RCRA Facility Investigation Report
For
Site FH-028 (Lake B)

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

Under Contract Number
DACA63-96-D-0021

Prepared by
Science Applications International Corp.
4900 Blazer Parkway
Columbus, OH 43017

May 24, 2000

EXECUTIVE SUMMARY

The purpose of the Resources Conservation and Recovery Act (RCRA) Facility Investigation (RFI) is to characterize the potential source, nature and extent of contamination, and to evaluate risks to humans and the environment from operations at the Solid Waste Management Unit (SWMU). This report describes the collection of samples, analysis of data from FH-028 (Lake B), one of 35 SWMUs that are the subject of a RFI at Fort Hood, Texas, and the findings and conclusions from the evaluation of the RFI.

FH-028 is a surface impoundment that receives wash water from vehicle wash racks and storm water runoff from six motor pools along North Avenue and from nearby areas on the Main Cantonment. These sources are suspected to contribute contaminants to surface water and sediment in Lake B and its system of drainage ditches. The RFI consisted of sampling of surface water and sediment in both the ditches and Lake B, and of soils in ditches and beneath the sediment at Lake B. The samples were analyzed for eight RCRA metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). A total of 13 soil, 11 surface water, and 12 sediment samples were collected for the FH-028 investigation.

The sampling results were subjected to a two-part risk screening process according to guidance in the Texas Natural Resource Conservation Commission (TNRCC) Risk Reduction Standards (30 TAC 335 Subchapter S). First all results are compared to the RRS Number 1 values. The RRS Number 1 screen compares sample results either to facility-wide background criteria or analytical practical quantitation limits (PQLs). At FH-028, metals and several organic compounds were detected above PQLs or background concentrations in sediment, soil, and surface water. The constituents that exceed the RRS Number 1 are then screened against RRS Number 2. The RRS Number 2 screen compares the analytical results to health-based standards that are considered protective of human health and the environment.

In soils, sediments, and surface waters at FH-028, metals, VOCs, or SVOCs were present above the soil to groundwater cross-media RRS Number 2 screening criteria. However, after evaluation of the analytical results in the different media, the concentration of each constituent, the potential for migration of the constituents, and the ubiquitous presence of metals and PAHs, it was concluded that FH-028 poses no risk to human health or the environment.

Due to the ubiquitous nature of metals, the heterogeneity of metal concentrations, and the preference for metals to adsorb, the exceedances of soil and sediment concentrations above the RRS Number 2 concentration for the soil to groundwater cross media criteria is expected to be conservative. Investigations of similar units at Fort Hood (FH-027 and FH-029) have shown comparable resulting concentrations. Based on the magnitude and frequency of the detected constituents, it was determined that the concentrations present at the site were not indicative of a release to the environment. Additionally, due to the low potential for leaching or migration from soils into groundwater, a comparison of concentrations to RRS Number 2 residential soil criteria rather than the soil to groundwater cross media criteria indicates the concentrations are below those concentrations deemed protective of human health and the environment.

Metals including cadmium and lead, and SVOCs exceed the RRS criteria in four ditch water samples. However, these concentrations diminish to non-detectable quantities by the time the effluent reaches and exits Lake B. Surface water samples from Lake B had no constituents that exceeded the RRS Number 2 criteria. These results indicate that the drainage ditches are operating as intended by removing contaminants prior to discharge from Lake B through the NPDES-permitted outfall.

An evaluation of surface water and sediment results indicates that concentrations of contaminants that exceed risk criteria are caused by ongoing activities along North Avenue and nearby roadways. These sources will continue to cause contamination of primarily PAHs until Fort Hood is closed. There appears to be no long-term adverse impact of surface water contaminants on the water quality in Lake B. Cadmium, lead, and SVOCs are found in both ditch and Lake B sediments, but have not migrated to the underlying soils. PAHs present in the ditch sediment and soils could come from a variety of sources including the wash rack and motor pool area activities, vehicle exhaust, and storm water runoff from asphalt surfaces and roadways. These sources are not unique to FH-028.

There being no release of contaminants from Lake B via the surface water pathway or through leaching to in-situ soil, and no current exposure to Lake B sediments, no further action is warranted for FH-028.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i
TABLE OF CONTENTS ii
LIST OF TABLES iii
LIST OF FIGURES iii
LIST OF APPENDICES iii
ACRONYMS iv

1.0 INTRODUCTION 1
1.1 BACKGROUND 1
1.2 SCOPE AND OBJECTIVES 2
2.0 ENVIRONMENTAL SETTING 3
2.1 PHYSIOGRAPHIC SETTING 3
2.2 GEOLOGIC CONDITIONS 3
2.2.1 Bedrock 3
2.2.2 Unconsolidated Materials 4
2.3 CHARACTERIZATION OF SOILS 4
2.4 CHARACTERIZATION OF CLIMATE 4
3.0 UNIT CHARACTERIZATION 5
4.0 CHARACTERIZATION OF UNIT CONTAMINATION 6
4.1 TECHNICAL APPROACH 6
4.1.1 Surface Water Sampling 7
4.1.2 Sediment Sampling 7
4.1.3 Soil Sampling 8
4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS 8
4.2.1 Sediment Analytical Results 9
4.2.2 Surface Water Analytical Results 9
4.2.3 Soil Analytical Results 10
4.2.4 Disposition of Investigation Derived Waste (IDW) 10
4.3. BACKGROUND CHARACTERIZATION AND COMPARISONS WITH WASTE UNIT SAMPLING RESULTS 10
5.0 SCREENING ANALYSIS 13
6.0 INVESTIGATION ANALYSIS 15
6.1 DATA QUALITY ASSURANCE/QUALITY CONTROL 15
6.2 INVESTIGATION RESULTS 15
6.2.1 Evaluation of Metal Results 16
6.2.2 Evaluation of Organic Compound Results 17
7.0 CONCLUSIONS AND RECOMMENDATIONS 18
8.0 REFERENCES 20

LIST OF TABLES

Table 4.1 FH-028 Analytes Detected in Sediment Above Practical Quantitation Limits (PQLs)
Table 4.2 FH-028 Analytes Detected in Surface Water Above Practical Quantitation Limits (PQLs)
Table 4.3 FH-028 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)
Table 4.4 Statistical Analysis of 95% UTL Concentrations Background Soils
Table 5.1 FH-028 Sediment Analytes Above Screening Criteria
Table 5.2 FH-028 Surface Water Analytes Above Screening Criteria
Table 5.3 FH-028 Soil Analytes Above Screening Criteria

LIST OF FIGURES

Figure 1.1 Fort Hood Vicinity Map
Figure 1.2 Fort Hood Installation Map
Figure 2.1 Topography of Main Cantonment and Vicinity
Figure 3.1 Photographs of FH-028
Figure 3.2 Photographs of Ditches - Lined and Unlined
Figure 4.1 FH-028 Surface Water and Sediment Sampling Locations and Results Above Screening Criteria
Figure 4.2 FH-028 Soil Sampling Locations and Results Above Screening Criteria
Figure 4.3 Background Sampling Locations

LIST OF APPENDICES

A: FH-028 Sediment and Surface Water Analytical Results and Validated Data
B: Fort Hood RFI Background Soils Data
C: Fort Hood RFI Background Soil Boring Logs
D: Statistical Calculations
E: FH-028 Summary of Screening Results
F: PAH Position Paper

ACRONYMS

AA	Atomic absorption
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
NPDES	National Pollutant Discharge Elimination System
PAH	Polynuclear Aromatic Hydrocarbons
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 Resource 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 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, former and inactive underground storage tank locations, active wash rack/sewer systems, effluent ponds, and a sanitary sewer network. An installation map is shown in Figure 1.2.

This report describes the collection and analysis of data from SWMU FH-028, Lake B, one of 35 SWMUs investigated during the RFI conducted November 1996 through March 1998. FH-028 is located north of the intersection of South Range Road and Murphy Road.

1.1 BACKGROUND

FH-028 has a surface area of approximately two acres and is approximately 4 feet deep. The wash rack and storm water systems discharging to Lake B have been in operation since 1979. Currently, 6 of the 45 wash racks on the main cantonment have an effluent discharge to Lake B via the drainage ditches. Water discharged into Lake B is a combination of wash-water generated during the cleaning of military vehicles and storm water runoff from roadways and pavement in the motor pools. Lake B drains a watershed area of 90 acres during storm events. Wash-water from the vehicle wash racks passes through oil/water separators and into lined and unlined ditches that flow into Lake B.

Lake B discharges into an unnamed tributary of Bull Run Creek, Bull Run Creek discharges into Cowhouse Creek, which in turn discharges into Belton Lake, east of Fort Hood. Lake B discharges in all months except the driest, June, July, and August. Lake B is surrounded by grasses and recreational use is prohibited.

1.2 SCOPE AND OBJECTIVES

The objective of the RFI at FH-028 was to determine if a release of hazardous constituents has occurred and to characterize the potential source and extent of contamination. This report assesses the nature of surface water and sediment contamination at Lake B and its drainage ditches and evaluates what, if any, corrective measures are needed.

The specific objectives of the investigation of FH-028 were as follows:

- determine the presence or absence of contaminants in the surface water and sediments along the drainage system upstream of and within Lake B;
- characterize the migration potential of the contaminants identified in the surface water and sediments along the drainage system and within Lake B;
- evaluate the potential human health risks associated with contaminants detected in surface water, sediments, and adjacent soils; and
- determine what, if any, corrective measures are needed to address contamination associated with SWMU FH-028.

The approach to the RFI included field sampling and laboratory analysis of surface water, sediment, and soils. The sampling and analysis program was conducted in accordance with the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995), the RCRA Facility Investigation Chemical Data Acquisition Plan and Addendum (USACE 1996). Additional sampling was performed in accordance with the TNRCC approved Work Plan modifications dated April 21, 1998 (SAIC 1998a).

2.0 ENVIRONMENTAL SETTING

The material presented in this section describes the physical characteristics of FH-028 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 the main cantonment of Fort Hood 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 940 ft above mean sea level (msl). SWMU FH-028 elevation is approximately 880 ft above msl.

The rivers, streams, and creeks that constitute the main surface water pathways at Fort Hood are shown on Figure 2.1. 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, downstream of 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-028 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.

The Walnut Formation is exposed in a gully northeast of Lake B. Lithologies include shell aggregates and a blue-gray fossiliferous limestone.

2.2.2 Unconsolidated Materials

Alluvial deposits of Quaternary age are present along stream valleys on the main cantonment, specifically along 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^{o} F. Below-freezing temperatures occur on an average of 23 days per year. The normal daily winter temperature ranges from 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^{o} F. The normal daily temperature range for summer is 75 to 95^{o} F. The average daily temperature in Killeen is 68.1^{o} 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. Severe weather in the form of heavy rain, hailstorms, and ice storms is common in the winter months.

3.0 UNIT CHARACTERIZATION

Lake B is a surface impoundment that receives wash-water from six vehicle wash rack and storm water runoff from motor pools along North Avenue. Lake B has provided a means for the collection and retention of oils and solids that were not retained in the oil/water separators at the motor pools. Effluent from the wash racks and motor pool areas pass through oil/water separators at each of these areas. Eight drainage ditches then transport the effluent from the motor pools to Lake B. Two of these ditches are lined with concrete and the other six are unlined. These ditches drain ninety acres of the main cantonment to Lake B.

Flow into Lake B is very irregular as a consequence of periods of inactivity at some motor pools and the long intervals without rainfall. Therefore it is characteristic for there to be no flow out of the motor pools for days or weeks, followed by days of significant flow. Lake B's holding capacity is calculated to be 748,000 gallons, which, when exceeded, discharges through an unnamed tributary to Bull Run Creek. In the driest months, low flow to Lake B may not exceed its holding capacity and no water is discharged from the lake. Flow from Lake B is recorded weekly in accordance with monitoring requirements for the main cantonment's National Pollutant Discharge Elimination System (NPDES) permit. Average daily and daily maximum flow (in millions of gallons per day) has been documented for Lake B.

Lake B, as well as all other surface water SWMUs on the main cantonment, discharges ultimately to Belton Lake, which is used as a source of the region's public drinking water supply. Photographs of Lake B are shown in Figure 3.1. Photographs of lined and unlined ditches are presented in Figure 3.2.

Little was known about the exact composition of wastes in the effluent from wash racks and in storm water runoff from the motor pools prior to this RFI. Vehicle operators use the tank wash racks prior to returning vehicles to the motor pools. However, washing of the tanks and other military vehicles removes residues of fuels (such as JP-8, used as tank fuel), fuel by-products, oils and greases, metal shavings, paint, and soil particles. Oils, hydraulic fluids, and other petroleum-based products may be spilled or dripped onto motor pool pavement in small quantities. As a consequence, these components could be present in surface water and sediments in both drainage ditches and Lake B. However, the operation and maintenance of the oil/water separators includes routine/scheduled removal of oils and/or sediments from the units, which prevent the discharge of these components into the ditches. As required under the NPDES permit for the main cantonment, water from Lake B is sampled weekly and analyzed for indicator parameters such as chemical oxygen demand, biochemical oxygen demand, total suspended solids, oils and greases, and pH. No exceedances of the permit limits have been noted.

4.0 CHARACTERIZATION OF UNIT CONTAMINATION

The following sections describe the results of field activities and analytical procedures performed to achieve site specific objectives defined in Section 1.2 of this report.

4.1 TECHNICAL APPROACH

Twelve surface water and six sediment samples were collected in November and December 1996 in the locations specified in the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995). An additional five sediment samples were collected in the ditches that discharge directly into Lake B (see Figure 4.1) in September 1997 to acquire a sufficient number of samples for a statistically representative data set. In March, 1998 soil samples were collected at five locations in the ditch adjacent to Range Trail Road (see Figure 4.2) to determine if any contamination had migrated into the native soils and to characterize the extent of potential contamination. All surface water, sediment, and 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. A site map and sampling locations are shown in Figures 4.1 and 4.2.

All samples were analyzed for volatile organic compounds (VOCs), semi-volatile organics (SVOCs), and metals. All sediment samples were also tested for moisture content to ensure that all analyses are reported on a dry weight basis. Naphthalene was detected in samples by the laboratory by SVOC and VOC analyses. Based on best professional judgement, it was determined to use the SVOC naphthalene results and not the VOC naphthalene results for a sample, because naphthalene has traditionally been analyzed as an SVOC.

Contaminant concentrations are influenced by the sampling location, due to the chemical nature of the contaminant and the method by which the contaminant is deposited in the sediment (i.e., spills, leaks, and atmospheric deposition). Concentrations of constituents in surface water or sediments may differ greatly from underlying or adjacent soil levels due to the transient and dynamic properties of these media. These factors were considered in selecting the sample locations.

Surface water constituents evaluated in drainage ditches for this RFI are likely to be representative of transient conditions in any given motor pool or wash rack area for a given day. Residence time for surface water in ditches is almost zero, and the composition of the effluent water may change depending on what cleaning activities are being performed in the wash rack areas. Sediments in drainage ditches may also possess chemical constituents only from the recent past, since residence time for sediments in the ditches is likely to be short. Analyses of Lake B's water and sediment, however, may provide information on chemical constituents that have accumulated over a much longer time interval.

In accordance with the TNRCC approved modifications to the Work Plan (SAIC, 1998a), the soil under FH-028 (Lake B) and FH-027 (Lake A) and from nearby ditches were sampled to provide data necessary to characterize and evaluate the potential human health and environmental risks associated with contaminants at these similar sites.

4.1.1 Surface Water Sampling

A total of twelve surface water samples were collected and analyzed at FH-028. Surface water was sampled from the ditches and Lake B in November and December, 1996. The locations of the sampling points are shown in Figure 4.1. Three surface water samples (SW110, SW111, and SW112) were collected from Lake B, and three (SW109, SW114, and SW115) were collected from the ditches where water was present. Six samples (SW101 through SW105 and SW108) were collected from the ditches immediately below the oil/water separators or in the ditches directly downstream from them. All samples were collected according to procedures discussed in Section 3.1 of the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995).

Surface water samples from Lake B were collected near the inlet (SW110) and outlet (SW112) of the lake, and from the midpoint (SW111) between the inlet and outlet. Lake water samples were collected at a depth of at least six inches below the water surface. Water was sampled by submerging the sample container, then removing the container cap and allowing the container to fill.

Surface water samples were also collected from the outfalls of the oil/water separators and from each of the unlined ditches where water was present. All water samples from the ditches were collected by submersion of the sample containers a minimum of 6 inches below the water surface when possible and then taking off the cap and allowing the bottle to fill. When water depth was not sufficient to allow the container to be submerged, then the water was dammed to concentrate the flow to a central collection point. The sample container was then submerged or the flow of the water was directed into the bottle. The samples were analyzed for volatile organic compounds, semi-volatile organic compounds, and metals.

4.1.2 Sediment Sampling

A total of eleven sediment samples were collected at FH-028. Three ditch sediment samples (SD109, SD113, and SD114) and three Lake B sediment samples were collected in November, 1996. In September, 1997 five additional ditch sediment samples were collected at SD116 through SD120 in order to ensure a statistically representative data set for the SWMU. Sediment samples were collected after any surface water samples from the same locations were collected, to prevent suspension of sediment particles into the water column that could potentially be included in the water sample. Sampling began at the sampling point furthest downstream, and progressed upstream. This prevented cross-contamination between upstream and downstream sediment. Sediment samples were collected from a maximum depth of 12 inches below the sediment-water interface.

In Lake B a hand core sediment sampler was used to collect the sediment samples SD110, SD111, and SD112 during the initial sampling event, in November 1996. The ditch sediment samples were collected using stainless steel bowls and spoons. One discrete sample was collected from each location. Sediment collected downstream of each oil/water separator came from the unlined portions of the ditches to which they discharge.

4.1.3 Soil Sampling

A total of thirteen soil samples were collected at FH-028 in March 1998. Eleven soil samples were collected along the unlined ditch parallel to Range Trail Road (see Figure 4.2) from five locations (SB101 to SB105) and two soil samples were collected from beneath the sediment in Lake B at location SB106. One of the eleven ditch soil samples (SB113) was a replacement for another sample (SB102) that had a missed holding time for VOCs. This soil sampling was performed in response to an agreement between TNRCC, USACE, and Fort Hood. It was agreed that representative sampling would be conducted to determine if contamination has migrated into the natural material adjacent to the pond and ditches and to characterize the extent of potential contamination. If contamination is not found, then it could be concluded that the pond and ditches are functioning according to their intended purpose, which is to remove contaminants prior to discharge from the NPDES-permitted outfall.

Sediment and surface water analytical results from the ditch samples collected in 1996 and 1997 indicated that this particular location for soil sampling was receiving contaminated effluent from several motor pools and oil/water separators and represents a worst case condition. The five soil sample locations in the ditch were box-centered in the north-south flowing ditch between the Murphy Road culvert and Lake B. The center location (SB101) was positioned in the middle of the ditch. The other four sample locations (SB102 through SB105) were placed in a boxed arrangement upon the ditch embankment, surrounding the ditch-centered location (approximately 6 or 7 feet separation from the center and the corner locations). The soils were collected from beneath the sediment-soil interface (approximately 0 ft. to 1 ft. below surface of ditch sediment) and from 2 ft. to a maximum of 2.5 ft, in order to characterize both surface and subsurface soil contamination. Hand augers were used to collect discrete samples from both intervals. The soil from the target interval was placed in a stainless steel bowl and mixed using a stainless steel spoon. The mixed material was used to fill the sample jars.

The two soil samples were collected from beneath the sediment in Lake B at location SB106 on March 21, 1998, to determine the impact of the pond on the in-situ material below it. These soil samples were collected to provide data necessary to evaluate the potential human health risks associated with contaminants at the site and to characterize the potential lateral extent of contamination from the sediment to the underlying soils. Soil beneath the sediment was collected using a PVC pipe and stainless steel hand augers. Soil samples were collected from a maximum depth of 1.5 feet below the sediment-soil interface.

4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS

Analytical results for surface water, sediments, and soils at SWMU FH-028 are provided in their entirety in Appendix A. Tables 4.1, 4.2, and 4.3 summarize those constituents detected above practical quantitation limits (PQLs) for sediment, surface water and soil, respectively. Constituents detected above PQLs were screened against background and risk-based screening criteria as described in Section 4.3 and Section 5.0.

4.2.1 Sediment Analytical Results

The following inorganic constituents were detected in sediment at concentrations above PQLs: arsenic, barium, cadmium, chromium, lead, and selenium. Concentrations varied from 0.62 ppm cadmium in SD117 to 140 ppm barium in SD120. Arsenic, barium, cadmium, chromium, and lead were detected in every sample. Selenium was present in three samples. Arsenic, barium, cadmium, lead, and selenium occurred in concentrations greater than the background criteria for soils in ten ditch sediment samples: SD109, SD110, SD111, SD 112, SD113, SD114, SD116, SD118, SD119, and SD120.

VOCs were detected at nine sample locations. Only one location had more than three compounds detected (SD119). The locations that exhibited one, two, or three contaminants above PQLs are the following: SD109, SD110, SD111, SD112, SD113, SD114, SD116, and SD118. Acetone and/or toluene were the only VOCs detected at SD112 and SD114, and these compounds were also present at SD110, SD111, SD118, and SD119. These compounds are not related to any known activities at FH-028. Concentrations of VOCs range from 8 ppb 2-butanone at SD111 to 1500 ppb toluene in SD 118. SD 119 is the locus of the largest number of VOCs in FH-028 sediments, with 13 VOCs detected above PQL. This sample was collected at the confluence point for most of the ditches in the SWMU.

SVOCs were detected at the following locations: SD109, SD111, SD118, and SD119. Bis(2-ethylhexyl)phthalate was detected in these four samples, at concentrations ranging from 660 ppb at SD111 to 13,000 ppb at SD119. Pyrene was the only PAH detected in sediments, and occurred in only one sample (SD109) at 400 ppb. 4-Methylphenol and di-n-octyl phthalate were each detected once. 4-Methylphenol was present at a concentration of 1,300 ppb in SD118; di-n-octyl phthalate was present at 7,000 ppb in SD119. No other SVOCs were detected above PQLs.

4.2.2 Surface Water Analytical Results

Inorganic constituents were detected above PQLs in surface water samples SW101 through SW105, SW108 through SW112, SW114, and SW115. Barium was present in all of these surface water samples. Barium concentrations ranged from 38.5 at SW114 to 276 ppb at SW101. Cadmium was present in nine of these samples, at concentrations ranging from 0.62 ppb at SW112 to 8.6 ppb at SW101. Chromium was present in eight of the above samples, at concentrations of 1.1 to 18.6 ppb. This maximum concentration came from SW110. Lead occurs in five samples, from 3.3 ppb at SW115 to 86 ppb at SW101. Arsenic was detected in three samples, from 2.6 ppb in SW112 to 4.2 ppb in SW108. Mercury was detected once, at SW112, at 0.53 ppb.

Seven VOCs were detected above PQLs in surface water samples. These compounds are 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m,p-xylene, o-xylene, 4-methyl-2-pentanone, acetone, and 2-butanone. Concentrations ranged from 6 ppb 4-methyl-2-pentanone at SW108 to 76 ppb 1,2,4-trimethylbenzene at SW103. No VOCs were detected in SW104, SW109, SW11, SW112, or SW114. The samples in which more than one VOC was detected above PQLs are SW101, SW102, SW103, SW105, and SW115.

The SVOCs found in surface water above PQLs are the following: bis(2-ethylhexyl)phthalate, 2-methylnaphthalene, naphthalene, and phenol. Bis(2-ethylhexyl) phthalate was detected in SW101 (62

ppb). 2-methylnaphthalene was detected in SW103 (11 ppb) and SW105 (13 ppb). Naphthalene was detected in SW105 (16 ppb). Phenol was detected at SW108 (12 ppb). No other SVOCs were present in surface water.

4.2.3 Soil Analytical Results

Twelve soil samples from the six locations exhibited inorganics in concentrations above analytical detection limit. Arsenic, barium, cadmium, chromium, lead, mercury, and silver were all detected in at least one sample. Concentrations of metals varied from 0.33 ppm mercury at SB113 (subsurface sample) to 78.9 ppm barium at SB103. Of the inorganics with concentrations above detection limits in soils, there were 12 occurrences of arsenic, barium, cadmium, chromium and lead, and one occurrence of mercury and silver.

VOCs detected in the soils above PQLs are limited to acetone at SB106 (470 and 610 ug/kg), methylene chloride at 10 ug/kg in SB101 (subsurface), and chlorobenzene at 13 ug/kg in SB102 (subsurface). Acetone and methylene chloride are not known to be associated with any known activities at FH-028.

SVOCs were present above PQLs in both surface and subsurface soils at SB101. At SB102 and SB104, SVOCs were present only in the surface soils. Concentrations of these SVOC compounds (predominantly PAHs) range from 430 ug/kg phenanthrene at SB104 to 6,200 ug/kg bis(2-ethylhexyl)phthalate at SB102. PAHs present in the soil may represent the long-term deposition of exhaust particulates from diesel-burning military vehicles traversing North Avenue. Near roadways PAHs are relatively ubiquitous. A paper presenting PAH studies and the PAHs found at FH-028 are presented in Appendix F.

4.2.4 Disposition of Investigation Derived Waste (IDW)

A small amount of IDW was generated from the decontamination of sampling equipment for sampling at FH-028. Sampling equipment was rinsed in the field of any excess sediment and then thoroughly decontaminated at the field trailer. The IDW generated from the decontamination process in the field trailer was combined with the decontamination waste from other SWMUs for the sampling equipment. This IDW was segregated into three types of waste: (1) potable wash/rinse water, (2) nitric acid/deionized water rinse, and (3) dilute methanol waste. Each waste stream was stored in containers in an accumulation area in the SAIC compound. All containers were clearly identified with Department of Transportation (DOT) - approved labels containing the drums' contents and the dates they were put into service. Drums were staged in the SAIC compound pending disposition. All IDW determined to be potentially hazardous were delivered to the Fort Hood Directorate of Public Works (DPW) Classification Unit with the accompanying characterization data.

4.3 BACKGROUND CHARACTERIZATION AND COMPARISONS WITH WASTE UNIT SAMPLING RESULTS

In order to characterize naturally occurring constituents in soils at Fort Hood, background samples were located and collected at 10 separate locations within the facility boundaries in the north, west,

and main cantonments. Sampling locations are believed to be outside the influence of past or current industrial and/or waste activities at the facility. The general background sampling locations are presented in Figure 4.3. Background soils data and soil boring logs are presented in Appendices C and D, respectively. The background criteria for soils are applied to all SWMU soil and sediment samples.

Samples were analyzed for the following metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. There were only 40 valid background sample results for selenium due to quality assurance/quality control (QA/QC) problems with the selenium data. A discussion of the data QA/QC is presented in Section 6.1. Mercury, selenium, and silver were not detected in any of the background surface soil samples. Mercury was detected in only 1 of 43 subsurface soil samples and selenium in 2 of 40 background subsurface samples. Silver was not detected in any background subsurface soil samples.

Two statistical methods presented in the RFI Work Plan can be used to determine if there is a statistically significant difference between background soil concentrations and the concentrations of metals detected in SWMU samples. The flow chart from the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995), used for the statistical evaluations, is provided in Appendix D. Background statistical calculations were determined by combining metals results from surface soils (0-2 ft) and subsurface soils (>2 ft) into one background data set. The statistical methods used to evaluate the background soil results are presented in Section 6 of the Final RCRA Facility Investigation Work Plan (USACE 1995). The methods include (1) a 95% upper tolerance limit (UTL) calculation and (2) an overall data set mean background concentration statistical test.

The primary statistical method for screening data is to compare SWMU data to the respective background 95% UTL values. The 95% UTL is an estimate of the 95th percentile of the population of background concentrations, such that, with a high degree of confidence, 95% of all background concentrations would be less than the UTL value. Results of the 95% UTL calculation are presented in Table 4.4. For inorganic parameters where there were fewer than 50% detects, and the distribution was neither normal nor lognormal, the maximum detected concentration was used in place of the 95% UTL. For inorganic parameters where there were no detects, the PQLs were used in place of the 95% UTLs as the background comparison value. The 95% UTL background values for surface and subsurface soils were used as the primary background screening criteria for inorganics. Appendix D contains spreadsheets of the Shapiro Wilk test on the background data for distribution, and results of the 95% UTL calculations for the background data.

If a metal was detected in sediment or soil at FH-028 at a concentration greater than the 95% UTL soil background value, a second statistical method was performed to compare the data set to the background value. The second statistical method to be used is either a mean comparison using the t-test, or the Wilcoxon (Mann-Whitney) Test. The use of these tests is dependent on the distribution of the data set. The t-test is to be used on data sets that have a normal distribution or that can be transformed to a normal distribution. According to the RFI Work Plan (USACE 1995), if the data set is not normally distributed and the t-test is not appropriate, a nonparametric method, the Wilcoxon Test, is to be used to test the difference in the background versus the data set. The flow chart from the RFI Work Plan (USACE 1995) used for the statistical evaluations is provided in Appendix D. Results of calculations for the 95% UTLs, means, standard deviations, and the Mann-Whitney (Wilcoxon) Test for FH-028 data are presented in Appendix D.

Arsenic, cadmium, chromium, lead, and mercury were detected in sediment or soil at FH-028 at concentrations greater than the 95% UTL soil background concentration. Further statistical analysis was performed for arsenic, cadmium, chromium, and lead; however, due to a lack of detected values in the background data set for mercury no further statistical analysis was performed for this metal. The Wilcoxon Test for cadmium and lead detected at FH-028 in sediment samples resulted in absolute Z values of 5.03 and 4.50, respectively, versus the critical Z value of 1.645 for a one-tailed test. This indicates there is a statistical difference between the background cadmium and lead data and FH-028 cadmium and lead data in sediments. The Wilcoxon Test for arsenic, cadmium, chromium, and lead detected at FH-028 in soil samples resulted in absolute Z values of 0.89, 4.95, 2.98, and 3.61, respectively, versus the critical Z value of 1.645 for a one-tailed test. This indicates there is a statistical difference between the background and FH-028 soil results for cadmium, chromium, and lead, but not arsenic. The ubiquitous nature of metals and the heterogeneity of analytical results in sediments/soils can explain why cadmium, chromium, and lead are present and not really different than background data or results across the site even though statistically different.

5.0 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. The TNRCC RRSs Number 1 and Number 2 have been used to screen the data generated at FH-028 to determine whether or not constituents are present at the site at concentrations which may warrant further investigation. The comparisons to TNRCC criteria are discussed in this section and summarized in Tables 5.1, 5.2, and 5.3.

Risk reduction standards (RRSs) Number 1 are defined as background concentrations or analytical PQLs, whichever are greater. The TNRCC RRSs Number 1 are used to determine if there has been a release of hazardous constituents from the site. The RRS Number 1 criteria are the facility wide 95% UTL soil background values, for metals (except for mercury, selenium, and silver, which were not detected in background soils) or the PQLs for organic constituents or metals not detected in background samples. In order to determine whether there has been a potential release at FH-028, sediment and soil sample results were first compared to the background concentration levels (95% UTLs or PQLs) for combined surface and subsurface soils (as presented in Section 4.3). Generally, metals detected above background levels are considered a potential release from the unit and detection of an organic constituent above the PQL for the analytical method is also considered a potential release. In surface water, all detections above PQLs are considered a potential release since there are no background values for comparison. In order to determine whether or not the metals and organic compounds detected at FH-028 warrant further action, sample results that exceeded the RRS Number 1 criteria were screened against the RRS Number 2 criteria.

RRSs Number 2 are health-based standards and criteria that are deemed protective of human health and the environment. For soils and sediments, RRSs Number 2 are based on an ingestion of sediment/soil and inhalation of particulates and volatiles pathway and are evaluated for a soil-to-groundwater cross-media protection pathway. All sediment and soil samples (including the soil from beneath Lake B and the ditch at Range Trail Road) were compared to the background soil criteria for metals, and the 30 TAC 335 Industrial Soil to Groundwater Cross Media criteria. For surface water, the RRS Number 2 criteria are the 30 TAC 335 Groundwater Criteria.

Tables 5.1, 5.2, and 5.3 present a summary of constituents that exceed the RRS Number 1 or RRS Number 2 comparisons for sediment, surface water, and soil, respectively. Complete results of the screening analysis are presented in Appendix E. Figures 4.1 and 4.2 show all analytical results above the screening criteria for each environmental medium.

In Lake B sediments, cadmium was present at concentrations that exceeded RRSs Number 1 and Number 2 values in two sediment samples (SD110 and SD111). 2-Butanone, acetone, bis(2-ethylhexyl)phthalate, and toluene were detected above RRSs Number 1, but did not exceed RRSs Number 2. Additionally, using best professional judgement the presence of these organic constituents in the samples would not be attributed to the sediments at the bottom of the lake, but are more likely the result of common laboratory contamination encountered during analysis.

In the drainage ditch sediments, cadmium and lead were present at concentrations greater than the background screening values in nine samples. Specific screening values were not available for p-isopropyltoluene, therefore, the RRS Number 2 value for toluene was used as a surrogate. Consequently, no VOC exceeded RRS Number 2 criteria. Bis(2-ethylhexyl)phthalate was the only SVOC present at concentrations above the screening criteria and is routinely detected in environmental samples as a common laboratory contaminant encountered during analysis.

In surface water, four samples had constituents in concentrations above the screening criteria. These were SW101, SW104, SW105, and SW108. SW101 through SW105 are not co-located with soil boring samples SB101 through SB105 (see Figure 4.2). All of these samples are located along the south side of North Avenue, where effluent from oil/water separators enters the ditches. Cadmium was present in four samples (SW101, SW104, SW105, and SW108) at concentrations above the screening criteria. Lead was present in SW101. Bis(2-ethylhexyl)phthalate was detected once above the screening values, at SW101 at a concentration of 0.062 mg/l. However, as previously stated, bis(2-ethylhexyl)phthalate is routinely detected in environmental samples as a common laboratory contaminant encountered during analysis. None of the surface water samples from Lake B had any contaminants in excess of the screening criteria.

In soil, samples from locations SB101 and SB102 exhibited several constituents at concentrations above the screening criteria. In SB101 samples, cadmium and mercury are present above the soil background concentration (RRS Number 1) or RRS Number 2 criteria. In SB102, cadmium and lead are elevated with respect to background screening criteria. All other detections above the screening criteria from these two locations are SVOCs. Most of these are PAHs, which have been found to be widely dispersed across industrial and other facilities by the combustion of petroleum products, open burning, incineration, etc. (see Appendix F). The maximum concentration of any PAH above screening criteria in soil is 4.6 ppm benzo(b)fluoranthene at SB102. Bis(2-ethylhexyl)phthalate was also present in both SB101 and SB102 surface soil samples at concentrations of 5.1 ppm and 6.2 ppm, respectively. These two samples were located in the center (SB101) and on the northeast corner (SB102) of the 25-ft square area centered on the drainage ditch. However, as previously stated, bis(2-ethylhexyl)phthalate is routinely detected in environmental samples as a common laboratory contaminant encountered during analysis. Soil samples collected from locations SB103, SB104, and SB105 exhibited the presence of cadmium and lead above the screening criteria. Additionally, the surface soil sample collected from SB104 contained six PAHs and SB105 contained chromium at concentrations above screening criteria.

Arsenic was the only constituent detected slightly above the screening criteria in soil from the in-lake location SB106. The results of the Mann Whitney Test (Wilcoxon Rank Test) that compares the arsenic soil environmental data set against the arsenic soil background data set indicates that there is no statistically significant difference in the arsenic results. Therefore, it is concluded that arsenic does not pose a risk to human or environmental health.

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-028 samples. According to the Work Plan, QA and QC samples were to be collected at a frequency of ten percent and analyzed along with the environmental samples. Field QC samples for FH-028 included trip blanks and equipment rinsate blanks. Field duplicate (QC) and split (QA) samples were also collected at FH-028. Quality control analyses such as matrix spikes, blanks, and laboratory control samples 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).

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.

The CQAR addressed concerns with the FH-028 data. One issue was that volatile method blanks were contaminated with methylene chloride, acetone, and naphthalene. A metal method blank was contaminated with selenium. These data may partially explain the presence of these analytes in several samples. However, based on the CQAR findings, data are usable and have met the project DQOs.

Data QA/QC procedures included an independent data validation of ten percent of the results for compliance of analyses to DQOs. All FH-028 data that were reviewed for data validation met project DQOs and are usable data as qualified, with the exception of selenium results for 10 background soil samples (2 surface and 8 subsurface). The selenium results were rejected due to unacceptable matrix spike recoveries and were excluded from background calculations. The rejected background data had no impact on the FH-028 results.

6.2 INVESTIGATION RESULTS

The data set for surface water, sediment, and soils at FH-028 and the quality of the data are useable to meet the objectives of the RFI as described in Section 1.2 of this report. A total of 13 soil, 11 sediment, and 12 surface water samples were collected and analyzed according to the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995) and subsequent guidance from

TNRCC and USACE-Fort Worth. The number and location of the samples were adequate to provide information regarding the presence/absence of contamination, the characterization of the vertical and lateral extent of potential contamination, risks to human and environmental receptors, and the boundaries of the suspected disposal area. Since ditch sediments and surface water are transient conditions, the lake sediment and soil sample results are indicative of the more permanent unit conditions. Therefore, the boundaries of the unit are the native soil directly under and adjacent to the lake and ditches, and the surface water that exits the lake. In the RFI report for FH-027, a unit similar to FH-028, and in the evaluation of the results at FH-028 the samples collected from beneath the sediment-soil interface of the FH-028 and FH-027 ponds showed no evidence that contaminants in the overlying sediment had migrated or impacted native soil.

The results of the analysis of lake sediment, ditch sediment, and the soils beneath Lake B and the Range Trail Road ditch indicate that metals including arsenic, cadmium, chromium, lead, and mercury were found in concentrations that exceed the screening criteria. SVOCs including PAHs in four soil samples and bis(2-ethylhexyl)phthalate in two soil and two ditch sediment samples were found in concentrations above screening criteria. Bis(2-ethylhexyl)phthalate was detected at low concentrations and low frequency in surface waters, sediments, and soils. P-isopropyltoluene was detected in two ditch sediment samples and has no chemical specific screening criteria, therefore, toluene was used as a surrogate compound for screening and evaluation purposes. These findings were discussed in Section 5.2 and presented in Tables 5.1 and 5.3 and Figures 4.1 and 4.2. An evaluation of the results from the risk screening process are presented in the following two sections.

6.2.1 Evaluation of Metal Results

The exceedances above screening criteria of metals are from nine ditch and pond sediment samples, five soil sample locations adjacent to the ditch at Range Trail Road, and one soil sample from beneath Lake B. Cadmium and lead were found in sediment and soil samples. Metals such as cadmium and lead are elements that are ubiquitous in soils at Fort Hood, and it is recognized there is an inherent heterogeneity of metals concentrations in soils resulting in highly variable analytical results. It appears such is the case for the detection of lead and cadmium in the sediment and soils at FH-028. In accordance with TNRCC guidance the RRS Number 2 values for a soil to groundwater cross media pathway were used for screening purposes. Professional judgment indicates these metals would not easily migrate into groundwater from soils and sediments and the comparison to soil to groundwater cross media RRS Number 2 screening criteria is a conservative approach. A comparison of the cadmium and lead concentrations found in FH-028 sediment and soil samples are far less than the TNRCC Industrial RRSs Number 2 for soils (1020 ppm for cadmium and 1000 ppm for lead) and the TNRCC Residential RRSs Number 2 for soils (137 ppm for cadmium and 500 ppm for lead). This indicates the concentrations of cadmium and lead in sediments and soils at FH-028 pose no risk to humans or the environment.

Mercury was detected in one ditch soil sample and arsenic was the only constituent detected above the screening criteria in the soil sample from the Lake B location below the sediment/soil interface. The low detected concentrations of mercury and arsenic coupled with the inherent heterogeneity of metals in soils indicate that one sample location with elevated concentrations for each element is not indicative of a release to the environment and pose no risk to human health and the environment. Only arsenic was detected with a concentration of 10.3 ppm in soil sample SB112 from beneath Lake

B compared to the screening criteria for arsenic of 9.2 ppm (background). Therefore, any potentially contaminated sediment in the pond does not have an impact on the quality of soils beneath Lake B.

Surface water from the ditches also exceeds risk criteria for metals. These occurrences come from the outfalls of oil/water separators along the south side of North Avenue and areas in the ditches immediately downstream of the outfalls. Surface water from the pond is not affected by these contaminants potentially entering the pond. The ditches are operating as intended by containing and removing contaminants prior to their discharge from Lake B. The results indicate that water exiting the pond is not posing a risk to human health or the environment via the surface water pathway.

6.2.2 Evaluation of Organic Compound Results

Several VOCs and SVOCs were detected in surface water, sediment, and soil at FH-028 at concentrations that exceed the RRS Number 1 and/or RRS Number 2 criteria for risk. P-isopropyltoluene was detected in two ditch sediment samples with a maximum concentration of 0.046 ppm and initially was the only VOC that exceeded RRSs Number 2 due to the lack of screening criteria. However, using the toluene RRS screening criteria (100 ppm) as a surrogate value for this compound indicates that there is no risk to humans or the environment. PAHs and bis(2-ethylhexyl)phthalate are the SVOCs detected at FH-028. The native soil samples collected in the ditch were contaminated with PAHs, which is a common finding considering the close proximity of the soil sample locations to heavily traveled roads. Additionally, the topography of the ditches indicates that this is a natural point for collecting runoff from the roadways. The PAHs identified in surface and subsurface soils at SB101, SB102, and SB104 most likely originate from the long-term deposition of particulate exhaust from diesel-burning military vehicles along North Avenue, Murphy Road, and Range Trail Road. As stated in a PAH position paper attached to this document as Appendix F (SAIC 1998b), PAHs are ubiquitous in surface soils as they are common products of the combustion of fossil fuels and other organic matter. Field notes during this RFI document a high volume of such traffic in the SWMU at the time these samples were collected. Because vehicle traffic is an ongoing and routine phenomenon at FH-028, PAH deposition of airborne particulates to soils is likely to continue indefinitely, until Fort Hood is closed.

The other SVOC besides the PAHs in sediments and soils is bis(2-ethylhexyl)phthalate. Additionally, bis(2-ethylhexyl)phthalate was the only SVOC identified as exceeding TNRCC RRSs Number 2 in the surface water in the drainage ditches. Bis(2-ethylhexyl)phthalate is not known to be associated with activities at this SWMU, and it is known to be a common laboratory analytical artifact. As such it is not contributing to risk at FH-028. No organic compounds in the ditch surface water samples were detected above screening criteria in the surface water within Lake B; therefore, there is no risk to humans or the environment from Lake B surface water.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for unit FH-028 indicate the presence of detected concentrations of metals and organic compounds that most likely result from activities at the vehicle wash racks, and from storm water runoff from six motor pools along North Avenue. However, as discussed in Sections 6.2.1 and 6.2.2 the concentrations of metals and organic compounds at FH-028 do not pose a risk to human and environmental health. Consequently, no further action is needed at FH-028.

Surface water analyses indicate that most of the occurrences of VOCs, SVOCs, cadmium, and lead above RRS Number 2 criteria occur in the samples from the ditches along the south side of North Avenue, immediately below and downstream from the outfalls of oil/water separators and along the roadways. Since activities at the motor pools and wash racks and use of the roadways are ongoing, these potential sources for these constituents will remain until Fort Hood is closed. An evaluation of the results for the surface water samples collected in Lake B shows that the ditches are operating as intended since the water from Lake B exhibits no constituents at concentrations above the risk criteria. The results indicate that constituent concentrations in surface water is transient and surface water within and exiting Lake B poses no risk to human health or the environment via the surface water pathway.

Organic and inorganic compounds detected in ditch sediments at FH-028 could result from activities in the motor pools and vehicle wash racks that line North Avenue and storm water runoff from the nearby roadways. Ditch sediment results represent transient conditions due to movement with water flow, therefore, the lake sediment and soil sample results are more indicative of the more permanent conditions at FH-028. The predominate metals detected at FH-028 above the soil to groundwater cross media screening criteria are cadmium and lead in the ditch sediments that discharge to Lake B, and in Lake B sediments. As discussed in Section 6.2.1 the concentrations of cadmium and lead found at FH-028 are well below the RRS Number 2 values for industrial soils. Based on professional judgement, these metals would be expected to remain adsorbed to sediment and soils and not easily leach to groundwater. The use of the soil to groundwater cross media pathway RRS Number 2 values for screening is a conservative approach and the likelihood of migration from sediment or soils to groundwater is low. Bis(2-ethylhexyl)phthalate was the only SVOCs detected above the screening criteria and was only found in the ditch sediments. This is a common laboratory contaminant and was not found in the Lake sediment samples above RRSs Number 2 values.

The soil samples collected beneath the ditch immediately west of Range Trail Road exhibited PAHs, lead, cadmium, chromium, and mercury at concentrations exceeding the RRS Number 2 criteria. Mercury and chromium were each detected at low concentrations and at low frequencies that based on best professional judgement warrant no further action. Cadmium and lead were more frequently detected and concentrations of these constituents have been detected throughout FH-028 and Fort Hood. The PAHs were present in three surface soils and one subsurface soil, and reflect the deposition of particulate exhaust from the heavy military and civilian vehicle traffic along North Avenue, Murphy Road and Range Trail Road. As stated in the position paper attached to this document as Appendix F (SAIC 1998b), PAHs are ubiquitous in surface soils as they are common products of the combustion of fossil fuels and other organic matter. Field notes document a high volume of such traffic in the SWMU at the time these samples were collected. Because such traffic is an ongoing and routine phenomenon at Fort Hood, PAHs will continue to be deposited and present

at FH-028. No action should be taken pertaining to PAHs until Fort Hood or the nearby roadways are closed. Accordingly, we can conclude that the ditches and pond at FH-028 are a properly functioning treatment unit used to remove contaminants prior to discharge to the receiving stream.

The soil samples collected beneath Lake B exhibited no constituents in sufficient concentrations to pose a risk to human health or the environment. In Lake B, contaminants in sediments have not migrated to the underlying native soils through leaching or diffusion. There being no contaminant concentration above risk criteria from Lake B via the surface water pathway or through leaching to in-situ soils, and no current exposure to Lake B sediments, no further action is recommended for FH-028.

8.0 REFERENCES

Bureau of Economic Geology (BEGM). 1979. Geologic Atlas of Texas, Waco Sheet (map). University of Texas at Austin/Bureau of Economic Geology.

Science Applications International Corporation (SAIC). 1998a. Fort Hood RFI Additional Sample Tasks Letter to Ms. Deborah Perrin USACE-Fort Worth District. March 6, 1998.

SAIC. 1998b. PAH Position Paper.

30 Texas Administrative Code (TAC) 335. Industrial Solid Waste and Municipal Hazardous Waste, Subchapter K. Hazardous Substance Facilities Assessment and Remediation.

U.S. Army. 1992. "History of Fort Hood: The First Fifty Years 1942-1992." III Mobile Army Corps, 7 p. (leaflet).

U.S. Army. 1996a. Fort Hood 1996 Public Affairs Document. 72 p.

U.S. Army. 1996b. Fort Hood Command Information Summary, 2nd Quarter 1996. Public Affairs Office, 21 p. (leaflet).

United States Army Corps of Engineers (USACE). 1995. Final RCRA Facility Investigation Work Plan. 35 Solid Waste Management Units, Fort Hood, Texas. December 1995.

USACE. 1996. RCRA Facility Investigation Chemical Data Acquisition Plan and Addendum.

United States Department of Agriculture (USDA). 1985a. Soil Survey of Coryell County, Texas. Soil Conservation Service.

USDA. 1985b. Soil Survey of Bell County, Texas. Soil Conservation Service.

United States Environmental Protection Agency (USEPA). SW-846 Test Methods for Evaluating Solid Waste. Physical/Chemical. Second Edition, Rev. 0, September, 1986, and Third Edition, Rev. 1, November 1990.

USEPA. 1989. Guidance Document on the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA/530-SW-89-026.

Table 4.1 FH-028 Sample Identification and Analyses

Station	Sample ID	Matrix	Depth (ft)	Date Collected
SB101	28SB101	Surface Soil	0.0-0.5	03/18/1998
	28SB102	Surface Soil	1.5-1.8	03/18/1998
	28SB113	Surface Soil	1.3-1.5	03/31/1998
SB102	28SB103	Surface Soil	0.0-1.0	03/18/1998
	28SB104	Surface Soil	2.3-2.5	03/18/1998
SB103	28SB105	Surface Soil	0.0-1.0	03/18/1998
	28SB106	Surface Soil	2.3-2.5	03/18/1998
SB104	28SB108	Surface Soil	0.0-1.0	03/18/1998
	28SB109	Surface Soil	2.3-2.5	03/18/1998
SB105	28SB107	Surface Soil	0.0-1.0	03/18/1998
	28SB110	Surface Soil	2.0-2.3	03/18/1998
SB106	28SB111	Surface Soil	0.0-0.8	03/21/1998
	28SB112	Surface Soil	1.0-1.5	03/21/1998
SW101	28SW101	Surface Water	---	11/20/1996
SW102	28SW102	Surface Water	---	11/20/1996
SW103	28SW103	Surface Water	---	11/20/1996
SW104	28SW104	Surface Water	---	11/20/1996
SW105	28SW105	Surface Water	---	11/20/1996
SW108	28SW108	Surface Water	---	12/14/1996
SW109	28SD109	Sediment	---	11/16/1996
	28SW109	Surface Water	---	11/16/1996
SW110	28SD110	Sediment	---	11/16/1996
	28SW110	Surface Water	---	11/16/1996
SW111	28SD111	Sediment	---	11/19/1996
	28SW111	Surface Water	---	11/19/1996
SW112	28SD112	Sediment	---	11/16/1996
	28SW112	Surface Water	---	11/16/1996
SW113	28SD113	Sediment	---	11/16/1996
SW114	28SD114	Sediment	---	11/16/1996
	28SW114	Surface Water	---	11/16/1996
SW115	28SW115	Surface Water	---	12/16/1996
SW116	28SD116	Sediment	---	09/10/1997
SW117	28SD117	Sediment	---	09/10/1997
SW118	28SD118	Sediment	---	09/10/1997
SW119	28SD119	Sediment	---	09/10/1997
SW120	28SD120	Sediment	---	09/10/1997

Notes: 1. All samples were analyzed for VOCs, SVOCs, and metals.

Table 4.2 FH-028 Analytes Detected in Surface Water Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SW101	28SW101	--	Metals	Barium	276	0.30	ug/l
				Cadmium	8.6	0.50	ug/l
				Chromium	14.8	0.80	ug/l
				Lead	86	1.7	ug/l
			Semi-Volatile Organics	Bis(2-ethylhexyl)phthalate	62	10	ug/l
			Volatile Organics	1,2,4-trimethylbenzene	34	5	ug/l
				1,3,5-trimethylbenzene	17	5	ug/l
				m,p-Xylene	18	5	ug/l
				Naphthalene	22	5	ug/l
				o-Xylene	9	5	ug/l
SW102	28SW102	--	Metals	Barium	67.5	0.30	ug/l
				Cadmium	1.4	0.50	ug/l
				Chromium	12.7	0.80	ug/l
			Volatile Organics	1,2,4-trimethylbenzene	10	5	ug/l
				4-Methyl-2-pentanone	8	5	ug/l
SW103	28SW103	--	Metals	Barium	71.4	0.30	ug/l
				Cadmium	1.4	0.50	ug/l
			Semi-Volatile Organics	2-Methylnaphthalene	11	10	ug/l
			Volatile Organics	1,2,4-trimethylbenzene	76	5	ug/l
				1,3,5-trimethylbenzene	19	5	ug/l

Table 4.2 FH-028 Analytes Detected in Surface Water Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SW103	28SW103	--	Volatile Organics	4-Methyl-2-pentanone	8	5	ug/l
				m,p-Xylene	30	5	ug/l
				Naphthalene	43	5	ug/l
				o-Xylene	14	5	ug/l
SW104	28SW104	--	Metals	Barium	68	0.30	ug/l
				Cadmium	5.2	0.50	ug/l
				Lead	4.5	1.7	ug/l
SW105	28SW105	--	Metals	Barium	73.5	0.30	ug/l
				Cadmium	6	0.50	ug/l
			Semi-Volatile Organics	2-Methylnaphthalene	13	10	ug/l
				Naphthalene	16	10	ug/l
			Volatile Organics	1,2,4-trimethylbenzene	42	5	ug/l
				1,3,5-trimethylbenzene	8	5	ug/l
				Acetone	10	5	ug/l
				m,p-Xylene	25	5	ug/l
				Naphthalene	37	5	ug/l
				o-Xylene	13	5	ug/l
SW108	28SW108	--	Metals	Arsenic	4.2	2.5	ug/l
				Barium	264	0.30	ug/l
				Cadmium	12.9	0.50	ug/l
				Chromium	9.3	0.80	ug/l
				Lead	9 J	1.7	ug/l

Table 4.2 FH-028 Analytes Detected in Surface Water Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SW108	28SW108	--	Semi-Volatile Organics	Phenol	12	10	ug/l
			Volatile Organics	4-Methyl-2-pentanone	6	5	ug/l
SW109	28SW109	--	Metals	Barium	109	0.30	ug/l
				Cadmium	3.1 B	0.50	ug/l
				Chromium	5.7 B	0.80	ug/l
SW110	28SW110	--	Metals	Barium	127	0.30	ug/l
				Chromium	18.6	0.80	ug/l
			Volatile Organics	2-Butanone	14	5	ug/l
SW111	28SW111	--	Metals	Barium	42.7	0.30	ug/l
SW112	28SW112	--	Metals	Arsenic	2.6 B	2.5	ug/l
				Barium	52.6	0.30	ug/l
				Cadmium	0.62 B	0.50	ug/l
				Chromium	6.7 B	0.80	ug/l
				Lead	3.7	1.7	ug/l
				Mercury	0.53	0.10	ug/l

Table 4.2 FH-028 Analytes Detected in Surface Water Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SW114	28SW114	--	Metals	Barium	38.5	0.30	ug/l
				Chromium	1.1 B	0.80	ug/l
SW115	28SW115	--	Metals	Arsenic	3.2 B	2.5	ug/l
				Barium	40.3	0.30	ug/l
				Cadmium	3.7 B	0.50	ug/l
				Chromium	2.4 B	0.80	ug/l
				Lead	3.3	1.7	ug/l
			Volatile Organics	1,2,4-trimethylbenzene	72	5	ug/l
				1,3,5-trimethylbenzene	16	5	ug/l
				m,p-Xylene	24	5	ug/l
				Naphthalene	24	5	ug/l
				o-Xylene	11	5	ug/l

J - Indicates estimated value
B (Inorganics) - Value was less then the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

Table 4.3 FH-028 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB101	28SB101	0.0-0.5	Metals	Arsenic	3.5	0.4	mg/kg
				Barium	40.2 J	0.077	mg/kg
				Cadmium	0.73	0.064	mg/kg
				Chromium	7.8	0.09	mg/kg
				Lead	11.2 J	0.23	mg/kg
			Semi-Volatile Organics	Benzo(a)anthracene	2800	420	ug/kg
				Benzo(a)pyrene	2100	420	ug/kg
				Benzo(b)fluoranthene	2800	420	ug/kg
				Benzo(g,h,i)perylene	1000	420	ug/kg
				Benzo(k)fluoranthene	2000	420	ug/kg
				Bis(2-ethylhexyl)phthalate	5100	840	ug/kg
				Chrysene	3300	420	ug/kg
				Dibenz(a,h)anthracene	440	420	ug/kg
				Fluoranthene	5300	840	ug/kg
				Indeno(1,2,3-cd)pyrene	1300	420	ug/kg
				Phenanthrene	920	420	ug/kg
				Pyrene	4900	840	ug/kg
	28SB102	1.5-1.8	Volatile Organics	Methylene Chloride	10	6	ug/kg
	28SB113	1.3-1.5	Metals	Arsenic	3.5 J	0.26	mg/kg
				Barium	43.2	0.037	mg/kg
				Cadmium	0.45	0.037	mg/kg
				Chromium	7.1 J	0.12	mg/kg
				Lead	6.3 J	0.11	mg/kg
				Mercury	0.33	0.021	mg/kg
				Silver	0.24	0.12	mg/kg

Table 4.3 FH-028 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB101	28SB113	1.3-1.5	Semi-Volatile Organics	Benzo(a)anthracene	1100	390	ug/kg
				Benzo(a)pyrene	1300	390	ug/kg
				Benzo(b)fluoranthene	2000	390	ug/kg
				Benzo(g,h,i)perylene	840	390	ug/kg
				Benzo(k)fluoranthene	1300	390	ug/kg
				Bis(2-ethylhexyl)phthalate	580	390	ug/kg
				Chrysene	1600	390	ug/kg
				Fluoranthene	2000	390	ug/kg
				Indeno(1,2,3-cd)pyrene	940	390	ug/kg
				Phenanthrene	1100	390	ug/kg
				Pyrene	2100	390	ug/kg
SB102	28SB103	0.0-1.0	Metals	Arsenic	4.8	0.44	mg/kg
				Barium	78.9 J	0.085	mg/kg
				Cadmium	5.8	0.071	mg/kg
				Chromium	17.9	0.099	mg/kg
				Lead	43.3 J	0.26	mg/kg
			Semi-Volatile Organics	Benzo(a)anthracene	3100	470	ug/kg
				Benzo(a)pyrene	2800	470	ug/kg
				Benzo(b)fluoranthene	4600	470	ug/kg
				Benzo(g,h,i)perylene	1600	470	ug/kg
				Benzo(k)fluoranthene	3000	470	ug/kg
				Bis(2-ethylhexyl)phthalate	6200	940	ug/kg
				Chrysene	4500	470	ug/kg
				Dibenz(a,h)anthracene	660	470	ug/kg
				Fluoranthene	4500	470	ug/kg
				Indeno(1,2,3-cd)pyrene	2000	470	ug/kg
				Phenanthrene	780	470	ug/kg
				Pyrene	4300	470	ug/kg

Table 4.3 FH-028 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB102	28SB104	2.3-2.5	Metals	Arsenic	6	0.35	mg/kg
				Barium	30.2 J	0.068	mg/kg
				Cadmium	0.4	0.057	mg/kg
				Chromium	6.2 J	0.079	mg/kg
				Lead	3.4 J	0.2	mg/kg
			Volatile Organics	Chlorobenzene	13	6	ug/kg
SB103	28SB105	0.0-1.0	Metals	Arsenic	4	0.4	mg/kg
				Barium	70.6 J	0.078	mg/kg
				Cadmium	3.4	0.065	mg/kg
				Chromium	11.1 J	0.09	mg/kg
				Lead	26.7 J	0.23	mg/kg
	28SB106	2.3-2.5	Metals	Arsenic	4.4	0.38	mg/kg
				Barium	43.3 J	0.074	mg/kg
				Cadmium	0.63	0.062	mg/kg
				Chromium	7.1 J	0.086	mg/kg
				Lead	7 J	0.22	mg/kg
SB104	28SB108	0.0-1.0	Metals	Arsenic	6.1	0.39	mg/kg
				Barium	48 J	0.075	mg/kg
				Cadmium	2.9	0.063	mg/kg
				Chromium	11 J	0.088	mg/kg
				Lead	17.8 J	0.22	mg/kg

Table 4.3 FH-028 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB104	28SB108	0.0-1.0	Semi-Volatile Organics	Benzo(a)anthracene	460	400	ug/kg
				Benzo(a)pyrene	590	400	ug/kg
				Benzo(b)fluoranthene	840	400	ug/kg
				Benzo(k)fluoranthene	460	400	ug/kg
				Chrysene	750	400	ug/kg
				Fluoranthene	900	400	ug/kg
				Indeno(1,2,3-cd)pyrene	440	400	ug/kg
				Phenanthrene	430	400	ug/kg
				Pyrene	770	400	ug/kg
	28SB109	2.3-2.5	Metals	Arsenic	3.4	0.37	mg/kg
				Barium	45.9 J	0.072	mg/kg
				Cadmium	12.1	0.06	mg/kg
				Chromium	10.9 J	0.084	mg/kg
				Lead	22.5 J	0.21	mg/kg
SB105	28SB107	0.0-1.0	Metals	Arsenic	4.5	0.41	mg/kg
				Barium	56.9 J	0.079	mg/kg
				Cadmium	2.8	0.066	mg/kg
				Chromium	11.3 J	0.092	mg/kg
				Lead	22.8 J	0.24	mg/kg
	28SB110	2.0-2.3	Metals	Arsenic	3	0.36	mg/kg
				Barium	42 J	0.07	mg/kg
				Cadmium	1.6	0.058	mg/kg
				Chromium	138 J	0.081	mg/kg
				Lead	530 J	0.21	mg/kg

Table 4.3 FH-028 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB106	28SB111	0.0-0.8	Metals	Arsenic	4.6	0.38	mg/kg
				Barium	96.1	0.074	mg/kg
				Cadmium	0.21	0.062	mg/kg
				Chromium	12.5	0.086	mg/kg
				Lead	7.7	0.22	mg/kg
			Volatile Organics	Acetone	610 J	6	ug/kg
	28SB112	1.0-1.5	Metals	Arsenic	10.3	0.39	mg/kg
				Barium	41.1	0.075	mg/kg
				Cadmium	0.22	0.063	mg/kg
				Chromium	11.2	0.088	mg/kg
				Lead	7.2	0.23	mg/kg
			Volatile Organics	Acetone	470 J	6	ug/kg

J - Indicates estimated value

Table 4.4 Statistical Analysis of 95% UTL Concentrations
Background Soils

Analyte (units)	Mean	95% UTL	Maximum Detect	Results > PQL	Distribution
Arsenic (mg/kg)	4.3500	9.19	11.6	43/43	N
Barium (mg/kg)	30.19	157.3	155.0	43/43	L
Cadmium (mg/kg)	0.15	0.67	0.79	36/44	L
Chromium (mg/kg)	7.32	24.88	23.6	44/44	L
Lead (mg/kg)	5.77	19.0	33.20	44/44	L
Mercury (mg/kg)	0.0400	0.04*	0.04	1/44	D
Selenium (mg/kg)	0.345	0.44*	0.44	2/40	D
Silver (mg/kg)	0.218	**	ND	0/44	D

Results less than the detection limit were set to **2** the reported detection limit.
L-distribution most similar to lognormal.
N-distribution most similar to normal.
D-distribution not determined because fewer than five detects or less than 50% detects.
*UTL -maximum detected
** UTL not calculated - insufficient detects.
ND - Not Detected

Table 5.1 FH-028 Sediment Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
SW109	28SD109	--	Bis(2-ethylhexyl)phthalate	2.6	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Cadmium	3.9 J	mg/kg	Soil Background	0.67	mg/kg
			Lead	22.9 J	mg/kg	Soil Background	19	mg/kg
SW110	28SD110	--	Cadmium	1.9 J	mg/kg	Soil Background	0.67	mg/kg
SW111	28SD111	--	Cadmium	0.94	mg/kg	Soil Background	0.67	mg/kg
SW113	28SD113	--	Cadmium	0.76 J	mg/kg	Soil Background	0.67	mg/kg
SW114	28SD114	--	Cadmium	0.95 J	mg/kg	Soil Background	0.67	mg/kg
			Lead	21.1 J	mg/kg	Soil Background	19	mg/kg
SW116	28SD116	--	Cadmium	1.4	mg/kg	Soil Background	0.67	mg/kg
			Lead	24.1	mg/kg	Soil Background	19	mg/kg
SW118	28SD118	--	Cadmium	2.2	mg/kg	Soil Background	0.67	mg/kg
			Lead	19.3	mg/kg	Soil Background	19	mg/kg
SW119	28SD119	--	Bis(2-ethylhexyl)phthalate	13 B	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Cadmium	10.4	mg/kg	Soil Background	0.67	mg/kg
			Lead	25.2	mg/kg	Soil Background	19	mg/kg

Table 5.1 FH-028 Sediment Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
SW120	28SD120	--	Cadmium	1.3	mg/kg	Soil Background	0.67	mg/kg

J - Indicates estimated value
B (Inorganics) - Value was less then the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
B (Organics) - Constituent dtected in associated blank sample

Table 5.2 FH-028 Surface Water Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
SW101	28SW101	--	Bis(2-ethylhexyl)phthalate	0.062	mg/l	30 TAC 335 Groundwater	0.00608	mg/l
			Cadmium	0.0086	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Lead	0.086	mg/l	30 TAC 335 Groundwater	0.015	mg/l
SW104	28SW104	--	Cadmium	0.0052	mg/l	30 TAC 335 Groundwater	0.005	mg/l
SW105	28SW105	--	Cadmium	0.006	mg/l	30 TAC 335 Groundwater	0.005	mg/l
SW108	28SW108	--	Cadmium	0.0129	mg/l	30 TAC 335 Groundwater	0.005	mg/l

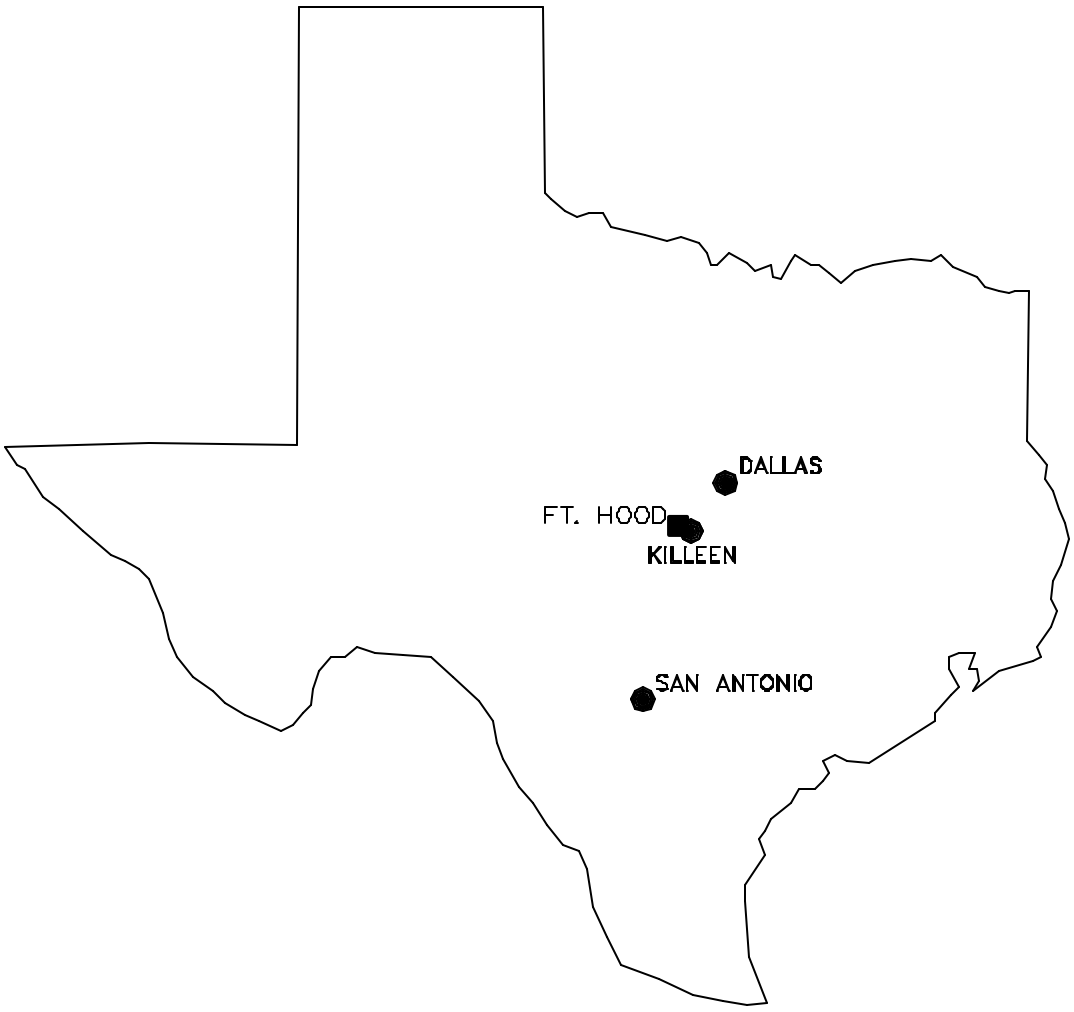
Table 5.3 FH-028 Soil Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
SB101	28SB101	0.0-0.5	Benzo(a)anthracene	2.8	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	2.1	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	2.8	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(g,h,i)perylene	1	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Benzo(k)fluoranthene	2	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Bis(2-ethylhexyl)phthalate	5.1	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Cadmium	0.73	mg/kg	Soil Background	0.67	mg/kg
			Dibenz(a,h)anthracene	0.44	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Indeno(1,2,3-cd)pyrene	1.3	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Phenanthrene	0.92	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
	28SB113	1.3-1.5	Benzo(a)anthracene	1.1	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	1.3	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	2	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(g,h,i)perylene	0.84	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Benzo(k)fluoranthene	1.3	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Indeno(1,2,3-cd)pyrene	0.94	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Mercury	0.33	mg/kg	30 TAC 335 Industrial Soil GWP	0.2	mg/kg
			Phenanthrene	1.1	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
SB102	28SB103	0.0-1.0	Benzo(a)anthracene	3.1	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	2.8	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	4.6	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(g,h,i)perylene	1.6	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Benzo(k)fluoranthene	3	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Bis(2-ethylhexyl)phthalate	6.2	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Cadmium	5.8	mg/kg	Soil Background	0.67	mg/kg
			Chrysene	4.5	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	3.92	mg/kg
			Dibenz(a,h)anthracene	0.66	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Indeno(1,2,3-cd)pyrene	2	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Lead	43.3 J	mg/kg	Soil Background	19	mg/kg

Table 5.3 FH-028 Soil Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
SB102	28SB103	0.0-1.0	Phenanthrene	0.78	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
SB103	28SB105	0.0-1.0	Cadmium	3.4	mg/kg	Soil Background	0.67	mg/kg
			Lead	26.7 J	mg/kg	Soil Background	19	mg/kg
SB104	28SB108	0.0-1.0	Benzo(a)anthracene	0.46	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	0.59	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	0.84	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(k)fluoranthene	0.46	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Cadmium	2.9	mg/kg	Soil Background	0.67	mg/kg
			Indeno(1,2,3-cd)pyrene	0.44	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Phenanthrene	0.43	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
	28SB109	2.3-2.5	Cadmium	12.1	mg/kg	Soil Background	0.67	mg/kg
			Lead	22.5 J	mg/kg	Soil Background	19	mg/kg
SB105	28SB107	0.0-1.0	Cadmium	2.8	mg/kg	Soil Background	0.67	mg/kg
			Lead	22.8 J	mg/kg	Soil Background	19	mg/kg
	28SB110	2.0-2.3	Cadmium	1.6	mg/kg	Soil Background	0.67	mg/kg
			Chromium	138 J	mg/kg	Soil Background	24.9	mg/kg
			Lead	530 J	mg/kg	Soil Background	19	mg/kg
SB106	28SB112	1.0-1.5	Arsenic	10.3	mg/kg	Soil Background	9.2	mg/kg

J - Indicates estimated value



U.S. ARMY
FORT HOOD, TEXAS

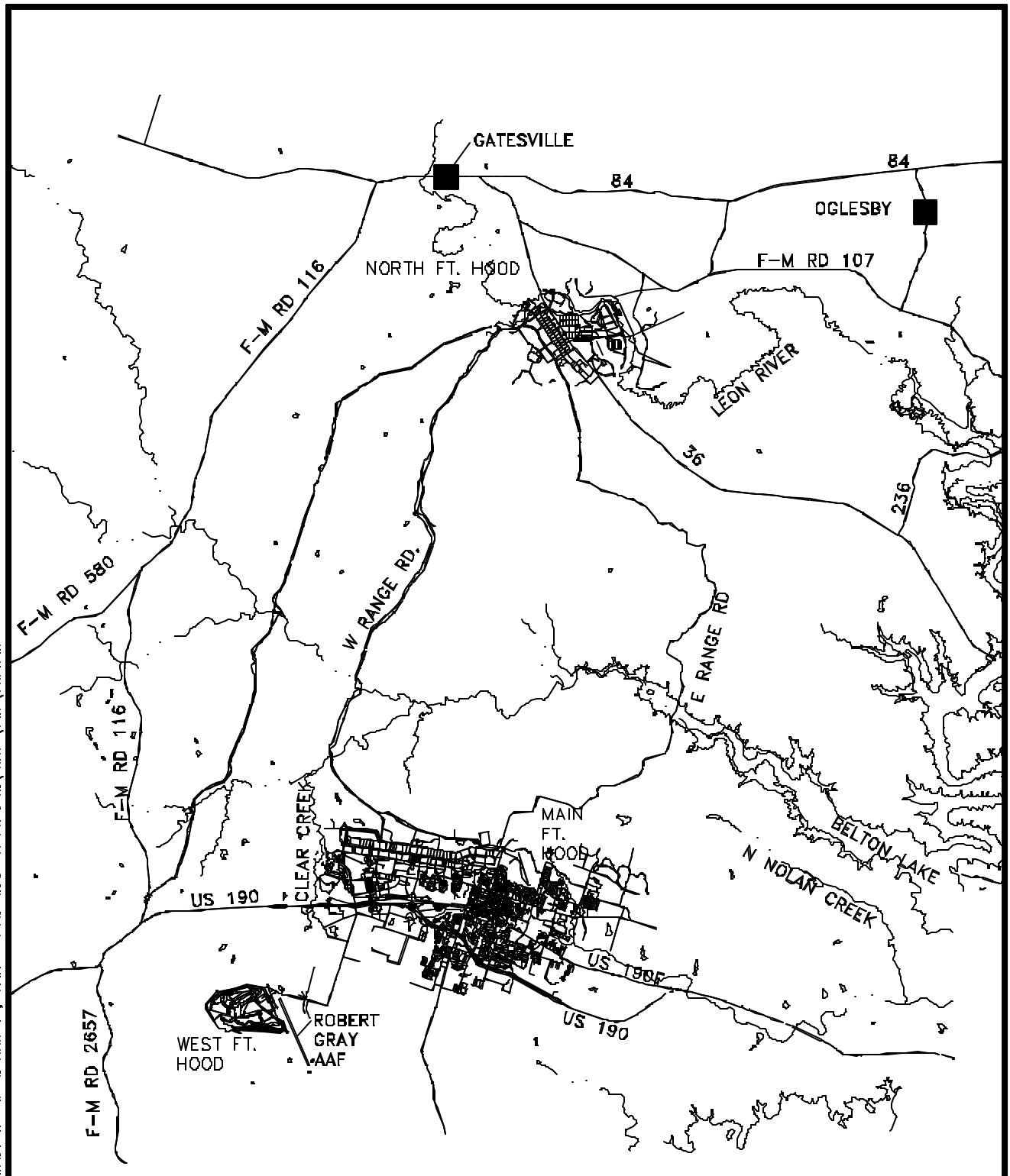
RCRA FACILITY INVESTIGATION

FORT HOOD
VICINITY MAP

Science Applications International Corporation — Columbus, Ohio

DRAWN	CHECKED	DATE	SCALE	PROJECT NO.	FIGURE NO.
SC			NO SCALE		1.1

NAME: S:\HOOD\FMLOCAT.DWG DATE: APR 19, 1999 TIME: 12:51 PM PCP: S:\HOOD\PCP\FRP.PCP



NAME: S:\HOOD\RFIFACIL.DWG DATE: MAR 01, 1999 TIME: 2:58 PM PCP: S:\HOOD\PCP\FRP.PCP

LEGEND

- MAJOR ROADS
- RIVERS/STREAMS
- WATER BODIES

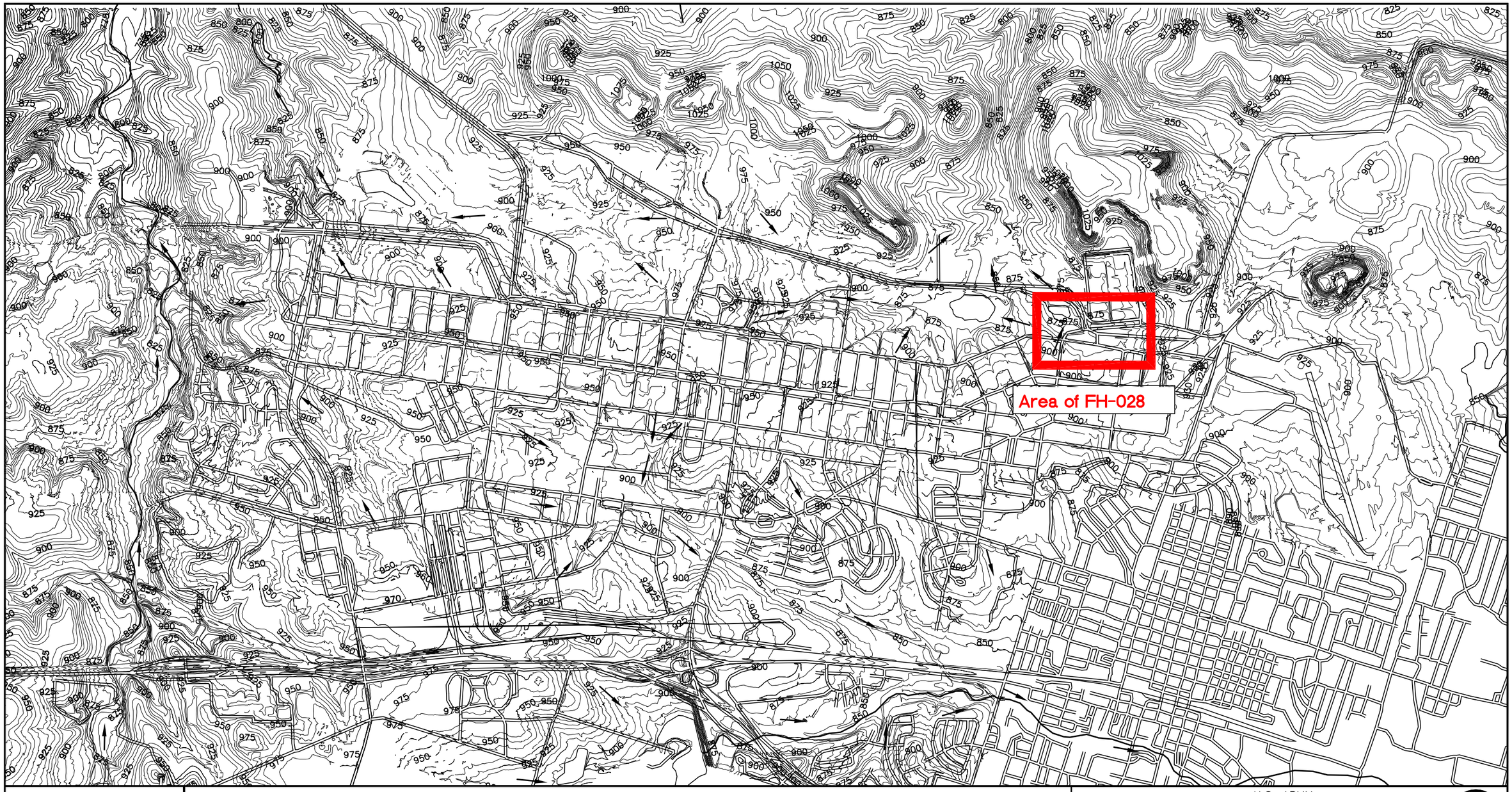
U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

FT. HOOD INSTALLATION MAP

Science Applications International Corporation — Columbus, Ohio

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



NAME: S:\HOOD\PI\28TOPO99.DWG DATE: APR 26, 2000 TIME: 12:02 PM PCP: S:\HOOD\PCP\FRP1.PCP

N
True
North

400 0 400 800
METERS

LEGEND

TOPOGRAPHIC CONTOUR (FT.)

DRAINAGE

SURFACE DRAINAGE FLOW

FH-028

U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

TOPOGRAPHY AND DRAINAGE OF MAIN FT. HOOD

SAIC Science Applications International Corporation Columbus, Ohio

DRAWN	CHECKED	DATE	SCALE	PROJECT NO.	FIGURE NO.
BW			AS SHOWN		2.1

Figure 3.1 Photographs of FH-028

T:\gov\coe\fthood\pictures\hoodpics\figs99\28fig3.1d.ppt

Figure 3.2 Photographs of Ditches-Lined and Unlined

NAME: S:\HOOD\P1\28SCGW99.DWG DATE: MAY 22, 2000 TIME: 1:09 PM PCP: S:\HOOD\PCP\FRP1.PCP

SOUTH RANGE ROAD

FH-028_SW-113
Cadmium 0.76 J MG/KG

TANK TRAIL

FH-028_SW-116
Cadmium 1.4 MG/KG
Lead 24.1 MG/KG

FH-028_SW-114
Cadmium 0.95 J MG/KG
Lead 21.1 J MG/KG

TANK WASH FACILITY
1962

FH-028_SW-112

W/L 866.1 LAKE W/L 866.1

FH-028_SW-110
Cadmium 1.9 J MG/KG

CC29 FH-028_SW-111
Cadmium 0.94 MG/KG

RANGE TRAIL ROAD

FH-028_SW-117

FH-028_SW-118
Cadmium 2.2 MG/KG
Lead 19.3 MG/KG

FH-028_SW-120
Cadmium 1.3 MG/KG

MURPHY ROAD

FH-028_SW-119
Bis(2-ethylhexyl)phthalate 13 B MG/KG
Cadmium 10.4 MG/KG
Lead 25.2 MG/KG

FH-028_SW-109
Bis(2-ethylhexyl)phthalate 2.6 MG/KG
Cadmium 3.9 J MG/KG
Lead 22.9 J MG/KG

CC

MURPHY ROAD
FH-028_SW-108
Cadmium 0.0129 MG/L

NORTH AVE

DSL STA W/BLDG

NORTH AVE
FH-028_SW-107

SOUTH ST

9132

OIL/WATER SEPARATOR

FH-028_SW-101
Bis(2-ethylhexyl)phthalate 0.062 MG/L
Cadmium 0.0086 MG/L
Lead 0.086 MG/L

WATER PUMP P

OIL/WATER SEPARATOR
FH-028_SW-105
Cadmium 0.006 MG/L

GASOLINE STA
9523

FH-028_SW-106

FH-028_SW-103

FH-028_SW-102

WATER PUMP P

OIL/WATER SEPARATOR
FH-028_SW-104
Cadmium 0.0052 MG/L

FH-028_SW-115

OIL/WATER SEPARATOR

GREASE RACKS
9120
9122
9124
9126
9128
9130

OIL HOUSE
9132

REPAIR SHOP
9122

UCOFT SITES
9126

CC28I

CC28H

DISPATCH OFFICE
9125

BUS STA
9129

SHELTER
9131

PARK AVE

9138
MP HELP GARAGE

9139

9TH ST

9503
9505
9507
9509
9511
9513
9515
9517
9519
9521

MOTOR REPAIR SHOP
9525

PATCH

DISPATCH OFFICE
9543
9544
SVG FM STA

PARK AVE

19TH ST

9541
OIL HOUSE
9536
9538

GREASE RACKS
9533
9535

MOTOR REPAIR SHOP
9535

OIL HOUSE
9533

15TH ST

9527
OIL HOUSE
9525

GREASE RACKS
9522

AIR SHOP

OIL/WATER SEPARATOR

GREASE RACKS
9559
9561
9563
9565
9567

AIR SHOP
9567

MOTOR REPAIR SHOP
9565

PATROL ROAD

9569

PATROL ROAD

FH-028

MAIN FT. HOOD LOCATION MAP

N
True North

50 0 50 100
METERS

LEGEND

825	TOPOGRAPHIC CONTOUR (FT.)
— · · — · · —	POND BOUNDARY
BLUE DENOTES	NOVEMBER 1996 SAMPLING
RED DENOTES	SEPTEMBER 1997 SAMPLING
▲	SURFACE WATER LOCATION
△	SEDIMENT LOCATION
✳	SURFACE WATER AND SEDIMENT LOCATION
⊙	OIL/WATER SEPARATOR

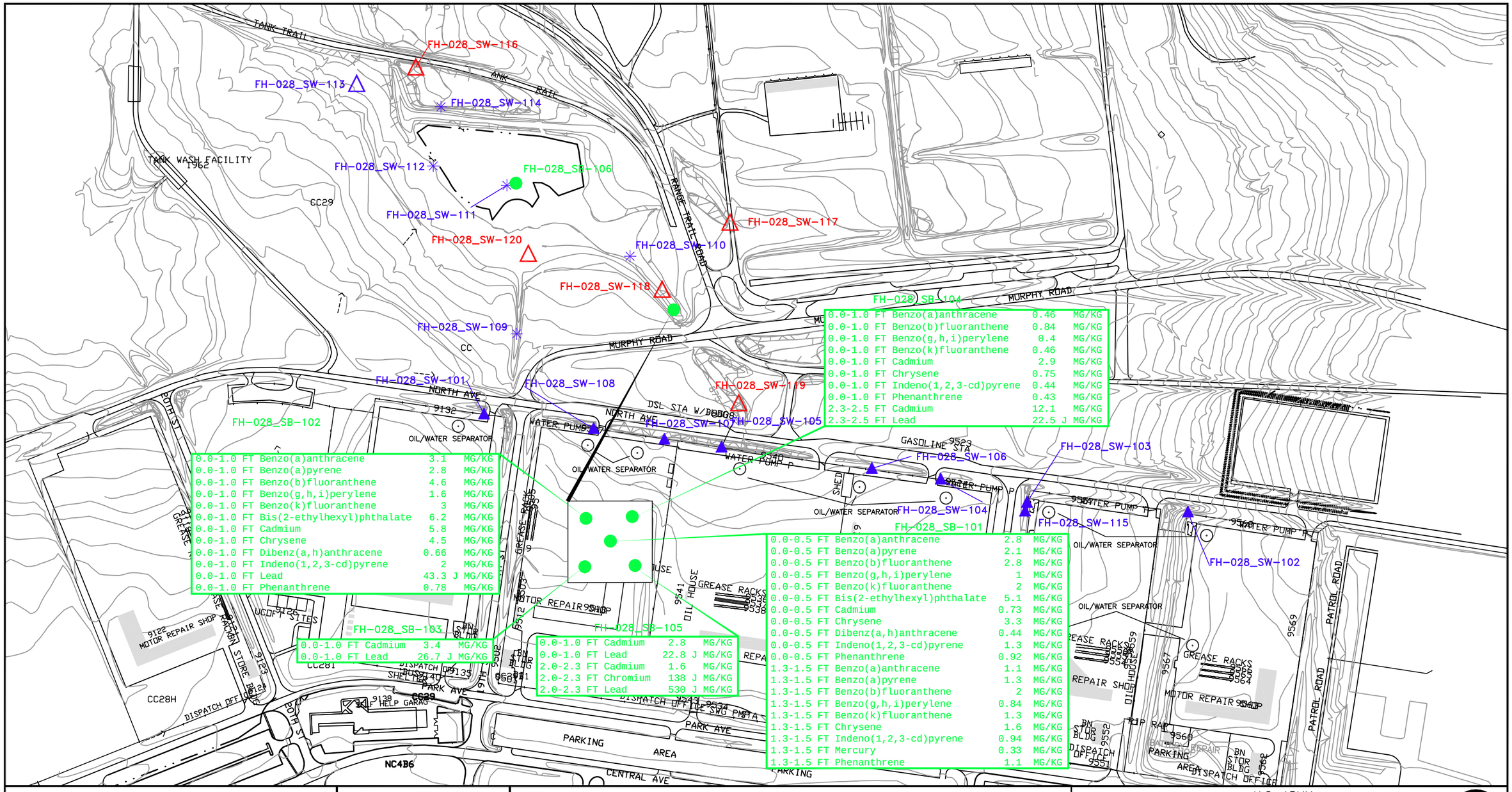
U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

FH-028 Sediment and Surface Water Sample Locations and Results Above Screening Criteria

SAIC® Science Applications International Corporation — Columbus, Ohio

SCALE		FIGURE NO.
AS SHOWN		4.1



MAIN FT. HOOD LOCATION MAP

N True North

50 0 50 100
METERS

LEGEND

- TOPOGRAPHIC CONTOUR (FT.)
- POND BOUNDARY
- BLUE DENOTES NOVEMBER 1996 SAMPLING
- RED DENOTES SEPTEMBER 1997 SAMPLING
- GREEN DENOTES MARCH 1998 SAMPLING
- SOIL BORING
- SURFACE WATER LOCATION
- SEDIMENT LOCATION
- SURFACE WATER AND SEDIMENT LOCATION
- OIL/WATER SEPARATOR

U.S. ARMY
FORT HOOD, TEXAS

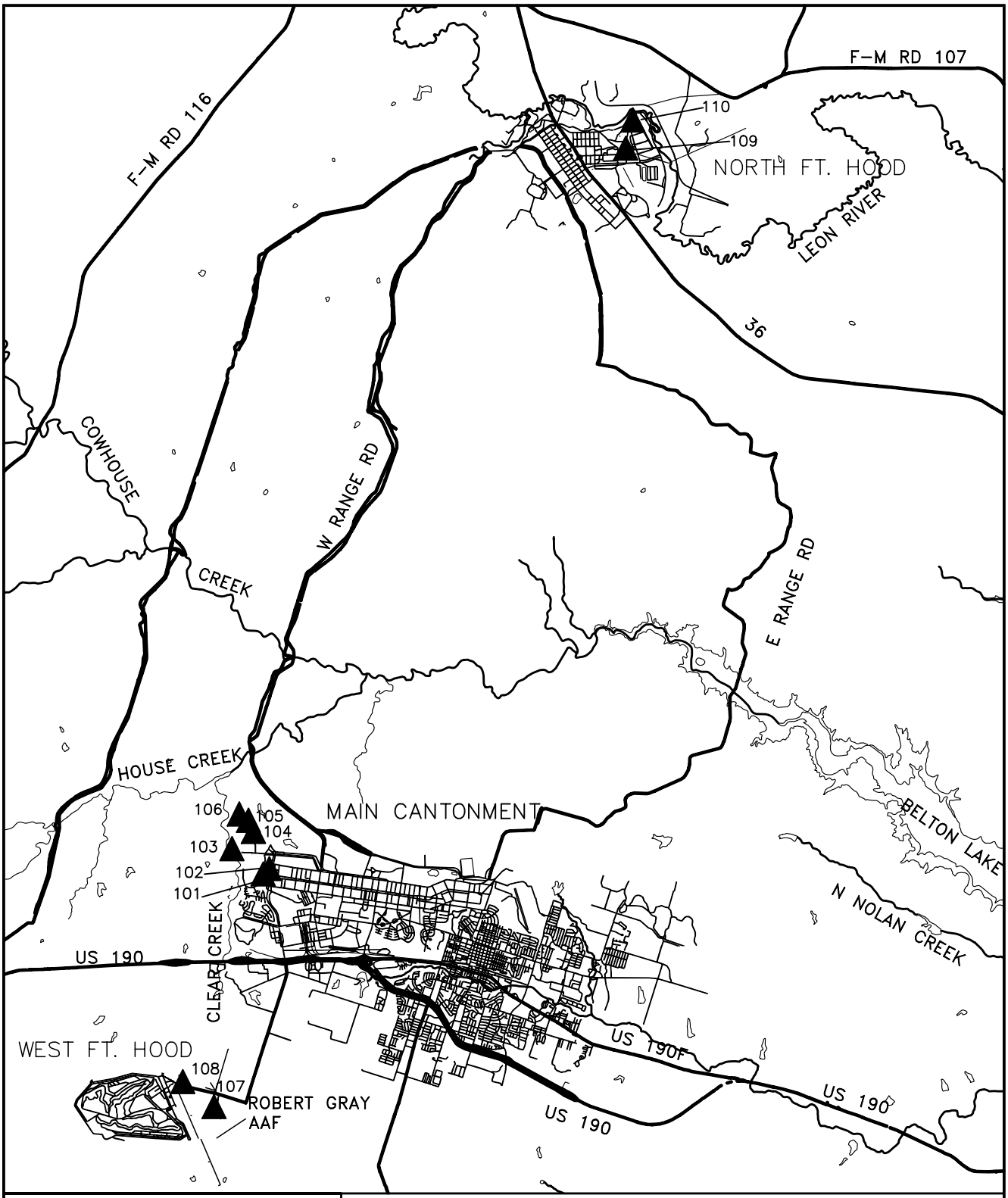
RCRA FACILITY INVESTIGATION

FH-028 Soil Sample Locations and Results Above Screening Criteria

SAIC® Science Applications International Corporation — Columbus, Ohio

SCALE		FIGURE NO.
AS SHOWN		4.2

NAME: S:\HOOD\P1\28SCSOIL99.DWG DATE: MAY 22, 2000 TIME: 1:35 PM PCP: S:\HOOD\PCP\FRP1.PCP



LEGEND

- MAJOR ROADS
- RIVERS/STREAMS
- WATER BODIES
- BACKGROUND SOIL SAMPLE LOCATION

U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

LOCATIONS OF BACKGROUND SOIL SAMPLES

SAIC® Science Applications International Corporation — Columbus, Ohio

DRAWN	CHECKED	DATE	SCALE	PROJECT NO.	FIGURE NO.
SC			1"=5000M		4.2

NAME: S:\HOOD\BACK.DWG DATE: OCT 13, 1999 TIME: 5:22 PM PCP: S:\HOOD\PCP\FRP.PCP

APPENDIX A

FH-028 Sediment and Surface Water Analytical Results

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22365.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	19	B
67-64-1	ACETONE	55	B
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	5	J
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	3	J
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22365.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	3	J
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	35	
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109RE

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22389.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 Date Analyzed: 11/25/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	150	B
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	21	
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	3	J
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	4	J
95-47-6	o-XYLENE	2	J
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109RE

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22389.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 Date Analyzed: 11/25/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	39	
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU096.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/09/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	bis(2-Chloroisopropyl)ether	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	200	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU096.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/09/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	390	U
121-14-2	2,4-Dinitrotoluene	390	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenylphenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	74	J
120-12-7	Anthracene	390	U
84-74-2	Di-n-butylphthalate	140	J
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	400	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	2600	
117-84-0	Di-n-octylphthalate	280	J
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U
110-86-1	Pyridine	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU096.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/09/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109DL

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK423.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	780	U
111-44-4	bis(2-Chloroethyl)ether	780	U
95-57-8	2-Chlorophenol	780	U
541-73-1	1,3-Dichlorobenzene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
100-51-6	Benzyl alcohol	780	U
95-50-1	1,2-Dichlorobenzene	780	U
95-48-7	2-Methylphenol	780	U
108-60-1	bis(2-Chloroisopropyl)ether	780	U
106-44-5	4-Methylphenol	780	U
621-64-7	N-Nitroso-di-n-propylamine	780	U
67-72-1	Hexachloroethane	780	U
98-95-3	Nitrobenzene	780	U
78-59-1	Isophorone	780	U
88-75-5	2-Nitrophenol	780	U
105-67-9	2,4-Dimethylphenol	780	U
65-85-0	Benzoic Acid	3800	U
111-91-1	bis(2-Chloroethoxy)methane	780	U
120-83-2	2,4-Dichlorophenol	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
91-20-3	Naphthalene	780	U
106-47-8	4-Chloroaniline	780	U
87-68-3	Hexachlorobutadiene	780	U
59-50-7	4-Chloro-3-methylphenol	780	U
91-57-6	2-Methylnaphthalene	170	JD
77-47-4	Hexachlorocyclopentadiene	780	U
88-06-2	2,4,6-Trichlorophenol	780	U
95-95-4	2,4,5-Trichlorophenol	3800	U
91-58-7	2-Chloronaphthalene	780	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	780	U
208-96-8	Acenaphthylene	780	U
606-20-2	2,6-Dinitrotoluene	780	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109DL

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK423.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	780	U
121-14-2	2,4-Dinitrotoluene	780	U
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	780	U
84-66-2	Diethylphthalate	780	U
7005-72-3	4-Chlorophenyl-phenylether	780	U
86-73-7	Fluorene	780	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine (1)	780	U
101-55-3	4-Bromophenylphenylether	780	U
118-74-1	Hexachlorobenzene	780	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	780	U
120-12-7	Anthracene	780	U
84-74-2	Di-n-butylphthalate	140	JD
206-44-0	Fluoranthene	250	JD
129-00-0	Pyrene	310	JD
85-68-7	Butylbenzylphthalate	780	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)anthracene	780	U
218-01-9	Chrysene	100	JBD
117-81-7	bis(2-Ethylhexyl)phthalate	2000	D
117-84-0	Di-n-octylphthalate	960	D
205-99-2	Benzo(b)fluoranthene	780	U
207-08-9	Benzo(k)fluoranthene	780	U
50-32-8	Benzo(a)pyrene	780	U
193-39-5	Indeno(1,2,3-cd)pyrene	780	U
53-70-3	Dibenz(a,h)anthracene	780	U
191-24-2	Benzo(g,h,i)perylene	780	U
110-86-1	Pyridine	780	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD109DL

b Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.14DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK423.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 16 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	780	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68414

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27684 SAS No.: SDG No.: 27684A

Matrix (soil/water): SOIL Lab Sample ID: 27684.14

Level (low/med): LOW Date Received: 11/19/96

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	46.1			P
7440-43-9	Cadmium	3.9		E	P
7440-47-3	Chromium	8.0		E	P
7439-92-1	Lead	22.9		E	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	0.36	U		P
7440-22-4	Silver	0.23	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CLIENT_ID_=_28SD109

FORM I - IN

ILM02.1

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22390.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 Date Analyzed: 11/25/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	7	U
67-64-1	ACETONE	320	EB
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	40	
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	11	
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22390.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 Date Analyzed: 11/25/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15DL

Sample wt/vol: 2.5 (g/mL) G Lab File ID: I22415.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 Date Analyzed: 11/26/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	15	U
74-83-9	BROMOMETHANE	15	U
75-01-4	VINYL CHLORIDE	15	U
75-00-3	CHLOROETHANE	15	U
75-09-2	METHYLENE CHLORIDE	15	U
67-64-1	ACETONE	18	BD
75-35-4	1 1-DICHLOROETHENE	15	U
75-34-3	1 1-DICHLOROETHANE	15	U
67-66-3	CHLOROFORM	15	U
107-06-2	1 2-DICHLOROETHANE	15	U
78-93-3	2-BUTANONE	15	U
71-55-6	1 1 1-TRICHLOROETHANE	15	U
56-23-5	CARBON TETRACHLORIDE	15	U
75-27-4	BROMODICHLOROMETHANE	15	U
78-87-5	1 2-DICHLOROPROPANE	15	U
79-01-6	TRICHLOROETHENE	15	U
124-48-1	DIBROMOCHLOROMETHANE	15	U
79-00-5	1 1 2-TRICHLOROETHANE	15	U
71-43-2	BENZENE	15	U
75-25-2	BROMOFORM	15	U
108-10-1	4-METHYL-2-PENTANONE	15	U
591-78-6	2-HEXANONE	15	U
127-18-4	TETRACHLOROETHENE	15	U
108-88-3	TOLUENE	15	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	15	U
108-90-7	CHLOROBENZENE	15	U
100-41-4	ETHYL BENZENE	15	U
100-42-5	STYRENE	15	U
156-59-2	cis-1 2-DICHLOROETHENE	15	U
156-60-5	trans-1 2-DICHLOROETHENE	15	U
13-302-07	m,p-XYLENES	15	U
95-47-6	o-XYLENE	15	U
106-93-4	1 2-DIBROMOETHANE	15	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	15	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15DL

Sample wt/vol: 2.5 (g/mL) G Lab File ID: I22415.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 Date Analyzed: 11/26/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	15	U
75-71-8	DICHLORODIFLUOROMETHANE	15	U
75-69-4	TRICHLOROFLUOROMETHANE	15	U
74-95-3	DIBROMOMETHANE	15	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	15	U
108-86-1	BROMOBENZENE	15	U
104-51-8	n-BUTYLBENZENE	15	U
98-06-6	tert-BUTYLBENZENE	15	U
135-98-8	sec-BUTYLBENZENE	15	U
95-49-8	2-CHLOROTOLUENE	15	U
106-43-4	4-CHLOROTOLUENE	15	U
95-50-1	1 2-DICHLOROBENZENE	15	U
541-73-1	1 3-DICHLOROBENZENE	15	U
106-46-7	1 4-DICHLOROBENZENE	15	U
142-28-9	1 3-DICHLOROPROPANE	15	U
594-20-7	2 2-DICHLOROPROPANE	15	U
563-58-6	1 1-DICHLOROPROPENE	15	U
87-68-3	HEXACHLOROBUTADIENE	15	U
98-82-8	ISOPROPYLBENZENE	15	U
99-87-6	p-ISOPROPYLTOLUENE	15	U
91-20-3	NAPHTHALENE	15	U
103-65-1	n-PROPYLBENZENE	15	U
87-61-6	1 2 3-TRICHLOROBENZENE	15	U
120-82-1	1 2 4-TRICHLOROBENZENE	15	U
95-63-6	1 2 4-TRIMETHYLBENZENE	15	U
108-67-8	1 3 5-TRIMETHYLBENZENE	15	U
74-97-5	BROMOCHLOROMETHANE	15	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU097.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
100-51-6	Benzyl alcohol	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	bis(2-Chloroisopropyl)ether	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
65-85-0	Benzoic Acid	2400	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	2400	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	2400	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU097.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2400	U
83-32-9	Acenaphthene	480	U
121-14-2	2,4-Dinitrotoluene	480	U
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	2400	U
132-64-9	Dibenzofuran	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenylphenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	970	U
56-55-3	Benzo(a)anthracene	58	J
218-01-9	Chrysene	85	J
117-81-7	bis(2-Ethylhexyl)phthalate	420	J
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenz(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U
110-86-1	Pyridine	480	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU097.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	480	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110DL

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK424.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	970	U
111-44-4	bis(2-Chloroethyl)ether	970	U
95-57-8	2-Chlorophenol	970	U
541-73-1	1,3-Dichlorobenzene	970	U
106-46-7	1,4-Dichlorobenzene	970	U
100-51-6	Benzyl alcohol	970	U
95-50-1	1,2-Dichlorobenzene	970	U
95-48-7	2-Methylphenol	970	U
108-60-1	bis(2-Chloroisopropyl)ether	970	U
106-44-5	4-Methylphenol	970	U
621-64-7	N-Nitroso-di-n-propylamine	970	U
67-72-1	Hexachloroethane	970	U
98-95-3	Nitrobenzene	970	U
78-59-1	Isophorone	970	U
88-75-5	2-Nitrophenol	970	U
105-67-9	2,4-Dimethylphenol	970	U
65-85-0	Benzoic Acid	4700	U
111-91-1	bis(2-Chloroethoxy)methane	970	U
120-83-2	2,4-Dichlorophenol	970	U
120-82-1	1,2,4-Trichlorobenzene	970	U
91-20-3	Naphthalene	970	U
106-47-8	4-Chloroaniline	970	U
87-68-3	Hexachlorobutadiene	970	U
59-50-7	4-Chloro-3-methylphenol	970	U
91-57-6	2-Methylnaphthalene	970	U
77-47-4	Hexachlorocyclopentadiene	970	U
88-06-2	2,4,6-Trichlorophenol	970	U
95-95-4	2,4,5-Trichlorophenol	4700	U
91-58-7	2-Chloronaphthalene	970	U
88-74-4	2-Nitroaniline	4700	U
131-11-3	Dimethylphthalate	970	U
208-96-8	Acenaphthylene	970	U
606-20-2	2,6-Dinitrotoluene	970	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110DL

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK424.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 dec. Date Extracted:11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4700	U
83-32-9	Acenaphthene	970	U
121-14-2	2,4-Dinitrotoluene	970	U
51-28-5	2,4-Dinitrophenol	4700	U
100-02-7	4-Nitrophenol	4700	U
132-64-9	Dibenzofuran	970	U
84-66-2	Diethylphthalate	970	U
7005-72-3	4-Chlorophenyl-phenylether	970	U
86-73-7	Fluorene	970	U
100-01-6	4-Nitroaniline	4700	U
534-52-1	4,6-Dinitro-2-methylphenol	4700	U
86-30-6	N-Nitrosodiphenylamine (1)	970	U
101-55-3	4-Bromophenylphenylether	970	U
118-74-1	Hexachlorobenzene	970	U
87-86-5	Pentachlorophenol	4700	U
85-01-8	Phenanthrene	970	U
120-12-7	Anthracene	970	U
84-74-2	Di-n-butylphthalate	970	U
206-44-0	Fluoranthene	120	JD
129-00-0	Pyrene	180	JD
85-68-7	Butylbenzylphthalate	970	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	970	U
218-01-9	Chrysene	970	U
117-81-7	bis(2-Ethylhexyl)phthalate	310	JD
117-84-0	Di-n-octylphthalate	120	JD
205-99-2	Benzo(b)fluoranthene	110	JD
207-08-9	Benzo(k)fluoranthene	120	JD
50-32-8	Benzo(a)pyrene	100	JD
193-39-5	Indeno(1,2,3-cd)pyrene	970	U
53-70-3	Dibenz(a,h)anthracene	970	U
191-24-2	Benzo(g,h,i)perylene	970	U
110-86-1	Pyridine	970	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD110DL

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.15DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK424.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 32 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	970	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68415

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27684 SAS No.: SDG No.: 27684A

Matrix (soil/water): SOIL Lab Sample ID: 27684.15

Level (low/med): LOW Date Received: 11/19/96

% Solids: 68.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	64.3			P
7440-43-9	Cadmium	1.9		E	P
7440-47-3	Chromium	10.4		E	P
7439-92-1	Lead	18.6		E	P
7439-97-6	Mercury	0.05	U		AV
7782-49-2	Selenium	0.44	U		P
7440-22-4	Silver	0.28	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CLIENT_ID_=_28SD110

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) SOIL Lab Sample ID: 27726.17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22452.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 27 Date Analyzed: 11/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	7	U
67-64-1	ACETONE	99	B
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	8	
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) SOIL Lab Sample ID: 27726.17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22452.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 27 Date Analyzed: 11/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) SOIL Lab Sample ID: 27726.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M3718.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 27 dec. Date Extracted: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
100-51-6	Benzyl alcohol	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	bis(2-Chloroisopropyl)ether	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
65-85-0	Benzoic Acid	2200	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) SOIL Lab Sample ID: 27726.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M3718.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 27 dec. Date Extracted: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	450	U
121-14-2	2,4-Dinitrotoluene	450	U
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	51	J
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine_(1)	450	U
101-55-3	4-Bromophenylphenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	140	J
85-68-7	Butylbenzylphthalate	93	J
91-94-1	3,3'-Dichlorobenzidine	900	U
56-55-3	Benzo(a)anthracene	48	J
218-01-9	Chrysene	66	J
117-81-7	bis(2-Ethylhexyl)phthalate	660	
117-84-0	Di-n-octylphthalate	120	J
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	65	J
50-32-8	Benzo(a)pyrene	51	J
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenz(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U
110-86-1	Pyridine	450	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) SOIL Lab Sample ID: 27726.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M3718.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 27 dec. Date Extracted: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	450	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

72617

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: SAS No.: SDG No.: 27726A

Matrix (soil/water): SOIL Lab Sample ID: 27726.17

Level (low/med): LOW Date Received: 11/21/96

% Solids: 73.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.1		*	P
7440-39-3	Barium	95.1			P
7440-43-9	Cadmium	0.94			P
7440-47-3	Chromium	8.9			P
7439-92-1	Lead	12.0			P
7439-97-6	Mercury	0.02	U		AV
7782-49-2	Selenium	0.38	U		P
7440-22-4	Silver	0.16	U		P

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID:

28SD111

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22367.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 33 Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	24	B
67-64-1	ACETONE	93	B
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	12	
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22367.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 33 Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD112RE

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.16RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22391.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 33 Date Analyzed: 11/25/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	7	U
67-64-1	ACETONE	110	B
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	J
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	12	
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD112RE

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.16RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22391.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 33 Date Analyzed: 11/25/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD112

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU098.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 33 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490	U
111-44-4	bis(2-Chloroethyl)ether	490	U
95-57-8	2-Chlorophenol	490	U
541-73-1	1,3-Dichlorobenzene	490	U
106-46-7	1,4-Dichlorobenzene	490	U
100-51-6	Benzyl alcohol	490	U
95-50-1	1,2-Dichlorobenzene	490	U
95-48-7	2-Methylphenol	490	U
108-60-1	bis(2-Chloroisopropyl)ether	490	U
106-44-5	4-Methylphenol	490	U
621-64-7	N-Nitroso-di-n-propylamine	490	U
67-72-1	Hexachloroethane	490	U
98-95-3	Nitrobenzene	490	U
78-59-1	Isophorone	490	U
88-75-5	2-Nitrophenol	490	U
105-67-9	2,4-Dimethylphenol	490	U
65-85-0	Benzoic Acid	2400	U
111-91-1	bis(2-Chloroethoxy)methane	490	U
120-83-2	2,4-Dichlorophenol	490	U
120-82-1	1,2,4-Trichlorobenzene	490	U
91-20-3	Naphthalene	490	U
106-47-8	4-Chloroaniline	490	U
87-68-3	Hexachlorobutadiene	490	U
59-50-7	4-Chloro-3-methylphenol	490	U
91-57-6	2-Methylnaphthalene	490	U
77-47-4	Hexachlorocyclopentadiene	490	U
88-06-2	2,4,6-Trichlorophenol	490	U
95-95-4	2,4,5-Trichlorophenol	2400	U
91-58-7	2-Chloronaphthalene	490	U
88-74-4	2-Nitroaniline	2400	U
131-11-3	Dimethylphthalate	490	U
208-96-8	Acenaphthylene	490	U
606-20-2	2,6-Dinitrotoluene	490	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD112

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU098.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 33 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2400	U
83-32-9	Acenaphthene	490	U
121-14-2	2,4-Dinitrotoluene	490	U
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	2400	U
132-64-9	Dibenzofuran	490	U
84-66-2	Diethylphthalate	490	U
7005-72-3	4-Chlorophenyl-phenylether	490	U
86-73-7	Fluorene	490	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	N-Nitrosodiphenylamine (1)	490	U
101-55-3	4-Bromophenylphenylether	490	U
118-74-1	Hexachlorobenzene	490	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	490	U
120-12-7	Anthracene	490	U
84-74-2	Di-n-butylphthalate	490	U
206-44-0	Fluoranthene	490	U
129-00-0	Pyrene	490	U
85-68-7	Butylbenzylphthalate	490	U
91-94-1	3,3'-Dichlorobenzidine	980	U
56-55-3	Benzo(a)anthracene	490	U
218-01-9	Chrysene	490	U
117-81-7	bis(2-Ethylhexyl)phthalate	170	J
117-84-0	Di-n-octylphthalate	490	U
205-99-2	Benzo(b)fluoranthene	490	U
207-08-9	Benzo(k)fluoranthene	490	U
50-32-8	Benzo(a)pyrene	490	U
193-39-5	Indeno(1,2,3-cd)pyrene	490	U
53-70-3	Dibenz(a,h)anthracene	490	U
191-24-2	Benzo(g,h,i)perylene	490	U
110-86-1	Pyridine	490	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD112

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU098.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 33 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	490	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68416

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27684 SAS No.: SDG No.: 27684A

Matrix (soil/water): SOIL Lab Sample ID: 27684.16

Level (low/med): LOW Date Received: 11/19/96

% Solids: 66.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium	112			P
7440-43-9	Cadmium	0.65	B	E	P
7440-47-3	Chromium	16.3		E	P
7439-92-1	Lead	15.0		E	P
7439-97-6	Mercury	0.05	U		AV
7782-49-2	Selenium	0.45	U		P
7440-22-4	Silver	0.28	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CLIENT_ID_=_28SD112

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD113

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22414.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 15 Date Analyzed: 11/26/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	3	JB
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD113

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22414.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 15 Date Analyzed: 11/26/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD113

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU099.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 15 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	bis(2-Chloroisopropyl)ether	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD113

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU099.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 15 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	390	U
121-14-2	2,4-Dinitrotoluene	390	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenylphenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U
110-86-1	Pyridine	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD113

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU099.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 15 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68417

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27684 SAS No.: SDG No.: 27684A

Matrix (soil/water): SOIL Lab Sample ID: 27684.17

Level (low/med): LOW Date Received: 11/19/96

% Solids: 84.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.5			P
7440-39-3	Barium	70.2			P
7440-43-9	Cadmium	0.76		E	P
7440-47-3	Chromium	10.4		E	P
7439-92-1	Lead	10.7		E	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	0.36	U		P
7440-22-4	Silver	0.22	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CLIENT_ID_=_28SD113

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD114

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.18

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22369.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 30 Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	22	B
67-64-1	ACETONE	7	U
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	29	
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD114

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.18

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22369.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 30 Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD114

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU102.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 31 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
100-51-6	Benzyl alcohol	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	bis(2-Chloroisopropyl)ether	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
65-85-0	Benzoic Acid	2300	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD114

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU102.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 31 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	480	U
121-14-2	2,4-Dinitrotoluene	480	U
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenylphenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	960	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	bis(2-Ethylhexyl)phthalate	50	J
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenz(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U
110-86-1	Pyridine	480	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD114

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) SOIL Lab Sample ID: 27684.18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JJU102.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 31 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/10/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	480	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68418

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27684 SAS No.: SDG No.: 27684A

Matrix (soil/water): SOIL Lab Sample ID: 27684.18

Level (low/med): LOW Date Received: 11/19/96

% Solids: 69.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.4			P
7440-39-3	Barium	94.0			P
7440-43-9	Cadmium	0.95		E	P
7440-47-3	Chromium	12.6		E	P
7439-92-1	Lead	21.1		E	P
7439-97-6	Mercury	0.05	U		AV
7782-49-2	Selenium	0.54	B		P
7440-22-4	Silver	0.27	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CLIENT_ID_=_28SD114

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28137.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 14 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	40	B
67-64-1	ACETONE	74	B
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	2	J
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28137.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 14 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	5	J
91-20-3	NAPHTHALENE	24	B
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	11	
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28147.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 14 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	37	B
67-64-1	ACETONE	120	B
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	1	J
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28147.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 14 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6 ~~1~~	U ~~J~~ BW 11
91-20-3	NAPHTHALENE	7	B
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01

Sample wt/vol: 31.3 (g/mL) G Lab File ID: T23469.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	bis(2-Chloroisopropyl)ether	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2100	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01

Sample wt/vol: 31.3 (g/mL) G Lab File ID: T23469.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	430	U
121-14-2	2,4-Dinitrotoluene	430	U
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenylphenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	77	J
120-12-7	Anthracene	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	170	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	850	U
56-55-3	Benzo(a)anthracene	74	J
218-01-9	Chrysene	88	J
117-81-7	bis(2-Ethylhexyl)phthalate	340	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	76	J
207-08-9	Benzo(k)fluoranthene	85	J
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenz(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U
110-86-1	Pyridine	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01

Sample wt/vol: 31.3 (g/mL) G Lab File ID: T23469.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	430	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01RA

Sample wt/vol: 31.3 (g/mL) G Lab File ID: T23506.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	bis(2-Chloroisopropyl)ether	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2100	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01RA

Sample wt/vol: 31.3 (g/mL) G Lab File ID: T23506.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	430	U
121-14-2	2,4-Dinitrotoluene	430	U
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenylphenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	80	J
120-12-7	Anthracene	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	170	J
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	850	U
56-55-3	Benzo(a)anthracene	63	J
218-01-9	Chrysene	85	J
117-81-7	bis(2-Ethylhexyl)phthalate	430	B
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	84	J
207-08-9	Benzo(k)fluoranthene	90	J
50-32-8	Benzo(a)pyrene	72	J
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenz(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	58	J
110-86-1	Pyridine	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD116RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.01RA

Sample wt/vol: 31.3 (g/mL) G Lab File ID: T23506.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	430	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

98201

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: SAS No.: SDG No.: 30982A

Matrix (soil/water): SOIL Lab Sample ID: 30982.01

Level (low/med): LOW Date Received: 09/12/97

% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	65.2			P
7440-43-9	Cadmium	1.4			P
7440-47-3	Chromium	10.3			P
7439-92-1	Lead	24.1			P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	1.8	B		F
7440-22-4	Silver	0.20	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SD116

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28138.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	6	JB
67-64-1	ACETONE	53	B
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28138.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	B
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02

Sample wt/vol: 31.9 (g/mL) G Lab File ID: T23470.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	bis(2-Chloroisopropyl)ether	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02

Sample wt/vol: 31.9 (g/mL) G Lab File ID: T23470.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	100	J
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenylphenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	47	J
120-12-7	Anthracene	420	U
84-74-2	Di-n-butylphthalate	69	J
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	130	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	840	U
56-55-3	Benzo(a)anthracene	52	J
218-01-9	Chrysene	64	J
117-81-7	bis(2-Ethylhexyl)phthalate	420	JB
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	56	J
207-08-9	Benzo(k)fluoranthene	59	J
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
110-86-1	Pyridine	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02

Sample wt/vol: 31.9 (g/mL) G Lab File ID: T23470.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02RA

Sample wt/vol: 31.9 (g/mL) G Lab File ID: T23504.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	bis(2-Chloroisopropyl)ether	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02RA

Sample wt/vol: 31.9 (g/mL) G Lab File ID: T23504.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	130	J
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenylphenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	51	J
120-12-7	Anthracene	420	U
84-74-2	Di-n-butylphthalate	77	J
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	120	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	840	U
56-55-3	Benzo(a)anthracene	49	J
218-01-9	Chrysene	71	J
117-81-7	bis(2-Ethylhexyl)phthalate	440	B
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	66	J
207-08-9	Benzo(k)fluoranthene	58	J
50-32-8	Benzo(a)pyrene	47	J
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
110-86-1	Pyridine	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD117RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.02RA

Sample wt/vol: 31.9 (g/mL) G Lab File ID: T23504.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 26 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

98202

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract:SAIC_____
Lab Code: SWOK__ Case No.: _____ SAS No.: _____ SDG No.: 30982A
Matrix (soil/water): SOIL_ Lab Sample ID: 30982.02
Level (low/med): LOW__ Date Received: 09/12/97
% Solids: _74.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.8			P
7440-39-3	Barium	55.9			P
7440-43-9	Cadmium	0.62	B		P
7440-47-3	Chromium	9.1			P
7439-92-1	Lead	5.8			P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	0.30	U		F
7440-22-4	Silver	0.23	U		P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:
CLIENT_ID_=_28SD117

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD118

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28139.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 40 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	8	U
74-83-9	BROMOMETHANE	8	U
75-01-4	VINYL CHLORIDE	8	U
75-00-3	CHLOROETHANE	8	U
75-09-2	METHYLENE CHLORIDE	4	JB
67-64-1	ACETONE	54	B
75-35-4	1 1-DICHLOROETHENE	8	U
75-34-3	1 1-DICHLOROETHANE	8	U
67-66-3	CHLOROFORM	8	U
107-06-2	1 2-DICHLOROETHANE	8	U
78-93-3	2-BUTANONE	8	U
71-55-6	1 1 1-TRICHLOROETHANE	8	U
56-23-5	CARBON TETRACHLORIDE	8	U
75-27-4	BROMODICHLOROMETHANE	8	U
78-87-5	1 2-DICHLOROPROPANE	8	U
79-01-6	TRICHLOROETHENE	8	U
124-48-1	DIBROMOCHLOROMETHANE	8	U
79-00-5	1 1 2-TRICHLOROETHANE	8	U
71-43-2	BENZENE	8	U
75-25-2	BROMOFORM	8	U
108-10-1	4-METHYL-2-PENTANONE	8	U
591-78-6	2-HEXANONE	8	U
127-18-4	TETRACHLOROETHENE	8	U
108-88-3	TOLUENE	1600	E
79-34-5	1 1 2 2-TETRACHLOROETHANE	8	U
108-90-7	CHLOROBENZENE	8	U
100-41-4	ETHYL BENZENE	9	
100-42-5	STYRENE	8	U
156-59-2	cis-1 2-DICHLOROETHENE	8	U
156-60-5	trans-1 2-DICHLOROETHENE	8	U
13-302-07	m,p-XYLENES	8	U
95-47-6	o-XYLENE	8	U
106-93-4	1 2-DIBROMOETHANE	8	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	8	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD118

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28139.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 40 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	8	U
75-71-8	DICHLORODIFLUOROMETHANE	8	U
75-69-4	TRICHLOROFLUOROMETHANE	8	U
74-95-3	DIBROMOMETHANE	8	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	8	U
108-86-1	BROMOBENZENE	8	U
104-51-8	n-BUTYLBENZENE	8	U
98-06-6	tert-BUTYLBENZENE	8	U
135-98-8	sec-BUTYLBENZENE	8	U
95-49-8	2-CHLOROTOLUENE	8	U
106-43-4	4-CHLOROTOLUENE	8	U
95-50-1	1 2-DICHLOROBENZENE	8	U
541-73-1	1 3-DICHLOROBENZENE	8	U
106-46-7	1 4-DICHLOROBENZENE	8	U
142-28-9	1 3-DICHLOROPROPANE	8	U
594-20-7	2 2-DICHLOROPROPANE	8	U
563-58-6	1 1-DICHLOROPROPENE	8	U
87-68-3	HEXACHLOROBUTADIENE	8	U
98-82-8	ISOPROPYLBENZENE	8	U
99-87-6	p-ISOPROPYLTOLUENE	30	
91-20-3	NAPHTHALENE	10	B
103-65-1	n-PROPYLBENZENE	8	U
87-61-6	1 2 3-TRICHLOROBENZENE	8	U
120-82-1	1 2 4-TRICHLOROBENZENE	8	U
95-63-6	1 2 4-TRIMETHYLBENZENE	8	U
108-67-8	1 3 5-TRIMETHYLBENZENE	8	U
74-97-5	BROMOCHLOROMETHANE	8	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD118DL

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.03DL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28149.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 40 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	42	U
74-83-9	BROMOMETHANE	42	U
75-01-4	VINYL CHLORIDE	42	U
75-00-3	CHLOROETHANE	42	U
75-09-2	METHYLENE CHLORIDE	65	BD
67-64-1	ACETONE	55	BD
75-35-4	1 1-DICHLOROETHENE	42	U
75-34-3	1 1-DICHLOROETHANE	42	U
67-66-3	CHLOROFORM	42	U
107-06-2	1 2-DICHLOROETHANE	42	U
78-93-3	2-BUTANONE	42	U
71-55-6	1 1 1-TRICHLOROETHANE	42	U
56-23-5	CARBON TETRACHLORIDE	42	U
75-27-4	BROMODICHLOROMETHANE	42	U
78-87-5	1 2-DICHLOROPROPANE	42	U
79-01-6	TRICHLOROETHENE	42	U
124-48-1	DIBROMOCHLOROMETHANE	42	U
79-00-5	1 1 2-TRICHLOROETHANE	42	U
71-43-2	BENZENE	42	U
75-25-2	BROMOFORM	42	U
108-10-1	4-METHYL-2-PENTANONE	42	U
591-78-6	2-HEXANONE	42	U
127-18-4	TETRACHLOROETHENE	42	U
108-88-3	TOLUENE	1500	D
79-34-5	1 1 2 2-TETRACHLOROETHANE	42	U
108-90-7	CHLOROBENZENE	42	U
100-41-4	ETHYL BENZENE	9	JD
100-42-5	STYRENE	42	U
156-59-2	cis-1 2-DICHLOROETHENE	42	U
156-60-5	trans-1 2-DICHLOROETHENE	42	U
13-302-07	m,p-XYLENES	42	U
95-47-6	o-XYLENE	42	U
106-93-4	1 2-DIBROMOETHANE	42	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	42	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD118DL

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.03DL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28149.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 40 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	42	U
75-71-8	DICHLORODIFLUOROMETHANE	42	U
75-69-4	TRICHLOROFLUOROMETHANE	42	U
74-95-3	DIBROMOMETHANE	42	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	42	U
108-86-1	BROMOBENZENE	42	U
104-51-8	n-BUTYLBENZENE	42	U
98-06-6	tert-BUTYLBENZENE	42	U
135-98-8	sec-BUTYLBENZENE	42	U
95-49-8	2-CHLOROTOLUENE	42	U
106-43-4	4-CHLOROTOLUENE	42	U
95-50-1	1 2-DICHLOROBENZENE	42	U
541-73-1	1 3-DICHLOROBENZENE	42	U
106-46-7	1 4-DICHLOROBENZENE	42	U
142-28-9	1 3-DICHLOROPROPANE	42	U
594-20-7	2 2-DICHLOROPROPANE	42	U
563-58-6	1 1-DICHLOROPROPENE	42	U
87-68-3	HEXACHLOROBUTADIENE	42	U
98-82-8	ISOPROPYLBENZENE	42	U
99-87-6	p-ISOPROPYLTOLUENE	42	U
91-20-3	NAPHTHALENE	42	U
103-65-1	n-PROPYLBENZENE	42	U
87-61-6	1 2 3-TRICHLOROBENZENE	42	U
120-82-1	1 2 4-TRICHLOROBENZENE	42	U
95-63-6	1 2 4-TRIMETHYLBENZENE	42	U
108-67-8	1 3 5-TRIMETHYLBENZENE	42	U
74-97-5	BROMOCHLOROMETHANE	42	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD118

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.03

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T23471.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 40 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	550	U
111-44-4	bis(2-Chloroethyl)ether	550	U
95-57-8	2-Chlorophenol	550	U
541-73-1	1,3-Dichlorobenzene	550	U
106-46-7	1,4-Dichlorobenzene	550	U
100-51-6	Benzyl alcohol	550	U
95-50-1	1,2-Dichlorobenzene	550	U
95-48-7	2-Methylphenol	550	U
108-60-1	bis(2-Chloroisopropyl)ether	550	U
106-44-5	4-Methylphenol	1300	
621-64-7	N-Nitroso-di-n-propylamine	550	U
67-72-1	Hexachloroethane	550	U
98-95-3	Nitrobenzene	550	U
78-59-1	Isophorone	550	U
88-75-5	2-Nitrophenol	550	U
105-67-9	2,4-Dimethylphenol	550	U
65-85-0	Benzoic Acid	2600	U
111-91-1	bis(2-Chloroethoxy)methane	550	U
120-83-2	2,4-Dichlorophenol	550	U
120-82-1	1,2,4-Trichlorobenzene	550	U
91-20-3	Naphthalene	550	U
106-47-8	4-Chloroaniline	550	U
87-68-3	Hexachlorobutadiene	550	U
59-50-7	4-Chloro-3-methylphenol	550	U
91-57-6	2-Methylnaphthalene	550	U
77-47-4	Hexachlorocyclopentadiene	550	U
88-06-2	2,4,6-Trichlorophenol	550	U
95-95-4	2,4,5-Trichlorophenol	2600	U
91-58-7	2-Chloronaphthalene	550	U
88-74-4	2-Nitroaniline	2600	U
131-11-3	Dimethylphthalate	550	U
208-96-8	Acenaphthylene	550	U
606-20-2	2,6-Dinitrotoluene	550	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD118

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.03

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T23471.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 40 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2600	U
83-32-9	Acenaphthene	550	U
121-14-2	2,4-Dinitrotoluene	550	U
51-28-5	2,4-Dinitrophenol	2600	U
100-02-7	4-Nitrophenol	2600	U
132-64-9	Dibenzofuran	550	U
84-66-2	Diethylphthalate	550	U
7005-72-3	4-Chlorophenyl-phenylether	550	U
86-73-7	Fluorene	550	U
100-01-6	4-Nitroaniline	2600	U
534-52-1	4,6-Dinitro-2-methylphenol	2600	U
86-30-6	N-Nitrosodiphenylamine (1)	550	U
101-55-3	4-Bromophenylphenylether	550	U
118-74-1	Hexachlorobenzene	550	U
87-86-5	Pentachlorophenol	2600	U
85-01-8	Phenanthrene	550	U
120-12-7	Anthracene	550	U
84-74-2	Di-n-butylphthalate	550	U
206-44-0	Fluoranthene	550	U
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	550	U
91-94-1	3,3'-Dichlorobenzidine	1100	U
56-55-3	Benzo(a)anthracene	60	J
218-01-9	Chrysene	80	J
117-81-7	bis(2-Ethylhexyl)phthalate	1400	B
117-84-0	Di-n-octylphthalate	310	J
205-99-2	Benzo(b)fluoranthene	550	U
207-08-9	Benzo(k)fluoranthene	550	U
50-32-8	Benzo(a)pyrene	550	U
193-39-5	Indeno(1,2,3-cd)pyrene	550	U
53-70-3	Dibenz(a,h)anthracene	550	U
191-24-2	Benzo(g,h,i)perylene	550	U
110-86-1	Pyridine	550	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD118

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.03

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T23471.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 40 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/01/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	550	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID: 98203

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract:SAIC_____
Lab Code: SWOK__ Case No.: _____ SAS No.: _____ SDG No.: 30982A
Matrix (soil/water): SOIL_ Lab Sample ID: 30982.03
Level (low/med): LOW__ Date Received: 09/12/97
% Solids: _60.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	110			P
7440-43-9	Cadmium	2.2			P
7440-47-3	Chromium	13.9			P
7439-92-1	Lead	19.3			P
7439-97-6	Mercury	0.05	U		AV
7782-49-2	Selenium	0.37	U	W	F
7440-22-4	Silver	0.28	U		P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:
CLIENT_ID_=_28SD118

FORM I - IN

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD119

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28142.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 64 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	14	U
74-83-9	BROMOMETHANE	14	U
75-01-4	VINYL CHLORIDE	14	U
75-00-3	CHLOROETHANE	14	U
75-09-2	METHYLENE CHLORIDE	16	B
67-64-1	ACETONE	500	B
75-35-4	1 1-DICHLOROETHENE	14	U
75-34-3	1 1-DICHLOROETHANE	14	U
67-66-3	CHLOROFORM	14	U
107-06-2	1 2-DICHLOROETHANE	14	U
78-93-3	2-BUTANONE	150	
71-55-6	1 1 1-TRICHLOROETHANE	14	U
56-23-5	CARBON TETRACHLORIDE	14	U
75-27-4	BROMODICHLOROMETHANE	14	U
78-87-5	1 2-DICHLOROPROPANE	14	U
79-01-6	TRICHLOROETHENE	14	U
124-48-1	DIBROMOCHLOROMETHANE	14	U
79-00-5	1 1 2-TRICHLOROETHANE	14	U
71-43-2	BENZENE	14	U
75-25-2	BROMOFORM	14	U
108-10-1	4-METHYL-2-PENTANONE	16	
591-78-6	2-HEXANONE	14	U
127-18-4	TETRACHLOROETHENE	14	U
108-88-3	TOLUENE	19	
79-34-5	1 1 2 2-TETRACHLOROETHANE	14	U
108-90-7	CHLOROBENZENE	14	U
100-41-4	ETHYL BENZENE	9	J
100-42-5	STYRENE	14	U
156-59-2	cis-1 2-DICHLOROETHENE	14	U
156-60-5	trans-1 2-DICHLOROETHENE	14	U
13-302-07	m,p-XYLENES	21	
95-47-6	o-XYLENE	11	J
106-93-4	1 2-DIBROMOETHANE	14	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD119

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28142.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 64 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	14	U
75-71-8	DICHLORODIFLUOROMETHANE	14	U
75-69-4	TRICHLOROFLUOROMETHANE	14	U
74-95-3	DIBROMOMETHANE	14	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	14	U
108-86-1	BROMOBENZENE	14	U
104-51-8	n-BUTYLBENZENE	66	
98-06-6	tert-BUTYLBENZENE	14	U
135-98-8	sec-BUTYLBENZENE	24	
95-49-8	2-CHLOROTOLUENE	14	U
106-43-4	4-CHLOROTOLUENE	14	U
95-50-1	1 2-DICHLOROBENZENE	23	
541-73-1	1 3-DICHLOROBENZENE	6	J
106-46-7	1 4-DICHLOROBENZENE	17	
142-28-9	1 3-DICHLOROPROPANE	14	U
594-20-7	2 2-DICHLOROPROPANE	14	U
563-58-6	1 1-DICHLOROPROPENE	14	U
87-68-3	HEXACHLOROBUTADIENE	14	U
98-82-8	ISOPROPYLBENZENE	14	U
99-87-6	p-ISOPROPYLTOLUENE	46	
91-20-3	NAPHTHALENE	440	B
103-65-1	n-PROPYLBENZENE	11	J
87-61-6	1 2 3-TRICHLOROBENZENE	120	
120-82-1	1 2 4-TRICHLOROBENZENE	67	
95-63-6	1 2 4-TRIMETHYLBENZENE	140	
108-67-8	1 3 5-TRIMETHYLBENZENE	67	
74-97-5	BROMOCHLOROMETHANE	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD119RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.04RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28148.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 64 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	14	U
74-83-9	BROMOMETHANE	14	U
75-01-4	VINYL CHLORIDE	14	U
75-00-3	CHLOROETHANE	14	U
75-09-2	METHYLENE CHLORIDE	31	B
67-64-1	ACETONE	380	B
75-35-4	1 1-DICHLOROETHENE	14	U
75-34-3	1 1-DICHLOROETHANE	14	U
67-66-3	CHLOROFORM	14	U
107-06-2	1 2-DICHLOROETHANE	14	U
78-93-3	2-BUTANONE	100	
71-55-6	1 1 1-TRICHLOROETHANE	14	U
56-23-5	CARBON TETRACHLORIDE	14	U
75-27-4	BROMODICHLOROMETHANE	14	U
78-87-5	1 2-DICHLOROPROPANE	14	U
79-01-6	TRICHLOROETHENE	14	U
124-48-1	DIBROMOCHLOROMETHANE	14	U
79-00-5	1 1 2-TRICHLOROETHANE	14	U
71-43-2	BENZENE	14	U
75-25-2	BROMOFORM	14	U
108-10-1	4-METHYL-2-PENTANONE	4	J
591-78-6	2-HEXANONE	14	U
127-18-4	TETRACHLOROETHENE	14	U
108-88-3	TOLUENE	4	J
79-34-5	1 1 2 2-TETRACHLOROETHANE	14	U
108-90-7	CHLOROBENZENE	14	U
100-41-4	ETHYL BENZENE	4	J
100-42-5	STYRENE	14	U
156-59-2	cis-1 2-DICHLOROETHENE	14	U
156-60-5	trans-1 2-DICHLOROETHENE	14	U
13-302-07	m,p-XYLENES	13	J
95-47-6	o-XYLENE	3	J
106-93-4	1 2-DIBROMOETHANE	14	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	14	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD119RE

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.04RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28148.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 64 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	14	U
75-71-8	DICHLORODIFLUOROMETHANE	14	U
75-69-4	TRICHLOROFLUOROMETHANE	14	U
74-95-3	DIBROMOMETHANE	14	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	14	U
108-86-1	BROMOBENZENE	14	U
104-51-8	n-BUTYLBENZENE	26	
98-06-6	tert-BUTYLBENZENE	14	U
135-98-8	sec-BUTYLBENZENE	7	J
95-49-8	2-CHLOROTOLUENE	14	U
106-43-4	4-CHLOROTOLUENE	14	U
95-50-1	1 2-DICHLOROBENZENE	14	U
541-73-1	1 3-DICHLOROBENZENE	14	U
106-46-7	1 4-DICHLOROBENZENE	14	U
142-28-9	1 3-DICHLOROPROPANE	14	U
594-20-7	2 2-DICHLOROPROPANE	14	U
563-58-6	1 1-DICHLOROPROPENE	14	U
87-68-3	HEXACHLOROBUTADIENE	14	U
98-82-8	ISOPROPYLBENZENE	14	U
99-87-6	p-ISOPROPYLTOLUENE	4	J
91-20-3	NAPHTHALENE	28	B
103-65-1	n-PROPYLBENZENE	3	J
87-61-6	1 2 3-TRICHLOROBENZENE	14	U
120-82-1	1 2 4-TRICHLOROBENZENE	14	U
95-63-6	1 2 4-TRIMETHYLBENZENE	100	
108-67-8	1 3 5-TRIMETHYLBENZENE	45	
74-97-5	BROMOCHLOROMETHANE	14	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD119

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.04

Sample wt/vol: 30.4 (g/mL) G Lab File ID: T23505.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 64 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
100-51-6	Benzyl alcohol	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	bis(2-Chloroisopropyl)ether	1800	U
106-44-5	4-Methylphenol	1100	J
621-64-7	N-Nitroso-di-n-propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
65-85-0	Benzoic Acid	8800	U
111-91-1	bis(2-Chloroethoxy)methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	330	J
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	8800	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	8800	U
131-11-3	Dimethylphthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD119

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.04

Sample wt/vol: 30.4 (g/mL) G Lab File ID: T23505.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 64 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	8800	U
83-32-9	Acenaphthene	1800	U
121-14-2	2,4-Dinitrotoluene	1800	U
51-28-5	2,4-Dinitrophenol	8800	U
100-02-7	4-Nitrophenol	8800	U
132-64-9	Dibenzofuran	1800	U
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	1800	U
100-01-6	4-Nitroaniline	8800	U
534-52-1	4,6-Dinitro-2-methylphenol	8800	U
86-30-6	N-Nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenylphenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	8800	U
85-01-8	Phenanthrene	240	J
120-12-7	Anthracene	1800	U
84-74-2	Di-n-butylphthalate	1800	U
206-44-0	Fluoranthene	1800	U
129-00-0	Pyrene	290	J
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	3600	U
56-55-3	Benzo(a)anthracene	1800	U
218-01-9	Chrysene	260	J
117-81-7	bis(2-Ethylhexyl)phthalate	13000	B
117-84-0	Di-n-octylphthalate	7000	
205-99-2	Benzo(b)fluoranthene	1800	U
207-08-9	Benzo(k)fluoranthene	1800	U
50-32-8	Benzo(a)pyrene	1800	U
193-39-5	Indeno(1,2,3-cd)pyrene	1800	U
53-70-3	Dibenz(a,h)anthracene	1800	U
191-24-2	Benzo(g,h,i)perylene	1800	U
110-86-1	Pyridine	1800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD119

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.04

Sample wt/vol: 30.4 (g/mL) G Lab File ID: T23505.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 64 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	1800	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID: 98204

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: SAS No.: SDG No.: 30982A
Matrix (soil/water): SOIL Lab Sample ID: 30982.04
Level (low/med): LOW Date Received: 09/12/97
% Solids: 36.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	109			P
7440-43-9	Cadmium	10.4			P
7440-47-3	Chromium	14.5			P
7439-92-1	Lead	25.2			P
7439-97-6	Mercury	0.09	U		AV
7782-49-2	Selenium	3.5	B	W	F
7440-22-4	Silver	0.46	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
CLIENT_ID_=_28SD119

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD120

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28143.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 33 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	5	JB
67-64-1	ACETONE	34	B
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SD120

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R28143.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 33 Date Analyzed: 09/18/97

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	12	B
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD120

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T23502.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 33 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490	U
111-44-4	bis(2-Chloroethyl)ether	490	U
95-57-8	2-Chlorophenol	490	U
541-73-1	1,3-Dichlorobenzene	490	U
106-46-7	1,4-Dichlorobenzene	490	U
100-51-6	Benzyl alcohol	490	U
95-50-1	1,2-Dichlorobenzene	490	U
95-48-7	2-Methylphenol	490	U
108-60-1	bis(2-Chloroisopropyl)ether	490	U
106-44-5	4-Methylphenol	490	U
621-64-7	N-Nitroso-di-n-propylamine	490	U
67-72-1	Hexachloroethane	490	U
98-95-3	Nitrobenzene	490	U
78-59-1	Isophorone	490	U
88-75-5	2-Nitrophenol	490	U
105-67-9	2,4-Dimethylphenol	490	U
65-85-0	Benzoic Acid	2400	U
111-91-1	bis(2-Chloroethoxy)methane	490	U
120-83-2	2,4-Dichlorophenol	490	U
120-82-1	1,2,4-Trichlorobenzene	490	U
91-20-3	Naphthalene	490	U
106-47-8	4-Chloroaniline	490	U
87-68-3	Hexachlorobutadiene	490	U
59-50-7	4-Chloro-3-methylphenol	490	U
91-57-6	2-Methylnaphthalene	490	U
77-47-4	Hexachlorocyclopentadiene	490	U
88-06-2	2,4,6-Trichlorophenol	490	U
95-95-4	2,4,5-Trichlorophenol	2400	U
91-58-7	2-Chloronaphthalene	490	U
88-74-4	2-Nitroaniline	2400	U
131-11-3	Dimethylphthalate	490	U
208-96-8	Acenaphthylene	490	U
606-20-2	2,6-Dinitrotoluene	490	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD120

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T23502.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 33 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2400	U
83-32-9	Acenaphthene	490	U
121-14-2	2,4-Dinitrotoluene	490	U
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	2400	U
132-64-9	Dibenzofuran	490	U
84-66-2	Diethylphthalate	490	U
7005-72-3	4-Chlorophenyl-phenylether	490	U
86-73-7	Fluorene	490	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	N-Nitrosodiphenylamine (1)	490	U
101-55-3	4-Bromophenylphenylether	490	U
118-74-1	Hexachlorobenzene	490	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	490	U
120-12-7	Anthracene	490	U
84-74-2	Di-n-butylphthalate	490	U
206-44-0	Fluoranthene	490	U
129-00-0	Pyrene	490	U
85-68-7	Butylbenzylphthalate	490	U
91-94-1	3,3'-Dichlorobenzidine	980	U
56-55-3	Benzo(a)anthracene	490	U
218-01-9	Chrysene	490	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	JB
117-84-0	Di-n-octylphthalate	100	J
205-99-2	Benzo(b)fluoranthene	490	U
207-08-9	Benzo(k)fluoranthene	490	U
50-32-8	Benzo(a)pyrene	490	U
193-39-5	Indeno(1,2,3-cd)pyrene	490	U
53-70-3	Dibenz(a,h)anthracene	490	U
191-24-2	Benzo(g,h,i)perylene	490	U
110-86-1	Pyridine	490	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SD120

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 30982

Matrix: (soil/water) SOIL Lab Sample ID: 30982.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T23502.D

Level: (low/med) LOW Date Received: 09/12/97

% Moisture: not dec. 33 dec. Date Extracted: 09/16/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/02/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	490	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

98205

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: SAS No.: SDG No.: 30982A

Matrix (soil/water): SOIL Lab Sample ID: 30982.05

Level (low/med): LOW Date Received: 09/12/97

% Solids: 67.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.4			P
7440-39-3	Barium	140			P
7440-43-9	Cadmium	1.3			P
7440-47-3	Chromium	21.3			P
7439-92-1	Lead	12.7			P
7439-97-6	Mercury	0.05	U		AV
7782-49-2	Selenium	2.2	B		F
7440-22-4	Silver	0.25	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SD120

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW101

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.12

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL490.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	1	J
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	2	J
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	2	J
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	2	J
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	3	J
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	18	
95-47-6	o-XYLENE	9	
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW101

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.12

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL490.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	22	
103-65-1	n-PROPYLBENZENE	2	J
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	34	
108-67-8	1 3 5-TRIMETHYLBENZENE	17	
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW101

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3731.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	9	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	8	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW101

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3731.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	2	J
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	1	J
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	62	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW101

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3731.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

FORM I SV-3

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

74612

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27746 SAS No.: SDG No.: 27746B

Matrix (soil/water): WATER Lab Sample ID: 27746.12

Level (low/med): LOW Date Received: 11/22/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.0	B		P
7440-39-3	Barium	276			P
7440-43-9	Cadmium	8.6			P
7440-47-3	Chromium	14.8			P
7439-92-1	Lead	86.0			P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW101

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW102

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.13

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL491.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	8	
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	3	J
95-47-6	o-XYLENE	2	J
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW102

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.13

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL491.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	2	J
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	10	
108-67-8	1 3 5-TRIMETHYLBENZENE	3	J
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW102

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.13

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3732.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	3	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW102

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.13

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3732.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW102

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.13

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3732.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

74613

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27746 SAS No.: SDG No.: 27746B

Matrix (soil/water): WATER Lab Sample ID: 27746.13

Level (low/med): LOW Date Received: 11/22/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.6	B		P
7440-39-3	Barium	67.5			P
7440-43-9	Cadmium	1.4	B		P
7440-47-3	Chromium	12.7			P
7439-92-1	Lead	1.7	U		P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW102

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW103

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.14

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL492.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	8	
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	3	J
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	3	J
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	30	
95-47-6	o-XYLENE	14	
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW103

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.14

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL492.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	3	J
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	1	J
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	2	J
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	43	
103-65-1	n-PROPYLBENZENE	2	J
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	76	
108-67-8	1 3 5-TRIMETHYLBENZENE	19	
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW103

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3733.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	7	J
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	1	J
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	11	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW103

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3733.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW103

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3733.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

74614

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27746 SAS No.: SDG No.: 27746B

Matrix (soil/water): WATER Lab Sample ID: 27746.14

Level (low/med): LOW Date Received: 11/22/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.9	B		P
7440-39-3	Barium	71.4			P
7440-43-9	Cadmium	1.4	B		P
7440-47-3	Chromium	1.4	B		P
7439-92-1	Lead	1.7	U		P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW103

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW104

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.15

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL493.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	1	J
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	3	J
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	1	J
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW104

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.15

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL493.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	5	U
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW104

b Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3734.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	2	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW104

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3734.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW104

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3734.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

74615

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK__ Case No.: 27746 SAS No.: _____ SDG No.: 27746B
Matrix (soil/water): WATER Lab Sample ID: 27746.15__
Level (low/med): LOW__ Date Received: 11/22/96
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.0	B		P
7440-39-3	Barium	68.0			P
7440-43-9	Cadmium	5.2			P
7440-47-3	Chromium	2.4	B		P
7439-92-1	Lead	4.5			P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
CLIENT_ID_=_28SW104

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW105

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL494.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	10	
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	2	J
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	3	J
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	4	J
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	4	J
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	4	J
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	25	
95-47-6	o-XYLENE	13	
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW105

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL494.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. _____ Date Analyzed: 12/02/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	2	J
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	1	J
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	37	
103-65-1	n-PROPYLBENZENE	1	J
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	42	
108-67-8	1 3 5-TRIMETHYLBENZENE	8	
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW105

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3735.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	2	J
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	2	J
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	6	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	16	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	13	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW105

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3735.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW105

b Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27746

Matrix: (soil/water) WATER Lab Sample ID: 27746.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3735.D

Level: (low/med) LOW Date Received: 11/22/96

% Moisture: not dec. 0 dec. Date Extracted: 11/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

74616

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27746 SAS No.: SDG No.: 27746B

Matrix (soil/water): WATER Lab Sample ID: 27746.16

Level (low/med): LOW Date Received: 11/22/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.9	B		P
7440-39-3	Barium	73.5			P
7440-43-9	Cadmium	6.0			P
7440-47-3	Chromium	2.5	B		P
7439-92-1	Lead	1.7	U		P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW105

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

28SW108

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28008

Matrix: (soil/water) WATER Lab Sample ID: 28008.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL709.D

Level: (low/med) LOW Date Received: 12/17/96

% Moisture: not dec. _____ Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	13	
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	6	
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

28SW108

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28008

Matrix: (soil/water) WATER Lab Sample ID: 28008.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL709.D

Level: (low/med) LOW Date Received: 12/17/96

% Moisture: not dec. _____ Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	5	U
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

28SW108

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28008

Matrix: (soil/water) WATER Lab Sample ID: 28008.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P10861.D

Level: (low/med) LOW Date Received: 12/17/96

% Moisture: not dec. 0 dec. Date Extracted: 12/18/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/09/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	3	J
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	4	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	1	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

28SW108

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28008

Matrix: (soil/water) WATER Lab Sample ID: 28008.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P10861.D

Level: (low/med) LOW Date Received: 12/17/96

% Moisture: not dec. 0 dec. Date Extracted: 12/18/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/09/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	3	J
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE I

28SW108

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28008

Matrix: (soil/water) WATER Lab Sample ID: 28008.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P10861.D

Level: (low/med) LOW Date Received: 12/17/96

% Moisture: not dec. 0 dec. Date Extracted:12/18/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/09/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-9403	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

00806

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 28008 SAS No.: SDG No.: 28008

Matrix (soil/water): WATER Lab Sample ID: 28008.06

Level (low/med): LOW Date Received: 12/17/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.2	B		P
7440-39-3	Barium	264			P
7440-43-9	Cadmium	12.9			P
7440-47-3	Chromium	9.3	B		P
7439-92-1	Lead	9.0		*	P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW108

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW109

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL386.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SW109

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL386.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	5	U
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW109

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 000484.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	4	J
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	6	J U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW109

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 000484.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW109

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: O00484.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted:11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68403

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____ SDG No.: 27684B

Lab Code: SWOK__ Case No.: 27684 SAS No.: _____ Lab Sample ID: 27684.03__

Matrix (soil/water): WATER Date Received: 11/19/96

Level (low/med): LOW__

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	2.5	U		P
7440-39-3	Barium___	109			P
7440-43-9	Cadmium__	3.1	B		P
7440-47-3	Chromium_	5.7	B		P
7439-92-1	Lead____	1.7	U		P
7439-97-6	Mercury__	0.10	U		AV
7782-49-2	Selenium_	2.8	U		P
7440-22-4	Silver___	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

CLIENT_ID_=_28SW109

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW110

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.04

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL387.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	18	
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	14	
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SW110

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.04

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL387.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	5	U
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW110

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 000485.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	4	J
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	4	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	50	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	50	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW110

Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: O00485.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW110

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: O00485.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68404

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK__ Case No.: 27684 SAS No.: _____ SDG No.: 27684B
Matrix (soil/water): WATER Lab Sample ID: 27684.04__
Level (low/med): LOW__ Date Received: 11/19/96
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	2.5	U		P
7440-39-3	Barium___	127			P
7440-43-9	Cadmium__	0.50	U		P
7440-47-3	Chromium_	18.6			P
7439-92-1	Lead____	1.7	U		P
7439-97-6	Mercury__	0.10	U		AV
7782-49-2	Selenium_	2.8	U		P
7440-22-4	Silver___	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
CLIENT_ID_=_28SW110

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) WATER Lab Sample ID: 27726.08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL415.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. _____ Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) WATER Lab Sample ID: 27726.08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL415.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. _____ Date Analyzed: 11/22/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	5	U
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW111

b Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) WATER Lab Sample ID: 27726.08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK416.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 0 dec. Date Extracted: 11/22/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	50	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	50	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW111

b Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) WATER Lab Sample ID: 27726.08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK416.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 0 dec. Date Extracted: 11/22/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27726

Matrix: (soil/water) WATER Lab Sample ID: 27726.08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK416.D

Level: (low/med) LOW Date Received: 11/21/96

% Moisture: not dec. 0 dec. Date Extracted: 11/22/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

72608

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27726 SAS No.: SDG No.: 27726B

Matrix (soil/water): WATER Lab Sample ID: 27726.08

Level (low/med): LOW Date Received: 11/21/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium	42.7			P
7440-43-9	Cadmium	0.50	U		P
7440-47-3	Chromium	0.80	U		P
7439-92-1	Lead	1.7	U		P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW111

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL388.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL388.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	5	U
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW112

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: O00486.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW112

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 000486.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW112

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: O00486.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68405

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 27684 SAS No.: SDG No.: 27684B

Matrix (soil/water): WATER Lab Sample ID: 27684.05

Level (low/med): LOW Date Received: 11/19/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.6	B		P
7440-39-3	Barium	52.6			P
7440-43-9	Cadmium	0.62	B		P
7440-47-3	Chromium	6.7	B		P
7439-92-1	Lead	3.7			P
7439-97-6	Mercury	0.53			AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW112

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW114

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL389.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW114

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL389.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. _____ Date Analyzed: 11/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	5	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	5	U
103-65-1	n-PROPYLBENZENE	5	U
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW114

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 000487.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	1	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW114

b Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: O00487.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted:11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW114

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 27684

Matrix: (soil/water) WATER Lab Sample ID: 27684.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: O00487.D

Level: (low/med) LOW Date Received: 11/19/96

% Moisture: not dec. 0 dec. Date Extracted: 11/20/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 12/11/96

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

FORM I SV-3

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

68406

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK__ Case No.: 27684 SAS No.: _____ SDG No.: 27684B
Matrix (soil/water): WATER Lab Sample ID: 27684.06__
Level (low/med): LOW__ Date Received: 11/19/96
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	2.5	U		P
7440-39-3	Barium___	38.5			P
7440-43-9	Cadmium__	0.50	U		P
7440-47-3	Chromium_	1.1	B		P
7439-92-1	Lead_____	1.7	U		P
7439-97-6	Mercury__	0.10	U		AV
7782-49-2	Selenium_	2.8	U		P
7440-22-4	Silver___	1.2	U		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
CLIENT_ID_=_28SW114

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SW115

ab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) WATER Lab Sample ID: 28014.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL720.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. _____ Date Analyzed: 12/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	3	J
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	4	J
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	24	
95-47-6	o-XYLENE	11	
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SW115

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) WATER Lab Sample ID: 28014.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL720.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. _____ Date Analyzed: 12/21/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	2	J
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	5	U
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	2	J
99-87-6	p-ISOPROPYLTOLUENE	5	U
91-20-3	NAPHTHALENE	24	
103-65-1	n-PROPYLBENZENE	4	J
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	72	
108-67-8	1 3 5-TRIMETHYLBENZENE	16	
74-97-5	BROMOCHLOROMETHANE	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW115

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) WATER Lab Sample ID: 28014.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK823.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 0 dec. Date Extracted: 12/18/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/07/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	39	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	3	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW115

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) WATER Lab Sample ID: 28014.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK823.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 0 dec. Date Extracted: 12/18/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/07/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	1	J
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine_(1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
110-86-1	Pyridine	50	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SW115

Lab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) WATER Lab Sample ID: 28014.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK823.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 0 dec. Date Extracted:12/18/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/07/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

01406

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 28014 SAS No.: SDG No.: 28014B

Matrix (soil/water): WATER Lab Sample ID: 28014.06

Level (low/med): LOW Date Received: 12/18/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.2	B		P
7440-39-3	Barium	40.3			P
7440-43-9	Cadmium	3.7	B		P
7440-47-3	Chromium	2.4	B		P
7439-92-1	Lead	3.3			P
7439-97-6	Mercury	0.10	U		AV
7782-49-2	Selenium	2.8	U		P
7440-22-4	Silver	1.2	U		P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLIENT_ID_=_28SW115

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29627.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 Date Analyzed: 03/23/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	5	J
67-64-1	ACETONE	260	
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB101

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29627.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 Date Analyzed: 03/23/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
96-18-4	1 2 3-TRICHLOROPROPANE		6	U
75-71-8	DICHLORODIFLUOROMETHANE		6	U
75-69-4	TRICHLOROFLUOROMETHANE		6	U
74-95-3	DIBROMOMETHANE		6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE		6	U
108-86-1	BROMOBENZENE		6	U
104-51-8	n-BUTYLBENZENE		6	U
98-06-6	tert-BUTYLBENZENE		6	U
135-98-8	sec-BUTYLBENZENE		6	U
95-49-8	2-CHLOROTOLUENE		6	U
106-43-4	4-CHLOROTOLUENE		6	U
95-50-1	1 2-DICHLOROBENZENE		6	U
541-73-1	1 3-DICHLOROBENZENE		6	U
106-46-7	1 4-DICHLOROBENZENE		6	U
142-28-9	1 3-DICHLOROPROPANE		6	U
594-20-7	2 2-DICHLOROPROPANE		6	U
563-58-6	1 1-DICHLOROPROPENE		6	U
87-68-3	HEXACHLOROBUTADIENE		6	U
98-82-8	ISOPROPYLBENZENE		6	U
99-87-6	p-ISOPROPYLTOLUENE		6	U
91-20-3	NAPHTHALENE		6	U
103-65-1	n-PROPYLBENZENE		6	U
87-61-6	1 2 3-TRICHLOROBENZENE		6	U
120-82-1	1 2 4-TRICHLOROBENZENE		6	U
95-63-6	1 2 4-TRIMETHYLBENZENE		6	U
108-67-8	1 3 5-TRIMETHYLBENZENE		6	U
74-97-5	BROMOCHLOROMETHANE		6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29646.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 Date Analyzed: 03/24/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	2	J
67-64-1	ACETONE	240	
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29646.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 Date Analyzed: 03/24/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9691.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	bis(2-Chloroisopropyl)ether	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	280	JB
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9691.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	44	J
121-14-2	2,4-Dinitrotoluene	420	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	75	J
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenylphenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	920	
120-12-7	Anthracene	250	J
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	5200	E
129-00-0	Pyrene	4600	E
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	840	U
56-55-3	Benzo(a)anthracene	2800	
218-01-9	Chrysene	3300	
117-81-7	bis(2-Ethylhexyl)phthalate	5000	EB
117-84-0	Di-n-octylphthalate	150	J
205-99-2	Benzo(b)fluoranthene	2800	
207-08-9	Benzo(k)fluoranthene	2000	
50-32-8	Benzo(a)pyrene	2100	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenz(a,h)anthracene	440	
191-24-2	Benzo(g,h,i)perylene	1000	
110-86-1	Pyridine	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9691.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101DL

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9732.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	840	U
111-44-4	bis(2-Chloroethyl)ether	840	U
95-57-8	2-Chlorophenol	840	U
541-73-1	1,3-Dichlorobenzene	840	U
106-46-7	1,4-Dichlorobenzene	840	U
100-51-6	Benzyl alcohol	840	U
95-50-1	1,2-Dichlorobenzene	840	U
95-48-7	2-Methylphenol	840	U
108-60-1	bis(2-Chloroisopropyl)ether	840	U
106-44-5	4-Methylphenol	840	U
621-64-7	N-Nitroso-di-n-propylamine	840	U
67-72-1	Hexachloroethane	840	U
98-95-3	Nitrobenzene	840	U
78-59-1	Isophorone	840	U
88-75-5	2-Nitrophenol	840	U
105-67-9	2,4-Dimethylphenol	840	U
65-85-0	Benzoic Acid	270	JBD
111-91-1	bis(2-Chloroethoxy)methane	840	U
120-83-2	2,4-Dichlorophenol	840	U
120-82-1	1,2,4-Trichlorobenzene	840	U
91-20-3	Naphthalene	840	U
106-47-8	4-Chloroaniline	840	U
87-68-3	Hexachlorobutadiene	840	U
59-50-7	4-Chloro-3-methylphenol	840	U
91-57-6	2-Methylnaphthalene	840	U
77-47-4	Hexachlorocyclopentadiene	840	U
88-06-2	2,4,6-Trichlorophenol	840	U
95-95-4	2,4,5-Trichlorophenol	4100	U
91-58-7	2-Chloronaphthalene	840	U
88-74-4	2-Nitroaniline	4100	U
131-11-3	Dimethylphthalate	840	U
208-96-8	Acenaphthylene	840	U
606-20-2	2,6-Dinitrotoluene	840	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101DL

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9732.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4100	U
83-32-9	Acenaphthene	840	U
121-14-2	2,4-Dinitrotoluene	840	U
51-28-5	2,4-Dinitrophenol	4100	U
100-02-7	4-Nitrophenol	4100	U
132-64-9	Dibenzofuran	840	U
84-66-2	Diethylphthalate	840	U
7005-72-3	4-Chlorophenyl-phenylether	840	U
86-73-7	Fluorene	840	U
100-01-6	4-Nitroaniline	4100	U
534-52-1	4,6-Dinitro-2-methylphenol	4100	U
86-30-6	N-Nitrosodiphenylamine (1)	840	U
101-55-3	4-Bromophenylphenylether	840	U
118-74-1	Hexachlorobenzene	840	U
87-86-5	Pentachlorophenol	4100	U
85-01-8	Phenanthrene	890	D
120-12-7	Anthracene	240	JD
84-74-2	Di-n-butylphthalate	840	U
206-44-0	Fluoranthene	5300	D
129-00-0	Pyrene	4900	D
85-68-7	Butylbenzylphthalate	840	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
56-55-3	Benzo(a)anthracene	2800	D
218-01-9	Chrysene	3400	D
117-81-7	bis(2-Ethylhexyl)phthalate	5100	BD
117-84-0	Di-n-octylphthalate	130	JD
205-99-2	Benzo(b)fluoranthene	4400	D
207-08-9	Benzo(k)fluoranthene	840	U
50-32-8	Benzo(a)pyrene	2100	D
193-39-5	Indeno(1,2,3-cd)pyrene	1300	D
53-70-3	Dibenz(a,h)anthracene	470	JD
191-24-2	Benzo(g,h,i)perylene	1100	D
110-86-1	Pyridine	840	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB101DL

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.25DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9732.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 22 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	840	U

1

CLIENT SAMPLE ID

28SB101

INORGANIC ANALYSES DATA SHEET

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: 33270 SAS No.: SDG No.: 33270A
Matrix (soil/water): SOIL Lab Sample ID: 33270.25
Level (low/med): LOW Date Received: 03/20/98
% Solids: 77.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	40.2		*	P
7440-41-7	Beryllium	0.39			P
7440-43-9	Cadmium	0.73			P
7440-47-3	Chromium	7.8			P
7439-92-1	Lead	11.2		EN*	P
7439-97-6	Mercury	0.13	U	*	AV
7782-49-2	Selenium	1.4	U	WN	F
7440-22-4	Silver	0.22	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB102

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.26

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29669.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 16 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	5	JB
67-64-1	ACETONE	46	
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB102

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.26

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29669.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 16 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	J
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	3	J
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB102RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.26RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29713.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 16 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	10	
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB102RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.26RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29713.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 16 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	5	J
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB113

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33450

Matrix: (soil/water) SOIL Lab Sample ID: 33450.08

Sample wt/vol: 31.5 (g/mL) G Lab File ID: M9834.D

Level: (low/med) LOW Date Received: 04/03/98

% Moisture: not dec. 20 dec. Date Extracted: 04/07/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/10/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	bis(2-Chloroisopropyl)ether	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB113

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33450

Matrix: (soil/water) SOIL Lab Sample ID: 33450.08

Sample wt/vol: 31.5 (g/mL) G Lab File ID: M9834.D

Level: (low/med) LOW Date Received: 04/03/98

% Moisture: not dec. 20 dec. Date Extracted: 04/07/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/10/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	82	J
121-14-2	2,4-Dinitrotoluene	390	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	77	J
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	74	J
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine_(1)	390	U
101-55-3	4-Bromophenylphenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	1100	
120-12-7	Anthracene	270	J
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	2000	
129-00-0	Pyrene	2100	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)anthracene	1100	
218-01-9	Chrysene	1600	
117-81-7	bis(2-Ethylhexyl)phthalate	580	
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	2000	
207-08-9	Benzo(k)fluoranthene	1300	
50-32-8	Benzo(a)pyrene	1300	
193-39-5	Indeno(1,2,3-cd)pyrene	940	
53-70-3	Dibenz(a,h)anthracene	330	J
191-24-2	Benzo(g,h,i)perylene	840	
110-86-1	Pyridine	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB113

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33450

Matrix: (soil/water) SOIL Lab Sample ID: 33450.08

Sample wt/vol: 31.5 (g/mL) G Lab File ID: M9834.D

Level: (low/med) LOW Date Received: 04/03/98

% Moisture: not dec. 20 dec. Date Extracted: 04/07/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/10/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

28SB113

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: 33450 SAS No.: SDG No.: 33450A
Matrix (soil/water): SOIL Lab Sample ID: 33450.08
Level (low/med): LOW Date Received: 04/03/98
% Solids: 80.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.5		N	P
7440-39-3	Barium	43.2			P
7440-43-9	Cadmium	0.45	B		P
7440-47-3	Chromium	7.1		*	P
7439-92-1	Lead	6.3		EN	P
7439-97-6	Mercury	0.33			AV
7782-49-2	Selenium	1.2	U	W	F
7440-22-4	Silver	0.24	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29658.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	2	JB
67-64-1	ACETONE	7	U
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29658.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29714.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	4	J
67-64-1	ACETONE	7	U
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29714.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9692.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	470	U
111-44-4	bis(2-Chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
541-73-1	1,3-Dichlorobenzene	470	U
106-46-7	1,4-Dichlorobenzene	470	U
100-51-6	Benzyl alcohol	470	U
95-50-1	1,2-Dichlorobenzene	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	bis(2-Chloroisopropyl)ether	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
65-85-0	Benzoic Acid	340	JB
111-91-1	bis(2-Chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
120-82-1	1,2,4-Trichlorobenzene	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethylphthalate	470	U
208-96-8	Acenaphthylene	470	U
606-20-2	2,6-Dinitrotoluene	470	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9692.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	470	U
121-14-2	2,4-Dinitrotoluene	470	U
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	470	U
84-66-2	Diethylphthalate	470	U
7005-72-3	4-Chlorophenyl-phenylether	470	U
86-73-7	Fluorene	470	U
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenylphenylether	470	U
118-74-1	Hexachlorobenzene	470	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	780	
120-12-7	Anthracene	220	J
84-74-2	Di-n-butylphthalate	470	U
206-44-0	Fluoranthene	4500	
129-00-0	Pyrene	4300	
85-68-7	Butylbenzylphthalate	470	U
91-94-1	3,3'-Dichlorobenzidine	940	U
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	4500	
117-81-7	bis(2-Ethylhexyl)phthalate	5700	EB
117-84-0	Di-n-octylphthalate	410	J
205-99-2	Benzo(b)fluoranthene	4600	
207-08-9	Benzo(k)fluoranthene	3000	
50-32-8	Benzo(a)pyrene	2800	
193-39-5	Indeno(1,2,3-cd)pyrene	2000	
53-70-3	Dibenz(a,h)anthracene	660	
191-24-2	Benzo(g,h,i)perylene	1600	
110-86-1	Pyridine	470	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9692.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	470	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103DL

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9733.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	940	U
111-44-4	bis(2-Chloroethyl)ether	940	U
95-57-8	2-Chlorophenol	940	U
541-73-1	1,3-Dichlorobenzene	940	U
106-46-7	1,4-Dichlorobenzene	940	U
100-51-6	Benzyl alcohol	940	U
95-50-1	1,2-Dichlorobenzene	940	U
95-48-7	2-Methylphenol	940	U
108-60-1	bis(2-Chloroisopropyl)ether	940	U
106-44-5	4-Methylphenol	940	U
621-64-7	N-Nitroso-di-n-propylamine	940	U
67-72-1	Hexachloroethane	940	U
98-95-3	Nitrobenzene	940	U
78-59-1	Isophorone	940	U
88-75-5	2-Nitrophenol	940	U
105-67-9	2,4-Dimethylphenol	940	U
65-85-0	Benzoic Acid	320	JBD
111-91-1	bis(2-Chloroethoxy)methane	940	U
120-83-2	2,4-Dichlorophenol	940	U
120-82-1	1,2,4-Trichlorobenzene	940	U
91-20-3	Naphthalene	940	U
106-47-8	4-Chloroaniline	940	U
87-68-3	Hexachlorobutadiene	940	U
59-50-7	4-Chloro-3-methylphenol	940	U
91-57-6	2-Methylnaphthalene	940	U
77-47-4	Hexachlorocyclopentadiene	940	U
88-06-2	2,4,6-Trichlorophenol	940	U
95-95-4	2,4,5-Trichlorophenol	4600	U
91-58-7	2-Chloronaphthalene	940	U
88-74-4	2-Nitroaniline	4600	U
131-11-3	Dimethylphthalate	940	U
208-96-8	Acenaphthylene	940	U
606-20-2	2,6-Dinitrotoluene	940	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103DL

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9733.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4600	U
83-32-9	Acenaphthene	940	U
121-14-2	2,4-Dinitrotoluene	940	U
51-28-5	2,4-Dinitrophenol	4600	U
100-02-7	4-Nitrophenol	4600	U
132-64-9	Dibenzofuran	940	U
84-66-2	Diethylphthalate	940	U
7005-72-3	4-Chlorophenyl-phenylether	940	U
86-73-7	Fluorene	940	U
100-01-6	4-Nitroaniline	4600	U
534-52-1	4,6-Dinitro-2-methylphenol	4600	U
86-30-6	N-Nitrosodiphenylamine (1)	940	U
101-55-3	4-Bromophenylphenylether	940	U
118-74-1	Hexachlorobenzene	940	U
87-86-5	Pentachlorophenol	4600	U
85-01-8	Phenanthrene	770	JD
120-12-7	Anthracene	240	JD
84-74-2	Di-n-butylphthalate	940	U
206-44-0	Fluoranthene	4500	D
129-00-0	Pyrene	4600	D
85-68-7	Butylbenzylphthalate	940	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	3300	D
218-01-9	Chrysene	4800	D
117-81-7	bis(2-Ethylhexyl)phthalate	6200	BD
117-84-0	Di-n-octylphthalate	290	JD
205-99-2	Benzo(b)fluoranthene	3700	D
207-08-9	Benzo(k)fluoranthene	3300	D
50-32-8	Benzo(a)pyrene	2700	D
193-39-5	Indeno(1,2,3-cd)pyrene	1800	D
53-70-3	Dibenz(a,h)anthracene	630	JD
191-24-2	Benzo(g,h,i)perylene	1500	D
110-86-1	Pyridine	940	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB103DL

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.27DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID: M9733.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 30 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	940	U

CLIENT SAMPLE ID

28SB103

INORGANIC ANALYSES DATA SHEET

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: 33270 SAS No.: SDG No.: 33270A
Matrix (soil/water): SOIL Lab Sample ID: 33270.27
Level (low/med): LOW Date Received: 03/20/98
% Solids: 70.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.8			P
7440-39-3	Barium	78.9		*	P
7440-41-7	Beryllium	0.65			P
7440-43-9	Cadmium	5.8			P
7440-47-3	Chromium	17.9			P
7439-92-1	Lead	43.3		EN*	P
7439-97-6	Mercury	0.14	U	*	AV
7782-49-2	Selenium	1.6	U	WN	F
7440-22-4	Silver	0.24	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB104

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.28

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29655.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 14 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
74-87-3	CHLOROMETHANE		6	U
74-83-9	BROMOMETHANE		6	U
75-01-4	VINYL CHLORIDE		6	U
75-00-3	CHLOROETHANE		6	U
75-09-2	METHYLENE CHLORIDE		6	U
67-64-1	ACETONE		6	U
75-35-4	1 1-DICHLOROETHENE		6	U
75-34-3	1 1-DICHLOROETHANE		6	U
67-66-3	CHLOROFORM		6	U
107-06-2	1 2-DICHLOROETHANE		6	U
78-93-3	2-BUTANONE		6	U
71-55-6	1 1 1-TRICHLOROETHANE		6	U
56-23-5	CARBON TETRACHLORIDE		6	U
75-27-4	BROMODICHLOROMETHANE		6	U
78-87-5	1 2-DICHLOROPROPANE		6	U
79-01-6	TRICHLOROETHENE		6	U
124-48-1	DIBROMOCHLOROMETHANE		6	U
79-00-5	1 1 2-TRICHLOROETHANE		6	U
71-43-2	BENZENE		6	U
75-25-2	BROMOFORM		6	U
108-10-1	4-METHYL-2-PENTANONE		6	U
591-78-6	2-HEXANONE		6	U
127-18-4	TETRACHLOROETHENE		6	U
108-88-3	TOLUENE		2	J
79-34-5	1 1 2 2-TETRACHLOROETHANE		6	U
108-90-7	CHLOROBENZENE		13	
100-41-4	ETHYL BENZENE		6	U
100-42-5	STYRENE		6	U
156-59-2	cis-1 2-DICHLOROETHENE		6	U
156-60-5	trans-1 2-DICHLOROETHENE		6	U
13-302-07	m,p-XYLENES		6	U
95-47-6	o-XYLENE		6	U
106-93-4	1 2-DIBROMOETHANE		6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE		6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB104

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.28

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29655.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 14 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	J
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	3	J
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB104

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.28

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M9715.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 14 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	120	JB
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB104

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.28

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M9715.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 14 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	380	U
121-14-2	2,4-Dinitrotoluene	380	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenylphenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	140	JB
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U
110-86-1	Pyridine	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB104

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.28

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M9715.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 14 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

28SB104

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC

Lab Code: SWOK Case No.: 33270 SAS No.: SDG No.: 33270B

Matrix (soil/water): SOIL Lab Sample ID: 33270.28

Level (low/med): LOW Date Received: 03/20/98

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	30.2		E	P
7440-41-7	Beryllium	0.39			P
7440-43-9	Cadmium	0.40	B		P
7440-47-3	Chromium	6.2		E	P
7439-92-1	Lead	3.4		N	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	0.24	U	WN	F
7440-22-4	Silver	0.19	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB105

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.31

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29659.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB105

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.31

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29659.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	7	U
67-64-1	ACETONE	7	U
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB105RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.31RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29715.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	3	J
67-64-1	ACETONE	7	U
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB105RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.31RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29715.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB105

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.31

Sample wt/vol: 30.2 (g/mL) G Lab File ID: M9716.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 29 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2300	U
111-44-4	bis(2-Chloroethyl)ether	2300	U
95-57-8	2-Chlorophenol	2300	U
541-73-1	1,3-Dichlorobenzene	2300	U
106-46-7	1,4-Dichlorobenzene	2300	U
100-51-6	Benzyl alcohol	2300	U
95-50-1	1,2-Dichlorobenzene	2300	U
95-48-7	2-Methylphenol	2300	U
108-60-1	bis(2-Chloroisopropyl)ether	2300	U
106-44-5	4-Methylphenol	2300	U
621-64-7	N-Nitroso-di-n-propylamine	2300	U
67-72-1	Hexachloroethane	2300	U
98-95-3	Nitrobenzene	2300	U
78-59-1	Isophorone	2300	U
88-75-5	2-Nitrophenol	2300	U
105-67-9	2,4-Dimethylphenol	2300	U
65-85-0	Benzoic Acid	710	JB
111-91-1	bis(2-Chloroethoxy)methane	2300	U
120-83-2	2,4-Dichlorophenol	2300	U
120-82-1	1,2,4-Trichlorobenzene	2300	U
91-20-3	Naphthalene	2300	U
106-47-8	4-Chloroaniline	2300	U
87-68-3	Hexachlorobutadiene	2300	U
59-50-7	4-Chloro-3-methylphenol	2300	U
91-57-6	2-Methylnaphthalene	2300	U
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	2300	U
208-96-8	Acenaphthylene	2300	U
606-20-2	2,6-Dinitrotoluene	2300	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB105

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.31

Sample wt/vol: 30.2 (g/mL) G Lab File ID: M9716.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 29 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	2300	U
121-14-2	2,4-Dinitrotoluene	2300	U
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2300	U
84-66-2	Diethylphthalate	2300	U
7005-72-3	4-Chlorophenyl-phenylether	2300	U
86-73-7	Fluorene	2300	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	2300	U
101-55-3	4-Bromophenylphenylether	2300	U
118-74-1	Hexachlorobenzene	2300	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	630	J
120-12-7	Anthracene	2300	U
84-74-2	Di-n-butylphthalate	2300	U
206-44-0	Fluoranthene	1300	J
129-00-0	Pyrene	1100	J
85-68-7	Butylbenzylphthalate	2300	U
91-94-1	3,3'-Dichlorobenzidine	4600	U
56-55-3	Benzo(a)anthracene	650	J
218-01-9	Chrysene	1000	J
117-81-7	bis(2-Ethylhexyl)phthalate	1200	JB
117-84-0	Di-n-octylphthalate	2300	U
205-99-2	Benzo(b)fluoranthene	1200	J
207-08-9	Benzo(k)fluoranthene	830	J
50-32-8	Benzo(a)pyrene	700	J
193-39-5	Indeno(1,2,3-cd)pyrene	510	J
53-70-3	Dibenz(a,h)anthracene	2300	U
191-24-2	Benzo(g,h,i)perylene	490	J
110-86-1	Pyridine	2300	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB105

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.31

Sample wt/vol: 30.2 (g/mL) G Lab File ID: M9716.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 29 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	2300	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID: 28SB105

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: 33270 SAS No.: SDG No.: 33270B
Matrix (soil/water): SOIL
Level (low/med): LOW
% Solids: 74.4
Lab Sample ID: 33270.31
Date Received: 03/20/98

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	70.6		E	P
7440-41-7	Beryllium	0.49			P
7440-43-9	Cadmium	3.4			P
7440-47-3	Chromium	11.1		E	P
7439-92-1	Lead	26.7		N	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	0.28	U	N	F
7440-22-4	Silver	0.22	U		P

Color Before: BROWN
Color After: YELLOW
Clarity Before:
Clarity After:
Texture: MEDIUM
Artifacts:

Comments:

FORM I - IN

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB106

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.32

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29660.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB106

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.32

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29660.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB106

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.32

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9717.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	bis(2-Chloroisopropyl)ether	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	140	JB
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB106

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.32

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9717.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	410	U
121-14-2	2,4-Dinitrotoluene	410	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine_(1)	410	U
101-55-3	4-Bromophenylphenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	41	J
120-12-7	Anthracene	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	820	U
56-55-3	Benzo(a)anthracene	62	J
218-01-9	Chrysene	73	J
117-81-7	bis(2-Ethylhexyl)phthalate	260	JB
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	140	J
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	57	J
193-39-5	Indeno(1,2,3-cd)pyrene	41	J
53-70-3	Dibenz(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U
110-86-1	Pyridine	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB106

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.32

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9717.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID: 28SB106

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC SDG No.: 33270B
Lab Code: SWOK Case No.: 33270 SAS No.:
Matrix (soil/water): SOIL Lab Sample ID: 33270.32
Level (low/med): LOW Date Received: 03/20/98
% Solids: 80.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.4			P
7440-39-3	Barium	43.3		E	P
7440-41-7	Beryllium	0.47			P
7440-43-9	Cadmium	0.63			P
7440-47-3	Chromium	7.1		E	P
7439-92-1	Lead	7.0		N	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	0.27	U	WN	F
7440-22-4	Silver	0.21	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB107

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.33

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29662.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	7	U
74-83-9	BROMOMETHANE	7	U
75-01-4	VINYL CHLORIDE	7	U
75-00-3	CHLOROETHANE	7	U
75-09-2	METHYLENE CHLORIDE	9	B
67-64-1	ACETONE	7	U
75-35-4	1 1-DICHLOROETHENE	7	U
75-34-3	1 1-DICHLOROETHANE	7	U
67-66-3	CHLOROFORM	7	U
107-06-2	1 2-DICHLOROETHANE	7	U
78-93-3	2-BUTANONE	7	U
71-55-6	1 1 1-TRICHLOROETHANE	7	U
56-23-5	CARBON TETRACHLORIDE	7	U
75-27-4	BROMODICHLOROMETHANE	7	U
78-87-5	1 2-DICHLOROPROPANE	7	U
79-01-6	TRICHLOROETHENE	7	U
124-48-1	DIBROMOCHLOROMETHANE	7	U
79-00-5	1 1 2-TRICHLOROETHANE	7	U
71-43-2	BENZENE	7	U
75-25-2	BROMOFORM	7	U
108-10-1	4-METHYL-2-PENTANONE	7	U
591-78-6	2-HEXANONE	7	U
127-18-4	TETRACHLOROETHENE	7	U
108-88-3	TOLUENE	7	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	7	U
108-90-7	CHLOROBENZENE	7	U
100-41-4	ETHYL BENZENE	7	U
100-42-5	STYRENE	7	U
156-59-2	cis-1 2-DICHLOROETHENE	7	U
156-60-5	trans-1 2-DICHLOROETHENE	7	U
13-302-07	m,p-XYLENES	7	U
95-47-6	o-XYLENE	7	U
106-93-4	1 2-DIBROMOETHANE	7	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB107

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.33

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29662.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	7	U
75-71-8	DICHLORODIFLUOROMETHANE	7	U
75-69-4	TRICHLOROFLUOROMETHANE	7	U
74-95-3	DIBROMOMETHANE	7	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	7	U
108-86-1	BROMOBENZENE	7	U
104-51-8	n-BUTYLBENZENE	7	U
98-06-6	tert-BUTYLBENZENE	7	U
135-98-8	sec-BUTYLBENZENE	7	U
95-49-8	2-CHLOROTOLUENE	7	U
106-43-4	4-CHLOROTOLUENE	7	U
95-50-1	1 2-DICHLOROBENZENE	7	U
541-73-1	1 3-DICHLOROBENZENE	7	U
106-46-7	1 4-DICHLOROBENZENE	7	U
142-28-9	1 3-DICHLOROPROPANE	7	U
594-20-7	2 2-DICHLOROPROPANE	7	U
563-58-6	1 1-DICHLOROPROPENE	7	U
87-68-3	HEXACHLOROBUTADIENE	7	U
98-82-8	ISOPROPYLBENZENE	7	U
99-87-6	p-ISOPROPYLTOLUENE	7	U
91-20-3	NAPHTHALENE	7	U
103-65-1	n-PROPYLBENZENE	7	U
87-61-6	1 2 3-TRICHLOROBENZENE	7	U
120-82-1	1 2 4-TRICHLOROBENZENE	7	U
95-63-6	1 2 4-TRIMETHYLBENZENE	7	U
108-67-8	1 3 5-TRIMETHYLBENZENE	7	U
74-97-5	BROMOCHLOROMETHANE	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB107

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.33

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9718.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2200	U
111-44-4	bis(2-Chloroethyl)ether	2200	U
95-57-8	2-Chlorophenol	2200	U
541-73-1	1,3-Dichlorobenzene	2200	U
106-46-7	1,4-Dichlorobenzene	2200	U
100-51-6	Benzyl alcohol	2200	U
95-50-1	1,2-Dichlorobenzene	2200	U
95-48-7	2-Methylphenol	2200	U
108-60-1	bis(2-Chloroisopropyl)ether	2200	U
106-44-5	4-Methylphenol	2200	U
621-64-7	N-Nitroso-di-n-propylamine	2200	U
67-72-1	Hexachloroethane	2200	U
98-95-3	Nitrobenzene	2200	U
78-59-1	Isophorone	2200	U
88-75-5	2-Nitrophenol	2200	U
105-67-9	2,4-Dimethylphenol	2200	U
65-85-0	Benzoic Acid	690	JB
111-91-1	bis(2-Chloroethoxy)methane	2200	U
120-83-2	2,4-Dichlorophenol	2200	U
120-82-1	1,2,4-Trichlorobenzene	2200	U
91-20-3	Naphthalene	2200	U
106-47-8	4-Chloroaniline	2200	U
87-68-3	Hexachlorobutadiene	2200	U
59-50-7	4-Chloro-3-methylphenol	2200	U
91-57-6	2-Methylnaphthalene	2200	U
77-47-4	Hexachlorocyclopentadiene	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	2200	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	2200	U
208-96-8	Acenaphthylene	2200	U
606-20-2	2,6-Dinitrotoluene	2200	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB107

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.33

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9718.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	2200	U
121-14-2	2,4-Dinitrotoluene	2200	U
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2200	U
84-66-2	Diethylphthalate	2200	U
7005-72-3	4-Chlorophenyl-phenylether	2200	U
86-73-7	Fluorene	2200	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	2200	U
101-55-3	4-Bromophenylphenylether	2200	U
118-74-1	Hexachlorobenzene	2200	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	1100	J
120-12-7	Anthracene	270	J
84-74-2	Di-n-butylphthalate	2200	U
206-44-0	Fluoranthene	2200	J
129-00-0	Pyrene	1700	J
85-68-7	Butylbenzylphthalate	2200	U
91-94-1	3,3'-Dichlorobenzidine	4400	U
56-55-3	Benzo(a)anthracene	870	J
218-01-9	Chrysene	1300	J
117-81-7	bis(2-Ethylhexyl)phthalate	910	JB
117-84-0	Di-n-octylphthalate	2200	U
205-99-2	Benzo(b)fluoranthene	980	J
207-08-9	Benzo(k)fluoranthene	1000	J
50-32-8	Benzo(a)pyrene	760	J
193-39-5	Indeno(1,2,3-cd)pyrene	490	J
53-70-3	Dibenz(a,h)anthracene	2200	U
191-24-2	Benzo(g,h,i)perylene	440	J
110-86-1	Pyridine	2200	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB107

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.33

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9718.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 26 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	2200	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID: 28SB107

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: 33270 SAS No.: SDG No.: 33270B
Matrix (soil/water): SOIL Lab Sample ID: 33270.33
Level (low/med): LOW Date Received: 03/20/98
% Solids: 73.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.5			P
7440-39-3	Barium	56.9		E	P
7440-41-7	Beryllium	0.46			P
7440-43-9	Cadmium	2.8			P
7440-47-3	Chromium	11.3		E	P
7439-92-1	Lead	22.8		N	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	1.4	U	N	F
7440-22-4	Silver	0.22	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB108

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.34

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29663.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	10	B
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB108

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.34

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29663.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB108RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.34RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29716.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	7	
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	2	J
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB108RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.34RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29716.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB108

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.34

Sample wt/vol: 30.6 (g/mL) G Lab File ID: M9726.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	bis(2-Chloroisopropyl)ether	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	150	JB
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB108

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.34

Sample wt/vol: 30.6 (g/mL) G Lab File ID: M9726.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	400	U
121-14-2	2,4-Dinitrotoluene	400	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenylphenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	430	
120-12-7	Anthracene	110	J
84-74-2	Di-n-butylphthalate	51	J
206-44-0	Fluoranthene	900	
129-00-0	Pyrene	770	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	810	U
56-55-3	Benzo(a)anthracene	460	
218-01-9	Chrysene	750	
117-81-7	bis(2-Ethylhexyl)phthalate	880	B
117-84-0	Di-n-octylphthalate	110	J
205-99-2	Benzo(b)fluoranthene	840	
207-08-9	Benzo(k)fluoranthene	460	
50-32-8	Benzo(a)pyrene	590	
193-39-5	Indeno(1,2,3-cd)pyrene	440	
53-70-3	Dibenz(a,h)anthracene	160	J
191-24-2	Benzo(g,h,i)perylene	400	
110-86-1	Pyridine	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB108

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.34

Sample wt/vol: 30.6 (g/mL) G Lab File ID: M9726.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

28SB108

Lab Name: SOUTHWEST_LAB_OF_OK Contract:SAIC
Lab Code: SWOK Case No.: 33270 SAS No.: SDG No.: 33270B
Matrix (soil/water): SOIL
Level (low/med): LOW
% Solids: 79.8
Lab Sample ID: 33270.34
Date Received: 03/20/98

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.1			P
7440-39-3	Barium	48.0		E	P
7440-41-7	Beryllium	0.44			P
7440-43-9	Cadmium	2.9			P
7440-47-3	Chromium	11.0		E	P
7439-92-1	Lead	17.8		N	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	1.3	U	WN	F
7440-22-4	Silver	0.21	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB109

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.35

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29664.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 17 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	10	B
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB109

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.35

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29664.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 17 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
96-18-4	1 2 3-TRICHLOROPROPANE		6	U
75-71-8	DICHLORODIFLUOROMETHANE		6	U
75-69-4	TRICHLOROFLUOROMETHANE		6	U
74-95-3	DIBROMOMETHANE		6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE		6	U
108-86-1	BROMOBENZENE		6	U
104-51-8	n-BUTYLBENZENE		6	U
98-06-6	tert-BUTYLBENZENE		6	U
135-98-8	sec-BUTYLBENZENE		6	U
95-49-8	2-CHLOROTOLUENE		6	U
106-43-4	4-CHLOROTOLUENE		6	U
95-50-1	1 2-DICHLOROBENZENE		6	U
541-73-1	1 3-DICHLOROBENZENE		6	U
106-46-7	1 4-DICHLOROBENZENE		6	U
142-28-9	1 3-DICHLOROPROPANE		6	U
594-20-7	2 2-DICHLOROPROPANE		6	U
563-58-6	1 1-DICHLOROPROPENE		6	U
87-68-3	HEXACHLOROBUTADIENE		6	U
98-82-8	ISOPROPYLBENZENE		6	U
99-87-6	p-ISOPROPYLTOLUENE		6	U
91-20-3	NAPHTHALENE		6	U
103-65-1	n-PROPYLBENZENE		6	U
87-61-6	1 2 3-TRICHLOROBENZENE		6	U
120-82-1	1 2 4-TRICHLOROBENZENE		6	U
95-63-6	1 2 4-TRIMETHYLBENZENE		6	U
108-67-8	1 3 5-TRIMETHYLBENZENE		6	U
74-97-5	BROMOCHLOROMETHANE		6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB109RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.35RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29717.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 17 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	J
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB109RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.35RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29717.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 17 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB109

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.35

Sample wt/vol: 30.4 (g/mL) G Lab File ID: M9727.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 17 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	U
111-44-4	bis(2-Chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
100-51-6	Benzyl alcohol	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	bis(2-Chloroisopropyl)ether	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
65-85-0	Benzoic Acid	9500	U
111-91-1	bis(2-Chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	9500	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	9500	U
131-11-3	Dimethylphthalate	2000	U
208-96-8	Acenaphthylene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB109

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.35

Sample wt/vol: 30.4 (g/mL) G Lab File ID: M9727.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 17 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	9500	U
83-32-9	Acenaphthene	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
51-28-5	2,4-Dinitrophenol	9500	U
100-02-7	4-Nitrophenol	9500	U
132-64-9	Dibenzofuran	2000	U
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	2000	U
100-01-6	4-Nitroaniline	9500	U
534-52-1	4,6-Dinitro-2-methylphenol	9500	U
86-30-6	N-Nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenylphenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	9500	U
85-01-8	Phenanthrene	430	J
120-12-7	Anthracene	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	850	J
129-00-0	Pyrene	630	J
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	340	J
218-01-9	Chrysene	480	J
117-81-7	bis(2-Ethylhexyl)phthalate	710	JB
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	510	J
207-08-9	Benzo(k)fluoranthene	320	J
50-32-8	Benzo(a)pyrene	310	J
193-39-5	Indeno(1,2,3-cd)pyrene	240	J
53-70-3	Dibenz(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	250	J
110-86-1	Pyridine	2000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB109

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.35

Sample wt/vol: 30.4 (g/mL) G Lab File ID: M9727.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 17 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID: 28SB109

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: 33270 SAS No.: SDG No.: 33270B
Matrix (soil/water): SOIL
Level (low/med): LOW
% Solids: 83.0
Lab Sample ID: 33270.35
Date Received: 03/20/98

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	45.9		E	P
7440-41-7	Beryllium	0.41			P
7440-43-9	Cadmium	12.1			P
7440-47-3	Chromium	10.9		E	P
7439-92-1	Lead	22.5		N	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	1.3	U	N	F
7440-22-4	Silver	0.20	U		P

Color Before: BROWN
Color After: YELLOW
Clarity Before:
Clarity After:
Texture: MEDIUM
Artifacts:

Comments:

FORM I - IN

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB110

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.36

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29665.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 18 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	7	B
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB110

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.36

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29665.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 18 Date Analyzed: 03/25/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB110RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.36RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29718.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 18 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	J
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB110RE

Lab Name: SWL-TULSA Contract: FT HOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.36RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29718.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 18 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB110

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.36

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9728.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	U
111-44-4	bis(2-Chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
100-51-6	Benzyl alcohol	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	bis(2-Chloroisopropyl)ether	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
65-85-0	Benzoic Acid	9900	U
111-91-1	bis(2-Chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	9900	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	9900	U
131-11-3	Dimethylphthalate	2000	U
208-96-8	Acenaphthylene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB110

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.36

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9728.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	9900	U
83-32-9	Acenaphthene	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
51-28-5	2,4-Dinitrophenol	9900	U
100-02-7	4-Nitrophenol	9900	U
132-64-9	Dibenzofuran	2000	U
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	2000	U
100-01-6	4-Nitroaniline	9900	U
534-52-1	4,6-Dinitro-2-methylphenol	9900	U
86-30-6	N-Nitrosodiphenylamine_(1)	2000	U
101-55-3	4-Bromophenylphenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	9900	U
85-01-8	Phenanthrene	590	J
120-12-7	Anthracene	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	1200	J
129-00-0	Pyrene	960	J
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	4100	U
56-55-3	Benzo(a)anthracene	440	J
218-01-9	Chrysene	610	J
117-81-7	bis(2-Ethylhexyl)phthalate	960	JB
117-84-0	Di-n-octylphthalate	270	J
205-99-2	Benzo(b)fluoranthene	880	J
207-08-9	Benzo(k)fluoranthene	460	J
50-32-8	Benzo(a)pyrene	380	J
193-39-5	Indeno(1,2,3-cd)pyrene	300	J
53-70-3	Dibenz(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	300	J
110-86-1	Pyridine	2000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB110

Lab Name: SWL-TULSA Contract: FT. HOOD RF

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33270

Matrix: (soil/water) SOIL Lab Sample ID: 33270.36

Sample wt/vol: 30.3 (g/mL) G Lab File ID: M9728.D

Level: (low/med) LOW Date Received: 03/20/98

% Moisture: not dec. 20 dec. Date Extracted: 03/23/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/98

Concentrated Extract Volume: 5000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID: 28SB110

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC SDG No.: 33270B
Lab Code: SWOK Case No.: 33270 SAS No.:
Matrix (soil/water): SOIL
Level (low/med): LOW
% Solids: 81.9
Lab Sample ID: 33270.36
Date Received: 03/20/98

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	42.0		E	P
7440-41-7	Beryllium	0.35			P
7440-43-9	Cadmium	1.6			P
7440-47-3	Chromium	138		E	P
7439-92-1	Lead	530		N	P
7439-97-6	Mercury	0.04	U		AV
7782-49-2	Selenium	0.26	U	WN	F
7440-22-4	Silver	0.20	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29723.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	5	J
67-64-1	ACETONE	610	E
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
28SB111

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29723.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB111DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.09DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R29738.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/30/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	16	U
74-83-9	BROMOMETHANE	16	U
75-01-4	VINYL CHLORIDE	16	U
75-00-3	CHLOROETHANE	16	U
75-09-2	METHYLENE CHLORIDE	51	D
67-64-1	ACETONE	360	D
75-35-4	1 1-DICHLOROETHENE	16	U
75-34-3	1 1-DICHLOROETHANE	16	U
67-66-3	CHLOROFORM	16	U
107-06-2	1 2-DICHLOROETHANE	16	U
78-93-3	2-BUTANONE	16	U
71-55-6	1 1 1-TRICHLOROETHANE	16	U
56-23-5	CARBON TETRACHLORIDE	16	U
75-27-4	BROMODICHLOROMETHANE	16	U
78-87-5	1 2-DICHLOROPROPANE	16	U
79-01-6	TRICHLOROETHENE	16	U
124-48-1	DIBROMOCHLOROMETHANE	16	U
79-00-5	1 1 2-TRICHLOROETHANE	16	U
71-43-2	BENZENE	16	U
75-25-2	BROMOFORM	16	U
108-10-1	4-METHYL-2-PENTANONE	16	U
591-78-6	2-HEXANONE	16	U
127-18-4	TETRACHLOROETHENE	16	U
108-88-3	TOLUENE	16	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	16	U
108-90-7	CHLOROBENZENE	16	U
100-41-4	ETHYL BENZENE	16	U
100-42-5	STYRENE	16	U
156-59-2	cis-1 2-DICHLOROETHENE	16	U
156-60-5	trans-1 2-DICHLOROETHENE	16	U
13-302-07	m,p-XYLENES	16	U
95-47-6	o-XYLENE	16	U
106-93-4	1 2-DIBROMOETHANE	16	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	16	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB111DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.09DL

Sample wt/vol: 2.0 (g/mL) G Lab File ID: R29738.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/30/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	16	U
75-71-8	DICHLORODIFLUOROMETHANE	16	U
75-69-4	TRICHLOROFLUOROMETHANE	16	U
74-95-3	DIBROMOMETHANE	16	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	16	U
108-86-1	BROMOBENZENE	16	U
104-51-8	n-BUTYLBENZENE	16	U
98-06-6	tert-BUTYLBENZENE	16	U
135-98-8	sec-BUTYLBENZENE	16	U
95-49-8	2-CHLOROTOLUENE	16	U
106-43-4	4-CHLOROTOLUENE	16	U
95-50-1	1 2-DICHLOROBENZENE	16	U
541-73-1	1 3-DICHLOROBENZENE	16	U
106-46-7	1 4-DICHLOROBENZENE	16	U
142-28-9	1 3-DICHLOROPROPANE	16	U
594-20-7	2 2-DICHLOROPROPANE	16	U
563-58-6	1 1-DICHLOROPROPENE	16	U
87-68-3	HEXACHLOROBUTADIENE	16	U
98-82-8	ISOPROPYLBENZENE	16	U
99-87-6	p-ISOPROPYLTOLUENE	16	U
91-20-3	NAPHTHALENE	16	U
103-65-1	n-PROPYLBENZENE	16	U
87-61-6	1 2 3-TRICHLOROBENZENE	16	U
120-82-1	1 2 4-TRICHLOROBENZENE	16	U
95-63-6	1 2 4-TRIMETHYLBENZENE	16	U
108-67-8	1 3 5-TRIMETHYLBENZENE	16	U
74-97-5	BROMOCHLOROMETHANE	16	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB111

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.09

Sample wt/vol: 30.3 (g/mL) G Lab File ID: A9996.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 dec. Date Extracted: 03/25/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/01/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	bis(2-Chloroisopropyl)ether	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB111

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.09

Sample wt/vol: 30.3 (g/mL) G Lab File ID: A9996.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 dec. Date Extracted: 03/25/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/01/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	410	U
121-14-2	2,4-Dinitrotoluene	410	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenylphenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	48	J
129-00-0	Pyrene	43	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	830	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	92	JB
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U
110-86-1	Pyridine	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB111

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.09

Sample wt/vol: 30.3 (g/mL) G Lab File ID: A9996.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 dec. Date Extracted: 03/25/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/01/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U

1

CLIENT SAMPLE ID

28SB111

INORGANIC ANALYSES DATA SHEET

Lab Name: SOUTHWEST_LAB_OF_OK Contract: SAIC
Lab Code: SWOK Case No.: 33297 SAS No.: SDG No.: 33297
Matrix (soil/water): SOIL Lab Sample ID: 33297.09
Level (low/med): LOW Date Received: 03/24/98
% Solids: 78.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	96.1			P
7440-43-9	Cadmium	0.21	B		P
7440-47-3	Chromium	12.5			P
7439-92-1	Lead	7.7			P
7439-97-6	Mercury	0.04		N	AV
7782-49-2	Selenium	0.27	U	W	F
7440-22-4	Silver	0.21	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29724.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	5	J
67-64-1	ACETONE	470	E
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29724.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB112DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.10DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: R29745.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/30/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	32	U
74-83-9	BROMOMETHANE	32	U
75-01-4	VINYL CHLORIDE	32	U
75-00-3	CHLOROETHANE	32	U
75-09-2	METHYLENE CHLORIDE	25	JD
67-64-1	ACETONE	270	D
75-35-4	1 1-DICHLOROETHENE	32	U
75-34-3	1 1-DICHLOROETHANE	32	U
67-66-3	CHLOROFORM	32	U
107-06-2	1 2-DICHLOROETHANE	32	U
78-93-3	2-BUTANONE	32	U
71-55-6	1 1 1-TRICHLOROETHANE	32	U
56-23-5	CARBON TETRACHLORIDE	32	U
75-27-4	BROMODICHLOROMETHANE	32	U
78-87-5	1 2-DICHLOROPROPANE	32	U
79-01-6	TRICHLOROETHENE	32	U
124-48-1	DIBROMOCHLOROMETHANE	32	U
79-00-5	1 1 2-TRICHLOROETHANE	32	U
71-43-2	BENZENE	32	U
75-25-2	BROMOFORM	32	U
108-10-1	4-METHYL-2-PENTANONE	32	U
591-78-6	2-HEXANONE	32	U
127-18-4	TETRACHLOROETHENE	32	U
108-88-3	TOLUENE	32	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	32	U
108-90-7	CHLOROBENZENE	32	U
100-41-4	ETHYL BENZENE	32	U
100-42-5	STYRENE	32	U
156-59-2	cis-1 2-DICHLOROETHENE	32	U
156-60-5	trans-1 2-DICHLOROETHENE	32	U
13-302-07	m,p-XYLENES	32	U
95-47-6	o-XYLENE	32	U
106-93-4	1 2-DIBROMOETHANE	32	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	32	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R29724.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 Date Analyzed: 03/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1	1 2-DICHLOROBENZENE	6	U
541-73-1	1 3-DICHLOROBENZENE	6	U
106-46-7	1 4-DICHLOROBENZENE	6	U
142-28-9	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
87-68-3	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3	NAPHTHALENE	6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6	1 2 3-TRICHLOROBENZENE	6	U
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	U
108-67-8	1 3 5-TRIMETHYLBENZENE	6	U
74-97-5	BROMOCHLOROMETHANE	6	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB112

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.10

Sample wt/vol: 30.7 (g/mL) G Lab File ID: A9997.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 dec. Date Extracted: 03/25/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/01/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	bis(2-Chloroisopropyl)ether	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB112

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.10

Sample wt/vol: 30.7 (g/mL) G Lab File ID: A9997.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 dec. Date Extracted: 03/25/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/01/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	410	U
121-14-2	2,4-Dinitrotoluene	410	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenylphenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	820	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	49	JB
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U
110-86-1	Pyridine	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28SB112

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33297

Matrix: (soil/water) SOIL Lab Sample ID: 33297.10

Sample wt/vol: 30.7 (g/mL) G Lab File ID: A9997.D

Level: (low/med) LOW Date Received: 03/24/98

% Moisture: not dec. 21 dec. Date Extracted: 03/25/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/01/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U

FORM I SV-3

1

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

28SB112

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract:SAIC_____

Lab Code: SWOK__ Case No.: 33297 SAS No.: _____ SDG No.: 33297_

Matrix (soil/water): SOIL_ Lab Sample ID: 33297.10

Level (low/med): LOW__ Date Received: 03/24/98

% Solids: _78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10.3			P
7440-39-3	Barium	41.1			P
7440-43-9	Cadmium	0.22	B		P
7440-47-3	Chromium	11.2			P
7439-92-1	Lead	7.2			P
7439-97-6	Mercury	0.04	U	N	AV
7782-49-2	Selenium	0.27	U	W	F
7440-22-4	Silver	0.21	U		P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN

Location: SB101
Sample ID: 28SB101 **Depth:** 0.0-0.5
COE Sample ID: FH028-SB101/03-18-98/0.0-0.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.5	0.4			mg/kg	SW846 6010
Barium	7440-39-3	40.2	0.077	*	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.73	0.064			mg/kg	SW846 6010
Chromium	7440-47-3	7.8	0.09			mg/kg	SW846 6010
Lead	7439-92-1	11.2	0.23	EN*	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.13	0.13	*U	UJ	mg/kg	SW846 7471
Selenium	7782-49-2	1.4	1.4	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	B		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	420	420	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	420	420	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	420	420	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	420	420	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	420	420	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	420	420	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	420	420	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	840	840	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	420	420	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	44	420	J	J	ug/kg	SW846 8270
Acenaphthylene	208-96-8	420	420	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	250	420	J	J	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	2800	420			ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	2100	420			ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	2800	420			ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	1000	420			ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	2000	420			ug/kg	SW846 8270
Benzoic Acid	65-85-0	280	2000	JB	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420	420	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	5100	840	DB		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	420	420	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	3300	420			ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	420	420	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	150	420	J	J	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	440	420			ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	5300	840	D		ug/kg	SW846 8270

Location: SB101
Sample ID: 28SB101 **Depth:** 0.0-0.5
COE Sample ID: FH028-SB101/03-18-98/0.0-0.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Fluorene	86-73-7	75	420	J	J	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	420	420	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	420	420	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	420	420	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	420	420	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	1300	420			ug/kg	SW846 8270
Isophorone	78-59-1	420	420	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	420	420	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	420	420	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	420	420	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	420	420	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	920	420			ug/kg	SW846 8270
Phenol	108-95-2	420	420	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	4900	840	D		ug/kg	SW846 8270
Pyridine	110-86-1	420	420	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	240	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 28SB101 **Depth:** 0.0-0.5
COE Sample ID: FH028-SB101/03-18-98/0.0-0.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	2	6	J	J	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 28SB102 **Depth:** 1.5-1.8
COE Sample ID: FH028-SB102/03-18-98/1.5-1.8
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 28SB102 **Depth:** 1.5-1.8
COE Sample ID: FH028-SB102/03-18-98/1.5-1.8
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	10	6			ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	6	J	J	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 28SB113 **Depth:** 1.3-1.5
COE Sample ID: FH028-SB113/03-31-98/1.25-1.5
Date Collected: 3/31/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.5	0.26	N	J	mg/kg	SW846 6010
Barium	7440-39-3	43.2	0.037			mg/kg	SW846 6010
Cadmium	7440-43-9	0.45	0.037	B		mg/kg	SW846 6010
Chromium	7440-47-3	7.1	0.12	*	J	mg/kg	SW846 6010
Lead	7439-92-1	6.3	0.11	EN	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.33	0.021			mg/kg	SW846 7471
Selenium	7782-49-2	1.2	1.2	WU	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.24	0.12	B		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	390	390	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	U	U	ug/kg	SW846 8270

Location: SB101
Sample ID: 28SB113 **Depth:** 1.3-1.5
COE Sample ID: FH028-SB113/03-31-98/1.25-1.5
Date Collected: 3/31/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,6-Dinitrotoluene	606-20-2	390	390	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	82	390	J	J	ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	270	390	J	J	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	1100	390			ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	1300	390			ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	2000	390			ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	840	390			ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	1300	390			ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	580	390			ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	1600	390			ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	330	390	J	J	ug/kg	SW846 8270
Dibenzofuran	132-64-9	77	390	J	J	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	2000	390			ug/kg	SW846 8270
Fluorene	86-73-7	74	390	J	J	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	390	390	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	940	390			ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	1100	390			ug/kg	SW846 8270
Phenol	108-95-2	390	390	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	2100	390			ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U	U	ug/kg	SW846 8270

Location: SB102
Sample ID: 28SB103 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB103/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.8	0.44			mg/kg	SW846 6010
Barium	7440-39-3	78.9	0.085	*	J	mg/kg	SW846 6010
Cadmium	7440-43-9	5.8	0.071			mg/kg	SW846 6010
Chromium	7440-47-3	17.9	0.099			mg/kg	SW846 6010
Lead	7439-92-1	43.3	0.26	EN*	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.14	0.14	*U	UJ	mg/kg	SW846 7471
Selenium	7782-49-2	1.6	1.6	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.24	0.24	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	470	470	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	470	470	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	470	470	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	470	470	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	470	470	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	470	470	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2300	2300	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	470	470	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	470	470	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	470	470	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2300	2300	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	470	470	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	470	470	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	470	470	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	470	470	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	470	470	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	470	470	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2300	2300	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	470	470	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	940	940	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2300	2300	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2300	2300	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	470	470	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	470	470	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	470	470	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	470	470	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	470	470	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2300	2300	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2300	2300	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	470	470	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	470	470	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	220	470	J	J	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	3100	470			ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	2800	470			ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	4600	470			ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	1600	470			ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	3000	470			ug/kg	SW846 8270
Benzoic Acid	65-85-0	340	2300	JB	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	470	470	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	470	470	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	470	470	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	6200	940	DB		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	470	470	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	4500	470			ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	470	470	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	410	470	J	J	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	660	470			ug/kg	SW846 8270
Dibenzofuran	132-64-9	470	470	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	470	470	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	470	470	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	4500	470			ug/kg	SW846 8270

Location: SB102
Sample ID: 28SB103 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB103/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Fluorene	86-73-7	470	470	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	470	470	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	470	470	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	470	470	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	470	470	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	2000	470			ug/kg	SW846 8270
Isophorone	78-59-1	470	470	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	470	470	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	470	470	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	470	470	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	470	470	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2300	2300	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	780	470			ug/kg	SW846 8270
Phenol	108-95-2	470	470	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	4300	470			ug/kg	SW846 8270
Pyridine	110-86-1	470	470	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	7	7	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	7	7	U	U	ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 28SB103 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB103/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	2	7	JB	UJ	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	7	7	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	7	7	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 28SB104 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB104/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	6	0.35			mg/kg	SW846 6010
Barium	7440-39-3	30.2	0.068	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.4	0.057	B		mg/kg	SW846 6010
Chromium	7440-47-3	6.2	0.079	E	J	mg/kg	SW846 6010
Lead	7439-92-1	3.4	0.2	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.038	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.24	0.24	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.19	0.19	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	380	380	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	380	380	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	380	380	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	380	380	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	380	380	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	380	380	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	380	380	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	380	380	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	380	380	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	380	380	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	380	380	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	380	380	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	380	380	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	380	380	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	380	380	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	380	380	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	770	770	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	380	380	U	U	ug/kg	SW846 8270

Location: SB102
Sample ID: 28SB104 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB104/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-chloro-3-methylphenol	59-50-7	380	380	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	380	380	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	380	380	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	380	380	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	380	380	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	380	380	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	380	380	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	380	380	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	380	380	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	380	380	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	380	380	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	380	380	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	120	1900	JB	UJ	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	380	380	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	380	380	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	380	380	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	140	380	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	380	380	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	380	380	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	380	380	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	380	380	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	380	380	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	380	380	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	380	380	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	380	380	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	380	380	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	380	380	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	380	380	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	380	380	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	380	380	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	380	380	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	380	380	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	380	380	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	380	380	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	380	380	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	380	380	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	380	380	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	380	380	U	U	ug/kg	SW846 8270
Phenol	108-95-2	380	380	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	380	380	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	380	380	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	J	J	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 28SB104 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB104/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	13	6			ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	3	6	J	J	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	2	6	J	J	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 28SB105 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB105/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4	0.4			mg/kg	SW846 6010
Barium	7440-39-3	70.6	0.078	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	3.4	0.065			mg/kg	SW846 6010
Chromium	7440-47-3	11.1	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	26.7	0.23	N	J	mg/kg	SW846 6010

Location: SB103
Sample ID: 28SB105 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB105/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Mercury	7439-97-6	0.04	0.044	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.28	0.28	NU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	2300	2300	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	2300	2300	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	2300	2300	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	2300	2300	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	2300	2300	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	2300	2300	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	11000	11000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	2300	2300	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	2300	2300	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	2300	2300	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	11000	11000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	2300	2300	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	2300	2300	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	2300	2300	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	2300	2300	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	2300	2300	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	2300	2300	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	11000	11000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	2300	2300	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	4600	4600	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	11000	11000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	11000	11000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	2300	2300	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	2300	2300	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	2300	2300	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	2300	2300	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	2300	2300	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	11000	11000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	11000	11000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	2300	2300	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	2300	2300	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	2300	2300	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	650	2300	J	J	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	700	2300	J	J	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	1200	2300	J	J	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	490	2300	J	J	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	830	2300	J	J	ug/kg	SW846 8270
Benzoic Acid	65-85-0	710	11000	JB	UJ	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	2300	2300	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	2300	2300	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	2300	2300	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	1200	2300	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	2300	2300	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	1000	2300	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	2300	2300	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	2300	2300	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	2300	2300	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	2300	2300	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	2300	2300	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	2300	2300	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	1300	2300	J	J	ug/kg	SW846 8270
Fluorene	86-73-7	2300	2300	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	2300	2300	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	2300	2300	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	2300	2300	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	2300	2300	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	510	2300	J	J	ug/kg	SW846 8270

Location: SB103
Sample ID: 28SB105 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB105/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Isophorone	78-59-1	2300	2300	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	2300	2300	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	2300	2300	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	2300	2300	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	2300	2300	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	11000	11000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	630	2300	J	J	ug/kg	SW846 8270
Phenol	108-95-2	2300	2300	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	1100	2300	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	2300	2300	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	7	7	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	7	7	U	U	ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	7	7	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 28SB105 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB105/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Naphthalene	91-20-3	7	7	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	7	7	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 28SB106 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB106/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.4	0.38			mg/kg	SW846 6010
Barium	7440-39-3	43.3	0.074	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.63	0.062			mg/kg	SW846 6010
Chromium	7440-47-3	7.1	0.086	E	J	mg/kg	SW846 6010
Lead	7439-92-1	7	0.22	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.27	0.27	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	410	410	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	410	410	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	410	410	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	410	410	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	410	410	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	410	410	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	410	410	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	410	410	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	410	410	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	410	410	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	410	410	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	410	410	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	410	410	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	410	410	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	820	820	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	410	410	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	410	410	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	410	410	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	410	410	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	410	410	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270

Location: SB103
Sample ID: 28SB106 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB106/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthene	83-32-9	410	410	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	410	410	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	410	410	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	62	410	J	J	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	57	410	J	J	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	140	410	J	J	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	410	410	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	410	410	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	140	2000	JB	UJ	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	410	410	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	260	410	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	410	410	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	73	410	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	410	410	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	410	410	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	410	410	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	410	410	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	410	410	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	410	410	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	120	410	J	J	ug/kg	SW846 8270
Fluorene	86-73-7	410	410	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	410	410	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	410	410	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	410	410	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	410	410	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	41	410	J	J	ug/kg	SW846 8270
Isophorone	78-59-1	410	410	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	410	410	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	410	410	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	410	410	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	410	410	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	41	410	J	J	ug/kg	SW846 8270
Phenol	108-95-2	410	410	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	110	410	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	410	410	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 28SB106 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB106/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 28SB108 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB108/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	6.1	0.39			mg/kg	SW846 6010
Barium	7440-39-3	48	0.075	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	2.9	0.063			mg/kg	SW846 6010
Chromium	7440-47-3	11	0.088	E	J	mg/kg	SW846 6010
Lead	7439-92-1	17.8	0.22	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.042	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.3	1.3	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010

Location: SB104
Sample ID: 28SB108 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB108/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	400	400	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	400	400	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	400	400	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	400	400	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	400	400	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	810	810	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	400	400	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	110	400	J	J	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	460	400			ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	590	400			ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	840	400			ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400			ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	460	400			ug/kg	SW846 8270
Benzoic Acid	65-85-0	150	2000	JB	UJ	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	880	400	B	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	750	400			ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	51	400	J	J	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	110	400	J	J	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	160	400	J	J	ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	900	400			ug/kg	SW846 8270
Fluorene	86-73-7	400	400	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	400	400	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	400	400	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	440	400			ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U	U	ug/kg	SW846 8270

Location: SB104
Sample ID: 28SB108 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB108/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	430	400			ug/kg	SW846 8270
Phenol	108-95-2	400	400	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	770	400			ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	10	6	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 28SB108 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB108/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 28SB109 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB109/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.4	0.37			mg/kg	SW846 6010
Barium	7440-39-3	45.9	0.072	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	12.1	0.06			mg/kg	SW846 6010
Chromium	7440-47-3	10.9	0.084	E	J	mg/kg	SW846 6010
Lead	7439-92-1	22.5	0.21	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.037	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.3	1.3	NU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	2000	2000	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	2000	2000	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	2000	2000	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	2000	2000	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	2000	2000	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	2000	2000	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	9500	9500	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	9500	9500	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	2000	2000	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	2000	2000	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	2000	2000	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	2000	2000	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	2000	2000	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	2000	2000	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	9500	9500	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	2000	2000	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	3900	3900	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	9500	9500	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	9500	9500	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	2000	2000	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	2000	2000	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	2000	2000	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	2000	2000	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	2000	2000	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	9500	9500	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	9500	9500	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	2000	2000	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	2000	2000	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	340	2000	J	J	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	310	2000	J	J	ug/kg	SW846 8270

Location: SB104
Sample ID: 28SB109 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB109/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Benzo(b)fluoranthene	205-99-2	510	2000	J	J	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	250	2000	J	J	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	320	2000	J	J	ug/kg	SW846 8270
Benzoic Acid	65-85-0	9500	9500	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	2000	2000	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	2000	2000	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	2000	2000	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	710	2000	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	2000	2000	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	480	2000	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	2000	2000	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	2000	2000	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	2000	2000	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	2000	2000	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	2000	2000	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	2000	2000	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	850	2000	J	J	ug/kg	SW846 8270
Fluorene	86-73-7	2000	2000	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	2000	2000	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	2000	2000	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	2000	2000	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	2000	2000	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	240	2000	J	J	ug/kg	SW846 8270
Isophorone	78-59-1	2000	2000	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	2000	2000	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	2000	2000	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	2000	2000	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	2000	2000	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	9500	9500	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	430	2000	J	J	ug/kg	SW846 8270
Phenol	108-95-2	2000	2000	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	630	2000	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	2000	2000	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 28SB109 **Depth:** 2.3-2.5
COE Sample ID: FH028-SB109/03-18-98/2.3-2.5
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	10	6	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 28SB107 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB107/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.5	0.41			mg/kg	SW846 6010
Barium	7440-39-3	56.9	0.079	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	2.8	0.066			mg/kg	SW846 6010
Chromium	7440-47-3	11.3	0.092	E	J	mg/kg	SW846 6010
Lead	7439-92-1	22.8	0.24	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.042	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.4	1.4	NU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	2200	2200	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	2200	2200	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	2200	2200	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	2200	2200	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	2200	2200	U	U	ug/kg	SW846 8270

Location: SB105
Sample ID: 28SB107 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB107/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,2'-oxybis(1-chloropropane)	108-60-1	2200	2200	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	11000	11000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	2200	2200	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	2200	2200	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	2200	2200	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	11000	11000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	2200	2200	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	2200	2200	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	2200	2200	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	2200	2200	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	2200	2200	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	2200	2200	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	11000	11000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	2200	2200	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	4400	4400	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	11000	11000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	11000	11000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	2200	2200	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	2200	2200	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	2200	2200	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	2200	2200	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	2200	2200	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	11000	11000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	11000	11000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	2200	2200	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	2200	2200	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	270	2200	J	J	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	870	2200	J	J	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	760	2200	J	J	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	980	2200	J	J	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	440	2200	J	J	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	1000	2200	J	J	ug/kg	SW846 8270
Benzoic Acid	65-85-0	690	11000	JB	UJ	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	2200	2200	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	2200	2200	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	2200	2200	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	910	2200	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	2200	2200	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	1300	2200	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	2200	2200	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	2200	2200	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	2200	2200	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	2200	2200	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	2200	2200	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	2200	2200	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	2200	2200	J	J	ug/kg	SW846 8270
Fluorene	86-73-7	2200	2200	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	2200	2200	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	2200	2200	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	2200	2200	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	2200	2200	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	490	2200	J	J	ug/kg	SW846 8270
Isophorone	78-59-1	2200	2200	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	2200	2200	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	2200	2200	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	2200	2200	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	2200	2200	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	11000	11000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	1100	2200	J	J	ug/kg	SW846 8270
Phenol	108-95-2	2200	2200	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	1700	2200	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	2200	2200	U	U	ug/kg	SW846 8270

Location: SB105
Sample ID: 28SB107 **Depth:** 0.0-1.0
COE Sample ID: FH028-SB107/03-18-98/0.0-1.0
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	7	7	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	7	7	U	U	ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	9	7	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	7	7	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	7	7	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 28SB110 **Depth:** 2.0-2.3
COE Sample ID: FH028-SB110/03-18-98/2.0-2.3
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3	0.36			mg/kg	SW846 6010
Barium	7440-39-3	42	0.07	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	1.6	0.058			mg/kg	SW846 6010
Chromium	7440-47-3	138	0.081	E	J	mg/kg	SW846 6010
Lead	7439-92-1	530	0.21	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.26	0.26	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	2000	2000	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	2000	2000	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	2000	2000	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	2000	2000	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	2000	2000	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	2000	2000	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	9900	9900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	9900	9900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	2000	2000	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	2000	2000	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	2000	2000	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	2000	2000	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	2000	2000	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	2000	2000	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	9900	9900	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	2000	2000	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	4100	4100	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	9900	9900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	9900	9900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	2000	2000	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	2000	2000	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	2000	2000	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	2000	2000	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	2000	2000	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	9900	9900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	9900	9900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	2000	2000	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	2000	2000	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	440	2000	J	J	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	380	2000	J	J	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	880	2000	J	J	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	300	2000	J	J	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	460	2000	J	J	ug/kg	SW846 8270
Benzoic Acid	65-85-0	9900	9900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	2000	2000	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	2000	2000	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	2000	2000	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	960	2000	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	2000	2000	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	610	2000	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	2000	2000	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	270	2000	J	J	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	2000	2000	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	2000	2000	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	2000	2000	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	2000	2000	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	1200	2000	J	J	ug/kg	SW846 8270

Location: SB105
Sample ID: 28SB110 **Depth:** 2.0-2.3
COE Sample ID: FH028-SB110/03-18-98/2.0-2.3
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Fluorene	86-73-7	2000	2000	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	2000	2000	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	2000	2000	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	2000	2000	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	2000	2000	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	300	2000	J	J	ug/kg	SW846 8270
Isophorone	78-59-1	2000	2000	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	2000	2000	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	2000	2000	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	2000	2000	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	2000	2000	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	9900	9900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	590	2000	J	J	ug/kg	SW846 8270
Phenol	108-95-2	2000	2000	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	960	2000	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	2000	2000	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 28SB110 **Depth:** 2.0-2.3
COE Sample ID: FH028-SB110/03-18-98/2.0-2.3
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	7	6	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB106
Sample ID: 28SB111 **Depth:** 0.0-0.8
COE Sample ID: FH028-SB111/03-21-98/0.0-0.8
Date Collected: 3/21/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.6	0.38			mg/kg	SW846 6010
Barium	7440-39-3	96.1	0.074			mg/kg	SW846 6010
Cadmium	7440-43-9	0.21	0.062	B		mg/kg	SW846 6010
Chromium	7440-47-3	12.5	0.086			mg/kg	SW846 6010
Lead	7439-92-1	7.7	0.22			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.042	N	J	mg/kg	SW846 7471
Selenium	7782-49-2	0.27	0.27	WU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	410	410	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	410	410	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	410	410	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	410	410	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	410	410	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	410	410	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	410	410	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	410	410	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	410	410	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	410	410	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	410	410	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	410	410	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	410	410	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	410	410	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	830	830	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270

Location: SB106
Sample ID: 28SB111 **Depth:** 0.0-0.8
COE Sample ID: FH028-SB111/03-21-98/0.0-0.8
Date Collected: 3/21/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Bromophenyl-phenyl Ether	101-55-3	410	410	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	410	410	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	410	410	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	410	410	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	410	410	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	410	410	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	410	410	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	410	410	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	410	410	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	410	410	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	410	410	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	410	410	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	410	410	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	410	410	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	92	410	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	410	410	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	410	410	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	410	410	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	410	410	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	410	410	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	410	410	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	410	410	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	410	410	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	48	410	J	J	ug/kg	SW846 8270
Fluorene	86-73-7	410	410	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	410	410	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	410	410	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	410	410	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	410	410	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	410	410	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	410	410	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	410	410	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	410	410	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	410	410	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	410	410	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	410	410	U	U	ug/kg	SW846 8270
Phenol	108-95-2	410	410	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	43	410	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	410	410	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260

Location: SB106
Sample ID: 28SB111 **Depth:** 0.0-0.8
COE Sample ID: FH028-SB111/03-21-98/0.0-0.8
Date Collected: 3/21/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	610	6	E	J	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	6	J	J	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB106
Sample ID: 28SB112 **Depth:** 1.0-1.5
COE Sample ID: FH028-SB112/03-21-98/1.0-1.5
Date Collected: 3/21/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	10.3	0.39			mg/kg	SW846 6010
Barium	7440-39-3	41.1	0.075			mg/kg	SW846 6010
Cadmium	7440-43-9	0.22	0.063	B		mg/kg	SW846 6010
Chromium	7440-47-3	11.2	0.088			mg/kg	SW846 6010

Location: SB106
Sample ID: 28SB112 **Depth:** 1.0-1.5
COE Sample ID: FH028-SB112/03-21-98/1.0-1.5
Date Collected: 3/21/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Lead	7439-92-1	7.2	0.23			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	NU	UJ	mg/kg	SW846 7471
Selenium	7782-49-2	0.27	0.26	WU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	410	410	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	410	410	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	410	410	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	410	410	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	410	410	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	410	410	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	410	410	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	410	410	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	410	410	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	410	410	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	410	410	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	410	410	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	410	410	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	410	410	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	820	820	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	410	410	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	410	410	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	410	410	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	410	410	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	410	410	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	410	410	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	410	410	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	410	410	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	410	410	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	410	410	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	410	410	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	410	410	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	410	410	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	410	410	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	49	410	JB	UJ	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	410	410	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	410	410	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	410	410	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	410	410	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	410	410	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	410	410	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	410	410	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	410	410	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	410	410	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	410	410	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	410	410	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	410	410	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	410	410	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	410	410	U	U	ug/kg	SW846 8270

Location: SB106
Sample ID: 28SB112 **Depth:** 1.0-1.5
COE Sample ID: FH028-SB112/03-21-98/1.0-1.5
Date Collected: 3/21/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Indeno(1,2,3-cd)pyrene	193-39-5	410	410	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	410	410	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	410	410	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	410	410	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	410	410	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	410	410	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	410	410	U	U	ug/kg	SW846 8270
Phenol	108-95-2	410	410	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	410	410	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	410	410	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	470	6	E	J	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	6	J	J	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260

Location: SB106
Sample ID: 28SB112 **Depth:** 1.0-1.5
COE Sample ID: FH028-SB112/03-21-98/1.0-1.5
Date Collected: 3/21/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6.0	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SW101
Sample ID: 28SW101 **Depth:** NA
COE Sample ID: FH028-SW101/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	5	2.5	B	U	ug/l	SW846 6010
Barium	7440-39-3	276	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	8.6	0.50			ug/l	SW846 6010
Chromium	7440-47-3	14.8	0.80			ug/l	SW846 6010
Lead	7439-92-1	86	1.7			ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U	U	ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	8	10	J		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270

Location: SW101
Sample ID: 28SW101 **Depth:** NA
COE Sample ID: FH028-SW101/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	62	10			ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	1	10	J		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	2	10	J		ug/l	SW846 8270
Naphthalene	91-20-3	9	10	J		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	10	10	U		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	34	5			ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	17	5			ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240

Location: SW101
Sample ID: 28SW101 **Depth:** NA
COE Sample ID: FH028-SW101/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	2	5	J		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	1	5	J		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	2	5	J		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	3	5	J		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	18	5			ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	2	5	J		ug/l	SW846 8240
Naphthalene	91-20-3	22	5			ug/l	SW846 8240
o-Xylene	95-47-6	9	5			ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	2	5	J		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: SW102
Sample ID: 28SW102 **Depth:** NA
COE Sample ID: FH028-SW102/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.6	2.5	B	U	ug/l	SW846 6010
Barium	7440-39-3	67.5	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	1.4	0.50	B		ug/l	SW846 6010
Chromium	7440-47-3	12.7	0.80			ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U	U	ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010

Location: SW102
Sample ID: 28SW102 **Depth:** NA
COE Sample ID: FH028-SW102/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	3	50	J	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J	J	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270

Location: SW102
Sample ID: 28SW102 **Depth:** NA
COE Sample ID: FH028-SW102/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	10	5			ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	3	5	J		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	8	5			ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	3	5	J		ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8240
Naphthalene	91-20-3	2	5	J		ug/l	SW846 8240
o-Xylene	95-47-6	2	5	J		ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240

Location: SW102
Sample ID: 28SW102 **Depth:** NA
COE Sample ID: FH028-SW102/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	5	5	U		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: SW103
Sample ID: 28SW103 **Depth:** NA
COE Sample ID: FH028-SW103/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.9	2.5	B	U	ug/l	SW846 6010
Barium	7440-39-3	71.4	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	1.4	0.50	B		ug/l	SW846 6010
Chromium	7440-47-3	1.4	0.80	B	U	ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U	U	ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	1	10	J		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	11	10			ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	7	10	J		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270

Location: SW103
Sample ID: 28SW103 **Depth:** NA
COE Sample ID: FH028-SW103/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2.3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	10	10	U		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	76	5			ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	19	5			ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240

Location: SW103
Sample ID: 28SW103 **Depth:** NA
COE Sample ID: FH028-SW103/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	8	5			ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	3	5	J		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	2	5	J		ug/l	SW846 8240
m,p-Xylene	13-302-07	30	5			ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	3	5	J		ug/l	SW846 8240
n-propylbenzene	103-65-1	2	5	J		ug/l	SW846 8240
Naphthalene	91-20-3	43	5			ug/l	SW846 8240
o-Xylene	95-47-6	14	5			ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	1	5	J		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	3	5	J		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: SW104
Sample ID: 28SW104 **Depth:** NA
COE Sample ID: FH028-SW104/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3	2.5	B	U	ug/l	SW846 6010
Barium	7440-39-3	68	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	5.2	0.50			ug/l	SW846 6010
Chromium	7440-47-3	2.4	0.80	B	U	ug/l	SW846 6010
Lead	7439-92-1	4.5	1.7			ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U	U	ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270

Location: SW104
Sample ID: 28SW104 **Depth:** NA
COE Sample ID: FH028-SW104/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	2	50	J	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	5	10	J	J	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270

Location: SW104
Sample ID: 28SW104 **Depth:** NA
COE Sample ID: FH028-SW104/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	1	5	J		ug/l	SW846 8240
Bromoform	75-25-2	1	5	J		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	3	5	J		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	5	5	U		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: SW105
Sample ID: 28SW105 **Depth:** NA
COE Sample ID: FH028-SW105/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.9	2.5	B	U	ug/l	SW846 6010
Barium	7440-39-3	73.5	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	6	0.50			ug/l	SW846 6010
Chromium	7440-47-3	2.5	0.80	B	U	ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U	U	ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	13	10			ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	2	10	J	J	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	6	50	J	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J	J	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	2	10	J	J	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270

Location: SW105
Sample ID: 28SW105 **Depth:** NA
COE Sample ID: FH028-SW105/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	16	10			ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	2	10	J	J	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	42	5			ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	8	5			ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	4	5	J		ug/l	SW846 8240
Acetone	67-64-1	10	5			ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	2	5	J		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	3	5	J		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	4	5	J		ug/l	SW846 8240

Location: SW105
Sample ID: 28SW105 **Depth:** NA
COE Sample ID: FH028-SW105/11-20-96
Date Collected: 11/20/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	1	5	J		ug/l	SW846 8240
m,p-Xylene	13-302-07	25	5			ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	2	5	J		ug/l	SW846 8240
n-propylbenzene	103-65-1	1	5	J		ug/l	SW846 8240
Naphthalene	91-20-3	37	5			ug/l	SW846 8240
o-Xylene	95-47-6	13	5			ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	4	5	J		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: SW108
Sample ID: 28SW108 **Depth:** NA
COE Sample ID: FH028-SW108/12-14-96
Date Collected: 12/14/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.2	2.5	B		ug/l	SW846 6010
Barium	7440-39-3	264	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	12.9	0.50			ug/l	SW846 6010
Chromium	7440-47-3	9.3	0.80	B		ug/l	SW846 6010
Lead	7439-92-1	9	1.7	*	J	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U	U	ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	1	10	J		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270

Location: SW108
Sample ID: 28SW108 **Depth:** NA
COE Sample ID: FH028-SW108/12-14-96
Date Collected: 12/14/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	3	10	J		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	4	50	J		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	3	10	J		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	12	10			ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8240

Location: SW108
Sample ID: 28SW108 **Depth:** NA
COE Sample ID: FH028-SW108/12-14-96
Date Collected: 12/14/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	6	5			ug/l	SW846 8240
Acetone	67-64-1	13	5		U	ug/l	SW846 8240
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8240
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8240
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8240
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8240
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8240

Location: SW109
Sample ID: 28SD109 **Depth:** NA
COE Sample ID: FH028-SD109/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.4	0.39			mg/kg	SW846 6010
Barium	7440-39-3	46.1	0.10			mg/kg	SW846 6010
Cadmium	7440-43-9	3.9	0.05	E	J	mg/kg	SW846 6010
Chromium	7440-47-3	8	0.10	E	J	mg/kg	SW846 6010

Location: SW109
Sample ID: 28SD109 **Depth:** NA
COE Sample ID: FH028-SD109/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Lead	7439-92-1	22.9	0.17	E	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.36	0.36	U	U	mg/kg	SW846 6010
Silver	7440-22-4	0.23	0.23	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U		ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	390	390	U		ug/kg	SW846 8270B
1,2-Dichlorobenzene	95-50-1	390	390	U		ug/kg	SW846 8270B
1,3-Dichlorobenzene	541-73-1	390	390	U		ug/kg	SW846 8270B
1,4-Dichlorobenzene	106-46-7	390	390	U		ug/kg	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U		ug/kg	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	1900	1900	U		ug/kg	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	390	390	U		ug/kg	SW846 8270B
2,4-Dichlorophenol	120-83-2	390	390	U		ug/kg	SW846 8270B
2,4-Dimethylphenol	105-67-9	390	390	U		ug/kg	SW846 8270B
2,4-Dinitrophenol	51-28-5	1900	1900	U		ug/kg	SW846 8270B
2,4-Dinitrotoluene	121-14-2	390	390	U		ug/kg	SW846 8270B
2,6-Dinitrotoluene	606-20-2	390	390	U		ug/kg	SW846 8270B
2-Chloronaphthalene	91-58-7	390	390	U		ug/kg	SW846 8270B
2-Chlorophenol	95-57-8	390	390	U		ug/kg	SW846 8270B
2-Methylnaphthalene	91-57-6	200	390	J		ug/kg	SW846 8270B
2-Methylphenol	95-48-7	390	390	U		ug/kg	SW846 8270B
2-Nitroaniline	88-74-4	1900	1900	U		ug/kg	SW846 8270B
2-Nitrophenol	88-75-5	390	390	U		ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	780	780	U		ug/kg	SW846 8270B
3-Nitroaniline	99-09-2	1900	1900	U		ug/kg	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U		ug/kg	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U		ug/kg	SW846 8270B
4-chloro-3-methylphenol	59-50-7	390	390	U		ug/kg	SW846 8270B
4-Chloroaniline	106-47-8	390	390	U		ug/kg	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	390	390	U		ug/kg	SW846 8270B
4-Methylphenol	106-44-5	390	390	U		ug/kg	SW846 8270B
4-Nitroaniline	100-01-6	1900	1900	U		ug/kg	SW846 8270B
4-Nitrophenol	100-02-7	1900	1900	U		ug/kg	SW846 8270B
Acenaphthene	83-32-9	390	390	U		ug/kg	SW846 8270B
Acenaphthylene	208-96-8	390	390	U		ug/kg	SW846 8270B
Anthracene	120-12-7	390	390	U		ug/kg	SW846 8270B
Benzo(a)anthracene	56-55-3	390	390	U		ug/kg	SW846 8270B
Benzo(a)pyrene	50-32-8	390	390	U		ug/kg	SW846 8270B
Benzo(b)fluoranthene	205-99-2	390	390	U		ug/kg	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	390	390	U		ug/kg	SW846 8270B
Benzo(k)fluoranthene	207-08-9	390	390	U		ug/kg	SW846 8270B
Benzoic Acid	65-85-0	1900	1900	U		ug/kg	SW846 8270B
Benzyl Alcohol	100-51-6	390	390	U		ug/kg	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	390	390	U		ug/kg	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	390	390	U		ug/kg	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	2600	390			ug/kg	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	390	390	U		ug/kg	SW846 8270B
Chrysene	218-01-9	390	390	U		ug/kg	SW846 8270B
Di-n-butyl Phthalate	84-74-2	140	390	J		ug/kg	SW846 8270B
Di-n-octyl Phthalate	117-84-0	280	390	J		ug/kg	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	390	390	U		ug/kg	SW846 8270B
Dibenzofuran	132-64-9	390	390	U		ug/kg	SW846 8270B
Diethyl Phthalate	84-66-2	390	390	U		ug/kg	SW846 8270B
Dimethyl Phthalate	131-11-3	390	390	U		ug/kg	SW846 8270B
Fluoranthene	206-44-0	200	390	J		ug/kg	SW846 8270B
Fluorene	86-73-7	390	390	U		ug/kg	SW846 8270B
Hexachlorobenzene	118-74-1	390	390	U		ug/kg	SW846 8270B
Hexachlorobutadiene	87-68-3	390	390	U		ug/kg	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	390	390	U		ug/kg	SW846 8270B
Hexachloroethane	67-72-1	390	390	U		ug/kg	SW846 8270B

Location: SW109
Sample ID: 28SD109 **Depth:** NA
COE Sample ID: FH028-SD109/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U		ug/kg	SW846 8270B
Isophorone	78-59-1	390	390	U		ug/kg	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	390	390	U		ug/kg	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	390	390	U		ug/kg	SW846 8270B
Naphthalene	91-20-3	390	390	U		ug/kg	SW846 8270B
Nitrobenzene	98-95-3	390	390	U		ug/kg	SW846 8270B
Pentachlorophenol	87-86-5	1900	1900	U		ug/kg	SW846 8270B
Phenanthrene	85-01-8	74	390	J		ug/kg	SW846 8270B
Phenol	108-95-2	390	390	U		ug/kg	SW846 8270B
Pyrene	129-00-0	400	390			ug/kg	SW846 8270B
Pyridine	110-86-1	390	390	U		ug/kg	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	35	6			ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	6	J	J	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	55	6	B	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	3	6	J	J	ug/kg	SW846 8260
Methylene Chloride	75-09-2	19	6	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260

Location: SW109
Sample ID: 28SD109 **Depth:** NA
COE Sample ID: FH028-SD109/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	3	6	J	J	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SW109
Sample ID: 28SW109 **Depth:** NA
COE Sample ID: FH028-SW109/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.5	2.5	U		ug/l	SW846 6010
Barium	7440-39-3	109	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	3.1	0.50	B		ug/l	SW846 6010
Chromium	7440-47-3	5.7	0.80	B		ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U		ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270B
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270B
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270B
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270B
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270B
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270B
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270B
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270B
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270B
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270B
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270B
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270B
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270B
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270B
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270B
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270B
4-Methylphenol	106-44-5	4	10	J	J	ug/l	SW846 8270B
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270B

Location: SW109
Sample ID: 28SW109 **Depth:** NA
COE Sample ID: FH028-SW109/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270B
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270B
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270B
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270B
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270B
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270B
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270B
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270B
Benzoic Acid	65-85-0	6	50	J	U	ug/l	SW846 8270B
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	JB	U	ug/l	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270B
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270B
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270B
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270B
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270B
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270B
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270B
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270B
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270B
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270B
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270B
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270B
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270B
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270B
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270B
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270B
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270B
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270B
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270B
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260

Location: SW109
Sample ID: 28SW109 **Depth:** NA
COE Sample ID: FH028-SW109/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: SW110
Sample ID: 28SD110 **Depth:** NA
COE Sample ID: FH028-SD110/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.9	0.49			mg/kg	SW846 6010
Barium	7440-39-3	64.3	0.12			mg/kg	SW846 6010
Cadmium	7440-43-9	1.9	0.06	E	J	mg/kg	SW846 6010
Chromium	7440-47-3	10.4	0.12	E	J	mg/kg	SW846 6010
Lead	7439-92-1	18.6	0.21	E	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.05	0.05	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.44	0.44	U	U	mg/kg	SW846 6010
Silver	7440-22-4	0.28	0.28	U	U	mg/kg	SW846 6010

Location: SW110
Sample ID: 28SD110 **Depth:** NA
COE Sample ID: FH028-SD110/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	480	480	U		ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	480	480	U		ug/kg	SW846 8270B
1,2-Dichlorobenzene	95-50-1	480	480	U		ug/kg	SW846 8270B
1,3-Dichlorobenzene	541-73-1	480	480	U		ug/kg	SW846 8270B
1,4-Dichlorobenzene	106-46-7	480	480	U		ug/kg	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	480	480	U		ug/kg	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	2400	2400	U		ug/kg	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	480	480	U		ug/kg	SW846 8270B
2,4-Dichlorophenol	120-83-2	480	480	U		ug/kg	SW846 8270B
2,4-Dimethylphenol	105-67-9	480	480	U		ug/kg	SW846 8270B
2,4-Dinitrophenol	51-28-5	2400	2400	U		ug/kg	SW846 8270B
2,4-Dinitrotoluene	121-14-2	480	480	U		ug/kg	SW846 8270B
2,6-Dinitrotoluene	606-20-2	480	480	U		ug/kg	SW846 8270B
2-Chloronaphthalene	91-58-7	480	480	U		ug/kg	SW846 8270B
2-Chlorophenol	95-57-8	480	480	U		ug/kg	SW846 8270B
2-Methylnaphthalene	91-57-6	480	480	U		ug/kg	SW846 8270B
2-Methylphenol	95-48-7	480	480	U		ug/kg	SW846 8270B
2-Nitroaniline	88-74-4	2400	2400	U		ug/kg	SW846 8270B
2-Nitrophenol	88-75-5	480	480	U		ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	970	970	U		ug/kg	SW846 8270B
3-Nitroaniline	99-09-2	2400	2400	U		ug/kg	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	2400	2400	U		ug/kg	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	480	480	U		ug/kg	SW846 8270B
4-chloro-3-methylphenol	59-50-7	480	480	U		ug/kg	SW846 8270B
4-Chloroaniline	106-47-8	480	480	U		ug/kg	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	480	480	U		ug/kg	SW846 8270B
4-Methylphenol	106-44-5	480	480	U		ug/kg	SW846 8270B
4-Nitroaniline	100-01-6	2400	2400	U		ug/kg	SW846 8270B
4-Nitrophenol	100-02-7	2400	2400	U		ug/kg	SW846 8270B
Acenaphthene	83-32-9	480	480	U		ug/kg	SW846 8270B
Acenaphthylene	208-96-8	480	480	U		ug/kg	SW846 8270B
Anthracene	120-12-7	480	480	U		ug/kg	SW846 8270B
Benzo(a)anthracene	56-55-3	58	480	J		ug/kg	SW846 8270B
Benzo(a)pyrene	50-32-8	480	480	U		ug/kg	SW846 8270B
Benzo(b)fluoranthene	205-99-2	480	480	U		ug/kg	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	480	480	U		ug/kg	SW846 8270B
Benzo(k)fluoranthene	207-08-9	480	480	U		ug/kg	SW846 8270B
Benzoic Acid	65-85-0	2400	2400	U		ug/kg	SW846 8270B
Benzyl Alcohol	100-51-6	480	480	U		ug/kg	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	480	480	U		ug/kg	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	480	480	U		ug/kg	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	420	480	J		ug/kg	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	480	480	U		ug/kg	SW846 8270B
Chrysene	218-01-9	85	480	J		ug/kg	SW846 8270B
Di-n-butyl Phthalate	84-74-2	480	480	U		ug/kg	SW846 8270B
Di-n-octyl Phthalate	117-84-0	480	480	U		ug/kg	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	480	480	U		ug/kg	SW846 8270B
Dibenzofuran	132-64-9	480	480	U		ug/kg	SW846 8270B
Diethyl Phthalate	84-66-2	480	480	U		ug/kg	SW846 8270B
Dimethyl Phthalate	131-11-3	480	480	U		ug/kg	SW846 8270B
Fluoranthene	206-44-0	120	480	J		ug/kg	SW846 8270B
Fluorene	86-73-7	480	480	U		ug/kg	SW846 8270B
Hexachlorobenzene	118-74-1	480	480	U		ug/kg	SW846 8270B
Hexachlorobutadiene	87-68-3	480	480	U		ug/kg	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	480	480	U		ug/kg	SW846 8270B
Hexachloroethane	67-72-1	480	480	U		ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	480	480	U		ug/kg	SW846 8270B
Isophorone	78-59-1	480	480	U		ug/kg	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	480	480	U		ug/kg	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	480	480	U		ug/kg	SW846 8270B
Naphthalene	91-20-3	480	480	U		ug/kg	SW846 8270B
Nitrobenzene	98-95-3	480	480	U		ug/kg	SW846 8270B

Location: SW110
Sample ID: 28SD110 **Depth:** NA
COE Sample ID: FH028-SD110/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Pentachlorophenol	87-86-5	2400	2400	U		ug/kg	SW846 8270B
Phenanthrene	85-01-8	480	480	U		ug/kg	SW846 8270B
Phenol	108-95-2	480	480	U		ug/kg	SW846 8270B
Pyrene	129-00-0	180	480	J		ug/kg	SW846 8270B
Pyridine	110-86-1	480	480	U		ug/kg	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	40	7			ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	320	7	EB	J	ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	7	7	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	7	7	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260

Location: SW110
Sample ID: 28SD110 **Depth:** NA
COE Sample ID: FH028-SD110/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	11	7			ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SW110
Sample ID: 28SW110 **Depth:** NA
COE Sample ID: FH028-SW110/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.5	2.5	U		ug/l	SW846 6010
Barium	7440-39-3	127	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.50	U		ug/l	SW846 6010
Chromium	7440-47-3	18.6	0.80			ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U		ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270B
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270B
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270B
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270B
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270B
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270B
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270B
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270B
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270B
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270B
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270B
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270B
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270B
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270B
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270B
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270B
4-Methylphenol	106-44-5	4	10	J	J	ug/l	SW846 8270B
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270B
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270B
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270B
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270B
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270B
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270B
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270B

Location: SW110
Sample ID: 28SW110 **Depth:** NA
COE Sample ID: FH028-SW110/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270B
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270B
Benzoic Acid	65-85-0	4	50	J	U	ug/l	SW846 8270B
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	JB	U	ug/l	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270B
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270B
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270B
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270B
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270B
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270B
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270B
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270B
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270B
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270B
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270B
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270B
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270B
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270B
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270B
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270B
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270B
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270B
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270B
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	14	5			ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260

Location: SW110
Sample ID: 28SW110 **Depth:** NA
COE Sample ID: FH028-SW110/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	18	5		U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

Location: SW111
Sample ID: 28SD111 **Depth:** NA
COE Sample ID: FH028-SD111/11-19-96
Date Collected: 11/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.1	0.34	*		mg/kg	SW846 6010
Barium	7440-39-3	95.1	0.04			mg/kg	SW846 6010
Cadmium	7440-43-9	0.94	0.07			mg/kg	SW846 6010
Chromium	7440-47-3	8.9	0.11			mg/kg	SW846 6010
Lead	7439-92-1	12	0.23			mg/kg	SW846 6010
Mercury	7439-97-6	0.02	0.02	U		mg/kg	SW846 6010
Selenium	7782-49-2	0.38	0.38	U		mg/kg	SW846 6010
Silver	7440-22-4	0.16	0.16	U		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	450	450	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	450	450	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	450	450	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	450	450	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	450	450	U		ug/kg	SW846 8270

Location: SW111
Sample ID: 28SD111 **Depth:** NA
COE Sample ID: FH028-SD111/11-19-96
Date Collected: 11/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,2'-oxybis(1-chloropropane)	108-60-1	450	450	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2200	2200	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	450	450	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	450	450	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	450	450	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2200	2200	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	450	450	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	450	450	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	450	450	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	450	450	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	450	450	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	450	450	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2200	2200	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	450	450	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	900	900	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2200	2200	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2200	2200	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	450	450	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	450	450	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	450	450	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	450	450	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	450	450	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2200	2200	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2200	2200	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	450	450	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	450	450	U		ug/kg	SW846 8270
Anthracene	120-12-7	450	450	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	48	450	J		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	51	450	J		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	450	450	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	450	450	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	65	450	J		ug/kg	SW846 8270
Benzoic Acid	65-85-0	2200	2200	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	450	450	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	450	450	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	450	450	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	660	450			ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	93	450	J		ug/kg	SW846 8270
Chrysene	218-01-9	66	450	J		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	450	450	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	120	450	J		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	450	450	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	450	450	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	450	450	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	450	450	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	110	450	J		ug/kg	SW846 8270
Fluorene	86-73-7	51	450	J		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	450	450	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	450	450	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	450	450	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	450	450	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	450	450	U		ug/kg	SW846 8270
Isophorone	78-59-1	450	450	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	450	450	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	450	450	U		ug/kg	SW846 8270
Naphthalene	91-20-3	450	450	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	450	450	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2200	2200	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	120	450	J		ug/kg	SW846 8270
Phenol	108-95-2	450	450	U		ug/kg	SW846 8270
Pyrene	129-00-0	140	450	J		ug/kg	SW846 8270
Pyridine	110-86-1	450	450	U		ug/kg	SW846 8270

Location: SW111
Sample ID: 28SD111 **Depth:** NA
COE Sample ID: FH028-SD111/11-19-96
Date Collected: 11/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	8	7			ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	99	7	B		ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	7	7	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	7	7	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	7	7	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SW111
Sample ID: 28SW111 **Depth:** NA
COE Sample ID: FH028-SW111/11-19-96
Date Collected: 11/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.5	2.5	U		ug/l	SW846 6010
Barium	7440-39-3	42.7	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.50	U		ug/l	SW846 6010
Chromium	7440-47-3	0.8	0.80	U		ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U		ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270

Location: SW111
Sample ID: 28SW111 **Depth:** NA
COE Sample ID: FH028-SW111/11-19-96
Date Collected: 11/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	10	10	U		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240

Location: SW111
Sample ID: 28SW111 **Depth:** NA
COE Sample ID: FH028-SW111/11-19-96
Date Collected: 11/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	5	5	U		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: SW112
Sample ID: 28SD112 **Depth:** NA
COE Sample ID: FH028-SD112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	6.9	0.49			mg/kg	SW846 6010
Barium	7440-39-3	112	0.12			mg/kg	SW846 6010
Cadmium	7440-43-9	0.65	0.06	BE	J	mg/kg	SW846 6010
Chromium	7440-47-3	16.3	0.12	E	J	mg/kg	SW846 6010
Lead	7439-92-1	15	0.21	E	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.05	0.05	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.45	0.45	U	U	mg/kg	SW846 6010
Silver	7440-22-4	0.28	0.28	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	490	490	U		ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	490	490	U		ug/kg	SW846 8270B
1,2-Dichlorobenzene	95-50-1	490	490	U		ug/kg	SW846 8270B
1,3-Dichlorobenzene	541-73-1	490	490	U		ug/kg	SW846 8270B
1,4-Dichlorobenzene	106-46-7	490	490	U		ug/kg	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	490	490	U		ug/kg	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	2400	2400	U		ug/kg	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	490	490	U		ug/kg	SW846 8270B
2,4-Dichlorophenol	120-83-2	490	490	U		ug/kg	SW846 8270B
2,4-Dimethylphenol	105-67-9	490	490	U		ug/kg	SW846 8270B
2,4-Dinitrophenol	51-28-5	2400	2400	U		ug/kg	SW846 8270B
2,4-Dinitrotoluene	121-14-2	490	490	U		ug/kg	SW846 8270B
2,6-Dinitrotoluene	606-20-2	490	490	U		ug/kg	SW846 8270B
2-Chloronaphthalene	91-58-7	490	490	U		ug/kg	SW846 8270B
2-Chlorophenol	95-57-8	490	490	U		ug/kg	SW846 8270B
2-Methylnaphthalene	91-57-6	490	490	U		ug/kg	SW846 8270B
2-Methylphenol	95-48-7	490	490	U		ug/kg	SW846 8270B
2-Nitroaniline	88-74-4	2400	2400	U		ug/kg	SW846 8270B
2-Nitrophenol	88-75-5	490	490	U		ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	980	980	U		ug/kg	SW846 8270B
3-Nitroaniline	99-09-2	2400	2400	U		ug/kg	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	2400	2400	U		ug/kg	SW846 8270B

Location: SW112
Sample ID: 28SD112 **Depth:** NA
COE Sample ID: FH028-SD112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Bromophenyl-phenyl Ether	101-55-3	490	490	U		ug/kg	SW846 8270B
4-chloro-3-methylphenol	59-50-7	490	490	U		ug/kg	SW846 8270B
4-Chloroaniline	106-47-8	490	490	U		ug/kg	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	490	490	U		ug/kg	SW846 8270B
4-Methylphenol	106-44-5	490	490	U		ug/kg	SW846 8270B
4-Nitroaniline	100-01-6	2400	2400	U		ug/kg	SW846 8270B
4-Nitrophenol	100-02-7	2400	2400	U		ug/kg	SW846 8270B
Acenaphthene	83-32-9	490	490	U		ug/kg	SW846 8270B
Acenaphthylene	208-96-8	490	490	U		ug/kg	SW846 8270B
Anthracene	120-12-7	490	490	U		ug/kg	SW846 8270B
Benzo(a)anthracene	56-55-3	490	490	U		ug/kg	SW846 8270B
Benzo(a)pyrene	50-32-8	490	490	U		ug/kg	SW846 8270B
Benzo(b)fluoranthene	205-99-2	490	490	U		ug/kg	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	490	490	U		ug/kg	SW846 8270B
Benzo(k)fluoranthene	207-08-9	490	490	U		ug/kg	SW846 8270B
Benzoic Acid	65-85-0	2400	2400	U		ug/kg	SW846 8270B
Benzyl Alcohol	100-51-6	490	490	U		ug/kg	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	490	490	U		ug/kg	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	490	490	U		ug/kg	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	170	490	J		ug/kg	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	490	490	U		ug/kg	SW846 8270B
Chrysene	218-01-9	490	490	U		ug/kg	SW846 8270B
Di-n-butyl Phthalate	84-74-2	490	490	U		ug/kg	SW846 8270B
Di-n-octyl Phthalate	117-84-0	490	490	U		ug/kg	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	490	490	U		ug/kg	SW846 8270B
Dibenzofuran	132-64-9	490	490	U		ug/kg	SW846 8270B
Diethyl Phthalate	84-66-2	490	490	U		ug/kg	SW846 8270B
Dimethyl Phthalate	131-11-3	490	490	U		ug/kg	SW846 8270B
Fluoranthene	206-44-0	490	490	U		ug/kg	SW846 8270B
Fluorene	86-73-7	490	490	U		ug/kg	SW846 8270B
Hexachlorobenzene	118-74-1	490	490	U		ug/kg	SW846 8270B
Hexachlorobutadiene	87-68-3	490	490	U		ug/kg	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	490	490	U		ug/kg	SW846 8270B
Hexachloroethane	67-72-1	490	490	U		ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	490	490	U		ug/kg	SW846 8270B
Isophorone	78-59-1	490	490	U		ug/kg	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	490	490	U		ug/kg	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	490	490	U		ug/kg	SW846 8270B
Naphthalene	91-20-3	490	490	U		ug/kg	SW846 8270B
Nitrobenzene	98-95-3	490	490	U		ug/kg	SW846 8270B
Pentachlorophenol	87-86-5	2400	2400	U		ug/kg	SW846 8270B
Phenanthrene	85-01-8	490	490	U		ug/kg	SW846 8270B
Phenol	108-95-2	490	490	U		ug/kg	SW846 8270B
Pyrene	129-00-0	490	490	U		ug/kg	SW846 8270B
Pyridine	110-86-1	490	490	U		ug/kg	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260

Location: SW112
Sample ID: 28SD112 **Depth:** NA
COE Sample ID: FH028-SD112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	7	7	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	93	7	B		ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	24	7	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	7	7	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	12	7			ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SW112
Sample ID: 28SW112 **Depth:** NA
COE Sample ID: FH028-SW112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.6	2.5	B		ug/l	SW846 6010
Barium	7440-39-3	52.6	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	0.62	0.50	B		ug/l	SW846 6010
Chromium	7440-47-3	6.7	0.80	B		ug/l	SW846 6010

Location: SW112
Sample ID: 28SW112 **Depth:** NA
COE Sample ID: FH028-SW112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Lead	7439-92-1	3.7	1.7			ug/l	SW846 6010
Mercury	7439-97-6	0.53	0.10			ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270B
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270B
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270B
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270B
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270B
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270B
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270B
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270B
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270B
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270B
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270B
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270B
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270B
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270B
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270B
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270B
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270B
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270B
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270B
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270B
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270B
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270B
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270B
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270B
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270B
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270B
Benzoic Acid	65-85-0	50	50	U	U	ug/l	SW846 8270B
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	JB	U	ug/l	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270B
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270B
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270B
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270B
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270B
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270B
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270B
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270B
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270B
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270B
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270B
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270B

Location: SW112
Sample ID: 28SW112 **Depth:** NA
COE Sample ID: FH028-SW112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270B
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270B
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270B
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270B
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270B
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270B
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270B
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270B
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260

Location: SW112
Sample ID: 28SW112 **Depth:** NA
COE Sample ID: FH028-SW112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: SW113
Sample ID: 28SD113 **Depth:** NA
COE Sample ID: FH028-SD112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	5.5	0.39			mg/kg	SW846 6010
Barium	7440-39-3	70.2	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.76	0.05	E	J	mg/kg	SW846 6010
Chromium	7440-47-3	10.4	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	10.7	0.17	E	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.36	0.36	U	U	mg/kg	SW846 6010
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U		ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	390	390	U		ug/kg	SW846 8270B
1,2-Dichlorobenzene	95-50-1	390	390	U		ug/kg	SW846 8270B
1,3-Dichlorobenzene	541-73-1	390	390	U		ug/kg	SW846 8270B
1,4-Dichlorobenzene	106-46-7	390	390	U		ug/kg	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U		ug/kg	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	1900	1900	U		ug/kg	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	390	390	U		ug/kg	SW846 8270B
2,4-Dichlorophenol	120-83-2	390	390	U		ug/kg	SW846 8270B
2,4-Dimethylphenol	105-67-9	390	390	U		ug/kg	SW846 8270B
2,4-Dinitrophenol	51-28-5	1900	1900	U		ug/kg	SW846 8270B
2,4-Dinitrotoluene	121-14-2	390	390	U		ug/kg	SW846 8270B
2,6-Dinitrotoluene	606-20-2	390	390	U		ug/kg	SW846 8270B
2-Chloronaphthalene	91-58-7	390	390	U		ug/kg	SW846 8270B
2-Chlorophenol	95-57-8	390	390	U		ug/kg	SW846 8270B
2-Methylnaphthalene	91-57-6	390	390	U		ug/kg	SW846 8270B
2-Methylphenol	95-48-7	390	390	U		ug/kg	SW846 8270B
2-Nitroaniline	88-74-4	1900	1900	U		ug/kg	SW846 8270B
2-Nitrophenol	88-75-5	390	390	U		ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	780	780	U		ug/kg	SW846 8270B
3-Nitroaniline	99-09-2	1900	1900	U		ug/kg	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U		ug/kg	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U		ug/kg	SW846 8270B
4-chloro-3-methylphenol	59-50-7	390	390	U		ug/kg	SW846 8270B
4-Chloroaniline	106-47-8	390	390	U		ug/kg	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	390	390	U		ug/kg	SW846 8270B
4-Methylphenol	106-44-5	390	390	U		ug/kg	SW846 8270B

Location: SW113
Sample ID: 28SD113 **Depth:** NA
COE Sample ID: FH028-SD112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Nitroaniline	100-01-6	1900	1900	U		ug/kg	SW846 8270B
4-Nitrophenol	100-02-7	1900	1900	U		ug/kg	SW846 8270B
Acenaphthene	83-32-9	390	390	U		ug/kg	SW846 8270B
Acenaphthylene	208-96-8	390	390	U		ug/kg	SW846 8270B
Anthracene	120-12-7	390	390	U		ug/kg	SW846 8270B
Benzo(a)anthracene	56-55-3	390	390	U		ug/kg	SW846 8270B
Benzo(a)pyrene	50-32-8	390	390	U		ug/kg	SW846 8270B
Benzo(b)fluoranthene	205-99-2	390	390	U		ug/kg	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	390	390	U		ug/kg	SW846 8270B
Benzo(k)fluoranthene	207-08-9	390	390	U		ug/kg	SW846 8270B
Benzoic Acid	65-85-0	1900	1900	U		ug/kg	SW846 8270B
Benzyl Alcohol	100-51-6	390	390	U		ug/kg	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	390	390	U		ug/kg	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	390	390	U		ug/kg	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	150	390	J		ug/kg	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	390	390	U		ug/kg	SW846 8270B
Chrysene	218-01-9	390	390	U		ug/kg	SW846 8270B
Di-n-butyl Phthalate	84-74-2	390	390	U		ug/kg	SW846 8270B
Di-n-octyl Phthalate	117-84-0	390	390	U		ug/kg	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	390	390	U		ug/kg	SW846 8270B
Dibenzofuran	132-64-9	390	390	U		ug/kg	SW846 8270B
Diethyl Phthalate	84-66-2	390	390	U		ug/kg	SW846 8270B
Dimethyl Phthalate	131-11-3	390	390	U		ug/kg	SW846 8270B
Fluoranthene	206-44-0	390	390	U		ug/kg	SW846 8270B
Fluorene	86-73-7	390	390	U		ug/kg	SW846 8270B
Hexachlorobenzene	118-74-1	390	390	U		ug/kg	SW846 8270B
Hexachlorobutadiene	87-68-3	390	390	U		ug/kg	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	390	390	U		ug/kg	SW846 8270B
Hexachloroethane	67-72-1	390	390	U		ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U		ug/kg	SW846 8270B
Isophorone	78-59-1	390	390	U		ug/kg	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	390	390	U		ug/kg	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	390	390	U		ug/kg	SW846 8270B
Naphthalene	91-20-3	390	390	U		ug/kg	SW846 8270B
Nitrobenzene	98-95-3	390	390	U		ug/kg	SW846 8270B
Pentachlorophenol	87-86-5	1900	1900	U		ug/kg	SW846 8270B
Phenanthrene	85-01-8	390	390	U		ug/kg	SW846 8270B
Phenol	108-95-2	390	390	U		ug/kg	SW846 8270B
Pyrene	129-00-0	390	390	U		ug/kg	SW846 8270B
Pyridine	110-86-1	390	390	U		ug/kg	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260

Location: SW113
Sample ID: 28SD113 **Depth:** NA
COE Sample ID: FH028-SD112/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	3	6	JB	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SW114
Sample ID: 28SD114 **Depth:** NA
COE Sample ID: FH028-SD114/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	6.4	0.48			mg/kg	SW846 6010
Barium	7440-39-3	94	0.12			mg/kg	SW846 6010
Cadmium	7440-43-9	0.95	0.06	E	J	mg/kg	SW846 6010
Chromium	7440-47-3	12.6	0.12	E	J	mg/kg	SW846 6010
Lead	7439-92-1	21.1	0.20	E	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.05	0.05	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.54	0.43	B		mg/kg	SW846 6010
Silver	7440-22-4	0.27	0.27	U	U	mg/kg	SW846 6010

Location: SW114
Sample ID: 28SD114 **Depth:** NA
COE Sample ID: FH028-SD114/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	480	480	U		ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	480	480	U		ug/kg	SW846 8270B
1,2-Dichlorobenzene	95-50-1	480	480	U		ug/kg	SW846 8270B
1,3-Dichlorobenzene	541-73-1	480	480	U		ug/kg	SW846 8270B
1,4-Dichlorobenzene	106-46-7	480	480	U		ug/kg	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	480	480	U		ug/kg	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	2300	2300	U		ug/kg	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	480	480	U		ug/kg	SW846 8270B
2,4-Dichlorophenol	120-83-2	480	480	U		ug/kg	SW846 8270B
2,4-Dimethylphenol	105-67-9	480	480	U		ug/kg	SW846 8270B
2,4-Dinitrophenol	51-28-5	2300	2300	U		ug/kg	SW846 8270B
2,4-Dinitrotoluene	121-14-2	480	480	U		ug/kg	SW846 8270B
2,6-Dinitrotoluene	606-20-2	480	480	U		ug/kg	SW846 8270B
2-Chloronaphthalene	91-58-7	480	480	U		ug/kg	SW846 8270B
2-Chlorophenol	95-57-8	480	480	U		ug/kg	SW846 8270B
2-Methylnaphthalene	91-57-6	480	480	U		ug/kg	SW846 8270B
2-Methylphenol	95-48-7	480	480	U		ug/kg	SW846 8270B
2-Nitroaniline	88-74-4	2300	2300	U		ug/kg	SW846 8270B
2-Nitrophenol	88-75-5	480	480	U		ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	960	960	U		ug/kg	SW846 8270B
3-Nitroaniline	99-09-2	2300	2300	U		ug/kg	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	2300	2300	U		ug/kg	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	480	480	U		ug/kg	SW846 8270B
4-chloro-3-methylphenol	59-50-7	480	480	U		ug/kg	SW846 8270B
4-Chloroaniline	106-47-8	480	480	U		ug/kg	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	480	480	U		ug/kg	SW846 8270B
4-Methylphenol	106-44-5	480	480	U		ug/kg	SW846 8270B
4-Nitroaniline	100-01-6	2300	2300	U		ug/kg	SW846 8270B
4-Nitrophenol	100-02-7	2300	2300	U		ug/kg	SW846 8270B
Acenaphthene	83-32-9	480	480	U		ug/kg	SW846 8270B
Acenaphthylene	208-96-8	480	480	U		ug/kg	SW846 8270B
Anthracene	120-12-7	480	480	U		ug/kg	SW846 8270B
Benzo(a)anthracene	56-55-3	480	480	U		ug/kg	SW846 8270B
Benzo(a)pyrene	50-32-8	480	480	U		ug/kg	SW846 8270B
Benzo(b)fluoranthene	205-99-2	480	480	U		ug/kg	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	480	480	U		ug/kg	SW846 8270B
Benzo(k)fluoranthene	207-08-9	480	480	U		ug/kg	SW846 8270B
Benzoic Acid	65-85-0	2300	2300	U		ug/kg	SW846 8270B
Benzyl Alcohol	100-51-6	480	480	U		ug/kg	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	480	480	U		ug/kg	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	480	480	U		ug/kg	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	50	480	J		ug/kg	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	480	480	U		ug/kg	SW846 8270B
Chrysene	218-01-9	480	480	U		ug/kg	SW846 8270B
Di-n-butyl Phthalate	84-74-2	480	480	U		ug/kg	SW846 8270B
Di-n-octyl Phthalate	117-84-0	480	480	U		ug/kg	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	480	480	U		ug/kg	SW846 8270B
Dibenzofuran	132-64-9	480	480	U		ug/kg	SW846 8270B
Diethyl Phthalate	84-66-2	480	480	U		ug/kg	SW846 8270B
Dimethyl Phthalate	131-11-3	480	480	U		ug/kg	SW846 8270B
Fluoranthene	206-44-0	480	480	U		ug/kg	SW846 8270B
Fluorene	86-73-7	480	480	U		ug/kg	SW846 8270B
Hexachlorobenzene	118-74-1	480	480	U		ug/kg	SW846 8270B
Hexachlorobutadiene	87-68-3	480	480	U		ug/kg	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	480	480	U		ug/kg	SW846 8270B
Hexachloroethane	67-72-1	480	480	U		ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	480	480	U		ug/kg	SW846 8270B
Isophorone	78-59-1	480	480	U		ug/kg	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	480	480	U		ug/kg	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	480	480	U		ug/kg	SW846 8270B
Naphthalene	91-20-3	480	480	U		ug/kg	SW846 8270B
Nitrobenzene	98-95-3	480	480	U		ug/kg	SW846 8270B

Location: SW114
Sample ID: 28SD114 **Depth:** NA
COE Sample ID: FH028-SD114/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Pentachlorophenol	87-86-5	2300	2300	U		ug/kg	SW846 8270B
Phenanthrene	85-01-8	480	480	U		ug/kg	SW846 8270B
Phenol	108-95-2	480	480	U		ug/kg	SW846 8270B
Pyrene	129-00-0	480	480	U		ug/kg	SW846 8270B
Pyridine	110-86-1	480	480	U		ug/kg	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	7	7	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	7	7	U	U	ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	22	7	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	7	7	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260

Location: SW114
Sample ID: 28SD114 **Depth:** NA
COE Sample ID: FH028-SD114/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	29	7			ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SW114
Sample ID: 28SW114 **Depth:** NA
COE Sample ID: FH028-SW114/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.5	2.5	U		ug/l	SW846 6010
Barium	7440-39-3	38.5	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.50	U		ug/l	SW846 6010
Chromium	7440-47-3	1.1	0.80	B		ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U		ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270B
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270B
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270B
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270B
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270B
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270B
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270B
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270B
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270B
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270B
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270B
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270B
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270B
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270B
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270B
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270B
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270B
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270B
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270B
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270B
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270B
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270B
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270B
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270B
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270B

Location: SW114
Sample ID: 28SW114 **Depth:** NA
COE Sample ID: FH028-SW114/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270B
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270B
Benzoic Acid	65-85-0	1	50	J	U	ug/l	SW846 8270B
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U	U	ug/l	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270B
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270B
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270B
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270B
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270B
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270B
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270B
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270B
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270B
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270B
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270B
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270B
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270B
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270B
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270B
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270B
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270B
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270B
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270B
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260

Location: SW114
Sample ID: 28SW114 **Depth:** NA
COE Sample ID: FH028-SW114/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: SW115
Sample ID: 28SW115 **Depth:** NA
COE Sample ID: FH028-SW115/12-16-96
Date Collected: 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.2	2.5	B		ug/l	SW846 6010
Barium	7440-39-3	40.3	0.30			ug/l	SW846 6010
Cadmium	7440-43-9	3.7	0.50	B		ug/l	SW846 6010
Chromium	7440-47-3	2.4	0.80	B		ug/l	SW846 6010
Lead	7439-92-1	3.3	1.7			ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U		ug/l	SW846 7470
Selenium	7782-49-2	2.8	2.8	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270

Location: SW115
Sample ID: 28SW115 **Depth:** NA
COE Sample ID: FH028-SW115/12-16-96
Date Collected: 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	3	10	J	J	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	39	50	J	J	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J	U	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	1	10	J	J	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270

Location: SW115
Sample ID: 28SW115 **Depth:** NA
COE Sample ID: FH028-SW115/12-16-96
Date Collected: 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	72	5			ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	16	5			ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	4	5	J		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	2	5	J		ug/l	SW846 8240
m,p-Xylene	13-302-07	24	5			ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	2	5	J		ug/l	SW846 8240
n-propylbenzene	103-65-1	4	5	J		ug/l	SW846 8240
Naphthalene	91-20-3	24	5			ug/l	SW846 8240
o-Xylene	95-47-6	11	5			ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	3	5	J		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: SW116
Sample ID: 28SD116 **Depth:** NA
COE Sample ID: FH028-SD116/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4	0.36			mg/kg	SW846 6010
Barium	7440-39-3	65.2	0.069			mg/kg	SW846 6010
Cadmium	7440-43-9	1.4	0.057			mg/kg	SW846 6010
Chromium	7440-47-3	10.3	0.08			mg/kg	SW846 6010
Lead	7439-92-1	24.1	0.21			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.038	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.8	1.2	B	J	mg/kg	SW846 6010
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	430	430	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	430	430	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	430	430	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	430	430	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	430	430	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	430	430	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2100	2100	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	430	430	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	430	430	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	430	430	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2100	2100	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	430	430	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	430	430	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	430	430	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	430	430	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	430	430	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	430	430	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2100	2100	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	430	430	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	850	850	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2100	2100	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2100	2100	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	430	430	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	430	430	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	430	430	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	430	430	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	430	430	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2100	2100	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2100	2100	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	430	430	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	430	430	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	430	430	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	63	430	J	J	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	72	430	J	J	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	84	430	J	J	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	58	430	J	J	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	90	430	J	J	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2100	2100	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	430	430	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	430	430	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	430	430	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	430	430	B	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	430	430	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	85	430	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	430	430	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	430	430	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	430	430	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	430	430	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	430	430	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	430	430	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	140	430	J	J	ug/kg	SW846 8270

Location: SW116
Sample ID: 28SD116 **Depth:** NA
COE Sample ID: FH028-SD116/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Fluorene	86-73-7	430	430	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	430	430	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	430	430	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	430	430	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	430	430	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	430	430	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	430	430	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	430	430	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	430	430	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	430	430	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	430	430	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2100	2100	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	80	430	J	J	ug/kg	SW846 8270
Phenol	108-95-2	430	430	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	170	430	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	430	430	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	11	6			ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	74	6	B	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260

Location: SW116
Sample ID: 28SD116 **Depth:** NA
COE Sample ID: FH028-SD116/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	40	6	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	24	6	B	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	6	J	J	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	2	6	J	J	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SW117
Sample ID: 28SD117 **Depth:** NA
COE Sample ID: FH028-SD117/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	8.8	0.42			mg/kg	SW846 6010
Barium	7440-39-3	55.9	0.081			mg/kg	SW846 6010
Cadmium	7440-43-9	0.62	0.067	B		mg/kg	SW846 6010
Chromium	7440-47-3	9.1	0.094			mg/kg	SW846 6010
Lead	7439-92-1	5.8	0.24			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.044	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.30	0.30	U	U	mg/kg	SW846 6010
Silver	7440-22-4	0.23	0.23	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	420	420	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	420	420	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	420	420	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	420	420	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	420	420	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	130	420	J	J	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	420	420	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	840	840	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270

Location: SW117
Sample ID: 28SD117 **Depth:** NA
COE Sample ID: FH028-SD117/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Bromophenyl-phenyl Ether	101-55-3	420	420	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	420	420	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	420	420	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	420	420	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	49	420	J	J	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	47	420	J	J	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	66	420	J	J	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	420	420	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	58	420	J	J	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420	420	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	440	420	B	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	420	420	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	71	420	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	77	420	J	J	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	420	420	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	420	420	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	120	420	J	J	ug/kg	SW846 8270
Fluorene	86-73-7	420	420	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	420	420	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	420	420	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	420	420	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	420	420	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	420	420	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	420	420	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	420	420	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	420	420	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	420	420	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	420	420	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	51	420	J	J	ug/kg	SW846 8270
Phenol	108-95-2	420	420	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	120	420	J	J	ug/kg	SW846 8270
Pyridine	110-86-1	420	420	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260

Location: SW117
Sample ID: 28SD117 **Depth:** NA
COE Sample ID: FH028-SD117/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	7	7	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	53	7	B	U	ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	7	JB	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	7	7	B	U	ug/kg	SW846 8260
o-Xylene	95-47-6	7	7	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	7	7	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: SW118
Sample ID: 28SD118 **Depth:** NA
COE Sample ID: FH028-SD118/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	6	0.52			mg/kg	SW846 6010
Barium	7440-39-3	110	0.1			mg/kg	SW846 6010
Cadmium	7440-43-9	2.2	0.083			mg/kg	SW846 6010
Chromium	7440-47-3	13.9	0.12			mg/kg	SW846 6010

Location: SW118
Sample ID: 28SD118 **Depth:** NA
COE Sample ID: FH028-SD118/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Lead	7439-92-1	19.3	0.3			mg/kg	SW846 6010
Mercury	7439-97-6	0.05	0.054	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.37	0.37	WU	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.28	0.28	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	550	550	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	550	550	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	550	550	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	550	550	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	550	550	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	550	550	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2600	2600	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	550	550	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	550	550	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	550	550	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2600	2600	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	550	550	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	550	550	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	550	550	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	550	550	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	550	550	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	550	550	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2600	2600	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	550	550	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	1100	1100	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2600	2600	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2600	2600	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	550	550	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	550	550	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	550	550	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	550	550	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	1300	550			ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2600	2600	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2600	2600	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	550	550	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	550	550	U		ug/kg	SW846 8270
Anthracene	120-12-7	550	550	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	60	550	J		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	550	550	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	550	550	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	550	550	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	550	550	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	2600	2600	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	550	550	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	550	550	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	550	550	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	1400	550	B		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	550	550	U		ug/kg	SW846 8270
Chrysene	218-01-9	80	550	J		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	550	550	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	310	550	J		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	550	550	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	550	550	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	550	550	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	550	550	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	550	550	U		ug/kg	SW846 8270
Fluorene	86-73-7	550	550	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	550	550	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	550	550	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	550	550	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	550	550	U		ug/kg	SW846 8270

Location: SW118
Sample ID: 28SD118 **Depth:** NA
COE Sample ID: FH028-SD118/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Indeno(1,2,3-cd)pyrene	193-39-5	550	550	U		ug/kg	SW846 8270
Isophorone	78-59-1	550	550	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	550	550	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	550	550	U		ug/kg	SW846 8270
Naphthalene	91-20-3	550	550	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	550	550	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2600	2600	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	550	550	U		ug/kg	SW846 8270
Phenol	108-95-2	550	550	U		ug/kg	SW846 8270
Pyrene	129-00-0	160	550	J		ug/kg	SW846 8270
Pyridine	110-86-1	550	550	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	8	8	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	8	8	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	8	8	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	8	8	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	8	8	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	8	8	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	8	8	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	8	8	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	8	8	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	8	8	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	8	8	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	8	8	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	8	8	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	8	8	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	8	8	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	8	8	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	8	8	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	8	8	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	8	8	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	8	8	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	8	8	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	8	8	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	8	8	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	8	8	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	8	8	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	8	8	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	8	8	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	8	8	U	U	ug/kg	SW846 8260
Acetone	67-64-1	54	8	B	U	ug/kg	SW846 8260
Benzene	71-43-2	8	8	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	8	8	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	8	8	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	8	8	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	8	8	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	8	8	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	8	8	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	8	8	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	8	8	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	8	8	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	8	8	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	8	8	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	8	8	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	8	8	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	9	8			ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	8	8	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	8	8	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	8	8	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	4	8	JB	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	8	8	U	U	ug/kg	SW846 8260

Location: SW118
Sample ID: 28SD118 **Depth:** NA
COE Sample ID: FH028-SD118/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	8	8	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	10	8	B	U	ug/kg	SW846 8260
o-Xylene	95-47-6	8	8	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	30	8			ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	8	8	U	U	ug/kg	SW846 8260
Styrene	100-42-5	8	8	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	8	8	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	8	8	U	U	ug/kg	SW846 8260
Toluene	108-88-3	1500	42	D	D	ug/kg	SW846 8260
Trichloroethene	79-01-6	8	8	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	8	8	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	8	8	U	U	ug/kg	SW846 8260

Location: SW119
Sample ID: 28SD119 **Depth:** NA
COE Sample ID: FH028-SD119/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	5.3	0.83			mg/kg	SW846 6010
Barium	7440-39-3	109	0.16			mg/kg	SW846 6010
Cadmium	7440-43-9	10.4	0.13			mg/kg	SW846 6010
Chromium	7440-47-3	14.5	0.19			mg/kg	SW846 6010
Lead	7439-92-1	25.2	0.48			mg/kg	SW846 6010
Selenium	7782-49-2	3.5	2.9	WB	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.46	0.46	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	1800	1800	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	1800	1800	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	1800	1800	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	1800	1800	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	1800	1800	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	1800	1800	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	8800	8800	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	1800	1800	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	1800	1800	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	8800	8800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	1800	1800	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	1800	1800	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	1800	1800	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	1800	1800	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	330	1800	J		ug/kg	SW846 8270
2-Methylphenol	95-48-7	1800	1800	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	8800	8800	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	1800	1800	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	3600	3600	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	8800	8800	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	8800	8800	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	1800	1800	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	1800	1800	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	1800	1800	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	1800	1800	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	1100	1800	J		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	8800	8800	U		ug/kg	SW846 8270

Location: SW119
Sample ID: 28SD119 **Depth:** NA
COE Sample ID: FH028-SD119/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Nitrophenol	100-02-7	8800	8800	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	1800	1800	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	1800	1800	U		ug/kg	SW846 8270
Anthracene	120-12-7	1800	1800	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	1800	1800	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	1800	1800	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	1800	1800	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	1800	1800	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	1800	1800	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	8800	8800	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	1800	1800	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	1800	1800	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	1800	1800	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	13000	1800	B		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	1800	1800	U		ug/kg	SW846 8270
Chrysene	218-01-9	260	1800	J		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	1800	1800	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	7000	1800			ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	1800	1800	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	1800	1800	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	1800	1800	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	1800	1800	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	1800	1800	U		ug/kg	SW846 8270
Fluorene	86-73-7	1800	1800	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	1800	1800	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	1800	1800	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	1800	1800	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	1800	1800	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	1800	1800	U		ug/kg	SW846 8270
Isophorone	78-59-1	1800	1800	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	1800	1800	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	1800	1800	U		ug/kg	SW846 8270
Naphthalene	91-20-3	1800	1800	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	1800	1800	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	8800	8800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	240	1800	J		ug/kg	SW846 8270
Phenol	108-95-2	1800	1800	U		ug/kg	SW846 8270
Pyrene	129-00-0	290	1800	J		ug/kg	SW846 8270
Pyridine	110-86-1	1800	1800	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	14	14	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	14	14	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	14	14	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	14	14	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	14	14	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	14	14	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	14	14	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	120	14			ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	14	14	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	67	14			ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	140	14			ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	14	14	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	14	14	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	14	14	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	23	14			ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	14	14	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	14	14	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	14	14	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	67	14			ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	14	J	J	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	14	14	U	U	ug/kg	SW846 8260

Location: SW119
Sample ID: 28SD119 **Depth:** NA
COE Sample ID: FH028-SD119/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,4-Dichlorobenzene	106-46-7	17	14			ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	14	14	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	150	14			ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	14	14	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	14	14	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	14	14	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	16	14			ug/kg	SW846 8260
Acetone	67-64-1	500	14	B	U	ug/kg	SW846 8260
Benzene	71-43-2	14	14	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	14	14	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	14	14	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	14	14	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	14	14	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	14	14	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	14	14	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	14	14	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	14	14	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	14	14	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	14	14	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	14	14	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	14	14	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	14	14	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	9	14	J	J	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	14	14	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	14	14	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	21	14			ug/kg	SW846 8260
Methylene Chloride	75-09-2	16	14	B	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	66	14			ug/kg	SW846 8260
n-propylbenzene	103-65-1	11	14	J	J	ug/kg	SW846 8260
Naphthalene	91-20-3	440	14	B	U	ug/kg	SW846 8260
o-Xylene	95-47-6	11	14	J	J	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	46	14			ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	24	14			ug/kg	SW846 8260
Styrene	100-42-5	14	14	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	14	14	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	14	14	U	U	ug/kg	SW846 8260
Toluene	108-88-3	19	14			ug/kg	SW846 8260
Trichloroethene	79-01-6	14	14	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	14	14	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	14	14	U	U	ug/kg	SW846 8260

Location: SW120
Sample ID: 28SD120 **Depth:** NA
COE Sample ID: FH028-SD116/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	7.4	0.46			mg/kg	SW846 6010
Barium	7440-39-3	140	0.088			mg/kg	SW846 6010
Cadmium	7440-43-9	1.3	0.074			mg/kg	SW846 6010
Chromium	7440-47-3	21.3	0.1			mg/kg	SW846 6010
Lead	7439-92-1	12.7	0.26			mg/kg	SW846 6010
Mercury	7439-97-6	0.05	0.048	U		mg/kg	SW846 7471
Selenium	7782-49-2	2.2	1.6	B		mg/kg	SW846 6010
Silver	7440-22-4	0.25	0.25	U		mg/kg	SW846 6010

Location: SW120
Sample ID: 28SD120 **Depth:** NA
COE Sample ID: FH028-SD116/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	490	490	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	490	490	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	490	490	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	490	490	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	490	490	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	490	490	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2400	2400	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	490	490	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	490	490	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	490	490	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2400	2400	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	490	490	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	490	490	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	490	490	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	490	490	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	490	490	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	490	490	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2400	2400	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	490	490	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	980	980	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2400	2400	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2400	2400	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	490	490	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	490	490	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	490	490	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	490	490	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	490	490	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2400	2400	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2400	2400	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	490	490	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	490	490	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	490	490	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	490	490	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	490	490	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	490	490	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	490	490	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	490	490	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2400	2400	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	490	490	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	490	490	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	490	490	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	410	490	JB	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	490	490	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	490	490	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	490	490	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	100	490	J	J	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	490	490	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	490	490	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	490	490	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	490	490	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	490	490	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	490	490	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	490	490	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	490	490	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	490	490	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	490	490	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	490	490	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	490	490	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	490	490	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	490	490	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	490	490	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	490	490	U	U	ug/kg	SW846 8270

Location: SW120
Sample ID: 28SD120 **Depth:** NA
COE Sample ID: FH028-SD116/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Pentachlorophenol	87-86-5	2400	2400	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	490	490	U	U	ug/kg	SW846 8270
Phenol	108-95-2	490	490	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	490	490	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	490	490	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	7	7	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	7	7	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	7	7	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	7	7	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	7	7	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	7	7	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	7	7	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	7	7	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	7	7	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	7	7	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	7	7	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	7	7	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	7	7	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	7	7	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	7	7	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	7	7	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	7	7	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	7	7	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	7	7	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	7	7	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	7	7	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	7	7	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	7	7	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	7	7	U	U	ug/kg	SW846 8260
Acetone	67-64-1	34	7	B	U	ug/kg	SW846 8260
Benzene	71-43-2	7	7	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	7	7	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	7	7	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	7	7	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	7	7	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	7	7	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	7	7	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	7	7	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	7	7	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	7	7	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	7	7	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	7	7	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	7	7	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	7	7	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	7	7	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	7	7	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	7	7	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	7	7	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	7	JB	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	7	7	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	7	7	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	12	7	B		ug/kg	SW846 8260
o-Xylene	95-47-6	7	7	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	7	7	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	7	7	U	U	ug/kg	SW846 8260
Styrene	100-42-5	7	7	U	U	ug/kg	SW846 8260

Location: SW120
Sample ID: 28SD120 **Depth:** NA
COE Sample ID: FH028-SD116/09-10-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
tert-Butylbenzene	98-06-6	7	7	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	7	7	U	U	ug/kg	SW846 8260
Toluene	108-88-3	7	7	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	7	7	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	7	7	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	7	7	U	U	ug/kg	SW846 8260

Location: NA
Sample ID: ER012 **Depth:** NA
COE Sample ID: FH028-ER012/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.5	2.5	U		ug/l	SW846 6010
Barium	7440-39-3	0.3	0.30	U		ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.50	U		ug/l	SW846 6010
Chromium	7440-47-3	2.9	0.80	B		ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.10	U		ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270B
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270B
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270B
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270B
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270B
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270B
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270B
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270B
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270B
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270B
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270B
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270B
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270B
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270B
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270B
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270B
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270B
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270B
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270B
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270B
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270B
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270B
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270B
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270B
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270B
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270B
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270B
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270B
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270B
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270B
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270B
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270B
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270B

Location: NA
Sample ID: ER012 **Depth:** NA
COE Sample ID: FH028-ER012/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270B
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270B
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270B
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270B
Benzoic Acid	65-85-0	3	50	J		ug/l	SW846 8270B
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270B
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270B
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270B
Bis(2-ethylhexyl)phthalate	117-81-7	16	10	B		ug/l	SW846 8270B
Butyl Benzyl Phthalate	85-68-7	10	10			ug/l	SW846 8270B
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270B
Di-n-butyl Phthalate	84-74-2	1	10	J		ug/l	SW846 8270B
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270B
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270B
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270B
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270B
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270B
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270B
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270B
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270B
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270B
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270B
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270B
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270B
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270B
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270B
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270B
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270B
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270B
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270B
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270B
Phenol	108-95-2	10	10	U		ug/l	SW846 8270B
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270B
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270B
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: ER012 **Depth:** NA
COE Sample ID: FH028-ER012/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	11	5			ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5			ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB003 **Depth:** NA
COE Sample ID: FH028-TB003/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB003 **Depth:** NA
COE Sample ID: FH028-TB003/11-16-96
Date Collected: 11/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: ER077 **Depth:** NA
COE Sample ID: FH028-ER077/09-09-97
Date Collected: 9/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.5	2.5	U		ug/l	SW846 6010
Barium	7440-39-3	0.34	0.3	B		ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U		ug/l	SW846 6010
Chromium	7440-47-3	0.83	0.8	B		ug/l	SW846 6010

Location: NA
Sample ID: ER077 **Depth:** NA
COE Sample ID: FH028-ER077/09-09-97
Date Collected: 9/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Lead	7439-92-1	1.7	1.7	U		ug/l	SW846 6010
Mercury	7439-97-6	0.35	0.1			ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	U		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	21	50	J		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	2	10	J		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	2	10	J		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270

Location: NA
Sample ID: ER077 **Depth:** NA
COE Sample ID: FH028-ER077/09-09-97
Date Collected: 9/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	10	10	U		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	6	5	B		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: ER077 **Depth:** NA
COE Sample ID: FH028-ER077/09-09-97
Date Collected: 9/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB112 **Depth:** NA
COE Sample ID: FH028-TB110/09-09-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	4	5	J		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB112 **Depth:** NA
COE Sample ID: FH028-TB110/09-09-97
Date Collected: 9/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	B		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: ER087 **Depth:** NA
COE Sample ID: FH028-ER087/03-18-98
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.1	2.1	U	U	ug/l	SW846 6010
Barium	7440-39-3	0.3	0.3	N*U	UJ	ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	U	U	ug/l	SW846 6010
Chromium	7440-47-3	1	1.0	U	U	ug/l	SW846 6010
Lead	7439-92-1	0.9	0.9	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U	U	ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	WNU	UJ	ug/l	SW846 7740
Silver	7440-22-4	1	1.0	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	52	52	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	52	52	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270

Location: NA
Sample ID: ER087 **Depth:** NA
COE Sample ID: FH028-ER087/03-18-98
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2-Nitroaniline	88-74-4	52	52	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	21	21	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	52	52	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	52	52	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270
4-Nitroaniline	100-01-6	52	52	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	52	52	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	52	52	U		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	1	10	J		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	190	10	EB		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	2	10	J		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	1	10	J		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	2	10	J		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	52	52	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	7	10	J		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	0	0.00	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: ER087 **Depth:** NA
COE Sample ID: FH028-ER087/03-18-98
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	46	5			ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB120 **Depth:** NA
COE Sample ID: FH028-TB110/03-18-98
Date Collected: 3/18/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	2	5	J		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

APPENDIX B

Fort Hood RFI Background Soils Data

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB101 Background Soil Boring SB101

Sample ID: FH000-SB10112-10-96/2.0-2.5 (BKSB101) Sample Depth: 2.0-2.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3	0.41	MG/KG		
Barium	21.3	0.10	MG/KG	*	J
Cadmium	0.12	0.05	MG/KG	B	
Chromium	5.1	0.10	MG/KG	E*	J
Lead	6	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.37	0.37	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB10212-10-96/4.0-4.7 (BKSB102) Sample Depth: 4.0-4.7 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	2	0.39	MG/KG		
Barium	8	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	B	
Chromium	10.3	0.10	MG/KG	E*	J
Lead	5	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB10312-10-96/10.5-11.0 (BKSB103) Sample Depth: 10.5-11.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	9.1	0.42	MG/KG		
Barium	14.7	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	10.1	0.10	MG/KG	E*	J
Lead	9.5	0.18	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.38	0.38	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB102 Background Soil Boring SB102

Sample ID: FH000-SB12112-12-96/0.0-1.5 (BKSB121) Sample Depth: 0.0-1.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.1	0.38	MG/KG		
Barium	24	0.09	MG/KG		
Cadmium	0.18	0.05	MG/KG	B	
Chromium	6.3	0.09	MG/KG		
Lead	10.2	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB12212-12-96/14.0-14.5 (BKSB122) Sample Depth: 14.0-14.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.2	0.36	MG/KG		
Barium	6.1	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	4.9	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12312-12-96/19.0-19.5 (BKSB123) Sample Depth: 19.0-19.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.8	0.36	MG/KG		
Barium	5.5	0.09	MG/KG		
Cadmium	0.08	0.04	MG/KG	B	
Chromium	4.3	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB20212-12-96/0.0-1.5 (BKSB202) Sample Depth: 0.0-1.5 FT

Matrix: Soil Field Sample Type: Field Duplicate Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.2	0.37	MG/KG		
Barium	18.2	0.09	MG/KG		
Cadmium	0.12	0.04	MG/KG	B	
Chromium	5.9	0.09	MG/KG		
Lead	4.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB103 Background Soil Boring SB103

Sample ID: FH000-SB10412-10-96/0.0-1.5 (BKSB104) Sample Depth: 0.0-1.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	6.2	0.35	MG/KG		
Barium	28.2	0.08	MG/KG	*	J
Cadmium	0.15	0.04	MG/KG	B	
Chromium	3.1	0.08	MG/KG	E*	J
Lead	5.3	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB10512-10-96/4.0-6.0 (BKSB105) Sample Depth: 4.0-6.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.3	0.36	MG/KG		
Barium	23.4	0.09	MG/KG	*	J
Cadmium	0.11	0.04	MG/KG	B	
Chromium	4	0.09	MG/KG	E*	J
Lead	3.9	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB10612-10-96/9.0-9.4 (BKSB106) Sample Depth: 9.0-9.4 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.4	0.37	MG/KG		
Barium	43.7	0.09	MG/KG	*	J
Cadmium	0.16	0.04	MG/KG	B	
Chromium	7.6	0.09	MG/KG	E*	J
Lead	5	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB10712-10-96/14.0-15.0 (BKSB107) Sample Depth: 14.0-15.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	53	0.39	MG/KG		
Barium	1350	0.09	MG/KG	*	J
Cadmium	0.35	0.05	MG/KG	B	
Chromium	5.1	0.09	MG/KG	E*	J
Lead	6.1	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB104 Background Soil Boring SB104

Sample ID: FH000-SB10812-11-96/0.0-1.0 (BKSB108) Sample Depth: 0.0-1.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	6	0.40	MG/KG		
Barium	72.4	0.10	MG/KG	*	J
Cadmium	0.2	0.05	MG/KG	B	
Chromium	12.9	0.10	MG/KG	E*	J
Lead	9.8	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.37	0.37	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB10912-11-96/4.0-5.0 (BKSB109) Sample Depth: 4.0-5.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.5	0.38	MG/KG		
Barium	155	0.09	MG/KG	*	J
Cadmium	0.07	0.05	MG/KG	B	
Chromium	6.5	0.09	MG/KG	E*	J
Lead	3.2	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB11012-11-96/11.0-11.5 (BKSB110) Sample Depth: 11.0-11.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.8	0.40	MG/KG		
Barium	24.1	0.10	MG/KG	*	J
Cadmium	0.06	0.05	MG/KG	B	
Chromium	16.6	0.10	MG/KG	E*	J
Lead	7.8	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB11112-11-96/18.0-18.5 (BKSB111) Sample Depth: 18.0-18.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	5.2	0.38	MG/KG		
Barium	7.2	0.09	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	B	
Chromium	6.2	0.09	MG/KG	E*	J
Lead	5.3	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB105 Background Soil Boring SB105

Sample ID: FH000-SB11212-11-96/1.0-1.5 (BKSB112) Sample Depth: 1.0-1.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	1.6	0.35	MG/KG		
Barium	6.6	0.09	MG/KG	*	J
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	4	0.09	MG/KG	E*	J
Lead	1.5	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB11312-11-96/4.0-5.0 (BKSB113) Sample Depth: 4.0-5.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	5.7	0.40	MG/KG		
Barium	20.5	0.10	MG/KG	*	J
Cadmium	0.07	0.05	MG/KG	B	
Chromium	8.9	0.10	MG/KG	E*	J
Lead	6	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB11412-11-96/11.0-12.0 (BKSB114) Sample Depth: 11.0-12.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	5.2	0.42	MG/KG		
Barium	25.2	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	20.3	0.10	MG/KG	E*	J
Lead	7.7	0.18	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.38	0.38	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB11512-11-96/15.0-15.5 (BKSB115) Sample Depth: 15.0-15.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	5.3	0.36	MG/KG		
Barium	10.6	0.09	MG/KG	*	J
Cadmium	0.06	0.04	MG/KG	B	
Chromium	7.3	0.09	MG/KG	E*	J
Lead	5.1	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB11612-11-96/22.0-22.5 (BKSB116) Sample Depth: 22.0-22.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	11.6	0.37	MG/KG		
Barium	4.9	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B	
Chromium	2.7	0.09	MG/KG	E*	J
Lead	5.6	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB106 Background Soil Boring SB106

Sample ID: FH000-SB11712-12-96/0.0-1.0 (BKSB117) Sample Depth: 0.0-1.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.4	0.37	MG/KG		
Barium	27.9	0.09	MG/KG	*	J
Cadmium	0.18	0.04	MG/KG	B	
Chromium	5.7	0.09	MG/KG	E*	J
Lead	8.3	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB11812-12-96/9.0-9.5 (BKSB118) Sample Depth: 9.0-9.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	2.6	0.37	MG/KG		
Barium	4.4	0.09	MG/KG	*	J
Cadmium	0.19	0.04	MG/KG	B	
Chromium	2.2	0.09	MG/KG	E*	J
Lead	3.7	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB11912-12-96/14.0-14.5 (BKSB119) Sample Depth: 14.0-14.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	0.66	0.37	MG/KG	B	
Barium	3	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	2.1	0.09	MG/KG		
Lead	1.3	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12012-12-96/19.0-20.0 (BKSB120) Sample Depth: 19.0-20.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	0.44	0.35	MG/KG	B	
Barium	2	0.08	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	0.93	0.08	MG/KG	B	
Lead	0.72	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20112-12-96/0.0-1.0 (BKSB201) Sample Depth: 0.0-1.0 FT

Matrix: Soil Field Sample Type: Field Duplicate Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.4	0.36	MG/KG		
Barium	17.9	0.09	MG/KG		
Cadmium	0.14	0.04	MG/KG	B	
Chromium	2.6	0.09	MG/KG		
Lead	5.9	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB107 Background Soil Boring SB107
Sample ID: FH000-SB12412-12-96/0.0-1.0 (BKSB124) Sample Depth: 0.0-1.0 FT
Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	6	0.37	MG/KG		
Barium	19.3	0.09	MG/KG		
Cadmium	0.11	0.04	MG/KG	B	
Chromium	7.2	0.09	MG/KG		
Lead	4.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12512-12-96/4.0-4.5 (BKSB125) Sample Depth: 4.0-4.5 FT
Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.2	0.35	MG/KG		
Barium	18.1	0.09	MG/KG		
Cadmium	0.11	0.04	MG/KG	B	
Chromium	5.1	0.09	MG/KG		
Lead	1.7	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.32	MG/KG	B	
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB12612-12-96/5.5-6.0 (BKSB126) Sample Depth: 5.5-6.0 FT
Matrix: Soil Field Sample Type: Grab Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	2.5	0.36	MG/KG		
Barium	5.4	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	5.5	0.09	MG/KG		
Lead	1.5	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.44	0.33	MG/KG	B	
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB20312-12-96/0.0-1.0 (BKSB203) Sample Depth: 0.0-1.0 FT
Matrix: Soil Field Sample Type: Field Duplicate Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	5.9	0.37	MG/KG		
Barium	39	0.09	MG/KG		
Cadmium	0.17	0.05	MG/KG	B	
Chromium	9.3	0.09	MG/KG		
Lead	6.6	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB108 Background Soil Boring SB108

Sample ID: FH000-SB135/01-14-97/0.0-1.0 (BKSB135) Sample Depth: 0.0-1.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	2.7	0.36	MG/KG		
Barium	15.4	0.09	MG/KG	*	J
Cadmium	0.17	0.04	MG/KG	B*	J
Chromium	6.1	0.09	MG/KG		
Lead	2.5	0.15	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.5	1.5	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB136/01-14-97/5.0-5.5 (BKSB136) Sample Depth: 5.0-5.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.3	0.38	MG/KG		
Barium	14.8	0.09	MG/KG	*	J
Cadmium	0.2	0.05	MG/KG	B*	J
Chromium	8.3	0.09	MG/KG		
Lead	3	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB137/01-14-97/9.0-9.5 (BKSB137) Sample Depth: 9.0-9.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	8.2	0.36	MG/KG		
Barium	7.8	0.09	MG/KG	*	J
Cadmium	0.18	0.04	MG/KG	B*	J
Chromium	8.1	0.09	MG/KG		
Lead	2.3	0.15	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB138/01-14-97/14.0-14.5 (BKSB138) Sample Depth: 14.0-14.5 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	9.2	0.38	MG/KG		
Barium	12.2	0.09	MG/KG	*	J
Cadmium	0.21	0.05	MG/KG	B*	J
Chromium	11.1	0.09	MG/KG		
Lead	4.1	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22	0.22	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB139/01-14-97/16.5-17.0 (BKSB139) Sample Depth: 16.5-17.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	7.6	0.37	MG/KG		
Barium	7.3	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	8.4	0.09	MG/KG		
Lead	3.6	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB109 Background Soil Boring SB109

Sample ID: FH000-SB140/01-15-97/0.0-1.0 (BKSB140) Sample Depth: 0.0-1.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.8	0.41	MG/KG		
Barium	108	0.10	MG/KG	*	J
Cadmium	0.79	0.05	MG/KG	*	J
Chromium	16.1	0.10	MG/KG		
Lead	33.2	0.17	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	UWN	R
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB141/01-15-97/4.0-5.0 (BKSB141) Sample Depth: 4.0-5.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	5.6	0.43	MG/KG		
Barium	127	0.10	MG/KG	*	J
Cadmium	0.45	0.05	MG/KG	B*	J
Chromium	23.6	0.10	MG/KG		
Lead	12.1	0.18	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.8	1.8	MG/KG	UN	R
Silver	0.25	0.25	MG/KG	U	U

Sample ID: FH000-SB142/01-15-97/9.0-10.0 (BKSB142) Sample Depth: 9.0-10.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.8	0.44	MG/KG		
Barium	63	0.11	MG/KG	*	J
Cadmium	0.29	0.05	MG/KG	B*	J
Chromium	8.4	0.11	MG/KG		
Lead	5	0.19	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.9	1.9	MG/KG	UWN	R
Silver	0.25	0.25	MG/KG	U	U

Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Sample Depth: 14.5-15.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.8	0.41	MG/KG		
Barium	39.3	0.10	MG/KG	*	J
Cadmium	0.27	0.05	MG/KG	B*	J
Chromium	12.2	0.10	MG/KG		
Lead	6.6	0.17	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	UWN	R
Silver	0.24	0.24	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB144/01-15-97/19.0-19.3 (BKSB144) Sample Depth: 19.0-19.3 FT

Matrix: Soil Field Sample Type: Grab Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.7	0.37	MG/KG		
Barium	36.1	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	6.5	0.09	MG/KG		
Lead	4	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB110 Background Soil Boring SB110

Sample ID: FH000-SB12712-13-96/0.0-1.0 (BKSB127) Sample Depth: 0.0-1.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	1.9	0.36	MG/KG		
Barium	18.8	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	3.7	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12812-13-96/4.0-6.0 (BKSB128) Sample Depth: 4.0-6.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.6	0.38	MG/KG		
Barium	36.3	0.09	MG/KG		
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	8.5	0.09	MG/KG		
Lead	7.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG		
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB12912-13-96/10.0-11.0 (BKSB129) Sample Depth: 10.0-11.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	2.6	0.36	MG/KG		
Barium	26.3	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	4.6	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Sample Depth: 15.0-16.0 FT

Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	1	0.35	MG/KG	B	
Barium	8.1	0.08	MG/KG		
Cadmium	0.07	0.04	MG/KG	B	
Chromium	1.8	0.08	MG/KG		
Lead	3.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB13112-13-96/20.0-21.0 (BKSB131) Sample Depth: 20.0-21.0 FT
Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	5.3	0.38	MG/KG		
Barium	65.9	0.09	MG/KG		
Cadmium	0.15	0.05	MG/KG	B	
Chromium	7.7	0.09	MG/KG		
Lead	10.1	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB13212-13-96/25.0-26.0 (BKSB132) Sample Depth: 25.0-26.0 FT
Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	4.2	0.37	MG/KG		
Barium	41.7	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	5.9	0.09	MG/KG		
Lead	7.8	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB13312-13-96/30.0-31.0 (BKSB133) Sample Depth: 30.0-31.0 FT
Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.2	0.39	MG/KG		
Barium	68.6	0.09	MG/KG		
Cadmium	0.11	0.05	MG/KG	B	
Chromium	4.9	0.09	MG/KG		
Lead	6.3	0.17	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB13412-13-96/34.0-34.5 (BKSB134) Sample Depth: 34.0-34.5 FT
Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	2.9	0.36	MG/KG		
Barium	20.1	0.09	MG/KG		
Cadmium	0.08	0.04	MG/KG	B	
Chromium	1.2	0.09	MG/KG		
Lead	2.3	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20412-13-96/4.0-6.0 (BKSB204) Sample Depth: 4.0-6.0 FT

Matrix: Soil Field Sample Type: Field Duplicate Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers Lab	Qualifiers Data
Arsenic	3.2	0.38	MG/KG		
Barium	31.9	0.09	MG/KG		
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	6.5	0.09	MG/KG		
Lead	7.1	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

APPENDIX C

Fort Hood RFI Background Soil Boring Logs

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB101

(Page 1 of 1)

FHBKG	: Background
Start Date	: 12/10/96
End Date	: 12/10/96
Northing Coord.	: 3446458.08 m
Easting Coord.	: 61375.50 m UTM 14 North
Total Depth of Boring	: 18.5 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 15.0 feet
Depth Drilled Into Rock	: 3.5 feet
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. 887.80ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0					Topsoil. 0.0-0.5' bgs.; weathered tan limestone.	No sample recovery.
1	887	CL			CLAY; weathered limestone fragments; damp; soft; moderately plastic; 10YR5/4 yellowish brown.	
2	886					Sample BKSB101 collected 2.0-2.5' bgs.
3	885				Same as above; dry.	
4	884				Same as above; dry; more weathered limestone.	Description from soil cuttings.
5	883	CH			CLAY, fat; fewer fragments; damp; firm; highly plastic; mottled 10YR6/6 brownish yellow and 2.5Y7/1 light gray.	Sample BKSB102 collected 4.0-4.7' bgs.
6	882				Same CLAY as above; more silty; interbedded with weathered limestone; dry.	Description from soil cuttings.
7	881					
8	880					
9	879					
10	878				Same as above; dry.	
11	877	CL			Silty CLAY; dry; firm; non-plastic; 10YR6/6 brownish yellow.	Sample BKSB103 collected 10.5-11.0' bgs.
12	876				Same as above; interbedded with tan weathered limestone; dry.	
13	875					
14	874					
15	873	LS			LIMESTONE, weathered; dry; blue-gray.	Description from soil cuttings.
16	872					
17	871					
18	870					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
19	869				Bottom of Boring @ 18.5' bgs.	
20	868					

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB101.BOR

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB102

FHBKG	: Background
Start Date	: 12/12/96
End Date	: 12/12/96
Northing Coord.	: 3446503.40 m
Easting Coord.	: 613980.64 m UTM 14 North
Total Depth of Boring	: 19.5 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 16.0 feet
Depth Drilled Into Rock	: 3.5 feet
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. 912.28ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	912				Topsoil. 0.0-0.4' bgs.	Sample BKSB121, duplicate BKSB202, and split sample BKSB302 collected 0.0-0.5' bgs.
1	911	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 10YR5/3 brown and 10YR8/2 very pale brown.	
2	910				Same as above; dry.	
3	909					Description from soil cuttings.
4	908	CL			LIMESTONE, weathered, tan; and Silty Clay interbeds; dry.	
5	907					
6	906	CL			Zones of limestone and highly indurated silty clay (weathered limestone?); shell fragments; roots; dry; very hard; 2.5Y8/2 pale yellow.	
7	905					
8	904					
9	903				Same as above; dry.	
10	902					
11	901				Same as above; dry.	
12	900					
13	899					Description from soil cuttings.
14	898					Sample BKSB122 collected 14.0-14.5' bgs.
15	897				Same as above; dry.	
16	896	LS			LIMESTONE, weathered; dry; blue-gray.	
17	895					
18	894				Same as above; dry.	
19	893				Same as above; dry.	Sample BKSB123 collected 19.0-19.5' bgs.
20					Bottom of Boring @ 19.5' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB102.BOR

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB103

(Page 1 of 1)

FHBKG	: Background
Start Date	: 12/10/96
End Date	: 12/10/96
Northing Coord.	: 3447405.80 m
Easting Coord.	: 606690.49 m UTM 14 North
Total Depth of Boring	: 17.0 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 15.0 feet
Depth Drilled Into Rock	: 2.0 feet
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. 795.26ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	795				Topsoil. 0.0-0.2' bgs.; weathered tan limestone.	Sample BKSB104 collected 0.0-0.5' bgs.
1	794	CL			Interbedded Silty and pebbly CLAY; 40% coarse sand to pebble sized angular to subrounded fragments; dry; moderately plastic; thin layers of 10YR8/4 very pale brown and 10YR3/2 very dark grayish brown.	
2	793				Same as above; no pebbles; dry.	
3	792					Description from soil cuttings.
4	791	CL			Same as above; weathered, tan limestone fragments; dry.	Sample BKSB105 collected 4.0-4.5' bgs.
5	790					
6	789	CL			Same as above; interbeds of limestone; dry.	
7	788				Same as above; dry.	
8	787					
9	786				Same as above; dry.	Sample BKSB106 collected 9.0-9.5' bgs.
10	785					
11	784				Same as above; except more medium to coarse sand; dry; soft; non-plastic.	
12	783					
13	782				Same as above; dry.	Description from soil cuttings.
14	781	CL			Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; mottled 10YR8/2 very pale brown and 10YR6/4 light yellowish brown.	Sample BKSB107 collected 14.0-15.0' bgs.
15	780	LS			LIMESTONE, weathered; dry; blue-gray.	
16	779					
17	778				Bottom of Boring @ 17.0' bgs.	
18	777					
19	776					
20						Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB103.BOR

RCRA Facilities Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB104

(Page 1 of 1)

FHBKG	: Background
Start Date	: 12/11/96
End Date	: 12/11/96
Northing Coord.	: 3447780.16 m
Easting Coord.	: 613523.75 m UTM 14 North
Total Depth of Boring	: 24.0 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 24.0 feet
Depth Drilled Into Rock	: NA
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. 896.29	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	896				Topsoil. 0.0-1.0' bgs.; weathered tan limestone.	Sample BKSB108 collected 0.0-1.0' bgs.
1	895				Silty CLAY; trace organics; weathered limestone fragments; damp; soft; low plasticity; 2.5Y7/6 yellow.	
2	894					
3	893				Same as above.	Description from soil cuttings.
4	892				Same as above; no organics; dry; 10YR7/8 yellow mottle.	
5	891	CL				Sample BKSB109 collected 4.0-5.0' bgs.
6	890				Same as above; slightly more silty; dry; hard; brittle.	
7	889					Description from soil cuttings.
8	888					
9	887				LIMESTONE, weathered; tan.	Description from soil cuttings. Hard drilling.
10	886	LS			weathered limestone as above.	
11	885				Silty CLAY as above; dry.	Sample BKSB110 collected 11.0-11.5' bgs.
12	884	CL			Same as above; dry.	Geotechnical sample collected 12.0-13.0' bgs.
13	883				Silty CLAY and weathered LIMESTONE interbeds.	
14	882					
15	881	CL				Description from soil cuttings.
16	880					
17	879					
18	878	CL			Silty CLAY as above; dry.	Sample BKSB111 collected 18.0-18.5' bgs.
19	877				Silty CLAY and weathered LIMESTONE interbeds.	
20	876					
21	875	CL				Description from soil cuttings.
22	874					
23	873				Same as above; dry. Blue-gray weathered limestone fragments; dry.	
24	872	LS			Bottom of Boring at 24.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
25						

10-20-1999 t:\gov\coe\fthood\boring\logs\fhbkg\SB104.BOR

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB105

(Page 1 of 1)

FHBKG	: Background
Start Date	: 12/11/96
End Date	: 12/11/96
Northing Coord.	: Not
Easting Coord.	: Surveyed
Total Depth of Boring	: 24.0 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 24.0 feet
Depth Drilled Into Rock	: NA
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	DESCRIPTION	REMARKS
0	0	GP	GRAVEL (graded area).	
1	-1	CL	Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 2.5Y6/4 light yellowish brown.	Sample BKSB112 collected 1.0-1.5' bgs.
2	-2			
3	-3		Same as above; dry.	Description from soil cuttings.
4	-4	CH	CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowish brown and 10YR6/6 brownish yellow.	Sample BKSB113 collected 4.0-5.0' bgs.
5	-5	CL	Silty CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown.	
6	-6			
7	-7			
8	-8			Description from soil cuttings.
9	-9			
10	-10		Same as above; dry.	
11	-11			
12	-12		Same as above; dry; moderately plastic.	Sample BKSB114 collected 11.0-12.0' bgs.
13	-13		Same as above; dry.	Description from soil cuttings.
14	-14			
15	-15	CL	Same as above; more silt; dry; hard; brittle; non-plastic.	Sample BKSB115 collected 15.0-15.5' bgs.
16	-16		Same as above with weathered limestone interbeds.	
17	-17			
18	-18			Description from soil cuttings.
19	-19			
20	-20			
21	-21			
22	-22		Same as above; dry.	Sample BKSB116 collected 22.0-22.5' bgs.
23	-23			
24	-24		Blue-gray weathered limestone; dry; hard drilling to 24.0'.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
25		LS	Bottom of Boring at 24.0' bgs.	

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB105.BOR

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB106

(Page 1 of 1)

FHBKG	: Background
Start Date	: 12/12/96
End Date	: 12/12/96
Northing Coord.	: Not
Easting Coord.	: Surveyed
Total Depth of Boring	: 25.5 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 25.5 feet
Depth Drilled Into Rock	: NA
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 2.5Y7/6 yellow and 10YR6/6 brownish yellow.	Sample BKSB117 collected 0.0-1.0' bgs.
1	-1					
2	-2					
3	-3				Same as above; dry.	Geotechnical sample collected 3.0-4.0' bgs.
4	-4	CL			Same as above with weathered limestone interbeds.	
5	-5					
6	-6					Description from soil cuttings.
7	-7				Same as above with trace sand; dry.	
8	-8					
9	-9	SM			Silty SAND, fine; dry; non-plastic; carbonate (HCL fizz); 2.5Y8/4 pale yellow.	Sample BKSB118 collected 9.0-9.5' bgs.
10	-10					
11	-11				Same as above; dry.	
12	-12				Same as above except color change to 19YR8/2 very pale brown.	
13	-13					
14	-14	SP			Same as above SAND, fine; except no silt.	Sample BKSB119 collected 14.0-14.5' bgs.
15	-15					
16	-16					
17	-17				Same as above; dry.	Description from soil cuttings.
18	-18					
19	-19	SW			SAND, fine; dry; soft; non-carbonate; 2.5Y8/4 pale yellow.	Sample BKSB120 collected 19.0-20.0' bgs.
20	-20					
21	-21					
22	-22				Same as above; dry.	
23	-23	LS			LIMESTONE, weathered; dry; tan.	Description from soil cuttings.
24	-24					
25	-25					
26	-26				Blue-gray weathered limestone; dry. Bottom of Boring at 25.5' bgs.	
27	-27					
28	-28					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
29	-29					
30						

10-20-1999 t:\gov\coe\fthood\boring\logs\fhbkg\SB106.BOR

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB107

(Page 1 of 1)

FHBKG	: Background
Start Date	: 12/12/96
End Date	: 12/12/96
Northing Coord.	: 3438421.71 m
Easting Coord.	: 612222.83 m UTM 14 North
Total Depth of Boring	: 6.0 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 1.7 feet
Depth Drilled Into Rock	: 4.3 feet
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0					
		CL			Silty CLAY; weathered limestone fragments; dry; hard; non-plastic; mottled 10YR6/8 brownish yellow and 10YR6/2 light brownish gray.	Sample BKSB124 collected 0.0-1.0' bgs.
1	-1					
2	-2	LS			LIMESTONE, weathered, fossiliferous; Blue-Gray; 2.5Y6/1 gray.	
3	-3					Description from soil cuttings.
4	-4				Same as above	Sample BKSB125 collected 4.0-4.5' bgs.
5	-5					Description from soil cuttings.
					Same as above	Sample BKSB126 collected 5.5-6.0' bgs.
6	-6				Bottom of Boring at 6.0' bgs.	
7	-7					
8	-8					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
9	-9					
10						

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB107.BOR

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB108

(Page 1 of 1)

FHBKG	: Background
Start Date	: 01/14/97
End Date	: 01/14/97
Northing Coord.	: Not
Easting Coord.	: Surveyed
Total Depth of Boring	: 17.0 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: 15.0 feet
Depth Drilled Into Rock	: 2.0 feet
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0				Topsoil 0.0-0.4'	Sample BKSB135 collected 0.0-1.0' bgs.
1	-1	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 10YR6/8 brownish yellow.	
2	-2					
3	-3				Same as above; dry.	Description from soil cuttings.
4	-4					
5	-5				Same as above; dry; mottled with 2.5Y7/3 pale yellow.	Sample BKSB136 collected 5.0-5.5' bgs.
6	-6					
7	-7				Same as above; dry.	Description from soil cuttings.
8	-8					
9	-9				Same as above; dry.	Sample BKSB137 collected 9.0-9.5' bgs.
10	-10					
11	-11					
12	-12				Same as above; dry.	Description from soil cuttings.
13	-13					
14	-14				Same as above; less silty; dry.	Sample BKSB138 collected 14.0-14.5' bgs.
15	-15				Same as above; dry.	
16	-16	LS			LIMESTONE, weathered; blue-gray.	
17	-17				Same as above; dry.	Sample BKSB139 collected 16.5-17.0' bgs.
18	-18				Bottom of Boring at 17.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
19	-19					
20						

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB108.BOR

RCRA
Facilities
Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB109

(Page 1 of 1)

FHBKG	: Background
Start Date	: 01/15/97
End Date	: 01/15/97
Northing Coord.	: 3471041.79 m
Easting Coord.	: 626015.26 m UTM 14 North
Total Depth of Boring	: 24.0 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: Not Encountered
Depth Drilled Into Rock	: NA
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

Depth in feet	Surf. Elev. 730.62ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	730	CL			Silty CLAY; trace roots; trace rock fragments <1cm, angular to subrounded; damp; highly plastic; 5YR2.5/1 black.	Sample BKSB140 collected 0.0-1.0' bgs.
1						
2	729				Same as above; damp.	
3	728					
4	727				Same as above; damp.	Description from soil cuttings.
5	726					Sample BKSB141 collected 4.0-5.0' bgs.
6	725	CL			Silty CLAY; trace weathered limestone fragments; dry; stiff; non-plastic; 7.5YR6/4 light brown.	
7	724					
8	723				Some sand, fine, from 8-9' bgs.	Description from soil cuttings.
9	722				Same as above; dry.	
10	721					Sample BKSB142 collected 9.0-10.0' bgs.
11	720				Same as above except rock fragments (mostly weathered limestone) up to 20% of total matrix.	
12	719					
13	718				Same as above; dry.	Description from soil cuttings.
14	717					
15	716				Same as above; with limestone fragments up to 40%; also 10% fine sand; dry.	Sample BKSB143 collected 14.5-15.0' bgs.
16	715					
17	714				Same as above; dry.	Description from soil cuttings.
18	713					
19	712				Same as above; dry.	Sample BKSB144 collected 19.0-19.3' bgs.
20	711					
21	710					Description from soil cuttings.
22	709				Same as above; dry.	
23	708	SM			Silty SAND, fine to medium; moist; soft; moderately plastic; 7.5Y6/8 reddish yellow and 7.5 YR7/1 light gray.	Water in hole, attempted sample, no recovery in gravel at 24'
24	707	GP			Bottom of boring at 24.0' bgs. GRAVEL,angular;saturated	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
25	706					

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB109.BOR

RCRA Facilities Investigation
Fort Hood, Texas

U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB110

(Page 1 of 1)

FHBKG	: Background
Start Date	: 12/13/96
End Date	: 12/13/96
Northing Coord.	: 3472081.13 m
Easting Coord.	: 626432.83 m UTM 14 North
Total Depth of Boring	: 34.5 feet

Drilling Company	: Terra-Mar
Driller	: Bill Christopher
Designation of Drill	: Mobile Drill B-59
Type of Drill Rig	: Hollow Stem Auger
Geologist	: Jeff DeVaughn
Depth to Bedrock	: Not Encountered
Depth Drilled Into Rock	: NA
Borehole Diameter	: 8 inches
Sampling Equipment	: 4.25" Augers
	: CME Sampler 5' long

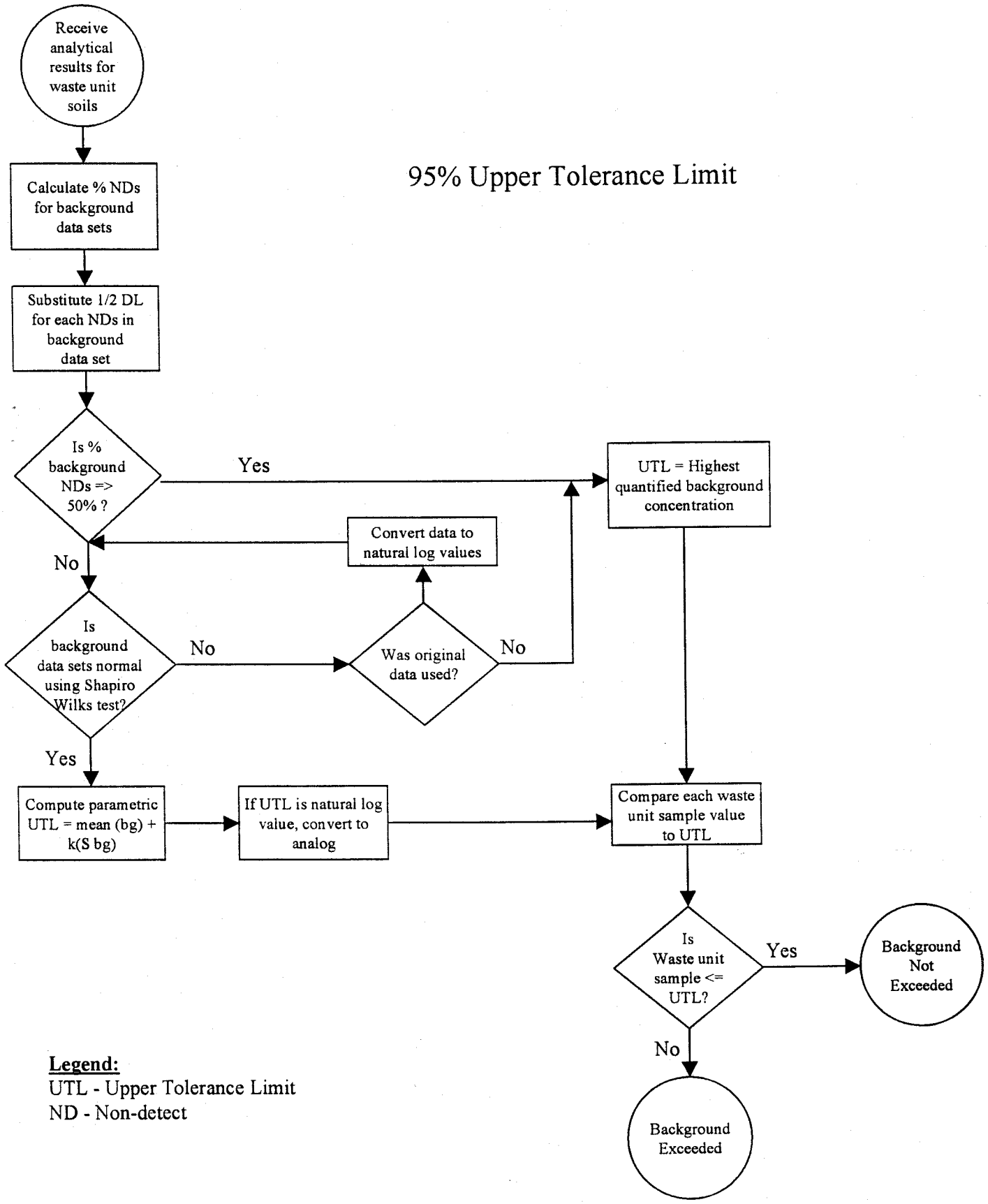
Depth in feet	Surf. Elev. 729.66ft	USCS	DESCRIPTION	REMARKS
0	729	SM	SAND, fine to medium; some silt; damp; soft; non-plastic; 7.5YR5/6 strong brown.	Sample BKSB127 collected 0.0-1.0' bgs.
1	728		Same as above; damp to moist.	
2	727			
3	726	SC	Clayey SAND; damp; firm; moderately plastic; 2.5YR4/6 red.	
4	725		Same as above; damp.	Sample BKSB128 collected 4.0-6.0' bgs.
5	724			
6	723		Same as above; damp.	
7	722			
8	721		Same as above; damp.	Geotechnical sample collected 8.0-9.0' bgs.
9	720			
10	719		Same as above; slightly less clay; dry.	Sample BKSB129 collected 10.0-11.0' bgs.
11	718			
12	717		Same as above; dry.	
13	716			
14	715		Same as above; less clay; dry; color change 5YR5/6 yellowish red.	
15	714		Same as above; dry.	Sample BKSB130 collected 15.0-16.0' bgs.
16	713		Same as above; dry;	
17	712			
18	711		Same as above; more clay; dry.	
19	710	CL	Silty CLAY; trace sand; trace tan weathered limestone fragments; dry; hard; 7.5YR6/6 reddish yellow.	Sample BKSB131 collected 20.0-21.0' bgs.
20	709		Same as above; dry.	
21	708			
22	707		Same as above; dry.	
23	706			
24	705		Same as above; dry.	Sample BKSB132 collected 25.0-26.0' bgs.
25	704			
26	703		Same as above; dry.	
27	702			
28	701		Same as above; with more silt; moist; softer.	
29	700			
30	699		Same as above; except very silty; damp; soft.	Sample BKSB133 collected 30.0-31.0' bgs.
31	698			
32	697			
33	696	SM	Silty SAND, fine; trace gravel and coarse sand at bottom; saturated; non-plastic; 7.5Y6/6 reddish yellow.	Sample BKSB134 collected 34.0-34.5' bgs.
34	695	GW	SAND, coarse, and GRAVEL, poorly sorted, angular to round; saturated; 1.5 water in hole.	
35	694		Bottom of boring at 34.5' bgs.	
36	693			
37	692			
38	691			Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
39	690			
40				

10-20-1999 t:\gov\coe\fthood\boringlogs\fhbkg\SB110.BOR

APPENDIX D

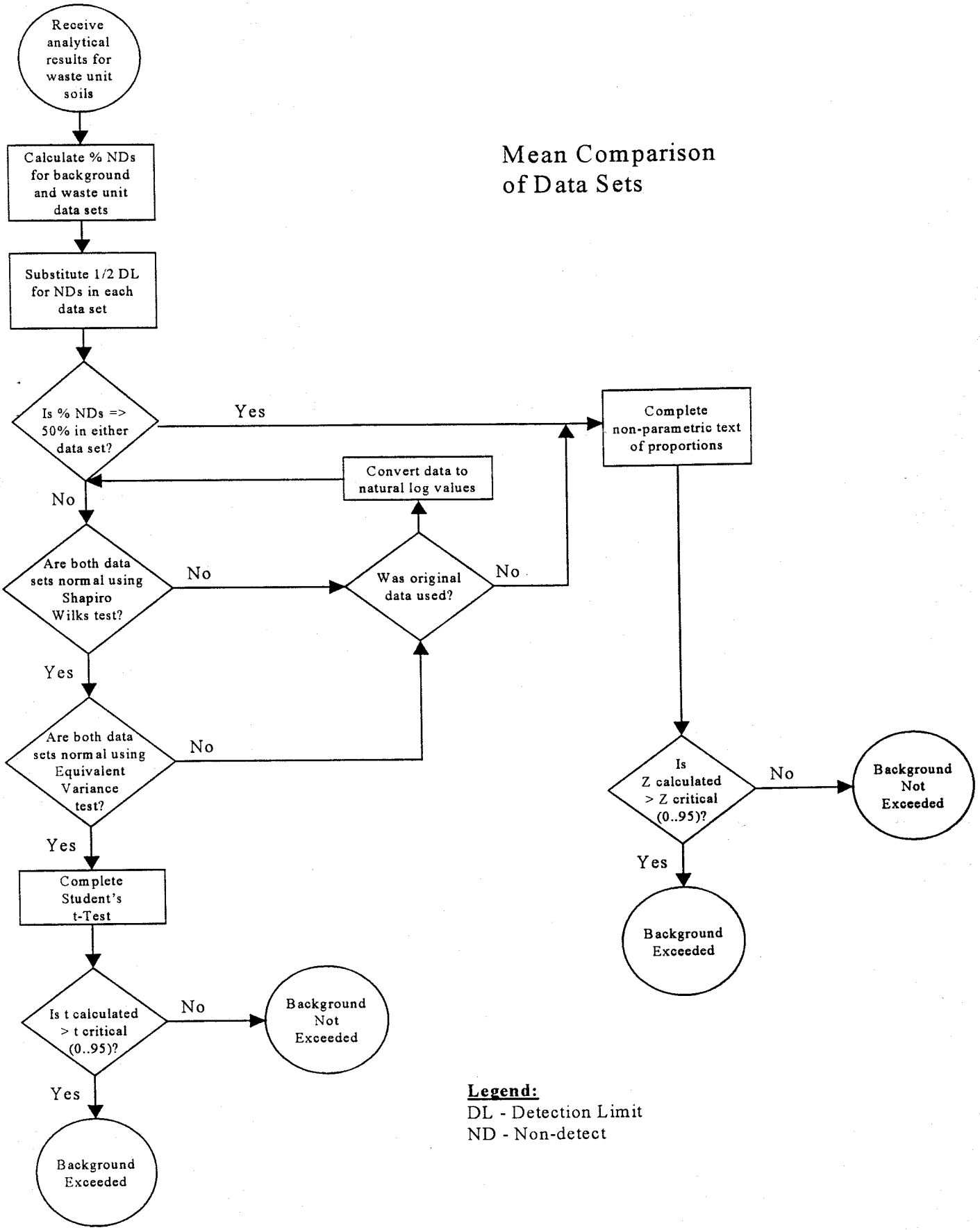
Statistical Calculations

95% Upper Tolerance Limit



Legend:
UTL - Upper Tolerance Limit
ND - Non-detect

Mean Comparison of Data Sets



Legend:
DL - Detection Limit
ND - Non-detect

Formulas for Shapiro Wilk or W test

1. Compute the denominator d of the W test statistic, using the n data;

$$d=\sum_{i}^{n}(x_i-\bar{x})^2$$

2. Order the n data form smallest to largest to obtain the sample order statistics

$$x_1 \leq x_2 \leq x_3 \leq \text{etc}$$

3. Compute k, where k= n/2 if n is even or

k=(n-1)/2 if n is odd

4. Turn to Table A6 in *Statistical Methods for Environmental Pollution Monitoring*, by Richard Gilbert, and for the observed n find the coefficients $a_1, a_2, \ldots, a_k$

5. Then compute W

$$W= 1/d\{\sum a_i(x_{[n-i+1]} - x_{[i]})\}^2$$

6. Reject H0 at the α significance level if W is less than the quantile given in Table A7 of *Statistical Methods for Environmental Pollution Monitoring*, by Richard Gilbert.

This procedure is used on the logrithms of data to test if distribution is lognormal.

95% UTL Calculations

1. Determine distribution. If normal use the data as is and 1/2 of the value for nondetects. If lognormal distribution calculate the 95% UTL on the log values.

2. Find the mean of the data set.

3. Find the standard deviation of data set

4. Based on the n of the data set look up the K value from *Statistical Methods for Environmental Pollution Monitoring*, by Richard Gilbert, Table A3.

5. Calculate the 95% UTL =mean+K(standard deviation)

For lognormal distribution, need to take the exponent of the 95%UTL of the log.

Methodology for the Mann-Whitney Test (a.k.a. Wilcoxon Test)

1. Perform combined ranking of SWMU data set and background data set. (See attached ranking results.)

   Compound A - Samples collected at SWMU

   Compound B - Background samples

2. Calculate the sampling distribution of U.

$$U = n_1 n_2 + \frac{n_1(n_1+1)}{2} - R_1$$

where,

n_1 and n_2 = sizes of the two data sets

R_1 = Sum of the ranks assigned to the values of the first sample.

3. Calculate the mean (μ_U) and the standard deviation (σ_U) of U.

$$\mu_U = \frac{n_1 n_2}{2} \qquad \sigma_U = \sqrt{\frac{n_1 n_2 (n_1 + n_2 + 1)}{12}}$$

4. Determine the statistical value z.

$$z = \frac{U - \mu_U}{\sigma_U}$$

5. Compare z to z_α

   Using $z_{0.05} = 1.645$, if $|z| > z_{0.05}$, the SWMU concentrations (Compound A) are significantly different than the background concentrations (Compound B).

Source: Freund, John E., Modern Elementary Statistics. 1967.

Soil Background 95% UTLs NO DUPLICATES						
smp_id	Mercury		Arsenic	Barium		
	Result (x)	Qual	Result (x)	Result	Qual	Ln(x)
BKSB101	0.04	U	3	21.3	J	3.05870707
BKSB102	0.04	U	2	8	J	2.07944154
BKSB103	0.04	U	9.1	14.7	J	2.68784749
BKSB105	0.04	U	4.3	23.4	J	3.15273602
BKSB106	0.04	U	4.4	43.7	J	3.7773481
BKSB107	0.04	U				
BKSB109	0.04	U	3.5	155	J	5.04342512
BKSB110	0.04	U	4.8	24.1	J	3.18221184
BKSB111	0.04	U	5.2	7.2	J	1.97408103
BKSB113	0.04	U	5.7	20.5	J	3.02042489
BKSB114	0.04	U	5.2	25.2	J	3.22684399
BKSB115	0.04	U	5.3	10.6	J	2.360854
BKSB116	0.04	U	11.6	4.9	J	1.58923521
BKSB118	0.04	U	2.6	4.4	J	1.48160454
BKSB119	0.04	U	0.66	3		1.09861229
BKSB120	0.04	U	0.44	2		0.69314718
BKSB122	0.04	U	3.2	6.1		1.80828877
BKSB123	0.04	U	3.8	5.5		1.70474809
BKSB125	0.04	U	3.2	18.1		2.89591194
BKSB126	0.04	U	2.5	5.4		1.68639895
BKSB128	0.04		3.6	36.3		3.59181774
BKSB129	0.04	U	2.6	26.3		3.26956894
BKSB130	0.04	U	1	8.1		2.09186406
BKSB131	0.04	U	5.3	65.9		4.18813844
BKSB132	0.04	U	4.2	41.7		3.73050113
BKSB133	0.04	U	3.2	68.6		4.22829253
BKSB134	0.04	U	2.9	20.1		3.00071982
BKSB136	0.04	U	4.3	14.8	J	2.69462718
BKSB137	0.04	U	8.2	7.8	J	2.05412373
BKSB138	0.04	U	9.2	12.2	J	2.50143595
BKSB139	0.04	U	7.6	7.3	J	1.98787435
BKSB141	0.04	U	5.6	127	J	4.84418709
BKSB142	0.04	U	3.8	63	J	4.14313473
BKSB143	0.04	U	3.8	39.3	J	3.67122452
BKSB144	0.04	U	3.7	36.1	J	3.58629287
BKSB104	0.04	U	6.2	28.2	J	3.33932198
BKSB108	0.04	U	6	72.4	J	4.2822063
BKSB112	0.04	U	1.6	6.6	J	1.88706965
BKSB117	0.04	U	4.4	27.9	J	3.32862669
BKSB121	0.04	U	4.1	24		3.17805383
BKSB124	0.04	U	6	19.3		2.9601051
BKSB127	0.04	U	1.9	18.8		2.93385687
BKSB135	0.04	U	2.7	15.4	J	2.73436751
BKSB140	0.04	U	4.8	108	J	4.68213123
%nondetects=	0.04	0.95744681			0	
Distribution	D		N			L
Mean	0.04		4.35348837	30.1906977		2.91700954
std dev	0		2.29920368	33.4734423		1.01859487
n	44		43	43		43
K	2.097		2.102	2.102		2.102
UTL	0.04		**9.1864145**	100.55187		5.058096
UTL(ln)=exp(mean + K(std d						**157.29074**

Soil Background							
smp_id	Cadmium				Chromium		
	Result (x)	Qual	1/2 nondetects	Ln(x)	Result (x)	Qual	Ln(x)
BKSB101	0.12		0.12	-2.1202635	5.1	J	1.62924054
BKSB102	0.05		0.05	-2.9957323	10.3	J	2.3321439
BKSB103	0.05	U	0.025	-3.6888795	10.1	J	2.31253542
BKSB105	0.11		0.11	-2.2072749	4	J	1.38629436
BKSB106	0.16		0.16	-1.8325815	7.6	J	2.02814825
BKSB107	0.35		0.35	-1.0498221	5.1	J	1.62924054
BKSB109	0.07		0.07	-2.65926	6.5	J	1.87180218
BKSB110	0.06		0.06	-2.8134107	16.6	J	2.8094027
BKSB111	0.05		0.05	-2.9957323	6.2	J	1.82454929
BKSB113	0.07		0.07	-2.65926	8.9	J	2.18605128
BKSB114	0.05	U	0.025	-3.6888795	20.3	J	3.01062089
BKSB115	0.06		0.06	-2.8134107	7.3	J	1.98787435
BKSB116	0.2		0.2	-1.6094379	2.7	J	0.99325177
BKSB118	0.19		0.19	-1.6607312	2.2	J	0.78845736
BKSB119	0.06		0.06	-2.8134107	2.1		0.74193734
BKSB120	0.04	U	0.02	-3.912023	0.93		-0.0725707
BKSB122	0.06		0.06	-2.8134107	4.9		1.58923521
BKSB123	0.08		0.08	-2.5257286	4.3		1.45861502
BKSB125	0.11		0.11	-2.2072749	5.1		1.62924054
BKSB126	0.06		0.06	-2.8134107	5.5		1.70474809
BKSB128	0.05	U	0.025	-3.6888795	8.5		2.14006616
BKSB129	0.04	U	0.02	-3.912023	4.6		1.5260563
BKSB130	0.07		0.07	-2.65926	1.8		0.58778666
BKSB131	0.15		0.15	-1.89712	7.7		2.04122033
BKSB132	0.04	U	0.02	-3.912023	5.9		1.77495235
BKSB133	0.11		0.11	-2.2072749	4.9		1.58923521
BKSB134	0.08		0.08	-2.5257286	1.2		0.18232156
BKSB136	0.2	J	0.2	-1.6094379	8.3		2.11625551
BKSB137	0.18	J	0.18	-1.7147984	8.1		2.09186406
BKSB138	0.21	J	0.21	-1.5606477	11.1		2.40694511
BKSB139	0.2	J	0.2	-1.6094379	8.4		2.12823171
BKSB141	0.45	J	0.45	-0.7985077	23.6		3.16124671
BKSB142	0.29	J	0.29	-1.2378744	8.4		2.12823171
BKSB143	0.27	J	0.27	-1.3093333	12.2		2.50143595
BKSB144	0.2	J	0.2	-1.6094379	6.5		1.87180218
BKSB104	0.15		0.15	-1.89712	3.1	J	1.13140211
BKSB108	0.2		0.2	-1.6094379	12.9	J	2.55722731
BKSB112	0.04	U	0.02	-3.912023	4	J	1.38629436
BKSB117	0.18		0.18	-1.7147984	5.7	J	1.74046617
BKSB121	0.18		0.18	-1.7147984	6.3		1.84054963
BKSB124	0.11		0.11	-2.2072749	7.2		1.97408103
BKSB127	0.04	U	0.02	-3.912023	3.7		1.30833282
BKSB135	0.17	J	0.17	-1.7719568	6.1		1.80828877
BKSB140	0.79	J	0.79	-0.2357223	16.1		2.77881927
%nondetects=		0.19148936				0	
Distribution				L			L
Mean	0.14545455			-2.343338	7.31886364		1.78668026
std dev	0.13475999			0.92656476	4.7817999		0.68062712
n	44			44	44		44
K	2.097			2.097	2.097		2.097
UTL	0.4280462			-0.400332	17.346298		3.2139553
UTL(ln)=exp(me				**0.6700977**			**24.87729**

Soil Background							
smp_id	Lead			Selenium		Silver	
	Result (x)	Qual	Ln(x)	Result (x)	Qual	Result (x)	Qual
BKSB101	6	J	1.79175947	0.37	U	0.24	U
BKSB102	5	J	1.60943791	0.36	U	0.23	U
BKSB103	9.5	J	2.2512918	0.38	U	0.24	U
BKSB105	3.9	J	1.36097655	0.33	U	0.21	U
BKSB106	5	J	1.60943791	0.33	U	0.21	U
BKSB107	6.1	J	1.80828877	0.36	U	0.23	U
BKSB109	3.2	J	1.16315081	0.34	U	0.22	U
BKSB110	7.8	J	2.05412373	0.36	U	0.23	U
BKSB111	5.3	J	1.66770682	0.35	U	0.22	U
BKSB113	6	J	1.79175947	0.36	U	0.23	U
BKSB114	7.7	J	2.04122033	0.38	U	0.24	U
BKSB115	5.1	J	1.62924054	0.32	U	0.2	U
BKSB116	5.6	J	1.7227666	0.33	U	0.21	U
BKSB118	3.7	J	1.30833282	0.34	U	0.21	U
BKSB119	1.3	J	0.26236426	0.33	U	0.21	U
BKSB120	0.72	J	-0.3285041	0.32	U	0.2	U
BKSB122	4.1	J	1.41098697	0.33	U	0.21	U
BKSB123	3.8	J	1.33500107	0.33	U	0.21	U
BKSB125	1.7	J	0.53062825	0.36		0.2	U
BKSB126	1.5	J	0.40546511	0.44		0.21	U
BKSB128	7.5	J	2.01490302	0.35	U	0.22	U
BKSB129	4.1	J	1.41098697	0.33	U	0.21	U
BKSB130	3.1	J	1.13140211	0.32	U	0.2	U
BKSB131	10.1	J	2.31253542	0.34	U	0.22	U
BKSB132	7.8	J	2.05412373	0.34	U	0.21	U
BKSB133	6.3	J	1.84054963	0.35	U	0.22	U
BKSB134	2.3	J	0.83290912	0.33	U	0.21	U
BKSB136	3	J	1.09861229	0.32	R	0.22	U
BKSB137	2.3	J	0.83290912	0.31	R	0.21	U
BKSB138	4.1	J	1.41098697	0.32	R	0.22	U
BKSB139	3.6	J	1.28093385	0.31	R	0.21	U
BKSB141	12.1	J	2.49320545	1.8	R	0.25	U
BKSB142	5	J	1.60943791	1.9	R	0.25	U
BKSB143	6.6	J	1.88706965	0.35	R	0.24	U
BKSB144	4	J	1.38629436	0.31	R	0.21	U
BKSB104	5.3	J	1.66770682	0.32	U	0.2	U
BKSB108	9.8	J	2.28238239	0.37	U	0.23	U
BKSB112	1.5	J	0.40546511	0.32	U	0.2	U
BKSB117	8.3	J	2.11625551	0.33	U	0.21	U
BKSB121	10.2	J	2.32238772	0.34	U	0.22	U
BKSB124	4.5	J	1.5040774	0.34	U	0.21	U
BKSB127	3.8	J	1.33500107	0.33	U	0.21	U
BKSB135	2.5	J	0.91629073	1.5	R	0.21	U
BKSB140	33.2	J	3.50254988	0.35	R	0.24	U
%nondetects=		0					
Distribution			L	D		D	
Mean	5.77318182		1.52441844	0.345		0.21795455	
std dev	4.99838289		0.67810106	0.02427744		0.01390659	
n	44		44				
K	2.097		2.097				
UTL	16.254791		2.9463964				
UTL(ln)=exp(me			19.037227				

Shapiro Wilk for Arsenic

smp_id	Arsenic				a(n-i+1)	b(i)
BKSB101	3	0.44	11.6	11.16	0.3894	4.345704
BKSB102	2	0.66	9.2	8.54	0.2684	2.292136
BKSB103	9.1	1	9.1	8.1	0.2334	1.89054
BKSB104	6.2	1.6	8.2	6.6	0.2078	1.37148
BKSB105	4.3	1.9	7.6	5.7	0.1871	1.06647
BKSB106	4.4	2	6.2	4.2	0.1695	0.7119
BKSB108	6	2.5	6	3.5	0.1539	0.53865
BKSB109	3.5	2.6	6	3.4	0.1398	0.47532
BKSB110	4.8	2.6	5.7	3.1	0.1269	0.39339
BKSB111	5.2	2.7	5.6	2.9	0.1149	0.33321
BKSB112	1.6	2.9	5.3	2.4	0.1035	0.2484
BKSB113	5.7	3	5.3	2.3	0.0927	0.21321
BKSB114	5.2	3.2	5.2	2	0.0824	0.1648
BKSB115	5.3	3.2	5.2	2	0.0724	0.1448
BKSB116	11.6	3.2	4.8	1.6	0.0628	0.10048
BKSB117	4.4	3.5	4.8	1.3	0.0534	0.06942
BKSB118	2.6	3.6	4.4	0.8	0.0442	0.03536
BKSB119	0.66	3.7	4.4	0.7	0.0352	0.02464
BKSB120	0.44	3.8	4.3	0.5	0.0263	0.01315
BKSB121	4.1	3.8	4.30	0.5	0.0175	0.00875
BKSB122	3.2	3.8	4.2	0.4	0.0087	0.00348
BKSB123	3.8	4.1	4.1	0	0	0
BKSB124	6	4.2	3.8	-0.4		
BKSB125	3.2	4.3	3.8	-0.5		
BKSB126	2.5	4.30	3.8	-0.5	sum Bi=	14.44529
BKSB127	1.9	4.4	3.7	-0.7		
BKSB128	3.6	4.4	3.6	-0.8	W(0.05,43)	0.943
BKSB129	2.6	4.8	3.5	-1.3	W=	0.939827935
BKSB130	1	4.8	3.2	-1.6		
BKSB131	5.3	5.2	3.2	-2		
BKSB132	4.2	5.2	3.2	-2		
BKSB133	3.2	5.3	3	-2.3		
BKSB134	2.9	5.3	2.9	-2.4		
BKSB135	2.7	5.6	2.7	-2.9		
BKSB136	4.30	5.7	2.6	-3.1		
BKSB137	8.2	6	2.6	-3.4		
BKSB138	9.2	6	2.5	-3.5		
BKSB139	7.6	6.2	2	-4.2		
BKSB140	4.8	7.6	1.9	-5.7		
BKSB141	5.6	8.2	1.6	-6.6		
BKSB142	3.8	9.1	1	-8.1		
BKSB143	3.8	9.2	0.66	-8.54		
BKSB144	3.7	11.6	0.44	-11.16		
Sum of xi	187.2					
Mean	4.3534884					
n=	43					
sum of xi^2	1036.9992					
1/n=	0.0232558					
xi=(sum xi)^2	35043.84					
d=	222.02618					
W=	0.9398279					
W(0.05,43)=	0.943					
W<W(0.5,43), the distribution is approximately normal						

Shapiro Wilk for Arsenic

	ln of ordered Conc. x(i)		ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
	-0.820980552	0.674009067	2.451005098	3.27198565	0.3894	1.27411121
	-0.415515444	0.172653084	2.219203484	2.63471893	0.2684	0.70715856
	0	0	2.208274414	2.20827441	0.2334	0.51541125
	0.470003629	0.220903412	2.104134154	1.63413053	0.2078	0.33957232
	0.641853886	0.411976411	2.028148247	1.38629436	0.1871	0.25937567
	0.693147181	0.480453014	1.824549292	1.13140211	0.1695	0.19177266
	0.916290732	0.839588705	1.791759469	0.87546874	0.1539	0.13473464
	0.955511445	0.913002122	1.791759469	0.83624802	0.1398	0.11690747
	0.955511445	0.913002122	1.740466175	0.78495473	0.1269	0.09961076
	0.993251773	0.986549085	1.722766598	0.72951482	0.1149	0.08382125
	1.064710737	1.133608953	1.667706821	0.60299608	0.1035	0.06241009
	1.098612289	1.206948961	1.667706821	0.56909453	0.0927	0.05275506
	1.16315081	1.352919806	1.648658626	0.48550782	0.0824	0.04000584
	1.16315081	2.781246039	1.648658626	0.48550782	0.0724	0.03515077
	1.16315081	6.007425991	1.568615918	0.40546511	0.0628	0.02546321
	1.252762968	2.195152016	1.568615918	0.31585295	0.0534	0.01686655
	1.280933845	0.913002122	1.481604541	0.2006707	0.0442	0.00886964
	1.30833282	0.172653084	1.481604541	0.17327172	0.0352	0.00609916
	1.335001067	0.674009067	1.458615023	0.12361396	0.0263	0.00325105
	1.335001067	1.99088424	1.458615023	0.12361396	0.0175	0.00216324
	1.335001067	1.352919806	1.435084525	0.10008346	0.0087	0.00087073
	1.410986974	1.782227848	1.410986974	0		0
	1.435084525	3.210401996	1.335001067	-0.1000835		0
	1.458615023	1.352919806	1.335001067	-0.123614		0
	1.458615023	0.839588705	1.335001067	-0.123614		
	1.481604541	0.411976411	1.30833282	-0.1732717		3.97638115
	1.481604541	1.640791516	1.280933845	-0.2006707		
	1.568615918	0.913002122	1.252762968	-0.3158529	W(0.05,43)	0.943
	1.568615918	0	1.16315081	-0.4054651	W(ln)=	0.91061638
	1.648658626	2.781246039	1.16315081	-0.4855078		
	1.648658626	2.059467595	1.16315081	-0.4855078		
	1.667706821	1.352919806	1.098612289	-0.5690945		
	1.667706821	1.133608953	1.064710737	-0.6029961		
	1.722766598	0.986549085	0.993251773	-0.7295148		
	1.740466175	2.127557784	0.955511445	-0.7849547		
	1.791759469	4.427380539	0.955511445	-0.836248		
	1.791759469	4.924864104	0.916290732	-0.8754687		
	1.824549292	4.113385313	0.693147181	-1.1314021		
	2.028148247	2.460555898	0.641853886	-1.3862944		
	2.104134154	2.96792475	0.470003629	-1.6341305		
	2.208274414	1.782227848	0	-2.2082744		
	2.219203484	1.782227848	-0.415515444	-2.6347189		
	2.451005098	1.711734767	-0.820980552	-3.2719857		
Sum of xi	56.26742214		56.26742214			
Mean	1.308544701					
n=	43					
sum of xi^2	90.99206827					
1/n=	0.023255814					
xi=(sum xi)^2	3166.022794					
d=	17.3636312					
W=	0.910616383					
W(0.05,43)=	0.943					
W<W(0.5,43), the distribution is not lognormal						

Shapiro Wilk for Barium

	Bkgd Conc (xi) (mg/kg)	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	21.3	2	155	153	0.3894	59.5782
BKSB102	8	3	127	124	0.2684	33.2816
BKSB103	14.7	4.4	108	103.6	0.2334	24.18024
BKSB105	23.4	4.9	72.4	67.5	0.2078	14.0265
BKSB106	43.7	5.4	68.6	63.2	0.1871	11.82472
BKSB107		5.5	65.9	60.4	0.1695	10.2378
BKSB109	155	6.1	63	56.9	0.1539	8.75691
BKSB110	24.1	6.6	43.7	37.1	0.1398	5.18658
BKSB111	7.2	7.2	41.7	34.5	0.1269	4.37805
BKSB113	20.5	7.3	39.3	32	0.1149	3.6768
BKSB114	25.2	7.8	36.3	28.5	0.1035	2.94975
BKSB115	10.6	8	36.1	28.1	0.0927	2.60487
BKSB116	4.9	8.1	28.2	20.1	0.0824	1.65624
BKSB118	4.4	10.6	27.9	17.3	0.0724	1.25252
BKSB119	3	12.2	26.3	14.1	0.0628	0.88548
BKSB120	2	14.7	25.2	10.5	0.0534	0.5607
BKSB122	6.1	14.8	24.1	9.3	0.0442	0.41106
BKSB123	5.5	15.4	24	8.6	0.0352	0.30272
BKSB125	18.1	18.1	23.4	5.3	0.0263	0.13939
BKSB126	5.4	18.8	21.3	2.5	0.0175	0.04375
BKSB128	36.3	19.3	20.5	1.2	0.0087	0.01044
BKSB129	26.3	20.1	20.1	0	0	0
BKSB130	8.1	20.5	19.3	-1.2		0
BKSB131	65.9	21.3	18.8	-2.5		0
BKSB132	41.7	23.4	18.1	-5.3		
BKSB133	68.6	24	15.4	-8.6	sum Bi=	185.94432
BKSB134	20.1	24.1	14.8	-9.3		
BKSB136	14.8	25.2	14.7	-10.5	W(0.05,43)	0.943
BKSB137	7.8	26.3	12.2	-14.1	W=	0.73470973
BKSB138	12.2	27.9	10.6	-17.3		
BKSB139	7.3	28.2	8.1	-20.1		
BKSB141	127	36.1	8	-28.1		
BKSB142	63	36.3	7.8	-28.5		
BKSB143	39.3	39.3	7.3	-32		
BKSB144	36.1	41.7	7.2	-34.5		
BKSB104	28.2	43.7	6.6	-37.1		
BKSB108	72.4	63	6.1	-56.9		
BKSB112	6.6	65.9	5.5	-60.4		
BKSB117	27.9	68.6	5.4	-63.2		
BKSB121	24	72.4	4.9	-67.5		
BKSB124	19.3	108	4.4	-103.6		
BKSB127	18.8	127	3	-124		
BKSB135	15.4	155	2	-153		
BKSB140	108			0		
Sum of xi	1298.2					
Mean	30.19069767					
n=	43					
sum of xi^2	86253.36					
1/n=	0.023255814					
xi=(sum xi)^2	1685323.24					
d=	47059.79628					
W=	0.734709728					
W(0.05,43)=	0.943					
W<W(0.5,43), distribution is not Normal						

Shapiro Wilk for Barium

	ln of ordered Conc. x(i)		ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
	0.693147181	0.48045301	5.043425117	4.35027794	0.3894	1.693998228
	1.098612289	1.20694896	4.844187086	3.7455748	0.2684	1.005312276
	1.481604541	2.19515202	4.682131227	3.20052669	0.2334	0.747002929
	1.589235205	2.52566854	4.282206299	2.69297109	0.2078	0.559599393
	1.686398954	2.84394143	4.228292535	2.54189358	0.1871	0.475588289
	1.704748092	2.90616606	4.188138442	2.48339035	0.1695	0.420934664
	1.808288771	3.26990828	4.143134726	2.33484596	0.1539	0.359332793
	1.887069649	3.56103186	3.777348102	1.89027845	0.1398	0.264260928
	1.974081026	3.8969959	3.730501129	1.7564201	0.1269	0.222889711
	1.987874348	3.95164442	3.671224519	1.68335017	0.1149	0.193416935
	2.054123734	4.21942431	3.591817741	1.53769401	0.1035	0.15915133
	2.079441542	4.32407713	3.586292865	1.50685132	0.0927	0.139685118
	2.091864062	4.37589525	3.339321978	1.24745792	0.0824	0.102790532
	2.360854001	5.57363161	3.328626689	0.96777269	0.0724	0.070066743
	2.501435952	6.25718182	3.269568939	0.76813299	0.0628	0.048238752
	2.687847494	7.22452415	3.226843995	0.5389965	0.0534	0.028782413
	2.694627181	7.26101564	3.18221184	0.48758466	0.0442	0.021551242
	2.734367509	7.47676568	3.17805383	0.44368632	0.0352	0.015617758
	2.895911938	8.38630595	3.152736022	0.25682408	0.0263	0.006754473
	2.93385687	8.60751613	3.058707073	0.1248502	0.0175	0.002184879
	2.960105096	8.76222218	3.020424886	0.06031979	0.0087	0.000524782
	3.000719815	9.00431941	3.000719815	0		0
	3.020424886	9.12296649	2.960105096	-0.0603198		0
	3.058707073	9.35568896	2.93385687	-0.1248502		0
	3.152736022	9.93974443	2.895911938	-0.2568241		
	3.17805383	10.1000261	2.734367509	-0.4436863		6.537684167
	3.18221184	10.1264722	2.694627181	-0.4875847		
	3.226843995	10.4125222	2.687847494	-0.5389965	W(0.05,43)	0.943
	3.269568939	10.690081	2.501435952	-0.768133	W(ln)=	0.98083423
	3.328626689	11.0797556	2.360854001	-0.9677727		
	3.339321978	11.1510713	2.091864062	-1.2474579		
	3.586292865	12.8614965	2.079441542	-1.5068513		
	3.591817741	12.9011547	2.054123734	-1.537694		
	3.671224519	13.4778895	1.987874348	-1.6833502		
	3.730501129	13.9166387	1.974081026	-1.7564201		
	3.777348102	14.2683587	1.887069649	-1.8902785		
	4.143134726	17.1655654	1.808288771	-2.334846		
	4.188138442	17.5405036	1.704748092	-2.4833903		
	4.228292535	17.8784578	1.686398954	-2.5418936		
	4.282206299	18.3372908	1.589235205	-2.6929711		
	4.682131227	21.9223528	1.481604541	-3.2005267		
	4.844187086	23.4661485	1.098612289	-3.7455748		
	5.043425117	25.4361369	0.693147181	-4.3502779		
Sum of xi	125.4314103		125.4314103			
Mean	2.917009542					
n=	43					
sum of xi^2	409.4611119					
1/n=	0.023255814					
xi=(sum xi)^	15733.03869					
d=	43.57649126					
W(ln)=	0.98083423					
W(0.05,43)	0.943					
W>W(0.5,43), distribution is lognormal						

Shapiro Wilk for Cadmium

smp_id	Cadmium	(xi)^2	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)	smp_id
BKSB101	0.12	0.0144	0.02	0.79	0.77	0.3872	0.298144	BKSB101
BKSB102	0.05	0.0025	0.02	0.45	0.43	0.2667	0.114681	BKSB102
BKSB103	0.025	0.00063	0.02	0.35	0.33	0.2323	0.076659	BKSB103
BKSB104	0.15	0.0225	0.02	0.29	0.27	0.2072	0.055944	BKSB104
BKSB105	0.11	0.0121	0.02	0.27	0.25	0.1868	0.0467	BKSB105
BKSB106	0.16	0.0256	0.025	0.21	0.185	0.1695	0.031358	BKSB106
BKSB107	0.35	0.1225	0.025	0.2	0.175	0.1542	0.026985	BKSB107
BKSB108	0.2	0.04	0.025	0.2	0.175	0.1405	0.024588	BKSB108
BKSB109	0.07	0.0049	0.05	0.2	0.15	0.1278	0.01917	BKSB109
BKSB110	0.06	0.0036	0.05	0.2	0.15	0.116	0.0174	BKSB110
BKSB111	0.05	0.0025	0.06	0.2	0.14	0.1049	0.014686	BKSB111
BKSB112	0.02	0.0004	0.06	0.19	0.13	0.0943	0.012259	BKSB112
BKSB113	0.07	0.0049	0.06	0.18	0.12	0.0842	0.010104	BKSB113
BKSB114	0.025	0.00063	0.06	0.18	0.12	0.0745	0.00894	BKSB114
BKSB115	0.06	0.0036	0.06	0.18	0.12	0.0651	0.007812	BKSB115
BKSB116	0.2	0.04	0.07	0.17	0.1	0.056	0.0056	BKSB116
BKSB117	0.18	0.0324	0.07	0.16	0.09	0.0471	0.004239	BKSB117
BKSB118	0.19	0.0361	0.07	0.15	0.08	0.0383	0.003064	BKSB118
BKSB119	0.06	0.0036	0.08	0.15	0.07	0.0296	0.002072	BKSB119
BKSB120	0.02	0.0004	0.08	0.12	0.04	0.0211	0.000844	BKSB120
BKSB121	0.18	0.0324	0.11	0.11	0	0.0126	0	BKSB121
BKSB122	0.06	0.0036	0.11	0.11	0	0.0042	0	BKSB122
BKSB123	0.08	0.0064	0.11	0.11	0	0	0	BKSB123
BKSB124	0.11	0.0121	0.11	0.11	0		0	BKSB124
BKSB125	0.11	0.0121	0.12	0.08	-0.04			BKSB125
BKSB126	0.06	0.0036	0.15	0.08	-0.07	Sum of b=	0.781248	BKSB126
BKSB127	0.02	0.0004	0.15	0.07	-0.08			BKSB127
BKSB128	0.025	0.00063	0.16	0.07	-0.09	W=	0.744801	BKSB128
BKSB129	0.02	0.0004	0.17	0.07	-0.1	W(0.05,44)	0.944	BKSB129
BKSB130	0.07	0.0049	0.18	0.06	-0.12			BKSB130
BKSB131	0.15	0.0225	0.18	0.06	-0.12			BKSB131
BKSB132	0.02	0.0004	0.18	0.06	-0.12			BKSB132
BKSB133	0.11	0.0121	0.19	0.06	-0.13			BKSB133
BKSB134	0.08	0.0064	0.2	0.06	-0.14			BKSB134
BKSB135	0.17	0.0289	0.2	0.05	-0.15			BKSB135
BKSB136	0.2	0.04	0.2	0.05	-0.15			BKSB136
BKSB137	0.18	0.00063	0.2	0.025	-0.175			BKSB137
BKSB138	0.21	0.0225	0.2	0.025	-0.175			BKSB138
BKSB139	0.2	0.0121	0.21	0.025	-0.185			BKSB139
BKSB140	0.79	0.0256	0.27	0.02	-0.25			BKSB140
BKSB141	0.45	0.1225	0.29	0.02	-0.27			BKSB141
BKSB142	0.29	0.04	0.35	0.02	-0.33			BKSB142
BKSB143	0.27	0.0049	0.45	0.02	-0.43			BKSB143
BKSB144	0.2	0.0036	0.79	0.02	-0.77			BKSB144
Sum of xi	6.225							Sum of xi
Mean	0.14147727							Mean
n=	44							n=
sum of xi^2	1.700175							sum of xi^2
1/n=	0.02272727							1/n=
xi=(sum xi)^2	38.750625							xi=(sum xi)^2
d=	0.81947898							d=
W=	0.7448006							W=
W(0.05,44)=	0.944							W(0.05,44)=
W<W(0.5,44), the distribution is not normal								W<W(0.5,44),

Shapiro Wilk for Cadmium

ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
-3.912023005	15.303924	-0.2357223	3.67630067	0.3872	1.42346362
-3.912023005	15.303924	-0.7985077	3.11351531	0.2667	0.83037453
-3.912023005	15.303924	-1.0498221	2.86220088	0.2323	0.66488926
-3.912023005	15.303924	-1.2378744	2.67414865	0.2072	0.5540836
-3.912023005	15.303924	-1.3093333	2.60268969	0.1868	0.48618243
-3.688879454	13.607832	-1.5606477	2.12823171	0.1695	0.36073527
-3.688879454	13.607832	-1.6094379	2.07944154	0.1542	0.32064989
-3.688879454	13.607832	-1.6094379	2.07944154	0.1405	0.29216154
-2.995732274	8.9744119	-1.6094379	1.38629436	0.1278	0.17716842
-2.995732274	8.9744119	-1.6094379	1.38629436	0.116	0.16081015
-2.813410717	7.9152799	-1.6094379	1.2039728	0.1049	0.12629675
-2.813410717	7.9152799	-1.6607312	1.15267951	0.0943	0.10869768
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0842	0.09250315
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0745	0.08184662
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0651	0.07151966
-2.659260037	7.0716639	-1.7719568	0.8873032	0.056	0.04968898
-2.659260037	7.0716639	-1.8325815	0.82667857	0.0471	0.03893656
-2.659260037	7.0716639	-1.89712	0.76214005	0.0383	0.02918996
-2.525728644	6.3793052	-1.89712	0.62860866	0.0296	0.01860682
-2.525728644	6.3793052	-2.1202635	0.40546511	0.0211	0.00855531
-2.207274913	4.8720625	-2.2072749	0	0.0126	0
-2.207274913	4.8720625	-2.2072749	0	0.0042	0
-2.207274913	4.8720625	-2.2072749	0	0	0
-2.207274913	4.8720625	-2.2072749	0		0
-2.120263536	4.4955175	-2.5257286	-0.40546511		
-1.897119985	3.5990642	-2.5257286	-0.62860866	Sum of b=	5.8963602
-1.897119985	3.5990642	-2.65926	-0.76214005		
-1.832581464	3.3583548	-2.65926	-0.82667857	W=	0.94177684
-1.771956842	3.139831	-2.65926	-0.8873032	W(0.05,44)	0.944
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.660731207	2.7580281	-2.8134107	-1.15267951		
-1.609437912	2.5902904	-2.8134107	-1.2039728		
-1.609437912	2.5902904	-2.9957323	-1.38629436		
-1.609437912	2.5902904	-2.9957323	-1.38629436		
-1.609437912	2.5902904	-3.6888795	-2.07944154		
-1.609437912	2.5902904	-3.6888795	-2.07944154		
-1.560647748	2.4356214	-3.6888795	-2.12823171		
-1.30933332	1.7143537	-3.912023	-2.60268969		
-1.237874356	1.5323329	-3.912023	-2.67414865		
-1.049822124	1.1021265	-3.912023	-2.86220088		
-0.798507696	0.6376145	-3.912023	-3.11351531		
-0.235722334	0.055565	-3.912023	-3.67630067		
-103.106874					
-2.343338046					
44					
278.5307172					
0.022727273					
10631.02747					
36.91645655					
0.941776836					
0.944					
he distribution is approximately lognormal					

Shapiro Wilk Chromium

smp_id	Chromium	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	5.1	0.93	23.6	22.67	0.3872	8.777824
BKSB102	10.3	1.2	20.3	19.1	0.2667	5.09397
BKSB103	10.1	1.8	16.6	14.8	0.2323	3.43804
BKSB104	3.1	2.1	16.1	14	0.2072	2.9008
BKSB105	4	2.2	12.9	10.7	0.1868	1.99876
BKSB106	7.6	2.7	12.2	9.5	0.1695	1.61025
BKSB107	5.1	3.1	11.1	8	0.1542	1.2336
BKSB108	12.9	3.7	10.3	6.6	0.1405	0.9273
BKSB109	6.5	4	10.1	6.1	0.1278	0.77958
BKSB110	16.6	4	8.9	4.9	0.116	0.5684
BKSB111	6.2	4.3	8.5	4.2	0.1049	0.44058
BKSB112	4	4.6	8.4	3.8	0.0943	0.35834
BKSB113	8.9	4.9	8.4	3.5	0.0842	0.2947
BKSB114	20.3	4.9	8.30	3.4	0.0745	0.2533
BKSB115	7.3	5.1	8.1	3	0.0651	0.1953
BKSB116	2.7	5.1	7.7	2.6	0.056	0.1456
BKSB117	5.7	5.1	7.6	2.5	0.0471	0.11775
BKSB118	2.2	5.5	7.3	1.8	0.0383	0.06894
BKSB119	2.1	5.7	7.2	1.5	0.0296	0.0444
BKSB120	0.93	5.9	6.5	0.6	0.0211	0.01266
BKSB121	6.3	6.1	6.5	0.4	0.0126	0.00504
BKSB122	4.9	6.2	6.3	0.1	0.0042	0.00042
BKSB123	4.3	6.3	6.2	-0.1	0	0
BKSB124	7.2	6.5	6.1	-0.4	0.0037	-0.00148
BKSB125	5.1	6.5	5.9	-0.6	Sum of b=	29.264074
BKSB126	5.5	7.2	5.7	-1.5		
BKSB127	3.7	7.3	5.5	-1.8	W=	0.87100033
BKSB128	8.5	7.6	5.1	-2.5	W(0.05,45)	0.945
BKSB129	4.6	7.7	5.1	-2.6		
BKSB130	1.8	8.1	5.1	-3		
BKSB131	7.7	8.30	4.9	-3.4		
BKSB132	5.9	8.4	4.9	-3.5		
BKSB133	4.9	8.4	4.6	-3.8		
BKSB134	1.2	8.5	4.3	-4.2		
BKSB135	6.1	8.9	4	-4.9		
BKSB136	8.30	10.1	4	-6.1		
BKSB137	8.1	10.3	3.7	-6.6		
BKSB138	11.1	11.1	3.1	-8		
BKSB139	8.4	12.2	2.7	-9.5		
BKSB140	16.1	12.9	2.2	-10.7		
BKSB141	23.6	16.1	2.1	-14		
BKSB142	8.4	16.6	1.8	-14.8		
BKSB143	12.2	20.3	1.2	-19.1		
BKSB144	6.5	23.6	0.93	-22.67		
Sum of x_i	322.03					
Mean	7.31886364					
n=	44					
sum of x_i^2	3340.1149					
1/n=	0.02272727					
x_i-(sum xi)^2	103703.321					
d=	983.221243					
W=	0.87100033					
W(0.05,44)=	0.944					
W<W(0.5,45), the distribution is not normal						

Shapiro Wilk Chromium

smp_id	ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	-0.07257069	0.00526651	3.161246712	3.2338174	0.3872	1.2521341
BKSB102	0.182321557	0.03324115	3.010620886	2.82829933	0.2667	0.75430743
BKSB103	0.587786665	0.34549316	2.809402695	2.22161603	0.2323	0.5160814
BKSB104	0.741937345	0.55047102	2.778819272	2.03688193	0.2072	0.42204194
BKSB105	0.78845736	0.62166501	2.557227311	1.76876995	0.1868	0.33040623
BKSB106	0.993251773	0.98654908	2.501435952	1.50818418	0.1695	0.25563722
BKSB107	1.131402111	1.28007074	2.406945108	1.275543	0.1542	0.19668873
BKSB108	1.30833282	1.71173477	2.332143895	1.02381108	0.1405	0.14384546
BKSB109	1.386294361	1.92181206	2.312535424	0.92624106	0.1278	0.11837361
BKSB110	1.386294361	1.92181206	2.186051277	0.79975692	0.116	0.0927718
BKSB111	1.458615023	2.12755778	2.140066163	0.68145114	0.1049	0.07148422
BKSB112	1.526056303	2.32884784	2.128231706	0.6021754	0.0943	0.05678514
BKSB113	1.589235205	2.52566854	2.128231706	0.5389965	0.0842	0.04538351
BKSB114	1.589235205	2.52566854	2.116255515	0.52702031	0.0745	0.03926301
BKSB115	1.62924054	2.65442474	2.091864062	0.46262352	0.0651	0.03011679
BKSB116	1.62924054	2.65442474	2.041220329	0.41197979	0.056	0.02307087
BKSB117	1.62924054	2.65442474	2.028148247	0.39890771	0.0471	0.01878855
BKSB118	1.704748092	2.90616606	1.987874348	0.28312626	0.0383	0.01084374
BKSB119	1.740466175	3.02922251	1.974081026	0.23361485	0.0296	0.006915
BKSB120	1.774952351	3.15045585	1.871802177	0.09684983	0.0211	0.00204353
BKSB121	1.808288771	3.26990828	1.871802177	0.06351341	0.0126	0.00080027
BKSB122	1.824549292	3.32898012	1.840549633	0.01600034	0.0042	6.7201E-05
BKSB123	1.840549633	3.38762295	1.824549292	-0.0160003	0	0
BKSB124	1.871802177	3.50364339	1.808288771	-0.0635134		0
BKSB125	1.871802177	3.50364339	1.774952351	-0.0968498	Sum of b=	4.38784974
BKSB126	1.974081026	3.8969959	1.740466175	-0.2336149		
BKSB127	1.987874348	3.95164442	1.704748092	-0.2831263	W=	0.96653268
BKSB128	2.028148247	4.11338531	1.62924054	-0.3989077	W(0.05,45)	0.945
BKSB129	2.041220329	4.16658043	1.62924054	-0.4119798		
BKSB130	2.091864062	4.37589525	1.62924054	-0.4626235		
BKSB131	2.116255515	4.4785374	1.589235205	-0.5270203		
BKSB132	2.128231706	4.52937019	1.589235205	-0.5389965		
BKSB133	2.128231706	4.52937019	1.526056303	-0.6021754		
BKSB134	2.140066163	4.57988318	1.458615023	-0.6814511		
BKSB135	2.186051277	4.77882018	1.386294361	-0.7997569		
BKSB136	2.312535424	5.34782009	1.386294361	-0.9262411		
BKSB137	2.332143895	5.79338475	1.30833282	-1.0238111		
BKSB138	2.406945108	6.25718182	1.131402111	-1.275543		
BKSB139	2.501435952	6.53941152	0.993251773	-1.5081842		
BKSB140	2.557227311	7.72183655	0.78845736	-1.76877		
BKSB141	2.778819272	7.8927435	0.741937345	-2.0368819		
BKSB142	2.809402695	9.06383812	0.587786665	-2.221616		
BKSB143	3.010620886	9.99348077	0.182321557	-2.8282993		
BKSB144	3.161246712	#REF!	-0.072570693	-3.2338174		
Sum of x_i	78.61393132					
Mean	1.786680257					
n=	44					
sum of x_i^2	160.3778498					
1/n=	0.022727273					
x_i=(sum xi)^	6180.150197					
d=	19.91989073					
W=	**0.96653268**					
W(0.05,44)	**0.944**					
W>W(0.5,44), the distribution is lognormal						

Shapiro Wilk for Lead

smp_id	Lead	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	6	0.72	33.2	32.48	0.3872	12.57626
BKSB102	5	1.3	12.1	10.8	0.2667	2.88036
BKSB103	9.5	1.5	10.2	8.7	0.2323	2.02101
BKSB104	5.3	1.5	10.1	8.6	0.2072	1.78192
BKSB105	3.9	1.7	9.8	8.1	0.1868	1.51308
BKSB106	5	2.3	9.5	7.2	0.1695	1.2204
BKSB107	6.1	2.3	8.3	6	0.1542	0.9252
BKSB108	9.8	2.5	7.8	5.3	0.1405	0.74465
BKSB109	3.2	3.00	7.8	4.8	0.1278	0.61344
BKSB110	7.8	3.1	7.7	4.6	0.116	0.5336
BKSB111	5.3	3.2	7.5	4.3	0.1049	0.45107
BKSB112	1.5	3.6	6.6	3	0.0943	0.2829
BKSB113	6	3.7	6.3	2.6	0.0842	0.21892
BKSB114	7.7	3.8	6.1	2.3	0.0745	0.17135
BKSB115	5.1	3.8	6	2.2	0.0651	0.14322
BKSB116	5.6	3.9	6	2.1	0.056	0.1176
BKSB117	8.3	4	5.6	1.6	0.0471	0.07536
BKSB118	3.7	4.1	5.3	1.2	0.0383	0.04596
BKSB119	1.3	4.1	5.3	1.2	0.0296	0.03552
BKSB120	0.72	4.1	5.1	1	0.0211	0.0211
BKSB121	10.2	4.5	5	0.5	0.0126	0.0063
BKSB122	4.1	5	5	0	0.0042	0
BKSB123	3.8	5	5	0	0	0
BKSB124	4.5	5	4.5	-0.5		0
BKSB125	1.7	5.1	4.1	-1		
BKSB126	1.5	5.3	4.1	-1.2	Sum of b=	26.37922
BKSB127	3.8	5.3	4.1	-1.2		
BKSB128	7.5	5.6	4	-1.6	W=	0.647733
BKSB129	4.1	6	3.9	-2.1	W(0.05,45)	0.945
BKSB130	3.1	6	3.8	-2.2		
BKSB131	10.1	6.1	3.8	-2.3		
BKSB132	7.8	6.3	3.7	-2.6		
BKSB133	6.3	6.6	3.6	-3		
BKSB134	2.3	7.5	3.2	-4.3		
BKSB135	2.5	7.7	3.1	-4.6		
BKSB136	3.00	7.8	3.00	-4.8		
BKSB137	2.3	7.8	2.5	-5.3		
BKSB138	4.1	8.3	2.3	-6		
BKSB139	3.6	9.5	2.3	-7.2		
BKSB140	33.2	9.8	1.7	-8.1		
BKSB141	12.1	10.1	1.5	-8.6		
BKSB142	5	10.2	1.5	-8.7		
BKSB143	6.6	12.1	1.3	-10.8		
BKSB144	4	33.2	0.72	-32.48		
Sum of xi	254.02					
Mean	5.773182					
n=	44					
sum of xi^2	2540.808					
1/n=	0.022727					
xi=(sum xi)^2	64526.16					
d=	1074.305					
W=	0.647733					
W(0.05,44)=	0.944					
W<W(0.5,44), the distribution is not normal						

Shapiro Wilk for Lead

smp_id	ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	-0.328504067	0.107914922	3.502549876	3.83105394	0.3872	1.48338409
BKSB102	0.262364264	0.068835007	2.493205453	2.23084119	0.2667	0.59496534
BKSB103	0.405465108	0.164401954	2.32238772	1.91692261	0.2323	0.44530112
BKSB104	0.405465108	0.164401954	2.312535424	1.90707032	0.2072	0.39514497
BKSB105	0.530628251	0.281566341	2.282382386	1.75175413	0.1868	0.32722767
BKSB106	0.832909123	0.693737607	2.251291799	1.41838268	0.1695	0.24041586
BKSB107	0.832909123	0.693737607	2.116255515	1.28334639	0.1542	0.19789201
BKSB108	0.916290732	0.839588705	2.054123734	1.137833	0.1405	0.15986554
BKSB109	1.098612289	1.206948961	2.054123734	0.95551145	0.1278	0.12211436
BKSB110	1.131402111	1.280070738	2.041220329	0.90981822	0.116	0.10553891
BKSB111	1.16315081	1.352919806	2.014903021	0.85175221	0.1049	0.08934881
BKSB112	1.280933845	1.640791516	1.887069649	0.6061358	0.0943	0.05715861
BKSB113	1.30833282	1.711734767	1.840549633	0.53221681	0.0842	0.04481266
BKSB114	1.335001067	1.782227848	1.808288771	0.4732877	0.0745	0.03525993
BKSB115	1.335001067	1.782227848	1.791759469	0.4567584	0.0651	0.02973497
BKSB116	1.360976553	1.852257178	1.791759469	0.43078292	0.056	0.02412384
BKSB117	1.386294361	1.921812056	1.722766598	0.33647224	0.0471	0.01584784
BKSB118	1.410986974	1.99088424	1.667706821	0.25671985	0.0383	0.00983237
BKSB119	1.410986974	1.99088424	1.667706821	0.25671985	0.0296	0.00759891
BKSB120	1.410986974	1.99088424	1.62924054	0.21825357	0.0211	0.00460515
BKSB121	1.504077397	2.262248815	1.609437912	0.10536052	0.0126	0.00132754
BKSB122	1.609437912	2.590290394	1.609437912	0	0.0042	0
BKSB123	1.609437912	2.590290394	1.609437912	0		0
BKSB124	1.609437912	2.590290394	1.504077397	-0.10536052		0
BKSB125	1.62924054	2.654424736	1.410986974	-0.21825357		
BKSB126	1.667706821	2.781246039	1.410986974	-0.25671985	Sum of b=	4.39150052
BKSB127	1.667706821	2.781246039	1.410986974	-0.25671985		
BKSB128	1.722766598	2.96792475	1.386294361	-0.33647224	W(ln)=	0.97536815
BKSB129	1.791759469	3.210401996	1.360976553	-0.43078292		
BKSB130	1.791759469	3.210401996	1.335001067	-0.4567584	W(0.05,44)	0.944
BKSB131	1.808288771	3.26990828	1.335001067	-0.4732877		
BKSB132	1.840549633	3.387622953	1.30833282	-0.53221681		
BKSB133	1.887069649	3.56103186	1.280933845	-0.6061358		
BKSB134	2.014903021	4.059834182	1.16315081	-0.85175221		
BKSB135	2.041220329	4.166580431	1.131402111	-0.90981822		
BKSB136	2.054123734	4.219424313	1.098612289	-0.95551145		
BKSB137	2.054123734	4.219424313	0.916290732	-1.137833		
BKSB138	2.116255515	4.478537404	0.832909123	-1.28334639		
BKSB139	2.251291799	5.068314762	0.832909123	-1.41838268		
BKSB140	2.282382386	5.209269354	0.530628251	-1.75175413		
BKSB141	2.312535424	5.347820087	0.405465108	-1.90707032		
BKSB142	2.32238772	5.393484723	0.405465108	-1.91692261		
BKSB143	2.493205453	6.216073429	0.262364264	-2.23084119		
BKSB144	3.502549876	12.26785563	-0.328504067	-3.83105394		
Sum of xi	67.07441138					
Mean	1.52441844					
n=	44					
sum of xi^2	122.0217748					
1/n=	0.022727273					
xi=(sum xi)^2	4498.976662					
d=	19.77230523					
W(ln)=	0.975368151					
W(0.05,44)=	0.944					
W>W(0.5,44), the distribution is lognormal						

Mean Comparison Statistical Results for Cadmium Sediment Samples Collected at FH-028

COMPOUND	N	R	U	MEAN	SD	Z
CadmiumA	11	547.00	3.00	242.00	47.53	-5.03
CadmiumB	44	993.00				

Mean Comparison Statistical Ranking Results for Cadmium Sediment Samples Collected at FH-028

COMPOUND	RESULT	RANK	NEWRANK
CadmiumB	0.0200	1.0	3.00
CadmiumB	0.0200	2.0	3.00
CadmiumB	0.0200	3.0	3.00
CadmiumB	0.0200	4.0	3.00
CadmiumB	0.0200	5.0	3.00
CadmiumB	0.0250	6.0	7.00
CadmiumB	0.0250	7.0	7.00
CadmiumB	0.0250	8.0	7.00
CadmiumB	0.0500	9.0	9.50
CadmiumB	0.0500	10.0	9.50
CadmiumB	0.0600	11.0	13.0
CadmiumB	0.0600	12.0	13.0
CadmiumB	0.0600	13.0	13.0
CadmiumB	0.0600	14.0	13.0
CadmiumB	0.0600	15.0	13.0
CadmiumB	0.0700	16.0	17.0
CadmiumB	0.0700	17.0	17.0
CadmiumB	0.0700	18.0	17.0
CadmiumB	0.0800	19.0	19.5
CadmiumB	0.0800	20.0	19.5
CadmiumB	0.1100	21.0	22.5
CadmiumB	0.1100	22.0	22.5
CadmiumB	0.1100	23.0	22.5
CadmiumB	0.1100	24.0	22.5
CadmiumB	0.1200	25.0	25.0
CadmiumB	0.1500	26.0	26.5
CadmiumB	0.1500	27.0	26.5
CadmiumB	0.1600	28.0	28.0
CadmiumB	0.1700	29.0	29.0
CadmiumB	0.1800	30.0	31.0
CadmiumB	0.1800	31.0	31.0
CadmiumB	0.1800	32.0	31.0
CadmiumB	0.1900	33.0	33.0
CadmiumB	0.2000	34.0	36.0
CadmiumB	0.2000	35.0	36.0
CadmiumB	0.2000	36.0	36.0
CadmiumB	0.2000	37.0	36.0
CadmiumB	0.2000	38.0	36.0
CadmiumB	0.2100	39.0	39.0
CadmiumB	0.2700	40.0	40.0
CadmiumB	0.2900	41.0	41.0
CadmiumB	0.3500	42.0	42.0
CadmiumB	0.4500	43.0	43.0
CadmiumA	0.6200	44.0	44.0
CadmiumA	0.6500	45.0	45.0
CadmiumA	0.7600	46.0	46.0
CadmiumB	0.7900	47.0	47.0
CadmiumA	0.9400	48.0	48.0
CadmiumA	0.9500	49.0	49.0
CadmiumA	1.3000	50.0	50.0
CadmiumA	1.4000	51.0	51.0
CadmiumA	1.9000	52.0	52.0
CadmiumA	2.2000	53.0	53.0
CadmiumA	3.9000	54.0	54.0
CadmiumA	10.4000	55.0	55.0

Mean Comparison Statistical Results for Lead Sediment Samples Collected at FH-028

COMPOUND	N	R	U	MEAN	SD	Z
LeadA	11	522.00	28.00	242.00	47.53	-4.50
LeadB	44	1018.00				

Mean Comparison Statistical Ranking Results for Lead Sediment Samples Collected at FH-028

COMPOUND	RESULT	RANK	NEWRANK
LeadB	0.7200	1.0	1.00
LeadB	1.3000	2.0	2.00
LeadB	1.5000	3.0	3.50
LeadB	1.5000	4.0	3.50
LeadB	1.7000	5.0	5.00
LeadB	2.3000	6.0	6.50
LeadB	2.3000	7.0	6.50
LeadB	2.5000	8.0	8.00
LeadB	3.0000	9.0	9.00
LeadB	3.1000	10.0	10.0
LeadB	3.2000	11.0	11.0
LeadB	3.6000	12.0	12.0
LeadB	3.7000	13.0	13.0
LeadB	3.8000	14.0	14.5
LeadB	3.8000	15.0	14.5
LeadB	3.9000	16.0	16.0
LeadB	4.0000	17.0	17.0
LeadB	4.1000	18.0	19.0
LeadB	4.1000	19.0	19.0
LeadB	4.1000	20.0	19.0
LeadB	4.5000	21.0	21.0
LeadB	5.0000	22.0	23.0
LeadB	5.0000	23.0	23.0
LeadB	5.0000	24.0	23.0
LeadB	5.1000	25.0	25.0
LeadB	5.3000	26.0	26.5
LeadB	5.3000	27.0	26.5
LeadB	5.6000	28.0	28.0
LeadA	5.8000	29.0	29.0
LeadB	6.0000	30.0	30.5
LeadB	6.0000	31.0	30.5
LeadB	6.1000	32.0	32.0
LeadB	6.3000	33.0	33.0
LeadB	6.6000	34.0	34.0
LeadB	7.5000	35.0	35.0
LeadB	7.7000	36.0	36.0
LeadB	7.8000	37.0	37.5
LeadB	7.8000	38.0	37.5
LeadB	8.3000	39.0	39.0
LeadB	9.5000	40.0	40.0
LeadB	9.8000	41.0	41.0
LeadB	10.1000	42.0	42.0
LeadB	10.2000	43.0	43.0
LeadA	10.7000	44.0	44.0
LeadA	12.0000	45.0	45.0
LeadB	12.1000	46.0	46.0
LeadA	12.7000	47.0	47.0
LeadA	15.0000	48.0	48.0
LeadA	18.6000	49.0	49.0
LeadA	19.3000	50.0	50.0
LeadA	21.1000	51.0	51.0
LeadA	22.9000	52.0	52.0
LeadA	24.1000	53.0	53.0
LeadA	25.2000	54.0	54.0
LeadB	33.2000	55.0	55.0

Mean Comparison Statistical Results for Arsenic Soil Samples Collected at FH-028

COMPOUND	N	R	U	MEAN	SD	Z
ArsenicA	12	379.50	214.50	258.00	49.07	-0.89
ArsenicB	43	1160.50				

Mean Comparison Statistical Ranking Results for Arsenic Soil Samples Collected at FH-028

COMPOUND	RESULT	RANK	NEWRANK
ArsenicB	0.4400	1.0	1.00
ArsenicB	0.6600	2.0	2.00
ArsenicB	1.0000	3.0	3.00
ArsenicB	1.6000	4.0	4.00
ArsenicB	1.9000	5.0	5.00
ArsenicB	2.0000	6.0	6.00
ArsenicB	2.5000	7.0	7.00
ArsenicB	2.6000	8.0	8.50
ArsenicB	2.6000	9.0	8.50
ArsenicB	2.7000	10.0	10.0
ArsenicB	2.9000	11.0	11.0
ArsenicA	3.0000	12.0	12.5
ArsenicB	3.0000	13.0	12.5
ArsenicB	3.2000	14.0	15.0
ArsenicB	3.2000	15.0	15.0
ArsenicB	3.2000	16.0	15.0
ArsenicA	3.4000	17.0	17.0
ArsenicA	3.5000	18.0	19.0
ArsenicA	3.5000	19.0	19.0
ArsenicB	3.5000	20.0	19.0
ArsenicB	3.6000	21.0	21.0
ArsenicB	3.7000	22.0	22.0
ArsenicB	3.8000	23.0	24.0
ArsenicB	3.8000	24.0	24.0
ArsenicB	3.8000	25.0	24.0
ArsenicA	4.0000	26.0	26.0
ArsenicB	4.1000	27.0	27.0
ArsenicB	4.2000	28.0	28.0
ArsenicB	4.3000	29.0	29.5
ArsenicB	4.3000	30.0	29.5
ArsenicA	4.4000	31.0	32.0
ArsenicB	4.4000	32.0	32.0
ArsenicB	4.4000	33.0	32.0
ArsenicA	4.5000	34.0	34.0
ArsenicA	4.6000	35.0	35.0
ArsenicA	4.8000	36.0	37.0
ArsenicB	4.8000	37.0	37.0
ArsenicB	4.8000	38.0	37.0
ArsenicB	5.2000	39.0	39.5
ArsenicB	5.2000	40.0	39.5
ArsenicB	5.3000	41.0	41.5
ArsenicB	5.3000	42.0	41.5
ArsenicB	5.6000	43.0	43.0
ArsenicB	5.7000	44.0	44.0
ArsenicA	6.0000	45.0	46.0
ArsenicB	6.0000	46.0	46.0
ArsenicB	6.0000	47.0	46.0
ArsenicA	6.1000	48.0	48.0
ArsenicB	6.2000	49.0	49.0
ArsenicB	7.6000	50.0	50.0
ArsenicB	8.2000	51.0	51.0
ArsenicB	9.1000	52.0	52.0
ArsenicB	9.2000	53.0	53.0
ArsenicA	10.3000	54.0	54.0
ArsenicB	11.6000	55.0	55.0

Mean Comparison Statistical Results for Cadmium Soil Samples Collected at FH-028

COMPOUND	N	R	U	MEAN	SD	Z
CadmiumA	12	590.00	16.00	264.00	50.08	-4.95
CadmiumB	44	1006.00				

Mean Comparison Statistical Ranking Results for Cadmium Soil Samples Collected at FH-028

COMPOUND	RESULT	RANK	NEWRANK
CadmiumB	0.0200	1.0	3.00
CadmiumB	0.0200	2.0	3.00
CadmiumB	0.0200	3.0	3.00
CadmiumB	0.0200	4.0	3.00
CadmiumB	0.0200	5.0	3.00
CadmiumB	0.0250	6.0	7.00
CadmiumB	0.0250	7.0	7.00
CadmiumB	0.0250	8.0	7.00
CadmiumB	0.0500	9.0	9.50
CadmiumB	0.0500	10.0	9.50
CadmiumB	0.0600	11.0	13.0
CadmiumB	0.0600	12.0	13.0
CadmiumB	0.0600	13.0	13.0
CadmiumB	0.0600	14.0	13.0
CadmiumB	0.0600	15.0	13.0
CadmiumB	0.0700	16.0	17.0
CadmiumB	0.0700	17.0	17.0
CadmiumB	0.0700	18.0	17.0
CadmiumB	0.0800	19.0	19.5
CadmiumB	0.0800	20.0	19.5
CadmiumB	0.1100	21.0	22.5
CadmiumB	0.1100	22.0	22.5
CadmiumB	0.1100	23.0	22.5
CadmiumB	0.1100	24.0	22.5
CadmiumB	0.1200	25.0	25.0
CadmiumB	0.1500	26.0	26.5
CadmiumB	0.1500	27.0	26.5
CadmiumB	0.1600	28.0	28.0
CadmiumB	0.1700	29.0	29.0
CadmiumB	0.1800	30.0	31.0
CadmiumB	0.1800	31.0	31.0
CadmiumB	0.1800	32.0	31.0
CadmiumB	0.1900	33.0	33.0
CadmiumB	0.2000	34.0	36.0
CadmiumB	0.2000	35.0	36.0
CadmiumB	0.2000	36.0	36.0
CadmiumB	0.2000	37.0	36.0
CadmiumB	0.2000	38.0	36.0
CadmiumA	0.2100	39.0	39.5
CadmiumB	0.2100	40.0	39.5
CadmiumA	0.2200	41.0	41.0
CadmiumB	0.2700	42.0	42.0
CadmiumB	0.2900	43.0	43.0
CadmiumB	0.3500	44.0	44.0
CadmiumA	0.4000	45.0	45.0
CadmiumA	0.4500	46.0	46.5
CadmiumB	0.4500	47.0	46.5
CadmiumA	0.6300	48.0	48.0
CadmiumA	0.7300	49.0	49.0
CadmiumB	0.7900	50.0	50.0
CadmiumA	1.6000	51.0	51.0
CadmiumA	2.8000	52.0	52.0
CadmiumA	2.9000	53.0	53.0
CadmiumA	3.4000	54.0	54.0
CadmiumA	5.8000	55.0	55.0
CadmiumA	12.1000	56.0	56.0

Mean Comparison Statistical Results for Chromium Soil Samples Collected at FH-028

COMPOUND	N	R	U	MEAN	SD	Z
ChromiumA	12	491.00	115.00	264.00	50.08	-2.98
ChromiumB	44	1105.00				

Mean Comparison Statistical Ranking Results for Chromium Soil Samples Collected at FH-028

COMPOUND	RESULT	RANK	NEWRANK
ChromiumB	0.9300	1.0	1.00
ChromiumB	1.2000	2.0	2.00
ChromiumB	1.8000	3.0	3.00
ChromiumB	2.1000	4.0	4.00
ChromiumB	2.2000	5.0	5.00
ChromiumB	2.7000	6.0	6.00
ChromiumB	3.1000	7.0	7.00
ChromiumB	3.7000	8.0	8.00
ChromiumB	4.0000	9.0	9.50
ChromiumB	4.0000	10.0	9.50
ChromiumB	4.3000	11.0	11.0
ChromiumB	4.6000	12.0	12.0
ChromiumB	4.9000	13.0	13.5
ChromiumB	4.9000	14.0	13.5
ChromiumB	5.1000	15.0	16.0
ChromiumB	5.1000	16.0	16.0
ChromiumB	5.1000	17.0	16.0
ChromiumB	5.5000	18.0	18.0
ChromiumB	5.7000	19.0	19.0
ChromiumB	5.9000	20.0	20.0
ChromiumB	6.1000	21.0	21.0
ChromiumA	6.2000	22.0	22.5
ChromiumB	6.2000	23.0	22.5
ChromiumB	6.3000	24.0	24.0
ChromiumB	6.5000	25.0	25.5
ChromiumB	6.5000	26.0	25.5
ChromiumA	7.1000	27.0	27.5
ChromiumA	7.1000	28.0	27.5
ChromiumB	7.2000	29.0	29.0
ChromiumB	7.3000	30.0	30.0
ChromiumB	7.6000	31.0	31.0
ChromiumB	7.7000	32.0	32.0
ChromiumA	7.8000	33.0	33.0
ChromiumB	8.1000	34.0	34.0
ChromiumB	8.3000	35.0	35.0
ChromiumB	8.4000	36.0	36.5
ChromiumB	8.4000	37.0	36.5
ChromiumB	8.5000	38.0	38.0
ChromiumB	8.9000	39.0	39.0
ChromiumB	10.1000	40.0	40.0
ChromiumB	10.3000	41.0	41.0
ChromiumA	10.9000	42.0	42.0
ChromiumA	11.0000	43.0	43.0
ChromiumA	11.1000	44.0	44.5
ChromiumB	11.1000	45.0	44.5
ChromiumA	11.2000	46.0	46.0
ChromiumA	11.3000	47.0	47.0
ChromiumB	12.2000	48.0	48.0
ChromiumA	12.5000	49.0	49.0
ChromiumB	12.9000	50.0	50.0
ChromiumB	16.1000	51.0	51.0
ChromiumB	16.6000	52.0	52.0
ChromiumA	17.9000	53.0	53.0
ChromiumB	20.3000	54.0	54.0
ChromiumB	23.6000	55.0	55.0
ChromiumA	138.0000	56.0	56.0

Mean Comparison Statistical Results for Lead Soil Samples Collected at FH-028

COMPOUND	N	R	U	MEAN	SD	Z
LeadA	12	523.00	83.00	264.00	50.08	-3.61
LeadB	44	1073.00				

Mean Comparison Statistical Ranking Results for Lead Soil Samples Collected at FH-028

COMPOUND	RESULT	RANK	NEWRANK
LeadB	0.7200	1.0	1.00
LeadB	1.3000	2.0	2.00
LeadB	1.5000	3.0	3.50
LeadB	1.5000	4.0	3.50
LeadB	1.7000	5.0	5.00
LeadB	2.3000	6.0	6.50
LeadB	2.3000	7.0	6.50
LeadB	2.5000	8.0	8.00
LeadB	3.0000	9.0	9.00
LeadB	3.1000	10.0	10.0
LeadB	3.2000	11.0	11.0
LeadA	3.4000	12.0	12.0
LeadB	3.6000	13.0	13.0
LeadB	3.7000	14.0	14.0
LeadB	3.8000	15.0	15.5
LeadB	3.8000	16.0	15.5
LeadB	3.9000	17.0	17.0
LeadB	4.0000	18.0	18.0
LeadB	4.1000	19.0	20.0
LeadB	4.1000	20.0	20.0
LeadB	4.1000	21.0	20.0
LeadB	4.5000	22.0	22.0
LeadB	5.0000	23.0	24.0
LeadB	5.0000	24.0	24.0
LeadB	5.0000	25.0	24.0
LeadB	5.1000	26.0	26.0
LeadB	5.3000	27.0	27.5
LeadB	5.3000	28.0	27.5
LeadB	5.6000	29.0	29.0
LeadB	6.0000	30.0	30.5
LeadB	6.0000	31.0	30.5
LeadB	6.1000	32.0	32.0
LeadA	6.3000	33.0	33.5
LeadB	6.3000	34.0	33.5
LeadB	6.6000	35.0	35.0
LeadA	7.0000	36.0	36.0
LeadA	7.2000	37.0	37.0
LeadB	7.5000	38.0	38.0
LeadA	7.7000	39.0	39.5
LeadB	7.7000	40.0	39.5
LeadB	7.8000	41.0	41.5
LeadB	7.8000	42.0	41.5
LeadB	8.3000	43.0	43.0
LeadB	9.5000	44.0	44.0
LeadB	9.8000	45.0	45.0
LeadB	10.1000	46.0	46.0
LeadB	10.2000	47.0	47.0
LeadA	11.2000	48.0	48.0
LeadB	12.1000	49.0	49.0

COMPOUND	RESULT	RANK	NEWRANK
LeadA	17.8000	50.0	50.0
LeadA	22.5000	51.0	51.0
LeadA	22.8000	52.0	52.0
LeadA	26.7000	53.0	53.0
LeadB	33.2000	54.0	54.0
LeadA	43.3000	55.0	55.0
LeadA	530.0000	56.0	56.0

APPENDIX E

FH-028 Summary of Screening Results

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB101	28SB101	0.0-0.5	Arsenic	3.5	0.4	mg/kg	Soil Background	9.2	mg/kg
			Barium	40.2 J	0.077	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.73	0.064	mg/kg	Soil Background	0.67	mg/kg
			Chromium	7.8	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	11.2 J	0.23	mg/kg	Soil Background	19	mg/kg
			Benzo(a)anthracene	2.8	0.42	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	2.1	0.42	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	2.8	0.42	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(g,h,i)perylene	1	0.42	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Benzo(k)fluoranthene	2	0.42	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Bis(2-ethylhexyl)phthalate	5.1	0.84	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Chrysene	3.3	0.42	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	3.92	mg/kg
			Dibenz(a,h)anthracene	0.44	0.42	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Fluoranthene	5.3	0.84	mg/kg	30 TAC 335 Industrial Soil GWP	409	mg/kg
			Indeno(1,2,3-cd)pyrene	1.3	0.42	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Phenanthrene	0.92	0.42	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Pyrene	4.9	0.84	mg/kg	30 TAC 335 Industrial Soil GWP	310	mg/kg
	28SB102	1.5-1.8	Methylene Chloride	0.01	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	0.5	mg/kg
	28SB113	1.3-1.5	Arsenic	3.5 J	0.26	mg/kg	Soil Background	9.2	mg/kg
			Barium	43.2	0.037	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.45	0.037	mg/kg	Soil Background	0.67	mg/kg
			Chromium	7.1 J	0.12	mg/kg	Soil Background	24.9	mg/kg
			Lead	6.3 J	0.11	mg/kg	Soil Background	19	mg/kg
			Mercury	0.33	0.021	mg/kg	30 TAC 335 Industrial Soil GWP	0.2	mg/kg
			Silver	0.24	0.12	mg/kg	30 TAC 335 Industrial Soil GWP	51.1	mg/kg
			Benzo(a)anthracene	1.1	0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	1.3	0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	2	0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB101	28SB113	1.3-1.5	Benzo(g,h,i)perylene	0.84	0.39	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Benzo(k)fluoranthene	1.3	0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Bis(2-ethylhexyl)phthalate	0.58	0.39	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Chrysene	1.6	0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	3.92	mg/kg
			Fluoranthene	2	0.39	mg/kg	30 TAC 335 Industrial Soil GWP	409	mg/kg
			Indeno(1,2,3-cd)pyrene	0.94	0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Phenanthrene	1.1	0.39	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Pyrene	2.1	0.39	mg/kg	30 TAC 335 Industrial Soil GWP	310	mg/kg
SB102	28SB103	0.0-1.0	Arsenic	4.8	0.44	mg/kg	Soil Background	9.2	mg/kg
			Barium	78.9 J	0.085	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	5.8	0.071	mg/kg	Soil Background	0.67	mg/kg
			Chromium	17.9	0.099	mg/kg	Soil Background	24.9	mg/kg
			Lead	43.3 J	0.26	mg/kg	Soil Background	19	mg/kg
			Benzo(a)anthracene	3.1	0.47	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	2.8	0.47	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	4.6	0.47	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(g,h,i)perylene	1.6	0.47	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Benzo(k)fluoranthene	3	0.47	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Bis(2-ethylhexyl)phthalate	6.2	0.94	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Chrysene	4.5	0.47	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	3.92	mg/kg
			Dibenz(a,h)anthracene	0.66	0.47	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Fluoranthene	4.5	0.47	mg/kg	30 TAC 335 Industrial Soil GWP	409	mg/kg
			Indeno(1,2,3-cd)pyrene	2	0.47	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Phenanthrene	0.78	0.47	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Pyrene	4.3	0.47	mg/kg	30 TAC 335 Industrial Soil GWP	310	mg/kg
	28SB104	2.3-2.5	Arsenic	6	0.35	mg/kg	Soil Background	9.2	mg/kg
			Barium	30.2 J	0.068	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.4	0.057	mg/kg	Soil Background	0.67	mg/kg
			Chromium	6.2 J	0.079	mg/kg	Soil Background	24.9	mg/kg
			Lead	3.4 J	0.2	mg/kg	Soil Background	19	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB102	28SB104	2.3-2.5	Chlorobenzene	0.013	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	10	mg/kg
SB103	28SB105	0.0-1.0	Arsenic	4	0.4	mg/kg	Soil Background	9.2	mg/kg
			Barium	70.6 J	0.078	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	3.4	0.065	mg/kg	Soil Background	0.67	mg/kg
			Chromium	11.1 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	26.7 J	0.23	mg/kg	Soil Background	19	mg/kg
	28SB106	2.3-2.5	Arsenic	4.4	0.38	mg/kg	Soil Background	9.2	mg/kg
			Barium	43.3 J	0.074	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.63	0.062	mg/kg	Soil Background	0.67	mg/kg
			Chromium	7.1 J	0.086	mg/kg	Soil Background	24.9	mg/kg
			Lead	7 J	0.22	mg/kg	Soil Background	19	mg/kg
SB104	28SB108	0.0-1.0	Arsenic	6.1	0.39	mg/kg	Soil Background	9.2	mg/kg
			Barium	48 J	0.075	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	2.9	0.063	mg/kg	Soil Background	0.67	mg/kg
			Chromium	11 J	0.088	mg/kg	Soil Background	24.9	mg/kg
			Lead	17.8 J	0.22	mg/kg	Soil Background	19	mg/kg
			Benzo(a)anthracene	0.46	0.4	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(a)pyrene	0.59	0.4	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.00392	mg/kg
			Benzo(b)fluoranthene	0.84	0.4	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Benzo(k)fluoranthene	0.46	0.4	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.392	mg/kg
			Chrysene	0.75	0.4	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	3.92	mg/kg
			Fluoranthene	0.9	0.4	mg/kg	30 TAC 335 Industrial Soil GWP	409	mg/kg
			Indeno(1,2,3-cd)pyrene	0.44	0.4	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	0.0392	mg/kg
			Phenanthrene	0.43	0.4	mg/kg	30 TAC 335 Industrial Soil GWP	0.0	mg/kg
			Pyrene	0.77	0.4	mg/kg	30 TAC 335 Industrial Soil GWP	310	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB104	28SB109	2.3-2.5	Arsenic	3.4	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	45.9 J	0.072	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	12.1	0.06	mg/kg	Soil Background	0.67	mg/kg
			Chromium	10.9 J	0.084	mg/kg	Soil Background	24.9	mg/kg
			Lead	22.5 J	0.21	mg/kg	Soil Background	19	mg/kg
SB105	28SB107	0.0-1.0	Arsenic	4.5	0.41	mg/kg	Soil Background	9.2	mg/kg
			Barium	56.9 J	0.079	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	2.8	0.066	mg/kg	Soil Background	0.67	mg/kg
			Chromium	11.3 J	0.092	mg/kg	Soil Background	24.9	mg/kg
			Lead	22.8 J	0.24	mg/kg	Soil Background	19	mg/kg
	28SB110	2.0-2.3	Arsenic	3	0.36	mg/kg	Soil Background	9.2	mg/kg
			Barium	42 J	0.07	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	1.6	0.058	mg/kg	Soil Background	0.67	mg/kg
			Chromium	138 J	0.081	mg/kg	Soil Background	24.9	mg/kg
			Lead	530 J	0.21	mg/kg	Soil Background	19	mg/kg
SB106	28SB111	0.0-0.8	Arsenic	4.6	0.38	mg/kg	Soil Background	9.2	mg/kg
			Barium	96.1	0.074	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.21	0.062	mg/kg	Soil Background	0.67	mg/kg
			Chromium	12.5	0.086	mg/kg	Soil Background	24.9	mg/kg
			Lead	7.7	0.22	mg/kg	Soil Background	19	mg/kg
			Acetone	0.61 J	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
	28SB112	1.0-1.5	Arsenic	10.3	0.39	mg/kg	Soil Background	9.2	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB106	28SB112	1.0-1.5	Barium	41.1	0.075	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.22	0.063	mg/kg	Soil Background	0.67	mg/kg
			Chromium	11.2	0.088	mg/kg	Soil Background	24.9	mg/kg
			Lead	7.2	0.23	mg/kg	Soil Background	19	mg/kg
			Acetone	0.47 J	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
SW101	28SW101	--	Barium	0.276	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0086	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Chromium	0.0148	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			Lead	0.086	0.0017	mg/l	30 TAC 335 Groundwater	0.015	mg/l
			Bis(2-ethylhexyl)phthalate	0.062	0.01	mg/l	30 TAC 335 Groundwater	0.00608	mg/l
			1,2,4-trimethylbenzene	0.034	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			1,3,5-trimethylbenzene	0.017	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			m,p-Xylene	0.018	0.005	mg/l	30 TAC 335 Groundwater	10	mg/l
			o-Xylene	0.009	0.005	mg/l	30 TAC 335 Groundwater	10.0	mg/l
SW102	28SW102	--	Barium	0.0675	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0014	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Chromium	0.0127	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			1,2,4-trimethylbenzene	0.01	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			4-Methyl-2-pentanone	0.008	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	2.92	mg/l
SW103	28SW103	--	Barium	0.0714	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0014	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SW103	28SW103	--	2-Methylnaphthalene	0.011	0.01	mg/l	30 TAC 335 Groundwater Calc. MSC	0.73	mg/l
			1,2,4-trimethylbenzene	0.076	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			1,3,5-trimethylbenzene	0.019	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			4-Methyl-2-pentanone	0.008	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	2.92	mg/l
			m,p-Xylene	0.03	0.005	mg/l	30 TAC 335 Groundwater	10	mg/l
			o-Xylene	0.014	0.005	mg/l	30 TAC 335 Groundwater	10.0	mg/l
SW104	28SW104	--	Barium	0.068	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0052	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Lead	0.0045	0.0017	mg/l	30 TAC 335 Groundwater	0.015	mg/l
SW105	28SW105	--	Barium	0.0735	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.006	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			2-Methylnaphthalene	0.013	0.01	mg/l	30 TAC 335 Groundwater Calc. MSC	0.73	mg/l
			Naphthalene	0.016	0.01	mg/l	30 TAC 335 Groundwater	1.46	mg/l
			1,2,4-trimethylbenzene	0.042	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			1,3,5-trimethylbenzene	0.008	0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			Acetone	0.01	0.005	mg/l	30 TAC 335 Groundwater	3.65	mg/l
			m,p-Xylene	0.025	0.005	mg/l	30 TAC 335 Groundwater	10	mg/l
			o-Xylene	0.013	0.005	mg/l	30 TAC 335 Groundwater	10.0	mg/l
SW108	28SW108	--	Arsenic	0.0042	0.0025	mg/l	30 TAC 335 Groundwater	0.05	mg/l
			Barium	0.264	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0129	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Chromium	0.0093	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result		PQL	Units	Screening Criteria	Screening Value	Units
SW108	28SW108	--	Lead	0.009	J	0.0017	mg/l	30 TAC 335 Groundwater	0.015	mg/l
			Phenol	0.012		0.01	mg/l	30 TAC 335 Groundwater	21.9	mg/l
			4-Methyl-2-pentanone	0.006		0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	2.92	mg/l
SW109	28SD109	--	Arsenic	3.4		0.39	mg/kg	Soil Background	9.2	mg/kg
			Barium	46.1		0.1	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	3.9	J	0.05	mg/kg	Soil Background	0.67	mg/kg
			Chromium	8	J	0.1	mg/kg	Soil Background	24.9	mg/kg
			Lead	22.9	J	0.17	mg/kg	Soil Background	19	mg/kg
			Bis(2-ethylhexyl)phthalate	2.6		0.39	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Pyrene	0.4		0.39	mg/kg	30 TAC 335 Industrial Soil GWP	310	mg/kg
			1,2,4-trimethylbenzene	0.035		0.006	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	511	mg/kg
	28SW109	--	Barium	0.109		0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0031	B	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Chromium	0.0057	B	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l
SW110	28SD110	--	Arsenic	3.9		0.49	mg/kg	Soil Background	9.2	mg/kg
			Barium	64.3		0.12	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	1.9	J	0.06	mg/kg	Soil Background	0.67	mg/kg
			Chromium	10.4	J	0.12	mg/kg	Soil Background	24.9	mg/kg
			Lead	18.6	J	0.21	mg/kg	Soil Background	19	mg/kg
			2-Butanone	0.04		0.007	mg/kg	30 TAC 335 Industrial Soil GWP	511	mg/kg
			Acetone	0.32	J	0.007	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
			Toluene	0.011		0.007	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SW110	28SW110	--	Barium	0.127	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Chromium	0.0186	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			2-Butanone	0.014	0.005	mg/l	30 TAC 335 Groundwater	1.83	mg/l
SW111	28SD111	--	Arsenic	4.1 *	0.34	mg/kg	Soil Background	9.2	mg/kg
			Barium	95.1	0.04	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.94	0.07	mg/kg	Soil Background	0.67	mg/kg
			Chromium	8.9	0.11	mg/kg	Soil Background	24.9	mg/kg
			Lead	12	0.23	mg/kg	Soil Background	19	mg/kg
			Bis(2-ethylhexyl)phthalate	0.66	0.45	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			2-Butanone	0.008	0.007	mg/kg	30 TAC 335 Industrial Soil GWP	511	mg/kg
			Acetone	0.099	0.007	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
	28SW111	--	Barium	0.0427	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
SW112	28SD112	--	Arsenic	6.9	0.49	mg/kg	Soil Background	9.2	mg/kg
			Barium	112	0.12	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.65 J	0.06	mg/kg	Soil Background	0.67	mg/kg
			Chromium	16.3 J	0.12	mg/kg	Soil Background	24.9	mg/kg
			Lead	15 J	0.21	mg/kg	Soil Background	19	mg/kg
			Acetone	0.093	0.007	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
			Toluene	0.012	0.007	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SW112	28SW112	--	Arsenic	0.0026 B	0.0025	mg/l	30 TAC 335 Groundwater	0.05	mg/l
			Barium	0.0526	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0006 B	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Chromium	0.0067 B	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			Lead	0.0037	0.0017	mg/l	30 TAC 335 Groundwater	0.015	mg/l
			Mercury	0.0005	0.0001	mg/l	30 TAC 335 Groundwater	0.002	mg/l
SW113	28SD113	--	Arsenic	5.5	0.39	mg/kg	Soil Background	9.2	mg/kg
			Barium	70.2	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.76 J	0.05	mg/kg	Soil Background	0.67	mg/kg
			Chromium	10.4 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	10.7 J	0.17	mg/kg	Soil Background	19	mg/kg
SW114	28SD114	--	Arsenic	6.4	0.48	mg/kg	Soil Background	9.2	mg/kg
			Barium	94	0.12	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.95 J	0.06	mg/kg	Soil Background	0.67	mg/kg
			Chromium	12.6 J	0.12	mg/kg	Soil Background	24.9	mg/kg
			Lead	21.1 J	0.2	mg/kg	Soil Background	19	mg/kg
			Selenium	0.54	0.43	mg/kg	30 TAC 335 Industrial Soil GWP	5.0	mg/kg
			Toluene	0.029	0.007	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg
	28SW114	--	Barium	0.0385	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Chromium	0.0011 B	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l
SW115	28SW115	--	Arsenic	0.0032 B	0.0025	mg/l	30 TAC 335 Groundwater	0.05	mg/l

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result		PQL	Units	Screening Criteria	Screening Value	Units
SW115	28SW115	--	Barium	0.0403		0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Cadmium	0.0037	B	0.0005	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Chromium	0.0024	B	0.0008	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			Lead	0.0033		0.0017	mg/l	30 TAC 335 Groundwater	0.015	mg/l
			1,2,4-trimethylbenzene	0.072		0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			1,3,5-trimethylbenzene	0.016		0.005	mg/l	30 TAC 335 Groundwater Calc. MSC	1.83	mg/l
			m,p-Xylene	0.024		0.005	mg/l	30 TAC 335 Groundwater	10	mg/l
			o-Xylene	0.011		0.005	mg/l	30 TAC 335 Groundwater	10.0	mg/l
SW116	28SD116	--	Arsenic	4		0.36	mg/kg	Soil Background	9.2	mg/kg
			Barium	65.2		0.069	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	1.4		0.057	mg/kg	Soil Background	0.67	mg/kg
			Chromium	10.3		0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	24.1		0.21	mg/kg	Soil Background	19	mg/kg
			Selenium	1.8	J	1.2	mg/kg	30 TAC 335 Industrial Soil GWP	5.0	mg/kg
			1,2,3-Trichlorobenzene	0.011		0.006	mg/kg	30 TAC 335 Industrial Soil GWP	7	mg/kg
SW117	28SD117	--	Arsenic	8.8		0.42	mg/kg	Soil Background	9.2	mg/kg
			Barium	55.9		0.081	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.62		0.067	mg/kg	Soil Background	0.67	mg/kg
			Chromium	9.1		0.094	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.8		0.24	mg/kg	Soil Background	19	mg/kg
SW118	28SD118	--	Arsenic	6		0.52	mg/kg	Soil Background	9.2	mg/kg
			Barium	110		0.1	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	2.2		0.083	mg/kg	Soil Background	0.67	mg/kg
			Chromium	13.9		0.12	mg/kg	Soil Background	24.9	mg/kg
			Lead	19.3		0.3	mg/kg	Soil Background	19	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result		PQL	Units	Screening Criteria	Screening Value	Units
SW118	28SD118	--	4-Methylphenol	1.3		0.55	mg/kg	30 TAC 335 Industrial Soil GWP	511	mg/kg
			Bis(2-ethylhexyl)phthalate	1.4	B	0.55	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Ethylbenzene	0.009		0.008	mg/kg	30 TAC 335 Industrial Soil GWP	70	mg/kg
			p-Isopropyltoluene	0.03		0.008	mg/kg	30TAC335 Ind Soil GWP (Toluene)	100	mg/kg
			Toluene	1.5	D	0.042	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg
SW119	28SD119	--	Arsenic	5.3		0.83	mg/kg	Soil Background	9.2	mg/kg
			Barium	109		0.16	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	10.4		0.13	mg/kg	Soil Background	0.67	mg/kg
			Chromium	14.5		0.19	mg/kg	Soil Background	24.9	mg/kg
			Lead	25.2		0.48	mg/kg	Soil Background	19	mg/kg
			Bis(2-ethylhexyl)phthalate	13	B	1.8	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Di-n-octyl Phthalate	7		1.8	mg/kg	30 TAC 335 Industrial Soil GWP	204	mg/kg
			1,2,3-Trichlorobenzene	0.12		0.014	mg/kg	30 TAC 335 Industrial Soil GWP	7	mg/kg
			1,2,4-Trichlorobenzene	0.067		0.014	mg/kg	30 TAC 335 Industrial Soil GWP	7	mg/kg
			1,2,4-trimethylbenzene	0.14		0.014	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	511	mg/kg
			1,2-Dichlorobenzene	0.023		0.014	mg/kg	30 TAC 335 Industrial Soil GWP	60	mg/kg
			1,3,5-trimethylbenzene	0.067		0.014	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	511	mg/kg
			1,4-Dichlorobenzene	0.017		0.014	mg/kg	30 TAC 335 Industrial Soil GWP	7.5	mg/kg
			2-Butanone	0.15		0.014	mg/kg	30 TAC 335 Industrial Soil GWP	511	mg/kg
			4-Methyl-2-pentanone	0.016		0.014	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	818	mg/kg
			m,p-Xylene	0.021		0.014	mg/kg	30 TAC 335 Industrial Soil GWP	1000	mg/kg
			n-Butylbenzene	0.066		0.014	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	102	mg/kg
			p-Isopropyltoluene	0.046		0.014	mg/kg	30TAC335 Ind Soil GWP (Toluene)	100	mg/kg
			sec-Butylbenzene	0.024		0.014	mg/kg	30TAC335 Ind Soil GWP Calc. MSC	102	mg/kg
			Toluene	0.019		0.014	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg
SW120	28SD120	--	Arsenic	7.4		0.46	mg/kg	Soil Background	9.2	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-028 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SW120	28SD120	--	Barium	140	0.088	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	1.3	0.074	mg/kg	Soil Background	0.67	mg/kg
			Chromium	21.3	0.1	mg/kg	Soil Background	24.9	mg/kg
			Lead	12.7	0.26	mg/kg	Soil Background	19	mg/kg
			Selenium	2.2 B	1.6	mg/kg	30 TAC 335 Industrial Soil GWP	5.0	mg/kg

APPENDIX F

PAH Position Paper

FH-028

POLYCYCLIC AROMATIC HYDROCARBONS

POSITION PAPER

JULY 14, 1998

INTRODUCTION

Polycyclic (or polynuclear) aromatic hydrocarbons (PAHs) are distributed in surface soil and sediment at FH-028. This is not atypical with respect to PAH contamination because PAHs are one of the most common contaminants in the environment (ASTDR 1994, Edwards 1983: Eisler 1987; LaFamme and Hites 1978; Yang et al. 1991). PAH contamination presents a unique problem in that the concentrations found at FH-028 according to the TNRCC Screening criteria pose unacceptable risks to human health; however, many continuing PAH sources such as emissions from automobiles and tanks and nearby utility poles are more likely contributors to the PAH contamination than past SWMU activities. This questions whether PAHs require remediation in the RCRA corrective action and closure processes and whether any remediation efforts would be effective given the presence of continuing PAH sources.

2. BACKGROUND

PAHs are semi-volatile organic compounds that consist of two or more fused aromatic rings and include chemicals such as anthracene, benzo(a)pyrene (B(a)P), fluoranthene, and naphthalene, PAHs are formed when hydrocarbons undergo incomplete combustion in which hydrogen is consumed in preference to carbon. This results in the production of carbon ring structures that compose PAHs. PAHs exhibit a high degree of thermal stability, meaning they are not affected or broken down by common combustion reaction of incinerations. They are non-polar, high melting point, high boiling point compounds that are insoluble in water. Incomplete combustion of hydrocarbons is a common process; consequently, PAHs are ubiquitously distributed in most environmental media (i.e. air, soil, groundwater, surface water, and sediment) (ASTDR 1994; Edwards 1983; Eisler 1987; LaFlemme and Hites 1978; Yang et al. 1991).

2.1 COMMON SOURCES AND REPORTED CONCENTRATIONS

PAHs are introduced into the environment by both natural and anthropogenic (man-made) combustion processes. Major sources of naturally produced PAHs include volcanic eruptions, forest fires, and microbial production. Anthropogenic activities associated with significant production of PAHs include coke production in the iron and steel industry, catalytic cracking in the petroleum industry, the manufacture of carbon black and coal tar pitch and asphalt, power generation, controlled refuse incineration, woodburning stoves and fireplaces, cigarette smoking, open burning, and emissions from internal combustion engines (ASTDR 1994; Concord 1992; Edwards 1983; Eisler 1987; Menzie et al. 1992; Yang et al. 1991). The high thermal stability of PAHs result in their presence in the combustion products of most systems burning fossil fuels and wood. PAHs are natural components of crude oil, coal, and wood and therefore are released during the combustion of these fuels. As a result, any process involving the heating or combustion of crude oil, petroleum-derived products, coal or wood is a potential source for PAHs. However, properly managed combusters (e.g., modern fossil fuel-burning power plants) that operate at low temperatures (e.g., wood burning fireplaces) are more significant sources of PAHs. In addition to combustion-related sources,

the direct application or release of any PAH-containing material, including asphalt, lubricating oil, coal tar, also can introduce PAHs into the environment.
Current literature suggest that the most common anthropogenic source of PAHs in the environment is automobile exhaust (Concord 1994; Edwards 1983; Eisler 1987; Menzie et al. 1992; Munch 1991; Takada et al. 1991; Yang et al. 1991). The high thermal stability of PAH compounds allows them to survive engine combustion and be released into the environment. The natural occurring presence of PAHs in coal and crude oil suggest that some geologic formations also may be sources of PAHs in the environment.

An understanding of the ambient environmental concentrations of PAHs can be obtained from numerous papers that have documented the levels of PAHs found in rural and urban soils. Carcinogenic PAHs have been found in surface soils throughout the world. Whether in an urban area, rural area, or remote forest, PAHs are present. These detections indicate that PAHs are present in most areas even in the absence of activities associated with handling wastes containing PAHs. Urban areas typically have higher soil concentration of carcinogenic PAHs than do rural or forest areas because of the proximity of urban areas to sources of fossil fuel combustion. Reported levels in soil from various environments are discussed below.

Forest Soil. Typical PAH concentrations for forest soil range from 1.5 µg/kg B(a)P in German beech and spruce forest near Lake Constance to 40 µg/kg in oak and pine forest in Massachusetts to 240 to 1300 µg/kg B(a)P in mixed forests in Connecticut and Massachusetts (Edwards 1983). Total PAH concentrations of 7000 µg/kg have been described for coniferous forest in Maine and 13,000 µg/kg for an oak forest in Massachusetts (Edwards 1983).

Agricultural Soil. PAH concentrations in agricultural soil vary from 86.6 µg/kg B(a)P (1,109 µg/kg total PAHs) for cultivated soil in Canada to 900 µg/kg B(a)P in a plowed field in Connecticut. Plowed wheat and cotton fields in Russia contained 0.4 and 4.6 µg/kg B(a)P, respectively (Edwards 1983).

Urban Soil. PAH concentrations in soil in urban areas have been reported at concentrations between 600 and 120,000 µg/kg. Bradley et al. (1994) described total PAH concentrations in Providence, Rhode Island, Boston, Massachusetts, and Springfield, Massachusetts at 16,800, 18,700, and 19,100 µg/kg (2,900, 4,600, and 4,500 µg/kg B(a)P), respectively. B(a)P concentration in Moscow ranged from 79.3 to 346.5 µg/kg. Blumer (1961) reports that B(a)P concentration in Cape Cod, Massachusetts soil range form 40 to 1300 µg/kg. Soil form open country near a town in Switzerland contained between 5,000 and 120,000 µg/kg total PAHs. Soils at the base of a utility poles in British Columbia showed a mean total PAH concentration of 3,076,000 µg/kg, while wood chips/splinters form treated wood poles and rail way ties contained about 62,000,000 and 1,600,000 µg/kg total PAHs, respectively (Wan 1994).

Soil in Industrial Areas. Soil in industrial areas have been reported to contain between 5.8 and 200,000 µg/kg B(a)P. Soil from an urban/industrial area in Czechoslovakia contained between 37.7 and 42.1 µg/kg B(a)P. In Russia, soil from a plastic factory contained between 5.8 and 299.7 µg/kg B(a)P and soil form an

oil refiner contained 200,000 µg/kg B(a)P. Soil from a German tar plant was found to contain 120,000 µg/kg B(a)P (Edwards 1983).

Soils near Roads and Highways. Several studies have reported PAH concentrations associated with roads and highways. Eisler (1987) reported between 8,000 to 336,000 µg/kg total PAHs in road dust. A study of PAH concentrations found a mean concentration of 363 µg/kg B(a)P (3,346 µg/kg total PAHs) 0.5 meters form a major arterial road in a residential area in Brisbane, Australia (Yang et al. 1991). In fact, significant concentrations were detected at distances of 15 meters from the road (Yang et al. 1991). Another study sampled soil 0.2 meters from a road where total PAH concentrations ranged from 6,600 to 9,800 µg/kg, while B(a)P concentration fanged form 260 to 450 µg/kg (Munch 1991). A summary of existing data in a study funded by the Canadian government reported soil concentrations of 3,196 µg/kg of B(a)P 1 meter form a road and 947 µg/kg of B(a)P 100 meters from a Canadian road (Concord 1992) indicating that PAH levels decrease with distance from the road. A focused study of PAH concentrations in soil that one might expect to find due to automobile exhaust. B(a)P concentrations in soil ranged form 165 to 3,196 µg/kg, and total PAH concentrations ranged from 20,000 µg/kg at 1 meter to 8,000 µg/kg at 600 meters from a road.

2.2 FATE AND TRANSPORT

When released into the atmosphere, PAH compounds will become associated with particulate materials. Their residence time in the atmosphere, and transport to various geographic locations is governed by particulate size, meteorological conditions, and atmospheric reactions (Eisler 1987). Atmospheric reactivity is limited by the lifetime of the particle, which is affected by diffusion, sedimentation, and wet scavenging processes (Concord 1992). Transformation reactions of PAHs include nitration reactions and reactions with ozone and sulphur oxides. However, much of the PAHs released into the atmosphere eventually reach soil and surface water.

Migration of PAHs downward in the soil column is limited by the relatively strong adsorption of PAHs to soil particles (Concord 1992). Site-specific modeling of soil leaching has been conducted at a DOE facility for seven PAHs including B(a)P. The modeling results indicate that hundreds to thousands of years are required for PAHs in soil to migrate to groundwater, and higher molecular weight PAHs such as B(a)P migrate more slowly than lower weight PAHs. In general, the available evidence suggests that downward migration of PAHs in soil is limited and that PAHs do not appear to pose a threat to groundwater.

In surface water, PAHs my disperse into the water column, evaporate, settle out of the water column into bottom sediments, concentrate in aquatic organisms, or degrade (e.g. photochemical or biological oxidation). Once in bottom sediments, PAHs degrade very slowly due tot he absence of oxygen and light. As a result of rapid sedimentation and low degradation, sediments tend to accumulate PAH concentrations by a factor of 1000 or more relative to the overlying water (Concord 1992).

2.3 Risk Effects

2.3.1 Human Health Risks from Exposure to PAHs

Human health concerns center on the known or suspected carcinogenic properties as well as potential noncarcinogenic effects of some PAHs. Low molecular weight PAHs have toxic effects, but typically are not carcinogenic. However, high molecular weight PAHs are carcinogenic, but are relatively nontoxic. As a result of the widespread distribution of PAHs, humans are exposed to these compounds nearly everyday (Menzie et al. 1992). Typically, the largest potential dose of carcinogenic PAHs to nonsmokers is through consumption of food (96.2% of total PAH dose/day) (Menzie et al. 1992). Smokers and individuals living in urban environments with high ambient PAH concentrations may receive nearly an equal dose from air (Menzie et al. 1992). Menzie et al. (1992) report that incidental soil ingestion and consumption of drinking water only account for approximately 2.1% of the daily dose, but these are two of the media regulated in the RCRA corrective action process; whereas, food and tobacco smoke are not regulated by this process.

3. POTENTIAL SOURCES OF PAHS AT FH-028

Several of the previously mentioned sources of PAHs apply to past and/or present processes associated with FH-028 facility:

- combustion engines exhaust,
- utility poles and railroad ties (not sure of railroad ties),
- asphalt/paving operations, and
- dust/vegetation control operations (waste oil application).

Combustion Engine Exhaust. Vehicle exhaust is likely a source of PAHs in surface soil and sediment at FH-028. As mentioned previously, concentrations of B(a)P exceeding 3000 µg/kg have been frequently detected near roads and highways. In addition, emissions from the tanks that frequently travel the roads near the site are likely sources for the contamination. The highest concentration of B(a)P at FH-028 is 2800 µg/kg at SB-102.

Utility Poles. Treated wood utility poles are present at FH-028. As discussed previously, utility poles can be significant local sources of PAHs. For example soils at the base of utility poles have been shown to contain a mean total PAH concentration of 3,076,000 µg/kg (Wan 1994). In addition, wood chips/splinters from treated wood poles and railway ties contained about 62,000,000 and 1,600,000 µg/kg total PAHs, respectively (Wan 1994).

Asphalt/Paving Operations . Asphalt/paving operations include all areas where asphalt pavement has been installed (roads, parking lots, erosion control) and numerous areas where a grave/tar mixture has been installed along roads or buildings.

Dust/Vegetation Control Operations. Although no specific documentation is available which details the use of waste oil in dust and vegetation control, this type of application of waste oil was a common practice. The application of waste oil as a dust control was a common practice in the United States by farmers, resident, government, and industries. No analytical data is available relating to possible PAH concentrations in waste oil used in these types of applications.

4.0 FH-028 CONTAMINANTS OF CONCERN

Based on the most recent sampling event the following potential contaminants of concern and their concentration range at FH-028 are presented below.

Analyte	Range in mg/kg
Arsenic	10.3
Cadmium	0.63 to 5.8
Lead	22.5 to 530
Chromium	138
PAHs	
benzo(a)pyrene	.059 - 2.8
benzo(a)anthracene	.046 - 3.1
benzo(b)fluoranthene	0.84 - 4.6
benzo(g,h,i)perylene	0.4 - 1.6
benzo(k)fluoranthene	0.46 - 3.0
chrysene	0.75 - 4.5
dibenzo(a,h)anthracene	0.44 - 0.66
indeno(1,2,3-cd)pyrene	0.44 - 2.0
phenanthrene	0.43 - 1.1

CONCLUSIONS RELATING TO PAH REMEDIATION AT FH-028

PAHs are widely distributed in the environment and pose toxic and/or carcinogenic health risks to human and ecological receptors. PAHs have been detected in soil and sediment at FH-028; however, the concentrations detected are similar to concentrations detected in many areas outside of the facility boundaries such as other industrial areas and roadway soils as discussed previously. For example, of the B(A)P concentrations detected the highest concentration was 2.8 mg/kg which is less than the literature values for B(a)P in industrial soil. Accordingly, the risk from exposure to PAHs at FH-028 is similar to numerous environmental exposures which occur outside of FH-028.

The nature and concentration of PAHs in soils and sediment are similar to what has been reported by literature in areas that are not hazardous waste sites. PAHs exist in soils in forest, agricultural, rural, industrial , and urban areas. In addition, PAHs are present in most sediments, especially those near urban areas. At this time, US EPA is not requiring mitigation of PAHs at these locations which probably pose similar risk to human health and the environment. Remediating PAHs at FH-028 would reduce PAH levels below those typical at many other locations, but would not reduce risk to the general populations or environment.

At this time, it is possible to attribute most of the PAH contamination to on-site sources including asphalt, tar, automobile and tank exhaust, utility poles, and dust control as likely contributors to the PAH contamination, and these sources are still present at FH-028 and will continue to release PAHs. In addition, PAHs have probably been and continue to be transported to FH-028 from numerous off-site sources via wind dispersal and subsequent deposition. As a result, remediation of PAH contamination now would probably not be a long-term solution due to continuous deposition of PAHs to the environment from both on-site and off-site sources. Consequently, implementation of a RCRA Corrective Action in this area at this time would not reduce the overall risk to human health or the environment. It is recommended that any action for PAHs in surface soil and sediment at FH-028 locations be deferred until facility closure. PAH concentrations and the associated risks will be evaluated at that time for remediation to risk-based levels. However, implementation of surveillance and maintenance activities prior to closure, could be used for evaluation of PAH levels and a significant increase in concentration could warrant remediation at that time.