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Remedial Investigation Report at Fort Irwin Installation Restoration Site 27 (FTIR-27)

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San Bernardino County, California

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ACRONYMS AND ABBREVIATIONS

µg/kg	Microgram per kilogram
APCL	Applied P & Ch Laboratory
Army	U.S. Department of the Army
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
cfu	Colony forming units
COC	Chain of custody
COPC	Chemical of potential concern
DQO	Data quality objectives
EI&A	Environmental Investigation & Action, Inc.
EPA	U.S. Environmental Protection Agency
FTIR-27	Fort Irwin Site 27
IDW	Investigation-derived waste
IRP	Installation Restoration Program
JMM	James M. Montgomery Consulting Engineers, Inc.
MADEP	Massachusetts Department of Environmental Protection
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
mph	Mile per hour
msl	Mean sea level
National Guard	California Army National Guard
NTC	National Training Center
OVA	Organic vapor analyzer
Parsons	Parsons Engineering Science, Inc.
PAH	Polynuclear aromatic hydrocarbons
PCB	Polychlorinated biphenyl
RI	Remedial investigation
SESOIL	Seasonal Soil Compartment Model
SVOC	Semivolatile organic compound

ACRONYMS AND ABBREVIATIONS (Continued)

Tetra Tech	Tetra Tech EM Inc
TOC	Total organic carbon
TPC	Total heterotrophic plate counts
TPH	Total petroleum hydrocarbons
TRPH	Total recoverable petroleum hydrocarbons
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey
VOC	Volatile organic compound

EXECUTIVE SUMMARY

This remedial investigation (RI) report presents the results of the RI activities conducted at the National Training Center (NTC) Fort Irwin Site 27 (FTIR-27) and the resulting fate and transport evaluation. The purpose of the investigation and subsequent data evaluation was to (1) define the vertical extent of total petroleum hydrocarbon (TPH) and other chemicals of potential concern (COPC) contamination at FTIR-27, (2) determine whether biodegradation is potentially occurring at the site, and (3) determine whether the COPCs will reach the water table in the future.

FTIR-27 is located in a vacant lot near the center of the Cantonment area at NTC Fort Irwin. NTC Fort Irwin is located 35 miles northeast of Barstow in San Bernardino County, California. An asphalt concrete parking lot was constructed at the site and completed on March 27, 2004 (Tetra Tech EM Inc. [Tetra Tech] 2004a).

The original petroleum source at FTIR-27 was a former 10,000-gallon, underground concrete vault (Tank 72), which reportedly contained Bunker C fuel oil. The tank was removed from the site in January 1994. In March 1994, 1,800 tons of soil contaminated with petroleum hydrocarbons were excavated from around the former vault. The excavation was backfilled with clean fill material consisting of lean clay to an average depth of 15 feet below ground surface (bgs). Subsequent investigations were conducted in August 1994 and August 2000 to determine the vertical and lateral extent of contamination remaining at the site beyond the excavation boundary. Compounds detected in soil from these investigations included TPH, polynuclear aromatic hydrocarbons, and benzene, ethylbenzene, toluene, and total xylenes compounds. Methyl-tert butyl ether, one of the volatile organic compounds (VOC) analyzed as part of the August 2000 investigation, was not detected in any samples. Metal concentrations detected in the August 1994 and August 2000 investigations were at levels consistent with background concentrations established for NTC Fort Irwin, with the exception of cadmium measured in samples collected in 2000 (USACE 2000). The concentrations of cadmium were not considered related to the TPH release at the site and were all below the U.S. Environmental Protection Agency (EPA) Region IX 2004 preliminary remediation goals (EPA 2004).

This RI includes three soil borings to define the extent of TPH contamination (Tetra Tech 2003). Borings 27-2003-B01 (B01), 27-2003-B02 (B02), and 27-2003-B03 (B03) were installed to depths of 66.5, 61.5, and 35.5 feet bgs, respectively, in the former Tank 72 footprint. The borings were logged at 5-foot intervals and samples were collected to determine the vertical and areal extent of TPH, semivolatile organic compounds (SVOC), and VOCs. In addition to the analyses mentioned above, two of the soil samples collected were analyzed for the following physical parameters: total soil porosity, bulk density, permeability, hydraulic conductivity, and total organic carbon (TOC). Two separate samples also were analyzed for the presence of heterotrophic bacteria capable of biodegradation and TPH fractionation.

TPH was detected in the three soil borings. The concentrations were predominantly the heavier petroleum hydrocarbon fractions (TPH-diesel and TPH-motor oil fractions) that are known to be associated with Bunker C fuel oil (Alimi 2002). TPH fractions with the highest concentrations were in the C9 and greater hydrocarbon range for aliphatic and aromatic compounds. The highest TPH concentrations ranged from 11,600 to 24,900 milligrams per kilogram at depths between 21 to 36.5 feet bgs in borings B01 and B02. The highest VOC and SVOC concentrations were measured in the samples with the highest TPH concentrations. The main zone of contamination in the vadose zone appears to be confined to a depth of approximately 40 feet bgs and appears to be relatively immobile based on previous and current investigations. The base of the main zone of soil contamination occurs at the top of and appears relatively immobilized by hard, cemented sand presumably with relatively low permeability.

The only way for TPH to migrate farther would be from dissolution into percolating groundwater (infiltration). Subsequent vertical migration of dissolved-phase contamination past the immobile, residual TPH in soil was conservatively estimated using the Seasonal Soil Compartment Model (SESOIL) fate and transport model. Site-specific parameters including permeability, bulk density, hydraulic conductivity, soil moisture content, and TOC were used in the SESOIL simulation. Conservative input parameters such as maximum TPH concentrations at each depth interval were assumed. In addition, the model assumes direct infiltration of rainwater, which is limited due to the newly constructed parking lot at the site

The results of the modeling indicate that none of the TPH or other compounds would reach the water table within 300 years from present time. The most mobile COPCs were calculated to migrate no farther than 189 feet bgs during this time. Based on the vertical migration results of the SESOIL model, TPH contamination present at FTIR-27 does not present a risk to groundwater quality. These modeled results are considered conservative based on the model input parameters as well as the fact that the asphalt concrete parking lot constructed at the site significantly limits surface water infiltration and subsequent COPC mobility in the vadose zone. Based on the source of the contamination (Tank 72) being removed and the predicted absence of risk to groundwater quality, no further corrective action is recommended for FTIR-27.

Based on the review of the draft FTIR-27 RI Report (Tetra Tech 2004b), the Department of Toxic Substances Control (DTSC) submitted a letter acknowledging the low probability of residual TPH contamination impacting groundwater at FTIR-27 and concurring with the recommendation for no further action. The California Regional Water Quality Control, Lahontan Region (RWQCB) also concurred with the DTSC letter. Appendix F includes a copy of the DTSC correspondence.

1.0 INTRODUCTION

Tetra Tech EM Inc. (Tetra Tech) received Task Order No. 9T3N014SH from the U.S. Army Corps of Engineers (USACE), under Contract No. GS-10F-0076K, to conduct remedial investigation (RI) activities at Fort Irwin Site 027 (FTIR-27), located at National Training Center (NTC) Fort Irwin, California. RI activities at FTIR-27 were performed under the Defense Environmental Restoration Program, Installation Restoration Program (IRP). This RI report (1) documents RI activities conducted at FTIR-27, (2) summarizes the vertical and areal extent of total petroleum hydrocarbon (TPH), semivolatile organic compound (SVOC), and volatile organic compound (VOC) contamination in soil beneath the former underground concrete vault (Tank 72), (3) summarizes whether biodegradation is potentially occurring in the vadose zone, and (4) assesses the potential vertical migration of chemicals of potential concern (COPC) with respect to the water table through the use of a fate and transport model.

The investigation activities were conducted in accordance with the "Final Remediation Investigation Workplan" (RI Workplan) for FTIR-27, dated October 15, 2003 (Tetra Tech 2003), regulatory agency guidance documented herein, and the "Project Work Plan for the Site Inspection and RI of 31 Sites at NTC Fort Irwin, California" (Parsons Engineering Science, Inc. [Parsons] 1995).

Based on the review of the draft FTIR-27 RI Report (Tetra Tech 2004b), the Department of Toxic Substances Control (DTSC) submitted a letter acknowledging the low probability of residual TPH contamination impacting groundwater at FTIR-27 and concurring with the recommendation for no further action. The California Regional Water Quality Control, Lahontan Region (RWQCB) also concurred with the DTSC letter. Appendix F includes copies of the agency correspondence.

The following sections describe the purpose, site background, physical setting (including geology and hydrogeology), past investigations conducted at FTIR-27, and organization of this RI report.

1.1 PURPOSE OF REMEDIAL INVESTIGATION REPORT

The purpose of this final RI report is to document the investigation activities conducted at FTIR-27, summarize laboratory analytical data from soil boring samples, and evaluate the risk to groundwater quality through the use of fate and transport modeling to estimate the vertical migration of TPH contamination. This RI also documents the completion of RI activities in accordance with data quality objectives (DQO) (Table 1) established in the RI Workplan for FTIR-27 (Tetra Tech 2003).

1.2 REMEDIAL INVESTIGATION REPORT ORGANIZATION

This RI report is organized into eight sections and four appendices. Section 1.0 provides an introduction and discusses the purpose of the RI report. Section 2.0 provides the background for this investigation, which includes site history and site conditions (geology and hydrogeology). Section 3.0 discusses the environmental impact description, the purpose of the RI, the RI conceptual model, DQOs, and differences between the work conducted under the current investigation and provisions outlined in the RI Workplan. Section 4.0 provides a description of activities conducted under the current RI investigation. Section 5.0 discusses the extent of TPH contamination on the site based on analytical results obtained from the current investigation. Section 6.0 discusses the results of the Seasonal Soil Compartment model (SESOIL) model runs with respect to vertical migration of TPH contamination at the site. Section 7.0 summarizes the results of the investigation and the fate and transport modeling done at the site as well as provides recommendations. References for this report are provided following Section 7.0.

2.0 SITE BACKGROUND

The following sections provide a physical description and history of FTIR-27 as well as previous investigations conducted to date.

2.1 SITE DESCRIPTION

Fort Irwin encompasses approximately 1,000 square miles of the Mojave Desert, approximately 35 miles northeast of Barstow in San Bernardino County, California (Figure 1). The site, FTIR-27, is located in a vacant lot at the intersection of 2nd Street and Inner Loop Road, near the center of the Cantonment area at NTC Fort Irwin (Figures 2 and 3). An asphalt concrete parking lot was completed on March 27, 2004, which covers the entire site (Tetra Tech 2004a) The construction completion report for the installation of the parking lot is attached as Appendix E. FTIR-27 consists of a former underground concrete vault, identified as Tank 72, which reportedly contained Bunker C fuel oil Tank 72 was removed from the site in 1994 along with approximately 1,800 tons of soil contaminated with petroleum hydrocarbons

2.2 SITE HISTORY

NTC Fort Irwin was originally established in 1940 as a U.S. Department of the Army (Army) anti-aircraft training range. Activities on the installation include firing range training, landfill disposal, fuse and unexploded ordnance landfill disposal, vehicle maintenance, and power generation. Previous environmental investigations at NTC Fort Irwin have centered on the effects of these activities.

The Army and the California Army National Guard (National Guard) have used NTC Fort Irwin intermittently since the 1940s. In 1951, Camp Irwin was reactivated following a 7-year period when the Department of the Interior held ownership. In 1961, the Army opened Fort Irwin to serve as an armor and artillery training center. Fort Irwin closed in 1971 and transferred ownership of the land to the State of California as a training area for the National Guard in 1972. In 1981, the Army was reissued command and the facility was reopened as NTC Fort Irwin.

The FTIR-27 site was occupied by a tent hospital between the early 1940s to 1966; since 1966 no other facility has occupied the site. A 10,000-gallon underground concrete vault (20 feet long, 20 feet wide and 4 feet deep) was located within FTIR-27. The vault, designated as Tank 72, reportedly was used to store Bunker C fuel oil. The vault was removed on January 11, 1994. In March 1994, Environmental Investigation & Action, Inc. (EI&A) excavated approximately 1,800 tons of petroleum product-contaminated soil from a 45- by 65-foot area to an average depth of approximately 15 feet. The excavation was lined with plastic sheeting and backfilled with lean clay. No piping was found in association with the vault (USACE 1994).

2.3 PHYSICAL SETTING

The following sections summarize the regional and Fort Irwin geology and hydrogeology as well as the climate and meteorology.

2.3.1 Climate/Meteorology

The semi-arid climate of the Fort Irwin area is typical of the Basin and Range geomorphic province in general and of California's Mojave Desert in particular. Rainfall is infrequent, temperatures are warm to hot with large seasonal diurnal ranges, relative humidity is low, and clear skies predominate. Temperatures vary from a mean winter maximum of 60° F to a mean winter minimum of 32 °F in January and a mean summer maximum of 106 °F to a mean summer minimum of 73 °F in July. Annual precipitation is approximately 4 inches, falling mostly from November through March, with more than half of the precipitation falling from December to February. Light rainfall and thunderstorms may occur when warm, moist tropical air off the coast of Mexico's Baja California enters the dessert.

The predominant winds are from the southwest and west-southwest during each month, except for November and December when they are mainly from the northwest. During fair conditions, the wind blows from the northwest as air flows toward the lower elevations to the southeast. The average wind speed for a 20-year period was recorded as 2 to 9 miles per hour (mph) and the maximum extreme wind speed for a 14-year period was recorded as 87.5 mph (Montgomery Watson 1995). Wind chills of less than 10 °F are typical for the coldest winter days.

2.3.2 Regional Geology

Fort Irwin Basin is an intermontane basin within the Basin and Range Physiographic Province. The extensional tectonic regime that existed in the region from the Oligocene through Miocene periods (approximately 35 through 6 million years ago) led to normal faulting, which produced a series of alternating basins and mountain ranges that give the province its name. Fault-bounded valleys or basins are located between mountain ranges (Frazier and Shwimmer 1987).

Sediments eroded from the fault-bounded ranges form alluvial fans, which spread out laterally at the base of the mountains. These alluvial fans extend outward into the valleys, where they either merge with the valley floor or extend across the valley to join fans from the other side, forming alluvial divides. The alluvium is coarsest at the apex of the fans (proximal) and becomes progressively finer-grained downslope (distal). The thickness of individual beds decreases dramatically from the proximal to distal portions of the alluvial fan.

Major regional fault zones in this portion of the Basin and Range Province include Garlock Fault Zone, Death Valley Fault Zone, and Panamint Valley Fault Zone. Garlock Fault Zone is one of the largest fault zones near Fort Irwin Basin. This fault zone is approximately 7 miles wide and crosses the northern portion of the installation about 25 miles north of Fort Irwin. Garlock Fault Zone is a system of northeast- and east-trending faults that have exhibited left-lateral displacement of as much as 40 miles throughout the Cenozoic (about 65 million years ago through the present) (Davis and Burchfiel 1973).

2.3.3 Geology of Fort Irwin Basin

Mountainous areas that consist predominately of igneous and metamorphic rocks surround Fort Irwin Basin. Miocene volcanic rocks, consisting of basalt, andesite, rhyolite, and tuff, make up the mountainous areas on the northern and western sides of the basin. Jurassic igneous rocks (quartz monzodiorite) also crop out on the northern and western sides of the basin. Mountains on the southern side of the basin are characterized by Jurassic igneous rocks (quartz monzodiorite) and Cambrian to Late Proterozoic marble. Metamorphic rocks consisting of schist, gneiss, and amphibolite, crop out in the mountainous areas on the eastern side of the basin. Figure 4 presents a geologic depiction of Fort Irwin Basin (Yount and others 1994).

Quaternary alluvial fan deposits consisting of sand, gravelly sand, and sandy gravel eroded from the adjacent mountain fronts cover the floor of Fort Irwin Basin. Bicycle Lake (in Bicycle Lake Basin) to the northeast of Fort Irwin Basin is a playa lake in which fine-grained, Holocene deposits of clay and silt have accumulated. Other Quaternary units in Fort Irwin Basin consist of recent sheet-wash deposits (sand and sandy gravel) associated with intermittent streams; colluvial deposits from talus and rockfall (predominately gravel); spring deposits that are composed of carbonate-cemented silt and sand; and eolian (windblown) deposits which are composed of fine- to medium-grained sand.

Lithologic and electric logs from wells within Fort Irwin Basin indicate that the alluvial deposits consist of gravel, sand, and silt, with lenses of clay. The thickness of the alluvium ranges from 0 feet near the periphery of the basin to more than 500 feet in the west-central portion of the basin (near the installation).

Fault traces near and within NTC Fort Irwin are generally parallel to Garlock Fault Zone (east-west) or northwest-southeast. Local faults, such as Bicycle Lake Fault, Garlic Spring Fault, and numerous, unnamed faults, pass through NTC Fort Irwin.

Garlic Spring Fault is a northwest-striking fault located on the southeastern edge of Fort Irwin Basin. This fault zone is characterized by right lateral movement and exhibits approximately 0.6 mile of displacement. Garlic Spring Fault is responsible for Garlic Spring and is estimated to be mid-Pleistocene or older in age, based on relative age dating. Bicycle Lake Fault is an east-striking fault. It is a predominantly left lateral fault that exhibits an offset from about 2 to 5 miles (Yount and others 1994).

2.3.4 Regional Hydrogeology

Regional geologic units typically are grouped into two broad categories based on their hydrogeologic characteristics: water bearing and nonwater-bearing. Water-bearing units consist of unconsolidated to semi consolidated alluvial deposits that are Quaternary in age, continental in origin, and made up of materials ranging in size from coarse gravel to clay. Alluvial materials eroded from adjacent highlands are generally sufficiently porous and permeable to contain groundwater. However, these sediments generally are more consolidated with increasing depth,

and commonly exhibit cementation in older deposits. Nonwater-bearing volcanic deposits are interspersed locally within or overlie these alluvial sediments (Montgomery Watson 1995).

Cenozoic volcanic and metamorphic rocks that characteristically yield little to no water and represent most of the nonwater-bearing units. These units crop out in the mountain and hill areas, which surround the water-bearing basins. Nonwater-bearing units also underlie the water-bearing alluvium within the basins. In most cases, water-bearing basins in this part of the Basin and Range Province are not hydraulically connected; however, in some cases, basins may be hydraulically connected by interbasin geologic features such as faults. Groundwater basins located near NTC Fort Irwin include Irwin, Bicycle, Langford, and Coyote basins (Montgomery Watson 1995).

2.3.5 Hydrogeology of Fort Irwin Basin

Geologic units of the Irwin Basin region typically are grouped into two broad categories based on their hydrogeologic characteristics: water bearing and non-water-bearing. As such, the water-bearing units consist of unconsolidated to semi-consolidated alluvial deposits that are Quaternary in age, continental in origin, and made up of materials ranging in size from coarse gravel to silty clay. Water-bearing sediments result primarily from deposition of alluvial materials eroded from adjacent highlands. These sediments generally are more consolidated with increasing depth and commonly exhibit cementation in older deposits. Non-water-bearing volcanic deposits are interspersed locally within or overlie these alluvial sediments. However, the water-level data collected to date from wells east of the Fort Irwin containment area (Landfill Area) indicate that groundwater resides, at least, within the zone of weathered bedrock and may reside within bedrock fractures.

Cenozoic volcanic and metamorphic rocks, that characteristically yield little to no water, form the majority of the non-water-bearing units. These units outcrop in the mountain and hill areas surrounding the water-bearing basins. Non-water-bearing units (basement complex rocks or competent bedrock) also underlie the water-bearing alluvium within the basins. In most cases, water-bearing basins in this part of the Basin and Range are separated from each other by non-water-bearing bedrock highs that create conditions of alluvial constriction. However, in some cases basins may be connected hydraulically to each other because of inter-basin geologic

features, such as faults. Groundwater basins located near NTC Fort Irwin include the Irwin, Bicycle, Langford, and Coyote basins.

Natural discharge from the groundwater at the Irwin Basin to the Langford Basin occurs as subsurface underflow beneath the unnamed wash near Garlic Spring (Densmore 2003). Characteristics of the Irwin Basin developed from earlier studies (James M. Montgomery Consulting Engineers, Inc. [JMM] 1981) include the following:

- Storage: 140,000 acre-feet
- Useable storage: 47,00 acre-feet
- Average specific yield: 19.2 percent
- Transmissivity: 23,000 gallons per day per foot
- Permeability: 77 gallons per day per square foot
- Depth to water: 90 to 270 feet below ground surface (bgs)
- Maximum sediment thickness: 460 feet

Currently there are eight groundwater production wells (I-3 through I-10) in Fort Irwin Basin. In addition, a number of abandoned supply wells and test points also exist in the basin. Aquifer testing data from wells located within Fort Irwin Basin indicate that the transmissivity of the aquifer ranges from 2,300 to 40,000 gallons per day per foot (Wilson F. So and Associates, Inc., Consulting Engineers 1989).

Available information indicates that the alluvial aquifer of Fort Irwin Basin is characterized by unconfined conditions. The saturated zone of Fort Irwin Basin generally begins at a depth of between 100 and 300 feet bgs (approximately 2,300 and 2,000 feet above mean sea level [msl]). A potentiometric surface map was constructed based on preliminary water level measurements collected by USGS from wells located in Fort Irwin Basin. USGS data from October 1993, indicates groundwater flow is generally toward the center of the basin (Densmore 2003). The lowest groundwater elevations occur in the center of Fort Irwin Basin, where pumping reportedly has created a depression in the water table. Historical water level measurements indicate groundwater gradients from the perimeter to the center of Fort Irwin Basin range from 25 to 50 feet per mile (JMM 1992).

Additional water-quality data (Densmore and Longquist 1997) indicate that the Garlic Spring Fault may be acting as, at least, as a partial barrier to groundwater flow. Minor compaction and deformation of the water-bearing units immediately adjacent to the faults and cementation of the fault zone by the deposition of minerals from groundwater are believed to cause such "barrier" effects (USGS 2000).

The percolation (infiltration) of treated wastewater to the water table is the largest source of groundwater recharge in the Irwin Basin (Densmore and Longquist 1997). Another source of recharge is the infiltration of water used to irrigate lawns and playing fields that is not consumed by the plants. Natural recharge of groundwater due to direct infiltration from precipitation is assumed to be insignificant because of the infrequent occurrence of precipitation events and the high evaporation rates in the area (Densmore 2003).

Groundwater from active production wells in the Irwin Basin generally has a sodium sulfate-bicarbonate or sodium bicarbonate character and a total dissolved solids concentration between 400 and 600 milligrams per liter. Mineral quality of basin waters is generally good except for iron and fluoride, which are characteristically higher than allowable for domestic uses. Moderate increases in sodium, calcium, chloride, and nitrate have occurred in water from Fort Irwin Basin and may be related to past wastewater percolation practices at the installation (JMM 1992).

2.3.6 Site-Specific Geology and Hydrogeology

The subsurface geology at FTIR-27 was investigated in May 1994 (USACE 1994), and again in August 2000 (USACE 2000), following tank removal activities. A total of 15 borings were advanced at the site. The three most recent boring logs are presented in Appendix A. Based on boring logs from the investigations, sediments underlying the site consist of dense alluvial fan and wash deposits with varying amounts of sand, silt, and gravel (Appendix A). The majority of these sediments are poorly graded sand with minor amounts of silt, clay and gravel. Beds of clayey sand and silty sand are also common. These deposits have been eroded off the surrounding mountain front towards the center of the basin and have an estimated thickness of over 500 feet (USACE 2000). Fill material used to backfill the excavation pit after Tank 72 was removed consists of lean clay. Clean fill was used to backfill the upper 15 feet of the excavation.

Based on USGS data in 1999, the shallowest depth to groundwater at FTIR-27 was approximately 232 feet bgs (Densmore 2003). The elevation of groundwater at FTIR-27 was assumed to be the same as the USGS monitoring well (No. 14N/3E-32F3) located approximately 700 feet north of the site. The groundwater elevation measured at well No. 14N/3E-32F3 had increased to 2,288 feet above msl in 1999 (Densmore 2003) from 2,276 feet msl measured in 1994 (Densmore and Londquist 1997). The rise in groundwater elevation, which has been occurring since 1993, is attributed to decreased pumpage from the Fort Irwin Basin aquifer system and continued artificial recharge of wastewater in the southeastern portion of the basin (Densmore 2003). Groundwater flow in the vicinity of FTIR-27 appears to be easterly, based on USGS groundwater measurements from 1994 and 1999.

2.4 PREVIOUS INVESTIGATIONS

This section describes the results of previous investigations conducted at FTIR-27. These investigations include pre-removal characterization and post-removal confirmation sampling in January 1994 and post-removal site assessment activities in May 1994 (USACE 1994), and verification soil sampling performed in the summer of 2000 (USACE 2000). A conceptual site model based on results from previous investigations is presented in Figure 5.

2.4.1 Tank 72 Pre-removal Characterization and Post-removal Confirmation Sampling

On January 4, 1994, EI&A collected four samples from the site prior to removal of Tank 72. Sample descriptions include: number 72-Tank Concrete Vault, number 72-Tank Contents, number 72 7 feet and 0 inches, and number 72 7 feet and 6 inches (USACE 1994). Samples collected at depths of 7 and 7.5 feet bgs were analyzed for purgeable and extractable range TPH, VOCs, SVOCs, polychlorinated biphenyls (PCB), organochlorine pesticides, and five metals (cadmium, chromium, lead, nickel, and zinc). The vault and tank contents samples were analyzed for extractable range TPH, chlorinated VOCs, PCBs, organochlorine pesticides, SVOCs, and five metals (USACE 1994).

The soil samples collected at depths of 7- and 7.5-foot bgs contained concentrations of 20,000 and 19,000 milligrams per kilogram (mg/kg) in TPH diesel-range and 360 and 320 mg/kg in the TPH gasoline-range, respectively. The two soil samples also contained as much as 20,000 micrograms per kilogram (µg/kg) total xylenes, 2,300 µg/kg ethylbenzene, and the

following TPH-related SVOCs: 2-methylnaphthalene (220,000 µg/kg), naphthalene (38,000 µg/kg), and phenanthrene (4,000 µg/kg). PCBs and organochlorine pesticides were not detected in the four pre-removal samples. Concentrations for metals in these samples were comparable to median concentrations measured for sites present at Fort Irwin. In 1998, Parsons developed median background concentrations for metals in soil at NTC Fort Irwin based on samples collected at FTIR-11, -12A, -12B, -16, -18, -19, -33, -35, and -36. These median concentrations are presented in Appendix B (Parsons 1998). Pre-removal sampling results are also presented in Appendix B.

Confirmation sampling of the excavation pit was conducted by EI&A after tank removal. Seven samples were collected and analyzed for extractable range TPH. Six samples were collected from the sidewalls of the excavation and one sample was collected from the center of the excavation. Results showed that TPH contamination was still present on the eastern wall of the excavation at 10 feet bgs at a concentration of 16,000 mg/kg. Concentrations less than 1,000 mg/kg for extractable TPH also were detected on the northern and southern walls of the excavation. At the center of the excavation (26 feet bgs), the concentration of extractable TPH was 12,000 mg/kg (USACE 1994). Confirmation sampling results are presented in Appendix B.

2.4.2 Tank 72 Post-removal Site Assessment

In August 1994, USACE conducted a site assessment investigation to determine the vertical extent and nature of the TPH contamination remaining beyond the limits of the March 1994 excavation and removal of Tank 72. The investigation included the installation of 11 borings (FTI72-94-1 through FTI72-94-11) to a depth of 31 to 46 feet bgs, as shown on Figures 6a, 6b, 7a, and 7b. Thirty soil samples were collected from nine borings at varying depths and analyzed for purgeable and extractable range TPH, total recoverable petroleum hydrocarbons (TRPH), and benzene, ethylbenzene, toluene, and total xylenes compounds (BTEX). Three samples also were analyzed for SVOCs and two samples were analyzed for metals (USACE 1994).

Sampling results indicated that TPH contamination extended to a depth of about 35 feet bgs, or to about 17 to 27 feet below the backfilled excavation, in an area approximately 35 by 70 feet. The highest concentrations of TRPH ranged from 13,000 to 15,000 mg/kg in borings FTI72-94-6 (at 7.5 ft bgs), FTI72-94-7 (at 20.5 and 26.5 feet bgs), and FTI72-94-8 (at 10.5 feet bgs). These samples also contained 4,500 to 9,700 mg/kg extractable TPH; 490 to 2,100 mg/kg purgeable TPH; and as much as 9,000 µg/kg total xylenes and 9,000 µg/kg ethylbenzene. The two samples with the highest concentration of TRPH also contained concentrations of several TPH-related SVOCs; fluorene (4,800 µg/kg), 2-methylnaphthalene (48,000 µg/kg), naphthalene (12,000 µg/kg), phenanthrene (10,000 µg/kg) and pyrene (2,800 µg/kg). Concentrations of metals in the site assessment samples were comparable to median concentrations levels measured at Fort Irwin. At FTI72-94-10, TPH contamination was observed in the soil core from 20 to 22 feet bgs; however, no samples were analyzed. TPH, polynuclear aromatic hydrocarbons (PAH), and BTEX data from the 1994 site assessment are presented graphically on Figures 7a and 7b. Post-removal site assessment sampling results are presented in Appendix B.

2.4.3 Tank 72 Verification Soil Sampling

In August 2000, USACE conducted verification soil sampling at FTIR-27 to determine the vertical extent of TPH contamination, this included analyzing seven soil samples collected from four borings, FT00-2701 through FT00-2704, drilled adjacent to borings FTI72-94-9, FTI72-94-7 FTI72-94-1, and FTI72-94-3, respectively. The borings were placed within 10 feet of the 1994 borings, as shown on Figures 6a, 6b, 7a, and 7b. The seven soil samples collected from these borings ranged in depth from 11 to 47 feet bgs and were generally collected deeper than the initial sampling depths from the 1994 borings. Soil samples were analyzed for purgeable and extractable range TPH, VOCs, SVOCs, and metals (cadmium, chromium, lead, mercury, nickel, and zinc) (USACE 2000).

Soil sampling results indicated that the aereal extent of the TPH contamination at the site extends approximately 35 feet northeast-southwest and about 110 feet northwest-southeast, as shown on Figures 7a and 7b. Verification sampling results also showed that TPH contamination occurred at the bottom of the 46.5 feet deep boring FT00-2702, and extended to shallower depths to the west and east of borings FT00-2703 and FT00-2704, respectively. The highest concentrations of TPH were detected in borings FT00-2701 and FT00-2702. Total TPH concentrations (sum of

purgeable and extractable range TPH results) were approximately 50,000 mg/kg in boring FT00-2701 at 21 feet bgs, and 44,000 mg/kg in boring FT00-2702 at 11 feet bgs. These samples also contained the following maximum concentrations of TPH-related VOCs: benzene (32 µg/kg), total xylenes (4,400 µg/kg), and ethylbenzene (1,000 µg/kg); and SVOCs: fluorene (7,200 µg/kg), 2-methylnaphthalene (73,000 µg/kg), naphthalene (16,000 µg/kg), phenanthrene (19,000 µg/kg) and pyrene (6,700 µg/kg). Methyl-tert butyl ether which was also one of the VOCs analyzed, was not-detected in any of the samples. With the exception of cadmium, concentrations for metals (i.e. chromium, lead, mercury, nickel, and zinc) in the verification samples were comparable to Fort Irwin background concentrations. Cadmium concentrations in the seven verification soil samples ranged from 0.73 to 1.2 mg/kg, which exceeded the maximum background concentration of 0.668 mg/kg. Cadmium soil sample concentrations across the site were relatively consistent regardless of depth and did not appear to be co-located with concentrations of petroleum hydrocarbons (USACE 2000), indicating cadmium was not associated with the petroleum release at the site. The cadmium sample concentrations were all below the EPA Region IX 2004 preliminary remediation goals (EPA 2004), and not considered contaminants of concern at the site. Background concentrations for metals at Fort Irwin are presented in Appendix B. TPH, PAH, and BTEX verification data are presented graphically on Figures 7a and 7b. Verification soil sampling results are also presented in Appendix B.

3.0 ENVIRONMENTAL PROBLEM FORMULATION

The following sections discuss the conceptual site model for FTIR-27, the DQOs established in the RI Workplan, and the regulatory framework at the site.

3.1 REMEDIAL INVESTIGATION SITE MODEL

A site conceptual model for FTIR-27 is presented in Figure 5. This model is based on the vertical extent of TPH contamination delineated during the current investigation. The vadose zone consists mainly of alluvial fan deposits composed of varying amounts of silt, sand, and gravel. Samples were collected during this investigation to confirm the vertical and aereal extent of TPH, SVOC, and BTEX contamination present in soil beneath former Tank 72 (Table 2). At the depth interval coinciding with the main zone of contamination in the vadose zone, the fate and transport model (SESOIL) predicts that compounds migrate vertically toward the groundwater table via infiltration in pore water. Based on a 1999 USGS study, only a small amount of groundwater recharge is attributed to natural recharge with most of it being due to artificial recharge (treated wastewater discharge and irrigation) (Densmore 2003). Infiltration of pore water is highly unlikely given the arid climate and high evapotranspiration rates at FTIR-27. In addition, an asphalt concrete parking lot has been constructed at the site, significantly limiting any future potential infiltration. Based on these recharge conditions and the presence of an asphalt concrete parking lot at the site diminishing the infiltration rate, assumption for transport of the COPCs in the vadose zone via infiltration was carried forward in the site conceptual model and SESOIL fate and transport model to represent a conservative (worse case) condition.

3.2 DATA QUALITY OBJECTIVES

Table 1 lists the DQOs for the FTIR-27 RI, as outlined in the RI Workplan (Tetra Tech 2003). Data collected during this RI investigation satisfied the inputs required in Step 3 of the DQO process, which were applied to address the decision rules in Step 5. Specifically, field activities satisfied the lithologic, geotechnical, and chemical data required from the proposed boring locations by providing detailed boring logs with lithologic data; analytical data for compounds; physical and bacteriological parameters for selected samples; and prediction of vertical migration of compounds in the vadose zone using the SESOIL fate and transport model.

3.3 REGULATORY FRAMEWORK

Currently, there are no approved, installation-wide screening or remediation criteria for TPH at NTC Fort Irwin. USACE proposed in the RI Workplan (Tetra Tech 2003) to use the risk-based approach developed by the Total Petroleum Hydrocarbon Criteria Working Group as outlined in the guidance document "Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the Massachusetts Department of Environmental Protection (MADEP) Volatile Petroleum Hydrocarbon/Extractable Petroleum Hydrocarbon Approach" (MADEP 2002). Under the MADEP approach, the non-cancer toxicity of petroleum-contaminated media is established by (1) determining the collective concentrations of specified ranges of aliphatic and aromatic hydrocarbons, and (2) assigning a toxicity value (such as, reference dose) to each range. Based on the clean backfill placed in the excavation footprint of Tank 72, above the zone of contamination, a human receptor exposure pathway from the zone of contamination in the vadose zone is not present. Therefore, TPH concentrations detected in soil samples collected during this RI were not screened against risk-based criteria.

Risk-based screening levels for the non-carcinogenic TPH fraction and California maximum contaminant levels and U.S. Environmental Protection Agency (EPA) Region IX tap-water preliminary remediation goals for VOCs and SVOCs were defined in the Work Plan for the RI at FTIR-27. Comparison of modeled leachate concentrations to screening criteria was not made in this report because model results indicate that contamination will not reach the groundwater table.

4.0 REMEDIAL INVESTIGATION ACTIVITIES AT FTIR-27

The following sections discuss the selection of soil boring locations and RI field activities, which include installation and lithologic logging of three soil borings and soil sampling from those borings.

4.1 SELECTION OF SOIL BORINGS

Soil boring locations were selected based on previous data collected at the site. The RI Workplan (Tetra Tech 2003) originally proposed installation of two soil borings. These borings (27-2003-B01 [B01] and 27-2003-B02 [B02]) were located within the footprint of former Tank 72, in order to determine the vertical extent of TPH contamination. Sampling location B01 was chosen because of its proximity to FT00-2701 and FT00-2702. Sampling location B02 was selected due to its proximity to FT72-94-10, where no samples were collected, but a fuel odor was noted at a depth of 20 to 22 feet bgs. A third boring, 27-2003-B03 (B03), was installed east of boring B01 to further delineate the lateral extent of TPH contamination.

4.2 SOIL BORING INSTALLATION AND LOGGING

Field activities took place on November 19 and November 20, 2003. Three soil borings: B01, B02, and B03 were installed to depths of 66.5, 61.5, and 35.5 feet bgs, respectively, using a hollow-stem auger drilling method. Hard drilling was encountered at depths ranging from 26.5 to 57.5 feet bgs at borings B01 and B02. A total of 27 soil samples were collected from the borings and analyzed, as summarized in Section 4.3. The total number of samples analyzed was greater than the original number of samples proposed in the Work Plan (Tetra Tech 2003) and were used for site characterization purposes. Appendix A presents the complete lithologic logs for each boring.

4.3 SOIL SAMPLE ANALYSES

A portable organic-vapor analyzer (OVA) accurate to 1 part per million by volume, was used in the field to screen the soil core samples at 5-foot-intervals and to estimate the location of the zone of highest contaminant levels. For borings B01 and B02, five soil samples were chosen for laboratory analysis during field investigations. Three samples were chosen to profile the TPH

contamination in the upper, middle, and lower portions of the contamination zone, and the fourth sample was collected just below the contamination zone, based on field OVA readings and visual and olfactory inspection. The fifth sample was collected from the bottom of each boring to confirm that vertical extent of the TPH contamination has been defined. In addition, all remaining samples from each 5-foot interval, were collected and submitted to the laboratory to extract and hold, pending the initial sample results. Subsequent to field work, all samples submitted to the laboratory were analyzed and are presented in this RI report. For boring B03, the same screening process was used (at 5-foot intervals), but only three samples and one duplicate were chosen for analysis: representative of the top of the boring, near the center of the boring, and the bottom of the boring. After the samples were collected, they were immediately stored in a cooler packed with ice. Chain-of-custody (COC) forms were completed and accompanied the samples following collection, during transport by the courier, and at receipt by the analytical laboratory. The COC records are included in Appendix B.

Table 2 presents the sample analysis matrix. Samples analyzed for VOCs, SVOCs, TPH, total organic carbon (TOC), and bacteriological parameters were sent to Applied P & Ch Laboratory (APCL) of Chino, California. TPH fraction analyses (C5-C8 aromatic and aliphatic, C9-C12 aliphatic, C9-C10 aromatic, C11-C22 aromatic, and C19-C36 aliphatic) were also conducted for soil borings collected at depths of 22.5 to 23.0 feet bgs and 31.0 to 31.5 feet bgs at borings B01 and B02, respectively. Physical properties, such as soil porosity, density, and permeability were analyzed by PTS Laboratories, Inc. of Santa Fe Springs, California and TPH-fractionation analyses by gas chromatography and mass spectrometry was conducted by Test America of Nashville, Tennessee. The analytical results for this RI are presented in Table B-6 of Appendix B.

The chemical data presented in this report are validated and definitive. Laboratory Data Consultants, Inc. of Carlsbad, California performed the analytical data validation. The data validation was performed in accordance with guidelines set forth in the EPA Functional Guidelines (EPA 1994a, 1994b). The validation reports are presented in Appendix C.

4.4 INVESTIGATION-DERIVED WASTE

All investigation-derived waste (IDW) was collected, stored, analyzed, and disposed of according to guidelines identified in the Work Plan for the RI (Tetra Tech 2003). A total of 24 55-gallon drums were used to contain IDW: 12 drums for soil cuttings and 12 drums for decontamination water. A composite sample was collected from the drums containing soil cuttings and sent to APCL for analyses of VOCs, SVOCS, purgeable and extractable TPH, and reactivity, corrosiveness, and ignitability. A water sample from the decontamination water was also sent to APCL with the same analyses except for reactivity, corrosiveness, and ignitability. On April 7, 2004, the soil drums were sent to the Fort Irwin contaminated soil transfer facility and the drums containing decontamination water were sent to the on-site wastewater treatment facility.

5.0 NATURE AND EXTENT OF CONTAMINATION AND SOIL PARAMETER TESTING

The extent of contamination is discussed in relation to the source of TPH, former Tank 72. The highest TPH, VOC, and SVOC concentrations are present between a depth range of 21 to 36 feet bgs. The samples were collected below the footprint of former Tank 72 (borings B01 and B02) and coincide with the zone of TPH contamination defined in previous investigations (Tetra Tech 2003). TPH fractions detected in these samples were representative of Bunker C fuel oil (Alimi 2002). Compounds in samples collected from boring B03 were at low to non-detect concentrations. Cross-sections showing the subsurface impacted zone are presented in Figures 6a and 6b. The following sections discuss the analytical results for soil samples collected from soil borings B01, B02, and B03 during RI field activities.

5.1 TOTAL PETROLEUM HYDROCARBON CONTAMINATION

TPH was detected in all three boring locations installed during this RI investigation (Table 3). For the purpose of this RI report, total TPH is defined as the sum of TPH in the gasoline, diesel, and motor oil fractions. Boring B03, which is located north of the former Tank 72 excavation footprint (Figure 7a), contained low concentrations of total TPH at a depth of 10.5 feet bgs, and samples were non-detect at depths of 25.5 and 35.5 feet bgs. The highest concentrations of total TPH were detected in boring B01 (Figure 7a). Concentrations from depths of 22.5 to 36.5 feet bgs ranged from 14,106 to 24,900 mg/kg. With the exception of a total TPH concentration of 1,140 mg/kg at a depth of 56 feet bgs, additional samples collected to a depth of 66 feet bgs at this boring had low to non-detect TPH concentrations (Table 3).

Boring B02 was located near FTI72-94-10, which had fuel odor detected at 20 to 22 feet bgs during a previous investigation but did not have soil samples analyzed. This boring is located south of boring B01 in the footprint of the former Tank 72 excavation. Of the samples collected from 10.5 to 61.5 feet bgs, the ones collected at depths of 21 to 31.5 feet bgs had the highest total TPH concentrations, ranging from 11,600 to 20,333 mg/kg (Table 3). The majority of other samples were non-detect and the samples, which did have detections had a maximum total TPH concentration of 125 mg/kg.

For TPH detections in the borings, the highest concentrations were in the TPH-diesel range followed by the TPH-motor oil range, which is indicative of the heavier hydrocarbons associated with Bunker C fuel oil. TPH-gasoline concentrations were detected at or below 100 mg/kg in all of the samples collected from borings B01 and B02. TPH-gasoline was not detected in boring B03.

The samples that were analyzed for TPH fractionation were collected from a depth of 22.5 to 23 feet bgs at boring B01 and from a depth of 31.0 to 31.5 feet bgs at boring B02. Both samples had high total TPH concentrations (greater than 15,000 mg/kg). For the sample collected in boring B01, the highest TPH concentration was in the C9 to C18 aliphatic hydrocarbon range. The sample from boring B01 also had high concentrations in the C11 to C22 aromatic range and in the C9 to C12 aliphatic range. The sample collected from B02 had lower concentrations in each range compared to the sample collected from boring B01, with the exception of C9 to C12 aliphatics. The highest concentrations were in the C9 to C18 aliphatic and C11 to C22 aromatic range (Table 4).

5.2 VOLATILE ORGANIC COMPOUND CONTAMINATION

VOCs detected in borings B01 and B02 sampled during this investigation include the following: 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 4-methyl-2-pentanone, BTEX compounds, carbon disulfide, chlorobenzene, and chloroform (Appendix B). All of the VOCs listed above were detected in two or less samples with the exception of 1,2-dichlorobenzene, 1,4-dichlorobenzene, toluene, ethylbenzene, and total xylenes, which were detected in more than two samples (Table 5).

Of the BTEX compounds detected at borings B01 and B02, total xylenes had the highest concentrations. At boring B01, the total xylenes concentrations ranged from 1,900 to 6,000 µg/kg at depths of 22.5 to 31.5 feet bgs (Table 5). The samples in this depth range also contained the highest TPH concentrations detected in boring B01. Boring B02 contained total xylene concentrations ranging from 820 to 7,100 µg/kg at depths of 21 to 31.5 feet bgs. The samples collected at these depths also had the highest TPH concentrations (Figure 7b). Benzene was detected in only one of the samples collected from both borings at an estimated concentration of 1 µg/kg. Ethylbenzene and toluene were detected in a total of eight samples from the two borings at concentrations below 1,500 µg/kg. Both 1,2-dichlorobenzene and

1,4-dichlorobenzene were detected in samples containing the highest TPH concentrations. Concentrations of 1,2-dichlorobenzene ranged from 49 to 3,200 µg/kg at boring B01 and from 2 to 2,500 µg/kg in boring B02.

5.3 SEMIVOLATILE ORGANIC COMPOUND CONTAMINATION

SVOCs detected in borings B01, B02, and B03 include the following: 2-methylnaphthalene, acenaphthene, acetophenone, benzo(a)anthracene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene (Table 6). Most of the SVOCs were detected in the samples from borings B01 and B02 with the highest TPH concentrations. SVOC concentrations were detected at their highest concentrations at depths of 22.5 to 36.5 feet bgs and 21 to 31.5 feet bgs at borings B01 and B02, respectively. Of the SVOCs detected, 2-methylnaphthalene, naphthalene and phenanthrene, all PAHs associated with Bunker C fuel oil, had the highest concentrations at borings B01 and B02.

5.4 BACTERIOLOGICAL PARAMETERS

Two samples were collected from borings B01 and B02 for analysis of bacteriological parameters. Analysis of these parameters in conjunction with pH values were used to help establish whether biodegradation is occurring in the vadose zone. The sample from boring B01 was collected at a depth of 22.5 to 23 feet bgs and the sample from boring B02 was collected at a depth of 31 to 31.5 feet bgs. Total heterotrophic plate counts (TPC) were 900 and 200 colony forming units (cfu) measured on plate streaks for the samples collected at B01 and B02, respectively (Table 7). Based on these plate counts, there are not enough bacteria to indicate biodegradation is occurring in the vadose zone. TPC analyses are reported as number of cfu per gram of soil or per milliliter of water. Petroleum-contaminated soils have been found to have plate counts ranging from 10^4 to 10^6 cfu per gram (Hemming and Milke 1996). Soils with a cfu below 1,000 may indicate generally toxic conditions for soil microbes (Cookson 1995) or lack of appropriate substrates or amenable conditions conducive to growth of heterotrophic bacteria capable of biodegrading petroleum compounds. The pH values measured in these samples were 8.47 and 8.59 for borings B01 and B02, respectively. These values are amenable to conditions supporting in-situ biodegradation (7 to 9 pH units).

5.5 PHYSICAL PARAMETERS

Physical parameters were measured for use in the transport modeling of COPCs in the vadose zone. Physical parameter data for the sample collected at a depth of 65.5 to 66 feet bgs at boring B01 and for the sample collected at a depth of 61 to 61.5 feet bgs at boring B02 are presented in Table 7. Both of these samples were measured for total porosity, total pore fluid saturation, bulk density, intrinsic permeability, hydraulic conductivity, and TOC. All of the samples analyzed during the 2003 investigation (including the two mentioned above) were measured for moisture content and pH value.

The total porosity, 41.7 percent by volume, of the sample collected at a depth of 65.5 to 66 feet bgs at B01 was indicative of a silty sand. The soil sample had a moisture content of 7.5 percent by weight with a total pore fluid saturation of 33 percent of pore volume. The hydraulic conductivity of this sample, 7.93×10^{-5} centimeters per second also indicates a silty sand mix. This sample also had a low TOC content (681 mg/kg average). The other sample collected from B02 at depth of 61 to 61.5 feet bgs had a lower total porosity, 31 percent by volume, which is more indicative of a denser sediment. This sample also had higher moisture content of 12.7 percent by weight and a considerably higher total pore fluid saturation of 74 percent of pore volume. The hydraulic conductivity was also lower in this sample, 1.69×10^{-5} centimeters per second, indicative of more fines or compaction.

6.0 FATE AND TRANSPORT MODELING RESULTS AND DATA EVALUATION

Fate and transport analysis was conducted for hypothetical dissolved phase migration from the zone of contamination present in the vadose zone. The SESOIL fate and transport model was used to estimate the migration of compounds present in the vadose zone through dissolution into percolating groundwater. Mobilization of dissolved TPH contaminants was assumed to begin at the depth interval coinciding with the zone of contamination (40 feet bgs).

The following sections provide a description of the inputs and assumptions used to run the SESOIL fate and transport model, and the results from the model.

6.1 SESOIL FATE AND TRANSPORT MODEL INPUTS AND ASSUMPTIONS

Dissolved phase migration of compounds was estimated using the SESOIL model. A complete description of the SESOIL model is provided in the RI Workplan (Tetra Tech 2003). A list of the model input parameters is provided in Table 8. Appendix D presents the site-specific values for these parameters and chemical property data; and a detailed description of the assumptions used to select model input parameters and the actual execution of the model. The following input parameters and their underlying assumptions were entered into the SESOIL fate and transport model:

<u>Contamination Inputs and Assumptions</u>

- The depth of residual TPH contamination was set at 40 feet bgs based on the zone of contamination being defined by previous investigations and the current RI investigation.
- To adjust the model to be specific to the varying concentration of compounds in the subsurface, the unsaturated zone was represented by three soil layers of varying thickness. The layers were defined based on the lithology, TPH fractions detected in those zones, and other contaminant distributions (Appendix D). As a conservative assumption, the maximum concentration for each COPC detected within a layer was assigned to that layer as an initial condition. The layers are as follows:
    - Layer 1 – 0 to 10 feet bgs; lean clay; fill material used in the excavation of soil surrounding the former Tank 72.
    - Layer 2 – 10 to 40 feet bgs; sand and silty sand; TPH contamination resides in this zone.
    - Layer 3 – 40 to 220 feet bgs; sand and silty sand; zone extends to water table and initially does not contain any TPH contamination, therefore, the concentrations for all compounds were set to non-detect as an initial condition.

- The following compounds were selected for modeling based on frequency and magnitude of detections in samples collected during this investigation. Chemical properties for the compounds modeled are provided in Appendix D.

  - The following TPH fractions were modeled based on analyses:
    - C9 to C10 and C11 to C22 aromatics
    - C5 to C8, C9 to C12, C9 to C18, and C19 to C36 aliphatics
    - TPH-gasoline was represented as entirely consisting of C5 to C8 aliphatics
    - TPH-diesel was represented as entirely consisting of C9 to C10 aromatics (30 percent) and C9-C12 aliphatics (70 percent)
    - TPH-motor oil was represented as entirely consisting of C11 to C22 aromatics (30 percent) and C9 to C18, C19 to C36 aliphatics (70 percent).
  - VOCs: 1,2-dichlorobenzene, 1,4-dichlorobenzene, ethylbenzene, toluene, total xylenes
  - SVOCs: 2-methylnaphthalene, acenaphthene, acetophenone, benzo(a)anthracene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene

- Total xylenes were considered to be the most mobile compound associated with TPH that poses a threat to groundwater quality. Acetophenone, which is a more mobile compound, was also detected in the vadose zone; however, this SVOC was detected at a significantly lower concentration and is not representative of petroleum hydrocarbons. Because of their mobility and concentrations measured in the vadose, total xylenes were selected as the COPC for the sensitivity analysis.

- Biodegradation was not utilized as a factor in SESOIL model runs based on the relatively low cfu plate counts.

Physical Parameter Inputs and Assumptions

- A soil moisture content of 10 percent by volume (based on field data) was used as a value for infiltration past the depth coinciding with the bottom of the zone of contamination. The value was used in the model throughout the whole thickness of the vadose zone in order to assume a higher predicted moisture flux. The climate parameter data for the last 30 years were collected from the nearest meteorological station to Fort Irwin. The parameters were entered into statistically-based water balance equations (Eagleson 1978) to determine temporal changes in the soil moisture content. The value of 10 percent was used as a target to calibrate the hydrological cycle of the SESOIL model.

- Bulk density, intrinsic permeability, and TOC content of soils values for model runs were based on values measured in the samples collected in the field. During site investigation activities, samples were collected from a depth of 66.0 to 66.5 feet bgs at boring B01 and from a depth of 61 to 61.5 feet bgs at boring B02 were analyzed for soil physical parameters. Effective porosity was estimated based on total porosity results measured in field samples. These physical parameters were assumed to be constant throughout the entire vadose zone in the model runs. This assumption is a conservative one because cemented zones indicative of low permeability were encountered in B01 and B02 during drilling activities.

- The depth to groundwater was estimated to currently reside at 220 feet bgs to account for the rise in groundwater levels from the level measured in 1999 (232 feet bgs) The rise is attributed to decreased pumpage in the Irwin Basin and recharge from treated wastewater and irrigation activities. The rise in groundwater level was calculated using the increase from 1994 and 1999 groundwater level measurements at USGS monitoring well No. 14N/3E-32F3.

6.2 SESOIL FATE AND TRANSPORT MODEL RESULTS

The results of SESOIL modeling for individual analytes are presented in Appendix D. A summary of the results is provided below.

- None of the compounds were predicted to reach the water table in 300 years from the present time under current site conditions.
  - All TPH fractions were predicted to migrate to a depth less than 50 feet bgs in 300 years.
  - Total xylenes, which are considered to be the most mobile compounds associated with TPH with a potential to affect groundwater quality, were predicted to migrate to a depth of 100 feet bgs (Figure 8) without considering biodegradation as a factor. All other VOCs migrated to depths of less than 100 feet bgs in 300 years.
  - Acetophenone which was detected at estimated concentrations below the reporting limit in a total of three samples was predicted to migrate to a depth of 189 feet bgs. All other SVOCs detected were predicted to migrate to a depth of less than 50 feet bgs in 300 years.
- Model sensitivity to the input parameter changes was also evaluated. Total xylenes were chosen for the sensitivity analysis based on association with TPH and mobility in the vadose zone. The objective of the sensitivity analysis was to determine which parameters affect model outcomes the most. A depth of 60 feet bgs was chosen to model changes in peak concentrations based on its depth below the contamination zone and above the water table as well as the ease of modeling peak concentration results within the time frame allotted for the SESOIL model. In terms of plume arrival times, model outcome is most sensitive to the organic carbon content, which correlates to the soil sorption coefficient for the compound being modeled. TOC values were based on actual field samples collected at borings B01 and B02, so uncertainty with this parameter was minimized.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Of the three borings installed during this RI investigation, soil samples collected from borings B01 and B02 had the highest TPH concentrations. The samples with the highest TPH, VOC, and SVOC concentrations in these borings were measured at depths of 22.5 to 36.5 feet bgs and 21 to 31.5 feet bgs, respectively. These samples were within the zone of contamination, which extends to a depth of approximately 40 feet bgs based on the previous and the current investigations conducted at FTIR-27.

The SESOIL fate and transport model was run for all compounds detected during this investigation using conservative assumptions and actual values for site conditions. The SESOIL model predicted vertical migration of compounds based on infiltration and dissolution as the primary mechanism. Residual TPH contamination was predicted to be immobile at a depth of approximately 40 feet bgs. The results of modeling indicate that none of the TPH fractions or any of the other compounds detected will reach the water table in 300 years under current site conditions. Due to the presence of the asphalt concrete parking lot constructed at FTIR-27, the rate of infiltration will be significantly diminished further impeding the vertical migration of COPCs toward the water table. Evaluation of the model outputs demonstrates that the remaining soil contamination under the former Tank 72 poses no threat to groundwater quality. Based on the results of this investigation, no further action is recommended for FTIR-27.

Upon review of the recommendations presented in this Final Remedial Investigation Report for FTIR-27, DTSC and the California Regional Water Quality Control, Lahontan Region concurred with a no further action recommendation for this site. Documentation supporting concurrence by DTSC is provided in Appendix F.

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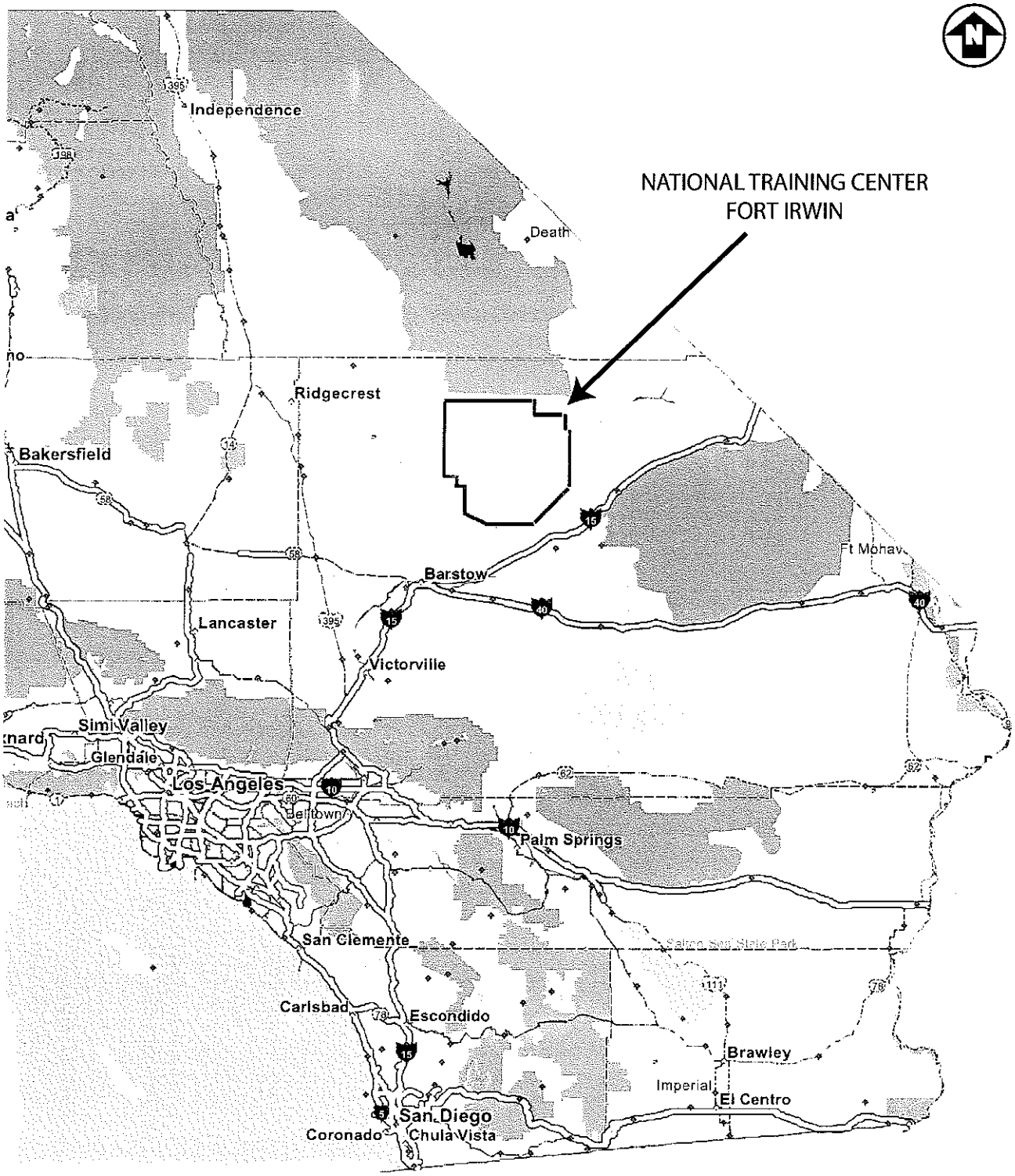


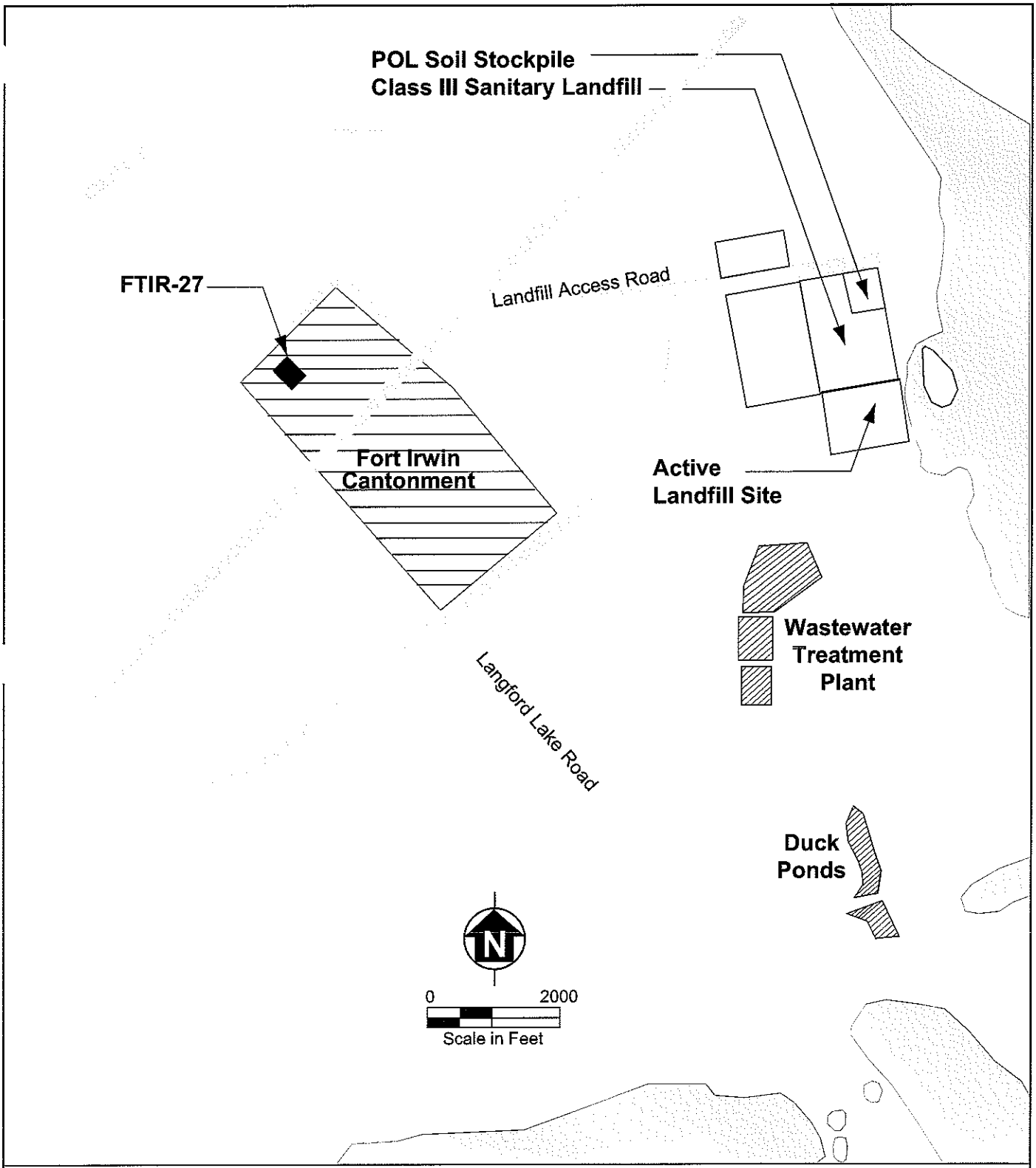
20 0 20 40

SCALE: 1" = 40 MILES

FIGURE 1

REGIONAL LOCATION MAP
NATIONAL TRAINING CENTER
FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.



Source: Adapted from Montgomery Watson 1995

Legend

- Bedrock
- Ft. Irwin Cantonment
- Sewage treatment plant and ponds

Note:
FTIR-27 = Fort Irwin Site 27

FIGURE 2

IR SITE LOCATION MAP
NATIONAL TRAINING CENTER
FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

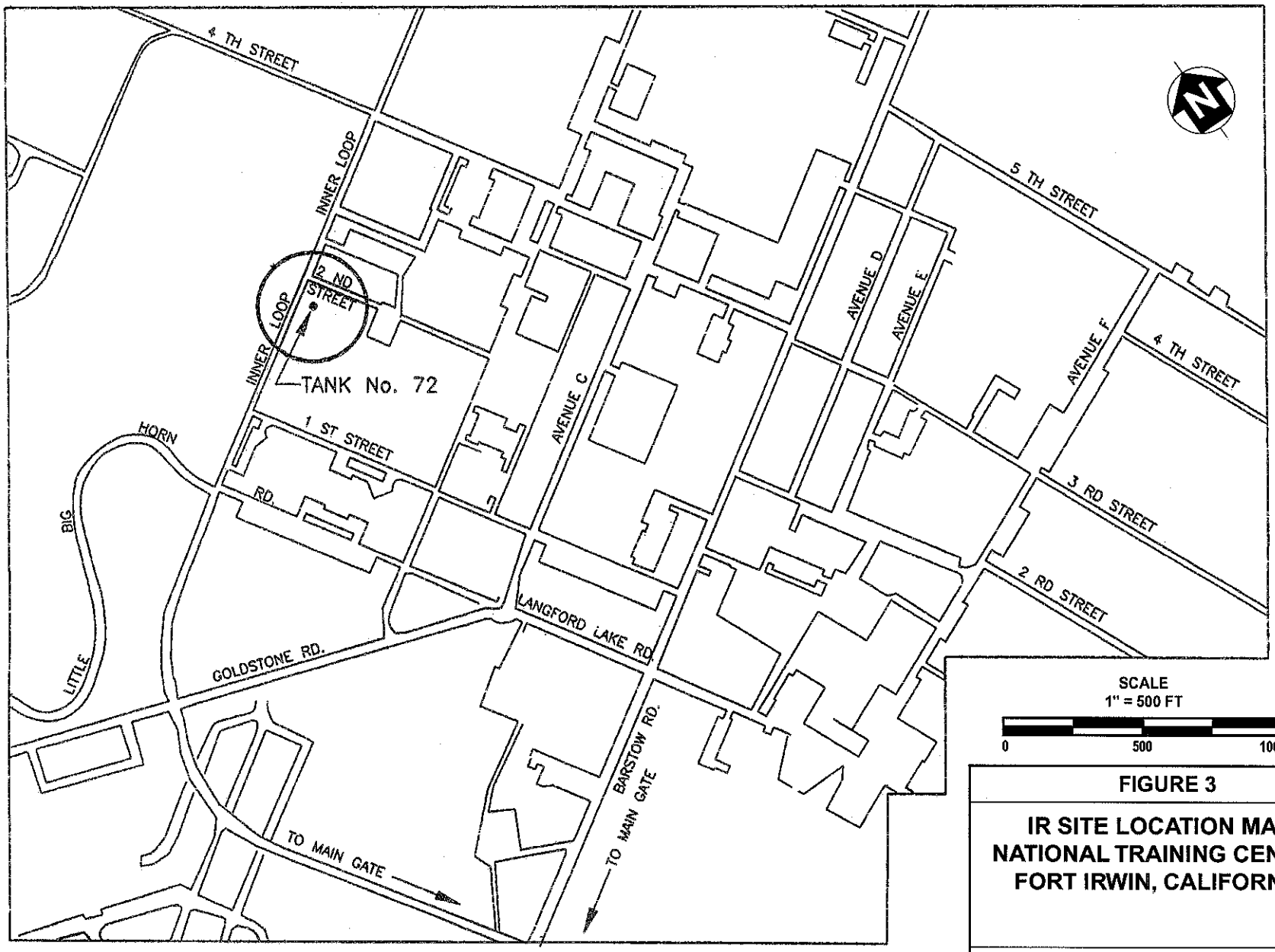
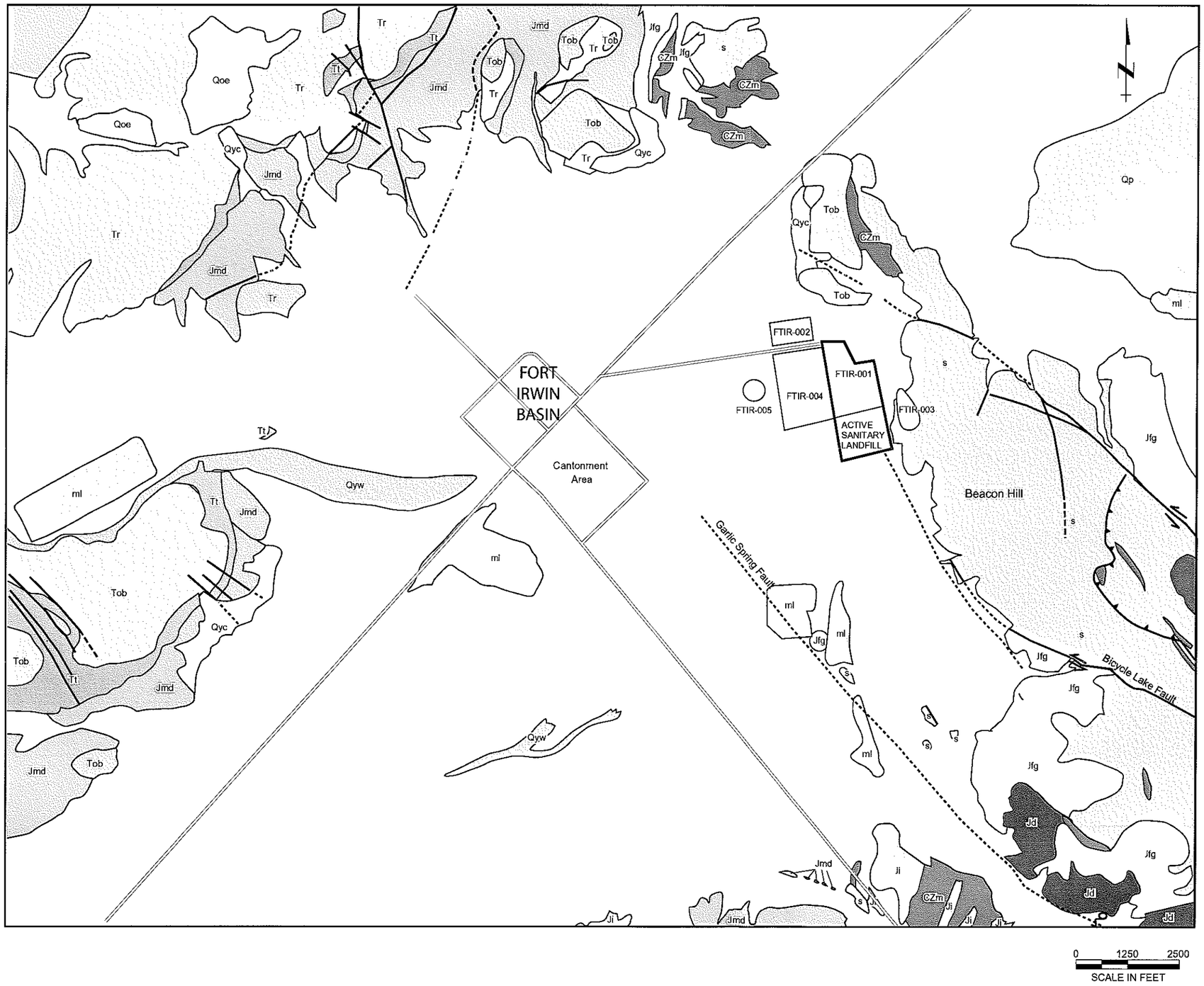


FIGURE 3

IR SITE LOCATION MAP
NATIONAL TRAINING CENTER
FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.



LEGEND:

Holocene

- ml - Land modified from human activities
- Qyw - Wash Deposits, sand and sandy gravel
- Qya Qia - Alluvial fan deposits, sand and gravel
- Qyc -Colluvial deposits gravel
- Qoe -Eolian Deposits, sand
- Qp -Playa Deposits clay and silt

Miocene

- Tob - Basalt and Andesite
- Tt - Tuff
- Tr - Rhyolite

Jurassic

- Jfg - Fine-grained Granitoid
- Ji - Intermediate Composition Igneous Rocks
- Jmd - Quartz Monzodiorite
- Jd - Hornblende Diorite

Cambrian to Proterozoic

- CZm - Marble
- s - Schist Gniess Amphibolite

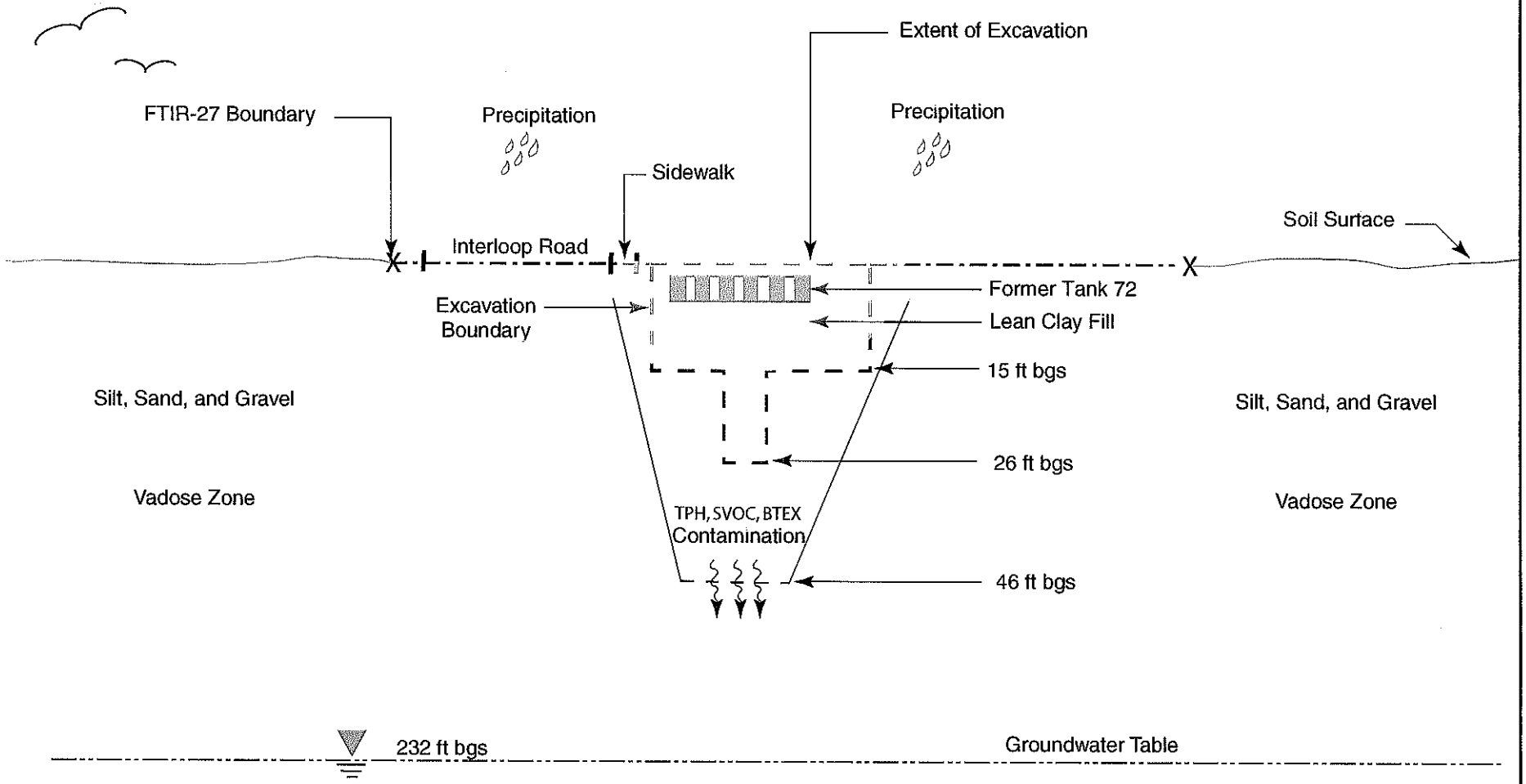
- Garlic Spring
- Fault (dashed where inferred)
- Thrust Fault
- Abandoned Landfill Sites

Source: Yount et al , 1994

FIGURE 4

GEOLOGIC MAP OF THE FORT IRWIN BASIN NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.



Note: Not to Scale

LEGEND

- Potentiometric surface approximately 232' bgs (Densmore and Londquist 2003)
- X←- -—X FTIR-27 boundary
- — — Excavation boundary
- | | Soil contamination
- Asphalt cover

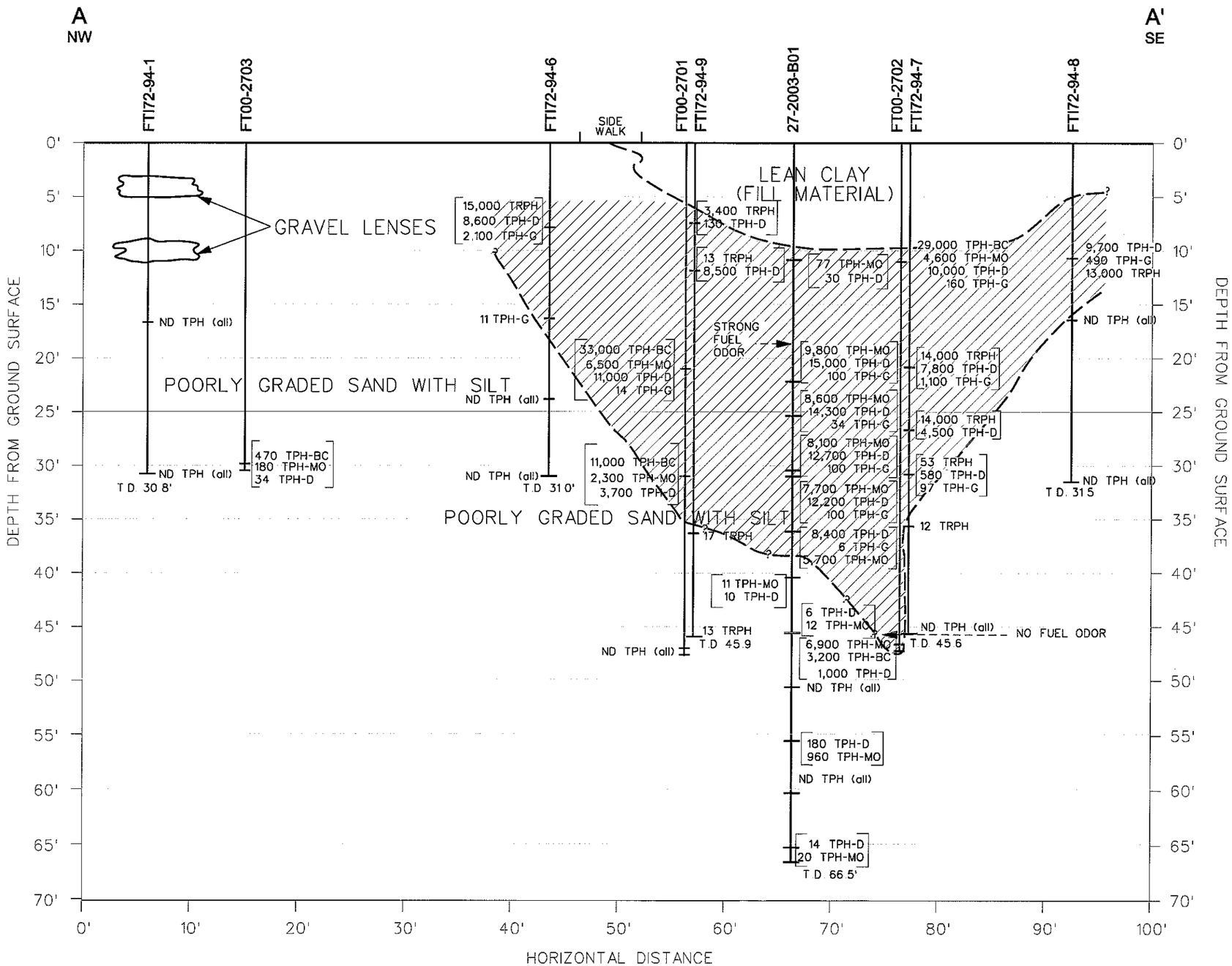
bgs	Below ground surface
ft	feet
FTIR-27	Fort Irwin Site 27
BTEX	Benzene, toluene, ethybenzene, and total xylenes
SVOC	Semivolatile organic compounds
TPH	Total petroleum hydrocarbon

FIGURE 5

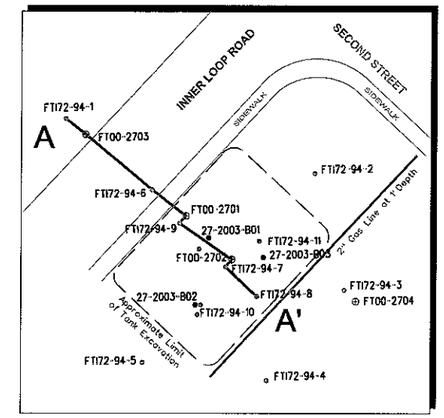
FTIR-27 CONCEPTUAL SITE MODEL NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

CROSS SECTION FROM A-A' OF SOIL TYPE AND TPH CONTAMINATION
FORMER SITE OF TANK No. 72. FORT IRWIN, CALIFORNIA



LOCATION MAP



LEGEND:

	APPROXIMATE EXTENT OF CONTAMINATION (QUERIED WHERE UNCERTAIN)
T.D.	TOTAL DEPTH
TPH (all)	ALL TPH CONSTITUENTS ARE NOT DETECTED FOR THIS SAMPLE INTERVAL
TPH-BC	TOTAL PETROLEUM HYDROCARBONS - BUNKER C (mg/kg)
TPH-D	TOTAL PETROLEUM HYDROCARBONS - DIESEL (mg/kg)
TPH-G	TOTAL PETROLEUM HYDROCARBONS - GASOLINE (mg/kg)
TPH-MO	TOTAL PETROLEUM HYDROCARBONS - MOTOR OIL (mg/kg)
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (mg/kg)
ND	NOT DETECTED
mg/kg	MILLIGRAM PER KILOGRAM
FTIR-27	FORT IRWIN SITE 27

Notes:
1 Soil primarily poorly graded sand with silt with thin (discontinuous) lenses of poorly graded sand, silty sand and silty sand with gravel
2. Only detected concentrations for TPH constituents are presented on the figure.
3 Borings in red were installed during the 2003 Remedial Investigation

5 0 5 10
SCALE: 1" = 10'

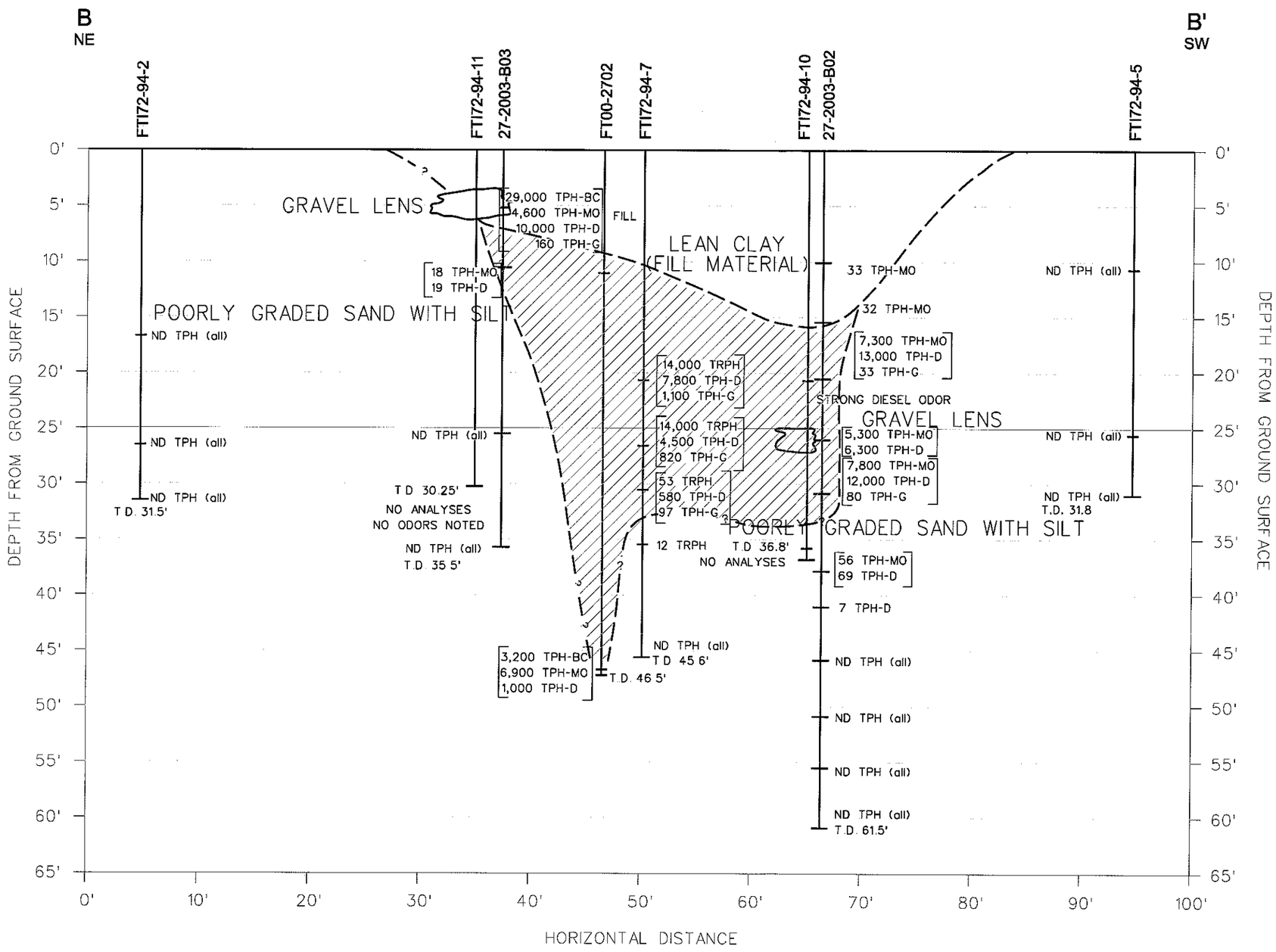
FIGURE 6a

FTIR-27 CROSS-SECTION A-A' OF SOIL TYPE AND TPH CONTAMINATION
NATIONAL TRAINING CENTER
FORT IRWIN, CALIFORNIA

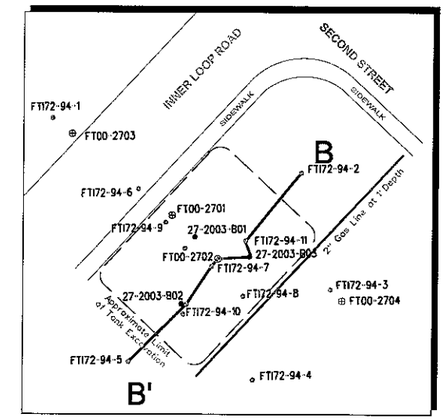
Tetra Tech EM Inc.

TIEM-SF AZ 3/23/2005 V:\Misc_GIS\Fort_Irwin\Projects\Work_Plan\Fig-5a_Xsect_A-A'.dgn

CROSS SECTION FROM B-B' OF SOIL TYPE AND TPH CONTAMINATION
FORMER SITE OF TANK No. 72. FORT IRWIN, CALIFORNIA



LOCATION MAP



LEGEND:

	APPROXIMATE EXTENT OF CONTAMINATION (QUERIED WHERE UNCERTAIN)
T.D	TOTAL DEPTH
TPH (all)	ALL TPH CONSTITUENTS ARE NOT DETECTED FOR THIS SAMPLE INTERVAL
TPH-BC	TOTAL PETROLEUM HYDROCARBONS - BUNKER C (mg/kg)
TPH-D	TOTAL PETROLEUM HYDROCARBONS - DIESEL (mg/kg)
TPH-G	TOTAL PETROLEUM HYDROCARBONS - GASOLINE (mg/kg)
TPH-MO	TOTAL PETROLEUM HYDROCARBONS - MOTOR OIL (mg/kg)
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (mg/kg)
ND	NOT DETECTED
mg/kg	MILLIGRAM PER KILOGRAM
FTIR-27	FORT IRWIN SITE 27

Notes:
1 Soil primarily poorly graded sand with silt with thin (discontinuous) lenses of poorly graded sand, silty sand, and silty sand with gravel
2. Only detected concentrations for TPH constituents are presented on the figure.
3 Borings in red were installed during the 2003 Remedial Investigation

5 0 5 10
SCALE: 1" = 10'

FIGURE 6b

FTIR-27 CROSS-SECTION B-B' OF SOIL TYPE AND TPH CONTAMINATION NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

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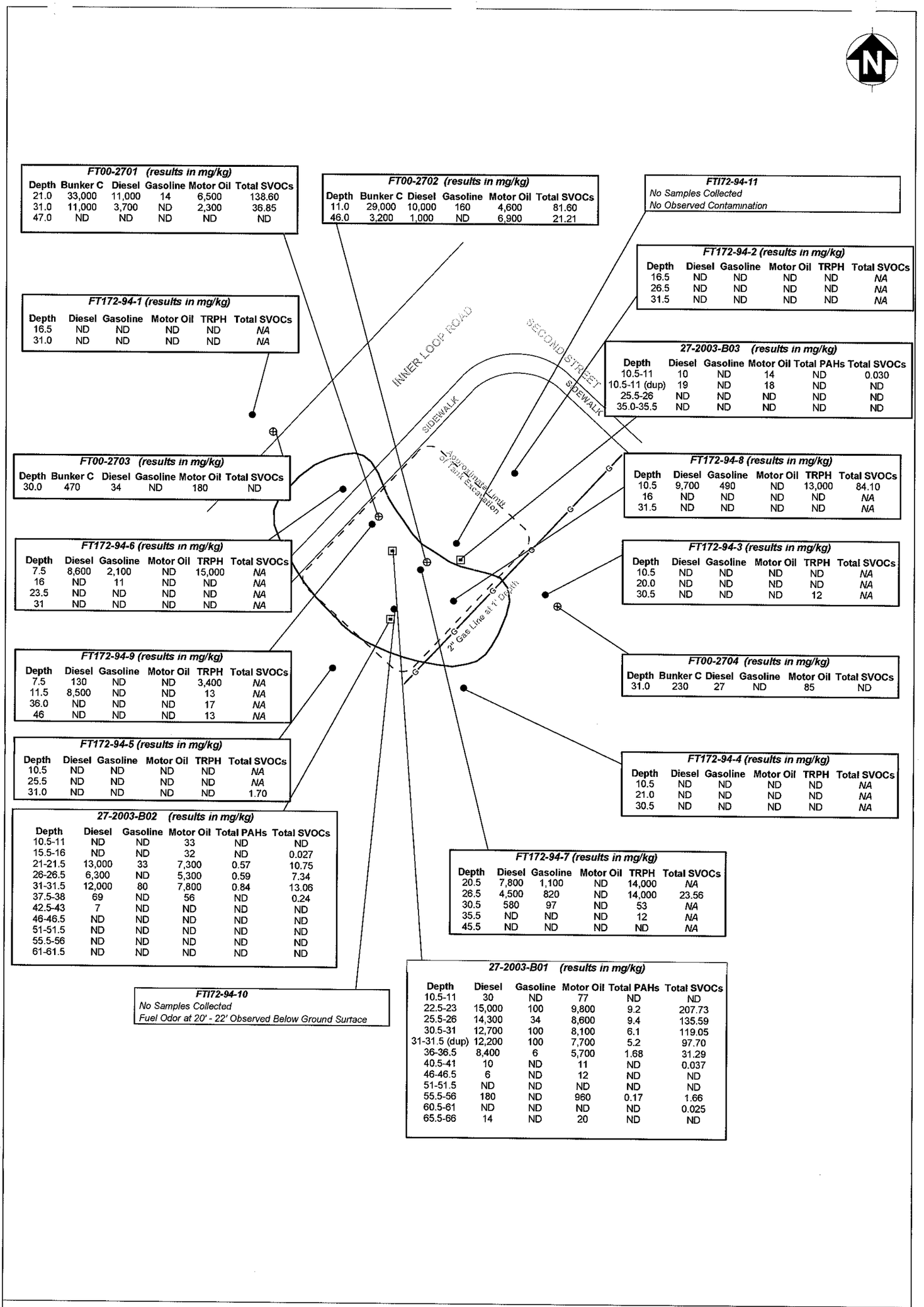


FT00-2701 (results in mg/kg)

Depth	Bunker C	Diesel	Gasoline	Motor Oil	Total SVOCs
21.0	33,000	11,000	14	6,500	138.60
31.0	11,000	3,700	ND	2,300	36.85
47.0	ND	ND	ND	ND	ND

FT00-2702 (results in mg/kg)

Depth	Bunker C	Diesel	Gasoline	Motor Oil	Total SVOCs
11.0	29,000	10,000	160	4,600	81.60
46.0	3,200	1,000	ND	6,900	21.21

FTI72-94-11

No Samples Collected
No Observed Contamination

FT172-94-2 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
16.5	ND	ND	ND	ND	*NA*
26.5	ND	ND	ND	ND	*NA*
31.5	ND	ND	ND	ND	*NA*

FT172-94-1 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
16.5	ND	ND	ND	ND	*NA*
31.0	ND	ND	ND	ND	*NA*

27-2003-B03 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	Total PAHs	Total SVOCs
10.5-11	10	ND	14	ND	0.030
10.5-11 (dup)	19	ND	18	ND	ND
25.5-26	ND	ND	ND	ND	ND
35.0-35.5	ND	ND	ND	ND	ND

FT00-2703 (results in mg/kg)

Depth	Bunker C	Diesel	Gasoline	Motor Oil	Total SVOCs
30.0	470	34	ND	180	ND

FT172-94-8 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
10.5	9,700	490	ND	13,000	84.10
16	ND	ND	ND	ND	*NA*
31.5	ND	ND	ND	ND	*NA*

FT172-94-6 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
7.5	8,600	2,100	ND	15,000	*NA*
16	ND	11	ND	ND	*NA*
23.5	ND	ND	ND	ND	*NA*
31	ND	ND	ND	ND	*NA*

FT172-94-3 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
10.5	ND	ND	ND	ND	*NA*
20.0	ND	ND	ND	ND	*NA*
30.5	ND	ND	ND	12	*NA*

FT172-94-9 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
7.5	130	ND	ND	3,400	*NA*
11.5	8,500	ND	ND	13	*NA*
36.0	ND	ND	ND	17	*NA*
46	ND	ND	ND	13	*NA*

FT00-2704 (results in mg/kg)

Depth	Bunker C	Diesel	Gasoline	Motor Oil	Total SVOCs
31.0	230	27	ND	85	ND

FT172-94-5 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
10.5	ND	ND	ND	ND	*NA*
25.5	ND	ND	ND	ND	*NA*
31.0	ND	ND	ND	ND	1.70

FT172-94-4 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
10.5	ND	ND	ND	ND	*NA*
21.0	ND	ND	ND	ND	*NA*
30.5	ND	ND	ND	ND	*NA*

27-2003-B02 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	Total PAHs	Total SVOCs
10.5-11	ND	ND	33	ND	ND
15.5-16	ND	ND	32	ND	0.027
21-21.5	13,000	33	7,300	0.57	10.75
26-26.5	6,300	ND	5,300	0.59	7.34
31-31.5	12,000	80	7,800	0.84	13.06
37.5-38	69	ND	56	ND	0.24
42.5-43	7	ND	ND	ND	ND
46-46.5	ND	ND	ND	ND	ND
51-51.5	ND	ND	ND	ND	ND
55.5-56	ND	ND	ND	ND	ND
61-61.5	ND	ND	ND	ND	ND

FT172-94-7 (results in mg/kg)

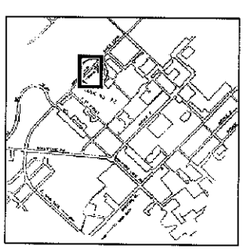
Depth	Diesel	Gasoline	Motor Oil	TRPH	Total SVOCs
20.5	7,800	1,100	ND	14,000	*NA*
26.5	4,500	820	ND	14,000	23.56
30.5	580	97	ND	53	*NA*
35.5	ND	ND	ND	12	*NA*
45.5	ND	ND	ND	ND	*NA*

FTI72-94-10

No Samples Collected
Fuel Odor at 20' - 22' Observed Below Ground Surface

27-2003-B01 (results in mg/kg)

Depth	Diesel	Gasoline	Motor Oil	Total PAHs	Total SVOCs
10.5-11	30	ND	77	ND	ND
22.5-23	15,000	100	9,800	9.2	207.73
25.5-26	14,300	34	8,600	9.4	135.59
30.5-31	12,700	100	8,100	6.1	119.05
31-31.5 (dup)	12,200	100	7,700	5.2	97.70
36-36.5	8,400	6	5,700	1.68	31.29
40.5-41	10	ND	11	ND	0.037
46-46.5	6	ND	12	ND	ND
51-51.5	ND	ND	ND	ND	ND
55.5-56	180	ND	960	0.17	1.66
60.5-61	ND	ND	ND	ND	0.025
65.5-66	14	ND	20	ND	ND



LEGEND

- ● 1994 Exploration Location
- ⊕ 2000 Exploration Location
- ▣ 2003 Sample Location
- —— Extent of Contamination

Notes:
Depth in feet below ground surface

dup	Duplicate
mg/kg	milligram per kilogram
NA	Not analyzed
ND	Not detected
PAH	Polynuclear Aromatic Hydrocarbon
SVOC	Semivolatile Organic Compound
TPH	Total Petroleum Hydrocarbon
TRPH	Total Recoverable Petroleum Hydrocarbon
FTIR-27	Fort Irwin Site 27

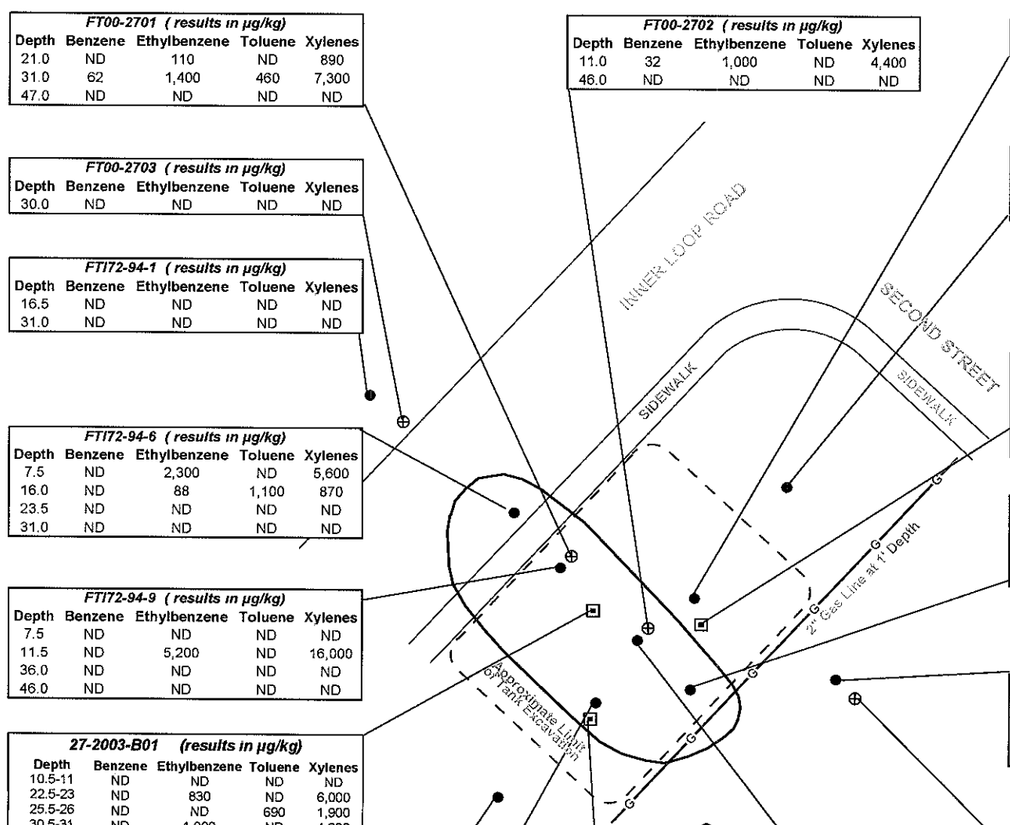
30 0 30
Feet

FIGURE 7a

FTIR-27 POST-REMOVAL SITE INVESTIGATION DATA TPH, TOTAL PAHs, AND TOTAL SVOCs IN SOIL NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

2004-07-19 V:\Misc_GIS\Fort_Irwin\Projects\Work_Plan\Fig_7a_TPH.mxd TtEMI-SF Michelle Angeles



FT00-2701 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
21.0	ND	110	ND	890
31.0	62	1,400	460	7,300
47.0	ND	ND	ND	ND

FT00-2702 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
11.0	32	1,000	ND	4,400
46.0	ND	ND	ND	ND

FTI72-94-11

No Samples Collected

FT00-2703 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
30.0	ND	ND	ND	ND

FTI72-94-2 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
16.5	ND	ND	ND	ND
26.5	ND	ND	ND	ND

FTI72-94-1 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
16.5	ND	ND	ND	ND
31.0	ND	ND	ND	ND

27-2003-B03 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
10.5-11	NA	NA	NA	NA
10.5-11 (dup)	NA	NA	NA	NA
25.5-26	NA	NA	NA	NA
35.0-35.5	NA	NA	NA	NA

FTI72-94-6 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
7.5	ND	2,300	ND	5,600
16.0	ND	88	1,100	870
23.5	ND	ND	ND	ND
31.0	ND	ND	ND	ND

FTI72-94-8 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
10.5	ND	800	ND	2,500
16.0	ND	ND	ND	ND
31.5	ND	ND	ND	ND

FTI72-94-9 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
7.5	ND	ND	ND	ND
11.5	ND	5,200	ND	16,000
36.0	ND	ND	ND	ND
46.0	ND	ND	ND	ND

FTI72-94-3 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
10.5	ND	ND	ND	ND
20.5	ND	ND	ND	ND
30.5	ND	ND	ND	ND

27-2003-B01 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
10.5-11	ND	ND	ND	ND
22.5-23	ND	830	ND	6,000
25.5-26	ND	ND	690	1,900
30.5-31	ND	1,000	ND	4,900
31-31.5 (dup)	ND	1,100	ND	5,600
36-36.5	1	40	ND	140
40.5-41	ND	ND	ND	ND
46-46.5	ND	ND	ND	ND
51-51.5	ND	ND	ND	ND
55.5-56	ND	ND	ND	ND
60.5-61	ND	ND	ND	ND
65.5-66	ND	ND	ND	ND

FT00-2704 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
31.0	ND	ND	ND	ND

FTI72-94-5 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
10.5	ND	ND	ND	ND
25.5	ND	ND	ND	ND
31.0	ND	ND	ND	ND

FTI72-94-7 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
20.5	ND	1,600	ND	9,100
26.5	ND	740	ND	4,200
30.5	ND	25	ND	290
35.5	ND	ND	ND	ND
45.5	ND	ND	ND	ND

FTI72-94-10

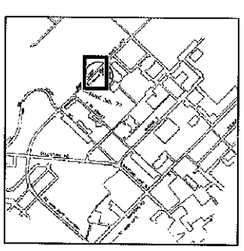
No Samples Collected

27-2003-B02 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
10.5-11	ND	ND	ND	ND
15.5-6	ND	ND	ND	ND
21-21.5	ND	ND	320	1,300
26-26.5	ND	ND	300	820
31-31.5	ND	1,400	ND	7,100
37.5-38	ND	ND	ND	ND
42.5-43	ND	ND	ND	ND
46-46.5	ND	ND	ND	ND
51-51.5	ND	ND	ND	ND
55.5-56	ND	ND	ND	ND
61-61.5	ND	ND	ND	ND

FTI72-94-4 (results in µg/kg)

Depth	Benzene	Ethylbenzene	Toluene	Xylenes
10.5	ND	ND	ND	ND
21.0	ND	ND	ND	ND
30.5	ND	ND	ND	ND



LEGEND

- ● 1994 Exploration Location
- ⊕ 2000 Exploration Location
- ▣ 2003 Sample Location
- —— Extent of Contamination

Notes:
Depth in feet below ground surface

BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
dup	Duplicate
µg/kg	Microgram per kilogram
NA	Not Analyzed
ND	Not detected
FTIR-27	Fort Irwin Site 27

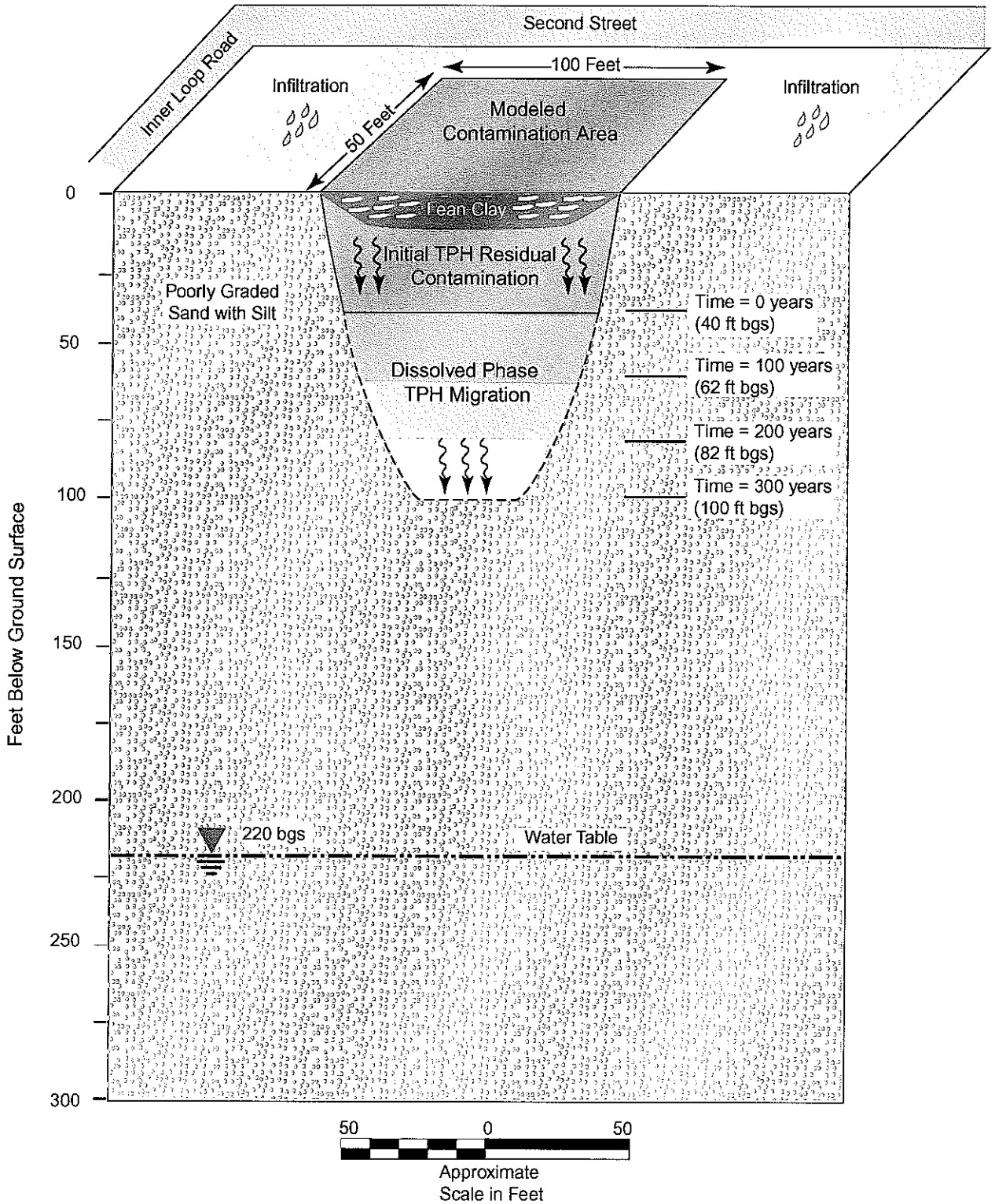
30 0 30
Feet

FIGURE 7b

FTIR-27 POST-REMOVAL SITE INVESTIGATION DATA BTEX IN SOIL NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

2004-1-16 V:\Misc_GIS\Fort_Irwin\Projects\Work_Plan\Fig_7b_BTEX.mxd TIEMI-SF kevin.ernst



Notes:

bgs Below ground surface

ft^2 Square feet

FTIR-27 Fort Irwin Site 27

TPH Total petroleum hydrocarbon

Migration based on total xylenes

Model assumes biodegradation is not occurring

Model assumes a contamination area of 5,000 ft^2

FIGURE 8

FTIR-27SCHEMATIC OF SESOIL MODEL RESULTS NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

TABLES

TABLE 1

DATA QUALITY OBJECTIVES PROCESS FOR
INVESTIGATING TPH CONTAMINATION AT FTIR-27
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

STEP 1 State the Problem	STEP 2 Identify the Decisions	STEP 3 Identify the Inputs to the Decisions	STEP 4 Define Study Boundaries	STEP 5 Develop Decision Rules	STEP 6 Specify Tolerable Limits on Errors	STEP 7 Optimize Sampling Design
Investigation of Total Petroleum Hydrocarbon (TPH) Contamination in Soil at FTIR-27: TPH contamination has been detected in soil at the location of a former a concrete vault that reportedly contained Bunker C fuel oil at FTIR-27. Depth to groundwater is assumed to be approximately 244 feet below ground surface (bgs) Maximum depth of TPH contamination is thought to be no greater than 80 feet bgs based on previous data collected. **(1)** Although there are existing data characterizing the TPH soil contamination at FTIR-27, the vertical extent of the contaminated soil beneath the former tank is not known. Additional data is also required to characterize the contamination at a boring location where TPH was identified, but no samples were analyzed. **(2)** Insufficient data exist to prepare a fate and transport model to evaluate whether groundwater at FTIR-27 has been contaminated by TPH constituents that have migrated from the TPH-contaminated soils. **(3)** No data exist to determine if the TPH contamination is biodegrading	**(1)** Will installation and sampling of two soil borings provide sufficient data to determine the vertical extent of the contaminated soil beneath the former tank and to characterize the contamination at a boring location where TPH was identified, but no samples were analyzed? **(2)** Do results of fate and transport model show potential to probable risk to groundwater at the site? **(3)** Is biodegradation of the TPH contamination occurring?	Existing lithologic, geologic, hydrogeologic, and chemical data from existing soil boring locations. Lithologic, geotechnical, and chemical data from proposed soil boring locations. Results from the Seasonal Soil Compartment Model (SESOIL) fate and transport model. Risk-based screening levels (RBSL) for specific chemicals in groundwater Conceptual site model (Figure 5). Inputs to the SESOIL fate and transport model including various model-defined, literature-defined, and field-determined data	The lateral extent of the study area will consist of the FTIR-27 site boundary The vertical boundary will range from the ground surface to approximately 80 feet bgs. The temporal boundary for all tasks under this investigation of FTIR-27 will extend approximately 2 weeks during June or July 2004. Analysis of samples, data validation, and evaluation of analytical results, along with conducting fate and transport modeling and writing the report will continue until October 2004	**(1a)** If installation and sampling of two new soil borings provides sufficient data to (1) determine the vertical extent of TPH contamination and characterize the contamination at a boring location where TPH was identified, but no samples were analyzed and (2) determine the physical characteristics of the soil, then fate and transport modeling will be performed using the site-specific data to evaluate the potential adverse effects on groundwater quality as a result of the vertical migration of constituents from TPH-contaminated soils **(1b)** If installation and sampling of two new soil borings does not provide sufficient data to (1) determine the vertical extent of TPH contamination and characterize the contamination at a boring location where TPH was identified, but no samples were analyzed and (2) determine the physical characteristics of the soil, then fate and transport modeling will be performed using available data and "best estimates" to evaluate the potential adverse effects on groundwater quality as a result of the vertical migration of constituents from TPH-contaminated soils. **(2a)** If the results of fate and transport modeling indicate there may be a substantial risk to groundwater quality at the site, remedial actions will be conducted in accordance with the Corrective Action Plan (U S Army Corps of Engineers [USACE] 1995). **(2b)** If the results of fate and transport modeling indicate there is little to no risk to groundwater quality at the site, then no further action will occur at the site **(3a)** Bacteriological data will be used as a qualitative indicator of site conditions. If the bacteriological data from soils within the contamination zone indicate that significant concentrations of TPH-degrading bacteria are present, it will be assumed that biodegradation of the contamination is occurring and the fate and transport model will be run using first-order biodegradation decay rate constants **(3b)** If the bacteriological data from soils within the contamination zone indicate that significant concentrations of TPH-degrading bacteria are not present, it will be assumed that biodegradation of the contamination is not occurring and the fate and transport model will not be run with biodegradation decay rate constants.	Selection of sampling locations, soil sampling design, and the analytical suite of analyses is based on historical data from the site; therefore, selection of boring locations and sampling depths is judgmental, rather than probability-based. Fate and transport modeling will include a sensitivity analysis to evaluate the uncertainty of input parameter values Measurement quality objectives (MQO) specify the performance criteria for laboratory analysis of samples and are summarized in Section 6.0 of the work plan.	As noted in Step 6, sampling locations were selected based on existing data and professional judgment. Soil boring locations and maximum boring depths were based on the goal to determine the vertical extent of TPH contamination and to characterize the contamination at a previous location where contamination was observed, but no samples were analyzed. Samples will be collected from each boring at 5-foot intervals starting at 10 feet bgs; however, only 5 samples from each borehole location will be submitted for analysis. Samples for chemical analysis will be chosen to provide better definition of the TPH contamination zone. The deepest sample from each borehole also will be analyzed. The rationale for selection of samples to be submitted for chemical and geotechnical analysis is presented in Section 5.0 Required reporting limits will be compared with appropriate RBSLs, which in turn will be based on the conceptual site model (Figure 5)

Source:
USACE. 1995. "Draft Corrective Action Plan, Tank 72, Fort Irwin, Barstow, California." March 9.

TABLE 2

SAMPLE ANALYSIS MATRIX
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Point Location	Field ID	Type	Sampling Date	Depth (ft bgs)	Matrix	VOC	Purgeable TPH	Extractable TPH	SVOC	Bacteriological	TPH Fractionation	TOC	Percent Moisture	Bulk Density	Soil Porosity	Permeability	RCI
094-FTIR027-001	27-2003-B01	27-2003-B01-22.5-23.0	Field Sample	11/19/03	22.5 to 23.0	Soil	X	X	X	X	X	X						
094-FTIR027-002	27-2003-B01	27-2003-B01-30.5-31.0	Field Sample	11/19/03	30.5 to 31.0	Soil	X	X	X	X								
094-FTIR027-003	27-2003-B01	27-2003-B01-40.5-41.0	Field Sample	11/19/03	40.5 to 41.0	Soil	X	X	X	X								
094-FTIR027-004	27-2003-B01	27-2003-B01-31-31.5-Dup	Field Sample	11/19/03	31.0 to 31.5	Soil	X	X	X	X								
094-FTIR027-005	27-2003-B01	27-2003-B01-46.0-46.5	Field Sample	11/19/03	46.0 to 46.5	Soil	X	X	X	X								
094-FTIR027-006	27-2003-B01	27-2003-B01-65.0-66.0	Field Sample	11/19/03	65.0 to 66.0	Soil	X	X	X	X			X	X	X	X	X	
094-FTIR027-007	27-2003-B02	27-2003-B02-21.0-21.5	Field Sample	11/20/03	21.0 to 21.5	Soil	X	X	X	X								
094-FTIR027-008	27-2003-B02	27-2003-B02-26.0-26.5	Field Sample	11/20/03	26.0 to 26.5	Soil	X	X	X	X								
094-FTIR027-010	27-2003-B02	27-2003-B02-31.0-31.5	Field Sample	11/20/03	31.0 to 31.5	Soil	X	X	X	X	X	X						
094-FTIR027-011	27-2003-B02	27-2003-B02-37.5-38.0	Field Sample	11/20/03	37.5 to 38.0	Soil	X	X	X	X								
094-FTIR027-012	27-2003-B02	27-2003-B02-61.0-61.5	Field Sample	11/20/03	61.0 to 61.5	Soil	X	X	X	X			X	X	X	X	X	
094-FTIR027-018	27-2003-IDW1	Soil Cuttings Composite	IDW Profiling	11/20/03	NA	Soil	X	X	X	X								X
094-FTIR027-019	27-2003-IDW2	Decon Water	IDW Profiling	11/20/03	NA	Water	X	X	X	X								
094-FTIR027-020	27-2003-TB1	Trip Blank 1	Field QC	11/19/03	NA	Water	X	X										
094-FTIR027-021	27-2003-TB2	Trip Blank 2	Field QC	11/20/03	NA	Water	X	X										
094-FTIR027-022	27-2003-FB1	Field Blank 1	Field QC	11/20/03	NA	Water	X	X	X	X			X					
094-FTIR027-023	27-2003-ER1	Equipment Rinsate 1	Field QC	11/19/03	NA	Water	X	X	X	X			X					
094-FTIR027-024	27-2003-ER2	Equipment Rinsate 2	Field QC	11/20/03	NA	Water	X	X	X	X			X					
094-FTIR027-025	27-2003-B01	27-2003-B01-10.5-11.0	Field Sample	11/19/03	10.5 to 11.0	Soil	X	X	X	X								
094-FTIR027-026	27-2003-B01	27-2003-B01-36.0-36.5	Field Sample	11/19/03	36.0 to 36.5	Soil	X	X	X	X								

TABLE 3

TOTAL PETROLEUM HYDROCARBON RESULTS
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Point Location	Top Depth (ft bgs)	Bottom Depth (ft bgs)	TPH-gasoline (mg/kg)	TPH-diesel (mg/kg)	TPH-motor oil (mg/kg)	Total TPH (mg/kg)
27-2003-B01	10.5	11	ND	**30**	**77**	**107**
27-2003-B01	22.5	23	**100 J-**	**15,000**	**9,800**	**24,900**
27-2003-B01	25.5	26	**34**	**14,300**	**8,600**	**22,934**
27-2003-B01	30.5	31	**100 J-**	**12,700**	**8,100**	**20,900**
27-2003-B01	31*	31.5	**100 J-**	**12,200**	**7,700**	**20,000**
27-2003-B01	36	36.5	**6**	**8,400**	**5,700**	**14,106**
27-2003-B01	40.5	41	ND	**10 J**	**11 J**	**21**
27-2003-B01	46	46.5	ND	**6 J**	**12**	**18**
27-2003-B01	51	51.5	ND	ND	ND	ND
27-2003-B01	55.5	56	ND	**180**	**960**	**1,140**
27-2003-B01	60.5	61	ND	ND	ND	ND
27-2003-B01	65.5	66	ND	**14**	**20**	**34**
27-2003-B02	10.5	11	ND	ND	**33**	**33**
27-2003-B02	15.5	16	ND	ND	**32**	**32**
27-2003-B02	21	21.5	**33 J**	**13,000**	**7,300**	**20,333**
27-2003-B02	26	26.5	ND	**6,300**	**5,300**	**11,600**
27-2003-B02	31	31.5	**80 J+**	**12,000**	**7,800**	**19,880**
27-2003-B02	37.5	38	ND	**69**	**56**	**125**
27-2003-B02	42.5	43	ND	**7 J**	ND	**7**
27-2003-B02	46	46.5	ND	ND	ND	ND
27-2003-B02	51	51.5	ND	ND	ND	ND
27-2003-B02	55.5	56	ND	ND	ND	ND
27-2003-B02	61	61.5	ND	ND	ND	ND
27-2003-B03	10.5	11	ND	**10 J**	**14**	**24**
27-2003-B03	10.5*	11	ND	**19**	**18**	**37**
27-2003-B03	25.5	26	ND	ND	ND	ND
27-2003-B03	35	35.5	ND	ND	ND	ND

Notes: Bold indicates sample was detected

Qualifiers:

J+ Estimated concentration in the higher hydrocarbon end range

J- Estimated concentration in the lower hydrocarbon end range

J Estimated concentration

* Duplicate sample

bgs Below ground surface

ft Feet

mg/kg Milligram per kilogram

ND Not detected

TPH Total petroleum hydrocarbons

TABLE 4

TOTAL PETROLEUM HYDROCARBON FRACTIONATION RESULTS
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Analyte	Method	Units	27-2003-B01 (22.5-23.0 ft bgs)	Percentage of Total TPH	27-2003-B02 (31.0-31.5 ft bgs)	Percentage of Total TPH
C5-C8 Aliphatics	VPH	mg/kg	40.3	0.6	21.2	1.5
C9-C10 Aromatics	VPH	mg/kg	552	7.9	188	13.5
C9-C12 Aliphatics	VPH	mg/kg	1,050	15.1	446	32.0
C11-C22 Aromatics	EPH	mg/kg	1,670	24.0	159	11.4
C19-C36 Aliphatics	EPH	mg/kg	1,080	15.5	216	15.5
C9-C18 Aliphatics	EPH	mg/kg	2,570	36.9	364	26.1

Notes:

bgs Below ground surface
EPH Extractable petroleum hydrocarbons
ft Feet
mg/kg Milligram per kilogram
TPH Total petroleum hydrocarbons
VPH Volatile petroleum hydrocarbons

TABLE 5

VOLATILE ORGANIC COMPOUND RESULTS
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Point Location	Top Depth (ft bgs)	Bottom Depth (ft bgs)	1,2-Dichlorobenzene (µg/kg)	1,3-Dichlorobenzene (µg/kg)	1,4-Dichlorobenzene (µg/kg)	4-Methyl-2-pentanone (MIBK) (µg/kg)	Carbon disulfide (µg/kg)	Chlorobenzene (µg/kg)	Chloroform (µg/kg)	Benzene (µg/kg)	Ethylbenzene (µg/kg)	Toluene (µg/kg)	Total xylenes (µg/kg)
27-2003-B01	10.5	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	22.5	23	**2,600 J**	ND	**1,200 J**	ND	ND	ND	ND	ND	**830 J**	ND	**6,000 J**
27-2003-B01	25.5	26	**1,100 J**	ND	**570 J**	ND	ND	ND	ND	ND	ND	**690 J**	**1,900 J**
27-2003-B01	30.5	31	**2,400 J**	ND	**1,100 J**	ND	ND	ND	ND	ND	**1,000 J**	ND	**4,900 J**
27-2003-B01	31	31.5	**3,200 J**	ND	**1,400 J**	ND	ND	ND	ND	ND	**1,100 J**	ND	**5,600 J**
27-2003-B01	36	36.5	**49**	**3 J**	**24**	**3 J**	**2 J**	**2 J**	ND	**1 J**	**40**	ND	**140**
27-2003-B01	40.5	41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	46	46.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	51	51.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	55.5	56	ND	ND	ND	**1 J**	**5 J**	ND	ND	ND	ND	ND	ND
27-2003-B01	60.5	61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	65.5	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	10.5	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	15.5	16	**2 J**	ND	**1 J**	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	21	21.5	**1,600 J**	ND	**830 J**	ND	ND	ND	ND	ND	ND	**320 J**	**1,300 J**
27-2003-B02	26	26.5	**970 J**	ND	**500 J**	ND	ND	ND	ND	ND	ND	**300 J**	**820 J**
27-2003-B02	31	31.5	**2,500 J**	ND	**1,100 J**	ND	ND	ND	ND	ND	**1,400 J**	ND	**7,100 J**
27-2003-B02	37.5	38	ND	ND	ND	ND	ND	ND	**0.6 J**	ND	ND	ND	ND
27-2003-B02	42.5	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	46	46.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	51	51.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	55.5	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	61	61.5	ND	ND	ND	ND	ND	ND	**0.6 J**	ND	ND	ND	ND

Notes: Bold indicates analyte was detected

*	Duplicate sample	bgs	Below ground surface	J	Estimated concentration
µg/kg	Microgram per kilogram	ft	Feet	ND	Not detected

TABLE 6

SEMIVOLATILE ORGANIC COMPOUND RESULTS
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Point Location	Top Depth (ft bgs)	Bottom Depth (ft bgs)	2-Methylnaphthalene (µg/kg)	Acenaphthene (µg/kg)	Acetophenone (µg/kg)	Benzo(a)anthracene (µg/kg)	Chrysene (µg/kg)	Fluoranthene (µg/kg)	Fluorene (µg/kg)	Naphthalene (µg/kg)	Phenanthrene (µg/kg)	Pyrene (µg/kg)
27-2003-B01	10.5	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	22.5	23	**130,000**	**4,900 J**	**1,400 J**	**3,500 J**	**5,700 J**	**2,100 J**	**9,130**	**28, 000**	**23,000**	ND
27-2003-B01	25.5	26	**78,000**	**3,900 J**	**780 J**	**3,200 J**	**6,200 J**	**1,700 J**	**7,810**	**17, 000**	**17,000**	ND
27-2003-B01	30.5	31	**73,000**	ND	**750 J**	**2,300 J**	**3,800 J**	**1,300 J**	**5,800 J**	**18, 000**	**14,100**	ND
27-2003-B01	31*	31.5	**51,000**	**2,100 J**	ND	**1,800 J**	**3,400 J**	**1,100 J**	**4,700 J**	**15, 500**	**11,000 J**	**7,100 J**
27-2003-B01	36	36.5	**16,000**	**910 J**	ND	**680 J**	**1,000 J**	**400 J**	**1,500 J**	**4, 900 J**	**3,400 J**	**2,500 J**
27-2003-B01	40.5	41	**37 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	46	46.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	51	51.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	55.5	56	**740**	ND	ND	**54 J**	**120 J**	**84 J**	**79 J**	**150 J**	**210 J**	**220 J**
27-2003-B01	60.5	61	**25 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B01	65.5	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	10.5	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	15.5	16	**27 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	21	21.5	**6,040**	**280 J**	ND	**210 J**	**360 J**	ND	**680 J**	**1,400 J**	**1,100 J**	**680 J**
27-2003-B02	26	26.5	**2,800 J**	ND	ND	**220 J**	**370 J**	ND	**580 J**	**1,300 J**	**1,400 J**	**670 J**
27-2003-B02	31	31.5	**6,820**	**290 J**	ND	**240 J**	**600 J**	ND	**960 J**	**1,900 J**	**1,500 J**	**750 J**
27-2003-B02	37.5	38	ND	ND	ND	ND	ND	ND	ND	ND	**240 J**	ND
27-2003-B02	42.5	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-2003-B02	46	46.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 7

PHYSICAL PARAMETER RESULTS
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Point Location	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Total Soil Porosity (% by volume)	Air Filled Soil Porosity (% by volume)	Total Pore Fluid Saturation (% pore volume)	Bulk Density (g/cm^3)	Grain Density (g/cm^3)	Effective Permeability (milliDarcy)**	Hydraulic Conductivity (cm/s)**	Total Organic Carbon - Minimum (mg/kg)	Total Organic Carbon - Maximum (mg/kg)	Total Organic Carbon - Average (mg/kg)	Heterotrophic Plate Count (cfu)	Moisture Content (% weight)	pH
27-2003-B01	10.5	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.5	8.42
27-2003-B01	22.5	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	900	4.4	8.47
27-2003-B01	25.5	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	8.89
27-2003-B01	30.5	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.2	8.43
27-2003-B01	31	31.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.6	8.59
27-2003-B01	36	36.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.8	8.76
27-2003-B01	40.5	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.8	8.61
27-2003-B01	46	46.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.7	8.79
27-2003-B01	51	51.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3	8.94
27-2003-B01	55.5	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2	8.75
27-2003-B01	60.5	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.9	8.92
27-2003-B01	65.5	66	41.7	28	33	1.53	2.63	1.53	7.93E-05	227	1,560	681	NA	9.1	8.83
27-2003-B02	10.5	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.6	8.09
27-2003-B02	15.5	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.7	7.94
27-2003-B02	21	21.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.0	8.37
27-2003-B02	26	26.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	7.29
27-2003-B02	31	31.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	9.4	8.59
27-2003-B02	37.5	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.3	8.46
27-2003-B02	42.5	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.1	8.83
27-2003-B02	46	46.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.8	8.81
27-2003-B02	51	51.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.4	8.80
27-2003-B02	55.5	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.4	9.24
27-2003-B02	61	61.5	31.0	8.0	74	1.81	2.62	17.8	1.69E-05	ND	464	190	NA	12.7	8.90

TABLE 8

INPUTS TO SESOIL FATE AND TRANSPORT MODEL
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Model Input Parameters	Data Source
Contamination depth range (feet)	Field
Groundwater depth (feet)	Literature
Bulk density of dry soil, (grams per cubic centimeter)	Field
Organic carbon content of soil (percent by weight)	Field
Air diffusion coefficient of contaminant (square meters per day)	Literature
Soil layer depth (feet)	Field
Effective soil porosity (volume per volume)	Field/Literature
Intrinsic permeability (square centimeters) [a]	Field/Literature
Disconnectedness index[b]	Literature
Freundlich exponent	User Defined
Time increment	User Defined
Climate parameters[c]	Site Specific
Chemical properties[d]	Chemical Specific
Application data[e]	Selected based on field data

Notes:

a Intrinsic permeability is estimated as hydraulic conductivity in units of centimeters/second multiplied by 0 00001 (GSC 1995).

b Soil pore disconnectedness index and effective porosity values for vadose zone were obtained from Bonazountas and Wagner (1984)

c From the SESOIL database, including monthly evapotranspiration and rainfall statistics.

d Data on chemical properties, for example, the solubility and the partitioning coefficients.

e Data describing soil compartments, characteristics of pollutant loadings, and layer-dependent properties.

SESOIL Seasonal soil compartment model

Sources:

General Sciences Corporation (GSC). 1995. "RISKPRO's SESOIL for Windows". General Sciences Corporation, Laurel, Maryland.

Bonazountas, M. and J Wagner 1984. *SESOIL: A Seasonal Soil Compartment Model*. Prepared by Arthur D. Little, Inc , Cambridge, Massachusetts, for the U.S. Environmental Protection Agency (EPA) Office of Toxic Substances.

APPENDIX A

SOIL BORING LOGS

Tetra Tech EM Inc.

Log of Boring: 27-2003-B01

Logged By: CAITLIN C GORMAN, R.G.
Logging Consultant: TETRA TECH EMI
Drilling Company: WDC

Project: FORT IRWIN, FT IR-027
Project No: G10582401094
Location: N 644773.65, E 2391349.42
Ground Surface Elevation (feet msl): 2519

Drilling Method: HSA
Boring Started: 11/19/03
Completed: 11/19/03
Boring Depth (feet bgs): 66.50
Boring Diameter (inches): 4.25

DEPTH (FEET)	DRIVE INTERVAL	RECOVERY (IN)	BLOW COUNTS	SAMPLE ID	OVM (PPM)	WATER LEVEL	GRAPHIC LOG	USCS SOIL TYPE	DESCRIPTION
0									Ground Surface Gravel at surface
10		18	39/60/50					ML	SILT WITH CLAY: yellowish brown (10YR 5/6), dry, very stiff, approximately 20% fine to coarse sand (subangular), approximately 80% fines. No odor. No staining (fill material). At 18' driller notes petroleum odor.
11				025	0				
15		0	21/26/38						
18								SM	FINE SAND WITH SILT: yellowish brown (10YR 5/6), dry to slightly moist, medium dense, approximately 20% silt, trace clay, approximately 5% gravel (up to 1.5"), approximately 75% very fine to fine sand, strong petroleum odor. Becomes medium SAND WITH SILT at 23.5'. Sand content increases to 80%. Petroleum stain and odor (sand grains coated with product). (native material)
22		12	70/100	001					
23					157				
25		12	100					SW	MEDIUM TO COARSE SAND: very dark brown (10YR 2.2), well graded, slightly moist (with product), subangular to subrounded sand, trace silt, trace gravel (up to 0.25"), silt content increases to 15% at 31'. Very hard drilling at 35'. Petroleum odor and stain at 36' up to 5% gravel. Hard drilling at 40'. Odor at 40.5'
26				030					
27					109				
30		12	150						
31				002 004	108.4				

Tetra Tech EM Inc.

Log of Boring: 27-2003-B01

Project: FORT IRWIN, FT IR-027 ***Project No:*** G10582401094

Location: N 644773.65, E 2391349.42

DEPTH (FEET)	DRIVE INTERVAL	RECOVERY (IN)	BLOW COUNT	SAMPLE ID	OVM (PPM)	WATER LEVEL	GRAPHIC LOG	USCS SOIL TYPE	DESCRIPTION
36		5	170	026	131.8				
37									
38									
39									
40		12	70/200	003	146.9				
41					7.9				SAND WITH GRAVEL: very pale brown (10YR 8/3) to pink (7.5 YR 7/3), well graded, approximately 80% angular to subrounded sand (fine to coarse), approximately 10-20% angular to subrounded gravel (up to 1"). (very distinct color change from previous SW). Large cobble (volcanic) at 46' (3" diameter). Cemented SW at 46.5' (2" thick in sleeve)
42									
43									
44									
45			204						
46		6	150/200	005	9.5				
47					70				
48									
49									
50									SAND WITH GRAVEL (as above): no odor or staining observed.
51		12	200/168/200	027	8.7				
52					12.1				
53									
54									
55		12	210/210	028				SM	SILTY SAND: pink (7.5YR 7/3), very dry, approximately 80% fines (very fine sand to silt), approximately 5% medium sand approximately 5% gravel (angular to subrounded up to 0.75"), possible hard pan/caliche cement
56					0				
57									
58									
59									
60		18	250/250/250	029					
61					0				
62									
63									
64									
65		9	200/200	006					
66					0				Refusal on caliche/cemented material.
67									Total depth of boring = 66.5 feet
68									
69									
70									

Tetra Tech EM Inc.

Log of Boring: 27-2003-B02

Logged By: CAITLIN C GORMAN, R G.
Logging Consultant: TETRA TECH EMI
Drilling Company: WDC

Project: FORT IRWIN, FT IR-027
Project No: G10582401094
Location: N 644751.28, E 2391348.90
Ground Surface Elevation (feet msl): 2519

Drilling Method: HSA
Boring Started: 11/20/03
Completed: 11/20/03
Boring Depth (feet bgs): 61.50
Boring Diameter (inches): 4.25

DEPTH (FEET)	DRIVE INTERVAL	RECOVERY (IN)	BLOW COUNTS	SAMPLE ID	OVM (PPM)	WATER LEVEL	GRAPHIC LOG	USCS SOIL TYPE	DESCRIPTION
0									Ground Surface
1–9									Gravel at surface
10–11		18	30/41/53	031	0			ML	SILT WITH CLAY: yellowish brown (10YR 5/4), dry, very stiff, 10-15% fine to medium sand 85-90% fines (silt and clay), trace gravel (up to 1"). No odor No staining. (fill material)
12–14									
15–16		18	50/59/86	035	0				
17–19									
20–21		18	24/27/32					SM	SAND WITH SILT: very dark grayish brown (10YR 3/2), dry to slightly moist, medium dense, approximately 80% fine to medium sand (subangular to subround), approximately 20% fines (silt, trace clay). Strong petroleum odor. Petrolum stain on sand grains (coating). Large cobble of cemented product stained sand at 21 5' (3" diameter). (Native material)
22				007	52.8				
23–24									
25–26		2	60/92/200	008	34.5			SW	MEDIUM TO COARSE SAND: very dark brown (10YR 2/2), well graded, moist with product, trace silt, trace gravel (up to 0.2"), strong odor. Driller notes strong odor at 27' Breathing zone FID reading=14.7 ppm Hard drilling at 26.5' and 30' Hard at 35' - drill to 37' reattempt
27–30									
31		6	200	009; 010	110.4				
32–35									

Tetra Tech EM Inc.

Log of Boring: 27-2003-B02

Project: FORT IRWIN, FT IR-027 **Project No:** G10582401094

Location: N 644751.28, E 2391348.90

DEPTH (FEET)	DRIVE INTERVAL	RECOVERY (IN)	BLOW COUNT	SAMPLE ID	OVM (PPM)	WATER LEVEL	GRAPHIC LOG	USCS SOIL TYPE	DESCRIPTION
36			100						
37		9	100/100	011					
38					0				SAND WITH GRAVEL: very pale brown (10YR 7/4) to yellow (10YR 7/6), dry, medium dense, well sorted, angular to subrounded sand, approximately 10-15% angular to subrounded gravel (up to 0.5"). No odor. No staining. Very distinct color change from previous material. Large gravel clasts in shoe at 42.5' (metamorphic, subround, up to 2.5"). Volcanic rock in shoe at46.5' (basalt/vessicular, up to 3" diameter).
39									
40									
41									
42		6	200	033	0				
43									
44									
45									
46									
47		6	150	034	0				
48									
49									
50									
51		6	100	035	0				SAND WITH GRAVEL: (as above), no odor or stain observed. Hard drilling at 55'. Extremely hard drilling at 57.5' (grinding)
52									
53									
54									
55								SM	
56									SILTY SAND: pink (7.5 YR 7/3) to reddish yellow (7.5YR 7/6), dry, very stiff, approximately 80% fines (silt and very fine sand), approximately 10% medium to coarse sand, approximately 5% to trace gravel (angular, up to 0.1"), partly cemented in places
57		8	100/100	036	0				
58									
59									
60		4	200						
61		4	200	012	4.6				
62									Total depth of boring = 61.5 feet
63									
64									
65									
66									
67									
68									
69									
70									

Tetra Tech EM Inc.

Log of Boring: 27-2003-B03

Logged By: CAITLIN C GORMAN, R G
Logging Consultant: TETRA TECH EMI
Drilling Company: WDC

Project: FORT IRWIN, FT IR-027
Project No: G10582401094
Location: N 644770.86, E 239171.52
Ground Surface Elevation (feet msl): 2519

Drilling Method: HSA
Boring Started: 11/20/03
Completed: 11/20/03
Boring Depth (feet bgs): 35.50
Boring Diameter (inches): 4.25

DEPTH (FEET)	DRIVE INTERVAL	RECOVERY (IN)	BLOW COUNTS	SAMPLE ID	OVM (PPM)	WATER LEVEL	GRAPHIC LOG	USCS SOIL TYPE	DESCRIPTION
0									Ground Surface
1–9									Gravel at surface
10–11		6	100	037; 038	0			SM	SAND WITH SILT AND GRAVEL: very pale brown (10YR 7/4), dry, dense to very dense, approximately 75% very fine to coarse sand, 5-10% gravel (angular to subround up to 2"), 15-20% fines (silt). Very sightly moist at 16' No odor No stain (native material)
15–16		12	80/200		0				
20–21		12	200		0				Same as above. Hard drilling at 22.5 slightly moist at 21.5
25–26		12	78/120	039	0			SW	MEDIUM TO COARSE SAND: very pale brown (10YR 7/3 to 10YR 8/3), dry, medium dense to dense subangular to subrounded, approximately 10-15% fines (fine sand and silt), trace gravel (up to 0.25"). No odor No stain Very large cobble (meta volcanic) in sleeve at 30.5' approximately 5" long/2.5" diameter.
30		2			0				
35		6	236	040	0				
36									Total depth of boring = 35.5 feet

APPENDIX B

ANALYTICAL DATA FOR FTIR-27

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-0"	Tank 72	7.0	METALS	6010	Cadmium	ND		0.5	mg/kg
#72 7'-0"	Tank 72	7.0	METALS	6010	Chromium	3.8		0.5	mg/kg
#72 7'-0"	Tank 72	7.0	METALS	7420	Lead	ND		5	mg/kg
#72 7'-0"	Tank 72	7.0	METALS	6010	Nickel	6.5		2.5	mg/kg
#72 7'-0"	Tank 72	7.0	METALS	6010	Zinc	15		0.5	mg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	4,4-DDD'	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	4,4-DDE'	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	4,4-DDT'	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Aldrin	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	alpha-BHC	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	beta-BHC	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Chlordane	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Delta-BHC	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Dieldrin	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Endosulfan I	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Endosulfan II	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Endosulfan sulfate	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Endrin	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Endrin aldehyde	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	gamma-BHC	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Heptachlor	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Heptachlor epoxide	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Methoxychlor	ND		20	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	PCB-1016	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	PCB-1221	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	PCB-1232	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	PCB-1242	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	PCB-1248	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	PCB-1254	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	PCB-1260	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	PEST/PCB	8080	Toxaphene	ND		40	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	1,2,4-Trichlorobenzene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	1,2-Dichlorobenzene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	1,2-Diphenylhydrazine	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	1,3-Dichlorobenzene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	1,4-Dichlorobenzene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2,4,5-Trichlorophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2,4,6-Trichlorophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2,4-Dichlorophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2,4-Dimethylphenol	ND		20000	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-0"	Tank 72	7.0	SVOC	8270	2,4-Dinitrophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2,4-Dinitrotoluene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2,6-Dinitirotoluene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Chloronaphthalene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Chlorophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Methyl-4,6-dinitrophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Methylnaphthalene	220000		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Methylphenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Naphylamine	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Nitroaniline	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	2-Nitrophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	3,3-Dichlorobenzidine	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	3-Nitroaniline	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4,4-DDD'	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4,4-DDE'	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4,4-DDT'	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4-Bromophenyl phenyl ether	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4-Chloro-3-methylphenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4-Chloroaniline	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4-Chlorophenyl phenyl ether	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4-Methylphenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4-Nitroaniline	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	4-Nitrophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Acenaphthalene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Acenaphthene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Aldrin	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	alpha-BHC	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Aniline	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Anthracene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzidine	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzo(a)anthracene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzo(a)pyrene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzo(b)fluoranthene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzo(g,h,i)perylene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzo(k)fluoranthene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzoic acid	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Benzyl alcohol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	beta-BHC	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	bis(2-Chloroethoxy)methane	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	bis(2-Chloroethyl)ether	ND		20000	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-0"	Tank 72	7.0	SVOC	8270	bis(2-Chloroisopropyl)ether	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	bis(2-Ethylhexyl)phthalate	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Butylbenzyl phthalate	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Chrysene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Delta-BHC	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Dibenzo(a,h)anthracene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Dibenzofuran	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Dieldrin	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Diethyl phthalate	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Dimethyl phthalate	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Di-n-butyl phthalate	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Di-n-octylphthalate	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Endosulfan I	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Endosulfan II	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Endosulfan sulfate	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Endrin	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Endrin aldehyde	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Fluoranthene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Fluorene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	gamma-BHC	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Heptachlor	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Heptachlor epoxide	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Hexachlorobenzene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Hexachlorobutadiene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Hexachlorocyclopentadiene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Hexachloroethane	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Indeno(1,2,3-cd)pyrene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Isophorone	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Naphthalene	38000		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Nitrobenzene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	N-nitrosodimethylamine	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	N-nitrosodi-n-propylamine	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	N-Nitrosodiphenylamine	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Pentachlorophenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Phenanthrene	44000		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Phenol	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	SVOC	8270	Pyrene	ND		20000	µg/kg
#72 7'-0"	Tank 72	7.0	TPH	8015M	Diesel	20000		3000	mg/kg
#72 7'-0"	Tank 72	7.0	TPH	8015M	Gasoline	360		10	mg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,1,1-Trichloroethane	ND		1000	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-0"	Tank 72	7.0	VOC	8240	1,1,2,2-Tetrachloroethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,1,2-Trichloroethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,1-Dichloroethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,1-Dichloroethene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,2-Dichlorobenzene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,2-Dichloroethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,2-Dichloropropane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,3-Dichlorobenzene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	1,4-Dichlorobenzene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Benzene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Bromodichloromethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Bromoform	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Bromomethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	c-1,2-Dichloroethene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	c-1,3-Dichloropropene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Carbon tetrachloride	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Chlorobenzene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Chloroethane	ND		2000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Chloroform	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Chloromethane	ND		2000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Dibromochloromethane	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Ethylbenzene	2300		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Methylene chloride	ND		2000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	t-1,2-Dichloroethene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	t-1,3-Dichloropropene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Tetrachloroethene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Toluene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Trichloroethene	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Vinyl chloride	ND		1000	µg/kg
#72 7'-0"	Tank 72	7.0	VOC	8240	Xylenes	20000		2000	µg/kg
#72 7'-6"	Tank 72	7.5	METALS	6010	Cadmium	ND		0.5	mg/kg
#72 7'-6"	Tank 72	7.5	METALS	6010	Chromium	5.7		0.5	mg/kg
#72 7'-6"	Tank 72	7.5	METALS	7420	Lead	5		5	mg/kg
#72 7'-6"	Tank 72	7.5	METALS	6010	Nickel	6.4		2.5	mg/kg
#72 7'-6"	Tank 72	7.5	METALS	6010	Zinc	20		0.5	mg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	4,4-DDD'	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	4,4-DDE'	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	4,4-DDT'	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Aldrin	ND		20	µg/kg

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PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	alpha-BHC	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	beta-BHC	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Chlordane	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Delta-BHC	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Dieldrin	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Endosulfan I	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Endosulfan II	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Endosulfan sulfate	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Endrin	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Endrin aldehyde	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	gamma-BHC	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Heptachlor	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Heptachlor epoxide	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Methoxychlor	ND		20	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	PCB-1016	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	PCB-1221	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	PCB-1232	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	PCB-1242	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	PCB-1248	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	PCB-1254	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	PCB-1260	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	PEST/PCB	8080	Toxaphene	ND		40	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	1,2,4-Trichlorobenzene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	1,2-Dichlorobenzene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	1,2-Diphenylhydrazine	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	1,3-Dichlorobenzene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	1,4-Dichlorobenzene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2,4,5-Trichlorophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2,4,6-Trichlorophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2,4-Dichlorophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2,4-Dimethylphenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2,4-Dinitrophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2,4-Dinitrotoluene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2,6-Dinitirotoluene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Chloronaphthalene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Chlorophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Methyl-4,6-dinitrophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Methylnaphthalene	180000		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Methylphenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Naphylamine	ND		20000	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Nitroaniline	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	2-Nitrophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	3,3-Dichlorobenzidine	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	3-Nitroaniline	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4,4-DDD'	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4,4-DDE'	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4,4-DDT'	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4-Bromophenyl phenyl ether	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4-Chloro-3-methylphenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4-Chloroaniline	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4-Chlorophenyl phenyl ether	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4-Methylphenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4-Nitroaniline	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	4-Nitrophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Acenaphthalene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Acenaphthene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Aldrin	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	alpha-BHC	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Aniline	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Anthracene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzidine	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzo(a)anthracene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzo(a)pyrene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzo(b)fluoranthene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzo(g,h,i)perylene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzo(k)fluoranthene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzoic acid	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Benzyl alcohol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	beta-BHC	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	bis(2-Chloroethoxy)methane	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	bis(2-Chloroethyl)ether	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	bis(2-Chloroisopropyl)ether	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	bis(2-Ethylhexyl)phthalate	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Butylbenzyl phthalate	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Chrysene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Delta-BHC	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Dibenzo(a,h)anthracene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Dibenzofuran	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Dieldrin	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Diethyl phthalate	ND		20000	µg/kg

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-6"	Tank 72	7.5	SVOC	8270	Dimethyl phthalate	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Di-n-butyl phthalate	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Di-n-octylphthalate	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Endosulfan I	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Endosulfan II	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Endosulfan sulfate	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Endrin	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Endrin aldehyde	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Fluoranthene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Fluorene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	gamma-BHC	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Heptachlor	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Heptachlor epoxide	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Hexachlorobenzene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Hexachlorobutadiene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Hexachlorocyclopentadiene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Hexachloroethane	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Indeno(1,2,3-cd)pyrene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Isophorone	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Naphthalene	27000		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Nitrobenzene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	N-nitrosodimethylamine	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	N-nitrosodi-n-propylamine	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	N-Nitrosodiphenylamine	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Pentachlorophenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Phenanthrene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Phenol	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	SVOC	8270	Pyrene	ND		20000	µg/kg
#72 7'-6"	Tank 72	7.5	TPH	8015M	Diesel	19000		3000	mg/kg
#72 7'-6"	Tank 72	7.5	TPH	8015M	Gasoline	320		30	mg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,1,1-Trichloroethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,1,2,2-Tetrachloroethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,1,2-Trichloroethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,1-Dichloroethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,1-Dichloroethene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,2-Dichlorobenzene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,2-Dichloroethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,2-Dichloropropane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	1,3-Dichlorobenzene	ND		1000	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72 7'-6"	Tank 72	7.5	VOC	8240	1,4-Dichlorobenzene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Benzene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Bromodichloromethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Bromoform	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Bromomethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	c-1,2-Dichloroethene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	c-1,3-Dichloropropene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Carbon tetrachloride	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Chlorobenzene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Chloroethane	ND		2000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Chloroform	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Chloromethane	ND		2000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Dibromochloromethane	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Ethylbenzene	1300		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Methylene chloride	ND		2000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	t-1,2-Dichloroethene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	t-1,3-Dichloropropene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Tetrachloroethene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Toluene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Trichloroethene	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Vinyl chloride	ND		1000	µg/kg
#72 7'-6"	Tank 72	7.5	VOC	8240	Xylenes	7900		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	METALS	6010	Cadmium	ND		0.5	mg/kg
#72-Tank Concrete Vault	Tank 72	n/a	METALS	6010	Chromium	14		0.5	mg/kg
#72-Tank Concrete Vault	Tank 72	n/a	METALS	7420	Lead	7.5		5	mg/kg
#72-Tank Concrete Vault	Tank 72	n/a	METALS	6010	Nickel	13		2.5	mg/kg
#72-Tank Concrete Vault	Tank 72	n/a	METALS	6010	Zinc	31		0.5	mg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	4,4-DDD'	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	4,4-DDE'	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	4,4-DDT'	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Aldrin	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	alpha-BHC	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	beta-BHC	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Chlordane	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Delta-BHC	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Dieldrin	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Endosulfan I	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Endosulfan II	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Endosulfan sulfate	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Endrin	ND		6	µg/kg

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PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Endrin aldehyde	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	gamma-BHC	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Heptachlor	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Heptachlor epoxide	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Methoxychlor	ND		6	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	PCB-1016	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	PCB-1221	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	PCB-1232	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	PCB-1242	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	PCB-1248	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	PCB-1254	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	PCB-1260	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	PEST/PCB	8080	Toxaphene	ND		10	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	1,2,4-Trichlorobenzene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	1,2-Dichlorobenzene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	1,2-Diphenylhydrazine	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	1,3-Dichlorobenzene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	1,4-Dichlorobenzene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2,4,5-Trichlorophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2,4,6-Trichlorophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2,4-Dichlorophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2,4-Dimethylphenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2,4-Dinitrophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2,4-Dinitrotoluene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2,6-Dinitirotoluene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Chloronaphthalene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Chlorophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Methyl-4,6-dinitrophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Methylnaphthalene	56000		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Methylphenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Naphylamine	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Nitroaniline	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	2-Nitrophenoi	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	3,3-Dichlorobenzidine	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	3-Nitroaniline	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4,4-DDD'	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4,4-DDE'	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4,4-DDT'	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4-Bromophenyl phenyl ether	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4-Chloro-3-methylphenol	ND		2000	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4-Chloroaniline	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4-Chlorophenyl phenyl ether	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4-Methylphenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4-Nitroaniline	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	4-Nitrophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Acenaphthalene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Acenaphthene	2800		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Aldrin	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	alpha-BHC	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Aniline	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Anthracene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzidine	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzo(a)anthracene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzo(a)pyrene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzo(b)fluoranthene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzo(g,h,i)perylene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzo(k)fluoranthene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzoic acid	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Benzyl alcohol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	beta-BHC	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	bis(2-Chloroethoxy)methane	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	bis(2-Chloroethyl)ether	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	bis(2-Chloroisopropyl)ether	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	bis(2-Ethylhexyl)phthalate	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Butylbenzyl phthalate	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Chrysene	3700		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Delta-BHC	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Dibenzo(a,h)anthracene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Dibenzofuran	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Dieldrin	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Diethyl phthalate	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Dimethyl phthalate	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Di-n-butyl phthalate	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Di-n-octylphthalate	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Endosulfan I	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Endosulfan II	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Endosulfan sulfate	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Endrin	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Endrin aldehyde	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Fluoranthene	ND		2000	µg/kg

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Fluorene	3600		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	gamma-BHC	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Heptachlor	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Heptachlor epoxide	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Hexachlorobenzene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Hexachlorobutadiene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Hexachlorocyclopentadiene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Hexachloroethane	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Indeno(1,2,3-cd)pyrene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Isophorone	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Naphthalene	10000		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Nitrobenzene	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	N-nitrosodimethylamine	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	N-nitrosodi-n-propylamine	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	N-Nitrosodiphenylamine	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Pentachlorophenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Phenanthrene	11000		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Phenol	ND		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	SVOC	8270	Pyrene	2500		2000	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	TPH	8015M	Diesel	5500		1000	mg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,1,1-Trichloroethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,1,2,2-Tetrachloroethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,1,2-Trichloroethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,1-Dichloroethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,1-Dichloroethene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,2-Dichlorobenzene	1000		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,2-Dichloroethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,2-Dichloropropane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,3-Dichlorobenzene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	1,4-Dichlorobenzene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Bromodichloromethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Bromoform	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Bromomethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	c-1,3-Dichloropropene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Carbon tetrachloride	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Chlorobenzene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Chloroethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Chloroform	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Chloromethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Dibromochloromethane	ND		40	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Dichlorodifluoromethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Methylene chloride	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	t-1,3-Dichloropropene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Tetrachloroethene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	total 1,2-Dichloroethene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Trichloroethene	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Trichlorofluoromethane	ND		40	µg/kg
#72-Tank Concrete Vault	Tank 72	n/a	VOC	8010	Vinyl chloride	ND		40	µg/kg
#72-Tank Contents	Tank 72	n/a	METALS	6010	Cadmium	ND		0.5	mg/kg
#72-Tank Contents	Tank 72	n/a	METALS	6010	Chromium	5.8		0.5	mg/kg
#72-Tank Contents	Tank 72	n/a	METALS	7420	Lead	6		5	mg/kg
#72-Tank Contents	Tank 72	n/a	METALS	6010	Nickel	6.5		2.5	mg/kg
#72-Tank Contents	Tank 72	n/a	METALS	6010	Zinc	25		0.5	mg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	4,4-DDD'	ND		5	ug/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	4,4-DDE'	ND		5	ug/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	4,4-DDT'	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Aldrin	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	alpha-BHC	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	beta-BHC	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Chlordane	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Delta-BHC	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Dieldrin	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Endosulfan I	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Endosulfan II	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Endosulfan sulfate	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Endrin	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Endrin aldehyde	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	gamma-BHC	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Heptachlor	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Heptachlor epoxide	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Methoxychlor	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	PCB-1016	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	PCB-1221	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	PCB-1232	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	PCB-1242	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	PCB-1248	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	PCB-1254	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	PCB-1260	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	PEST/PCB	8080	Toxaphene	ND		10	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	1,2,4-Trichlorobenzene	ND		5000	µg/kg

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PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72-Tank Contents	Tank 72	n/a	SVOC	8270	1,2-Dichlorobenzene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	1,2-Diphenylhydrazine	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	1,3-Dichlorobenzene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	1,4-Dichlorobenzene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2,4,5-Trichlorophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2,4,6-Trichlorophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2,4-Dichlorophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2,4-Dimethylphenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2,4-Dinitrophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2,4-Dinitrotoluene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2,6-Dinitirotoluene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Chloronaphthalene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Chlorophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Methyl-4,6-dinitrophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Methylnaphthalene	13000		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Methylphenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Naphylamine	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Nitroaniline	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	2-Nitrophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	3,3-Dichlorobenzidine	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	3-Nitroaniline	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4,4-DDD'	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4,4-DDE'	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4,4-DDT'	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4-Bromophenyl phenyl ether	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4-Chloro-3-methylphenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4-Chloroaniline	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4-Chlorophenyl phenyl ether	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4-Methylphenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4-Nitroaniline	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	4-Nitrophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Acenaphthalene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Acenaphthene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Aldrin	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	alpha-BHC	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Aniline	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Anthracene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzidine	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzo(a)anthracene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzo(a)pyrene	ND		5000	µg/kg

TABLE B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzo(b)fluoranthene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzo(g,h,i)perylene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzo(k)fluoranthene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzoic acid	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Benzyl alcohol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	beta-BHC	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	bis(2-Chloroethoxy)methane	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	bis(2-Chloroethyl)ether	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	bis(2-Chloroisopropyl)ether	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	bis(2-Ethylhexyl)phthalate	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Butylbenzyl phthalate	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Chrysene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Delta-BHC	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Dibenzo(a,h)anthracene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Dibenzofuran	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Dieldrin	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Diethyl phthalate	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Dimethyl phthalate	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Di-n-butyl phthalate	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Di-n-octylphthalate	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Endosulfan I	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Endosulfan II	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Endosulfan sulfate	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Endrin	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Endrin aldehyde	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Fluoranthene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Fluorene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	gamma-BHC	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Heptachlor	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Heptachlor epoxide	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Hexachlorobenzene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Hexachlorobutadiene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Hexachlorocyclopentadiene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Hexachloroethane	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Indeno(1,2,3-cd)pyrene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Isophorone	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Naphthalene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Nitrobenzene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	N-nitrosodimethylamine	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	N-nitrosodi-n-propylamine	ND		5000	µg/kg

T. .E B-1

PRE-TANK REMOVAL DATA, JANUARY 4, 1994, FTIR-27
NATIONAL TRAINING CENTER FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
#72-Tank Contents	Tank 72	n/a	SVOC	8270	N-Nitrosodiphenylamine	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Pentachlorophenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Phenanthrene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Phenol	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	SVOC	8270	Pyrene	ND		5000	µg/kg
#72-Tank Contents	Tank 72	n/a	TPH	8015M	Diesel	1900		200	mg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,1,1-Trichloroethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,1,2,2-Tetrachloroethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,1,2-Trichloroethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,1-Dichloroethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,1-Dichloroethene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,2-Dichlorobenzene	9		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,2-Dichloroethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,2-Dichloropropane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,3-Dichlorobenzene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	1,4-Dichlorobenzene	6		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Bromodichloromethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Bromoform	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Bromomethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	c-1,3-Dichloropropene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Carbon tetrachloride	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Chlorobenzene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Chloroethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Chloroform	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Chloromethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Dibromochloromethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Dichlorodifluoromethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Methylene chloride	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	t-1,3-Dichloropropene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Tetrachloroethene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	total 1,2-Dichloroethene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Trichloroethene	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Trichlorofluoromethane	ND		5	µg/kg
#72-Tank Contents	Tank 72	n/a	VOC	8010	Vinyl chloride	ND		5	µg/kg

TABLE B-2

POST-REMOVAL CONFIRMATION DATA, JANUARY 11, 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
Center of Excavation 26'	Center of Excavation	26.0	TPH	8015M	Diesel	12000			mg/kg
Center of Excavation 26'	Center of Excavation	26.0	TPH	8015M	Motor Oil	ND			mg/kg
East Trench 10' Sidewall	East Trench	10.0	TPH	8015M	Diesel	16000			mg/kg
East Trench 10' Sidewall	East Trench	10.0	TPH	8015M	Motor Oil	ND			mg/kg
East Trench 15' Sidewall	East Trench	15.0	TPH	8015M	Diesel	530			mg/kg
East Trench 15' Sidewall	East Trench	15.0	TPH	8015M	Motor Oil	ND			mg/kg
North Trench 10' Sidewall	North Trench	10.0	TPH	8015M	Diesel	ND			mg/kg
North Trench 10' Sidewall	North Trench	10.0	TPH	8015M	Motor Oil	110			mg/kg
North Trench 15' Sidewall	North Trench	15.0	TPH	8015M	Diesel	ND			mg/kg
North Trench 15' Sidewall	North Trench	15.0	TPH	8015M	Motor Oil	ND			mg/kg
South Trench 10' Sidewall	South Trench	10.0	TPH	8015M	Diesel	ND			mg/kg
South Trench 10' Sidewall	South Trench	10.0	TPH	8015M	Motor Oil	840			mg/kg
South Trench 15' Sidewall	South Trench	15.0	TPH	8015M	Diesel	ND			mg/kg
South Trench 15' Sidewall	South Trench	15.0	TPH	8015M	Motor Oil	450			mg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-1-16.5	FTI72-94-1	16.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-1-16.5	FTI72-94-1	16.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-1-16.5	FTI72-94-1	16.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-1-16.5	FTI72-94-1	16.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-1-16.5	FTI72-94-1	16.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-1-16.5	FTI72-94-1	16.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-1-16.5	FTI72-94-1	16.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-1-16.5	FTI72-94-1	16.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-1-31	FTI72-94-1	31.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-1-31	FTI72-94-1	31.0	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-1-31	FTI72-94-1	31.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-1-31	FTI72-94-1	31.0	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-1-31	FTI72-94-1	31.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-1-31	FTI72-94-1	31.0	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-1-31	FTI72-94-1	31.0	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-1-31	FTI72-94-1	31.0	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-2-16.5	FTI72-94-2	16.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-2-26.5	FTI72-94-2	26.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-2-31.5	FTI72-94-2	31.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-2-31.5	FTI72-94-2	31.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-2-31.5	FTI72-94-2	31.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-2-31.5	FTI72-94-2	31.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-2-31.5	FTI72-94-2	31.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-2-31.5	FTI72-94-2	31.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-2-31.5	FTI72-94-2	31.5	VOC	8020	Toluene	ND		5	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-2-31.5	FTI72-94-2	31.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-3-10.5	FTI72-94-3	10.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Antimony	ND		2	mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Arsenic	1.5			mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Barium	38			mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Beryllium	0.42			mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Cobalt	3			mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Copper	6.2			mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Mercury	ND		0.07	mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Molybdenum	ND		1	mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Selenium	ND		0.4	mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Silver	ND		0.3	mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Thallium	ND		0.4	mg/kg
FTI72-94-3-16	FTI72-94-3	16.0	METALS	6000/7000	Vanadium	13			mg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-3-20.5	FTI72-94-3	20.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	TPH	418.1	TRPH	12		10	mg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-3-30.5	FTI72-94-3	30.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-4-10.5	FTI72-94-4	10.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-4-10.5	FTI72-94-4	10.5	TPH	8015M	Gasoline	ND		5	mg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-4-10.5	FTI72-94-4	10.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-4-10.5	FTI72-94-4	10.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-4-10.5	FTI72-94-4	10.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-4-10.5	FTI72-94-4	10.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-4-10.5	FTI72-94-4	10.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-4-10.5	FTI72-94-4	10.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-4-21	FTI72-94-4	21.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-4-21	FTI72-94-4	21.0	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-4-21	FTI72-94-4	21.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-4-21	FTI72-94-4	21.0	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-4-21	FTI72-94-4	21.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-4-21	FTI72-94-4	21.0	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-4-21	FTI72-94-4	21.0	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-4-21	FTI72-94-4	21.0	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-4-30.5	FTI72-94-4	30.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-5-10.5	FTI72-94-5	10.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-5-25.5	FTI72-94-5	25.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	1,2,4-Trichlorobenzene	ND		10	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	1,2-Dichlorobenzene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	1,3-Dichlorobenzene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	1,4-Dichlorobenzene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2,4,5-Trichlorophenol	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2,4,6-Trichlorophenol	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2,4-Dichlorophenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2,4-Dimethylphenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2,4-Dinitrophenol	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2,4-Dinitrotoluene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2,6-Dinitirotoluene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2-Chloronaphthalene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2-Chlorophenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2-Methyl-4,6-dinitrophenol	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2-Methylnaphthalene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2-Methylphenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2-Nitroaniline	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	2-Nitrophenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	3,3-Dichlorobenzidine	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	3-Nitroaniline	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	4-Bromophenyl phenyl ether	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	4-Chloro-3-methylphenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	4-Chloroaniline	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	4-Chlorophenyl phenyl ether	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	4-Methylphenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	4-Nitroaniline	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	4-Nitrophenol	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Acenaphthalene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Acenaphthene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Anthracene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Benzo(a)anthracene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Benzo(a)pyrene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Benzo(b)fluoranthene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Benzo(g,h,i)perylene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Benzo(k)fluoranthene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Benzoic acid	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Benzyl alcohol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	bis(2-Chloroethoxy)methane	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	bis(2-Chloroethyl)ether	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	bis(2-Chloroisopropyl)ether	ND		10	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	bis(2-Ethylhexyl)phthalate	1700		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Butylbenzyl phthalate	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Chrysene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Dibenzo(a,h)anthracene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Dibenzofuran	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Diethyl phthalate	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Dimethyl phthalate	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Di-n-butyl phthalate	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Di-n-octylphthalate	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Fluoranthene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Fluorene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Hexachlorobenzene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Hexachlorobutadiene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Hexachlorocyclopentadiene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Hexachloroethane	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Indeno(1,2,3-cd)pyrene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Isophorone	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Naphthalene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Nitrobenzene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	N-nitrosodi-n-propylamine	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	N-Nitrosodiphenylamine	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Pentachlorophenol	ND		50	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Phenanthrene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Phenol	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	SVOC	8270	Pyrene	ND		10	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-5-31	FTI72-94-5	31.0	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-5-31	FTI72-94-5	31.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-5-31	FTI72-94-5	31.0	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-5-31	FTI72-94-5	31.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-5-31	FTI72-94-5	31.0	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-6-16	FTI72-94-6	16.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-6-16	FTI72-94-6	16.0	TPH	8015M	Gasoline	11		5	mg/kg
FTI72-94-6-16	FTI72-94-6	16.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-6-16	FTI72-94-6	16.0	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-6-16	FTI72-94-6	16.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-6-16	FTI72-94-6	16.0	VOC	8020	Ethylbenzene	88		5	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-6-16	FTI72-94-6	16.0	VOC	8020	Toluene	1100		5	µg/kg
FTI72-94-6-16	FTI72-94-6	16.0	VOC	8020	Xylenes	870		15	µg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-6-23.5	FTI72-94-6	23.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-6-31	FTI72-94-6	31.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-6-31	FTI72-94-6	31.0	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-6-31	FTI72-94-6	31.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-6-31	FTI72-94-6	31.0	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-6-31	FTI72-94-6	31.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-6-31	FTI72-94-6	31.0	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-6-31	FTI72-94-6	31.0	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-6-31	FTI72-94-6	31.0	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	TPH	8015M	Diesel	8600		10	mg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	TPH	8015M	Gasoline	2100		5	mg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	TPH	418.1	TRPH	15000		10	mg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	VOC	8020	Ethylbenzene	2300		5	µg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-6-7.5	FTI72-94-6	7.5	VOC	8020	Xylenes	5600		15	µg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	TPH	8015M	Diesel	7800		10	mg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	TPH	8015M	Gasoline	1100		5	mg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	TPH	418.1	TRPH	14000		10	mg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	VOC	8020	Ethylbenzene	1600		5	µg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-7-20.5	FTI72-94-7	20.5	VOC	8020	Xylenes	9100		15	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	1,2,4-Trichlorobenzene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	1,2-Dichlorobenzene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	1,3-Dichlorobenzene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	1,4-Dichlorobenzene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2,4,5-Trichlorophenol	ND		250	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2,4,6-Trichlorophenol	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2,4-Dichlorophenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2,4-Dimethylphenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2,4-Dinitrophenol	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2,4-Dinitrotoluene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2,6-Dinitirotoluene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2-Chloronaphthalene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2-Chlorophenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2-Methyl-4,6-dinitrophenol	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2-Methylnaphthalene	14000		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2-Methylphenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2-Nitroaniline	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	2-Nitrophenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	3,3-Dichlorobenzidine	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	3-Nitroaniline	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	4-Bromophenyl phenyl ether	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	4-Chloro-3-methylphenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	4-Chloroaniline	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	4-Chlorophenyl phenyl ether	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	4-Methylphenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	4-Nitroaniline	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	4-Nitrophenol	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Acenaphthalene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Acenaphthene	600		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Anthracene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Benzo(a)anthracene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Benzo(a)pyrene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Benzo(b)fluoranthene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Benzo(g,h,i)perylene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Benzo(k)fluoranthene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Benzoic acid	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Benzyl alcohol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	bis(2-Chloroethoxy)methane	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	bis(2-Chloroethyl)ether	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	bis(2-Chloroisopropyl)ether	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	bis(2-Ethylhexyl)phthalate	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Butylbenzyl phthalate	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Chrysene	1200		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Dibenzo(a,h)anthracene	ND		50	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Dibenzofuran	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Diethyl phthalate	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Dimethyl phthalate	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Di-n-butyl phthalate	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Di-n-octylphthalate	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Fluoranthene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Fluorene	1100		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Hexachlorobenzene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Hexachlorobutadiene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Hexachlorocyclopentadiene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Hexachloroethane	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Indeno(1,2,3-cd)pyrene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Isophorone	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Naphthalene	3300		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Nitrobenzene	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	N-nitrosodi-n-propylamine	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	N-Nitrosodiphenylamine	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Pentachlorophenol	ND		250	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Phenanthrene	2500		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Phenol	ND		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	SVOC	8270	Pyrene	860		50	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	TPH	8015M	Diesel	4500		10	mg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	TPH	8015M	Gasoline	820		5	mg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	TPH	418.1	TRPH	14000		10	mg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	VOC	8020	Ethylbenzene	740		5	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-7-26.5	FTI72-94-7	26.5	VOC	8020	Xylenes	4200		15	µg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	TPH	8015M	Diesel	580		10	mg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	TPH	8015M	Gasoline	97		5	mg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	TPH	418.1	TRPH	53		10	mg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	VOC	8020	Ethylbenzene	25		5	µg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-7-30.5	FTI72-94-7	30.5	VOC	8020	Xylenes	290		15	µg/kg
FTI72-94-7-35.5	FTI72-94-7	35.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-7-35.5	FTI72-94-7	35.5	TPH	8015M	Gasoline	ND		5	mg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-7-35.5	FTI72-94-7	35.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-7-35.5	FTI72-94-7	35.5	TPH	418.1	TRPH	12		10	mg/kg
FTI72-94-7-35.5	FTI72-94-7	35.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-7-35.5	FTI72-94-7	35.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-7-35.5	FTI72-94-7	35.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-7-35.5	FTI72-94-7	35.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-7-45.5	FTI72-94-7	45.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	1,2,4-Trichlorobenzene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	1,2-Dichlorobenzene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	1,3-Dichlorobenzene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	1,4-Dichlorobenzene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2,4,5-Trichlorophenol	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2,4,6-Trichlorophenol	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2,4-Dichlorophenol	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2,4-Dimethylphenol	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2,4-Dinitrophenol	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2,4-Dinitrotoluene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2,6-Dinitirotoluene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2-Chloronaphthalene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2-Chlorophenol	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2-Methyl-4,6-dinitrophenol	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2-Methylnaphthalene	48000		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2-Methylphenol	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2-Nitroaniline	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	2-Nitrophenol	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	3,3-Dichlorobenzidine	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	3-Nitroaniline	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	4-Bromophenyl phenyl ether	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	4-Chloro-3-methylphenol	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	4-Chloroaniline	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	4-Chlorophenyl phenyl ether	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	4-Methylphenol	ND		100	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	4-Nitroaniline	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	4-Nitrophenol	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Acenaphthalene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Acenaphthene	2200		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Anthracene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Benzo(a)anthracene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Benzo(a)pyrene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Benzo(b)fluoranthene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Benzo(g,h,i)perylene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Benzo(k)fluoranthene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Benzoic acid	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Benzyl alcohol	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	bis(2-Chloroethoxy)methane	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	bis(2-Chloroethyl)ether	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	bis(2-Chloroisopropyl)ether	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	bis(2-Ethylhexyl)phthalate	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Butylbenzyl phthalate	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Chrysene	4300		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Dibenzo(a,h)anthracene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Dibenzofuran	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Diethyl phthalate	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Dimethyl phthalate	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Di-n-butyl phthalate	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Di-n-octylphthalate	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Fluoranthene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Fluorene	4800		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Hexachlorobenzene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Hexachlorobutadiene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Hexachlorocyclopentadiene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Hexachloroethane	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Indeno(1,2,3-cd)pyrene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Isophorone	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Naphthalene	12000		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Nitrobenzene	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	N-nitrosodi-n-propylamine	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	N-Nitrosodiphenylamine	ND		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Pentachlorophenol	ND		500	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Phenanthrene	10000		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Phenol	ND		100	µg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-8-10.5	FTI72-94-8	10.5	SVOC	8270	Pyrene	2800		100	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	TPH	8015M	Diesel	9700		10	mg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	TPH	8015M	Gasoline	490		5	mg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	TPH	418.1	TRPH	13000		10	mg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	VOC	8020	Ethylbenzene	800		5	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-8-10.5	FTI72-94-8	10.5	VOC	8020	Xylenes	2500		15	µg/kg
FTI72-94-8-16	FTI72-94-8	16.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-8-16	FTI72-94-8	16.0	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-8-16	FTI72-94-8	16.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-8-16	FTI72-94-8	16.0	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-8-16	FTI72-94-8	16.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-8-16	FTI72-94-8	16.0	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-8-16	FTI72-94-8	16.0	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-8-16	FTI72-94-8	16.0	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	TPH	418.1	TRPH	ND		10	mg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-8-31.5	FTI72-94-8	31.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Antimony	ND		2	mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Arsenic	1.4			mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Barium	140			mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Beryllium	0.56			mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Cobalt	4.1			mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Copper	10			mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Mercury	ND		0.07	mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Molybdenum	ND		1	mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Selenium	ND		0.4	mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Silver	ND		0.3	mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Thallium	ND		0.4	mg/kg
FTI72-94-8-5.5	FTI72-94-8	5.5	METALS	6000/7000	Vanadium	20			mg/kg
FTI72-94-9-11.5	FTI72-94-9	11.5	TPH	8015M	Diesel	8500		10	mg/kg
FTI72-94-9-11.5	FTI72-94-9	11.5	TPH	8015M	Gasoline	ND		5	mg/kg

TABLE B-3

POST-REMOVAL SITE ASSESSMENT DATA, AUGUST 1994, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FTI72-94-9-11.5	FTI72-94-9	11.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-9-11.5	FTI72-94-9	11.5	TPH	418.1	TRPH	13		10	mg/kg
FTI72-94-9-11.5	FTI72-94-9	11.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-9-11.5	FTI72-94-9	11.5	VOC	8020	Ethylbenzene	5200		5	µg/kg
FTI72-94-9-11.5	FTI72-94-9	11.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-9-11.5	FTI72-94-9	11.5	VOC	8020	Xylenes	16000		15	µg/kg
FTI72-94-9-36	FTI72-94-9	36.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-9-36	FTI72-94-9	36.0	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-9-36	FTI72-94-9	36.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-9-36	FTI72-94-9	36.0	TPH	418.1	TRPH	17		10	mg/kg
FTI72-94-9-36	FTI72-94-9	36.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-9-36	FTI72-94-9	36.0	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-9-36	FTI72-94-9	36.0	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-9-36	FTI72-94-9	36.0	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-9-46	FTI72-94-9	46.0	TPH	8015M	Diesel	ND		10	mg/kg
FTI72-94-9-46	FTI72-94-9	46.0	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-9-46	FTI72-94-9	46.0	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-9-46	FTI72-94-9	46.0	TPH	418.1	TRPH	13		10	mg/kg
FTI72-94-9-46	FTI72-94-9	46.0	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-9-46	FTI72-94-9	46.0	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-9-46	FTI72-94-9	46.0	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-9-46	FTI72-94-9	46.0	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	TPH	8015M	Diesel	130		10	mg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	TPH	8015M	Gasoline	ND		5	mg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	TPH	8015M	Motor Oil	ND		50	mg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	TPH	418.1	TRPH	3400		10	mg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	VOC	8020	Benzene	ND		5	µg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	VOC	8020	Ethylbenzene	ND		5	µg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	VOC	8020	Toluene	ND		5	µg/kg
FTI72-94-9-7.5	FTI72-94-9	7.5	VOC	8020	Xylenes	ND		15	µg/kg
FTI72-94-10	FTI72-94-10	no chemical data collected							
FTI72-94-11	FTI72-94-11	no chemical data collected							

TABLE B-4

BACKGROUND METALS IN SOIL CONCENTRATIONS, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Analyte	Min (mg/kg)	Max (mg/kg)	Mean (mg/kg)	Median (mg/kg)	95% UTL (mg/kg)
Aluminum	2920	29900	9790	8420	23600
Antimony	1.54	6.46	2.74	2.11	6.34
Arsenic	0.642	26.3	2.94	2.18	9.14
Barium	13.9	252	65.3	58.5	175
Beryllium	0.171	1.88	0.482	0.43	1.17
Cadmium	0.0417	0.668	0.184	0.193	0.416
Chromium	1.61	63.3	9.94	6.65	27.7
Cobalt	0.814	13.9	4.88	4.14	12.9
Copper	1.77	34.8	10.4	7.54	28.7
Hexavalent Chromium	0.109	0.62	0.398	0.392	0.512
Lead	0.988	9.49	3.83	3.72	7.33
Manganese	80.3	402	203	200	361
Mercury	0.0587	0.39	0.129	0.0915	0.202
Molybdenum	1.15	3.5	1.87	1.66	4.58
Nickel	1.34	35.9	8.24	7.1	29.1
Selenium	0.553	0.553	0.553	0.553	n/a
Silver	0.186	0.186	0.186	0.186	n/a
Thallium	0.702	2.05	1.42	1.74	1.91
Vanadium	5.98	166	25.6	18.9	97
Zinc	15.6	79.2	29.2	26.4	51

Values summarized from Tables 5.3.2-1 and 5.3.5.1-1 in

"Site Inspections for Cantonment Area Sites FTIR-11, -12A, -12B, -16, -18, -19, -35, and -36, and Field Support Site FTIR-33; Final." Parsons. 1998.

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0021	FT00-2701	21.0	METALS	6000/7000	Cadmium	0.83		0.27	mg/kg
FT00-2701-0021	FT00-2701	21.0	METALS	6000/7000	Chromium	6.7		0.53	mg/kg
FT00-2701-0021	FT00-2701	21.0	METALS	6000/7000	Lead	3.5		0.16	mg/kg
FT00-2701-0021	FT00-2701	21.0	METALS	6000/7000	Mercury	ND		0.021	mg/kg
FT00-2701-0021	FT00-2701	21.0	METALS	6000/7000	Nickel	9.3		1.1	mg/kg
FT00-2701-0021	FT00-2701	21.0	METALS	6000/7000	Zinc	16		1.1	mg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	1,2,4-Trichlorobenzene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	1,2-Dichlorobenzene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	1,3-Dichlorobenzene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	1,4-Dichlorobenzene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2,4,5-Trichlorophenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2,4,6-Trichlorophenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2,4-Dichlorophenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2,4-Dimethylphenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2,4-Dinitrophenol	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2,4-Dinitrotoluene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2,6-Dinitirotoluene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2-Chloronaphthalene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2-Chlorophenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2-Methyl-4,6-dinitrophenol	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2-Methylnaphthalene	73000		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2-Methylphenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2-Nitroaniline	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	2-Nitrophenol	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	3,3-Dichlorobenzidine	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	3-,4-Methylphenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	3-Nitroaniline	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	4-Bromophenyl phenyl ether	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	4-Chloro-3-methylphenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	4-Chloroaniline	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	4-Chlorophenyl phenyl ether	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	4-Nitroaniline	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	4-Nitrophenol	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Acenaphthalene	3500	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Acenaphthene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Anthracene	3800	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Benzo(a)anthracene	2900	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Benzo(a)pyrene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Benzo(b)fluoranthene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Benzo(g,h,i)perylene	ND		23000	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Benzo(k)fluoranthene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Benzyl alcohol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	bis(2-Chloroethoxy)methane	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	bis(2-Chloroethyl)ether	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	bis(2-Chloroisopropyl)ether	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	bis(2-Ethylhexyl)phthalate	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Butylbenzyl phthalate	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Chrysene	6500	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Dibenzo(a,h)anthracene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Dibenzofuran	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Diethyl phthalate	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Dimethyl phthalate	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Di-n-butyl phthalate	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Di-n-octylphthalate	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Fluoranthene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Fluorene	7200	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Hexachlorobenzene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Hexachlorobutadiene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Hexachlorocyclopentadiene	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Hexachloroethane	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Indeno(1,2,3-cd)pyrene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Isophorone	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Naphthalene	16000	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Nitrobenzene	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	N-nitrosodi-n-propylamine	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	N-Nitrosodiphenylamine	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Pentachlorophenol	ND		120000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Phenanthrene	19000	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Phenol	ND		23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	SVOC	8270C	Pyrene	6700	J	23000	µg/kg
FT00-2701-0021	FT00-2701	21.0	TPH	8015M	Bunker C	33000		270	mg/kg
FT00-2701-0021	FT00-2701	21.0	TPH	8015M	Diesel	11000		53	mg/kg
FT00-2701-0021	FT00-2701	21.0	TPH	8015M	Gasoline	14		0.33	mg/kg
FT00-2701-0021	FT00-2701	21.0	TPH	8015M	Motor Oil	6500		270	mg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,1,1-Trichloroethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,1,2,2-Tetrachloroethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,1,2-Trichloroethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,1-Dichloroethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,1-Dichloroethene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,2-Dichlorobenzene	1500		380	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,2-Dichloroethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,2-Dichloropropane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,3-Dichlorobenzene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	1,4-Dichlorobenzene	770		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	2-Butanone	130	J	750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	2-Hexanone	ND		750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	4-Methyl-2-pentanone	ND		750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Acetone	150	J	1500	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Benzene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Bromodichloromethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Bromoform	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Bromomethane	ND		750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	c-1,2-Dichloroethene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	c-1,3-Dichloropropene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Carbon disulfide	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Carbon tetrachloride	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Chlorobenzene	20	J	380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Chloroethane	ND		750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Chloroform	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Chloromethane	ND		750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Dibromochloromethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Ethylbenzene	110	J	380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Freon 113	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Freon 12	ND		750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Methylene Chloride	110	J	1500	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	MtBE	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Styrene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	t-1,2-Dichloroethene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	t-1,3-Dichloropropene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Tetrachloroethene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Toluene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Trichloroethene	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Trichlorofluoromethane	ND		380	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Vinyl acetate	ND		3800	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Vinyl chloride	ND		750	µg/kg
FT00-2701-0021	FT00-2701	21.0	VOC	8260B	Xylenes	890		380	µg/kg
FT00-2701-0031	FT00-2701	31.0	METALS	6000/7000	Cadmium	1.2		0.27	mg/kg
FT00-2701-0031	FT00-2701	31.0	METALS	6000/7000	Chromium	9.8		0.54	mg/kg
FT00-2701-0031	FT00-2701	31.0	METALS	6000/7000	Lead	4.1		0.16	mg/kg
FT00-2701-0031	FT00-2701	31.0	METALS	6000/7000	Mercury	ND		0.022	mg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0031	FT00-2701	31.0	METALS	6000/7000	Nickel	12		1.1	mg/kg
FT00-2701-0031	FT00-2701	31.0	METALS	6000/7000	Zinc	22		1.1	mg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	1,2,4-Trichlorobenzene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	1,2-Dichlorobenzene	370	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	1,3-Dichlorobenzene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	1,4-Dichlorobenzene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2,4,5-Trichlorophenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2,4,6-Trichlorophenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2,4-Dichlorophenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2,4-Dimethylphenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2,4-Dinitrophenol	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2,4-Dinitrotoluene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2,6-Dinitirotoluene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2-Chloronaphthalene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2-Chlorophenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2-Methyl-4,6-dinitrophenol	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2-Methylnaphthalene	18000		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2-Methylphenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2-Nitroaniline	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	2-Nitrophenol	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	3,3-Dichlorobenzidine	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	3-,4-Methylphenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	3-Nitroaniline	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	4-Bromophenyl phenyl ether	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	4-Chloro-3-methylphenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	4-Chloroaniline	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	4-Chlorophenyl phenyl ether	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	4-Nitroaniline	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	4-Nitrophenol	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Acenaphthalene	920	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Acenaphthene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Anthracene	1000	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Benzo(a)anthracene	860	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Benzo(a)pyrene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Benzo(b)fluoranthene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Benzo(g,h,i)perylene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Benzo(k)fluoranthene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Benzyl alcohol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	bis(2-Chloroethoxy)methane	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	bis(2-Chloroethyl)ether	ND		3700	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	bis(2-Chloroisopropyl)ether	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	bis(2-Ethylhexyl)phthalate	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Butylbenzyl phthalate	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Chrysene	1600	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Dibenzo(a,h)anthracene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Dibenzofuran	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Diethyl phthalate	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Dimethyl phthalate	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Di-n-butyl phthalate	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Di-n-octylphthalate	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Fluoranthene	400	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Fluorene	2000	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Hexachlorobenzene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Hexachlorobutadiene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Hexachlorocyclopentadiene	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Hexachloroethane	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Indeno(1,2,3-cd)pyrene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Isophorone	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Naphthalene	4600		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Nitrobenzene	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	N-nitrosodi-n-propylamine	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	N-Nitrosodiphenylamine	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Pentachlorophenol	ND		19000	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Phenanthrene	5100		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Phenol	ND		3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	SVOC	8270C	Pyrene	2000	J	3700	µg/kg
FT00-2701-0031	FT00-2701	31.0	TPH	8015M	Bunker C	11000		55	mg/kg
FT00-2701-0031	FT00-2701	31.0	TPH	8015M	Diesel	3700		11	mg/kg
FT00-2701-0031	FT00-2701	31.0	TPH	8015M	Gasoline	ND		0.22	mg/kg
FT00-2701-0031	FT00-2701	31.0	TPH	8015M	Motor Oil	2300		55	mg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,1,1-Trichloroethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,1,2,2-Tetrachloroethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,1,2-Trichloroethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,1-Dichloroethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,1-Dichloroethene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,2-Dichlorobenzene	4900		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,2-Dichloroethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,2-Dichloropropane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,3-Dichlorobenzene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	1,4-Dichlorobenzene	2200		390	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	2-Butanone	150	J	780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	2-Hexanone	ND		780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	4-Methyl-2-pentanone	ND		780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Acetone	260	J	1600	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Benzene	62	J	390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Bromodichloromethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Bromoform	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Bromomethane	ND		780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	c-1,2-Dichloroethene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	c-1,3-Dichloropropene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Carbon disulfide	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Carbon tetrachloride	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Chlorobenzene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Chloroethane	ND		780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Chloroform	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Chloromethane	ND		780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Dibromochloromethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Ethylbenzene	1400		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Freon 113	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Freon 12	ND		780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Methylene Chloride	ND		1600	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	MtBE	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Styrene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	t-1,2-Dichloroethene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	t-1,3-Dichloropropene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Tetrachloroethene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Toluene	460		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Trichloroethene	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Trichlorofluoromethane	ND		390	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Vinyl acetate	ND		3900	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Vinyl chloride	ND		780	µg/kg
FT00-2701-0031	FT00-2701	31.0	VOC	8260B	Xylenes	7300		390	µg/kg
FT00-2701-0047	FT00-2701	47.0	METALS	6000/7000	Cadmium	0.73		0.26	mg/kg
FT00-2701-0047	FT00-2701	47.0	METALS	6000/7000	Chromium	6.7		0.53	mg/kg
FT00-2701-0047	FT00-2701	47.0	METALS	6000/7000	Lead	2.8		0.16	mg/kg
FT00-2701-0047	FT00-2701	47.0	METALS	6000/7000	Mercury	ND		0.022	mg/kg
FT00-2701-0047	FT00-2701	47.0	METALS	6000/7000	Nickel	7.6		1.1	mg/kg
FT00-2701-0047	FT00-2701	47.0	METALS	6000/7000	Zinc	13		1.1	mg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	1,2,4-Trichlorobenzene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	1,2-Dichlorobenzene	ND		370	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	1,3-Dichlorobenzene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	1,4-Dichlorobenzene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2,4,5-Trichlorophenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2,4,6-Trichlorophenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2,4-Dichlorophenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2,4-Dimethylphenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2,4-Dinitrophenol	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2,4-Dinitrotoluene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2,6-Dinitirotoluene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2-Chloronaphthalene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2-Chlorophenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2-Methyl-4,6-dinitrophenol	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2-Methylnaphthalene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2-Methylphenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2-Nitroaniline	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	2-Nitrophenol	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	3,3-Dichlorobenzidine	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	3-,4-Methylphenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	3-Nitroaniline	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	4-Bromophenyl phenyl ether	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	4-Chloro-3-methylphenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	4-Chloroaniline	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	4-Chlorophenyl phenyl ether	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	4-Nitroaniline	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	4-Nitrophenol	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Acenaphthalene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Acenaphthene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Anthracene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Benzo(a)anthracene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Benzo(a)pyrene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Benzo(b)fluoranthene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Benzo(g,h,i)perylene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Benzo(k)fluoranthene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Benzyl alcohol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	bis(2-Chloroethoxy)methane	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	bis(2-Chloroethyl)ether	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	bis(2-Chloroisopropyl)ether	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	bis(2-Ethylhexyl)phthalate	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Butylbenzyl phthalate	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Chrysene	ND		370	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Dibenzo(a,h)anthracene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Dibenzofuran	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Diethyl phthalate	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Dimethyl phthalate	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Di-n-butyl phthalate	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Di-n-octylphthalate	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Fluoranthene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Fluorene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Hexachlorobenzene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Hexachlorobutadiene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Hexachlorocyclopentadiene	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Hexachloroethane	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Indeno(1,2,3-cd)pyrene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Isophorone	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Naphthalene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Nitrobenzene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	N-nitrosodi-n-propylamine	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	N-Nitrosodiphenylamine	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Pentachlorophenol	ND		1800	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Phenanthrene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Phenol	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	SVOC	8270C	Pyrene	ND		370	µg/kg
FT00-2701-0047	FT00-2701	47.0	TPH	8015M	Bunker C	ND		5.4	mg/kg
FT00-2701-0047	FT00-2701	47.0	TPH	8015M	Diesel	ND		1.1	mg/kg
FT00-2701-0047	FT00-2701	47.0	TPH	8015M	Gasoline	ND		0.51	mg/kg
FT00-2701-0047	FT00-2701	47.0	TPH	8015M	Motor Oil	ND		5.4	mg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,1,1-Trichloroethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,1,2,2-Tetrachloroethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,1,2-Trichloroethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,1-Dichloroethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,1-Dichloroethene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,2-Dichlorobenzene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,2-Dichloroethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,2-Dichloropropane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,3-Dichlorobenzene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	1,4-Dichlorobenzene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	2-Butanone	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	2-Hexanone	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	4-Methyl-2-pentanone	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Acetone	ND		46	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Benzene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Bromodichloromethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Bromoform	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Bromomethane	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	c-1,2-Dichloroethene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	c-1,3-Dichloropropene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Carbon disulfide	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Carbon tetrachloride	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Chlorobenzene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Chloroethane	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Chloroform	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Chloromethane	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Dibromochloromethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Ethylbenzene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Freon 113	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Freon 12	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Methylene Chloride	ND		46	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	MtBE	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Styrene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	t-1,2-Dichloroethene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	t-1,3-Dichloropropene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Tetrachloroethene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Toluene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Trichloroethene	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Trichlorofluoromethane	ND		11	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Vinyl acetate	ND		110	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Vinyl chloride	ND		23	µg/kg
FT00-2701-0047	FT00-2701	47.0	VOC	8260B	Xylenes	ND		11	µg/kg
FT00-2702-0011	FT00-2702	11.0	METALS	6000/7000	Cadmium	0.82		0.26	mg/kg
FT00-2702-0011	FT00-2702	11.0	METALS	6000/7000	Chromium	4.5		0.51	mg/kg
FT00-2702-0011	FT00-2702	11.0	METALS	6000/7000	Lead	3		0.15	mg/kg
FT00-2702-0011	FT00-2702	11.0	METALS	6000/7000	Mercury	ND		0.021	mg/kg
FT00-2702-0011	FT00-2702	11.0	METALS	6000/7000	Nickel	8.5		1	mg/kg
FT00-2702-0011	FT00-2702	11.0	METALS	6000/7000	Zinc	16		1	mg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	1,2,4-Trichlorobenzene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	1,2-Dichlorobenzene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	1,3-Dichlorobenzene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	1,4-Dichlorobenzene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2,4,5-Trichlorophenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2,4,6-Trichlorophenol	ND		18000	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2,4-Dichlorophenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2,4-Dimethylphenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2,4-Dinitrophenol	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2,4-Dinitrotoluene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2,6-Dinitirotoluene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2-Chloronaphthalene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2-Chlorophenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2-Methyl-4,6-dinitrophenol	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2-Methylnaphthalene	34000		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2-Methylphenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2-Nitroaniline	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	2-Nitrophenol	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	3,3-Dichlorobenzidine	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	3-,4-Methylphenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	3-Nitroaniline	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	4-Bromophenyl phenyl ether	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	4-Chloro-3-methylphenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	4-Chloroaniline	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	4-Chlorophenyl phenyl ether	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	4-Nitroaniline	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	4-Nitrophenol	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Acenaphthalene	4500	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Acenaphthene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Anthracene	3300	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Benzo(a)anthracene	1900	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Benzo(a)pyrene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Benzo(b)fluoranthene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Benzo(g,h,i)perylene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Benzo(k)fluoranthene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Benzyl alcohol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	bis(2-Chloroethoxy)methane	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	bis(2-Chloroethyl)ether	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	bis(2-Chloroisopropyl)ether	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	bis(2-Ethylhexyl)phthalate	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Butylbenzyl phthalate	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Chrysene	2900	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Dibenzo(a,h)anthracene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Dibenzofuran	1900	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Diethyl phthalate	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Dimethyl phthalate	ND		18000	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Di-n-butyl phthalate	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Di-n-octylphthalate	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Fluoranthene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Fluorene	6300	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Hexachlorobenzene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Hexachlorobutadiene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Hexachlorocyclopentadiene	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Hexachloroethane	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Indeno(1,2,3-cd)pyrene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Isophorone	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Naphthalene	6800	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Nitrobenzene	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	N-nitrosodi-n-propylamine	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	N-Nitrosodiphenylamine	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Pentachlorophenol	ND		90000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Phenanthrene	16000	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Phenol	ND		18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	SVOC	8270C	Pyrene	4000	J	18000	µg/kg
FT00-2702-0011	FT00-2702	11.0	TPH	8015M	Bunker C	29000		130	mg/kg
FT00-2702-0011	FT00-2702	11.0	TPH	8015M	Diesel	10000		27	mg/kg
FT00-2702-0011	FT00-2702	11.0	TPH	8015M	Gasoline	160		11	mg/kg
FT00-2702-0011	FT00-2702	11.0	TPH	8015M	Motor Oil	4600		130	mg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,1,1-Trichloroethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,1,2,2-Tetrachloroethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,1,2-Trichloroethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,1-Dichloroethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,1-Dichloroethene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,2-Dichlorobenzene	330	J	450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,2-Dichloroethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,2-Dichloropropane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,3-Dichlorobenzene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	1,4-Dichlorobenzene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	2-Butanone	120	J	900	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	2-Hexanone	ND		900	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	4-Methyl-2-pentanone	ND		900	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Acetone	180	J	1800	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Benzene	32	J	450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Bromodichloromethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Bromoform	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Bromomethane	ND		900	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	c-1,2-Dichloroethene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	c-1,3-Dichloropropene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Carbon disulfide	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Carbon tetrachloride	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Chlorobenzene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Chloroethane	ND		900	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Chloroform	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Chloromethane	ND		900	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Dibromochloromethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Ethylbenzene	1000		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Freon 113	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Freon 12	ND		900	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Methylene Chloride	ND		1800	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	MtBE	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Styrene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	t-1,2-Dichloroethene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	t-1,3-Dichloropropene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Tetrachloroethene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Toluene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Trichloroethene	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Trichlorofluoromethane	ND		450	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Vinyl acetate	ND		4500	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Vinyl chloride	ND		900	µg/kg
FT00-2702-0011	FT00-2702	11.0	VOC	8260B	Xylenes	4400		450	µg/kg
FT00-2702-0046	FT00-2702	46.0	METALS	6000/7000	Cadmium	0.91		0.26	mg/kg
FT00-2702-0046	FT00-2702	46.0	METALS	6000/7000	Chromium	17		0.51	mg/kg
FT00-2702-0046	FT00-2702	46.0	METALS	6000/7000	Lead	4.6		0.15	mg/kg
FT00-2702-0046	FT00-2702	46.0	METALS	6000/7000	Mercury	ND		0.021	mg/kg
FT00-2702-0046	FT00-2702	46.0	METALS	6000/7000	Nickel	9.4		1	mg/kg
FT00-2702-0046	FT00-2702	46.0	METALS	6000/7000	Zinc	18		1	mg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	1,2,4-Trichlorobenzene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	1,2-Dichlorobenzene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	1,3-Dichlorobenzene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	1,4-Dichlorobenzene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2,4,5-Trichlorophenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2,4,6-Trichlorophenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2,4-Dichlorophenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2,4-Dimethylphenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2,4-Dinitrophenol	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2,4-Dinitrotoluene	ND		3500	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2,6-Dinitirotoluene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2-Chloronaphthalene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2-Chlorophenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2-Methyl-4,6-dinitrophenol	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2-Methylnaphthalene	11000		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2-Methylphenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2-Nitroaniline	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	2-Nitrophenol	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	3,3-Dichlorobenzidine	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	3-,4-Methylphenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	3-Nitroaniline	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	4-Bromophenyl phenyl ether	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	4-Chloro-3-methylphenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	4-Chloroaniline	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	4-Chlorophenyl phenyl ether	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	4-Nitroaniline	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	4-Nitrophenol	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Acenaphthalene	700	J	3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Acenaphthene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Anthracene	590	J	3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Benzo(a)anthracene	440	J	3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Benzo(a)pyrene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Benzo(b)fluoranthene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Benzo(g,h,i)perylene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Benzo(k)fluoranthene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Benzyl alcohol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	bis(2-Chloroethoxy)methane	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	bis(2-Chloroethyl)ether	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	bis(2-Chloroisopropyl)ether	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	bis(2-Ethylhexyl)phthalate	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Butylbenzyl phthalate	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Chrysene	880	J	3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Dibenzo(a,h)anthracene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Dibenzofuran	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Diethyl phthalate	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Dimethyl phthalate	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Di-n-butyl phthalate	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Di-n-octylphthalate	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Fluoranthene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Fluorene	1200	J	3500	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Hexachlorobenzene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Hexachlorobutadiene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Hexachlorocyclopentadiene	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Hexachloroethane	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Indeno(1,2,3-cd)pyrene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Isophorone	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Naphthalene	2500	J	3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Nitrobenzene	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	N-nitrosodi-n-propylamine	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	N-Nitrosodiphenylamine	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Pentachlorophenol	ND		18000	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Phenanthrene	2700	J	3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Phenol	ND		3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	SVOC	8270C	Pyrene	1200	J	3500	µg/kg
FT00-2702-0046	FT00-2702	46.0	TPH	8015M	Bunker C	3200		27	mg/kg
FT00-2702-0046	FT00-2702	46.0	TPH	8015M	Diesel	1000		5.3	mg/kg
FT00-2702-0046	FT00-2702	46.0	TPH	8015M	Gasoline	ND		1	mg/kg
FT00-2702-0046	FT00-2702	46.0	TPH	8015M	Motor Oil	6900		27	mg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,1,1-Trichloroethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,1,2,2-Tetrachloroethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,1,2-Trichloroethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,1-Dichloroethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,1-Dichloroethene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,2-Dichlorobenzene	3	J	22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,2-Dichloroethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,2-Dichloropropane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,3-Dichlorobenzene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	1,4-Dichlorobenzene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	2-Butanone	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	2-Hexanone	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	4-Methyl-2-pentanone	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Acetone	15	J	89	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Benzene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Bromodichloromethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Bromoform	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Bromomethane	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	c-1,2-Dichloroethene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	c-1,3-Dichloropropene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Carbon disulfide	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Carbon tetrachloride	ND		22	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Chlorobenzene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Chloroethane	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Chloroform	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Chloromethane	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Dibromochloromethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Ethylbenzene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Freon 113	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Freon 12	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Methylene Chloride	ND		89	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	MtBE	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Styrene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	t-1,2-Dichloroethene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	t-1,3-Dichloropropene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Tetrachloroethene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Toluene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Trichloroethene	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Trichlorofluoromethane	ND		22	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Vinyl acetate	ND		220	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Vinyl chloride	ND		44	µg/kg
FT00-2702-0046	FT00-2702	46.0	VOC	8260B	Xylenes	ND		22	µg/kg
FT00-2703-0030	FT00-2703	30.0	METALS	6000/7000	Cadmium	0.73		0.26	mg/kg
FT00-2703-0030	FT00-2703	30.0	METALS	6000/7000	Chromium	6.9		0.51	mg/kg
FT00-2703-0030	FT00-2703	30.0	METALS	6000/7000	Lead	3		0.15	mg/kg
FT00-2703-0030	FT00-2703	30.0	METALS	6000/7000	Mercury	ND		0.021	mg/kg
FT00-2703-0030	FT00-2703	30.0	METALS	6000/7000	Nickel	6.8		1	mg/kg
FT00-2703-0030	FT00-2703	30.0	METALS	6000/7000	Zinc	13		1	mg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	1,2,4-Trichlorobenzene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	1,2-Dichlorobenzene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	1,3-Dichlorobenzene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	1,4-Dichlorobenzene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2,4,5-Trichlorophenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2,4,6-Trichlorophenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2,4-Dichlorophenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2,4-Dimethylphenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2,4-Dinitrophenol	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2,4-Dinitrotoluene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2,6-Dinitirotoluene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2-Chloronaphthalene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2-Chlorophenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2-Methyl-4,6-dinitrophenol	ND		8600	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2-Methylnaphthalene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2-Methylphenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2-Nitroaniline	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	2-Nitrophenol	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	3,3-Dichlorobenzidine	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	3-,4-Methylphenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	3-Nitroaniline	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	4-Bromophenyl phenyl ether	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	4-Chloro-3-methylphenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	4-Chloroaniline	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	4-Chlorophenyl phenyl ether	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	4-Nitroaniline	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	4-Nitrophenol	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Acenaphthalene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Acenaphthene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Anthracene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Benzo(a)anthracene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Benzo(a)pyrene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Benzo(b)fluoranthene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Benzo(g,h,i)perylene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Benzo(k)fluoranthene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Benzyl alcohol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	bis(2-Chloroethoxy)methane	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	bis(2-Chloroethyl)ether	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	bis(2-Chloroisopropyl)ether	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	bis(2-Ethylhexyl)phthalate	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Butylbenzyl phthalate	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Chrysene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Dibenzo(a,h)anthracene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Dibenzofuran	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Diethyl phthalate	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Dimethyl phthalate	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Di-n-butyl phthalate	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Di-n-octylphthalate	ND		3500	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Fluoranthene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Fluorene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Hexachlorobenzene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Hexachlorobutadiene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Hexachlorocyclopentadiene	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Hexachloroethane	ND		1700	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Indeno(1,2,3-cd)pyrene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Isophorone	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Naphthalene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Nitrobenzene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	N-nitrosodi-n-propylamine	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	N-Nitrosodiphenylamine	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Pentachlorophenol	ND		8600	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Phenanthrene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Phenol	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	SVOC	8270C	Pyrene	ND		1700	µg/kg
FT00-2703-0030	FT00-2703	30.0	TPH	8015M	Bunker C	470		26	mg/kg
FT00-2703-0030	FT00-2703	30.0	TPH	8015M	Diesel	34		5.2	mg/kg
FT00-2703-0030	FT00-2703	30.0	TPH	8015M	Gasoline	ND		0.39	mg/kg
FT00-2703-0030	FT00-2703	30.0	TPH	8015M	Motor Oil	180		26	mg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,1,1-Trichloroethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,1,2,2-Tetrachloroethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,1,2-Trichloroethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,1-Dichloroethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,1-Dichloroethene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,2-Dichlorobenzene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,2-Dichloroethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,2-Dichloropropane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,3-Dichlorobenzene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	1,4-Dichlorobenzene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	2-Butanone	ND		25	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	2-Hexanone	ND		25	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	4-Methyl-2-pentanone	ND		25	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Acetone	ND		50	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Benzene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Bromodichloromethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Bromoform	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Bromomethane	ND		25	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	c-1,2-Dichloroethene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	c-1,3-Dichloropropene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Carbon disulfide	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Carbon tetrachloride	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Chlorobenzene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Chloroethane	ND		25	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Chloroform	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Chloromethane	ND		25	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Dibromochloromethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Ethylbenzene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Freon 113	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Freon 12	ND		25	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Methylene Chloride	ND		50	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	MtBE	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Styrene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	t-1,2-Dichloroethene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	t-1,3-Dichloropropene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Tetrachloroethene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Toluene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Trichloroethene	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Trichlorofluoromethane	ND		12	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Vinyl acetate	ND		120	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Vinyl chloride	ND		25	µg/kg
FT00-2703-0030	FT00-2703	30.0	VOC	8260B	Xylenes	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	METALS	6000/7000	Cadmium	1		0.26	mg/kg
FT00-2704-0031	FT00-2704	31.0	METALS	6000/7000	Chromium	23		0.51	mg/kg
FT00-2704-0031	FT00-2704	31.0	METALS	6000/7000	Lead	9		0.15	mg/kg
FT00-2704-0031	FT00-2704	31.0	METALS	6000/7000	Mercury	ND		0.021	mg/kg
FT00-2704-0031	FT00-2704	31.0	METALS	6000/7000	Nickel	9.8		1	mg/kg
FT00-2704-0031	FT00-2704	31.0	METALS	6000/7000	Zinc	21		1	mg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	1,2,4-Trichlorobenzene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	1,2-Dichlorobenzene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	1,3-Dichlorobenzene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	1,4-Dichlorobenzene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2,4,5-Trichlorophenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2,4,6-Trichlorophenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2,4-Dichlorophenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2,4-Dimethylphenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2,4-Dinitrophenol	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2,4-Dinitrotoluene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2,6-Dinitirotoluene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2-Chloronaphthalene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2-Chlorophenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2-Methyl-4,6-dinitrophenol	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2-Methylnaphthalene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2-Methylphenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2-Nitroaniline	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	2-Nitrophenol	ND		8600	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	3,3-Dichlorobenzidine	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	3-,4-Methylphenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	3-Nitroaniline	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	4-Bromophenyl phenyl ether	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	4-Chloro-3-methylphenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	4-Chloroaniline	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	4-Chlorophenyl phenyl ether	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	4-Nitroaniline	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	4-Nitrophenol	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Acenaphthalene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Acenaphthene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Anthracene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Benzo(a)anthracene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Benzo(a)pyrene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Benzo(b)fluoranthene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Benzo(g,h,i)perylene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Benzo(k)fluoranthene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Benzyl alcohol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	bis(2-Chloroethoxy)methane	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	bis(2-Chloroethyl)ether	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	bis(2-Chloroisopropyl)ether	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	bis(2-Ethylhexyl)phthalate	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Butylbenzyl phthalate	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Chrysene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Dibenzo(a,h)anthracene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Dibenzofuran	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Diethyl phthalate	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Dimethyl phthalate	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Di-n-butyl phthalate	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Di-n-octylphthalate	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Fluoranthene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Fluorene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Hexachlorobenzene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Hexachlorobutadiene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Hexachlorocyclopentadiene	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Hexachloroethane	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Indeno(1,2,3-cd)pyrene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Isophorone	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Naphthalene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Nitrobenzene	ND		1700	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	N-nitrosodi-n-propylamine	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	N-Nitrosodiphenylamine	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Pentachlorophenol	ND		8600	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Phenanthrene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Phenol	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	SVOC	8270C	Pyrene	ND		1700	µg/kg
FT00-2704-0031	FT00-2704	31.0	TPH	8015M	Bunker C	230		10	mg/kg
FT00-2704-0031	FT00-2704	31.0	TPH	8015M	Diesel	27		2.1	mg/kg
FT00-2704-0031	FT00-2704	31.0	TPH	8015M	Gasoline	ND		0.34	mg/kg
FT00-2704-0031	FT00-2704	31.0	TPH	8015M	Motor Oil	85		10	mg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,1,1-Trichloroethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,1,2,2-Tetrachloroethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,1,2-Trichloroethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,1-Dichloroethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,1-Dichloroethene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,2-Dichlorobenzene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,2-Dichloroethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,2-Dichloropropane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,3-Dichlorobenzene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	1,4-Dichlorobenzene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	2-Butanone	ND		23	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	2-Hexanone	ND		23	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	4-Methyl-2-pentanone	ND		23	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Acetone	16	J	47	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Benzene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Bromodichloromethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Bromoform	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Bromomethane	ND		23	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	c-1,2-Dichloroethene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	c-1,3-Dichloropropene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Carbon disulfide	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Carbon tetrachloride	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Chlorobenzene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Chloroethane	ND		23	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Chloroform	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Chloromethane	ND		23	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Dibromochloromethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Ethylbenzene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Freon 113	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Freon 12	ND		23	µg/kg

TABLE B-5

SITE VERIFICATION DATA, AUGUST 2000, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Pt. Name	Depth bgs	Method	EPA #	Analyte	Result	Qual	Reporting Limit	Units
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Methylene Chloride	ND		47	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	MtBE	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Styrene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	t-1,2-Dichloroethene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	t-1,3-Dichloropropene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Tetrachloroethene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Toluene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Trichloroethene	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Trichlorofluoromethane	ND		12	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Vinyl acetate	ND		120	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Vinyl chloride	ND		23	µg/kg
FT00-2704-0031	FT00-2704	31.0	VOC	8260B	Xylenes	ND		12	µg/kg

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	PCTMST	PERCENT MOISTURE	16.5		0.0	%MST	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	PH	PH	8.42		0.01		
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	ACENAPHTHENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	ACENAPHTHYLENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	ACETOPHENONE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	ANTHRACENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(A)ANTHRACENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(A)PYRENE	ND		400	UG/KG	I
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(B)FLUORANTHENE	ND		400	UG/KG	I
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(G,H,I)PERYLENE	ND		400	UG/KG	c,I
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(K)FLUORANTHENE	ND		400	UG/KG	I
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BENZOIC ACID	ND		2000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		400	UG/KG	b
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	BUTYLBENZYLPHTHALATE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	CARBAZOLE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLORO-3-METHYLPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLOROANILINE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2-CHLORONAPHTHALENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2-CHLOROPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	CHRYSENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	DI-N-BUTYLPHTHALATE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	DI-N-OCTYLPHTHALATE	ND		400	UG/KG	I
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	DIBENZ(A,H)ANTHRACENE	ND		400	UG/KG	I
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	DIBENZOFURAN	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	3,3'-DICHLOROBENZIDINE	ND		1600	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DICHLOROPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	DIETHYLPHTHALATE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	DIMETHYLPHTHALATE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DIMETHYLPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		4000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DINITROPHENOL	ND		4000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DINITROTOLUENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,6-DINITROTOLUENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	FLUORANTHENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	FLUORENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROBENZENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROBUTADIENE	ND		400	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		410	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROETHANE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	INDENO(1,2,3-CD)PYRENE	ND		400	UG/KG	i
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	ISOPHORONE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2-METHYLNAPHTHALENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	3/4-METHYLPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2-METHYLPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	NAPHTHALENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2-NITROANILINE	ND		4000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	3-NITROANILINE	ND		4000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	4-NITROANILINE	ND		2000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	NITROBENZENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2-NITROPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	4-NITROPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	PENTACHLOROPHENOL	ND		2000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	PHENANTHRENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	PHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	PYRENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	1,2,4-TRICHLOROBENZENE	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,4,5-TRICHLOROPHENOL	ND		2000	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	SVOA	2,4,6-TRICHLOROPHENOL	ND		400	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	TPHEXT	PHC AS DIESEL FUEL	30		12	MG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	TPHEXT	MOTOR OIL	77		12	MG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	TPHPRG	PHC AS GASOLINE	ND		1.4	MG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	ACETONE	ND		58	UG/KG	b,c
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	ACRYLONITRILE	ND		17	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	BENZENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	BROMOCHLOROMETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	BROMODICHLOROMETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	BROMOFORM	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	BROMOMETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	2-BUTANONE (MEK)	ND		120	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CARBON DISULFIDE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CARBON TETRACHLORIDE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROBENZENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CHLORODIBROMOMETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROFORM	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROMETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	DIBROMOMETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,2-DICHLOROBENZENE	ND		5.8	UG/KG	

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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,3-DICHLOROBENZENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,4-DICHLOROBENZENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	DICHLORODIFLUOROMETHANE	ND		5.8	UG/KG	c
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,1-DICHLOROETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,2-DICHLOROETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,1-DICHLOROETHENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,2-DICHLOROPROPANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		17	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	ETHYLBENZENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	2-HEXANONE	ND		17	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	IODOMETHANE	ND		17	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	METHYLENE CHLORIDE	ND		5.8	UG/KG	b
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		58	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	STYRENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	TETRACHLOROETHENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	TOLUENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,1-TRICHLOROETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,2-TRICHLOROETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	TRICHLOROETHENE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	TRICHLOROFLUOROMETHANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	FREON 113	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	VINYL ACETATE	ND		17	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	VINYL CHLORIDE	ND		5.8	UG/KG	
094FTIR027-025	27-2003-B01-10.5-11.0	SOIL	10.5	11	VOA8260	XYLENES (TOTAL)	ND		17	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	PCTMST	PERCENT MOISTURE	4.4		0.0	%MST	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	PH	PH	8.47		0.01		
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	ACENAPHTHENE	4900	J	6900	UG/KG	g
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	ACENAPHTHYLENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	ACETOPHENONE	1400	J	6900	UG/KG	g
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	ANTHRACENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BENZO(A)ANTHRACENE	3500	J	6900	UG/KG	g,i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BENZO(A)PYRENE	ND		6900	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BENZO(B)FLUORANTHENE	ND		6900	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BENZO(G,H,I)PERYLENE	ND		6900	UG/KG	i

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BENZO(K)FLUORANTHENE	ND		6900	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BENZOIC ACID	ND		36000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		6900	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	BUTYLBENZYLPHTHALATE	ND		6900	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	CARBAZOLE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	4-CHLORO-3-METHYLPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	4-CHLOROANILINE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2-CHLORONAPHTHALENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2-CHLOROPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	CHRYSENE	5700	J	6900	UG/KG	g,i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	DI-N-BUTYLPHTHALATE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	DI-N-OCTYLPHTHALATE	ND		6900	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	DIBENZ(A,H)ANTHRACENE	ND		6900	UG/KG	c,i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	DIBENZOFURAN	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	3,3'-DICHLOROBENZIDINE	ND		27000	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,4-DICHLOROPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	DIETHYLPHTHALATE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	DIMETHYLPHTHALATE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,4-DIMETHYLPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		69000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,4-DINITROPHENOL	ND		69000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,4-DINITROTOLUENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,6-DINITROTOLUENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	FLUORANTHENE	2100	J	6900	UG/KG	g
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	FLUORENE	9130		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	HEXACHLOROBENZENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	HEXACHLOROBUTADIENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		7200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	HEXACHLOROETHANE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	INDENO(1,2,3-CD)PYRENE	ND		6900	UG/KG	c,i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	ISOPHORONE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2-METHYLNAPHTHALENE	130000		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	3/4-METHYLPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2-METHYLPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	NAPHTHALENE	28000		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2-NITROANILINE	ND		69000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	3-NITROANILINE	ND		69000	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	4-NITROANILINE	ND		36000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	NITROBENZENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2-NITROPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	4-NITROPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	PENTACHLOROPHENOL	ND		36000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	PHENANTHRENE	23000		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	PHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	PYRENE	ND		6900	UG/KG	i
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	1,2,4-TRICHLOROBENZENE	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,4,5-TRICHLOROPHENOL	ND		36000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	SVOA	2,4,6-TRICHLOROPHENOL	ND		6900	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	TMICROB	HETEROTROPHIC PLATE COUNT	900		100	CFU/10G	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	TPHEXT	PHC AS DIESEL FUEL	15000		520	MG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	TPHEXT	MOTOR OIL	9800		520	MG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	TPHPRG	PHC AS GASOLINE	100	J-	100	MG/KG	e
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	ACETONE	ND		52000	UG/KG	b
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	ACRYLONITRILE	ND		16000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	BENZENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	BROMOCHLOROMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	BROMODICHLOROMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	BROMOFORM	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	BROMOMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	2-BUTANONE (MEK)	ND		100000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CARBON DISULFIDE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CARBON TETRACHLORIDE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CHLOROBENZENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CHLORODIBROMOMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CHLOROETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CHLOROFORM	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CHLOROMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	DIBROMOMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,2-DICHLOROBENZENE	2600	J	5200	UG/KG	g
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,3-DICHLOROBENZENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,4-DICHLOROBENZENE	1200	J	5200	UG/KG	g
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	DICHLORODIFLUOROMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,1-DICHLOROETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,2-DICHLOROETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,1-DICHLOROETHENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5200	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,2-DICHLOROPROPANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		16000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	ETHYLBENZENE	830	J	5200	UG/KG	g
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	2-HEXANONE	ND		16000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	IODOMETHANE	ND		16000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	METHYLENE CHLORIDE	ND		5200	UG/KG	b
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		52000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	STYRENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	TETRACHLOROETHENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	TOLUENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,1,1-TRICHLOROETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,1,2-TRICHLOROETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	TRICHLOROETHENE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	TRICHLOROFLUOROMETHANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	FREON 113	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	VINYL ACETATE	ND		16000	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	VINYL CHLORIDE	ND		5200	UG/KG	
094FTIR027-001	27-2003-B01-22.5-23.0	SOIL	22.5	23	VOA8260	XYLENES (TOTAL)	6000	J	16000	UG/KG	g
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	PCTMST	PERCENT MOISTURE	4.6		0.0	%MST	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	PH	PH	8.89		0.01		
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	ACENAPHTHENE	3900	J	6900	UG/KG	g
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	ACENAPHTHYLENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	ACETOPHENONE	780	J	6900	UG/KG	g
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	ANTHRACENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(A)ANTHRACENE	3200	J	6900	UG/KG	g,i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(A)PYRENE	ND		6900	UG/KG	i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(B)FLUORANTHENE	ND		6900	UG/KG	i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(G,H,I)PERYLENE	ND		6900	UG/KG	i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(K)FLUORANTHENE	ND		6900	UG/KG	i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BENZOIC ACID	ND		36000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		6900	UG/KG	i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	BUTYLBENZYLPHTHALATE	ND		6900	UG/KG	i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	CARBAZOLE	ND		6900	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	4-CHLORO-3-METHYLPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	4-CHLOROANILINE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2-CHLORONAPHTHALENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2-CHLOROPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	CHRYSENE	6200	J	6900	UG/KG	g,I
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	DI-N-BUTYLPHTHALATE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	DI-N-OCTYLPHTHALATE	ND		6900	UG/KG	I
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	DIBENZ(A,H)ANTHRACENE	ND		6900	UG/KG	c,I
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	DIBENZOFURAN	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	3,3'-DICHLOROBENZIDINE	ND		27000	UG/KG	I
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DICHLOROPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	DIETHYLPHTHALATE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	DIMETHYLPHTHALATE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DIMETHYLPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		69000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DINITROPHENOL	ND		69000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DINITROTOLUENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,6-DINITROTOLUENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	FLUORANTHENE	1700	J	6900	UG/KG	g
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	FLUORENE	7810		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROBENZENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROBUTADIENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		7200	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROETHANE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	INDENO(1,2,3-CD)PYRENE	ND		6900	UG/KG	c,I
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	ISOPHORONE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2-METHYLNAPHTHALENE	78000		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	3/4-METHYLPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2-METHYLPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	NAPHTHALENE	17000		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2-NITROANILINE	ND		69000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	3-NITROANILINE	ND		69000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	4-NITROANILINE	ND		36000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	NITROBENZENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2-NITROPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	4-NITROPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	PENTACHLOROPHENOL	ND		36000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	PHENANTHRENE	17000		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	PHENOL	ND		6900	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	PYRENE	ND		6900	UG/KG	i
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	1,2,4-TRICHLOROBENZENE	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,4,5-TRICHLOROPHENOL	ND		36000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	SVOA	2,4,6-TRICHLOROPHENOL	ND		6900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	TPHEXT	PHC AS DIESEL FUEL	14300		520	MG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	TPHEXT	MOTOR OIL	8600		520	MG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	TPHPRG	PHC AS GASOLINE	34		52	MG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	ACETONE	ND		26000	UG/KG	b
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	ACRYLONITRILE	ND		7900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	BENZENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	BROMOCHLOROMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	BROMODICHLOROMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	BROMOFORM	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	BROMOMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	2-BUTANONE (MEK)	ND		52000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CARBON DISULFIDE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CARBON TETRACHLORIDE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CHLOROBENZENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CHLORODIBROMOMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CHLOROETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CHLOROFORM	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CHLOROMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	DIBROMOMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,2-DICHLOROBENZENE	1100	J	2600	UG/KG	g
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,3-DICHLOROBENZENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,4-DICHLOROBENZENE	570	J	2600	UG/KG	g
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	DICHLORODIFLUOROMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,1-DICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,2-DICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,1-DICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CIS-1,2-DICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,2-DICHLOROPROPANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		7900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	ETHYLBENZENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	2-HEXANONE	ND		7900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	IODOMETHANE	ND		7900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	METHYLENE CHLORIDE	ND		2600	UG/KG	b
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		26000	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	STYRENE	ND		2600	UG/KG	

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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	TETRACHLOROETHENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	TOLUENE	690	J	2600	UG/KG	g
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,1,1-TRICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,1,2-TRICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	TRICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	TRICHLOROFLUOROMETHANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	1,2,3-TRICHLOROPROPANE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	FREON 113	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	VINYL ACETATE	ND		7900	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	VINYL CHLORIDE	ND		2600	UG/KG	
094FTIR027-030	27-2003-B01-25.5-26.0	SOIL	25.5	26	VOA8260	XYLENES (TOTAL)	1900	J	7900	UG/KG	g
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	PCTMST	PERCENT MOISTURE	8.2		0.0	%MST	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	PH	PH	8.43		0.01		
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	ACENAPHTHENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	ACENAPHTHYLENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	ACETOPHENONE	750	J	7200	UG/KG	g
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	ANTHRACENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BENZO(A)ANTHRACENE	2300	J	7200	UG/KG	g,i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BENZO(A)PYRENE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BENZO(B)FLUORANTHENE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BENZO(G,H,I)PERYLENE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BENZO(K)FLUORANTHENE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BENZOIC ACID	ND		37000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	BUTYLBENZYLPHTHALATE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	CARBAZOLE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	4-CHLORO-3-METHYLPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	4-CHLOROANILINE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2-CHLORONAPHTHALENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2-CHLOROPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	CHRYSENE	3800	J	7200	UG/KG	g,i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	DI-N-BUTYLPHTHALATE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	DI-N-OCTYLPHTHALATE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	DIBENZ(A,H)ANTHRACENE	ND		7200	UG/KG	c,i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	DIBENZOFURAN	ND		7200	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	3,3'-DICHLOROBENZIDINE	ND		28000	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,4-DICHLOROPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	DIETHYLPHTHALATE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	DIMETHYLPHTHALATE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,4-DIMETHYLPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		72000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,4-DINITROPHENOL	ND		72000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,4-DINITROTOLUENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,6-DINITROTOLUENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	FLUORANTHENE	1300	J	7200	UG/KG	g
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	FLUORENE	5800	J	7200	UG/KG	g
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	HEXACHLOROBENZENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	HEXACHLOROBUTADIENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		7400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	HEXACHLOROETHANE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	INDENO(1,2,3-CD)PYRENE	ND		7200	UG/KG	c,i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	ISOPHORONE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2-METHYLNAPHTHALENE	73000		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	3/4-METHYLPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2-METHYLPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	NAPHTHALENE	18000		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2-NITROANILINE	ND		72000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	3-NITROANILINE	ND		72000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	4-NITROANILINE	ND		37000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	NITROBENZENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2-NITROPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	4-NITROPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	PENTACHLOROPHENOL	ND		37000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	PHENANTHRENE	14100		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	PHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	PYRENE	ND		7200	UG/KG	i
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	1,2,4-TRICHLOROBENZENE	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,4,5-TRICHLOROPHENOL	ND		37000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	SVOA	2,4,6-TRICHLOROPHENOL	ND		7200	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	TPHEXT	PHC AS DIESEL FUEL	12700		540	MG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	TPHEXT	MOTOR OIL	8100		540	MG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	TPHPRG	PHC AS GASOLINE	100	J-	110	MG/KG	e
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	ACETONE	ND		54000	UG/KG	b
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	ACRYLONITRILE	ND		16000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	BENZENE	ND		5400	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	BROMOCHLOROMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	BROMODICHLOROMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	BROMOFORM	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	BROMOMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	2-BUTANONE (MEK)	ND		110000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CARBON DISULFIDE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CARBON TETRACHLORIDE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CHLOROBENZENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CHLORODIBROMOMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CHLOROETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CHLOROFORM	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CHLOROMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	DIBROMOMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,2-DICHLOROBENZENE	2400	J	5400	UG/KG	g
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,3-DICHLOROBENZENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,4-DICHLOROBENZENE	1100	J	5400	UG/KG	g
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	DICHLORODIFLUOROMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,1-DICHLOROETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,2-DICHLOROETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,1-DICHLOROETHENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,2-DICHLOROPROPANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		16000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	ETHYLBENZENE	1000	J	5400	UG/KG	g
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	2-HEXANONE	ND		16000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	IODOMETHANE	ND		16000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	METHYLENE CHLORIDE	ND		5400	UG/KG	b
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		54000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	STYRENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	TETRACHLOROETHENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	TOLUENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,1,1-TRICHLOROETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,1,2-TRICHLOROETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	TRICHLOROETHENE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	TRICHLOROFLUOROMETHANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	FREON 113	ND		5400	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	VINYL ACETATE	ND		16000	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	VINYL CHLORIDE	ND		5400	UG/KG	
094FTIR027-002	27-2003-B01-30.5-31.0	SOIL	30.5	31	VOA8260	XYLENES (TOTAL)	4900	J	16000	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	PCTMST	PERCENT MOISTURE	8.6		0.0	%MST	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	PH	PH	8.59		0.01		
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	ACENAPHTHENE	2100	J	14000	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	ACENAPHTHYLENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	ACETOPHENONE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	ANTHRACENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(A)ANTHRACENE	1800	J	14000	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(A)PYRENE	ND		14000	UG/KG	i
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(B)FLUORANTHENE	ND		14000	UG/KG	i
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(G,H,I)PERYLENE	ND		14000	UG/KG	c,i
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(K)FLUORANTHENE	ND		14000	UG/KG	i
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BENZOIC ACID	ND		74000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	BUTYLBENZYLPHTHALATE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	CARBAZOLE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	4-CHLOROANILINE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2-CHLORONAPHTHALENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2-CHLOROPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	CHRYSENE	3400	J	14000	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	DI-N-BUTYLPHTHALATE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	DI-N-OCTYLPHTHALATE	ND		14000	UG/KG	i
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		14000	UG/KG	i
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	DIBENZOFURAN	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		57000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DICHLOROPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	DIETHYLPHTHALATE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	DIMETHYLPHTHALATE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DIMETHYLPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		140000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DINITROPHENOL	ND		140000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DINITROTOLUENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,6-DINITROTOLUENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	FLUORANTHENE	1100	J	14000	UG/KG	g

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	FLUORENE	4700	J	14000	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROBENZENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROBUTADIENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		15000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROETHANE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		14000	UG/KG	i
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	ISOPHORONE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2-METHYLNAPHTHALENE	51000		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	3/4-METHYLPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2-METHYLPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	NAPHTHALENE	15500		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2-NITROANILINE	ND		140000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	3-NITROANILINE	ND		140000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	4-NITROANILINE	ND		74000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	NITROBENZENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2-NITROPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	4-NITROPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	PENTACHLOROPHENOL	ND		74000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	PHENANTHRENE	11000	J	14000	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	PHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	PYRENE	7100	J	14000	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		74000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		14000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	TPHEXT	PHC AS DIESEL FUEL	12200		550	MG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	TPHEXT	MOTOR OIL	7700		550	MG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	TPHPRG	PHC AS GASOLINE	100	J-	110	MG/KG	e
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	ACETONE	ND		55000	UG/KG	b
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	ACRYLONITRILE	ND		16000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	BENZENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	BROMOCHLOROMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	BROMODICHLOROMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	BROMOFORM	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	BROMOMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	2-BUTANONE (MEK)	ND		110000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CARBON DISULFIDE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CARBON TETRACHLORIDE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROBENZENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CHLORODIBROMOMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROETHANE	ND		5500	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROFORM	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	DIBROMOMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,2-DICHLOROBENZENE	3200	J	5500	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,3-DICHLOROBENZENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,4-DICHLOROBENZENE	1400	J	5500	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,1-DICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,2-DICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,1-DICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,2-DICHLOROPROPANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		16000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	ETHYLBENZENE	1100	J	5500	UG/KG	g
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	2-HEXANONE	ND		16000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	IODOMETHANE	ND		16000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	METHYLENE CHLORIDE	ND		5500	UG/KG	b
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		55000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	STYRENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	TETRACHLOROETHENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	TOLUENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	TRICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	FREON 113	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	VINYL ACETATE	ND		16000	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	VINYL CHLORIDE	ND		5500	UG/KG	
094FTIR027-004	27-2003-B01-31.0-31.5	SOIL	31	31.5	VOA8260	XYLENES (TOTAL)	5600	J	16000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	PCTMST	PERCENT MOISTURE	5.8		0.0	%MST	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	PH	PH	8.76		0.01		
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	ACENAPHTHENE	910	J	7000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	ACENAPHTHYLENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	ACETOPHENONE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	ANTHRACENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BENZO(A)ANTHRACENE	680	J	7000	UG/KG	g

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BENZO(A)PYRENE	ND		7000	UG/KG	i
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BENZO(B)FLUORANTHENE	ND		7000	UG/KG	i
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BENZO(G,H,I)PERYLENE	ND		7000	UG/KG	i
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BENZO(K)FLUORANTHENE	ND		7000	UG/KG	i
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BENZOIC ACID	ND		36000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	BUTYLBENZYLPHTHALATE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	CARBAZOLE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	4-CHLOROANILINE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2-CHLORONAPHTHALENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2-CHLOROPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	CHRYSENE	1000	J	7000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	DI-N-BUTYLPHTHALATE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	DI-N-OCTYLPHTHALATE	ND		7000	UG/KG	i
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		7000	UG/KG	c,i
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	DIBENZOFURAN	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		28000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,4-DICHLOROPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	DIETHYLPHTHALATE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	DIMETHYLPHTHALATE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,4-DIMETHYLPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		70000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,4-DINITROPHENOL	ND		70000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,4-DINITROTOLUENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,6-DINITROTOLUENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	FLUORANTHENE	400	J	7000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	FLUORENE	1500	J	7000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	HEXACHLOROBENZENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	HEXACHLOROBUTADIENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		7300	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	HEXACHLOROETHANE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		7000	UG/KG	c,i
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	ISOPHORONE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2-METHYLNAPHTHALENE	16000		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	3/4-METHYLPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2-METHYLPHENOL	ND		7000	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	NAPHTHALENE	4900	J	7000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2-NITROANILINE	ND		70000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	3-NITROANILINE	ND		70000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	4-NITROANILINE	ND		36000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	NITROBENZENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2-NITROPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	4-NITROPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	PENTACHLOROPHENOL	ND		36000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	PHENANTHRENE	3400	J	7000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	PHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	PYRENE	2500	J	7000	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		36000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		7000	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	TPHEXT	PHC AS DIESEL FUEL	8400		530	MG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	TPHEXT	MOTOR OIL	5700		530	MG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	TPHPRG	PHC AS GASOLINE	6		2.7	MG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	ACETONE	ND		110	UG/KG	b,c
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	ACRYLONITRILE	ND		34	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	BENZENE	1	J	11	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	BROMOCHLOROMETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	BROMODICHLOROMETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	BROMOFORM	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	BROMOMETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	2-BUTANONE (MEK)	ND		230	UG/KG	b
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CARBON DISULFIDE	2	J	11	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CARBON TETRACHLORIDE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CHLOROBENZENE	2	J	11	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CHLORODIBROMOMETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CHLOROETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CHLOROFORM	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CHLOROMETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	DIBROMOMETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,2-DICHLOROBENZENE	49		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,3-DICHLOROBENZENE	3	J	11	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,4-DICHLOROBENZENE	24		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		11	UG/KG	c
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,1-DICHLOROETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,2-DICHLOROETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,1-DICHLOROETHENE	ND		11	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,2-DICHLOROPROPANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		34	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	ETHYLBENZENE	40		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	2-HEXANONE	ND		34	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	IODOMETHANE	ND		34	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	METHYLENE CHLORIDE	ND		11	UG/KG	b
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	3	J	110	UG/KG	g
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	STYRENE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	TETRACHLOROETHENE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	TOLUENE	ND		11	UG/KG	f
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	TRICHLOROETHENE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	FREON 113	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	VINYL ACETATE	ND		34	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	VINYL CHLORIDE	ND		11	UG/KG	
094FTIR027-026	27-2003-B01-36.0-36.5	SOIL	36	36.5	VOA8260	XYLENES (TOTAL)	140		34	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	PCTMST	PERCENT MOISTURE	5.8		0.0	%MST	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	PH	PH	8.61		0.01		
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	c
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	b
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		360	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2-METHYLNAPHTHALENE	37	J	350	UG/KG	g
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	3/4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	

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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	TPHEXT	PHC AS DIESEL FUEL	10	J	11	MG/KG	g
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	TPHEXT	MOTOR OIL	11	J	11	MG/KG	g
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	TPHPRG	PHC AS GASOLINE	ND		2.4	MG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	ACETONE	ND		100	UG/KG	b,c
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	ACRYLONITRILE	ND		30	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	BENZENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	BROMOCHLOROMETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	BROMODICHLOROMETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	BROMOFORM	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	BROMOMETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	2-BUTANONE (MEK)	ND		200	UG/KG	b
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CARBON DISULFIDE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CARBON TETRACHLORIDE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CHLOROBENZENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CHLORODIBROMOMETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CHLOROETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CHLOROFORM	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CHLOROMETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	DIBROMOMETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,2-DICHLOROBENZENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,3-DICHLOROBENZENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,4-DICHLOROBENZENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	DICHLORODIFLUOROMETHANE	ND		10	UG/KG	c
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,1-DICHLOROETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,2-DICHLOROETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,1-DICHLOROETHENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CIS-1,2-DICHLOROETHENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,2-DICHLOROPROPANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		30	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	ETHYLBENZENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	2-HEXANONE	ND		30	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	IODOMETHANE	ND		30	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	METHYLENE CHLORIDE	ND		10	UG/KG	b

Table B-6

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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		100	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	STYRENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	TETRACHLOROETHENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	TOLUENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,1,1-TRICHLOROETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,1,2-TRICHLOROETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	TRICHLOROETHENE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	TRICHLOROFLUOROMETHANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	1,2,3-TRICHLOROPROPANE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	FREON 113	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	VINYL ACETATE	ND		30	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	VINYL CHLORIDE	ND		10	UG/KG	
094FTIR027-003	27-2003-B01-40.5-41.0	SOIL	40.5	41	VOA8260	XYLENES (TOTAL)	ND		30	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	PCTMST	PERCENT MOISTURE	6.7		0.0	%MST	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	PH	PH	8.79		0.01		
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	c
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	b
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		370	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2-METHYLNAPHTHALENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	3/4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	TPHEXT	PHC AS DIESEL FUEL	6	J	11	MG/KG	g
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	TPHEXT	MOTOR OIL	12		11	MG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	TPHPRG	PHC AS GASOLINE	ND		1.1	MG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	ACETONE	ND		61	UG/KG	b,c

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	ACRYLONITRILE	ND		18	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	BENZENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	BROMOCHLOROMETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	BROMODICHLOROMETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	BROMOFORM	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	BROMOMETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	2-BUTANONE (MEK)	ND		120	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CARBON DISULFIDE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CARBON TETRACHLORIDE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROBENZENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CHLORODIBROMOMETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROFORM	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROMETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	DIBROMOMETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,2-DICHLOROBENZENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,3-DICHLOROBENZENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,4-DICHLOROBENZENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		6.1	UG/KG	c
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,1-DICHLOROETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,2-DICHLOROETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,1-DICHLOROETHENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,2-DICHLOROPROPANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		18	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	ETHYLBENZENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	2-HEXANONE	ND		18	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	IODOMETHANE	ND		18	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	METHYLENE CHLORIDE	ND		6.1	UG/KG	b
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		61	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	STYRENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	TETRACHLOROETHENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	TOLUENE	ND		6.1	UG/KG	f
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	TRICHLOROETHENE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		6.1	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	FREON 113	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	VINYL ACETATE	ND		18	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	VINYL CHLORIDE	ND		6.1	UG/KG	
094FTIR027-005	27-2003-B01-46.0-46.5	SOIL	46	46.5	VOA8260	XYLENES (TOTAL)	ND		18	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	PCTMST	PERCENT MOISTURE	5.3		0.0	%MST	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	PH	PH	8.94		0.01		
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	c
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	b
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR- 27
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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		360	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2-METHYLNAPHTHALENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	3/4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	TPHEXT	PHC AS DIESEL FUEL	ND		11	MG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	TPHPRG	PHC AS GASOLINE	ND		1.1	MG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	ACETONE	ND		53	UG/KG	bc
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	ACRYLONITRILE	ND		16	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	BENZENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	BROMOCHLOROMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	BROMODICHLOROMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	BROMOFORM	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	BROMOMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	2-BUTANONE (MEK)	ND		110	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CARBON DISULFIDE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CARBON TETRACHLORIDE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROBENZENE	ND		5.3	UG/KG	

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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CHLORODIBROMOMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROFORM	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	DIBROMOMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,2-DICHLOROBENZENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,3-DICHLOROBENZENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,4-DICHLOROBENZENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,1-DICHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,2-DICHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,1-DICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,2-DICHLOROPROPANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		16	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	ETHYLBENZENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	2-HEXANONE	ND		16	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	IODOMETHANE	ND		16	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	METHYLENE CHLORIDE	ND		5.3	UG/KG	b
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		53	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	STYRENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	TETRACHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	TOLUENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	TRICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	FREON 113	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	VINYL ACETATE	ND		16	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	VINYL CHLORIDE	ND		5.3	UG/KG	
094FTIR027-027	27-2003-B01-51.0-51.5	SOIL	51	51.5	VOA8260	XYLENES (TOTAL)	ND		16	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	PCTMST	PERCENT MOISTURE	5.2		0.0	%MST	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	PH	PH	8.75		0.01		
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	ACETOPHENONE	ND		350	UG/KG	

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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(A)ANTHRACENE	54	J	350	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	i
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	i
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	c,i
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	i
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	b
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	CHRYSENE	120	J	350	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	i
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	i
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	FLUORANTHENE	84	J	350	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	FLUORENE	79	J	350	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		360	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	i
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2-METHYLNAPHTHALENE	740		350	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	3/4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	NAPHTHALENE	150	J	350	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	PHENANTHRENE	210	J	350	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	PYRENE	220	J	350	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	TPHEXT	PHC AS DIESEL FUEL	180		110	MG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	TPHEXT	MOTOR OIL	960		110	MG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	TPHPRG	PHC AS GASOLINE	ND		1.1	MG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	ACETONE	ND		73	UG/KG	b,c
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	ACRYLONITRILE	ND		22	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	BENZENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	BROMOCHLOROMETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	BROMODICHLOROMETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	BROMOFORM	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	BROMOMETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	2-BUTANONE (MEK)	ND		150	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CARBON DISULFIDE	5	J	7.3	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CARBON TETRACHLORIDE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROBENZENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CHLORODIBROMOMETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROFORM	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROMETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	DIBROMOMETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,2-DICHLOROBENZENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,3-DICHLOROBENZENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,4-DICHLOROBENZENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	DICHLORODIFLUOROMETHANE	ND		7.3	UG/KG	c
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,1-DICHLOROETHANE	ND		7.3	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,2-DICHLOROETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,1-DICHLOROETHENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CIS-1,2-DICHLOROETHENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,2-DICHLOROPROPANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		22	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	ETHYLBENZENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	2-HEXANONE	ND		22	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	IODOMETHANE	ND		22	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	METHYLENE CHLORIDE	ND		7.3	UG/KG	b
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	4-METHYL-2-PENTANONE (MIBK)	1	J	73	UG/KG	g
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	STYRENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	TETRACHLOROETHENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	TOLUENE	ND		7.3	UG/KG	f
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,1-TRICHLOROETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,2-TRICHLOROETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	TRICHLOROETHENE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	TRICHLOROFLUOROMETHANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	1,2,3-TRICHLOROPROPANE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	FREON 113	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	VINYL ACETATE	ND		22	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	VINYL CHLORIDE	ND		7.3	UG/KG	
094FTIR027-028	27-2003-B01-55.5-56.0	SOIL	55.5	56	VOA8260	XYLENES (TOTAL)	ND		22	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	PCTMST	PERCENT MOISTURE	6.9		0.0	%MST	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	PH	PH	8.92		0.01		
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	c
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		370	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2-METHYLNAPHTHALENE	25	J	350	UG/KG	g
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	3/4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	TPHEXT	PHC AS DIESEL FUEL	ND		11	MG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	TPHPRG	PHC AS GASOLINE	ND		3.9	MG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	ACETONE	ND		63	UG/KG	b,c
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	ACRYLONITRILE	ND		19	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	BENZENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	BROMOCHLOROMETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	BROMODICHLOROMETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	BROMOFORM	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	BROMOMETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	2-BUTANONE (MEK)	ND		130	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CARBON DISULFIDE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CARBON TETRACHLORIDE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CHLOROBENZENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CHLORODIBROMOMETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CHLOROETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CHLOROFORM	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CHLOROMETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	DIBROMOMETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,2-DICHLOROBENZENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,3-DICHLOROBENZENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,4-DICHLOROBENZENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	DICHLORODIFLUOROMETHANE	ND		6.3	UG/KG	c
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,1-DICHLOROETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,2-DICHLOROETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,1-DICHLOROETHENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CIS-1,2-DICHLOROETHENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,2-DICHLOROPROPANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		19	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	ETHYLBENZENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	2-HEXANONE	ND		19	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	IODOMETHANE	ND		19	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	METHYLENE CHLORIDE	ND		6.3	UG/KG	b
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		63	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	STYRENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	TETRACHLOROETHENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	TOLUENE	ND		6.3	UG/KG	f
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,1,1-TRICHLOROETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,1,2-TRICHLOROETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	TRICHLOROETHENE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	TRICHLOROFLUOROMETHANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	1,2,3-TRICHLOROPROPANE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	FREON 113	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	VINYL ACETATE	ND		19	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	VINYL CHLORIDE	ND		6.3	UG/KG	
094FTIR027-029	27-2003-B01-60.5-61.0	SOIL	60.5	61	VOA8260	XYLENES (TOTAL)	ND		19	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	PCTMST	PERCENT MOISTURE	9.1		0.0	%MST	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	PH	PH	8.83		0.01		
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	'HYS_PARAI	BULK DENSITY	1.53		0.0	G/CM^3	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	'HYS_PARAI	GRAIN DENSITY	2.63		0.0	G/CM^3	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	'HYS_PARAI	TOTAL POROSITY	41.7		0.0	IULK VOLUME	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	'HYS_PARAI	AIR FILLED POROSITY	28		0.0	IULK VOLUME	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	'HYS_PARAI	TOTAL PORE FLUID SATURATIONS	33		0.0	'ORE VOLUME	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	'HYS_PARAI	NATIVE STATE EFFECTIVE PERMEABILITY	1.53		0.0	MILLIDARCY	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	'HYS_PARAI	'E STATE EFFECTIVE HYDRAULIC CONDUC	7.93E-05		0.0	CM/S	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	ACENAPHTHENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	ACENAPHTHYLENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	ACETOPHENONE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	ANTHRACENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BENZO(A)ANTHRACENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BENZO(A)PYRENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BENZO(B)FLUORANTHENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BENZO(G,H,I)PERYLENE	ND		360	UG/KG	c
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BENZO(K)FLUORANTHENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		360	UG/KG	b
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	BUTYLBENZYLPHTHALATE	ND		360	UG/KG	

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NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	CARBAZOLE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	4-CHLORO-3-METHYLPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	4-CHLOROANILINE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2-CHLORONAPHTHALENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2-CHLOROPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	CHRYSENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	DI-N-BUTYLPHTHALATE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	DI-N-OCTYLPHTHALATE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	DIBENZ(A,H)ANTHRACENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	DIBENZOFURAN	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,4-DICHLOROPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	DIETHYLPHTHALATE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	DIMETHYLPHTHALATE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,4-DIMETHYLPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3600	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,4-DINITROPHENOL	ND		3600	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,4-DINITROTOLUENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,6-DINITROTOLUENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	FLUORANTHENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	FLUORENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	HEXACHLOROBENZENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	HEXACHLOROBUTADIENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		370	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	HEXACHLOROETHANE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	INDENO(1,2,3-CD)PYRENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	ISOPHORONE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2-METHYLNAPHTHALENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	3/4-METHYLPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2-METHYLPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	NAPHTHALENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2-NITROANILINE	ND		3600	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	3-NITROANILINE	ND		3600	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	NITROBENZENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2-NITROPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	4-NITROPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	PHENANTHRENE	ND		360	UG/KG	

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NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	PHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	PYRENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	1,2,4-TRICHLOROBENZENE	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	SVOA	2,4,6-TRICHLOROPHENOL	ND		360	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	TOC	TOTAL ORGANIC CARBON (MAX)	1560		110	MG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	TOC	TOTAL ORGANIC CARBON (MIN)	227		110	MG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	TOC	TOTAL ORGANIC CARBON (AVE)	681		110	MG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	TPHEXT	PHC AS DIESEL FUEL	14		11	MG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	TPHEXT	MOTOR OIL	20		11	MG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	TPHPRG	PHC AS GASOLINE	ND		1.7	MG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	ACETONE	ND		120	UG/KG	b,c
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	ACRYLONITRILE	ND		37	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	BENZENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	BROMOCHLOROMETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	BROMODICHLOROMETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	BROMOFORM	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	BROMOMETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	2-BUTANONE (MEK)	ND		250	UG/KG	b
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CARBON DISULFIDE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CARBON TETRACHLORIDE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CHLOROBENZENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CHLORODIBROMOMETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CHLOROETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CHLOROFORM	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CHLOROMETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	DIBROMOMETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,2-DICHLOROBENZENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,3-DICHLOROBENZENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,4-DICHLOROBENZENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	DICHLORODIFLUOROMETHANE	ND		12	UG/KG	c
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,1-DICHLOROETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,2-DICHLOROETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,1-DICHLOROETHENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CIS-1,2-DICHLOROETHENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,2-DICHLOROPROPANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		37	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	ETHYLBENZENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	2-HEXANONE	ND		37	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	IODOMETHANE	ND		37	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	METHYLENE CHLORIDE	ND		12	UG/KG	b
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		120	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	STYRENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	TETRACHLOROETHENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	TOLUENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,1,1-TRICHLOROETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,1,2-TRICHLOROETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	TRICHLOROETHENE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	TRICHLOROFLUOROMETHANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	1,2,3-TRICHLOROPROPANE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	FREON 113	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	VINYL ACETATE	ND		37	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	VINYL CHLORIDE	ND		12	UG/KG	
094FTIR027-006	27-2003-B01-65.5-66.0	SOIL	65.5	66	VOA8260	XYLENES (TOTAL)	ND		37	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	PCTMST	PERCENT MOISTURE	18.6		0.0	%MST	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	PH	PH	8.09		0.01		
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	ACENAPHTHENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	ACENAPHTHYLENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	ACETOPHENONE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	ANTHRACENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(A)ANTHRACENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(A)PYRENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(B)FLUORANTHENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(G,H,I)PERYLENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(K)FLUORANTHENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BENZOIC ACID	ND		2100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	BUTYLBENZYLPHTHALATE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	CARBAZOLE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLORO-3-METHYLPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLOROANILINE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2-CHLORONAPHTHALENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2-CHLOROPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	CHRYSENE	ND		410	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	DI-N-BUTYLPHTHALATE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	DI-N-OCTYLPHTHALATE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	DIBENZ(A,H)ANTHRACENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	DIBENZOFURAN	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	3,3'-DICHLOROBENZIDINE	ND		1600	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DICHLOROPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	DIETHYLPHTHALATE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	DIMETHYLPHTHALATE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DIMETHYLPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		4100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DINITROPHENOL	ND		4100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DINITROTOLUENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,6-DINITROTOLUENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	FLUORANTHENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	FLUORENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROBENZENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROBUTADIENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		420	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROETHANE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	INDENO(1,2,3-CD)PYRENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	ISOPHORONE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2-METHYLNAPHTHALENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4-METHYLPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2-METHYLPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	NAPHTHALENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2-NITROANILINE	ND		4100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	3-NITROANILINE	ND		4100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4-NITROANILINE	ND		2100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	NITROBENZENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2-NITROPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	4-NITROPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	PENTACHLOROPHENOL	ND		2100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	PHENANTHRENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	PHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	PYRENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	1,2,4-TRICHLOROBENZENE	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,4,5-TRICHLOROPHENOL	ND		2100	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	SVOA	2,4,6-TRICHLOROPHENOL	ND		410	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	TPHEXT	PHC AS DIESEL FUEL	ND		12	MG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	TPHEXT	MOTOR OIL	33		12	MG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	TPHPRG	PHC AS GASOLINE	ND		1.6	MG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,1-TRICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,1,2-TRICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,1-DICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,1-DICHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,2,3-TRICHLOROPROPANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,2-DICHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,2-DICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,2-DICHLOROPROPANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,3-DICHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	1,4-DICHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	2-BUTANONE (MEK)	ND		140	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	2-HEXANONE	ND		22	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		72	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	ACETONE	ND		72	UG/KG	b,c
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	ACRYLONITRILE	ND		22	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	BENZENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	BROMOCHLOROMETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	BROMODICHLOROMETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CARBON DISULFIDE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CARBON TETRACHLORIDE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	BROMOFORM	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	BROMOMETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CHLORODIBROMOMETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROFORM	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CIS-1,2-DICHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	VINYL CHLORIDE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	XYLENES (TOTAL)	ND		22	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	STYRENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	TETRACHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	TRICHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	DICHLORODIFLUOROMETHANE	ND		7.2	UG/KG	c
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	ETHYLBENZENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	VINYL ACETATE	ND		22	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	FREON 113	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	IODOMETHANE	ND		22	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	METHYLENE CHLORIDE	ND		7.2	UG/KG	b
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	TOLUENE	ND		7.2	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	TRICHLOROFLUOROMETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		22	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CHLOROMETHANE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		7.2	UG/KG	
094FTIR027-031	27-2003-B02-10.5-11.0	SOIL	10.5	11	VOA8260	DIBROMOMETHANE	ND		7.2	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	PCTMST	PERCENT MOISTURE	18.7		0.0	%MST	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	PH	PH	7.94		0.01		
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	ACENAPHTHENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	ACENAPHTHYLENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	ACETOPHENONE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	ANTHRACENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BENZO(A)ANTHRACENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BENZO(A)PYRENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BENZO(B)FLUORANTHENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BENZO(G,H,I)PERYLENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BENZO(K)FLUORANTHENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BENZOIC ACID	ND		2100	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	BUTYLBENZYLPHTHALATE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	CARBAZOLE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4-CHLORO-3-METHYLPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4-CHLOROANILINE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2-CHLORONAPHTHALENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2-CHLOROPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	CHRYSENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	DI-N-BUTYLPHTHALATE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	DI-N-OCTYLPHTHALATE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	DIBENZ(A,H)ANTHRACENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	DIBENZOFURAN	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	3,3'-DICHLOROBENZIDINE	ND		1600	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,4-DICHLOROPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	DIETHYLPHTHALATE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	DIMETHYLPHTHALATE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,4-DIMETHYLPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		4100	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,4-DINITROPHENOL	ND		4100	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,4-DINITROTOLUENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,6-DINITROTOLUENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	FLUORANTHENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	FLUORENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	HEXACHLOROBENZENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	HEXACHLOROBUTADIENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		420	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	HEXACHLOROETHANE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	INDENO(1,2,3-CD)PYRENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	ISOPHORONE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2-METHYLNAPHTHALENE	27	J	410	UG/KG	g
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4-METHYLPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2-METHYLPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	NAPHTHALENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2-NITROANILINE	ND		4100	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	3-NITROANILINE	ND		4100	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4-NITROANILINE	ND		2100	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	NITROBENZENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2-NITROPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	4-NITROPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	PENTACHLOROPHENOL	ND		2100	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	PHENANTHRENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	PHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	PYRENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	1,2,4-TRICHLOROBENZENE	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,4,5-TRICHLOROPHENOL	ND		2100	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	SVOA	2,4,6-TRICHLOROPHENOL	ND		410	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	TPHEXT	PHC AS DIESEL FUEL	ND		12	MG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	TPHEXT	MOTOR OIL	32		12	MG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	TPHPRG	PHC AS GASOLINE	ND		1.6	MG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,1-DICHLOROETHENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,2,3-TRICHLOROPROPANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,2-DICHLOROBENZENE	2	J	14	UG/KG	g
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,2-DICHLOROETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,2-DICHLOROPROPANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,3-DICHLOROBENZENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,4-DICHLOROBENZENE	1	J	14	UG/KG	g
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	2-BUTANONE (MEK)	ND		280	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	2-HEXANONE	ND		43	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		140	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	ACETONE	ND		140	UG/KG	b,c
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	ACRYLONITRILE	ND		43	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	BENZENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	BROMOCHLOROMETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	BROMODICHLOROMETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,1,1-TRICHLOROETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	BROMOFORM	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	BROMOMETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CARBON DISULFIDE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CARBON TETRACHLORIDE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CHLOROBENZENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CHLORODIBROMOMETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CHLOROETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CHLOROFORM	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CHLOROMETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CIS-1,2-DICHLOROETHENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	DIBROMOMETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	DICHLORODIFLUOROMETHANE	ND		14	UG/KG	c
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	ETHYLBENZENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	FREON 113	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	STYRENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,1,2-TRICHLOROETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	TETRACHLOROETHENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	1,1-DICHLOROETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	IODOMETHANE	ND		43	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	METHYLENE CHLORIDE	ND		14	UG/KG	b
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	TOLUENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		43	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	TRICHLOROFLUOROMETHANE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	XYLENES (TOTAL)	ND		43	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	TRICHLOROETHENE	ND		14	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	VINYL ACETATE	ND		43	UG/KG	
094FTIR027-032	27-2003-B02-15.5-16.0	SOIL	15.5	16	VOA8260	VINYL CHLORIDE	ND		14	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	PCTMST	PERCENT MOISTURE	7		0.0	%MST	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	PH	PH	8.71		0.01		
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	ACENAPHTHENE	280	J	3500	UG/KG	g

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	ACENAPHTHYLENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	ACETOPHENONE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	ANTHRACENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BENZO(A)ANTHRACENE	210	J	3500	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BENZO(A)PYRENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BENZO(B)FLUORANTHENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BENZO(G,H,I)PERYLENE	ND		3500	UG/KG	i
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BENZO(K)FLUORANTHENE	ND		3500	UG/KG	c
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BENZOIC ACID	ND		18000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	BUTYLBENZYLPHTHALATE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	CARBAZOLE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4-CHLOROANILINE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2-CHLORONAPHTHALENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2-CHLOROPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	CHRYSENE	360	J	3500	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	DI-N-BUTYLPHTHALATE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	DI-N-OCTYLPHTHALATE	ND		3500	UG/KG	c
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		3500	UG/KG	c
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	DIBENZOFURAN	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		14000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,4-DICHLOROPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	DIETHYLPHTHALATE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	DIMETHYLPHTHALATE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,4-DIMETHYLPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,4-DINITROPHENOL	ND		35000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,4-DINITROTOLUENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,6-DINITROTOLUENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	FLUORANTHENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	FLUORENE	680	J	3500	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	HEXACHLOROBENZENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	HEXACHLOROBUTADIENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		3700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	HEXACHLOROETHANE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		3500	UG/KG	c

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	ISOPHORONE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2-METHYLNAPHTHALENE	6040		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		35000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	NAPHTHALENE	1400	J	3500	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2-NITROANILINE	ND		35000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	3-NITROANILINE	ND		35000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4-NITROANILINE	ND		18000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	NITROBENZENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2-NITROPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	4-NITROPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	PENTACHLOROPHENOL	ND		18000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	PHENANTHRENE	1100	J	3500	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	PHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	PYRENE	680	J	3500	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		18000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		3500	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	TPHEXT	PHC AS DIESEL FUEL	13000		1100	MG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	TPHEXT	MOTOR OIL	7300		1100	MG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	TPHPRG	PHC AS GASOLINE	33	J	54	MG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,1-DICHLOROETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,1-DICHLOROETHENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,2-DICHLOROBENZENE	1600	J	2700	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,3-DICHLOROBENZENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,4-DICHLOROBENZENE	830	J	2700	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,2-DICHLOROETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	1,2-DICHLOROPROPANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	2-BUTANONE (MEK)	ND		54000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	2-HEXANONE	ND		8100	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		27000	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	ACETONE	ND		27000	UG/KG	b
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		8100	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	TRICHLOROETHENE	ND		2700	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	VINYL ACETATE	ND		8100	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	VINYL CHLORIDE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	XYLENES (TOTAL)	1300	J	8100	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	BENZENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	FREON 113	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	IODOMETHANE	ND		8100	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	METHYLENE CHLORIDE	ND		2700	UG/KG	b
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CHLORODIBROMOMETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CHLOROETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	STYRENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	DIBROMOMETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	BROMOFORM	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	BROMOMETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	ETHYLBENZENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CARBON DISULFIDE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CARBON TETRACHLORIDE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CHLOROBENZENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CHLOROFORM	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	TETRACHLOROETHENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CHLOROMETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	TOLUENE	320	J	2700	UG/KG	g
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	ACRYLONITRILE	ND		8100	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	BROMOCHLOROMETHANE	ND		2700	UG/KG	
094FTIR027-007	27-2003-B02-21.0-21.5	SOIL	21	21.5	VOA8260	BROMODICHLOROMETHANE	ND		2700	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	PCTMST	PERCENT MOISTURE	2.7		0.0	%MST	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	PH	PH	7.29		0.01		
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	ACENAPHTHENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	ACENAPHTHYLENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	ACETOPHENONE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	ANTHRACENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BENZO(A)ANTHRACENE	220	J	3400	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BENZO(A)PYRENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BENZO(B)FLUORANTHENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BENZO(G,H,I)PERYLENE	ND		3400	UG/KG	!
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BENZO(K)FLUORANTHENE	ND		3400	UG/KG	c
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BENZOIC ACID	ND		17000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		3400	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	BUTYLBENZYLPHTHALATE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	CARBAZOLE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4-CHLOROANILINE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2-CHLORONAPHTHALENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2-CHLOROPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4-METHYLPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	CHRYSENE	370	J	3400	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	DI-N-BUTYLPHTHALATE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	DI-N-OCTYLPHTHALATE	ND		3400	UG/KG	c
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		3400	UG/KG	c
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	DIBENZOFURAN	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		13000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,4-DICHLOROPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	DIETHYLPHTHALATE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	DIMETHYLPHTHALATE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,4-DIMETHYLPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,4-DINITROPHENOL	ND		34000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,4-DINITROTOLUENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,6-DINITROTOLUENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	FLUORANTHENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	FLUORENE	580	J	3400	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	HEXACHLOROBENZENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	HEXACHLOROBUTADIENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		3500	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	HEXACHLOROETHANE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		3400	UG/KG	c
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	ISOPHORONE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2-METHYLNAPHTHALENE	2800	J	3400	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		34000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2-METHYLPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	NAPHTHALENE	1300	J	3400	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2-NITROANILINE	ND		34000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	3-NITROANILINE	ND		34000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4-NITROANILINE	ND		17000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	NITROBENZENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2-NITROPHENOL	ND		3400	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	4-NITROPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	PENTACHLOROPHENOL	ND		17000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	PHENANTHRENE	1400	J	3400	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	PHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	PYRENE	670	J	3400	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		17000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		3400	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	TPHEXT	PHC AS DIESEL FUEL	6300		1000	MG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	TPHEXT	MOTOR OIL	5300		1000	MG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	TPHPRG	PHC AS GASOLINE	ND		51	MG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,1-DICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,1-DICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,2-DICHLOROBENZENE	970	J	2600	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,2-DICHLOROETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,2-DICHLOROPROPANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,3-DICHLOROBENZENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	1,4-DICHLOROBENZENE	500	J	2600	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	2-BUTANONE (MEK)	ND		51000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	2-HEXANONE	ND		7700	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		26000	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	ACETONE	ND		26000	UG/KG	b
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	ACRYLONITRILE	ND		7700	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	BENZENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	BROMOCHLOROMETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	BROMODICHLOROMETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	BROMOFORM	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	BROMOMETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CARBON DISULFIDE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CHLORODIBROMOMETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CHLOROETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CARBON TETRACHLORIDE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CHLOROBENZENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CHLOROFORM	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CHLOROMETHANE	ND		2600	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	VINYL CHLORIDE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	IODOMETHANE	ND		7700	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	METHYLENE CHLORIDE	ND		2600	UG/KG	b
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	STYRENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	TETRACHLOROETHENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	TOLUENE	300	J	2600	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		7700	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	TRICHLOROETHENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	XYLENES (TOTAL)	820	J	7700	UG/KG	g
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	VINYL ACETATE	ND		7700	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	DIBROMOMETHANE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	ETHYLBENZENE	ND		2600	UG/KG	
094FTIR027-008	27-2003-B02-26.0-26.5	SOIL	26	26.5	VOA8260	FREON 113	ND		2600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	PCTMST	PERCENT MOISTURE	9.4		0.0	%MST	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	PH	PH	8.59		0.01		
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	ACENAPHTHENE	290	J	3600	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	ACENAPHTHYLENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	ACETOPHENONE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	ANTHRACENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(A)ANTHRACENE	240	J	3600	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(A)PYRENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(B)FLUORANTHENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(G,H,I)PERYLENE	ND		3600	UG/KG	i
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BENZO(K)FLUORANTHENE	ND		3600	UG/KG	c
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BENZOIC ACID	ND		19000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	BUTYLBENZYLPHTHALATE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	CARBAZOLE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4-CHLOROANILINE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2-CHLORONAPHTHALENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2-CHLOROPHENOL	ND		3600	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4-METHYLPHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	CHRYSENE	600	J	3600	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	DI-N-BUTYLPHTHALATE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	DI-N-OCTYLPHTHALATE	ND		3600	UG/KG	c
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		3600	UG/KG	c
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	DIBENZOFURAN	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		14000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DICHLOROPHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	DIETHYLPHTHALATE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	DIMETHYLPHTHALATE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DIMETHYLPHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DINITROPHENOL	ND		36000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,4-DINITROTOLUENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,6-DINITROTOLUENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	FLUORANTHENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	FLUORENE	960	J	3600	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROBENZENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROBUTADIENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		3800	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	HEXACHLOROETHANE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		3600	UG/KG	c
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	ISOPHORONE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2-METHYLNAPHTHALENE	6820		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		36000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2-METHYLPHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	NAPHTHALENE	1900	J	3600	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2-NITROANILINE	ND		36000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	3-NITROANILINE	ND		36000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4-NITROANILINE	ND		19000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	NITROBENZENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2-NITROPHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	4-NITROPHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	PENTACHLOROPHENOL	ND		19000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	PHENANTHRENE	1500	J	3600	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	PHENOL	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	PYRENE	750	J	3600	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		3600	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		19000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		3600	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	TMICROB	HETEROTROPHIC PLATE COUNT	200		100	CFU/10G	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	TPHEXT	PHC AS DIESEL FUEL	12000		1100	MG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	TPHEXT	MOTOR OIL	7800		1100	MG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	TPHPRG	PHC AS GASOLINE	80	J+	55	MG/KG	a
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,2-DICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,2-DICHLOROPROPANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,3-DICHLOROBENZENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,4-DICHLOROBENZENE	1100	J	5500	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	2-BUTANONE (MEK)	ND		110000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	2-HEXANONE	ND		17000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		55000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	ACETONE	ND		55000	UG/KG	b
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	ACRYLONITRILE	ND		17000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	BENZENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	BROMOCHLOROMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	BROMODICHLOROMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	BROMOFORM	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	BROMOMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CARBON DISULFIDE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,1-DICHLOROETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CARBON TETRACHLORIDE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROBENZENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CHLORODIBROMOMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROFORM	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CHLOROMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	DIBROMOMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	ETHYLBENZENE	1400	J	5500	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	FREON 113	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	IODOMETHANE	ND		17000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	METHYLENE CHLORIDE	ND		5500	UG/KG	b
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	STYRENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,1-DICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5500	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	1,2-DICHLOROBENZENE	2500	J	5500	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	TETRACHLOROETHENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	TOLUENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		17000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	TRICHLOROETHENE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		5500	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	VINYL ACETATE	ND		17000	UG/KG	
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	XYLENES (TOTAL)	7100	J	17000	UG/KG	g
094FTIR027-010	27-2003-B02-31.0-31.5	SOIL	31	31.5	VOA8260	VINYL CHLORIDE	ND		5500	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	PCTMST	PERCENT MOISTURE	4.3		0.0	%MST	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	PH	PH	8.46		0.01		
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	ACENAPHTHENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	ACENAPHTHYLENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	ACETOPHENONE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	ANTHRACENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BENZO(A)ANTHRACENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BENZO(A)PYRENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BENZO(B)FLUORANTHENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BENZO(G,H,I)PERYLENE	ND		3400	UG/KG	I
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BENZO(K)FLUORANTHENE	ND		3400	UG/KG	c
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BENZOIC ACID	ND		18000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4-CHLORO-3-METHYLPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	BUTYLBENZYLPHTHALATE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	CARBAZOLE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4-CHLOROANILINE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2-CHLORONAPHTHALENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2-CHLOROPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4-METHYLPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	CHRYSENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	DI-N-BUTYLPHTHALATE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	DI-N-OCTYLPHTHALATE	ND		3400	UG/KG	c
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	DIBENZ(A,H)ANTHRACENE	ND		3400	UG/KG	c
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	DIBENZOFURAN	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	3,3'-DICHLOROBENZIDINE	ND		14000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,4-DICHLOROPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	DIETHYLPHTHALATE	ND		3400	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	DIMETHYLPHTHALATE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,4-DIMETHYLPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,4-DINITROPHENOL	ND		34000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,4-DINITROTOLUENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,6-DINITROTOLUENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	FLUORANTHENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	FLUORENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	HEXACHLOROBENZENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	HEXACHLOROBUTADIENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		3600	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	HEXACHLOROETHANE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	INDENO(1,2,3-CD)PYRENE	ND		3400	UG/KG	c
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	ISOPHORONE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2-METHYLNAPHTHALENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		34000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2-METHYLPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	NAPHTHALENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2-NITROANILINE	ND		34000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	3-NITROANILINE	ND		34000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4-NITROANILINE	ND		18000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	NITROBENZENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2-NITROPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	4-NITROPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	PENTACHLOROPHENOL	ND		18000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	PHENANTHRENE	240	J	3400	UG/KG	g
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	PHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	PYRENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	1,2,4-TRICHLOROBENZENE	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,4,5-TRICHLOROPHENOL	ND		18000	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	SVOA	2,4,6-TRICHLOROPHENOL	ND		3400	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	TPHEXT	PHC AS DIESEL FUEL	69		10	MG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	TPHEXT	MOTOR OIL	56		10	MG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	TPHPRG	PHC AS GASOLINE	ND		1.0	MG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CARBON TETRACHLORIDE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CHLORODIBROMOMETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CHLOROFORM	0.6	J	5.2	UG/KG	g
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CHLOROMETHANE	ND		5.2	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	DIBROMOMETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	DICHLORODIFLUOROMETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	ETHYLBENZENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	FREON 113	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	IODOMETHANE	ND		16	UG/KG	c
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	ACRYLONITRILE	ND		16	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	METHYLENE CHLORIDE	ND		5.2	UG/KG	b
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	STYRENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	BENZENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	BROMOCHLOROMETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,2-DICHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,2-DICHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	BROMODICHLOROMETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	TETRACHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	TOLUENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		16	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	2-HEXANONE	ND		16	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	TRICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	TRICHLOROFLUOROMETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,1,2-TRICHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	ACETONE	ND		52	UG/KG	b
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,1-DICHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,1-DICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	VINYL ACETATE	ND		16	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	VINYL CHLORIDE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	XYLENES (TOTAL)	ND		16	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,2-DICHLOROPROPANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	BROMOFORM	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,3-DICHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,4-DICHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		52	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	BROMOMETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	2-BUTANONE (MEK)	ND		100	UG/KG	b
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	CARBON DISULFIDE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-011	27-2003-B02-37.5-38.0	SOIL	37.5	38	VOA8260	1,1,1-TRICHLOROETHANE	ND		5.2	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	PCTMST	PERCENT MOISTURE	8.1		0.0	%MST	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	PH	PH	8.83		0.01		
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	ACENAPHTHENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	ACENAPHTHYLENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	ACETOPHENONE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	ANTHRACENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BENZO(A)ANTHRACENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BENZO(A)PYRENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BENZO(B)FLUORANTHENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BENZO(G,H,I)PERYLENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BENZO(K)FLUORANTHENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BENZOIC ACID	ND		1900	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		360	UG/KG	b
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4-CHLORO-3-METHYLPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	BUTYLBENZYLPHTHALATE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	CARBAZOLE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4-CHLOROANILINE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2-CHLORONAPHTHALENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2-CHLOROPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4-METHYLPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	CHRYSENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	DI-N-BUTYLPHTHALATE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	DI-N-OCTYLPHTHALATE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	DIBENZ(A,H)ANTHRACENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	DIBENZOFURAN	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,4-DICHLOROPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	DIETHYLPHTHALATE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	DIMETHYLPHTHALATE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,4-DIMETHYLPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,4-DINITROPHENOL	ND		3600	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,4-DINITROTOLUENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,6-DINITROTOLUENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	FLUORANTHENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	FLUORENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	HEXACHLOROBENZENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	HEXACHLOROBUTADIENE	ND		360	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		370	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	HEXACHLOROETHANE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	INDENO(1,2,3-CD)PYRENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	ISOPHORONE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2-METHYLNAPHTHALENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3600	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2-METHYLPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	NAPHTHALENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2-NITROANILINE	ND		3600	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	3-NITROANILINE	ND		3600	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4-NITROANILINE	ND		1900	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	NITROBENZENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2-NITROPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	4-NITROPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	PENTACHLOROPHENOL	ND		1900	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	PHENANTHRENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	PHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	PYRENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	1,2,4-TRICHLOROBENZENE	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,4,5-TRICHLOROPHENOL	ND		1900	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	SVOA	2,4,6-TRICHLOROPHENOL	ND		360	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	TPHEXT	PHC AS DIESEL FUEL	7	J	11	MG/KG	g
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	TPHPRG	PHC AS GASOLINE	ND		1.9	MG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	BROMOFORM	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	BROMOMETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CARBON DISULFIDE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CARBON TETRACHLORIDE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CHLOROBENZENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CHLORODIBROMOMETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CHLOROETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CHLOROFORM	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CHLOROMETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CIS-1,2-DICHLOROETHENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	DIBROMOMETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	DICHLORODIFLUOROMETHANE	ND		11	UG/KG	c
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	2-HEXANONE	ND		33	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	ETHYLBENZENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	FREON 113	ND		11	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		110	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	ACETONE	ND		110	UG/KG	b,c
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,1-DICHLOROETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,1-DICHLOROETHENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	ACRYLONITRILE	ND		33	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	IODOMETHANE	ND		33	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	METHYLENE CHLORIDE	ND		11	UG/KG	b
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	STYRENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	TETRACHLOROETHENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	TOLUENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,3-DICHLOROBENZENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	2-BUTANONE (MEK)	ND		220	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,1,1-TRICHLOROETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,1,2-TRICHLOROETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		33	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	TRICHLOROETHENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	TRICHLOROFLUOROMETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	VINYL ACETATE	ND		33	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	VINYL CHLORIDE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	XYLENES (TOTAL)	ND		33	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,2,3-TRICHLOROPROPANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	BENZENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,2-DICHLOROBENZENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,2-DICHLOROETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,4-DICHLOROBENZENE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	BROMOCHLOROMETHANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	1,2-DICHLOROPROPANE	ND		11	UG/KG	
094FTIR027-033	27-2003-B02-42.5-43.0	SOIL	42.5	43	VOA8260	BROMODICHLOROMETHANE	ND		11	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	PCTMST	PERCENT MOISTURE	6.8		0.0	%MST	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	PH	PH	8.81		0.01		
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		370	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2-METHYLNAPHTHALENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	3-NITROANILINE	ND		3500	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	TPHEXT	PHC AS DIESEL FUEL	ND		11	MG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	TPHPRG	PHC AS GASOLINE	ND		1.8	MG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,1-DICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,1-DICHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,2-DICHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,2-DICHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,2-DICHLOROPROPANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	IODOMETHANE	ND		22	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	METHYLENE CHLORIDE	ND		7.2	UG/KG	b
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	STYRENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	TETRACHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	TOLUENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		22	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	TRICHLOROETHENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	VINYL ACETATE	ND		22	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	VINYL CHLORIDE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,4-DICHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	XYLENES (TOTAL)	ND		22	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROMETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		7.2	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	BROMODICHLOROMETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	BROMOFORM	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	DIBROMOMETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CHLORODIBROMOMETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		72	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	ACETONE	ND		72	UG/KG	b,c
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROFORM	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	ACRYLONITRILE	ND		22	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	BENZENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	BROMOCHLOROMETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	BROMOMETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		7.2	UG/KG	c
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CARBON DISULFIDE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CARBON TETRACHLORIDE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROETHANE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	ETHYLBENZENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	CHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	FREON 113	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	1,3-DICHLOROBENZENE	ND		7.2	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	2-BUTANONE (MEK)	ND		140	UG/KG	
094FTIR027-034	27-2003-B02-46.0-46.5	SOIL	46	46.5	VOA8260	2-HEXANONE	ND		22	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	PCTMST	PERCENT MOISTURE	5.4		0.0	%MST	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	PH	PH	8.8		0.01		
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		360	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2-METHYLNAPHTHALENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	PYRENE	ND		350	UG/KG	

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NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	TPHEXT	PHC AS DIESEL FUEL	ND		11	MG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	TPHPRG	PHC AS GASOLINE	ND		1.2	MG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		16	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	TRICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	VINYL ACETATE	ND		16	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	VINYL CHLORIDE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	STYRENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	XYLENES (TOTAL)	ND		16	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		5.2	UG/KG	c
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	IODOMETHANE	ND		16	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	METHYLENE CHLORIDE	ND		5.2	UG/KG	b
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	ETHYLBENZENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	FREON 113	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	TETRACHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	TOLUENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CHLORODIBROMOMETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROFORM	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROMETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	DIBROMOMETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,1-DICHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,1-DICHLOROETHENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,2-DICHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,2-DICHLOROETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,2-DICHLOROPROPANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,3-DICHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	1,4-DICHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	2-BUTANONE (MEK)	ND		100	UG/KG	

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NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	2-HEXANONE	ND		16	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		52	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	ACETONE	ND		52	UG/KG	b,c
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	ACRYLONITRILE	ND		16	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	BROMODICHLOROMETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	BROMOFORM	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	BENZENE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	BROMOCHLOROMETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	BROMOMETHANE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CARBON DISULFIDE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CARBON TETRACHLORIDE	ND		5.2	UG/KG	
094FTIR027-035	27-2003-B02-51.0-51.5	SOIL	51	51.5	VOA8260	CHLOROBENZENE	ND		5.2	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	PCTMST	PERCENT MOISTURE	11.4		0.0	%MST	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	PH	PH	9.24		0.01		
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	ACENAPHTHENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	ACENAPHTHYLENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	ACETOPHENONE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	ANTHRACENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(A)ANTHRACENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(A)PYRENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(B)FLUORANTHENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(G,H,I)PERYLENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BENZO(K)FLUORANTHENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BENZOIC ACID	ND		1900	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	BUTYLBENZYLPHTHALATE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	CARBAZOLE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4-CHLORO-3-METHYLPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4-CHLOROANILINE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2-CHLORONAPHTHALENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2-CHLOROPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	CHRYSENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	DI-N-BUTYLPHTHALATE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	DI-N-OCTYLPHTHALATE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	DIBENZ(A,H)ANTHRACENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	DIBENZOFURAN	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	3,3'-DICHLOROBENZIDINE	ND		1500	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DICHLOROPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	DIETHYLPHTHALATE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	DIMETHYLPHTHALATE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DIMETHYLPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3700	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DINITROPHENOL	ND		3700	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,4-DINITROTOLUENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,6-DINITROTOLUENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	FLUORANTHENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	FLUORENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROBENZENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROBUTADIENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		390	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	HEXACHLOROETHANE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	INDENO(1,2,3-CD)PYRENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	ISOPHORONE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2-METHYLNAPHTHALENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4-METHYLPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2-METHYLPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	NAPHTHALENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2-NITROANILINE	ND		3700	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	3-NITROANILINE	ND		3700	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4-NITROANILINE	ND		1900	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	NITROBENZENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2-NITROPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	4-NITROPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	PENTACHLOROPHENOL	ND		1900	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	PHENANTHRENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	PHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	PYRENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	1,2,4-TRICHLOROBENZENE	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,4,5-TRICHLOROPHENOL	ND		1900	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	SVOA	2,4,6-TRICHLOROPHENOL	ND		370	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	TPHEXT	PHC AS DIESEL FUEL	ND		11	MG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	TPHPRG	PHC AS GASOLINE	ND		1.3	MG/KG	a
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,1-TRICHLOROETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,1,2-TRICHLOROETHANE	ND		6.8	UG/KG	

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Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,1-DICHLOROETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,1-DICHLOROETHENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,2-DICHLOROETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,2-DICHLOROPROPANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,2,3-TRICHLOROPROPANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	BENZENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,2-DICHLOROBENZENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	BROMOCHLOROMETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	BROMODICHLOROMETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,3-DICHLOROBENZENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	2-BUTANONE (MEK)	ND		140	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	2-HEXANONE	ND		20	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		68	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	ACETONE	ND		68	UG/KG	b,c
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	ACRYLONITRILE	ND		20	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	BROMOFORM	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	BROMOMETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	1,4-DICHLOROBENZENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CARBON DISULFIDE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CARBON TETRACHLORIDE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROBENZENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		20	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	TRICHLOROETHENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	TRICHLOROFLUOROMETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	VINYL ACETATE	ND		20	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	VINYL CHLORIDE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	STYRENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	XYLENES (TOTAL)	ND		20	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	DICHLORODIFLUOROMETHANE	ND		6.8	UG/KG	c
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	IODOMETHANE	ND		20	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	METHYLENE CHLORIDE	ND		6.8	UG/KG	b
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CIS-1,2-DICHLOROETHENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	ETHYLBENZENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	FREON 113	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	TETRACHLOROETHENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	TOLUENE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CHLORODIBROMOMETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROFORM	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROETHANE	ND		6.8	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	CHLOROMETHANE	ND		6.8	UG/KG	
094FTIR027-036	27-2003-B02-55.5-56.0	SOIL	55.5	56	VOA8260	DIBROMOMETHANE	ND		6.8	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	PCTMST	PERCENT MOISTURE	12.7		0.0	%MST	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	PH	PH	8.9		0.01		
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	'HYS_PARAI	BULK DENSITY	1.81		0.0	G/CM^3	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	'HYS_PARAI	GRAIN DENSITY	2.62		0.0	G/CM^3	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	'HYS_PARAI	TOTAL POROSITY	31		0.0	'ULK VOLUME	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	'HYS_PARAI	AIR FILLED POROSITY	8		0.0	'ULK VOLUME	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	'HYS_PARAI	TOTAL PORE FLUID SATURATIONS	74.1		0.0	'ORE VOLUME	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	'HYS_PARAI	NATIVE STATE EFFECTIVE PERMEABILITY	17.8		0.0	'ILLIDARCY	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	'HYS_PARAI	'E STATE EFFECTIVE HYDRAULIC CONDUC	1.69E-05		0.0	CM/S	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		360	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2-METHYLNAPHTHALENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	TOC	TOTAL ORGANIC CARBON (MAX)	464		110	MG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	TOC	TOTAL ORGANIC CARBON (MIN)	ND		110	MG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	TOC	TOTAL ORGANIC CARBON (AVE)	190		110	MG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	TPHEXT	PHC AS DIESEL FUEL	ND		11	MG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	TPHPRG	PHC AS GASOLINE	ND		1.1	MG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,1,1-TRICHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,1,2-TRICHLOROETHANE	ND		5.3	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,1-DICHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,2-DICHLOROBENZENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,2-DICHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,1-DICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,2,3-TRICHLOROPROPANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,2-DICHLOROPROPANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,3-DICHLOROBENZENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	1,4-DICHLOROBENZENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	2-BUTANONE (MEK)	ND		110	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	TETRACHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	TOLUENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		16	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	TRICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	TRICHLOROFLUOROMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	VINYL ACETATE	ND		16	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	VINYL CHLORIDE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	XYLENES (TOTAL)	ND		16	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		53	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	DIBROMOMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	DICHLORODIFLUOROMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	ETHYLBENZENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CARBON DISULFIDE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CARBON TETRACHLORIDE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	FREON 113	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CHLOROMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	BENZENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	BROMOCHLOROMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	BROMODICHLOROMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	BROMOFORM	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	BROMOMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CHLOROBENZENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	IODOMETHANE	ND		16	UG/KG	c
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CHLORODIBROMOMETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CHLOROETHANE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CIS-1,2-DICHLOROETHENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	METHYLENE CHLORIDE	ND		5.3	UG/KG	b
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	CHLOROFORM	0.6	J	5.3	UG/KG	g
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	STYRENE	ND		5.3	UG/KG	
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	2-HEXANONE	ND		16	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	ACETONE	ND		53	UG/KG	b
094FTIR027-012	27-2003-B02-61.0-61.5	SOIL	61	61.5	VOA8260	ACRYLONITRILE	ND		16	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	PCTMST	PERCENT MOISTURE	5.9/5.5		0.0	%MST	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	PH	PH	9.65/9.42		0.01		
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	b
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	FLUORENE	ND		350	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		360	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2-METHYLNAPHTHALENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	TPHEXT	PHC AS DIESEL FUEL	10	J	11	MG/KG	g
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	TPHEXT	MOTOR OIL	14/18		11	MG/KG	
094FTIR027-037	27-2003-B03-10.5-11.0	SOIL	10.5	11	TPHPRG	PHC AS GASOLINE	ND		1.5	MG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	PCTMST	PERCENT MOISTURE	2.2		0.0	%MST	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	PH	PH	9.04		0.01		
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	1,2,4-TRICHLOROBENZENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	ACENAPHTHYLENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	ACETOPHENONE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	ANTHRACENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(A)ANTHRACENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(A)PYRENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(B)FLUORANTHENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(G,H,I)PERYLENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BENZO(K)FLUORANTHENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BENZOIC ACID	ND		1700	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		340	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		340	UG/KG	b
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,4,5-TRICHLOROPHENOL	ND		1700	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	BUTYLBENZYLPHTHALATE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4-CHLORO-3-METHYLPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	CARBAZOLE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	CHRYSENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4-CHLOROANILINE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2-CHLOROPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2-METHYLNAPHTHALENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4-METHYLPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	DI-N-BUTYLPHTHALATE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	DI-N-OCTYLPHTHALATE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	DIBENZ(A,H)ANTHRACENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	DIBENZOFURAN	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	DIETHYLPHTHALATE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	3-NITROANILINE	ND		3400	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DIMETHYLPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	DIMETHYLPHTHALATE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	FLUORANTHENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DINITROPHENOL	ND		3400	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DINITROTOLUENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,6-DINITROTOLUENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2-CHLORONAPHTHALENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	FLUORENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROBENZENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROBUTADIENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		350	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	HEXACHLOROETHANE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	INDENO(1,2,3-CD)PYRENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	ISOPHORONE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2-METHYLPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4-NITROANILINE	ND		1700	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2-NITROANILINE	ND		3400	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	NITROBENZENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2-NITROPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3400	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	4-NITROPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	PENTACHLOROPHENOL	ND		1700	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	3,3'-DICHLOROBENZIDINE	ND		1300	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	ACENAPHTHENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	NAPHTHALENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	PHENANTHRENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	PHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	PYRENE	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,4,6-TRICHLOROPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	SVOA	2,4-DICHLOROPHENOL	ND		340	UG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	TPHEXT	PHC AS DIESEL FUEL	ND		10	MG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	TPHEXT	MOTOR OIL	ND		10	MG/KG	
094FTIR027-039	27-2003-B03-25.5-26.0	SOIL	25.5	26	TPHPRG	PHC AS GASOLINE	ND		1.5	MG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	PCTMST	PERCENT MOISTURE	5.6		0.0	%MST	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	PH	PH	8.84		0.01		
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	1,2,4-TRICHLOROBENZENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	ACETOPHENONE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	ANTHRACENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BENZO(A)ANTHRACENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BENZO(A)PYRENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BENZO(B)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BENZO(G,H,I)PERYLENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BENZO(K)FLUORANTHENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BENZOIC ACID	ND		1800	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		350	UG/KG	b
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	BUTYLBENZYLPHTHALATE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,4,6-TRICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	CARBAZOLE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4-CHLOROANILINE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	CHRYSENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	DI-N-BUTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2-METHYLNAPHTHALENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4-NITROANILINE	ND		1800	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	DI-N-OCTYLPHTHALATE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	DIBENZ(A,H)ANTHRACENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	DIBENZOFURAN	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	DIETHYLPHTHALATE	ND		350	UG/KG	

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REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	DIMETHYLPHTHALATE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		3500	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,4-DINITROPHENOL	ND		3500	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	FLUORANTHENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	FLUORENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,4-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4-CHLORO-3-METHYLPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,6-DINITROTOLUENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2-CHLORONAPHTHALENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2-CHLOROPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	HEXACHLOROBENZENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	HEXACHLOROBUTADIENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		360	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	HEXACHLOROETHANE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	INDENO(1,2,3-CD)PYRENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	ISOPHORONE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2-NITROANILINE	ND		3500	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4-NITROPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2-NITROPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	PENTACHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	3,3'-DICHLOROBENZIDINE	ND		1400	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	ACENAPHTHENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	PHENANTHRENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	3-NITROANILINE	ND		3500	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	ACENAPHTHYLENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	NAPHTHALENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	NITROBENZENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	PHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	PYRENE	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,4,5-TRICHLOROPHENOL	ND		1800	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,4-DICHLOROPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	SVOA	2,4-DIMETHYLPHENOL	ND		350	UG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	TPHEXT	PHC AS DIESEL FUEL	ND		11	MG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	TPHEXT	MOTOR OIL	ND		11	MG/KG	
094FTIR027-040	27-2003-B03-35.0-35.5	SOIL	35	35.5	TPHPRG	PHC AS GASOLINE	ND		1.1	MG/KG	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	ACENAPHTHENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	ACENAPHTHYLENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	ACETOPHENONE	4	J	9.6	UG/L	g
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	ANTHRACENE	ND		9.6	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BENZO(A)ANTHRACENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BENZO(A)PYRENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BENZO(B)FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BENZO(G,H,I)PERYLENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BENZO(K)FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BENZOIC ACID	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		9.6	UG/L	b
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	BUTYLBENZYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	CARBAZOLE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	4-CHLORO-3-METHYLPHENOL	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	4-CHLOROANILINE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2-CHLORONAPHTHALENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2-CHLOROPHENOL	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	CHRYSENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	DI-N-BUTYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	DI-N-OCTYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	DIBENZ(A,H)ANTHRACENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	DIBENZOFURAN	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	3,3'-DICHLOROBENZIDINE	ND		19	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,4-DICHLOROPHENOL	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	DIETHYLPHTHALATE	ND		9.6	UG/L	b
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	DIMETHYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,4-DIMETHYLPHENOL	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,4-DINITROPHENOL	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,4-DINITROTOLUENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,6-DINITROTOLUENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	FLUORENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	HEXACHLOROBENZENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	HEXACHLOROBUTADIENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	HEXACHLOROETHANE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	INDENO(1,2,3-CD)PYRENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	ISOPHORONE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2-METHYLNAPHTHALENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	3/4-METHYLPHENOL	ND		9.6	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2-METHYLPHENOL	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	NAPHTHALENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2-NITROANILINE	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	3-NITROANILINE	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	4-NITROANILINE	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	NITROBENZENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2-NITROPHENOL	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	4-NITROPHENOL	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	PENTACHLOROPHENOL	ND		29	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	PHENANTHRENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	PHENOL	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	PYRENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	1,2,4-TRICHLOROBENZENE	ND		9.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,4,5-TRICHLOROPHENOL	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	SVOA	2,4,6-TRICHLOROPHENOL	ND		48	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	TOC	TOTAL ORGANIC CARBON (MAX)	ND		1	MG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	TOC	TOTAL ORGANIC CARBON (MIN)	ND		1	MG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	TOC	TOTAL ORGANIC CARBON (AVE)	ND		1	MG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	TPHEXT	PHC AS DIESEL FUEL	ND		0.48	MG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	TPHEXT	MOTOR OIL	ND		0.48	MG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	TPHPRG	PHC AS GASOLINE	ND		0.05	MG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	ACETONE	ND		100	UG/L	b,c
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	ACRYLONITRILE	200	R	200	UG/L	c
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	BENZENE	ND		0.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	BROMOCHLOROMETHANE	ND		0.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	BROMODICHLOROMETHANE	ND		0.8	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	BROMOFORM	ND		1.2	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	BROMOMETHANE	ND		1	UG/L	c
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	2-BUTANONE (MEK)	100	R	100	UG/L	c
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CARBON DISULFIDE	ND		10	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CARBON TETRACHLORIDE	ND		0.5	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CHLOROBENZENE	ND		0.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CHLORODIBROMOMETHANE	ND		0.5	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CHLOROETHANE	ND		1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CHLOROFORM	ND		0.3	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CHLOROMETHANE	ND		1.3	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	DIBROMOMETHANE	ND		2.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,2-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,3-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,4-DICHLOROBENZENE	ND		0.3	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	DICHLORODIFLUOROMETHANE	ND		1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,1-DICHLOROETHANE	ND		0.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,2-DICHLOROETHANE	ND		0.5	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,1-DICHLOROETHENE	ND		0.5	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CIS-1,2-DICHLOROETHENE	ND		1.2	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		0.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,2-DICHLOROPROPANE	ND		0.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		10	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	ETHYLBENZENE	ND		0.6	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	2-HEXANONE	ND		50	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	IODOMETHANE	ND		10	UG/L	c
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	METHYLENE CHLORIDE	ND		1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		100	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	STYRENE	ND		0.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		0.5	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		0.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	TETRACHLOROETHENE	ND		1.4	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	TOLUENE	2		1.1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,1,1-TRICHLOROETHANE	ND		0.8	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,1,2-TRICHLOROETHANE	ND		1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	TRICHLOROETHENE	ND		1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	TRICHLOROFLUOROMETHANE	ND		0.8	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	1,2,3-TRICHLOROPROPANE	ND		3.2	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	FREON 113	ND		1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	VINYL ACETATE	ND		50	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	VINYL CHLORIDE	ND		1.1	UG/L	
094FTIR027-023	EQUIPMENT RINSATE 1	WATER	0	0	VOA8260	XYLENES (TOTAL)	ND		2.9	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	1,2,4-TRICHLOROBENZENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,4,5-TRICHLOROPHENOL	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,4,6-TRICHLOROPHENOL	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,4-DICHLOROPHENOL	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,4-DIMETHYLPHENOL	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,6-DINITROTOLUENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2-CHLORONAPHTHALENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,4-DINITROPHENOL	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2,4-DINITROTOLUENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4-CHLORO-3-METHYLPHENOL	ND		9.6	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2-CHLOROPHENOL	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2-METHYLPHENOL	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2-NITROANILINE	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2-NITROPHENOL	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	3,3'-DICHLOROBENZIDINE	ND		19	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	3-NITROANILINE	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4-CHLOROANILINE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	2-METHYLNAPHTHALENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4-METHYLPHENOL	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4-NITROANILINE	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	4-NITROPHENOL	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	CHRYSENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	DI-N-BUTYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	DI-N-OCTYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	DIBENZ(A,H)ANTHRACENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	DIBENZOFURAN	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	DIETHYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	DIMETHYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		9.6	UG/L	b
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	FLUORENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	HEXACHLOROBENZENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	HEXACHLOROBUTADIENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	HEXACHLOROETHANE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	INDENO(1,2,3-CD)PYRENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BENZO(G,H,I)PERYLENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	NAPHTHALENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BENZO(A)ANTHRACENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BENZO(K)FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BENZO(A)PYRENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	ISOPHORONE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BENZOIC ACID	ND		48	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	NITROBENZENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BUTYLBENZYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	PHENANTHRENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	PHENOL	ND		9.6	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	CARBAZOLE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	PYRENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	ACENAPHTHENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	ACETOPHENONE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	ACENAPHTHYLENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	ANTHRACENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	BENZO(B)FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	SVOA	PENTACHLOROPHENOL	ND		29	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	TOC	TOTAL ORGANIC CARBON (MAX)	8.1		1	MG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	TOC	TOTAL ORGANIC CARBON (MIN)	ND		1	MG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	TOC	TOTAL ORGANIC CARBON (AVE)	3.6		1	MG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	TPHEXT	PHC AS DIESEL FUEL	0.3	J	0.48	MG/L	g
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	TPHEXT	MOTOR OIL	ND		0.48	MG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	TPHPRG	PHC AS GASOLINE	ND		0.05	MG/L	b,z
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	ACETONE	100	R	100	UG/L	c
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	ACRYLONITRILE	200	R	200	UG/L	c
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	BENZENE	ND		0.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	BROMOCHLOROMETHANE	ND		0.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	BROMODICHLOROMETHANE	ND		0.8	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	BROMOFORM	ND		1.2	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	BROMOMETHANE	ND		1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	2-BUTANONE (MEK)	100	R	100	UG/L	c
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CARBON DISULFIDE	ND		10	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CARBON TETRACHLORIDE	ND		0.5	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CHLOROBENZENE	ND		0.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CHLORODIBROMOMETHANE	ND		0.5	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CHLOROETHANE	ND		1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CHLOROFORM	ND		0.3	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CHLOROMETHANE	ND		1.3	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	DIBROMOMETHANE	ND		2.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,2-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,3-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,4-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	DICHLORODIFLUOROMETHANE	ND		1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,1-DICHLOROETHANE	ND		0.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,2-DICHLOROETHANE	ND		0.5	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,1-DICHLOROETHENE	ND		0.5	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CIS-1,2-DICHLOROETHENE	ND		1.2	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		0.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,2-DICHLOROPROPANE	ND		0.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		10	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	ETHYLBENZENE	ND		0.6	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	2-HEXANONE	ND		50	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	IODOMETHANE	ND		10	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	METHYLENE CHLORIDE	ND		1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		100	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	STYRENE	ND		0.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		0.5	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		0.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	TETRACHLOROETHENE	ND		1.4	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	TOLUENE	0.5	J	1.1	UG/L	g
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,1,1-TRICHLOROETHANE	ND		0.8	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,1,2-TRICHLOROETHANE	ND		1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	TRICHLOROETHENE	ND		1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	TRICHLOROFLUOROMETHANE	ND		0.8	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	1,2,3-TRICHLOROPROPANE	ND		3.2	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	FREON 113	ND		1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	VINYL ACETATE	ND		50	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	VINYL CHLORIDE	ND		1.1	UG/L	
094FTIR027-024	EQUIPMENT RINSATE 2	WATER	0	0	VOA8260	XYLENES (TOTAL)	ND		2.9	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	ACENAPHTHENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	ACENAPHTHYLENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	ACETOPHENONE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	ANTHRACENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BENZO(A)ANTHRACENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BENZO(A)PYRENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BENZO(B)FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BENZO(G,H,I)PERYLENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BENZO(K)FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BENZOIC ACID	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	BUTYLBENZYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	CARBAZOLE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4-CHLORO-3-METHYLPHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4-CHLOROANILINE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2-CHLORONAPHTHALENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2-CHLOROPHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		9.6	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	CHRYSENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	DI-N-BUTYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	DI-N-OCTYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	DIBENZ(A,H)ANTHRACENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	DIBENZOFURAN	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	3,3'-DICHLOROBENZIDINE	ND		19	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,4-DICHLOROPHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	DIETHYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	DIMETHYLPHTHALATE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,4-DIMETHYLPHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,4-DINITROPHENOL	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,4-DINITROTOLUENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,6-DINITROTOLUENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	FLUORANTHENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	FLUORENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	HEXACHLOROBENZENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	HEXACHLOROBUTADIENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	HEXACHLOROETHANE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	INDENO(1,2,3-CD)PYRENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	ISOPHORONE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2-METHYLNAPHTHALENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4-METHYLPHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2-METHYLPHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	NAPHTHALENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2-NITROANILINE	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	3-NITROANILINE	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4-NITROANILINE	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	NITROBENZENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2-NITROPHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	4-NITROPHENOL	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	PENTACHLOROPHENOL	ND		29	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	PHENANTHRENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	PHENOL	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	PYRENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	1,2,4-TRICHLOROBENZENE	ND		9.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,4,5-TRICHLOROPHENOL	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	SVOA	2,4,6-TRICHLOROPHENOL	ND		48	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	TOC	TOTAL ORGANIC CARBON (MAX)	3.6		1	MG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-022	FIELD BLANK 1	WATER	0	0	TOC	TOTAL ORGANIC CARBON (MIN)	ND		1	MG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	TOC	TOTAL ORGANIC CARBON (AVE)	2.1		1	MG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	TPHEXT	PHC AS DIESEL FUEL	ND		0.48	MG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	TPHEXT	MOTOR OIL	ND		0.48	MG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	TPHPRG	PHC AS GASOLINE	ND		0.05	MG/L	b,z
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	ACETONE	100	R	100	UG/L	c
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	ACRYLONITRILE	200	R	200	UG/L	c
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	BENZENE	ND		0.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	BROMOCHLOROMETHANE	ND		0.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	BROMODICHLOROMETHANE	ND		0.8	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	BROMOFORM	ND		1.2	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	BROMOMETHANE	ND		1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	2-BUTANONE (MEK)	100	R	100	UG/L	c
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CARBON DISULFIDE	ND		10	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CARBON TETRACHLORIDE	ND		0.5	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CHLOROBENZENE	ND		0.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CHLORODIBROMOMETHANE	ND		0.5	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CHLOROETHANE	ND		1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CHLOROFORM	ND		0.3	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CHLOROMETHANE	ND		1.3	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	DIBROMOMETHANE	ND		2.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,2-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,3-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,4-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	DICHLORODIFLUOROMETHANE	ND		1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,1-DICHLOROETHANE	ND		0.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,2-DICHLOROETHANE	ND		0.5	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,1-DICHLOROETHENE	ND		0.5	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CIS-1,2-DICHLOROETHENE	ND		1.2	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		0.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,2-DICHLOROPROPANE	ND		0.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		10	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	ETHYLBENZENE	ND		0.6	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	2-HEXANONE	ND		50	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	IODOMETHANE	ND		10	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	METHYLENE CHLORIDE	ND		1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		100	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	STYRENE	ND		0.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		0.5	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		0.4	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	TETRACHLOROETHENE	ND		1.4	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	TOLUENE	0.4	J	1.1	UG/L	g
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,1,1-TRICHLOROETHANE	ND		0.8	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,1,2-TRICHLOROETHANE	ND		1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	TRICHLOROETHENE	ND		1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	TRICHLOROFLUOROMETHANE	ND		0.8	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	1,2,3-TRICHLOROPROPANE	ND		3.2	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	FREON 113	ND		1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	VINYL ACETATE	ND		50	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	VINYL CHLORIDE	ND		1.1	UG/L	
094FTIR027-022	FIELD BLANK 1	WATER	0	0	VOA8260	XYLENES (TOTAL)	ND		2.9	UG/L	
094-FTIR027-018	IDW	SOIL	0	0	FLSHPT	IGNITABILITY (FLASHPOINT)	100		0.5	C	
094-FTIR027-001	IDW	SOIL	0	0	MISC	% DRY WEIGHT	95			%	
094-FTIR027-010	IDW	SOIL	0	0	MISC	% DRY WEIGHT	91.7			%	
094-FTIR027-001	IDW	SOIL	0	0	PAH8021B	NAPHTHALENE	12.5		0.250	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8021B	NAPHTHALENE	7.9		0.250	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	NAPHTHALENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	ACENAPHTHENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	ANTHRACENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	FLUORANTHENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	FLUORENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	PYRENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	BENZO(A)ANTHRACENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	BENZO(A)PYRENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	BENZO(B)FLUORANTHENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	BENZO(K)FLUORANTHENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	CHRYSENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	DIBENZ(A,H)ANTHRACENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	INDENO(1,2,3-CD)PYRENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	ACENAPHTHYLENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	BENZO(G,H,I)PERYLENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	PHENANTHRENE	ND		9.71	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	PAH8100	2-METHYLNAPHTHALENE	ND		9.71	MG/KG	
094-FTIR027-018	IDW	SOIL	0	0	PCTMST	PERCENT MOISTURE	7.7		0.0	%MST	
094-FTIR027-018	IDW	SOIL	0	0	PH	CORROSIVITY (PH)	9.45		0.0		
094-FTIR027-018	IDW	SOIL	0	0	REACT	REACTIVITY: CYANIDE	ND		250	MG/KG	
094-FTIR027-018	IDW	SOIL	0	0	REACT	REACTIVITY: SULFIDE	ND		500	MG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	ACENAPHTHENE	290	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	ACENAPHTHYLENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	ACETOPHENONE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	ANTHRACENE	280	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BENZO(A)ANTHRACENE	ND		1400	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BENZO(A)PYRENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BENZO(B)FLUORANTHENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BENZO(G,H,I)PERYLENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BENZO(K)FLUORANTHENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BENZOIC ACID	ND		7400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	89	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	BUTYLBENZYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	CARBAZOLE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4-CHLORO-3-METHYLPHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4-CHLOROANILINE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2-CHLORONAPHTHALENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2-CHLOROPHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	CHRYSENE	500	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	DI-N-BUTYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	DI-N-OCTYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	DIBENZ(A,H)ANTHRACENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	DIBENZOFURAN	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	3,3'-DICHLOROBENZIDINE	ND		5600	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,4-DICHLOROPHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	DIETHYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	DIMETHYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,4-DIMETHYLPHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		14000	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,4-DINITROPHENOL	ND		14000	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,4-DINITROTOLUENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,6-DINITROTOLUENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	FLUORANTHENE	100	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	FLUORENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	HEXACHLOROBENZENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	HEXACHLOROBUTADIENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		1500	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	HEXACHLOROETHANE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	INDENO(1,2,3-CD)PYRENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	ISOPHORONE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2-METHYLNAPHTHALENE	1000	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4-METHYLPHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2-METHYLPHENOL	ND		1400	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-018	IDW	SOIL	0	0	SVOA	NAPHTHALENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2-NITROANILINE	ND		14000	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	3-NITROANILINE	ND		14000	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4-NITROANILINE	ND		7400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	NITROBENZENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2-NITROPHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	4-NITROPHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	PENTACHLOROPHENOL	ND		7400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	PHENANTHRENE	1300	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	PHENOL	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	PYRENE	850	J	1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	1,2,4-TRICHLOROBENZENE	ND		1400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,4,5-TRICHLOROPHENOL	ND		7400	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	SVOA	2,4,6-TRICHLOROPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	ACENAPHTHENE	290	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	ACENAPHTHYLENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	ACETOPHENONE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	ANTHRACENE	280	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BENZO(A)ANTHRACENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BENZO(A)PYRENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BENZO(B)FLUORANTHENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BENZO(G,H,I)PERYLENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BENZO(K)FLUORANTHENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BENZOIC ACID	ND		7400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	84	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	BUTYLBENZYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	CARBAZOLE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4-CHLORO-3-METHYLPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4-CHLOROANILINE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2-CHLORONAPHTHALENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2-CHLOROPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	CHRYSENE	510	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	DI-N-BUTYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	DI-N-OCTYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	DIBENZ(A,H)ANTHRACENE	ND		1400	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	DIBENZOFURAN	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	3,3'-DICHLOROBENZIDINE	ND		5600	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,4-DICHLOROPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	DIETHYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	DIMETHYLPHTHALATE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,4-DIMETHYLPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		14000	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,4-DINITROPHENOL	ND		14000	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,4-DINITROTOLUENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,6-DINITROTOLUENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	FLUORANTHENE	200	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	FLUORENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	HEXACHLOROBENZENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	HEXACHLOROBUTADIENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		1500	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	HEXACHLOROETHANE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	INDENO(1,2,3-CD)PYRENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	ISOPHORONE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2-METHYLNAPHTHALENE	1000	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4-METHYLPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2-METHYLPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	NAPHTHALENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2-NITROANILINE	ND		14000	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	3-NITROANILINE	ND		14000	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4-NITROANILINE	ND		7400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	NITROBENZENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2-NITROPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	4-NITROPHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	PENTACHLOROPHENOL	ND		7400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	PHENANTHRENE	1300	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	PHENOL	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	PYRENE	860	J	1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	1,2,4-TRICHLOROBENZENE	ND		1400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,4,5-TRICHLOROPHENOL	ND		7400	UG/KG	
094-FTIR027-018RE	IDW	SOIL	0	0	SVOA	2,4,6-TRICHLOROPHENOL	ND		1400	UG/KG	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	ACENAPHTHENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	ACENAPHTHYLENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	ACETOPHENONE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	ANTHRACENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BENZO(A)ANTHRACENE	ND		9.6	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BENZO(A)PYRENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BENZO(B)FLUORANTHENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BENZO(G,H,I)PERYLENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BENZO(K)FLUORANTHENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BENZOIC ACID	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BIS(2-CHLOROETHOXY)METHANE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BIS(2-CHLOROETHYL)ETHER	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,2'-OXYBIS(1-CHLOROPROPANE)	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BIS(2-ETHYLHEXYL)PHTHALATE	1	J	9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4-BROMOPHENYL-PHENYLETHER	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	BUTYLBENZYLPHTHALATE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	CARBAZOLE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4-CHLORO-3-METHYLPHENOL	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4-CHLOROANILINE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2-CHLORONAPHTHALENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2-CHLOROPHENOL	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4-CHLOROPHENYL-PHENYLETHER	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	CHRYSENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	DI-N-BUTYLPHTHALATE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	DI-N-OCTYLPHTHALATE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	DIBENZ(A,H)ANTHRACENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	DIBENZOFURAN	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	3,3'-DICHLOROBENZIDINE	ND		19	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,4-DICHLOROPHENOL	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	DIETHYLPHTHALATE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	DIMETHYLPHTHALATE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,4-DIMETHYLPHENOL	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4,6-DINITRO-2-METHYLPHENOL	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,4-DINITROPHENOL	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,4-DINITROTOLUENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,6-DINITROTOLUENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	FLUORANTHENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	FLUORENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	HEXACHLOROBENZENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	HEXACHLOROBUTADIENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	HEXACHLOROCYCLOPENTADIENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	HEXACHLOROETHANE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	INDENO(1,2,3-CD)PYRENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	ISOPHORONE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2-METHYLNAPHTHALENE	9	J	9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4-METHYLPHENOL	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2-METHYLPHENOL	2	J	9.6	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-019	IDW	SOIL	0	0	SVOA	NAPHTHALENE	8	J	9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2-NITROANILINE	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	3-NITROANILINE	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4-NITROANILINE	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	NITROBENZENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2-NITROPHENOL	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	4-NITROPHENOL	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	N-NITROSO-DI-N-PROPYLAMINE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	N-NITROSODIPHENYLAMINE (1)	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	PENTACHLOROPHENOL	ND		29	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	PHENANTHRENE	1	J	9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	PHENOL	7	J	9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	PYRENE	1	J	9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	1,2,4-TRICHLOROBENZENE	ND		9.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,4,5-TRICHLOROPHENOL	ND		48	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	SVOA	2,4,6-TRICHLOROPHENOL	ND		48	UG/L	
094-FTIR027-001	IDW	SOIL	0	0	TPHEXT	EPH C9-C18 ALIPHATICS	2570		495.	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHEXT	EPH C19-C36 ALIPHATICS	1080		198.	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHEXT	EPH C11-C22 AROMATICS	1670		198.	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHEXT	UNADJ C11-C22 AROM HYD	1760		198.	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHEXT	EPH C9-C18 ALIPHATICS	364		97.1	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHEXT	EPH C19-C36 ALIPHATICS	216		97.1	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHEXT	EPH C11-C22 AROMATICS	159		97.1	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHEXT	UNADJ C11-C22 AROM HYD	289		97.1	MG/KG	
094-FTIR027-018	IDW	SOIL	0	0	TPHEXT	PHC AS DIESEL FUEL	1800	D	110	MG/KG	
094-FTIR027-018	IDW	SOIL	0	0	TPHEXT	MOTOR OIL	890	M	110	MG/KG	
094-FTIR027-019	IDW	SOIL	0	0	TPHEXT	PHC AS DIESEL FUEL	4.4	D	0.48	MG/L	
094-FTIR027-019	IDW	SOIL	0	0	TPHEXT	MOTOR OIL	ND		0.48	MG/L	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	BENZENE	ND		0.0500	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	TOLUENE	ND		0.150	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	ETHYLBENZENE	1.25		0.0500	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	MP-XYLENE	3.35		0.200	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	O-XYLENE	1.35		0.100	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	MTBE	ND		0.150	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	VPH C5-C8 ALIPHATICS	40.3		5.00	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	VPH C9-C12 ALIPHATICS	1050		100.	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	VPH C9-C10 AROMATICS	552		100.	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	UNADJ VPH C5-C8 ALIPH	40.3		5.00	MG/KG	
094-FTIR027-001	IDW	SOIL	0	0	TPHPRG	UNADJ VPH C9-C12 ALIPH	1610		100.	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	BENZENE	ND		0.0500	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	TOLUENE	ND		0.150	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	ETHYLBENZENE	2.25		0.0500	MG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	MP-XYLENE	1.45		0.200	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	O-XYLENE	0.802		0.100	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	MTBE	ND		0.150	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	VPH C5-C8 ALIPHATICS	21.2		5.00	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	VPH C9-C12 ALIPHATICS	446		50.0	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	VPH C9-C10 AROMATICS	188		50.0	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	UNADJ VPH C5-C8 ALIPH	21.2		5.00	MG/KG	
094-FTIR027-010	IDW	SOIL	0	0	TPHPRG	UNADJ VPH C9-C12 ALIPH	635		50.0	MG/KG	
094-FTIR027-018	IDW	SOIL	0	0	TPHPRG	PHC AS GASOLINE	ND		1.1	MG/KG	
094-FTIR027-019	IDW	SOIL	0	0	TPHPRG	PHC AS GASOLINE	0.51	H	0.05	MG/L	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	ACETONE	ND		270	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	ACRYLONITRILE	ND		81	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	BENZENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	BROMOCHLOROMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	BROMODICHLOROMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	BROMOFORM	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	BROMOMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	2-BUTANONE (MEK)	ND		540	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CARBON DISULFIDE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CARBON TETRACHLORIDE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CHLOROBENZENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CHLORODIBROMOMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CHLOROETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CHLOROFORM	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CHLOROMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	DIBROMOMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,2-DICHLOROBENZENE	50		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,3-DICHLOROBENZENE	3	J	27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,4-DICHLOROBENZENE	26	J	27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	DICHLORODIFLUOROMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,1-DICHLOROETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,2-DICHLOROETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,1-DICHLOROETHENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CIS-1,2-DICHLOROETHENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,2-DICHLOROPROPANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	ETHYLBENZENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	2-HEXANONE	ND		81	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	IODOMETHANE	ND		81	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		81	UG/KG	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	FREON 113	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	METHYLENE CHLORIDE	21	J	27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		270	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	STYRENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	TETRACHLOROETHENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	TOLUENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,1,1-TRICHLOROETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,1,2-TRICHLOROETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	TRICHLOROETHENE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	TRICHLOROFLUOROMETHANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	1,2,3-TRICHLOROPROPANE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	VINYL ACETATE	ND		81	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	VINYL CHLORIDE	ND		27	UG/KG	
094-FTIR027-018	IDW	SOIL	0	0	VOA8260	XYLENES (TOTAL)	26	J	81	UG/KG	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	ACETONE	ND		100	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	ACRYLONITRILE	ND		200	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	BENZENE	ND		0.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	BROMOCHLOROMETHANE	ND		0.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	BROMODICHLOROMETHANE	ND		0.8	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	BROMOFORM	0.7	J	1.2	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	BROMOMETHANE	ND		1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	2-BUTANONE (MEK)	5	J	100	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CARBON DISULFIDE	ND		10	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CARBON TETRACHLORIDE	ND		0.5	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CHLOROBENZENE	ND		0.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CHLORODIBROMOMETHANE	ND		0.5	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CHLOROETHANE	ND		1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CHLOROFORM	ND		0.3	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CHLOROMETHANE	ND		1.3	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	DIBROMOMETHANE	ND		2.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,2-DICHLOROBENZENE	ND		0.3	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,3-DICHLOROBENZENE	ND		0.3	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,4-DICHLOROBENZENE	ND		0.3	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	DICHLORODIFLUOROMETHANE	ND		1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,1-DICHLOROETHANE	ND		0.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,2-DICHLOROETHANE	ND		0.5	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,1-DICHLOROETHENE	ND		0.5	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CIS-1,2-DICHLOROETHENE	ND		1.2	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		0.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,2-DICHLOROPROPANE	ND		0.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	ETHYLBENZENE	0.7		0.6	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	2-HEXANONE	4	J	50	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	IODOMETHANE	ND		10	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		10	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	FREON 113	ND		1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	METHYLENE CHLORIDE	ND		1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	4-METHYL-2-PENTANONE (MIBK)	4	J	100	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	STYRENE	ND		0.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		0.5	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		0.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	TETRACHLOROETHENE	ND		1.4	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	TOLUENE	0.4	J	1.1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,1,1-TRICHLOROETHANE	ND		0.8	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,1,2-TRICHLOROETHANE	ND		1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	TRICHLOROETHENE	ND		1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	TRICHLOROFLUOROMETHANE	ND		0.8	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	1,2,3-TRICHLOROPROPANE	ND		3.2	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	VINYL ACETATE	ND		50	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	VINYL CHLORIDE	ND		1.1	UG/L	
094-FTIR027-019	IDW	SOIL	0	0	VOA8260	XYLENES (TOTAL)	6.9		2.9	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	TPHPRG	PHC AS GASOLINE	ND		0.05	MG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	ACETONE	ND		100	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	ACRYLONITRILE	200	R	200	UG/L	c
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	BENZENE	ND		0.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	BROMOCHLOROMETHANE	ND		0.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	BROMODICHLOROMETHANE	ND		0.8	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	BROMOFORM	ND		1.2	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	BROMOMETHANE	ND		1	UG/L	c
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	2-BUTANONE (MEK)	100	R	100	UG/L	c
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CARBON DISULFIDE	ND		10	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CARBON TETRACHLORIDE	ND		0.5	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CHLOROBENZENE	ND		0.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CHLORODIBROMOMETHANE	ND		0.5	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CHLOROETHANE	ND		1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CHLOROFORM	ND		0.3	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CHLOROMETHANE	ND		1.3	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	DIBROMOMETHANE	ND		2.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,2-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,3-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,4-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	DICHLORODIFLUOROMETHANE	ND		1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,1-DICHLOROETHANE	ND		0.4	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,2-DICHLOROETHANE	ND		0.5	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,1-DICHLOROETHENE	ND		0.5	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CIS-1,2-DICHLOROETHENE	ND		1.2	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		0.6	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,2-DICHLOROPROPANE	ND		0.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		10	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	ETHYLBENZENE	ND		0.6	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	2-HEXANONE	ND		50	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	IODOMETHANE	ND		10	UG/L	c
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	METHYLENE CHLORIDE	ND		1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		100	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	STYRENE	ND		0.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		0.5	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		0.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	TETRACHLOROETHENE	ND		1.4	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	TOLUENE	ND		1.1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,1,1-TRICHLOROETHANE	ND		0.8	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,1,2-TRICHLOROETHANE	ND		1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	TRICHLOROETHENE	ND		1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	TRICHLOROFLUOROMETHANE	ND		0.8	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	1,2,3-TRICHLOROPROPANE	ND		3.2	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	FREON 113	ND		1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	VINYL ACETATE	ND		50	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	VINYL CHLORIDE	ND		1.1	UG/L	
094FTIR027-020	TRIP BLANK 1	WATER	0	0	VOA8260	XYLENES (TOTAL)	ND		2.9	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	TPHPRG	PHC AS GASOLINE	ND		0.05	MG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	ACETONE	100	R	100	UG/L	c
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	ACRYLONITRILE	200	R	200	UG/L	c
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	BENZENE	ND		0.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	BROMOCHLOROMETHANE	ND		0.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	BROMODICHLOROMETHANE	ND		0.8	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	BROMOFORM	ND		1.2	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	BROMOMETHANE	ND		1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	2-BUTANONE (MEK)	100	R	100	UG/L	c
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CARBON DISULFIDE	ND		10	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CARBON TETRACHLORIDE	ND		0.5	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CHLOROBENZENE	ND		0.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CHLORODIBROMOMETHANE	ND		0.5	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CHLOROETHANE	ND		1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CHLOROFORM	ND		0.3	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CHLOROMETHANE	ND		1.3	UG/L	

Table B-6

REMEDIAL INVESTIGATION DATA, NOVEMBER 2003, FTIR-27
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Sample ID	Point Name	Matrix	Top Depth	Bottom Depth	Method	Analyte	Result	Qualifier	Reporting Limit	Units	Comments
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	DIBROMOMETHANE	ND		2.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,2-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,3-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,4-DICHLOROBENZENE	ND		0.3	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	DICHLORODIFLUOROMETHANE	ND		1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,1-DICHLOROETHANE	ND		0.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,2-DICHLOROETHANE	ND		0.5	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,1-DICHLOROETHENE	ND		0.5	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CIS-1,2-DICHLOROETHENE	ND		1.2	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	TRANS-1,2-DICHLOROETHENE	ND		0.6	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,2-DICHLOROPROPANE	ND		0.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	CIS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	TRANS-1,3-DICHLOROPROPENE	ND		0.5	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	TRANS-1,4-DICHLORO-2-BUTENE	ND		10	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	ETHYLBENZENE	ND		0.6	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	2-HEXANONE	ND		50	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	IODOMETHANE	ND		10	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	METHYLENE CHLORIDE	ND		1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	4-METHYL-2-PENTANONE (MIBK)	ND		100	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	STYRENE	ND		0.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,1,1,2-TETRACHLOROETHANE	ND		0.5	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,1,2,2-TETRACHLOROETHANE	ND		0.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	TETRACHLOROETHENE	ND		1.4	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	TOLUENE	ND		1.1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,1,1-TRICHLOROETHANE	ND		0.8	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,1,2-TRICHLOROETHANE	ND		1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	TRICHLOROETHENE	ND		1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	TRICHLOROFLUOROMETHANE	ND		0.8	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	1,2,3-TRICHLOROPROPANE	ND		3.2	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	FREON 113	ND		1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	VINYL ACETATE	ND		50	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	VINYL CHLORIDE	ND		1.1	UG/L	
094FTIR027-021	TRIP BLANK 2	WATER	0	0	VOA8260	XYLENES (TOTAL)	ND		2.9	UG/L	

Qualifier

D	Pattern resembles diesel
H	Pattern is in the heavier hydrocarbon end of the analyte's range in the sta
M	Pattern resembles motor oil
R	Rejected
J	Estimated concentration
J -	Estimated concentration with a low bias
J +	Estimated concentration with a low bias
ND	Not detected

Comments

a	Surrogate recovery exceeded
b	Lab method blank contamination
c	Calibration exceeded
e	MS/LCS recovery exceeded
f	Field blank contamination
g	Quantification below reporting limit
i	Internal standard exceeded
z	Does not resemble a fuel pattern (single peaks)

APPENDIX C

THIRD PARTY VALIDATION REPORT

DATA VALIDATION REPORT

Site:	Fort Irwin
Contract Task Order (CTO) No :	G1058.2.4.01.094.02
Laboratory:	Applied P & Ch Laboratory
Data Reviewer:	Richard Amano, Stacey Swenson, Erlinda Rauto, Stella Cuenco, Ming Hwang, and Steve Ziliak.
Firm/Proj. No:	Laboratory Data Consultants, Inc./11396A
Review Date:	January 14 through January 15, 2004
Sample Delivery Group (SDG) No.:	ICP01

Sample Nos.:

094FTIR027-001	094FTIR027-006*	094FTIR027-027	094FTIR027-006MSD
094FTIR027-001DL	094FTIR027-020	094FTIR027-028	094FTIR027-027MS
094FTIR027-002*	094FTIR027-023	094FTIR027-028RE	094FTIR027-027MSD
094FTIR027-002DL*	094FTIR027-025	094FTIR027-029	094FTIR027-029MS
094FTIR027-003	094FTIR027-025RE	094FTIR027-030	094FTIR027-029MSD
094FTIR027-004	094FTIR027-026	094FTIR027-030DL	094FTIR027-030MS
094FTIR027-004RE	094FTIR027-026RE	094FTIR027-006MS	094FTIR027-030MSD
094FTIR027-005			

* Full Validation Sample

Matrix:	Soil and Water
Collection Date(s):	November 19, 2003

The data were qualified according to the U.S. Army Corps of Engineers (USACE) document "Environmental Data Quality Management Program Specifications, USACE Sacramento District" (Version 1.08). Data validation requirements are presented below.

I certify that all data validation criteria outlined in the above referenced documents were assessed, and any qualifications made to the data were in accordance with those documents.

Certified by Richard Amano
Principal Chemist

DATA VALIDATION REQUIREMENTS

Full validation includes all parameters listed below Cursory validation parameters are indicated by an asterisk (*).

CLP Organic Parameters

*	Holding times
	GC/MS instrument performance check
*	Initial and continuing calibrations
*	Blanks
*	Surrogate recovery
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Internal standard performance
	Target compound identification
	Tentatively identified compounds
	Compound quantitation
	Reported detection limits
	System performance
*	Overall assessment of data for the SDG

CLP Inorganic Parameters

*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
	ICP interference check sample
	GFAA quality control
*	ICP serial dilution
	Sample result verification
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

Non-CLP Organic and Inorganic Parameters

*	Method compliance
*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
*	Surrogate recovery
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

DATA VALIDATION QUALIFIERS AND CODES

Data Validation Qualifiers

UJ Estimated nondetected result

J Estimated detected result

R Rejected result

NJ Tentatively Identified Compound (TIC)

Data Validation Qualifier Codes

a Surrogate recovery exceedance

b Laboratory method blank and common blank contamination

c Calibration exceedance

d Duplicate precision exceedance

e Matrix spike/laboratory control sample (LCS) recovery exceedance

f Field blank contamination

g Quantification below reporting limit

h Holding time exceedance

i Internal standard exceedance

j Other qualifications

TABLE 1
SAMPLE CROSS REFERENCE TABLE
SAMPLE DELIVERY GROUP ICP01

Sample ID	Matrix	Date Collected	Quality Control ID	Validation Criteria*	Analyses																
					VOC	SVOC	TPPH	TEPH	pH	TOC	HPC										
094FTIR027-001	Soil	11/19/03			X	X	X	X	X		X										
094FTIR027-002	Soil	11/19/03		Full	X	X	X	X	X												
094FTIR027-003	Soil	11/19/03			X	X	X	X	X												
094FTIR027-004	Soil	11/19/03	Field Duplicate of 094FTIR027-003		X	X	X	X	X												
094FTIR027-005	Soil	11/19/03			X	X	X	X	X												
094FTIR027-006	Soil	11/19/03	MS/MSD**	Full	X	X	X	X	X	X**											
094FTIR027-020	Water	11/19/03	Trip Blank		X		X														
094FTIR027-023	Water	11/19/03	Equipment Rinsate		X	X	X	X		X											
094FTIR027-025	Soil	11/19/03			X	X	X	X	X												
094FTIR027-026	Soil	11/19/03			X	X	X	X	X												
094FTIR027-027	Soil	11/19/03	MS/MSD**		X**	X	X	X	X												
094FTIR027-028	Soil	11/19/03			X	X	X	X	X												
094FTIR027-029	Soil	11/19/03	MS/MSD**		X	X**	X	X**	X												
094FTIR027-030	Soil	11/19/03	MS/MSD**		X**	X	X	X	X												

* = Cursory validation performed on all samples
** = MS/MSD/DUP performed on indicated parameters only
DUP = Matrix duplicate
HPC = Heterotrophic Plate Count
*** = Full review performed on indicated parameters only
VOC = Volatile Organic Compounds
TEPH = Total Extractable Petroleum Hydrocarbons
MS/MSD = Matrix Spike/Matrix Spike Duplicate
SVOC = Semivolatile Organic Compounds
TPPH = Total Purgeable Petroleum Hydrocarbons

DATA ASSESSMENT

VOLATILE ORGANIC ANALYSIS (EPA SW 846 Method 8260B)

I. Holding Times

A. The 14 day analysis holding time requirement for soils and preserved waters was met.

II. Surrogate Recovery

A. The surrogate percent recoveries (%R) were within the QC limits.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was performed on samples 0194FTIR027-027 and 094FTIR027-030 and a non-client sample. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) were within the QC limits.

V. Blank Contamination

A. Due to common laboratory contamination, the following results are considered nondetected (UJb).

• Methylene chloride in samples	094FTIR027-001	094FTIR027-005	094FTIR027-027
	094FTIR027-002*	094FTIR027-006*	094FTIR027-028
	094FTIR027-003	094FTIR027-025	094FTIR027-029
	094FTIR027-004	094FTIR027-026	094FTIR027-030
• Acetone in samples	094FTIR027-001	094FTIR027-006*	094FTIR027-027
	094FTIR027-002*	094FTIR027-023	094FTIR027-028
	094FTIR027-003	094FTIR027-025	094FTIR027-029
	094FTIR027-004	094FTIR027-026	094FTIR027-030
	094FTIR027-005		
• 2-Butanone in samples	094FTIR027-003	094FTIR027-006*	094FTIR027-026

Acetone, Methylene chloride, and 2-Butanone are considered common laboratory contaminants when found at levels less than 5x the CRQL in environmental samples and not found in the associated blanks.

B. No samples were qualified based on the volatile contaminants found in the method blanks. No volatile contaminants found in the trip blank sample 094FTIR027-020.

C Due to equipment rinsate contamination, the following results are considered nondetected (UJf).

- Toluene in samples 094FTIR027-005 094FTIR027-028 094FTIR027-029 094FTIR027-026

The following compound was detected in the associated equipment rinsate at the concentration noted below.

Field Blank ID	Compound	Concentration, µg/L
094FTIR027-023	Toluene	2.0

Detected results less than 5x the blank contamination were qualified.

VI. Calibrations

A. Initial calibration was performed using required standard concentrations. Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all volatile compounds, the coefficients of determination (r^2) were ≥0.990, and all of the initial calibration RRF values were greater than or equal to 0.05 for all volatile compounds with the exception listed below.

B. Due to initial calibration problems, the following nondetected results are rejected (Rc).

- Acrylonitrile in samples 094FTIR027-020 094FTIR027-023

The relative response factors which did not meet the QC limit of ≥ 0.05 are listed below.

Calibration Date	Compound	RRF
10/21/03	Acrylonitrile	0.043

C. Continuing calibration was performed at the required frequencies as stated in the method. All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% with the exceptions listed below.

D. Due to continuing calibration problems, the following nondetected results are rejected (Rc).

- Acrylonitrile and 2-Butanone in samples 094FTIR027-020 094FTIR027-023

The relative response factors which did not meet the QC limit of ≥ 0.05 are listed below.

Calibration Date	Compound	RRF
11/24/03	Acrylonitrile	0.038
11/24/03	2-Butanone	0.047
10/21/03 (ICV)	Acrylonitrile	0.046

E. Due to continuing calibration problems, the following nondetected results are qualified as estimated (UJc).

- Dichlorodifluoromethane 094FTIR027-003 094FTIR027-025 094FTIR027-028

in samples	094FTIR027-005 094FTIR027-006*	094FTIR027-026	094FTIR027-029
• Bromomethane and Iodomethane in samples		094FTIR027-020	094FTIR027-023

The following continuing calibrations had percent differences (%D) of >25%.

Calibration Date	Compound	%D
11/26/03	Dichlorodifluoromethane	27.3
11/24/03	Bromomethane	30.00
11/24/03	Iodomethane	32.07

F. Due to continuing calibration problems, the following detected results are qualified as estimated (J+c).

• Acetone in samples	094FTIR027-003	094FTIR027-025	094FTIR027-029
	094FTIR027-005	094FTIR027-026	094FTIR027-023
	094FTIR027-006*	094FTIR027-028	094FTIR027-027

The following continuing calibrations had percent differences (%D) of >25%.

Calibration Date	Compound	%D
11/26/03	Acetone	27.3
12/2/03	Acetone	97.4
10/21/03	Acetone	103.90

G. The following continuing calibrations had percent differences (%D) of >25%.

Calibration Date	Compound	%D
12/2/03	2-Butanone	31.1
10/21/03 (ICV)	2-Butanone	39.94

Although the above listed percent differences demonstrate a high bias, the associated sample results were nondetected and therefore were not qualified.

VII. Internal Standards

A. All internal standard area counts were within -50% to +100% of the associated calibration standard and retention times were ±30 seconds of the associated calibration standard retention time.

VIII. Field Duplicate

A. The following RPDs were obtained for the field duplicate samples 094FTIR027-003 / 094FTIR027-004:

- 198% for Acetone
- 200% for 2-Butanone
- 199% for Methylene chloride
- 200% for 1,2-Dichlorobenzene
- 200% for 1,4-Dichlorobenzene

- 200% for Ethylbenzene
- 200% for Xylenes, total

For soil samples, the field RPD guideline is ± 50%. The data are not qualified on the basis of field duplicate results.

IX. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All VOA detected results reported below the RL.

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

Full Validation Criteria for Samples 094FTIR027-002* and 094FTIR027-006*

X. GC/MS Instrument Performance Checks

A. The ion abundance criteria were met for the bromofluorobenzene (BFB) GC/MS instrument performance check. The samples were analyzed within 12 hours of the associated instrument performance check.

XI. Target Compound List (TCL) Identification

A. The relative retention times, mass spectra, and peak identifications of the samples were evaluated. Target compound identification was considered to be correct.

XII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

B. Methyl-tert-butyl ether was not reported by the laboratory. All target compounds must be reported as per the QAPP.

XIII. Tentatively Identified Compounds (TICs)

A. The TIC library searches were not performed for this SDG.

XIV. System Performance

A. The samples were evaluated for reconstructed ion chromatogram (RIC) baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

SEMIVOLATILE ORGANIC ANALYSIS (EPA SW 846 8270C)

I. Holding Times

A. The 7 day extraction holding time requirements for waters and the 14 day extraction holding time requirements for soils and 40 day analysis holding time requirements were met.

II. Surrogate Recovery

A. Surrogates were diluted out in seventeen samples. No data qualifications were performed based on diluted surrogate results. All other surrogate percent recoveries (%R) were within QC limits.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was performed on sample 094FTIR027-029. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) were within the QC limits.

V. Blank Contamination

A. Due to common laboratory contamination, the following results are considered nondetected (UJb).

- Diethylphthalate in sample 094FTIR027-023
- Bis(2-ethylhexyl)phthalate in samples 094FTIR027-003, 094FTIR027-005, 094FTIR027-006*, 094FTIR027-023, 094FTIR027-025, 094FTIR027-025RE, 094FTIR027-027, 094FTIR027-028, 094FTIR027-028RE

Dimethylphthalate, Diethylphthalate, Di-n-butylphthalate, Butylbenzylphthalate, Bis(2-ethylhexyl)phthalate, and Di-n-octylphthalate are considered common laboratory contaminants when found at levels less than 5x the CRQL in environmental samples and not found in the associated blanks.

B. No semivolatile contaminants were found in the method blanks. No samples were qualified based on the semivolatile contaminants found in the equipment rinsate sample 094FTIR027-023.

VI. Calibrations

A. Initial calibration was performed using required standard concentrations. Percent relative standard deviations (%RSD) were less than or equal to 30.0%, the coefficients of determination (r^2) were ≥0.990, and average relative response factors (RRF) were greater than or equal to 0.05 for all semivolatile compounds.

B. Continuing calibration was performed at the required frequencies in the method. All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% and all of the continuing calibration RRF values were greater than or equal to 0.05 with the exceptions listed below.

C. Due to continuing calibration problems, the following nondetected results are rejected (Rc).

- Benzo(g,h,i)perylene in samples 094FTIR027-001DL, 094FTIR027-002DL*, 094FTIR027-030DL

The following continuing calibrations had percent differences (%D) of >25%.

Calibration Date	Compound	%D
12/5/03	Benzo(g,h,i)perylene	52.05

E. Due to continuing calibration problems, the following nondetected results are qualified as estimated (UJc).

- Benzo(g,h,i)perylene in samples: 094FTIR027-003, 094FTIR027-004, 094FTIR027-005, 094FTIR027-006*, 094FTIR027-025, 094FTIR027-027, 094FTIR027-028, 094FTIR027-029
- Indeno(1,2,3-cd)pyrene and Dibenz(a,h)anthracene in samples: 094FTIR027-001, 094FTIR027-002*, 094FTIR027-004RE, 094FTIR027-025RE, 094FTIR027-026, 094FTIR027-026RE, 094FTIR027-028RE, 094FTIR027-030
- Di-n-octylphthalate, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, and Dibenz(a,h)anthracene in samples: 094FTIR027-001DL, 094FTIR027-002DL*, 094FTIR027-030DL

The following continuing calibrations had percent differences (%D) of >25% (20% for CCC compounds).

Calibration Date	Compound	%D
12/3/03	Benzo(g,h,i)perylene	26.42
12/4/03	Indeno(1,2,3-cd)pyrene	27.08
12/4/03	Dibenz(a,h)anthracene	27.14
12/5/03	Di-n-octylphthalate	41.97
12/5/03	Benzo(k)fluoranthene	45.68
12/5/03	Indeno(1,2,3-cd)pyrene	38.95
12/5/03	Dibenz(a,h)anthracene	36.56

VII. Internal Standards

A. All internal standard area counts were within -50% to +100% of the associated calibration standard and retention times were ±30 seconds of the associated calibration standard retention time with the exceptions listed below.

B. Due to internal standard problems, the following detected and nondetected results are qualified as estimated (Ji/UJi).

• Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene, and Dibenz(a,h)anthracene in samples	094FTIR027-028 094FTIR027-025 094FTIR027-004 094FTIR027-028RE	094FTIR027-025RE 094FTIR027-004RE 094FTIR027-026

• Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl)phthalate, and Chrysene in samples	094FTIR027-002* 094FTIR027-001 094FTIR027-030 094FTIR027-026RE

The internal standard area counts in the samples listed above were less than one half of the reference standard and are listed below.

Sample ID	Internal Standard	Area	QC Limits
094FTIR027-028	Perylene-d12	81357	156144-624576
094FTIR027-025	Perylene-d12	96846	156144-624576
094FTIR027-004	Perylene-d12	85311	156144-624576
094FTIR027-028RE	Perylene-d12	92827	156403-625612
094FTIR027-025RE	Perylene-d12	92958	156403-625612
094FTIR027-004RE	Perylene-d12	78095	156403-625612
094FTIR027-026	Perylene-d12	81260	156403-625612
094FTIR027-002*	Chrysene-d12	213010	228214-912858
094FTIR027-002*	Perylene-d12	58319	156403-625612
094FTIR027-001	Chrysene-d12	177244	228214-912858
094FTIR027-001	Perylene-d12	44416	156403-625612
094FTIR027-030	Chrysene-d12	149372	228214-912858
094FTIR027-030	Perylene-d12	37438	156403-625612
094FTIR027-026RE	Chrysene-d12	183793	228214-912858
094FTIR027-026RE	Perylene-d12	46941	156403-625612

Internal standard area counts of less than 50% of the standard area count may indicate a loss of instrument sensitivity

VIII. Field Duplicate

A. The following RPDs were obtained for the field duplicate samples 094FTIR027-003 / 094FTIR027-004:

- 200% for Bis(2-ethylhexyl)phthalate
- 200% for 2-Methylnaphthalene

- 200% for Acenaphthene
- 200% for Benzo(a)anthracene
- 200% for Chrysene
- 200% for Fluoranthene
- 200% for Fluorene
- 200% for Naphthalene
- 200% for Phenanthrene
- 200% for Pyrene

The following RPDs were obtained for the field duplicate samples 094FTIR027-003 / 094FTIR027-004RE:

- 200% for Bis(2-ethylhexyl)phthalate
- 200% for 2-Methylnaphthalene
- 200% for Acenaphthene
- 200% for Benzo(a)anthracene
- 200% for Chrysene
- 200% for Fluorene
- 200% for Naphthalene
- 200% for Phenanthrene
- 200% for Pyrene

For soil samples, the field RPD guideline is ± 50% The data are not qualified on the basis of field duplicate results.

IX. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All SVOA detected results reported below the RL.

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

B The following detected results are qualified as estimated (Jj).

- 2-Methylnaphthalene in samples 094FTIR027-001 094FTIR027-002* 094FTIR027-030

The above listed sample results exceeded the calibration range.

Full Validation Criteria for Samples 094FTIR027-002*, 094FTIR027-002DL*, and 094FTIR027-006*

X. GC/MS Instrument Performance Checks

A. The ion abundance criteria were met for the decafluorotriphenylphosphine (DFTPP) GC/MS instrument performance checks. The samples were analyzed within 12 hours of the associated instrument performance check

XI. Target Compound List (TCL) Identification

A The relative retention times, mass spectra, and peak identifications of the samples were evaluated. Target compound identification was considered to be correct.

XII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

B. 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and 1,2-Dichlorobenzene were not reported by the laboratory. All target compounds must be reported as per the QAPP.

XIII. Tentatively Identified Compounds (TICs)

A. The TIC library searches were not performed for this SDG.

XIV. System Performance

A. The samples were evaluated for reconstructed ion chromatogram (RIC) baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

TPH GASOLINE (TPHG) ANALYSIS

I. Holding Times

A. The 14 day analysis holding time requirement for soils and preserved waters was met.

II. Surrogate Recovery

A. All surrogate recoveries (%R) were within the QC limits with the exceptions listed below

B. The surrogates outside of QC limits are listed below.

Sample ID	Surrogate	% R	QC Limits
094FTIR027-001	4-Bromofluorobenzene	159	75-125%
094FTIR027-002*	4-Bromofluorobenzene	151	75-125%
094FTIR027-004	4-Bromofluorobenzene	165	75-125%
094FTIR027-026	4-Bromofluorobenzene	214	75-125%

Although the above listed percent recoveries demonstrate a high bias, the associated sample results were nondetected and therefore were not qualified.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was not performed for samples 094FTIR027-027 and 094FTIR027-028. Although this is a protocol violation, the associated LCS/LCSD recoveries and relative percent differences (RPD) were within the QC limits and no data was qualified. The MS/MSD analysis was performed on a non-client sample for all other samples. The percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the parent sample is not in this SDG, no data was qualified.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits with the exception listed below.

B. Due to a problem in the LCS/LCSD analysis, the following detected results are qualified as estimated (J-e)

- TPH as gasoline in samples 094FTIR027-001 094FTIR027-002* 094FTIR027-004

The result obtained in the analysis of the LCS/LCSD which was not within the control limits is shown below.

LCS ID	Compound	LCS % R	LCSD % R	QC Limits	RPD	QC Limits
4958GLCS/D	TPH as gasoline	74	-	75-125%	-	-

Detected results may be biased low and false nondetects may have been reported.

V. Blank Contamination

A. No samples were qualified based on the TPHG contaminants found in the method blanks, the trip blank sample 094FTIR027-020, and the equipment rinsate sample 094FTIR027-023

VI. Calibrations

A Initial calibration of compounds was performed as required by the method. The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

B. Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

VII. Field Duplicate

A. The following RPDs were obtained for the field duplicate samples 094FTIR027-003 / 094FTIR027-004:

- 200% for TPH as gasoline

For soil samples, the field RPD guideline is ± 50%. The data are not qualified on the basis of field duplicate results.

VIII. Other Qualifications

A The following results are qualified as estimated (Jg).

- All TPHG detected results reported below the Tetra Tech EMI required report limit (RL).

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

B. The following results are qualified as estimated (H)

- All TPHG detected results flagged with a "H" by the laboratory.

Detected results flagged "H" by the laboratory indicate that a fuel pattern was present, however, it is in the lighter hydrocarbon end of the detected compounds range.

Full Validation Criteria for Samples 094FTIR027-002* and 094FTIR027-006*

IX. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

X. System Performance

A. The samples were evaluated for baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

XI. Compound Identification

A. Target compound identification was considered to be correct for samples 094FTIR027-002* and 094FTIR027-006*.

TPH EXTRACTABLE (TPHE) ANALYSIS

I. Holding Times

A. The 14 day extraction and 40 day analysis holding time requirements for soils and preserved waters was met.

II. Surrogate Recovery

A. All surrogate recoveries (%R) were within the QC limits with the exceptions listed below.

B. The surrogates outside of QC limits are listed below.

Sample ID	Surrogate	% R	QC Limits
094FTIR027-001	n-Octacosane	405	50-150%
094FTIR027-030	n-Octacosane	156	50-150%

Although the above listed percent recoveries demonstrate a high bias, the associated sample results were nondetected and therefore were not qualified.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was not performed for the water sample in this SDG. Since this is a field QC sample, no data was qualified. The MS/MSD analysis was performed on sample 094FTIR027-029 for all other samples. The percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the parent sample is not in this SDG, no data was qualified.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

V. Blank Contamination

A. No TPHE contaminants were found in the method blanks and the equipment rinsate sample 094FTIR027-023.

VI. Calibrations

A. Initial calibration of compounds was performed as required by the method. The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

B. Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

VII. Field Duplicate

A. The following RPDs were obtained for the field duplicate samples 094FTIR027-003 / 094FTIR027-004:

- 200% for TPH as diesel
- 198% for TPH as motor oil

For soil samples, the field RPD guideline is ± 50%. The data are not qualified on the basis of field duplicate results.

VIII. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All TPHE detected results reported below the Tetra Tech EMI required report limit (RL).

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

B. The following results are qualified as estimated (M).

- All TPHE detected results flagged with a "M" by the laboratory.

Detected results flagged M by the laboratory indicate that the standard fuel pattern resembles motor oil.

Full Validation Criteria for Samples 094FTIR027-002* and 094FTIR027-006*

IX. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

X. System Performance

A. The samples were evaluated for baseline shifts, extraneous peaks, loss of resolution, and peak tailing No system degradation was noted.

XI. Compound Identification

A. Target compound identification was considered to be correct for samples 094FTIR027-002* and 094FTIR027-006*.

NON-CLP INORGANIC AND PHYSICAL ANALYSIS

The following non-CLP inorganic and physical parameters were analyzed for: Heterotrophic Plate Count (HPC), Total Organic Carbon (TOC), and pH.

I. Holding Times

A The 48 hour analysis holding time requirement for HPC and the 28 day analysis holding time requirement for TOC and pH were met.

II. Calibrations

A. All instruments were calibrated daily and the proper number of standards were used as required by the methods. All Initial and Continuing calibration verifications were performed at the proper frequency and percent recoveries (%R) were within the 90-110% QC limits and all initial calibration correlation coefficients were ≥ to 0.995 .

III. Blank Contamination

A No contaminant concentrations were detected in the method blanks and the equipment rinsate sample 094FTIR027-023.

IV. Matrix Spike (MS)

A The MS/MSD analysis was not performed for TOC for the water samples in this SDG. Since this is a field QC sample, no data was qualified. The MS/MSD analyses were performed on sample 09FTIR027-006 for all other analyses. Percent recoveries (%R) were within the QC limits and relative percent differences (RPD) were within the ≤20% QC limits for inorganic analyses and the ≤10% QC limits for physical analysis.

V. Matrix Duplicate (DUP)

A The DUP analysis was not performed for HPC for this SDG. Although this is a protocol violation, the associated MS/MSD relative percent differences (RPD) were within the QC limits and no data was qualified. The MS/MSD analyses were performed on a non-client sample for all other analyses.

VI. Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

VII. Field Duplicate

A. No RPDs above 50% were obtained for the field duplicate samples 094FTIR027-003 / 094FTIR027-004.

VIII. Other Qualifications

A No results were reported below the RL.

Full Validation Criteria for Samples 094FTIR027-002 and 094FTIR027-006*

IX. Analyte Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated.

The reported detection limits for sample 094FTIR027-006* were not consistent with Tetra Tech EMI's required report limits. The RL was reported at 100 mg/Kg for TOC. The RL should be ≤ the Tetra Tech EMI RL which is 1 0 mg/Kg for TOC.

The reported sample results reflect any dilutions, weights, volumes, and percent moisture.

OVERALL ASSESSMENT OF DATA

I. Method Compliance and Additional Comments

A. All analyses were conducted within all specifications of the requested methods with the exception listed below

- For the volatile analysis, Methyl-tert-butyl ether was not reported by the laboratory. All target compounds must be reported as per the QAPP.
- For the semivolatile analysis, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and 1,2-Dichlorobenzene were not reported by the laboratory. All target compounds must be reported as per the QAPP.
- For the TPHG analysis, the MS/MSD analysis was not performed for samples 094FTIR027-027 and 094FTIR027-028. Although this is a protocol violation, the associated LCS/LCSD recoveries and relative percent differences (RPD) were within the QC limits and no data was qualified.
- For the TPHE analysis, The MS/MSD analysis was not performed for the water sample in this SDG. Since this is a field QC sample, no data was qualified.
- For the non-CLP inorganic and physical analysis, the MS/MSD analysis was not performed for TOC for the water sample in this SDG. Since this is a field QC sample, no data was qualified.
- For the non-CLP inorganic and physical analysis, the DUP analysis was not performed for HPC for this SDG. Although this is a protocol violation, the associated MS/MSD relative percent differences (RPD) were within the QC limits and no data was qualified.
- For the non-CLP inorganic and physical analysis, the reported detection limits for sample 094FTIR027-006* were not consistent with Tetra Tech EMI's required report limits. The RL was reported at 100 mg/Kg for TOC. The RL should be ≤ the Tetra Tech EMI RL which is 1.0 mg/Kg for TOC.

II. Usability

<u>SW 846 Volatile Organic Analysis</u>

A. Due to severe problems in the instrument calibration in the volatile analysis, selected sample results were rejected. The findings were as follows:

- Due to initial calibration RRF problems, Acrylonitrile nondetected results were rejected in samples 094FTIR027-020 and 094FTIR027-023.
- Due to continuing calibration RRF problems, Acrylonitrile and 2-Butanone nondetected results were rejected in samples 094FTIR027-020 and 094FTIR027-023

B. Due to instrument calibration and common laboratory and field blank contamination problems in the volatile analysis, several samples were qualified as estimated. The findings were as follows:

- Due to continuing calibration %D problems, Dichlorodifluoromethane nondetected results were qualified as estimated in seven samples, Bromomethane and Iodomethane nondetected results were qualified as estimated in two samples, and Acetone detected results were qualified as estimated in nine samples.

- Due to common laboratory contamination problems, Methylene chloride was qualified nondetect in twelve samples, Acetone was qualified nondetect in thirteen samples, and 2-Butanone was qualified nondetect in three samples.
- Due to trip blank contamination problems, Toluene was qualified nondetect in four samples.

- All detected results reported below the RL were qualified as estimated.

C. No samples were reextracted or reanalyzed for volatile analysis in this SDG.

SW 846 Semivolatile Organic Analysis

A. Due to severe problems in the instrument calibration in the semivolatile analysis, selected sample results were rejected. The findings were as follows:

- Due to continuing calibration %D problems, Benzo(g,h,i)perylene nondetected results were rejected in samples 094FTIR027-001DL, 094FTIR027-002DL*, and 094FTIR027-030DL.

B. Due to common laboratory contamination, instrument calibration, and internal standard problems in the semivolatile analysis, several samples were qualified as estimated. The findings were as follows:

- Due to common laboratory contamination problems, Diethylphthalate was qualified nondetect in one sample and Bis(2-ethylhexyl)phthalate was qualified nondetect in nine samples.

- Due to continuing calibration %D problems, Benzo(g,h,i)perylene, Indeno(1,2,3-cd)pyrene, and Dibenz(a,h)anthracene nondetected results were qualified as estimated in eight samples and Di-n-octylphthalate, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, and Dibenz(a,h)anthracene nondetected results were qualified as estimated in three samples.

- Due to internal standard area count problems, Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene, and Dibenz(a,h)anthracene results were qualified as estimated in eleven samples and Dibenz(a,h)anthracene, Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl)phthalate, and Chrysene nondetected results were qualified as estimated in four samples

- All detected results reported below the RL were qualified as estimated.

C. Samples 094FTIR027-001, 094FTIR027-002*, and 094FTIR027-030 were diluted due to sample results exceeding the calibration range and samples 094FTIR027-004, 094FTIR027-028, 094FTIR027-026, and 094FTIR027-028 were reanalyzed due to low internal standard area counts. For samples 094FTIR027-001, 094FTIR027-002*, and 094FTIR027-030, all semivolatile results except 2-Methylnaphthalene should be considered the most usable. The 2-Methylnaphthalene results for samples 094FTIR027-001DL, 094FTIR027-002DL*, and 094FTIR027-030DL should be considered the most usable. For samples 094FTIR027-004, 094FTIR027-028, 094FTIR027-026, and 094FTIR027-028, since the reanalyzed samples, 094FTIR027-004RE, 094FTIR027-028RE, 094FTIR027-026RE, and 094FTIR027-028RE, had internal standard area counts within the QC limits, the reanalyzed results should be considered the most usable.

TPH Gasoline Analysis

A. No results for TPH gasoline analysis were rejected in this SDG.

B. Due to LCS/LCSD problems in the TPH gasoline analysis, several samples were qualified as estimated. The findings were as follows:

- Due to LCS/LCSD recovery problems, TPH gasoline detected results were qualified as estimated in three samples.
- All detected results reported below the RL were qualified as estimated.
- All detected results flagged with a "H" by the laboratory were qualified as estimated.

C. No samples were reextracted or reanalyzed for TPH gasoline analysis in this SDG.

TPH Extractable Analysis

A. No results for TPH extractable analysis were rejected in this SDG.

B. Due to problems in the TPH extractable analysis, several samples were qualified as estimated. The findings were as follows:

- All detected results reported below the RL were qualified as estimated.
- All detected results flagged with a "M" by the laboratory were qualified as estimated.

C. No samples were reextracted or reanalyzed for TPH extractable analysis in this SDG.

Non-CLP Inorganic and Physical Analysis

A. No results for non-CLP inorganic and physical analysis were rejected in this SDG.

B. No samples were reextracted or reanalyzed for non-CLP inorganic and physical analysis in this SDG.

III. The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Sample results that were found to be rejected (R) are unusable for all purposes. Based upon the cursory and full data validation, all other results are considered valid and usable for all purposes.

DATA VALIDATION REPORT ADDENDUM
MODIFICATION TO THE REPORT
ICP01

Prepared by:	John Swanson, Tetra Tech EM, Inc
Date:	2/5/04
Site Name/Job Number:	Ft Irwin/G1058.2 4.01.094.02
Laboratory:	Applied Physics and Chemistry Laboratory (APCL), Chino, California
Data Validation Firm:	Laboratory Data Consultants

Volatile Organics Analysis

1. Several results were qualified as "UJ" due to method blank or common laboratory contamination, or due to field blank contamination. According to the qualifier definitions established in the USACE Data Quality Program Management Specifications, these results should be qualified "U." These changes were made to the database.

Semivolatile Organics Analysis

1. Several results were qualified as "UJ" due to method blank or common laboratory contamination. According to the qualifier definitions established in the USACE Data Quality Program Management Specifications, these results should be qualified "U." These changes were made to the database.

TPH Gasoline Analysis

1. Several results included the qualifier comment "h" to indicate that TPH patterns were in the heavier portion of the gasoline range. These comment codes are not used for USACE projects, and were removed from the database.

TPH Extractable Analysis

1. Several results included the qualifier comment "m" to indicate that TPH patterns were in the motor oil range. These comment codes are not used for USACE projects, and were removed from the database.

There were no other modifications to the validation report.

DATA VALIDATION REPORT

Site:	Fort Irwin
Contract Task Order (CTO) No :	G1058 2.4.01.094 02
Laboratory:	Applied P & Ch Laboratory
Data Reviewer:	Richard Amano, Stacey Swenson, Erlinda Rauto, Stella Cuenco, Ming Hwang, and Steve Ziliak.
Firm/Proj. No:	Laboratory Data Consultants, Inc./11396B
Review Date:	January 14 through January 16, 2004
Sample Delivery Group (SDG) No.:	ICP02

Sample Nos.:

094FTIR027-007*	094FTIR027-011RE	094FTIR027-032	094FTIR027-038
094FTIR027-007RE*	094FTIR027-012	094FTIR027-033	094FTIR027-039
094FTIR027-008	094FTIR027-021	094FTIR027-034	094FTIR027-040
094FTIR027-008RE	094FTIR027-022	094FTIR027-035	094FTIR027-007DUP
094FTIR027-010	094FTIR027-024	094FTIR027-036	094FTIR027-034MS
094FTIR027-010RE	094FTIR027-031*	094FTIR027-037	094FTIR027-034MSD
094FTIR027-011			

* Full Validation Sample

Matrix:	Soil and Water
Collection Date(s):	November 20, 2003

The data were qualified according to the U.S. Army Corps of Engineers (USACE) document "Environmental Data Quality Management Program Specifications, USACE Sacramento District" (Version 1.08). Data validation requirements are presented below.

I certify that all data validation criteria outlined in the above referenced documents were assessed, and any qualifications made to the data were in accordance with those documents.

Certified by Richard Amano
Principal Chemist

DATA VALIDATION REQUIREMENTS

Full validation includes all parameters listed below. Cursory validation parameters are indicated by an asterisk (*).

CLP Organic Parameters

*	Holding times
	GC/MS instrument performance check
*	Initial and continuing calibrations
*	Blanks
*	Surrogate recovery
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Internal standard performance
	Target compound identification
	Tentatively identified compounds
	Compound quantitation
	Reported detection limits
	System performance
*	Overall assessment of data for the SDG

CLP Inorganic Parameters

*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
	ICP interference check sample
	GFAA quality control
*	ICP serial dilution
	Sample result verification
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

Non-CLP Organic and Inorganic Parameters

*	Method compliance
*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
*	Surrogate recovery
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

DATA VALIDATION QUALIFIERS AND CODES

Data Validation Qualifiers

UJ Estimated nondetected result

J Estimated detected result

R Rejected result

NJ Tentatively Identified Compound (TIC)

Data Validation Qualifier Codes

a Surrogate recovery exceedance

b Laboratory method blank and common blank contamination

c Calibration exceedance

d Duplicate precision exceedance

e Matrix spike/laboratory control sample (LCS) recovery exceedance

f Field blank contamination

g Quantification below reporting limit

h Holding time exceedance

i Internal standard exceedance

j Other qualifications

TABLE 1
SAMPLE CROSS REFERENCE TABLE
SAMPLE DELIVERY GROUP ICP02

Sample ID	Matrix	Date Collected	Quality Control ID	Validation Criteria*	Analyses																
					VOC	SVOC	TPPH	TEPH	pH	TOC	HPC										
094FTIR027-007	Soil	11/20/03	DUP**	Full	X	X	X	X	X**												
094FTIR027-008	Soil	11/20/03			X	X	X	X	X												
094FTIR027-010	Soil	11/20/03			X	X	X	X	X		X										
094FTIR027-011	Soil	11/20/03			X	X	X	X	X												
094FTIR027-012	Soil	11/20/03			X	X	X	X	X	X											
094FTIR027-021	Water	11/20/03	Trip Blank		X		X														
094FTIR027-022	Water	11/20/03	Field Blank		X	X	X	X		X											
094FTIR027-024	Water	11/20/03	Equipment Rinsate		X	X	X	X		X											
094FTIR027-031	Soil	11/20/03		Full	X	X	X	X	X												
094FTIR027-032	Soil	11/20/03			X	X	X	X	X												
094FTIR027-033	Soil	11/20/03			X	X	X	X	X												
094FTIR027-034	Soil	11/20/03	MS/MSD**		X	X**	X	X**	X												
094FTIR027-035	Soil	11/20/03			X	X	X	X	X												
094FTIR027-036	Soil	11/20/03			X	X	X	X	X												
094FTIR027-037	Soil	11/20/03				X	X	X	X												
094FTIR027-038	Soil	11/20/03	Field Duplicate of 094FTIR027-037			X	X	X	X												
094FTIR027-039	Soil	11/20/03				X	X	X	X												
094FTIR027-040	Soil	11/20/03				X	X	X	X												

* = Cursory validation performed on all samples
** = MS/MSD/DUP performed on indicated parameters only
DUP = Matrix duplicate
HPC = Heterotrophic Plate Count
*** = Full review performed on indicated parameters only
VOC = Volatile Organic Compounds
TEPH = Total Extractable Petroleum Hydrocarbons
MS/MSD = Matrix Spike/Matrix Spike Duplicate
SVOC = Semivolatile Organic Compounds
TPPH = Total Purgeable Petroleum Hydrocarbons

DATA ASSESSMENT

VOLATILE ORGANIC ANALYSIS (EPA SW 846 Method 8260B)

I. Holding Times

A The 14 day analysis holding time requirement for soils and preserved waters was met.

II. Surrogate Recovery

A. The surrogate percent recoveries (%R) were within the QC limits.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was performed on samples 094FTIR027-030 and a non-client sample. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) were within the QC limits.

V. Blank Contamination

A. Due to common laboratory contamination, the following results are considered nondetected (UJb).

• Methylene chloride and Acetone in samples	094FTIR027-007*	094FTIR027-012	094FTIR027-034
	094FTIR027-008	094FTIR027-031*	094FTIR027-035
	094FTIR027-010	094FTIR027-032	094FTIR027-036
	094FTIR027-011	094FTIR027-033	
• 2-Butanone in sample	094FTIR027-011		

Acetone, Methylene chloride, and 2-Butanone are considered common laboratory contaminants when found at levels less than 5x the CRQL in environmental samples and not found in the associated blanks

B. No samples were qualified based on the volatile contaminants found in the method blanks, the field blank sample 094FTIR027-022, and the equipment rinsate sample 094FTIR027-024. No volatile contaminants were found in the trip blank sample 094FTIR027-021.

VI. Calibrations

A. Initial calibration was performed using required standard concentrations Percent relative standard deviations (%RSD) were less than or equal to 30 0% for all volatile compounds, the coefficients of determination (r^2) were ≥0.990, and all of the initial calibration RRF values were greater than or equal to 0 05 for all volatile compounds with the exception listed below.

B. Due to initial calibration problems, the following nondetected results are rejected (Rc).

• Acetone, Acrylonitrile, and 2-Butanone in samples	094FTIR027-021 094FTIR027-022	094FTIR027-024

The relative response factors which did not meet the QC limit of ≥ 0.05 are listed below.

Calibration Date	Compound	RRF
12/1/03	Acetone	0 032
12/1/03	Acrylonitrile	0.032
12/1/03	2-Butanone	0.042

C. Due to initial calibration problems, the following nondetected results are qualified as estimated (UJc).

• Acetone in samples	094FTIR027-021	094FTIR027-022	094FTIR027-024

The following initial calibrations had percent relative standard deviations (%RSD) of >30%.

Calibration Date	Compound	%RSD
12/1/03	Acetone	32 27

D. Continuing calibration was performed at the required frequencies as stated in the method. All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% with the exceptions listed below.

E. Due to continuing calibration problems, the following nondetected results are rejected (Rc).

• Acetone, Acrylonitrile, and 2-Butanone in samples	094FTIR027-021 094FTIR027-022	094FTIR027-024

The relative response factors which did not meet the QC limit of ≥ 0.05 are listed below.

Calibration Date	Compound	RRF
12/1/03	Acetone	0 026
12/1/03	Acrylonitrile	0.033
12/1/03	2-Butanone	0.039
12/1/03 (ICV)	Acetone	0.024
12/1/03 (ICV)	Acrylonitrile	0.034
12/1/03 (ICV)	2-Butanone	0 038

F. Due to continuing calibration problems, the following nondetected results are qualified as estimated (UJc).

• Iodomethane in samples	094FTIR027-011	094FTIR027-012

• Dichlorodifluoromethane in samples	094FTIR027-031* 094FTIR027-032	094FTIR027-033 094FTIR027-034	094FTIR027-035 094FTIR027-036
• Acetone in samples	094FTIR027-021	094FTIR027-022	094FTIR027-024

The following continuing calibrations had percent differences (%D) of >25%.

Calibration Date	Compound	%D
11/24/03	Iodomethane	26.41
12/1/03	Acetone	31.78
11/26/03	Dichlorodifluoromethane	27.3
12/1/03 (ICV)	Acetone	35.93

G. Due to continuing calibration problems, the following detected results are qualified as estimated (J+c).

• Acetone in samples	094FTIR027-031* 094FTIR027-032	094FTIR027-033 094FTIR027-034	094FTIR027-035 094FTIR027-036

The following continuing calibrations had percent differences (%D) of >25%.

Calibration Date	Compound	%D
11/26/03	Acetone	43.5

VII. Internal Standards

A. All internal standard area counts were within -50% to +100% of the associated calibration standard and retention times were ±30 seconds of the associated calibration standard retention time.

VIII. Field Duplicate

A. No field duplicate samples were identified in this SDG

IX. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All VOA detected results reported below the RL.

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

Full Validation Criteria for Samples 094FTIR027-007* and 094FTIR027-031*

X. GC/MS Instrument Performance Checks

A. The ion abundance criteria were met for the bromofluorobenzene (BFB) GC/MS instrument performance check. The samples were analyzed within 12 hours of the associated instrument performance check.

XI. Target Compound List (TCL) Identification

A. The relative retention times, mass spectra, and peak identifications of the samples were evaluated. Target compound identification was considered to be correct.

XII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

B. Methyl-tert-butyl ether was not reported by the laboratory. All target compounds must be reported as per the QAPP.

XIII. Tentatively Identified Compounds (TICs)

A. The TIC library searches were not performed for this SDG.

XIV. System Performance

A. The samples were evaluated for reconstructed ion chromatogram (RIC) baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

SEMIVOLATILE ORGANIC ANALYSIS (EPA SW 846 8270C)

I. Holding Times

A. The 7 day extraction holding time requirements for waters and the 14 day extraction holding time requirements for soils and 40 day analysis holding time requirements were met.

II. Surrogate Recovery

A. Surrogates were diluted out in eight samples. No data qualifications were performed based on diluted surrogate results. All other surrogate percent recoveries (%R) were within QC limits.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was not performed for the water samples in this SDG. Since these are field QC samples, no data was qualified. The MS/MSD analysis was performed on sample 094FTIR027-034 for the soil samples. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS/LCSD QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

V. Blank Contamination

A. Due to common laboratory contamination, the following results are considered nondetected (UJb).

• Bis(2-ethylhexyl)phthalate	094FTIR027-024	094FTIR027-037	094FTIR027-039
in samples	094FTIR027-033	094FTIR027-038	094FTIR027-040

Dimethylphthalate, Diethylphthalate, Di-n-butylphthalate, Butylbenzylphthalate, Bis(2-ethylhexyl)phthalate, and Di-n-octylphthalate are considered common laboratory contaminants when found at levels less than 5x the CRQL in environmental samples and not found in the associated blanks.

B. No semivolatile contaminants were found in the method blanks, the field blank sample 094FTIR027-022, and the equipment rinsate sample 094FTIR027-024

VI. Calibrations

A. Initial calibration was performed using required standard concentrations. Percent relative standard deviations (%RSD) were less than or equal to 30.0%, the coefficients of determination (r^2) were ≥0.990, and average relative response factors (RRF) were greater than or equal to 0.05 for all semivolatile compounds.

B. Continuing calibration was performed at the required frequencies in the method. All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% and all of the continuing calibration RRF values were greater than or equal to 0.05 with the exceptions listed below.

C. Due to continuing calibration problems, the following nondetected results are rejected (Rc).

• Benzo(g,h,i)perylene in samples	094FTIR027-007RE* 094FTIR027-008RE	094FTIR027-010RE 094FTIR027-011RE

The following continuing calibrations had percent differences (%D) of >25%.

Calibration Date	Compound	%D
12/5/03	Benzo(g,h,i)perylene	52.05

E. Due to continuing calibration problems, the following nondetected results are qualified as estimated (UJc).

• Indeno(1,2,3-cd)pyrene, and Dibenz(a,h)anthracene in samples	094FTIR027-007* 094FTIR027-008	094FTIR027-010 094FTIR027-011
• Di-n-octylphthalate, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, and Dibenz(a,h)anthracene in samples	094FTIR027-007RE* 094FTIR027-008RE	094FTIR027-010RE 094FTIR027-011RE

The following continuing calibrations had percent differences (%D) of >25% (20% for CCC compounds).

Calibration Date	Compound	%D
12/4/03	Indeno(1,2,3-cd)pyrene	27.08
12/4/03	Dibenz(a,h)anthracene	27.14
12/5/03	Di-n-octylphthalate	41.97
12/5/03	Benzo(k)fluoranthene	45.68
12/5/03	Indeno(1,2,3-cd)pyrene	38.95
12/5/03	Dibenz(a,h)anthracene	36.56

VII. Internal Standards

A. All internal standard area counts were within -50% to +100% of the associated calibration standard and retention times were ±30 seconds of the associated calibration standard retention time with the exceptions listed below.

B. Due to internal standard problems, the following detected and nondetected results are qualified as estimated (J-i/UJi).

• Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene,	094FTIR027-007*

Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene,	094FTIR027-008
Dibenz(a,h)anthracene, Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine,	094FTIR027-010
Benzo(a)anthracene, Bis(2-ethylhexyl)phthalate, and Chrysene in samples	094FTIR027-011

The internal standard area counts in the samples listed above were less than one half of the reference standard and are listed below.

Sample ID	Internal Standard	Area	QC Limits
094FTIR027-007*	Chrysene-d12	211273	228214-912858
094FTIR027-007*	Perylene-d12	53548	156403-625612
094FTIR027-008	Chrysene-d12	183887	228214-912858
094FTIR027-008	Perylene-d12	43403	156403-625612
094FTIR027-010	Chrysene-d12	209780	228214-912858
094FTIR027-010	Perylene-d12	55389	156403-625612
094FTIR027-011	Chrysene-d12	187060	228214-912858
094FTIR027-011	Perylene-d12	45098	156403-625612

Internal standard area counts of less than 50% of the standard area count may indicate a loss of instrument sensitivity.

VIII. Field Duplicate

A. The following RPDs were obtained for the field duplicate samples 094FTIR027-037 / 094FTIR027-038:

- 200% for 2-Methylnaphthalene

For soil samples, the field RPD guideline is ± 50%. The data are not qualified on the basis of field duplicate results.

IX. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All SVOA detected results reported below the RL.

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

Full Validation Criteria for Samples 094FTIR027-007*, 094FTIR027-007RE*, and 094FTIR027-031*

X. GC/MS Instrument Performance Checks

A. The ion abundance criteria were met for the decafluorotriphenylphosphine (DFTPP) GC/MS instrument performance checks. The samples were analyzed within 12 hours of the associated instrument performance check.

XI. Target Compound List (TCL) Identification

A. The relative retention times, mass spectra, and peak identifications of the samples were evaluated. Target compound identification was considered to be correct.

XII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

B. 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and 1,2-Dichlorobenzene were not reported by the laboratory. All target compounds must be reported as per the QAPP.

XIII. Tentatively Identified Compounds (TICs)

A. The TIC library searches were not performed for this SDG.

XIV. System Performance

A. The samples were evaluated for reconstructed ion chromatogram (RIC) baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

TPH GASOLINE (TPHG) ANALYSIS

I. Holding Times

A. The 14 day analysis holding time requirement for soils and preserved waters was met.

II. Surrogate Recovery

A. All surrogate recoveries (%R) were within the QC limits with the exceptions listed below.

B. Due to surrogate recovery problems, the following nondetected results are qualified as estimated (UJa).

- TPH as gasoline in sample 094FTIR027-036

The surrogates outside of QC limits are listed below.

Sample ID	Surrogate	% R	QC Limits
094FTIR027-036	4-Bromofluorobenzene	65	75-125%

Low recoveries indicate that detected and nondetected results may be biased low.

C. Due to surrogate recovery problems, the following detected results are qualified as estimated (J+a).

- TPH as gasoline in sample 094FTIR027-010

The surrogates outside of QC limits are listed below.

Sample ID	Surrogate	% R	QC Limits
094FTIR027-010	4-Bromofluorobenzene	148	75-125%

High percent recoveries indicate that detected results may be biased high.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was not performed for samples 094FTIR027-011, 094FTIR027-012, 094FTIR027-031*, 094FTIR027-032, 094FTIR027-033, 094FTIR027-034, 094FTIR027-035, 094FTIR027-036, 094FTIR027-037, 094FTIR027-038, 094FTIR027-039, and 094FTIR027-040. Although this is a protocol violation, the associated LCS/LCSD recoveries and relative percent differences (RPD) were within the QC limits and no data was qualified. The MS/MSD analysis was performed on a non-client sample for all other samples. The percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the parent sample is not in this SDG, no data was qualified.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

V. Blank Contamination

A. Due to method blank contamination, the following results are considered nondetected (UJb).

- TPH as gasoline in samples 094FTIR027-022 094FTIR027-024

The following compound was detected in the associated method blank at the concentration noted below.

Blank ID	Compound	Concentration
03G4929MB01	TPH as gasoline	0.02 mg/L

Detected results less than 5x the blank contamination were qualified.

B. No total petroleum hydrocarbons as gasoline contaminants were found in the trip blank sample 094FTIR027-021, the field blank sample 094FTIR027-022, and the equipment rinsate sample 094FTIR027-024.

VI. Calibrations

A. Initial calibration of compounds was performed as required by the method. The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

B. Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

VII. Field Duplicate

A. No detected results were reported for the field duplicate samples 094FTIR027-037 / 094FTIR027-038.

VIII. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All TPHG detected results reported below the Tetra Tech EMI required report limit (RL).

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

B The following results are qualified as estimated (H).

- All TPHG detected results flagged with a "H" by the laboratory.

Detected results flagged "H" by the laboratory indicate that a fuel pattern was present, however, it is in the lighter hydrocarbon end of the detected compounds range.

C The following results are qualified as estimated (Z)

- All TPHE detected results flagged with a "Z" by the laboratory

Detected results flagged Z by the laboratory indicate that the fuel pattern does not resemble TPH.

Full Validation Criteria for Samples 094FTIR027-007* and 094FTIR027-031*

IX. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

X. System Performance

A. The samples were evaluated for baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

XI. Compound Identification

A. Target compound identification was considered to be correct for samples 094FTIR027-007* and 094FTIR027-031*.

TPH EXTRACTABLE (TPHE) ANALYSIS

I. Holding Times

A The 14 day extraction and 40 day analysis holding time requirements for soils and preserved waters was met

II. Surrogate Recovery

A. All surrogate recoveries (%R) were within the QC limits.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A The MS/MSD analysis was not performed for the water samples in this SDG due to insufficient sample availability. Since these samples are field QC samples, no data was qualified. The MS/MSD analysis was performed on sample 094FTIR027-034 for all other samples. The percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the parent sample is not in this SDG, no data was qualified.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

V. Blank Contamination

A. No TPHE contaminants were found in the method blanks, the field blank sample 094FTIR027-022, and the equipment rinsate sample 094FTIR027-024.

VI. Calibrations

A Initial calibration of compounds was performed as required by the method. The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20 0%.

B. Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15 0% QC limits

VII. Field Duplicate

A. No detected results were reported for the field duplicate samples 094FTIR027-037 / 094FTIR027-038.

VIII. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All TPHE detected results reported below the Tetra Tech EMI required report limit (RL).

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

B The following results are qualified as estimated (M).

- All TPHE detected results flagged with a "M" by the laboratory

Detected results flagged M by the laboratory indicate that the standard fuel pattern resembles motor oil.

Full Validation Criteria for Samples 094FTIR027-007* and 094FTIR027-031*

IX. Compound Quantitation and Reported Detection Limits

A Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

X. System Performance

A. The samples were evaluated for baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

XI. Compound Identification

A. Target compound identification was considered to be correct for samples 094FTIR027-007* and 094FTIR027-031*.

NON-CLP INORGANIC AND PHYSICAL ANALYSIS

The following non-CLP inorganic and physical parameters were analyzed for: Heterotrophic Plate Count (HPC), Total Organic Carbon (TOC), and pH.

I. Holding Times

A. The 48 hour analysis holding time requirement for HPC and the 28 day analysis holding time requirement for TOC and pH were met.

II. Calibrations

A. All instruments were calibrated daily and the proper number of standards were used as required by the methods. All Initial and Continuing calibration verifications were performed at the proper frequency and percent recoveries (%R) were within the 90-110% QC limits and all initial calibration correlation coefficients were ≥ to 0.995.

III. Blank Contamination

A. No contaminant concentrations were detected in the method blanks. No samples were qualified based on the contaminant concentrations found in the field blank sample 094FTIR027-022 and the equipment rinsate sample 094FTIR027-024.

IV. Matrix Spike (MS)

A. The MS/MSD analyses were performed on sample 09FTIR027-006 and a non-client sample for all analyses. Percent recoveries (%R) were within the QC limits and relative percent differences (RPD) were within the ≤20% QC limits for inorganic analyses and the ≤10% QC limits for physical analysis.

V. Matrix Duplicate (DUP)

A The DUP analysis was not performed for HPC for this SDG. Although this is a protocol violation, the associated MS/MSD relative percent differences (RPD) were within the QC limits and no data was qualified. The MS/MSD analyses were performed on a non-client sample for all other analyses.

VI. Laboratory Control Sample (LCS)

A. The LCS QC samples were analyzed as required under the TTEMI SOW. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

VII. Field Duplicate

A. No RPDs above 50% were obtained for the field duplicate samples 094FTIR027-037 / 094FTIR027-038.

VIII. Other Qualifications

A. No results were reported below the RL.

Full Validation Criteria for Samples 094FTIR027-007* and 094FTIR027-031*

IX. Analyte Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated.

The reported detection limits for sample 094FTIR027-012 were not consistent with Tetra Tech EMI's required report limits. The RL was reported at 100 mg/Kg for TOC. The RL should be ≤ the Tetra Tech EMI RL which is 1.0 mg/Kg for TOC.

The reported sample results reflect any dilutions, weights, volumes, and percent moisture.

OVERALL ASSESSMENT OF DATA

I. Method Compliance and Additional Comments

A. All analyses were conducted within all specifications of the requested methods with the exception listed below

- For the volatile analysis, Methyl-tert-butyl ether was not reported by the laboratory. All target compounds must be reported as per the QAPP.

- For the semivolatile analysis, the MS/MSD analysis was not performed for the water samples in this SDG. Since these are field QC samples, no data was qualified.

- For the semivolatile analysis, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and 1,2-Dichlorobenzene were not reported by the laboratory. All target compounds must be reported as per the QAPP.

- For the TPHG analysis, the MS/MSD analysis was not performed for samples 094FTIR027-011, 094FTIR027-012, 094FTIR027-031*, 094FTIR027-032, 094FTIR027-033, 094FTIR027-034, 094FTIR027-035, 094FTIR027-036, 094FTIR027-037, 094FTIR027-038, 094FTIR027-039, and 094FTIR027-040. Although this is a protocol violation, the associated LCS/LCSD recoveries and relative percent differences (RPD) were within the QC limits and no data was qualified.

- For the TPHE analysis, the MS/MSD analysis was not performed for the water samples in this SDG due to insufficient sample availability. Since these samples are field QC samples, no data was qualified.

- For the non-CLP inorganic and physical analysis, the DUP analysis was not performed for HPC for this SDG. Although this is a protocol violation, the associated MS/MSD relative percent differences (RPD) were within the QC limits and no data was qualified.

- For the non-CLP inorganic and physical analysis, the reported detection limits for sample 094FTIR027-012 were not consistent with Tetra Tech EMI's required report limits. The RL was reported at 100 mg/Kg for TOC. The RL should be ≤ the Tetra Tech EMI RL which is 1.0 mg/Kg for TOC.

II. Usability

<u>SW 846 Volatile Organic Analysis</u>

A. Due to severe problems in the instrument calibration in the volatile analysis, selected sample results were rejected. The findings were as follows:

- Due to initial calibration RRF problems, Acetone, Acrylonitrile, and 2-Butanone nondetected results were rejected in samples 094FTIR027-021, 094FTIR027-022, and 094FTIR027-024.

- Due to continuing calibration RRF problems, Acetone, Acrylonitrile, and 2-Butanone nondetected results were rejected in samples 094FTIR027-021, 094FTIR027-022, and 094FTIR027-024.

B. Due to instrument calibration and common laboratory contamination problems in the volatile analysis, several samples were qualified as estimated. The findings were as follows:

- Due to initial calibration %RSD problems, Acetone nondetected results were qualified as estimated in three samples.

- Due to continuing calibration %D problems, Iodomethane nondetected results were qualified as estimated in two samples, Dichlorodifluoromethane nondetected results were qualified as estimated in six samples, Acetone nondetected results were qualified as estimated in three samples, and Acetone detected results were qualified as estimated in six samples.

- Due to common laboratory contamination problems, Methylene chloride and Acetone were qualified nondetect in eleven samples and 2-Butanone was qualified nondetect in one sample.

- All detected results reported below the RL were qualified as estimated.

C. No samples were reextracted or reanalyzed for volatile analysis in this SDG.

SW 846 Semivolatile Organic Analysis

A. Due to severe problems in the instrument calibration in the semivolatile analysis, selected sample results were rejected. The findings were as follows:

- Due to continuing calibration %D problems, Benzo(g,h,i)perylene nondetected results were rejected in samples 094FTIR027-007RE*, 094FTIR027-008RE, 094FTIR027-010RE, and 094FTIR027-011RE.

B. Due to common laboratory contamination, instrument calibration, and internal standard problems in the semivolatile analysis, several samples were qualified as estimated. The findings were as follows:

- Due to common laboratory contamination problems, Bis(2-ethylhexyl)phthalate was qualified nondetect in six samples.

- Due to continuing calibration %D problems, Indeno(1,2,3-cd)pyrene and Dibenz(a,h)anthracene nondetected results were qualified as estimated in eight samples and Di-n-octylphthalate and Benzo(k)fluoranthene nondetected results were qualified as estimated in eight samples

- Due to internal standard area count problems, Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene, and Dibenz(a,h)anthracene, Dibenz(a,h)anthracene, Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl)phthalate, and Chrysene results were qualified as estimated in four samples.

- All detected results reported below the RL were qualified as estimated.

C. Samples 094FTIR027-007*, 094FTIR027-008, 094FTIR027-010, and 094FTIR027-011 were reanalyzed due to low internal standard area counts. For samples 094FTIR027-007*, 094FTIR027-008, 094FTIR027-010, and 094FTIR027-011, since the reanalyzed samples, 094FTIR027-007RE*, 094FTIR027-008RE, 094FTIR027-010RE, and 094FTIR027-011RE, had internal standard area counts within the QC limits, the reanalyzed results should be considered the most usable.

TPH Gasoline Analysis

A. No results for TPH gasoline analysis were rejected in this SDG.

B. Due to method blank contamination and surrogate problems in the TPH gasoline analysis, several samples were qualified as estimated. The findings were as follows:

- Due to method blank contamination problems, TPH gasoline was qualified nondetect in two samples.
- Due to surrogate recovery problems, TPH gasoline nondetected results were qualified as estimated in one sample and TPH gasoline detected results were qualified as estimated in one sample.
- All detected results reported below the RL were qualified as estimated.
- All detected results flagged with a "H" or "Z" by the laboratory were qualified as estimated.

C. No samples were reextracted or reanalyzed for TPH gasoline analysis in this SDG.

TPH Extractable Analysis

A. No results for TPH extractable analysis were rejected in this SDG.

B. Due to problems in the TPH extractable analysis, several samples were qualified as estimated. The findings were as follows:

- All detected results reported below the RL were qualified as estimated
- All detected results flagged with a "M" by the laboratory were qualified as estimated.

C. No samples were reextracted or reanalyzed for TPH extractable analysis in this SDG.

Non-CLP Inorganic and Physical Analysis

A. No results for non-CLP inorganic and physical analysis were rejected in this SDG.

B. No samples were reextracted or reanalyzed for non-CLP inorganic and physical analysis in this SDG.

III. The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Sample results that were found to be rejected (R) are unusable for all purposes. Based upon the cursory and full data validation, all other results are considered valid and usable for all purposes.

DATA VALIDATION REPORT ADDENDUM
MODIFICATION TO THE REPORT
ICP02

Prepared by:	John Swanson, Tetra Tech EM, Inc.
Date:	2/23/04
Site Name/Job Number:	Ft. Irwin/G1058 2 4 01.094.02
Laboratory:	Applied Physics and Chemistry Laboratory (APCL), Chino, California
Data Validation Firm:	Laboratory Data Consultants

Volatile Organics Analysis

1. Several results were qualified as "UJ" due to method blank or common laboratory contamination, or due to field blank contamination. According to the qualifier definitions established in the USACE Data Quality Program Management Specifications, these results should be qualified "U." These changes were made to the database.

Semivolatile Organics Analysis

1. Several results were qualified as "UJ" due to method blank or common laboratory contamination. According to the qualifier definitions established in the USACE Data Quality Program Management Specifications, these results should be qualified "U." These changes were made to the database.

TPH Gasoline Analysis

1. Several results included the qualifier comment "h" to indicate that TPH patterns were in the heavier portion of the gasoline range. These comment codes are not used for USACE projects, and were removed from the database.

TPH Extractable Analysis

1. Several results included the qualifier comment "m" to indicate that TPH patterns were in the motor oil range. These comment codes are not used for USACE projects, and were removed from the database.

There were no other modifications to the validation report.

APPENDIX D

SESOIL FATE AND TRANSPORT MODEL ASSUMPTIONS AND RESULTS FOR FTIR-27

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ACRONYMS AND ABBREVIATIONS

µg/L	Microgram per liter
bgs	Below ground surface
COPC	Chemical of potential concern
DTSC	California Department of Toxic Substances Control
FTIR-27	NTC Fort Irwin Site 27
GSC	General Sciences Corporation
mg/kg	Milligram per kilogram
msl	Mean sea level
RI	Remedial investigation
SESOIL	Seasonal Soil Compartment Model
SVOC	Semivolatile organic compound
TPH	Total petroleum hydrocarbon
USGS	U.S. Geological Survey
VOC	Volatile organic compound

1.0 INTRODUCTION

This document describes the fate and transport modeling conducted in support of the remedial investigation (RI) conducted at National Training Center (NTC) Fort Irwin Site 27 (FTIR-27), Fort Irwin, California.

The SESOIL fate and transport model was used to evaluate the potential for petroleum hydrocarbons and other compounds identified in soil beneath the former Tank 72 to migrate vertically through the vadose zone. The migration potential of these chemicals is dependent upon their chemical and physical characteristics as well as the soil characteristics and hydrogeology in the vadose zone below the former Tank 72. The objective of the fate and transport modeling was to estimate how deep the chemicals can migrate and whether they can adversely impact the quality of groundwater beneath the site.

This document is presented in five sections with Section 1.0 being this introduction. Section 2.0 describes the Seasonal Soil Compartment (SESOIL) model. Section 3.0 discusses model setup, assumptions, and modeling runs. Section 4.0 presents the modeling results, and Section 5.0 provides the modeling conclusions. Tables and figures are presented at the end of this report. Attachment D-1 presents additional information on the SESOIL model and the processes that this model simulates.

2.0 SESOIL MODEL DESCRIPTION

SESOIL is a flow and transport model developed for evaluating the vertical movement of contaminants through the vadose zone. Arthur D. Little, Inc., Cambridge, Massachusetts developed the SESOIL model for U.S. Environmental Protection Agency (EPA) Office of Toxic Substances (Bonazountas and Wagner 1984). In 1987, EPA's Office of Pesticides and Toxic Substances prepared a users guide for SESOIL, "User's Guide to SESOIL Execution in Graphic Exposure Modeling System" (EPA 1987a). Additional verification of the model was performed by Oak Ridge National Laboratory in 1989 (Hetrick and others 1989). SESOIL modeling for this project was performed using the software developed by General Sciences Corporation (GSC) called "RISKPRO's SESOIL for Windows" (GSC 1995).

SESOIL is designed for hydrologic, sediment, and contaminant fate and transport simulations. The model estimates the rate of vertical solute transport from the land surface to the water table and represents transport of one chemical component through three phases (aqueous, gaseous, and adsorbed).

Up to four layers can be simulated by the model, and each layer can be subdivided into 10 compartments or sublayers with uniform soil characteristics. SESOIL's hydrological submodel considers the soil column as one homogeneous compartment. Therefore, only one set of soil-water content, porosity and soil pore disconnectedness parameters is used to describe the entire vadose zone. SESOIL does not address the soil heterogeneities and spatial variability of water flow in the soil column. The model considers the soil moisture content to be uniform, at its long-term average for the entire soil column.

SESOIL's contaminant fate submodel considers equilibrium partitioning to soil, water, and air phases (sorption, dissolution, and diffusion), volatilization from the surface layer, and first-order chemical biodegradation. A more detailed description of the SESOIL model is presented in Attachment D-1.

3.0 SESOIL MODEL APPLICATION

This section discusses (1) the model setup and assumptions, (2) how the model was calibrated, and (3) how the sensitivity analysis was conducted.

3.1 MODEL SETUP AND ASSUMPTIONS

The SESOIL model used conservative assumptions of flow and attenuation processes to result in faster contaminant transport through the vadose zone and higher concentrations predicted in pore water beneath the source. The SESOIL model setup, assumptions, and parameters are discussed in greater detail below.

3.1.1 Source Area

Based on review of post-removal site investigation data, the source area in plan view is approximately 50 by 100 square feet. Because Tank 72 containing the Bunker C fuel oil was

removed and petroleum product-contaminated soil was excavated in 1994, no additional releases of petroleum hydrocarbons have occurred at the site. The remaining soil contamination is assumed to act as a continuous long-term source.

3.1.2 Model Layers

The site conceptual model shown on Figure 5 of the RI report was presented in the SESOIL model with three layers of varying thickness depicted on Figure D-1. The layers were defined based on the lithology and concentrations of total petroleum hydrocarbon (TPH) fractions or other contaminants detected in soil.

The depth of main residual TPH contamination was set at 40 feet bgs based on the zone of contamination defined by previous investigations and the current RI investigation. As depicted on Figure D-1, the layers are as follows:

- Layer 1 – 0 to 10 feet bgs; lean clay; clean fill material used following the excavation of soil surrounding the former Tank 72.
- Layer 2 – 10 to 40 feet bgs; sand and silty sand; TPH contamination resides in this zone.
- Layer 3 – 40 to 220 feet bgs; sand and silty sand; zone extends to water table and initially does not contain any TPH contamination, therefore, the concentrations for all compounds were set to non-detect as an initial condition.

Each of layers 2 and 3 were also subdivided in SESOIL into 10 sublayers of equal thickness to allow for greater detail in predicted contaminant concentration distribution over depth.

The depth to groundwater at FTIR-27 of approximately 220 feet below ground surface (bgs) was estimated using the data presented in the report that describes groundwater modeling for the Irwin Basin aquifer system (Densmore 2003). The elevation of groundwater in 1994 at a U.S. Geological Survey (USGS monitoring well No. 14N/3E-32F3), located approximately 700 feet north of the site, was 2,276 feet and it increased to 2,288 feet above mean sea level (msl) in 1999, because the recharge had exceeded pumpage in the Irwin Basin since 1992. Assuming that groundwater levels continued to recover at the same rate, the groundwater elevation at present

time was estimated to be at 2,300 feet above msl in this monitoring well resulting in an assumed depth to groundwater of 220 feet bgs. In calculating the depth to groundwater under FTIR-27, it was assumed that the ground surface elevation at the site is the same as at the monitoring well.

3.1.3 Modeled Compounds and Layer-Specific Soil Concentrations

The TPH fractions and compounds that were selected for modeling based on frequency and magnitude of detections in soil at FTIR-27 are listed below.

- TPH fractions:
  - C9 to C10 and C11 to C22 aromatics
  - C5 to C8, C9 to C12, C9 to C18, C19 to C36 aliphatics
- Volatile organic compounds (VOC): 1,2-dichlorobenzene, 1,4-dichlorobenzene, ethylbenzene, toluene, total xylenes
- Semivolatile organic compounds: 2-methylnaphthalene, acenaphthene, acetophenone, benzo(a)anthracene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene

As a conservative assumption, the maximum concentration for each chemical of potential concern (COPC) detected within a layer was assigned to the entire thickness of that layer as an initial condition. Although the upper 10-foot thick layer under the site is expected to be clean, low-level TPH concentrations were assigned to this layer in the SESOIL model based on the available data from 2003 sampling in borings 27-2003-B01 (B01), 27-2003-B02 (B02), and 27-2003-B03 (B03). For the 30-foot thick layer with main TPH contamination, the concentrations for VOCs, SVOCs, and TPH in soil were assigned levels presented in Table D-1. For example, this table shows the initial soil concentration for (1) total xylenes detected at 7.1 milligram per kilogram (mg/kg), the highest concentration among VOCs; (2) 2-methylnaphthalene detected at 130 mg/kg, the highest concentration among SVOCs; and (3) the maximum total TPH concentration of 25,000 mg/kg.

The total TPH concentrations were fractionated. TPH fate and transport properties (see Table D-2) were assigned in the model conservatively, using properties of lower molecular weight fractions that are the most soluble and mobile in the vadose zone. TPH-gasoline was

represented entirely as C5 to C8 aliphatics. TPH-diesel was represented as consisting entirely of C9 to C10 aromatics (30 percent) and C9-C12 aliphatics (70 percent). TPH-motor oil was represented as consisting entirely of C11 to C22 aromatics (30 percent) and C9 to C18 aliphatics (70 percent).

The maximum total TPH concentration of 25,000 mg/kg detected in the main soil contamination zone (see Table 3 in the RI report) consists of 15,000 mg/kg of TPH-diesel and approximately 10,000 mg/kg of TPH-motor oil. The SESOIL model used initial concentrations of 10,500 mg/kg for TPH-diesel aliphatics and 4,500 mg/kg for TPH-diesel aromatics. TPH-motor oil aliphatics and aromatics were assigned concentrations of 7,000 and 3,000 mg/kg, respectively. For C5-C8 aliphatics, which constitute less than 2 percent of the total TPH actual detected concentration of 40.3 mg/kg was used (see Table 4 in the RI report). Note that fraction of C19 to C36 aliphatics is practically insoluble and immobile (see Table D-2), but was combined in the model with the fraction of C9-C18 aliphatics.

Based on available data, no significant contamination was considered to be present below 40 feet bgs; therefore, zero concentrations of TPH fractions and related compounds (i.e. VOCs, SVOCs) were assigned to this third layer of the model (Table D-1) to allow for better numerical resolution.

3.1.4 Model Parameters

Input parameters used in SESOIL for fate and transport modeling of individual compounds are summarized in Tables D-1 and D-2. Bulk density, intrinsic permeability, and total organic carbon content of soils for model runs were based on an average of values measured in field samples. During site investigation activities, samples collected from a depth of 66.0 to 66.5 feet bgs at boring B01 and from a depth of 61 to 61.5 feet bgs at boring B02 were analyzed for soil physical parameters. Effective porosity was based on total porosity values measured in field samples and was estimated for the prevalent soil type in the vadose zone. As a conservative assumption, these physical parameters were assumed to be constant throughout the entire vadose zone in the model runs. This assumption is a conservative one because cemented zones indicative of low permeability were encountered in B01 and B02 during drilling activities.

3.2 MODEL CALIBRATION

Prior to running the model for contaminants in the vadose zone, the model was calibrated to represent the field-measured moisture in soil beneath the site. In this step, the hydrological submodel of the SESOIL model used the climatic data from the meteorological station nearest to FTIR-27. The data represents monthly averages of 30-year series for climatic parameters, such as total precipitation, mean storm duration, and number of storm events. In addition, monthly averages for mean air temperature, mean cloud cover, mean relative humidity, and short wave albedo are used to calculate evapotranspiration. In SESOIL, these parameters are input into statistically-based water balance equations (Eagleson 1978), which determine time-varying soil moisture content in the soil profile. The field-measured, volumetric moisture content was used as a calibration target to calibrate the hydrological cycle. In the next step, the pore disconnectedness index was adjusted to minimize the difference between the field soil moisture data and the model result.

The field data on soil moisture with respect to depth measured in borings B01, B02, and B03 are presented in Figures D-2, D-3, and D-4, respectively. The calibration target for soil moisture was selected at approximately 10 percent. The 10 percent soil moisture by volume was used throughout the whole thickness of the vadose zone which results in higher predicted moisture flux.

In order to minimize the difference between the field soil moisture data and the model simulated value, the pore disconnectedness index was altered from its initially assumed value of 4 (for sand) to 7.5 (for clay). The pore disconnectedness index relates unsaturated hydraulic conductivity K(S) to the saturated hydraulic conductivity K and the soil moisture content.

All other parameters were kept constant (Table D-1). These parameters included intrinsic permeability and soil bulk density, which are based on field data, and effective porosity, which was estimated for the prevalent soil type in the vadose zone. The model with the calibrated hydrologic cycle was considered as a base case.

3.3 SENSITIVITY ANALYSIS

The objective of the sensitivity analysis was to determine which parameters had the most effect on model predictions. The SESOIL sensitivity analysis was conducted by varying input parameters within plausible ranges from the base case that corresponded to field conditions. The parameters evaluated are listed in Table D-3. As one of the most mobile chemicals detected in the site soils, total xylenes were selected for the evaluation of model sensitivity to input parameter changes. Acetophenone, which is more mobile and soluble than xylene, also was detected in site soils. However, this semivolatile compound was detected at much lower concentrations and also is not representative of petroleum hydrocarbons.

3.4 MODEL RUNS

The model with the calibrated hydrologic cycle was run for each individual COPC or TPH fraction to predict to what depth and at what concentration the contaminants would reach in 300 years from now. Because chemicals in soil at FTIR-27 migrate very slowly, model runs aimed at determining the contaminant front (or plume leading edge) in the vadose zone beneath the main contamination zone after a long time period (i.e. 300 years). This time period was considered to be sufficiently long enough to achieve the modeling objectives.

In theory, a nonreactive dissolved COPC originating in any unsaturated soil layer will travel to another soil layer or the groundwater at the same speed as the moisture mass originating in the same layer. The movement of a reactive contaminant, however, will be retarded in relation to the movement of the bulk moisture mass due to vapor phase partitioning and the adsorption of the contaminant onto the soil particles (Bonazountas and others 1997). All the COPCs modeled in soil at FTIR-27 are reactive. The depth of the leading edge of the plume for each COPC was calculated as described below.

After the initial contaminant concentration is entered in soil layers/sublayers, the SESOIL model assumes that the depth of contaminant front begins at the middle of the deepest layer that has a measurable concentration. Subsequently, the COPC is not allowed to enter a layer/sublayer until the depth of the contaminant front has reached the top of that layer/sublayer. As dictated by the

contaminant fate and transport properties and initial soil concentrations, the SESOIL-calculated depths of contaminant fronts are different for different chemicals.

4.0 SESOIL MODEL RESULTS

The results of SESOIL modeling are summarized in Table D-4. Figures D-5 through D-13 present the SESOIL-predicted contaminant depths for a 300-year period. None of the chemicals or TPH fractions were predicted to arrive to the water table in 300 years from the present time (Table D-4).

The sensitivity analysis results are summarized in Table D-3. This table lists the results in the form of time to predicted peak and maximum dissolved total xylenes concentration at approximately 60 feet bgs (or 20 feet below the main soil contamination zone). This depth was selected based on it being present below the main zone of contamination and above the water table as well as allowing the model sufficient time to predict peak concentrations for all COPCs. The parameter values of the calibrated model were increased or decreased by 17 to 50 percent as shown in the fourth column (Table D-3). The predicted changes in the peak time and dissolved total xylenes concentration are listed relative to the base case in the last two columns of this table.

In terms of leachate arrival times, model outcome is most sensitive to the soil organic carbon content and pore disconnectedness index. The predicted peak concentration at 60 feet bgs is mostly influenced by the soil pore disconnectedness index, effective porosity, and organic carbon content. The dramatic effect that the high pore disconnectedness index (representative of clays) appears to have on the predicted peak concentration is probably an artifact of SESOIL that may not work properly if soil has low permeability and high disconnectedness index. The prominent increase of the predicted peak concentration that resulted from the decrease in effective porosity may be attributed to the lower volatilization of the xylenes because of less air-filled voids.

5.0 CONCLUSIONS

The SESOIL fate and transport model was used to evaluate the potential for petroleum hydrocarbons and other compounds identified in soil beneath the former Tank 72 to migrate vertically through the vadose zone. None of the chemicals or TPH fractions were predicted to arrive to the water table in 300 years from the present time. The modeling results suggest that the remaining soil contamination under the former Tank 72 poses no threat to groundwater quality and, therefore, no remedial action is required. Due to the presence of the asphalt concrete parking lot constructed at FTIR-27, the rate of infiltration will be significantly diminished further impeding the vertical migration of COPCs toward the water table

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FIGURES

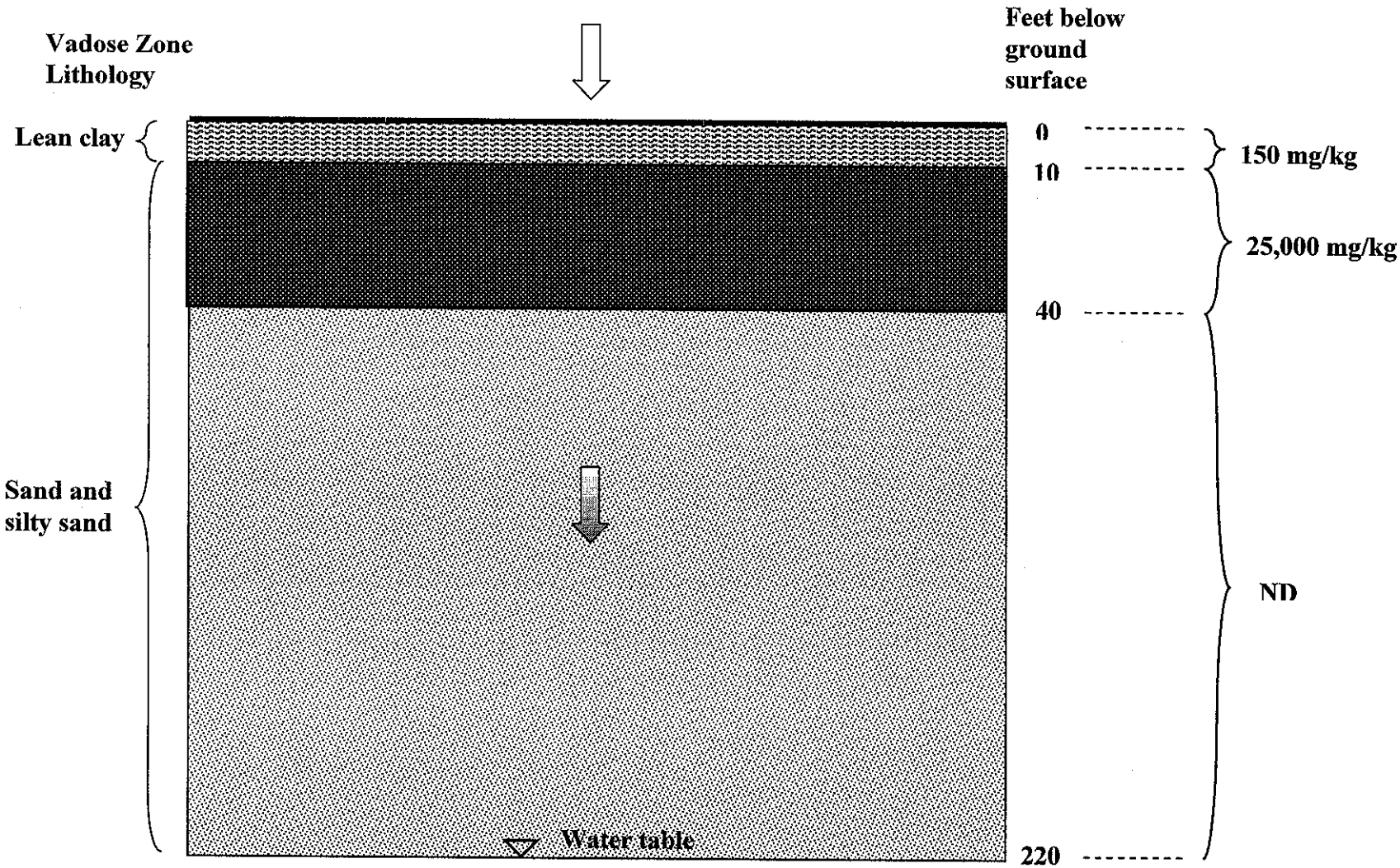
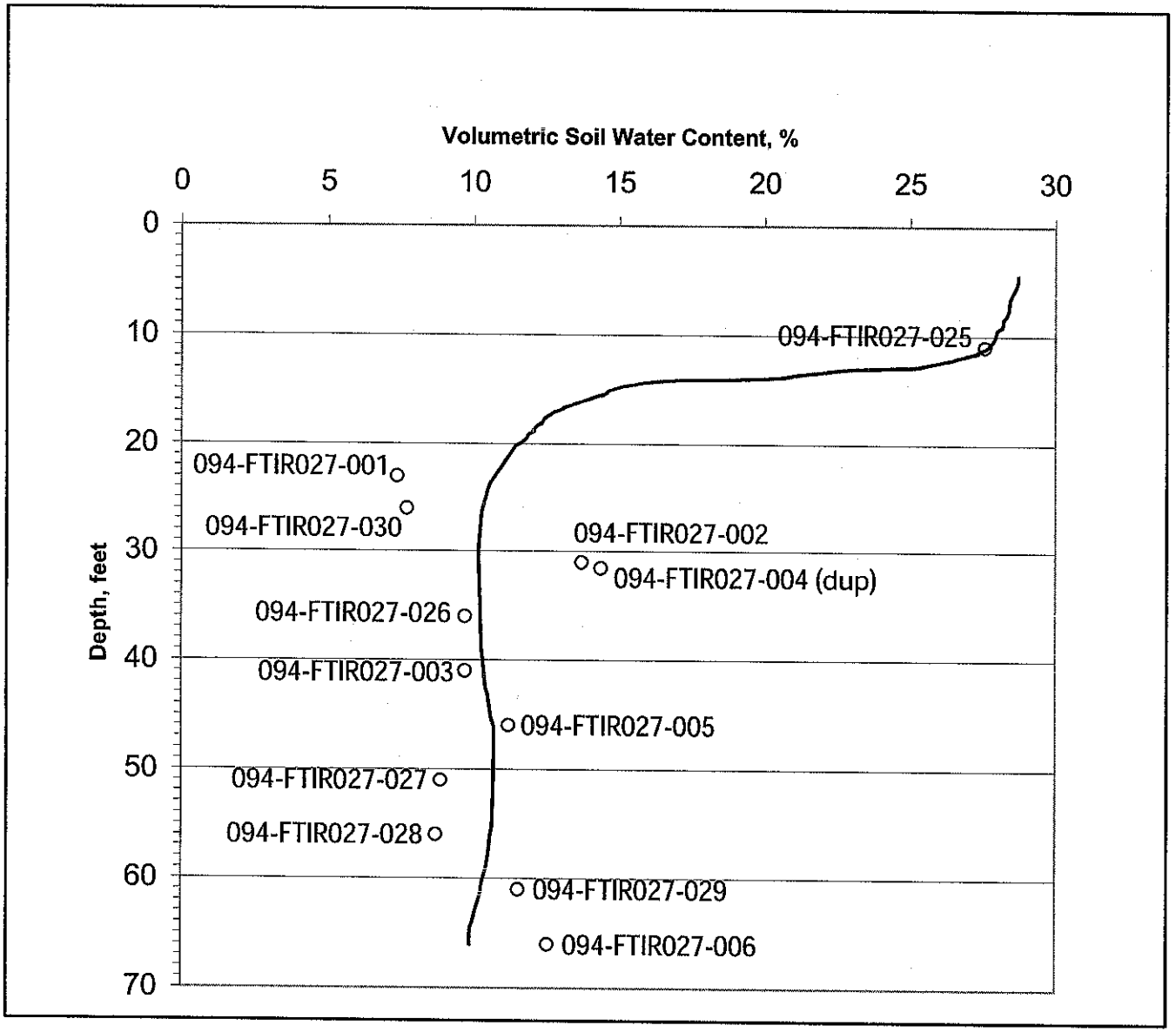


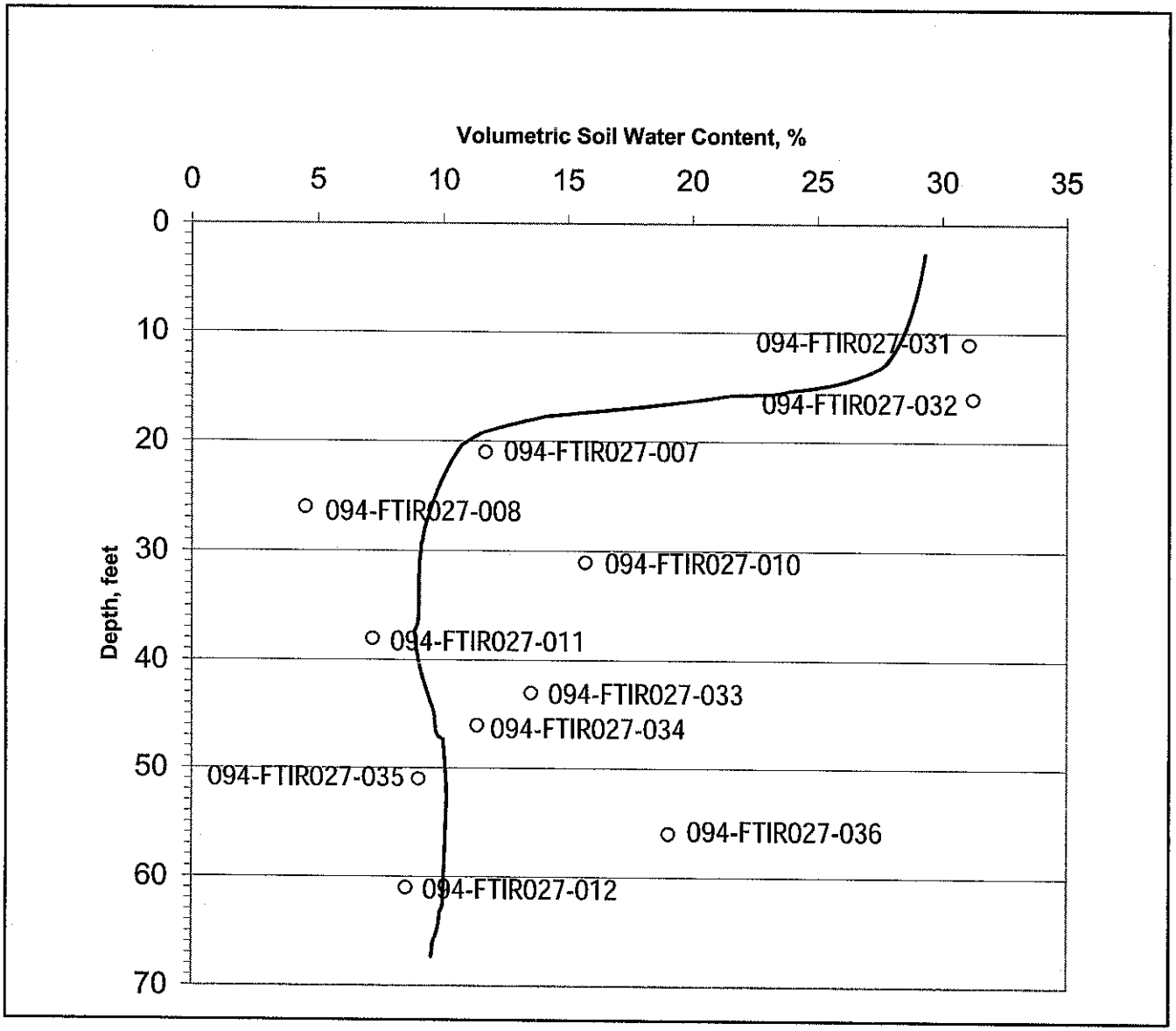
FIGURE D-1
SESOIL MODEL LAYERS AND MAXIMUM TOTAL TPH CONCENTRATIONS USED TO DESCRIBE CONTAMINANT SOURCE

FIGURE D-2 SOIL MOISTURE PROFILE AT 27-2003-B01



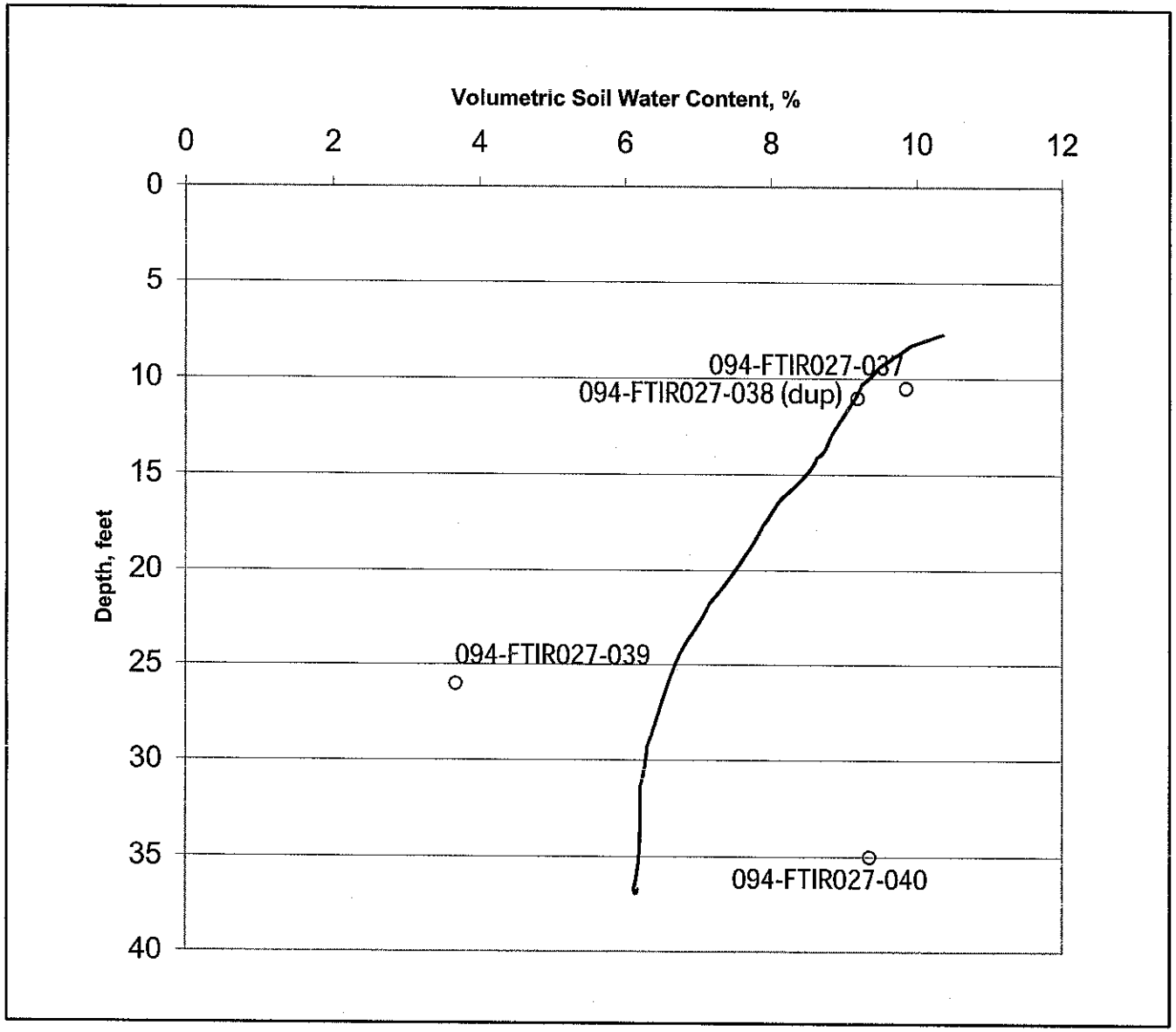
SAMPLE ID	PT ID	DEPTH
094-FTIR027-025	27-2003-B01	11
094-FTIR027-001	27-2003-B01	23
094-FTIR027-030	27-2003-B01	26
094-FTIR027-002	27-2003-B01	31
094-FTIR027-004 (dup)	27-2003-B01	31.5
094-FTIR027-026	27-2003-B01	36
094-FTIR027-003	27-2003-B01	41
094-FTIR027-005	27-2003-B01	46
094-FTIR027-027	27-2003-B01	51
094-FTIR027-028	27-2003-B01	56
094-FTIR027-029	27-2003-B01	61
094-FTIR027-006	27-2003-B01	66

FIGURE D-3 SOIL MOISTURE PROFILE AT 27-2003-B02



SAMPLE ID	PT ID	DEPTH
094-FTIR027-031	27-2003-B02	11
094-FTIR027-032	27-2003-B02	16
094-FTIR027-007	27-2003-B02	21
094-FTIR027-008	27-2003-B02	26
094-FTIR027-010	27-2003-B02	31
094-FTIR027-011	27-2003-B02	38
094-FTIR027-033	27-2003-B02	43
094-FTIR027-034	27-2003-B02	46
094-FTIR027-035	27-2003-B02	51
094-FTIR027-036	27-2003-B02	56
094-FTIR027-012	27-2003-B02	61

FIGURE D-4 SOIL MOISTURE PROFILE AT 27-2003-B03



SAMPLE ID	PT ID	DEPTH
094FTIR027-037	27-2003-B03	10.5
094-FTIR027-038 (dup)	27-2003-B03	11
094-FTIR027-039	27-2003-B03	26
094-FTIR027-040	27-2003-B03	35

FIGURE D-5
DEPTH OF 1,2-DICHLOROBENZENE AND 1,4-DICHLOROBENZENE PLUME LEADING EDGE OVER TIME

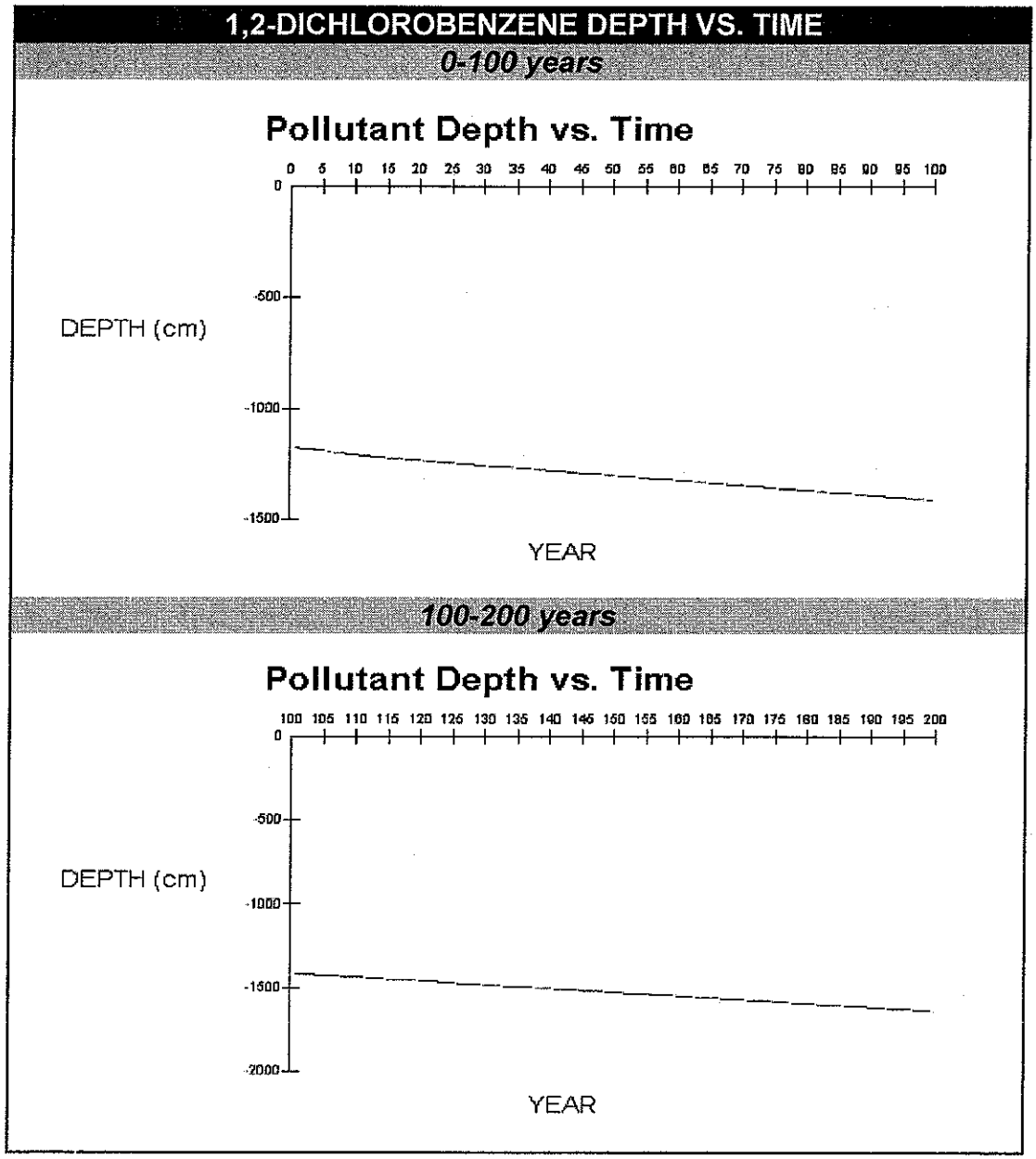


FIGURE D-5
DEPTH OF 1,2-DICHLOROBENZENE AND 1,4-DICHLOROBENZENE PLUME LEADING EDGE OVER TIME

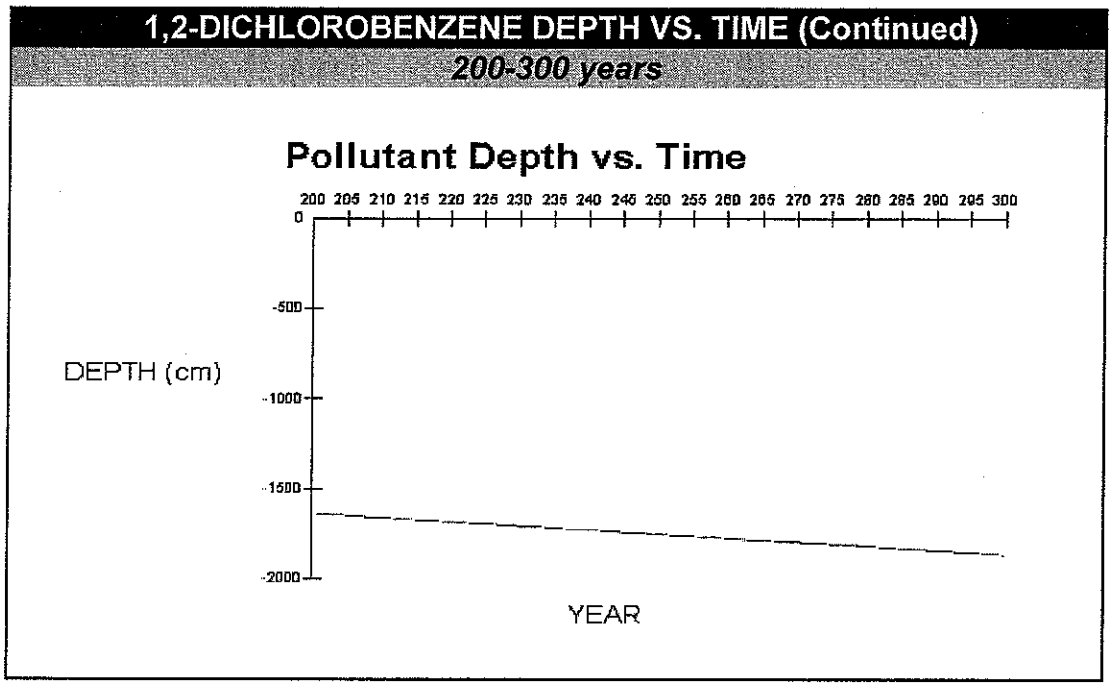


FIGURE D-5
DEPTH OF 1,2-DICHLOROBENZENE AND 1,4-DICHLOROBENZENE PLUME LEADING EDGE OVER TIME

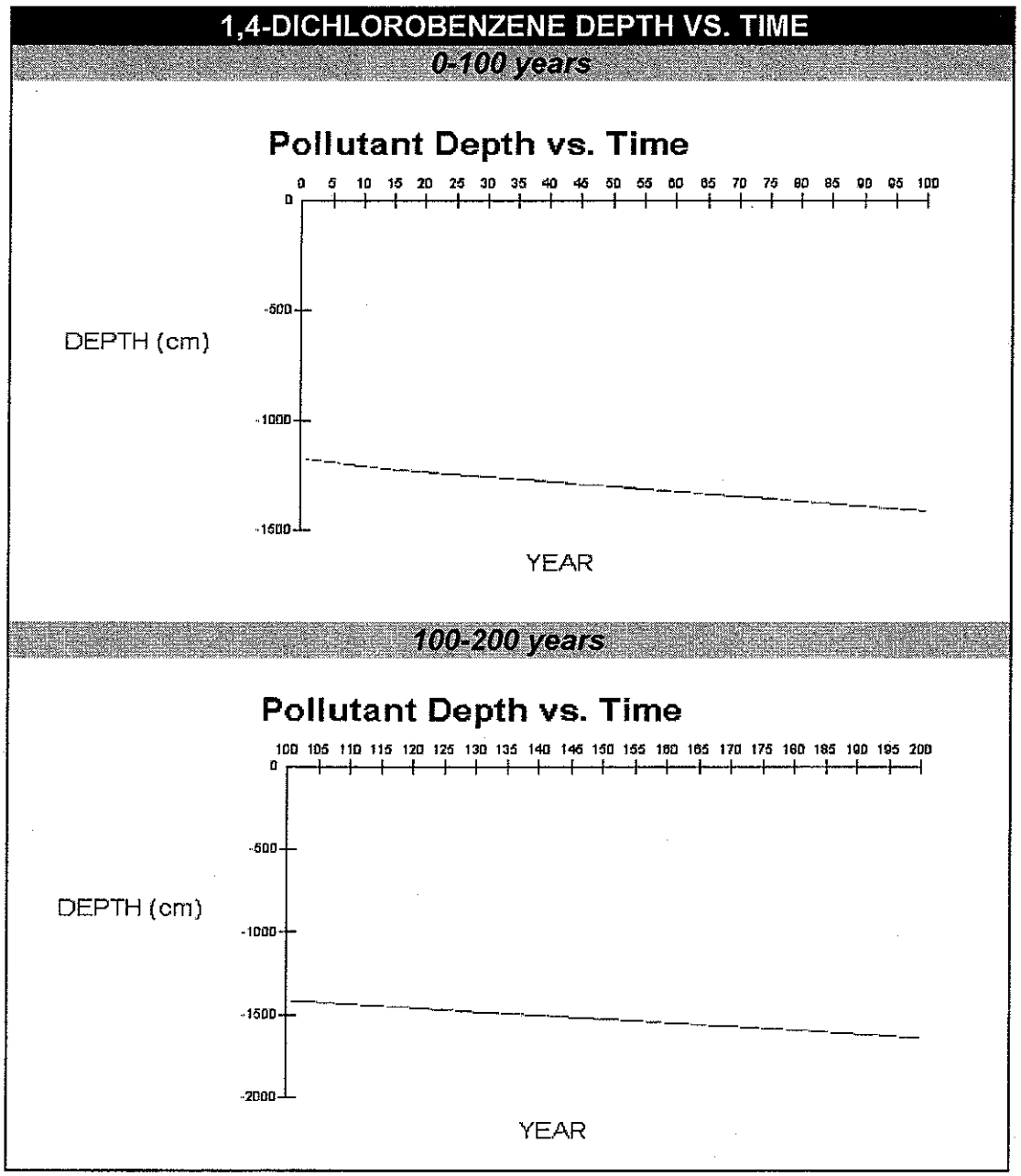


FIGURE D-5
DEPTH OF 1,2-DICHLOROBENZENE AND 1,4-DICHLOROBENZENE PLUME LEADING EDGE OVER TIME

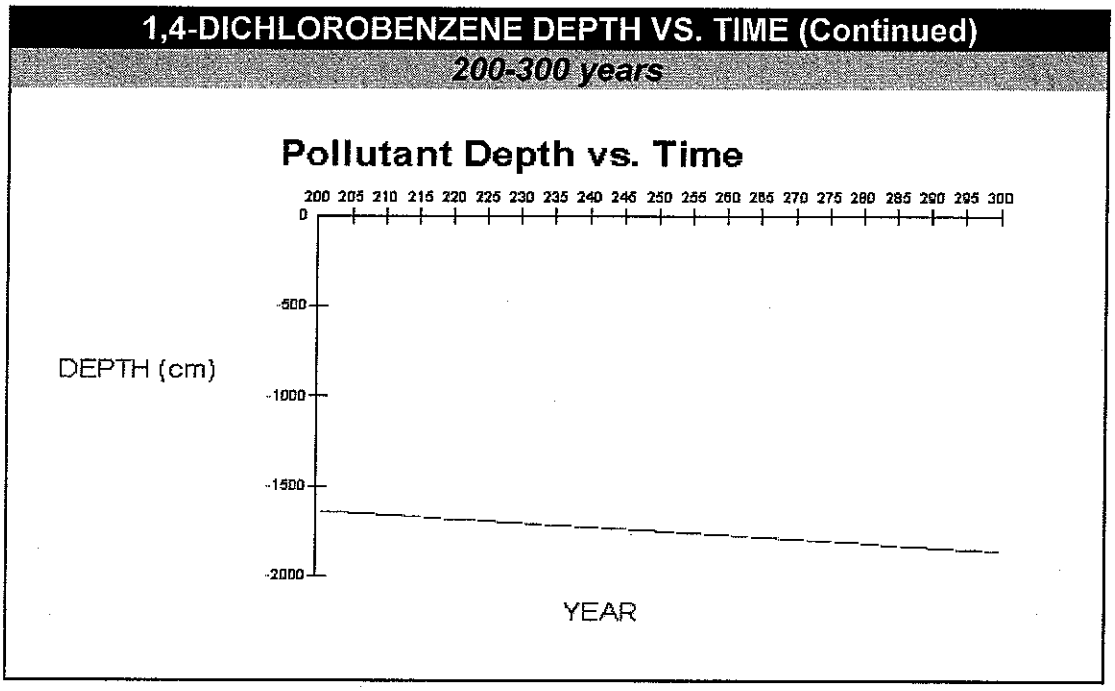


FIGURE D-6
DEPTH OF ETHYLBENZENE, TOLUENE, AND XYLENES (TOTAL)
PLUME LEADING EDGE OVER TIME

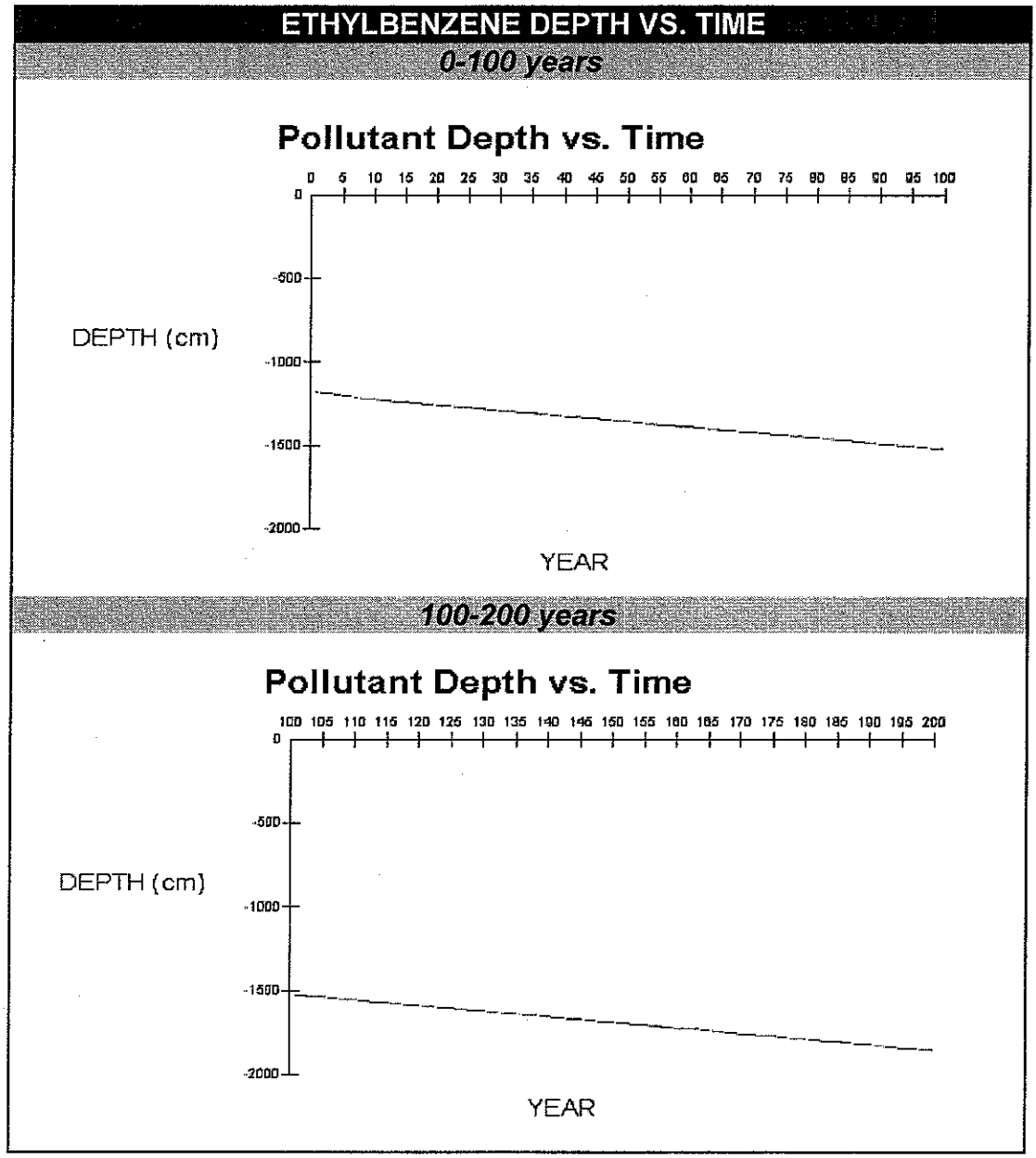


FIGURE D-6
DEPTH OF ETHYLBENZENE, TOLUENE, AND XYLENES (TOTAL)
PLUME LEADING EDGE OVER TIME

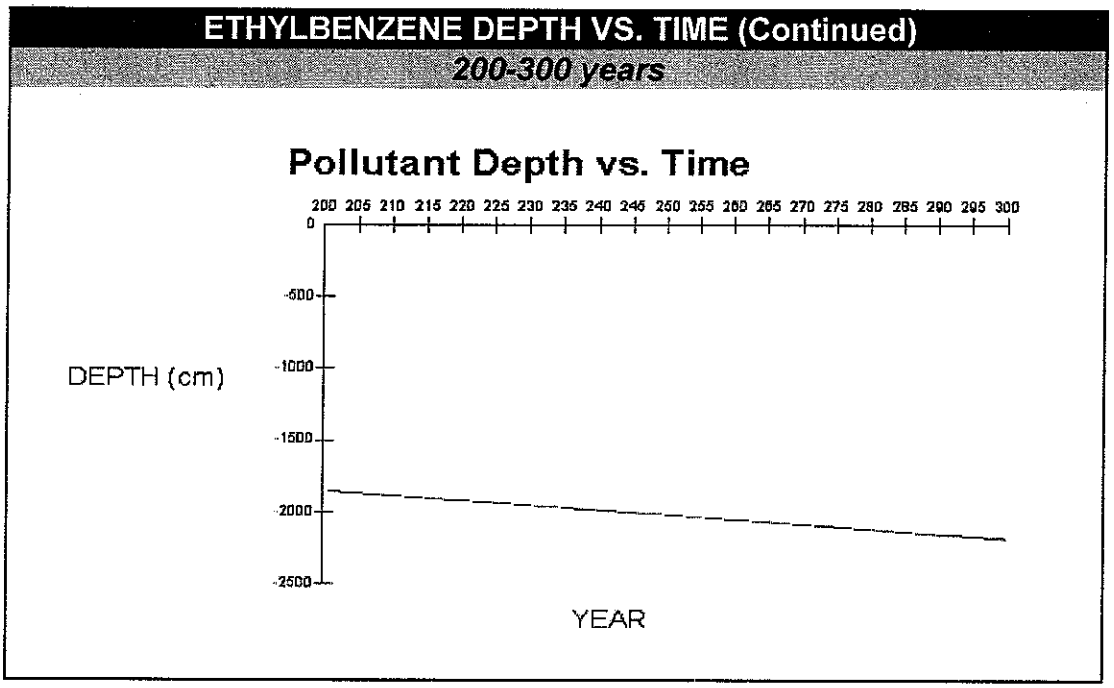


FIGURE D-6
DEPTH OF ETHYLBENZENE, TOLUENE, AND XYLENES (TOTAL)
PLUME LEADING EDGE OVER TIME

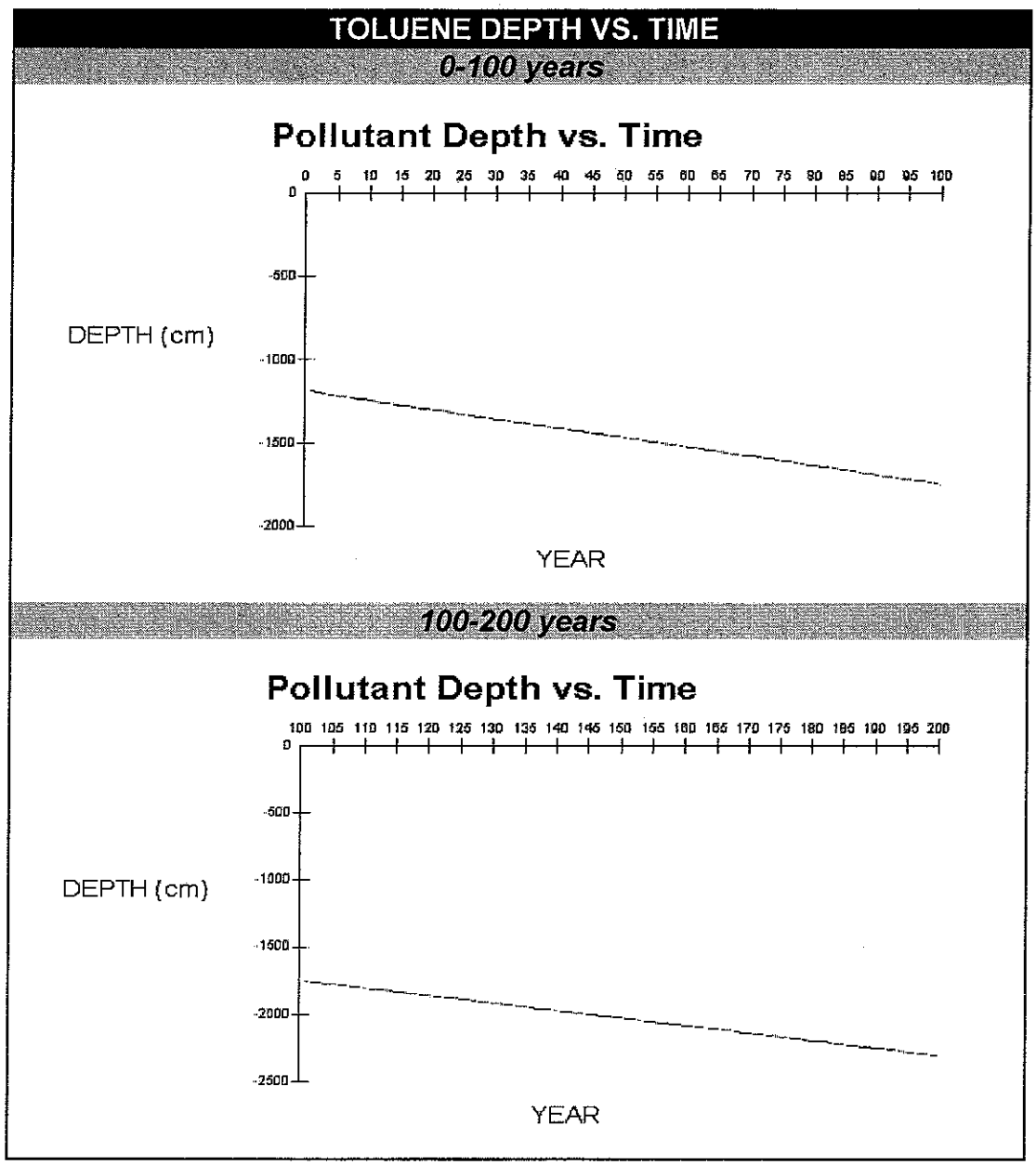


FIGURE D-6
DEPTH OF ETHYLBENZENE, TOLUENE, AND XYLENES (TOTAL)
PLUME LEADING EDGE OVER TIME

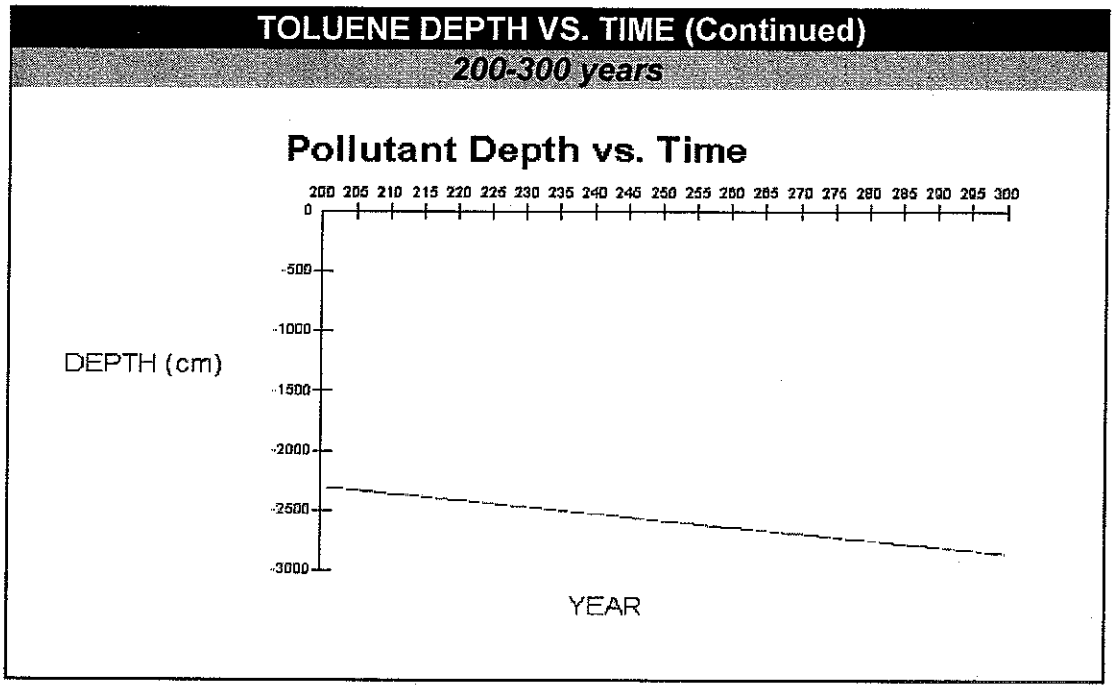


FIGURE D-6
DEPTH OF ETHYLBENZENE, TOLUENE, AND XYLENES (TOTAL)
PLUME LEADING EDGE OVER TIME

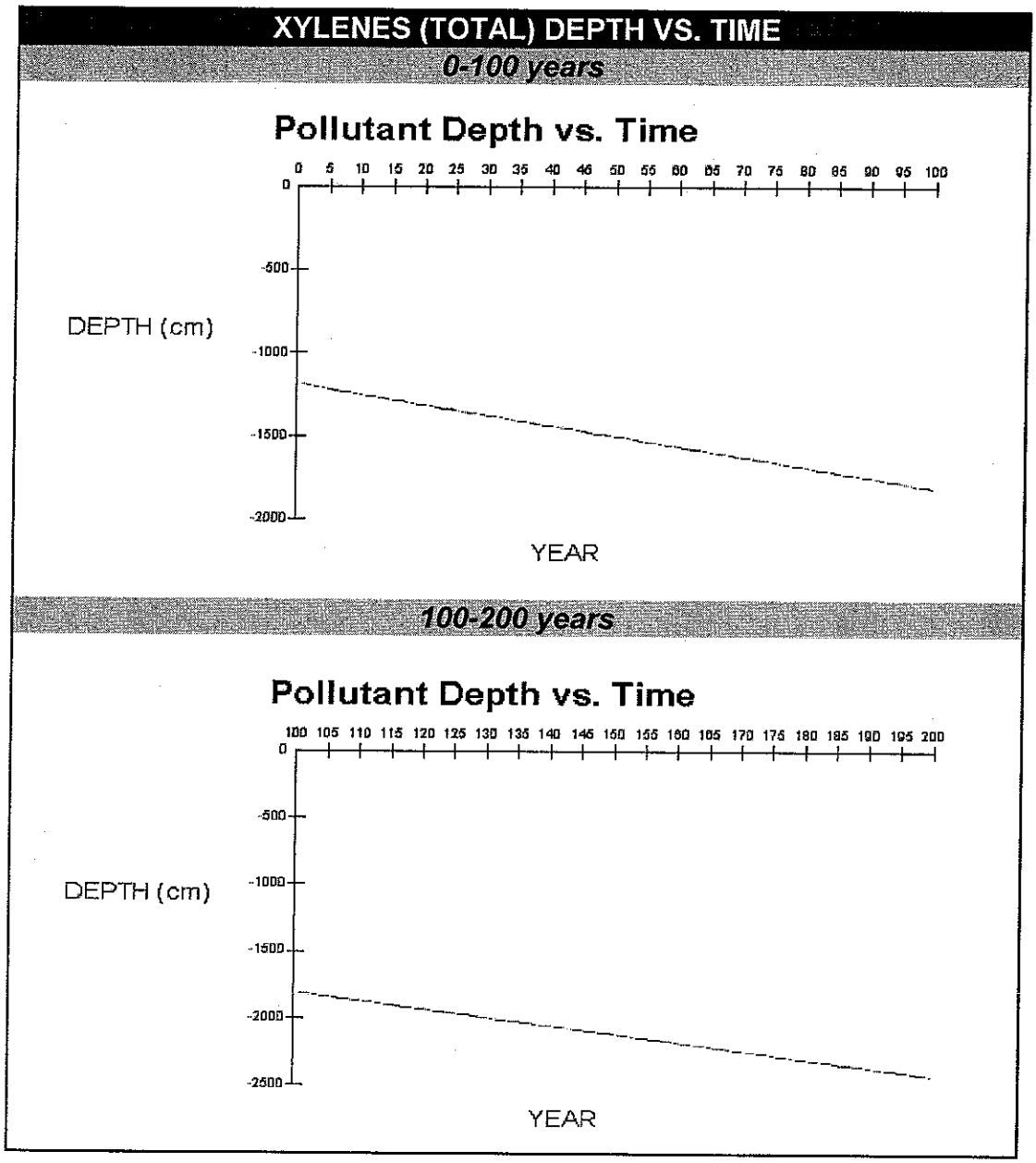


FIGURE D-6
DEPTH OF ETHYLBENZENE, TOLUENE, AND XYLENES (TOTAL)
PLUME LEADING EDGE OVER TIME

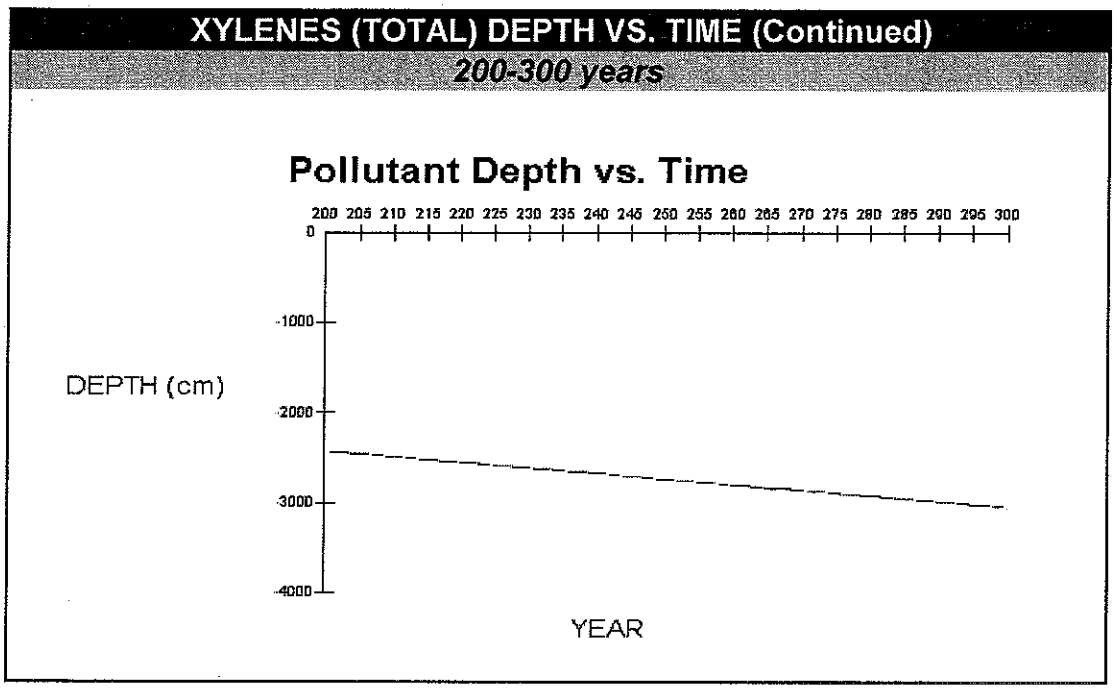


FIGURE D-7
DEPTH OF ACENAPHTHENE AND ACETOPHENONE PLUME LEADING EDGE OVER TIME

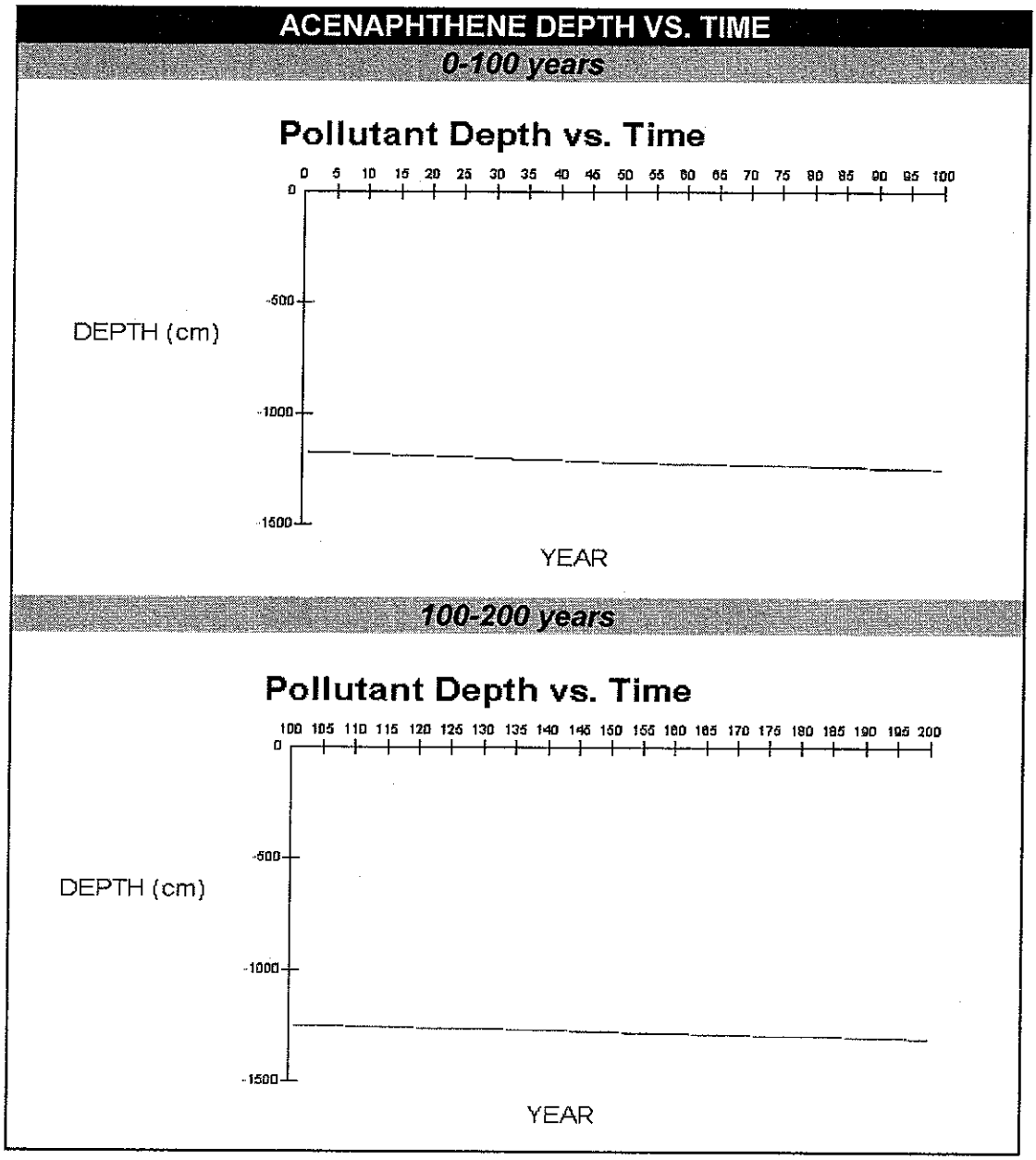


FIGURE D-7
DEPTH OF ACENAPHTHENE AND ACETOPHENONE PLUME LEADING EDGE OVER TIME

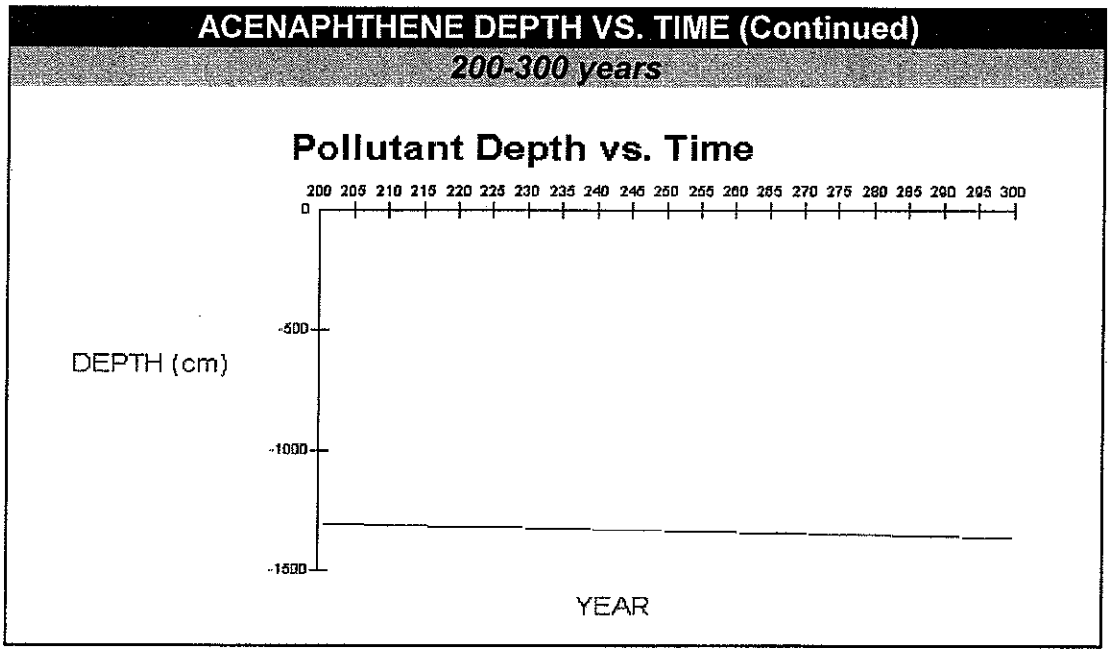


FIGURE D-7
DEPTH OF ACENAPHTHENE AND ACETOPHENONE PLUME LEADING EDGE OVER TIME

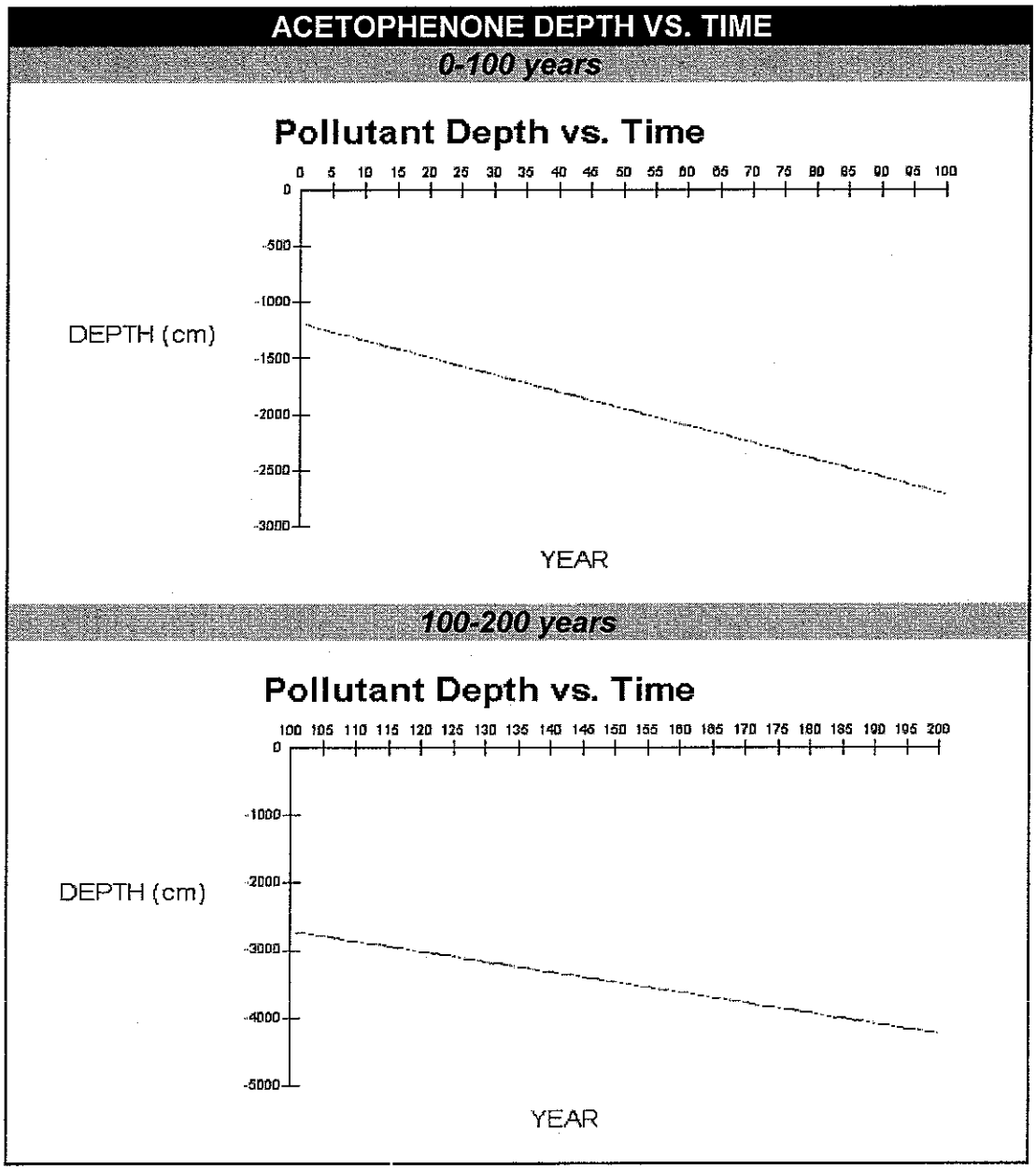


FIGURE D-7
DEPTH OF ACENAPHTHENE AND ACETOPHENONE PLUME LEADING EDGE OVER TIME

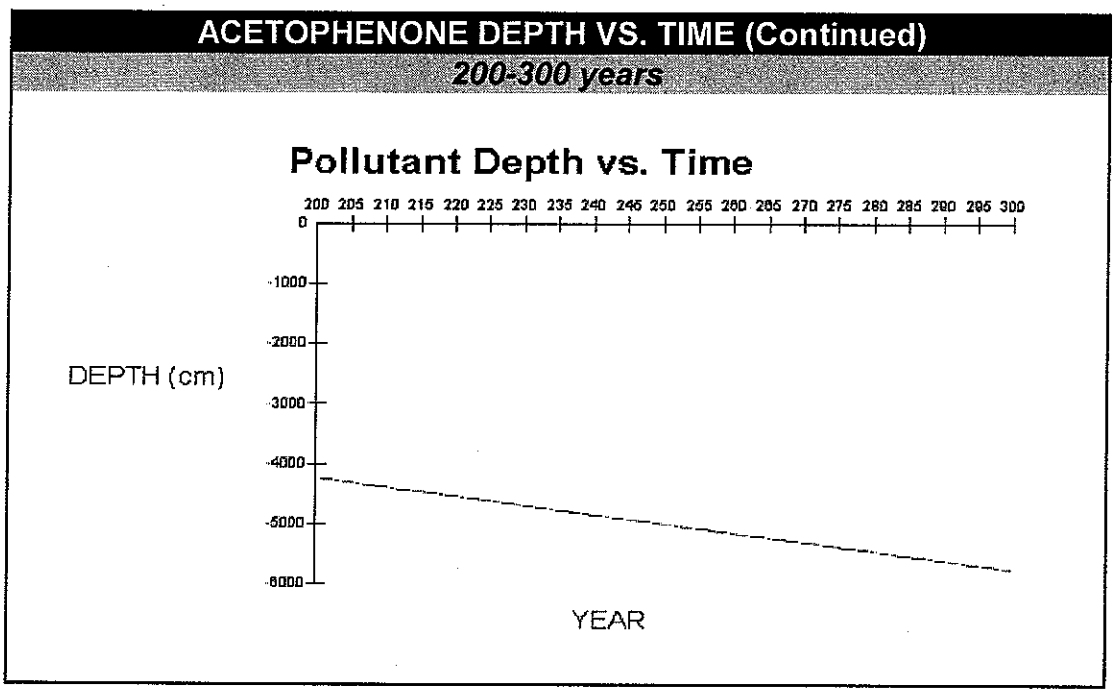


FIGURE D-8
DEPTH OF BENZO(A)ANTHRACENE AND CHRYSENE PLUME LEADING EDGE OVER TIME

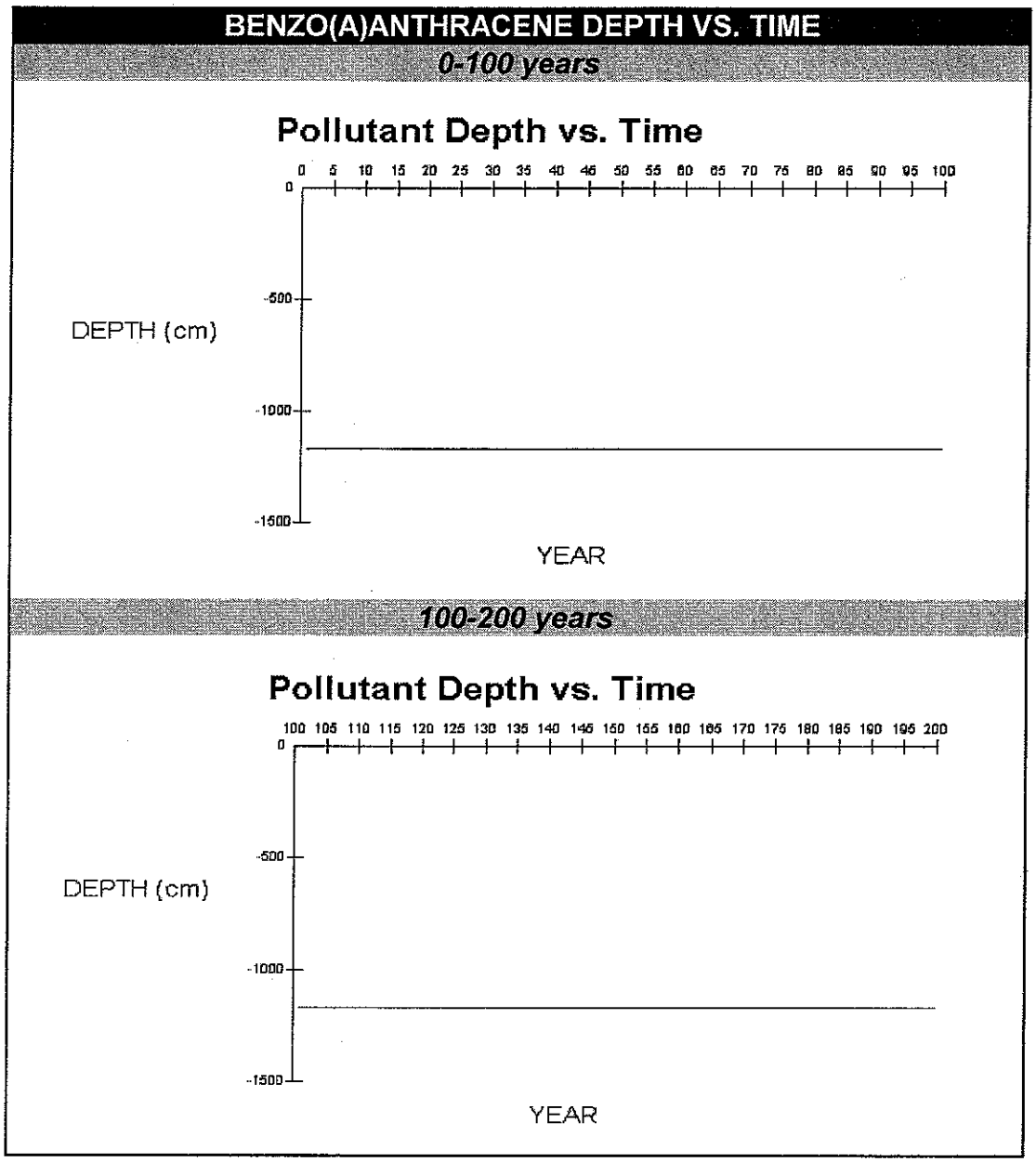


FIGURE D-8
DEPTH OF BENZO(A)ANTHRACENE AND CHRYSENE PLUME LEADING EDGE OVER TIME

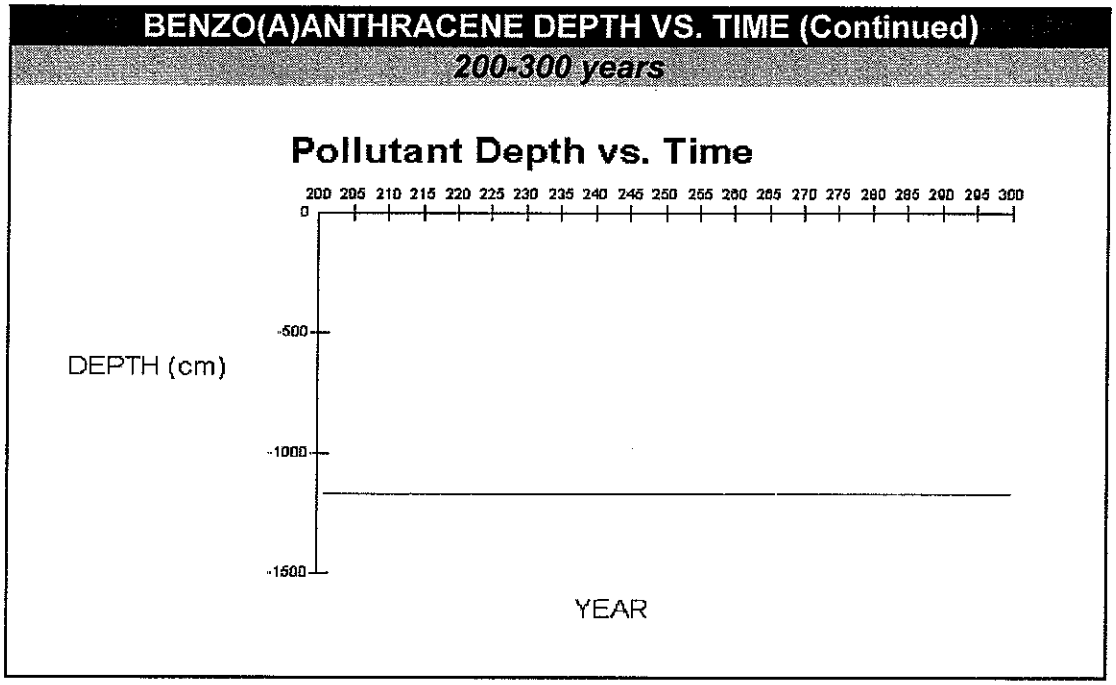


FIGURE D-8
DEPTH OF BENZO(A)ANTHRACENE AND CHRYSENE PLUME LEADING EDGE OVER TIME

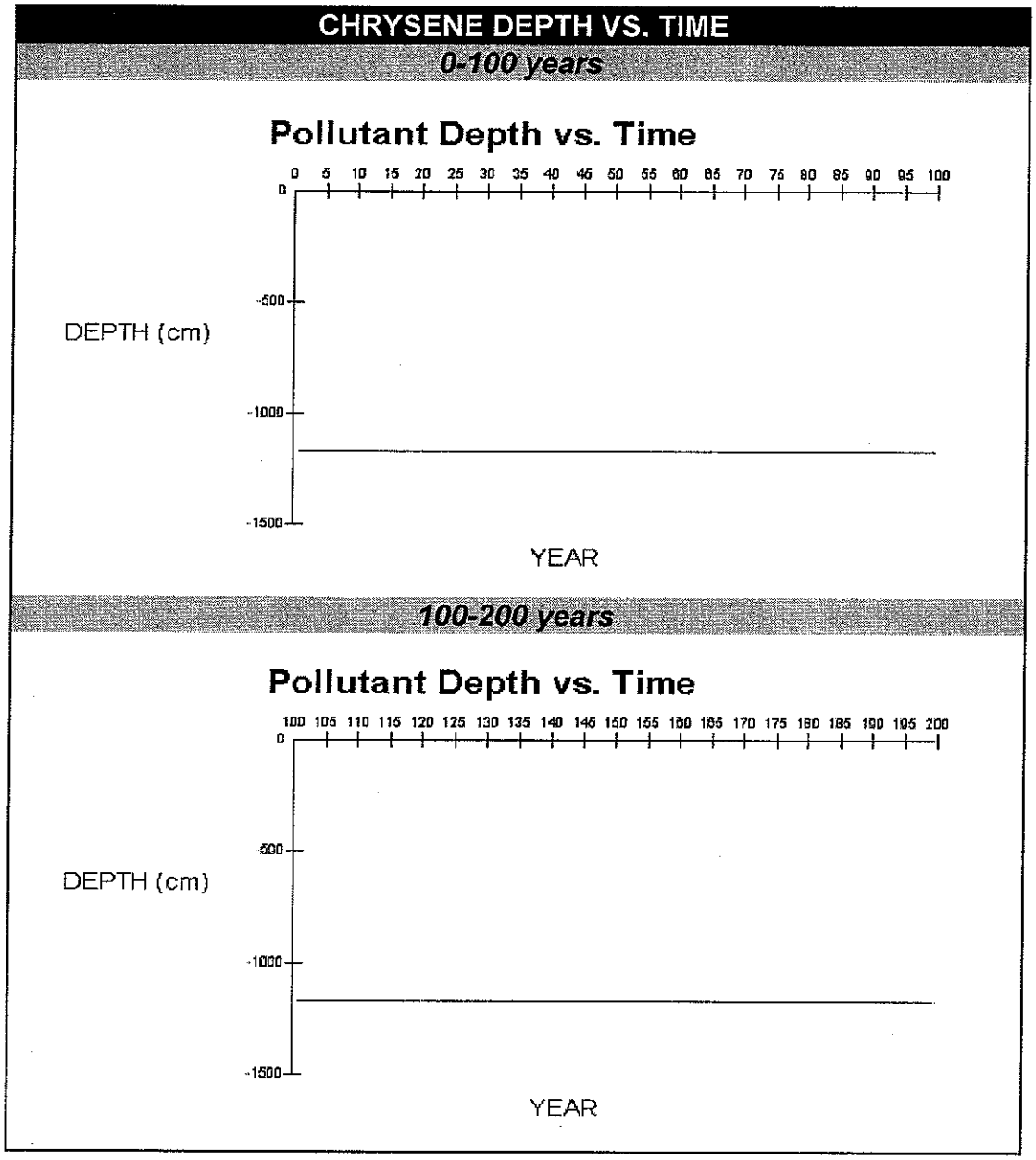


FIGURE D-8
DEPTH OF BENZO(A)ANTHRACENE AND CHRYSENE PLUME LEADING EDGE OVER TIME

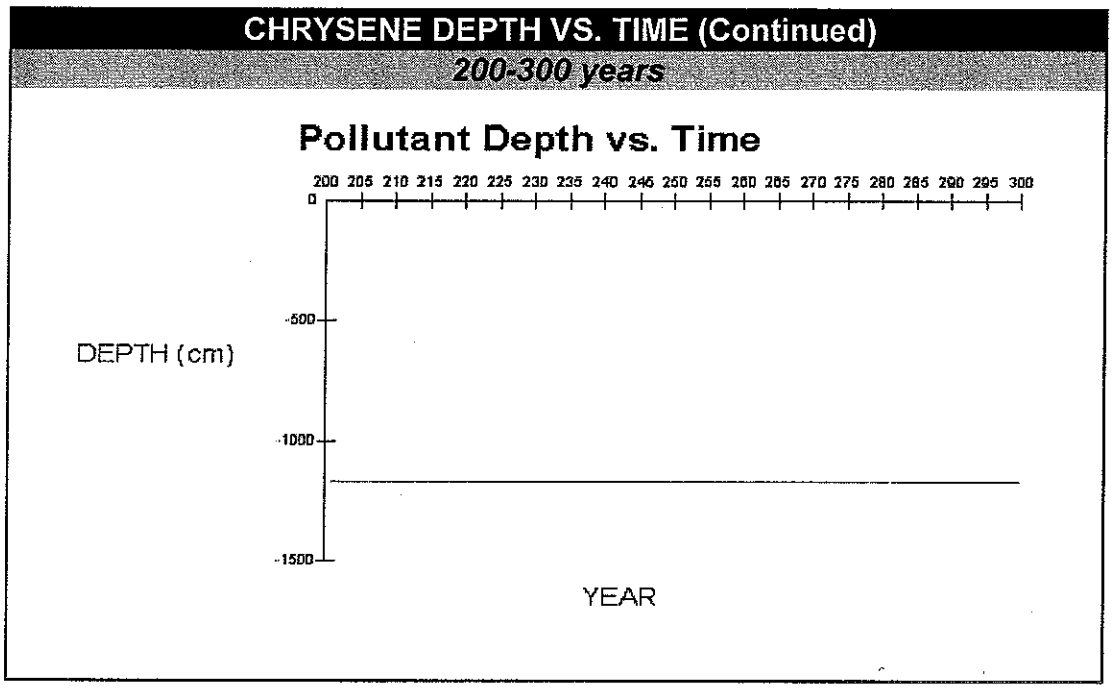


FIGURE D-9
DEPTH OF FLUORANTHENE AND FLUORENE PLUME
LEADING EDGE OVER TIME

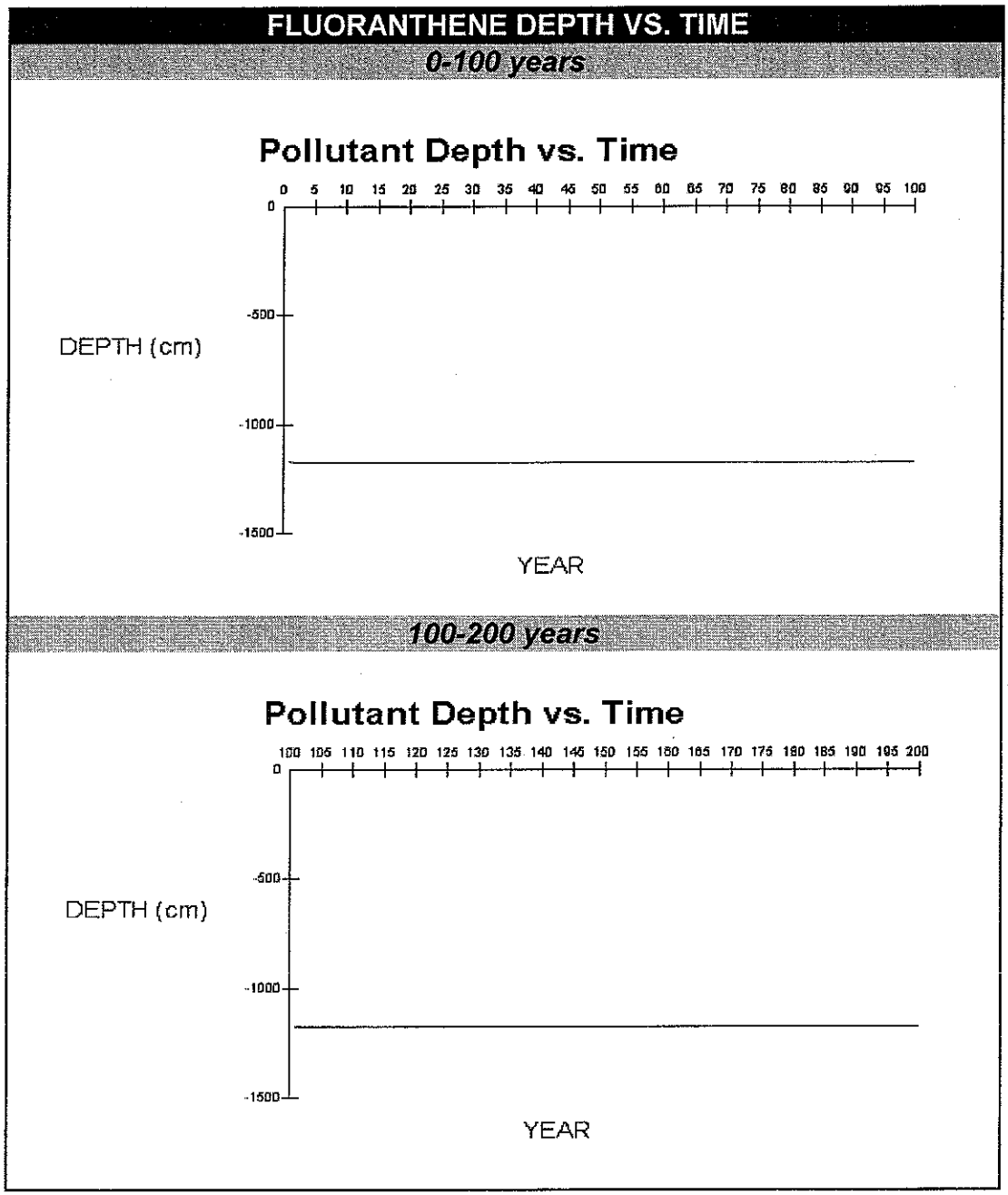


FIGURE D-9
DEPTH OF FLUORANTHENE AND FLUORENE PLUME
LEADING EDGE OVER TIME

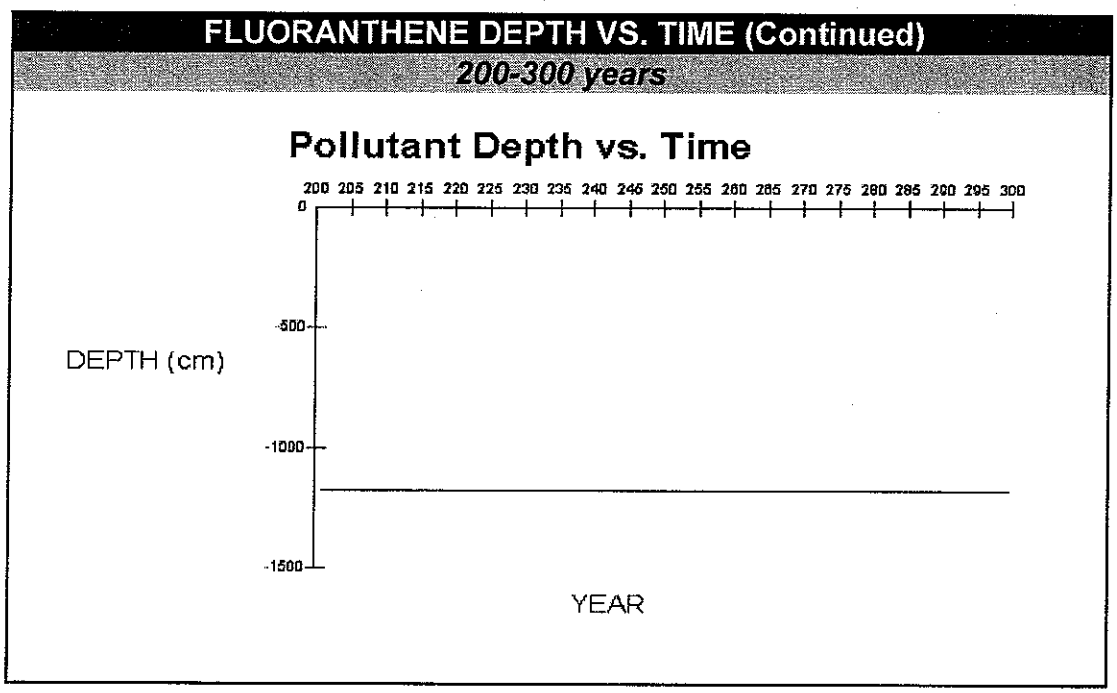


FIGURE D-9
DEPTH OF FLUORANTHENE AND FLUORENE PLUME LEADING EDGE OVER TIME

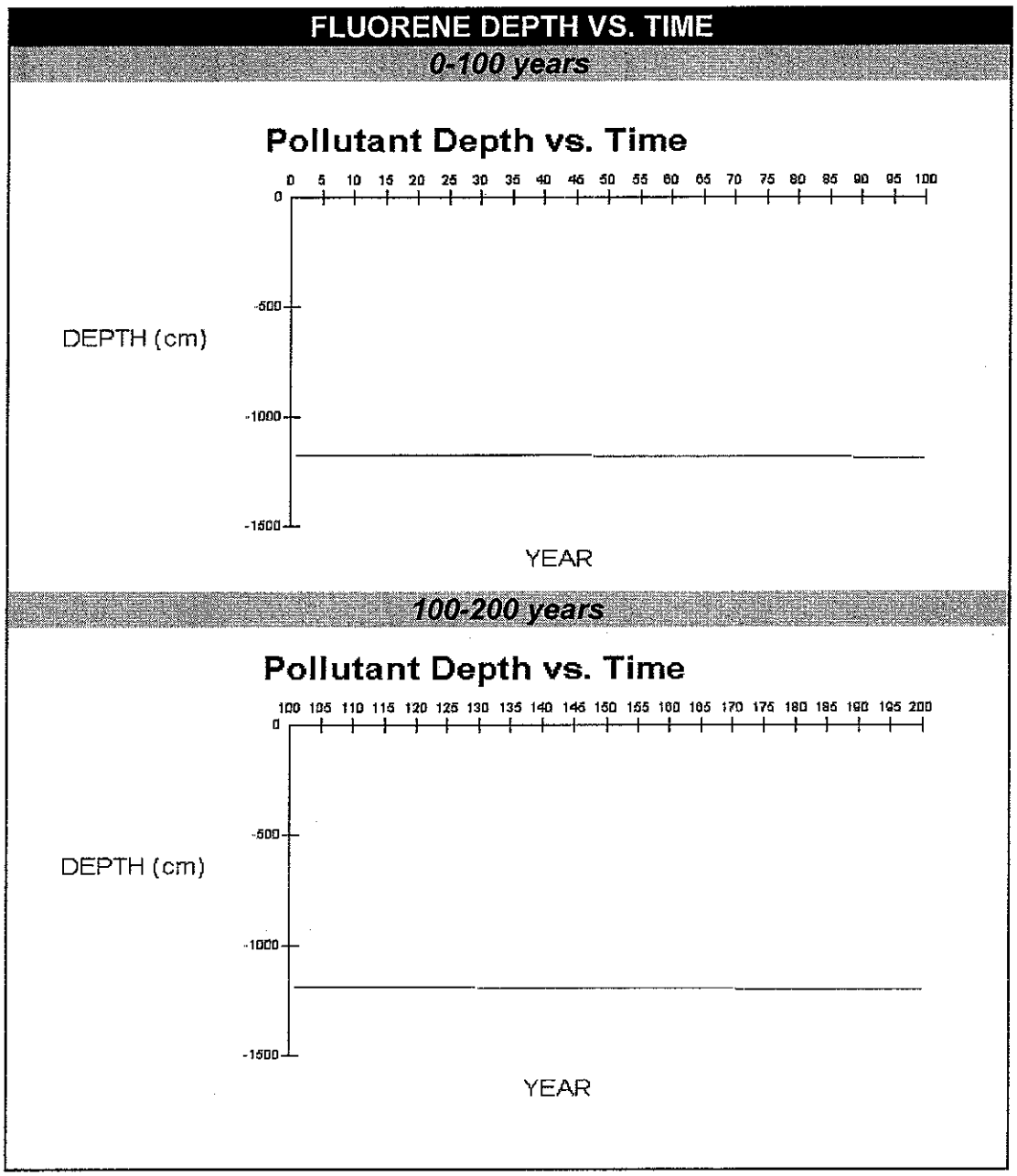


FIGURE D-9
DEPTH OF FLUORANTHENE AND FLUORENE PLUME
LEADING EDGE OVER TIME

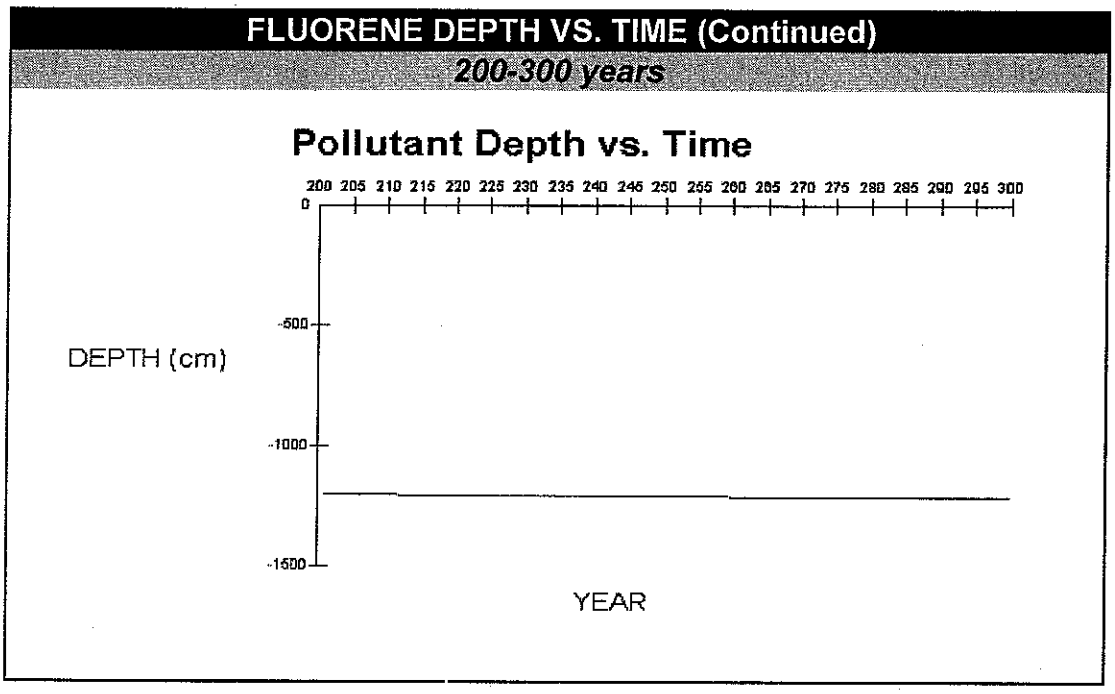
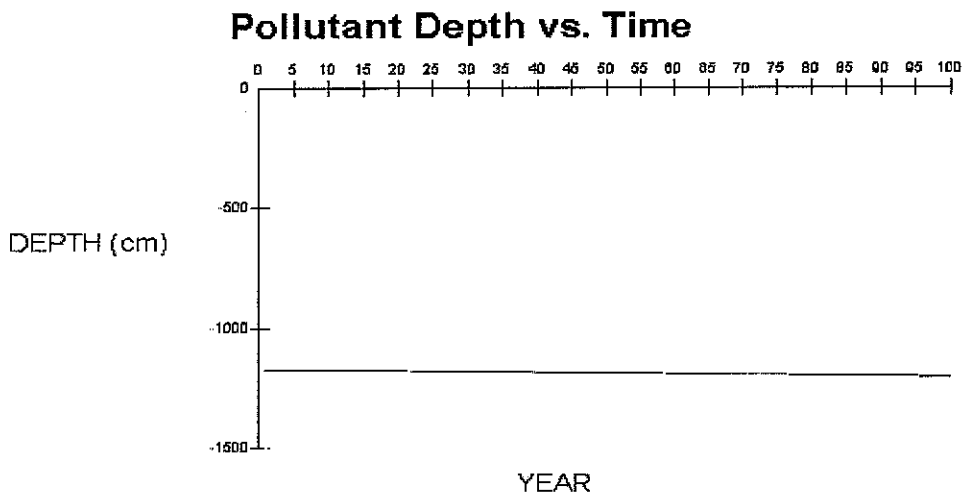


FIGURE D-10
DEPTH OF 2-METHYLNAPHTHALENE AND NAPHTHALENE PLUME LEADING EDGE OVER TIME

2-METHYLNAPHTHALENE DEPTH VS. TIME

0-100 years



100-200 years

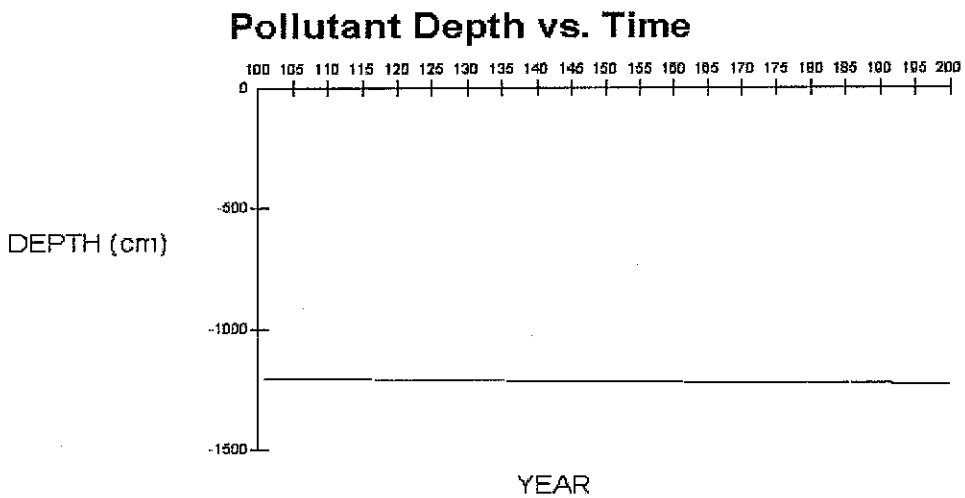


FIGURE D-10
DEPTH OF 2-METHYLNAPHTHALENE AND NAPHTHALENE PLUME LEADING EDGE OVER TIME

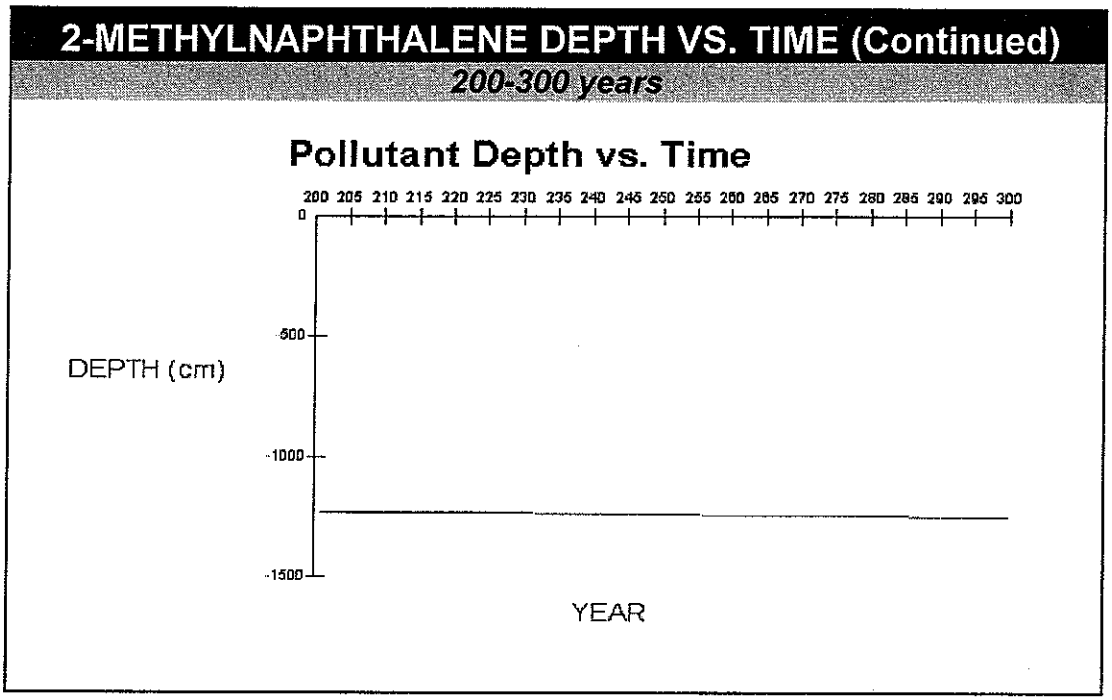


FIGURE D-10
DEPTH OF 2-METHYLNAPHTHALENE AND NAPHTHALENE PLUME LEADING EDGE OVER TIME

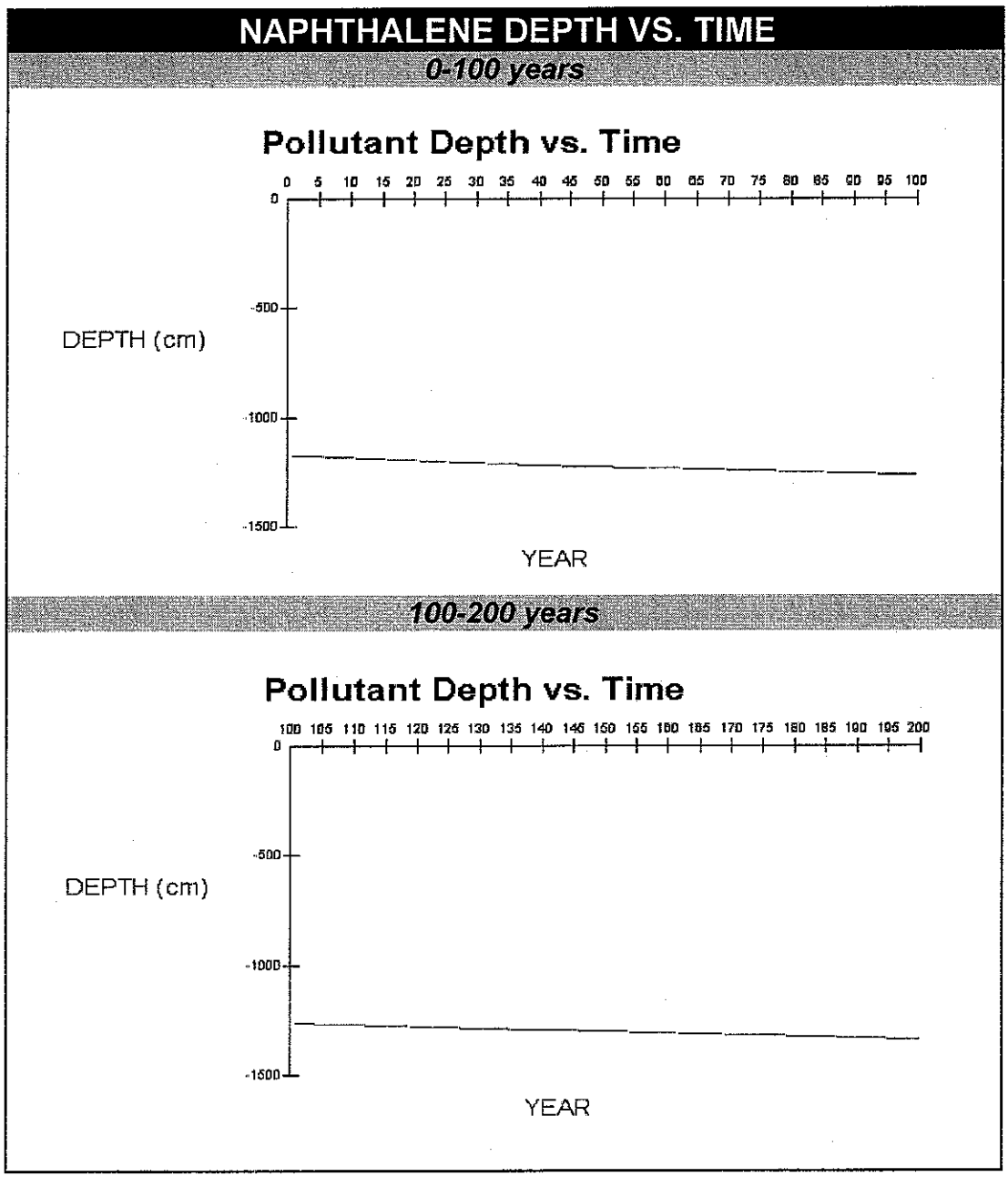


FIGURE D-10
DEPTH OF 2-METHYLNAPHTHALENE AND NAPHTHALENE PLUME LEADING EDGE OVER TIME

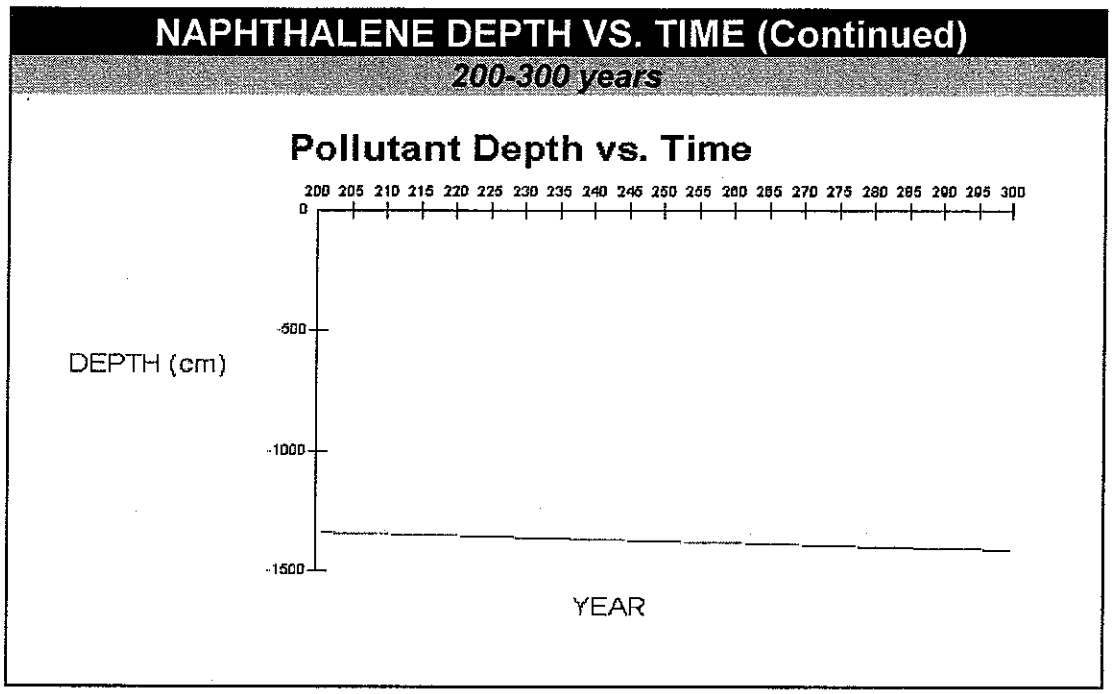


FIGURE D-11
DEPTH OF PHENANTHRENE AND PYRENE PLUME
LEADING EDGE OVER TIME

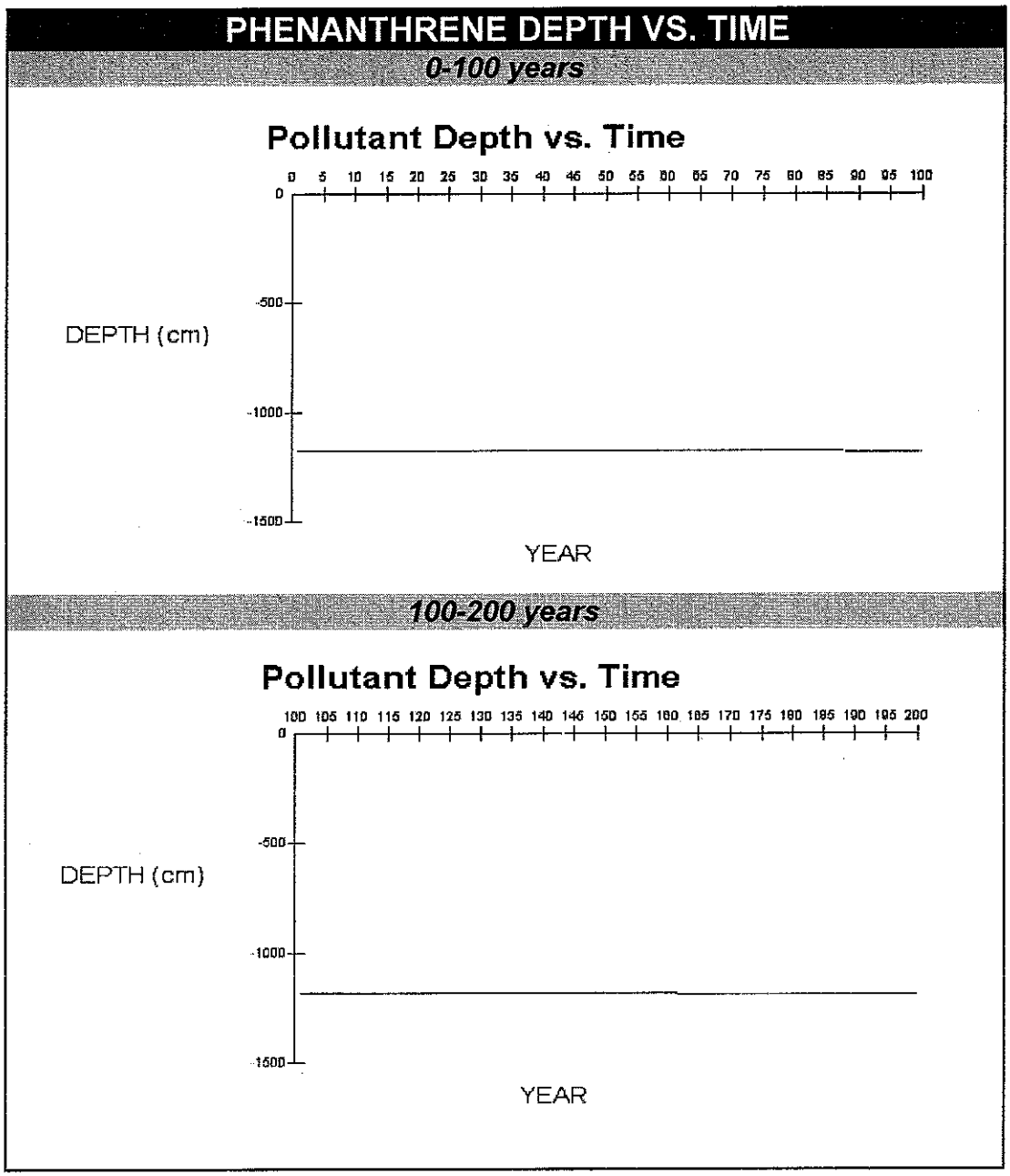


FIGURE D-11
DEPTH OF PHENANTHRENE AND PYRENE PLUME
LEADING EDGE OVER TIME

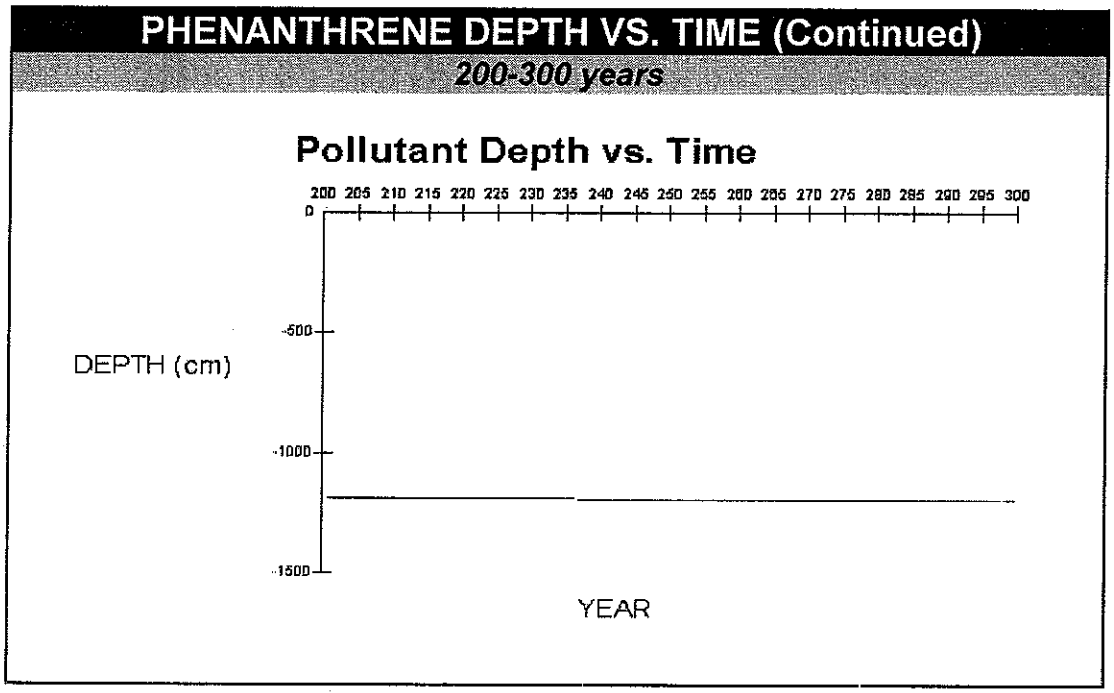


FIGURE D-11
DEPTH OF PHENANTHRENE AND PYRENE PLUME
LEADING EDGE OVER TIME

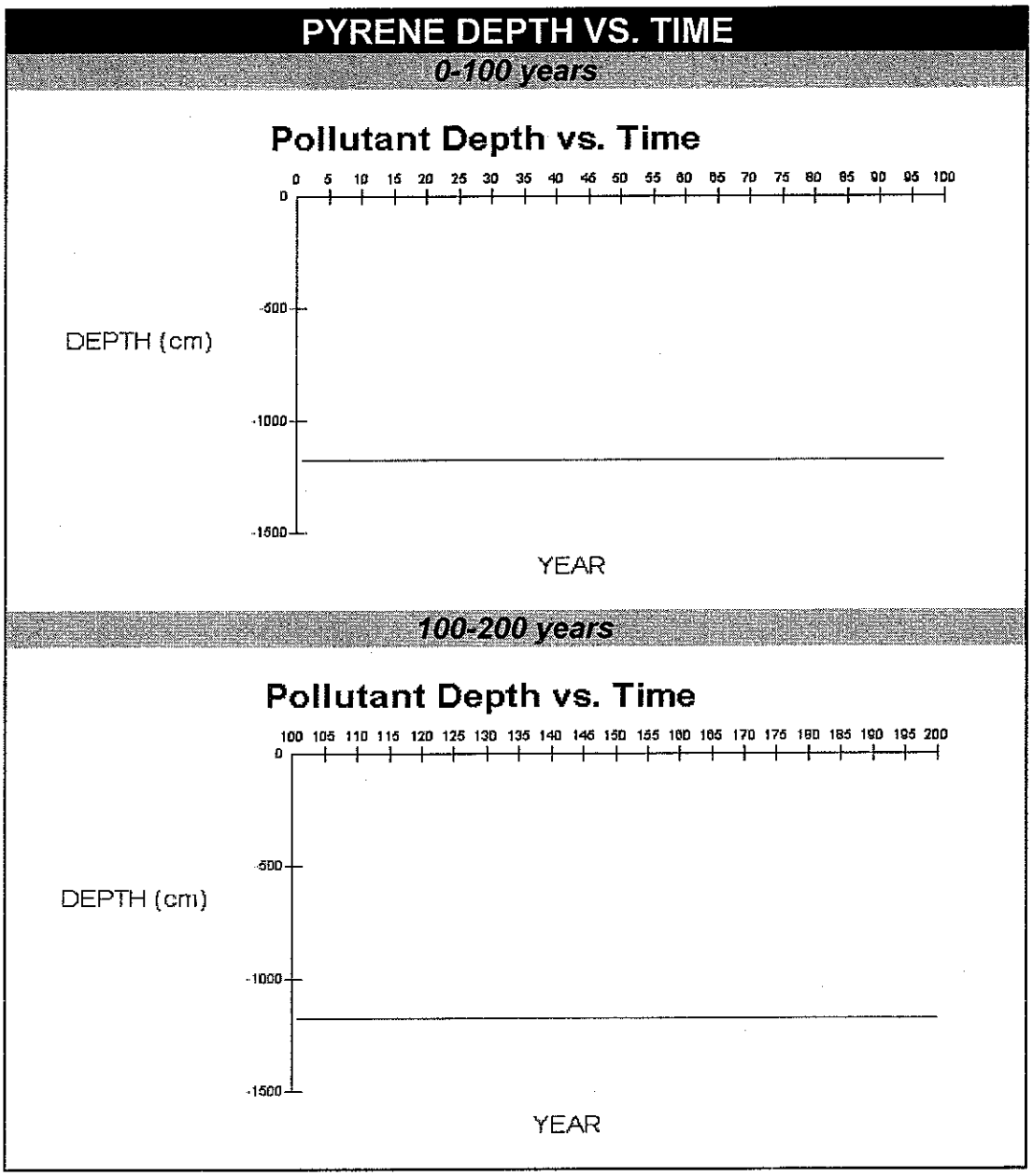


FIGURE D-11
DEPTH OF PHENANTHRENE AND PYRENE PLUME
LEADING EDGE OVER TIME

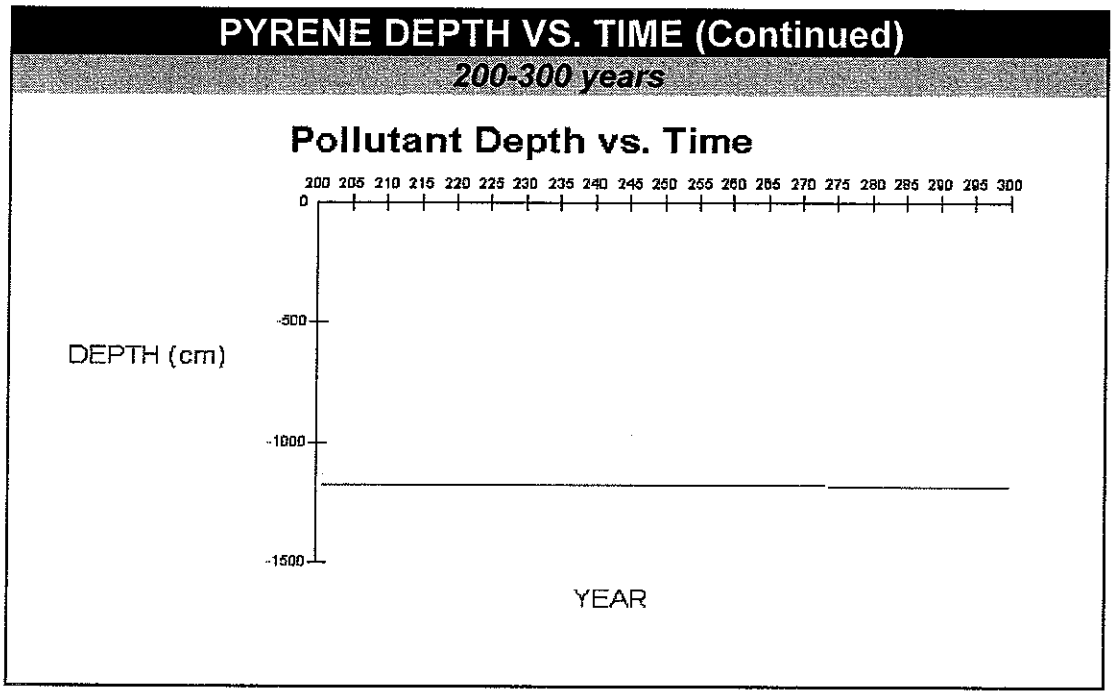


FIGURE D-12
DEPTH OF TPH-GASOLINE AND TPH-DIESEL FRACTIONS PLUME LEADING EDGE OVER TIME

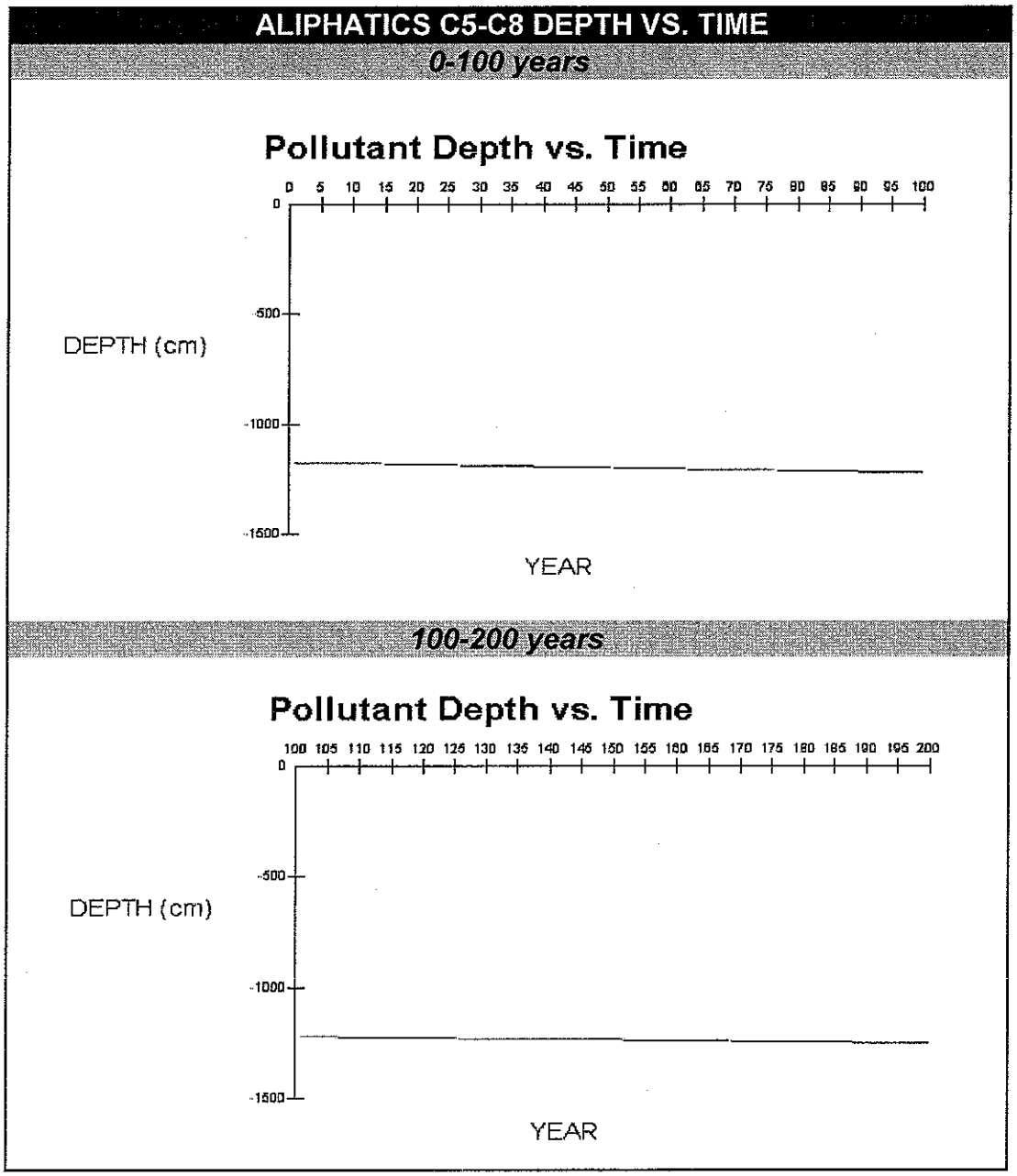


FIGURE D-12
DEPTH OF TPH-GASOLINE AND TPH-DIESEL FRACTIONS PLUME LEADING EDGE OVER TIME

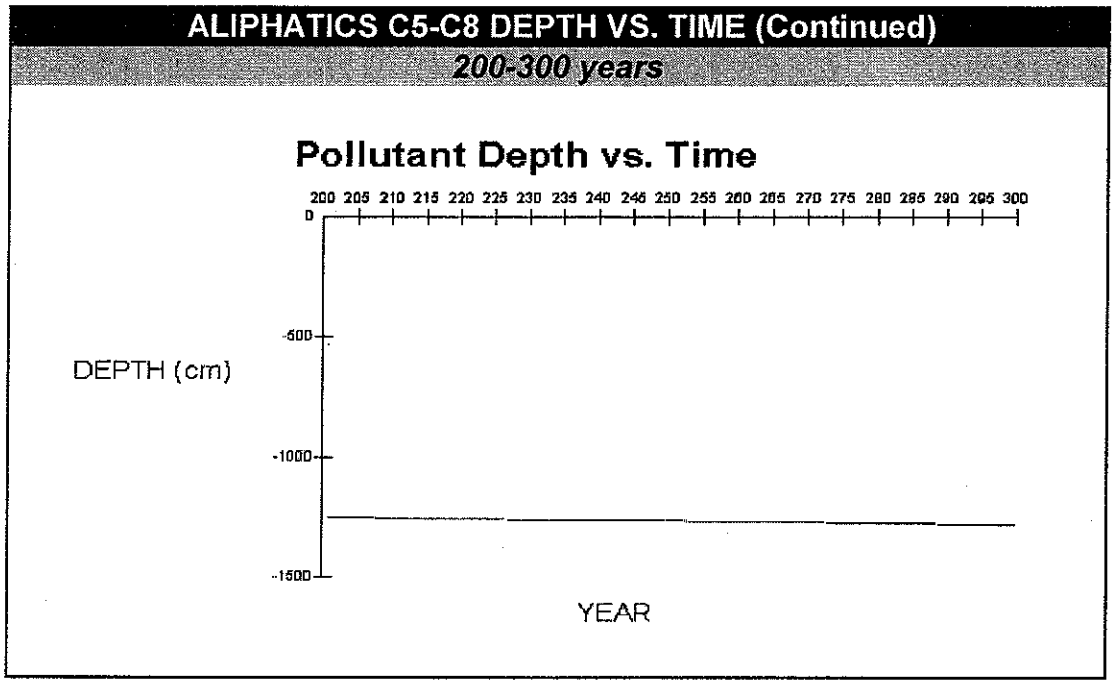


FIGURE D-12
DEPTH OF TPH-GASOLINE AND TPH-DIESEL FRACTIONS PLUME LEADING EDGE OVER TIME

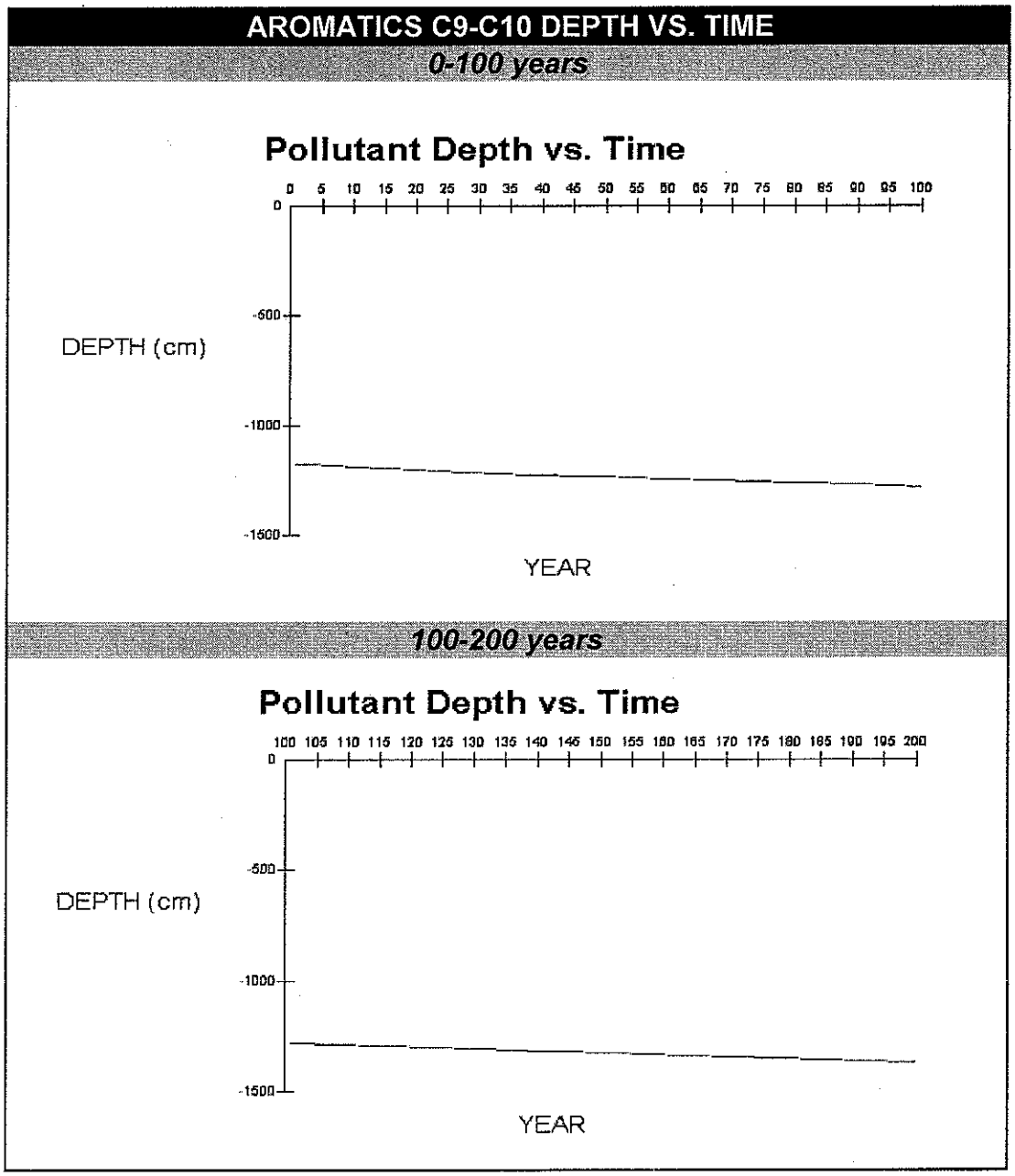


FIGURE D-12
DEPTH OF TPH-GASOLINE AND TPH-DIESEL FRACTIONS PLUME LEADING EDGE OVER TIME

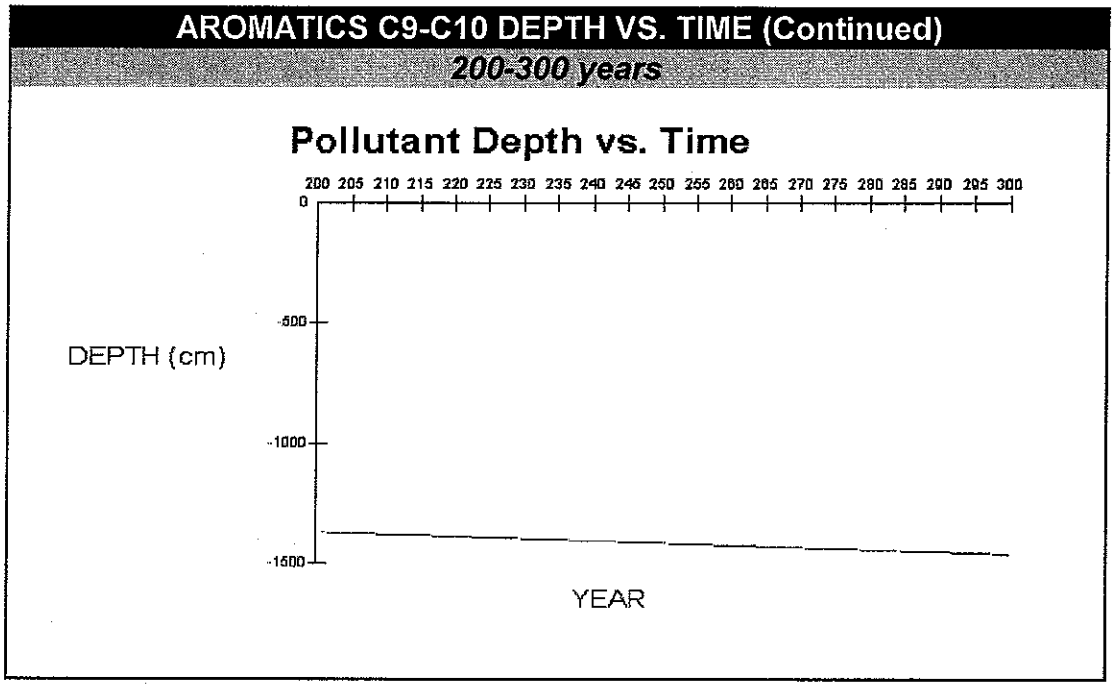


FIGURE D-12
DEPTH OF TPH-GASOLINE AND TPH-DIESEL FRACTIONS PLUME LEADING EDGE OVER TIME

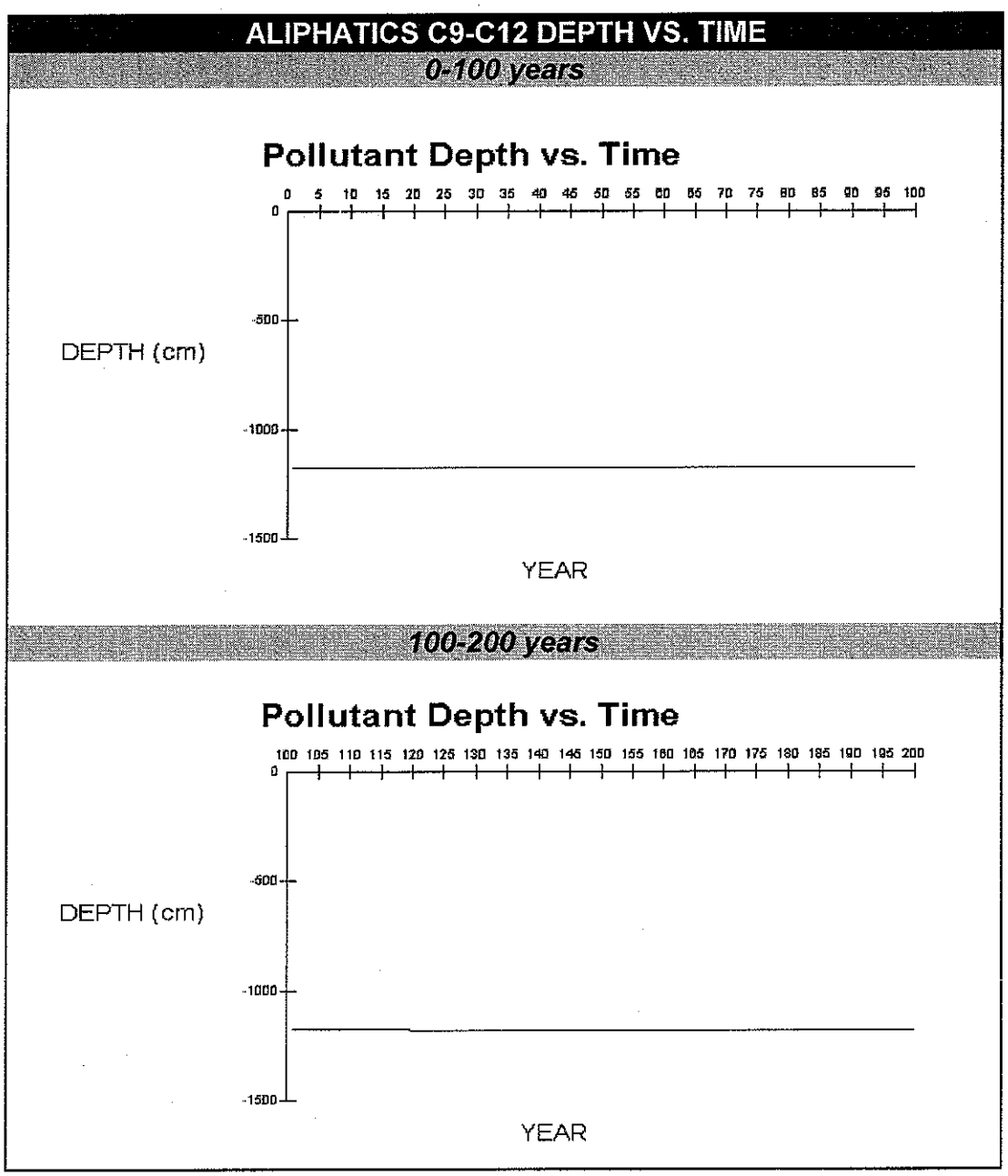


FIGURE D-12
DEPTH OF TPH-GASOLINE AND TPH-DIESEL FRACTIONS PLUME LEADING EDGE OVER TIME

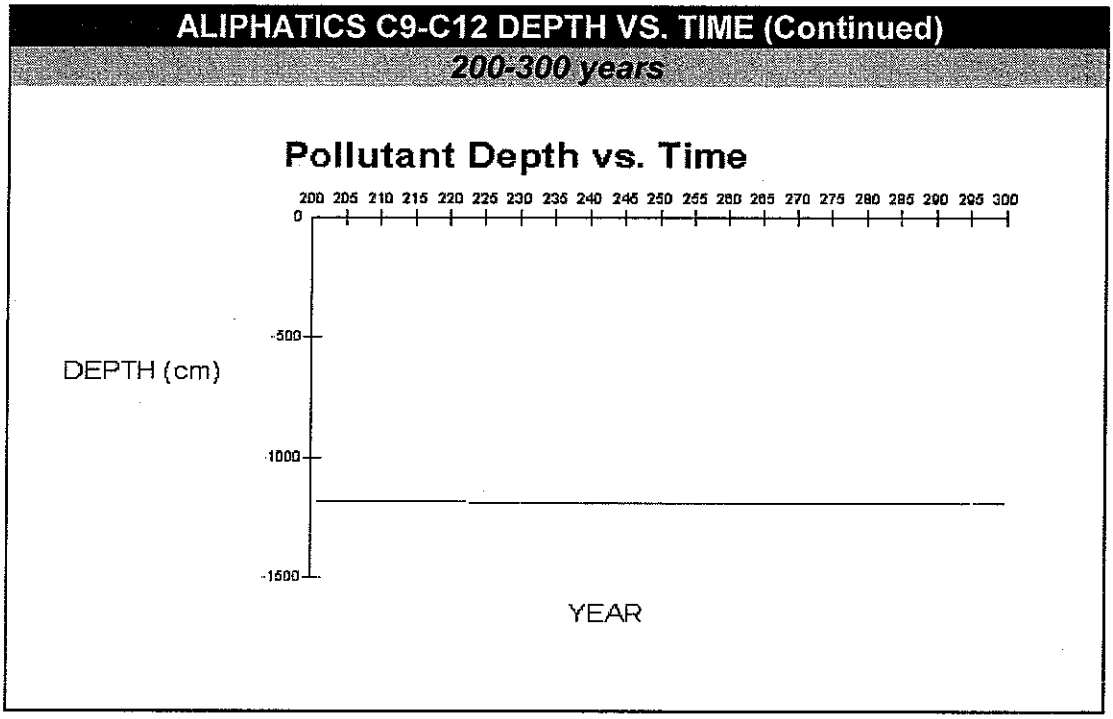


FIGURE D-13
DEPTH OF TPH-MOTOR OIL FRACTIONS PLUME
LEADING EDGE OVER TIME

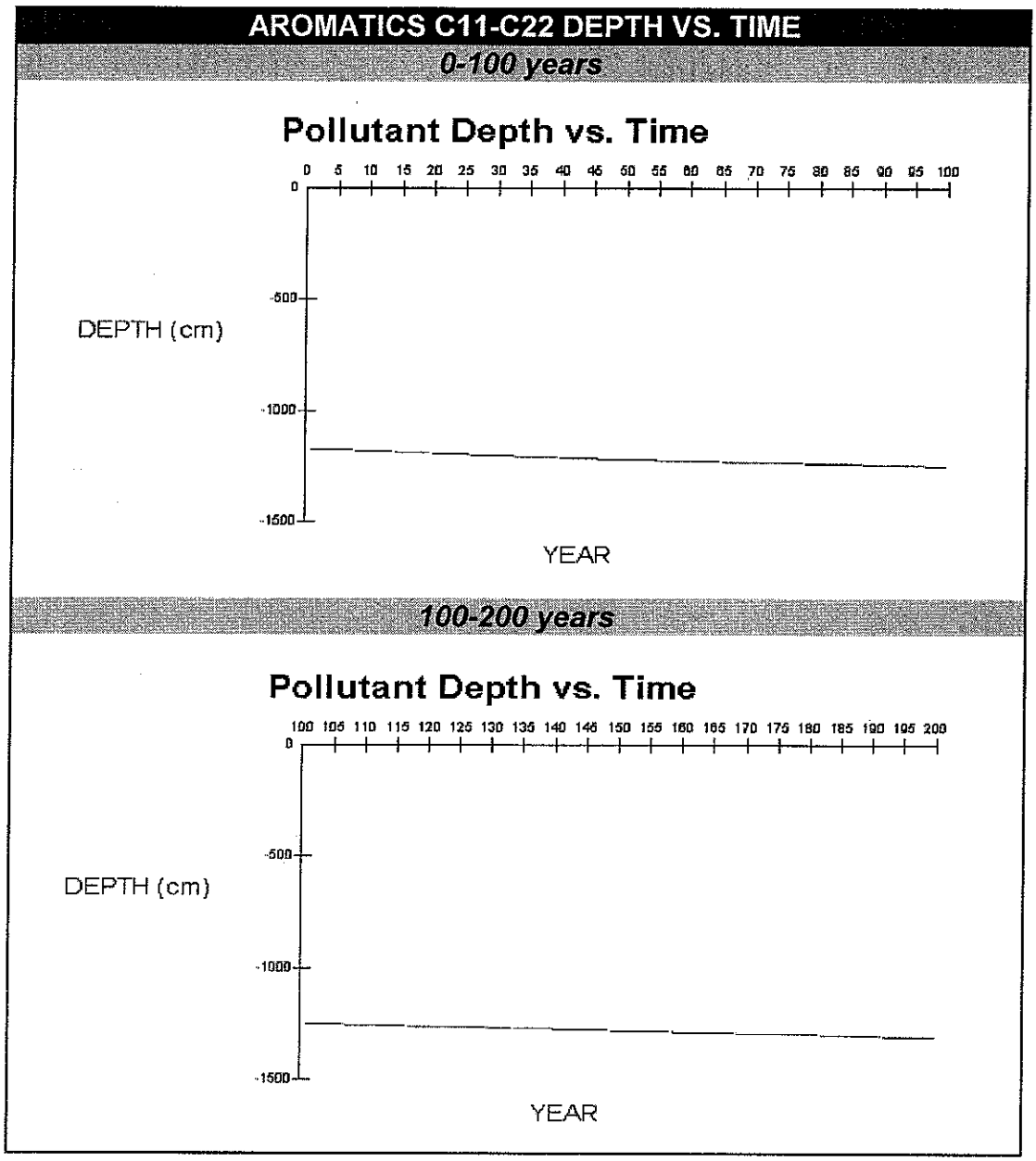


FIGURE D-13
DEPTH OF TPH-MOTOR OIL FRACTIONS PLUME
LEADING EDGE OVER TIME

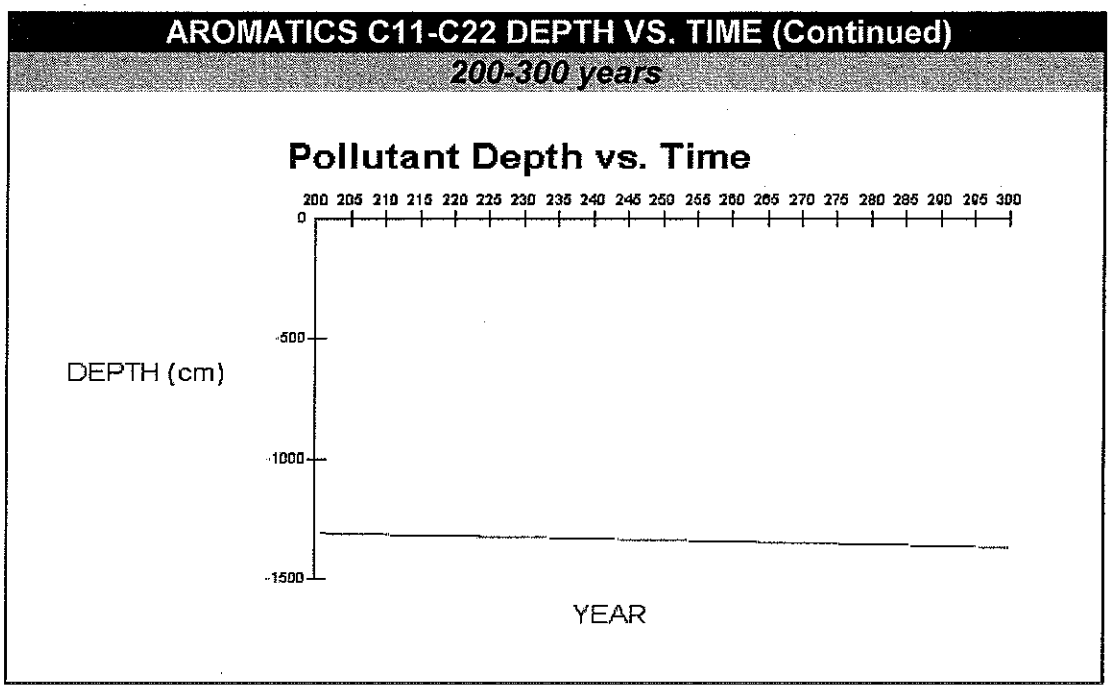


FIGURE D-13
DEPTH OF TPH-MOTOR OIL FRACTIONS PLUME
LEADING EDGE OVER TIME

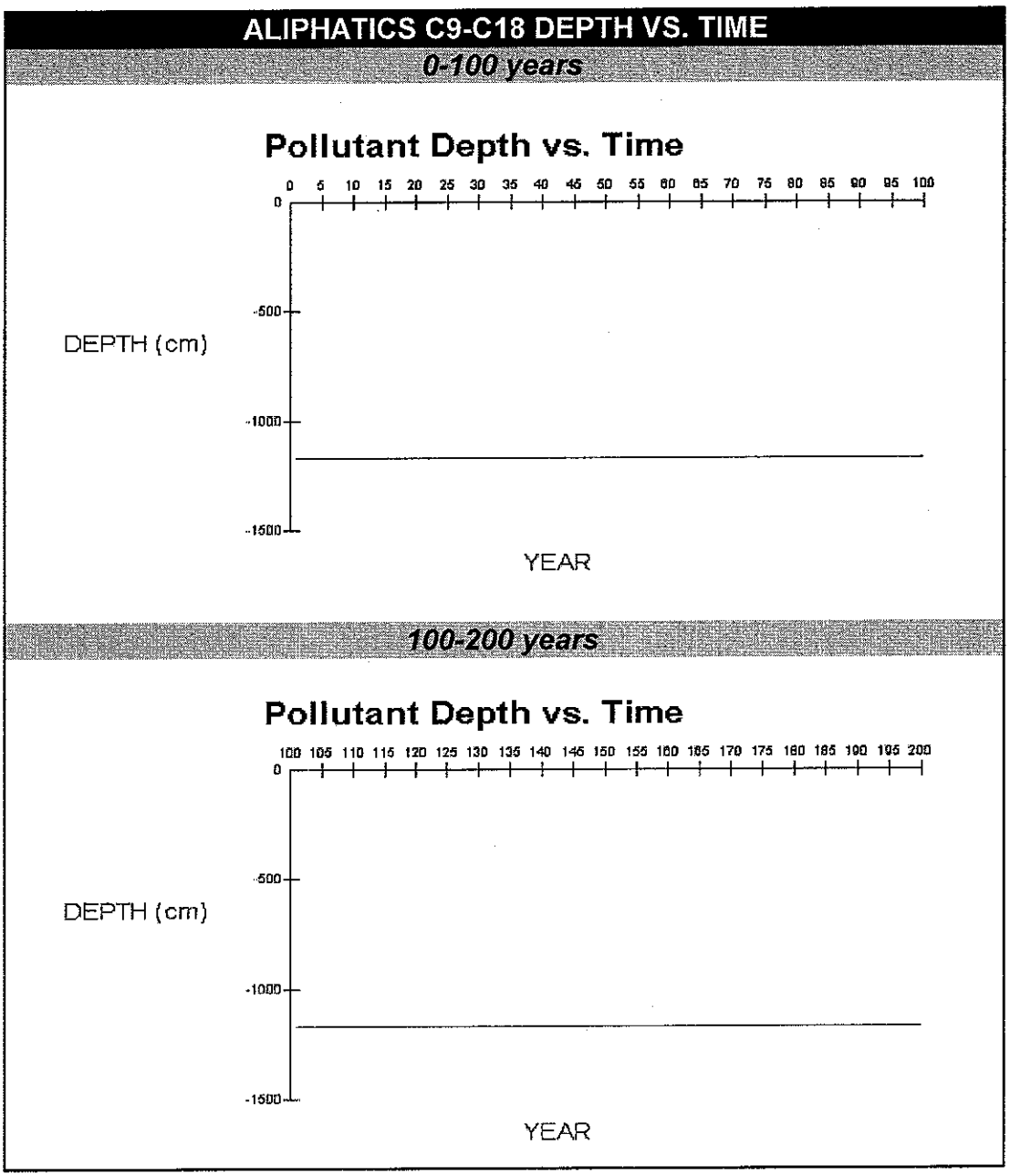
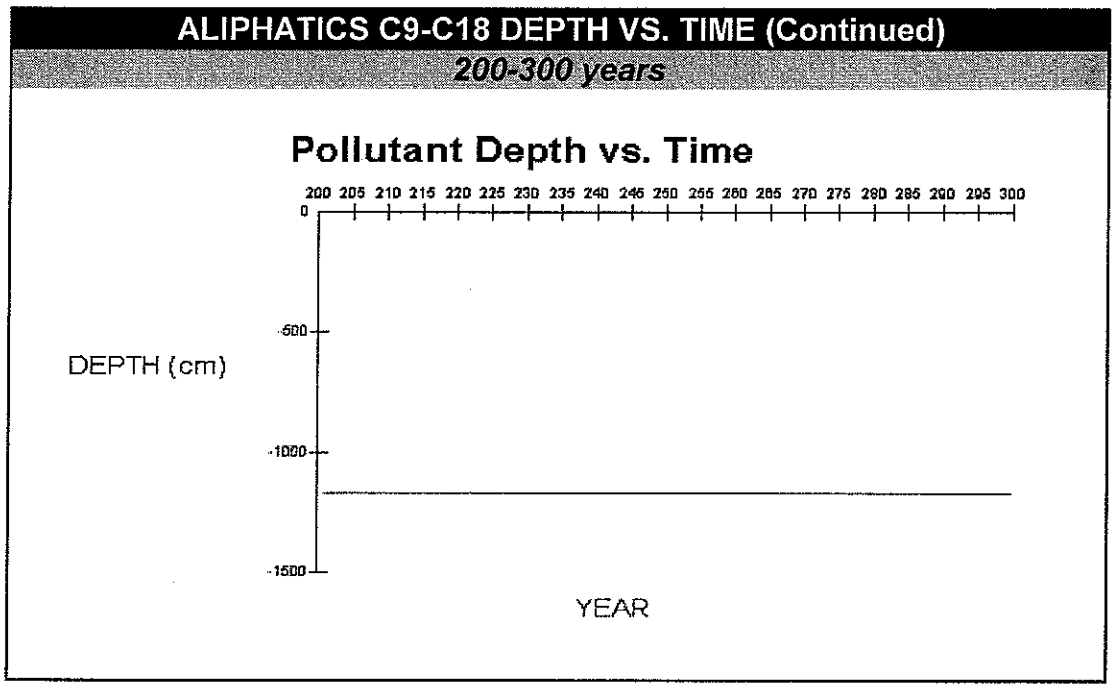


FIGURE D-13
DEPTH OF TPH-MOTOR OIL FRACTIONS PLUME
LEADING EDGE OVER TIME



TABLES

TABLE D-1
SESOIL MODEL INPUT PARAMETERS (BASE CASE)
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Layer	Lithology	Thickness (cm)	Concentration[a] (mg/kg)	Application Area (cm^2)	Bulk Density (g/cm^3)	Intrinsic Permeability (cm^2)	Effective Porosity (unitless)	Organic Carbon Content (%)	Soil Disconnectedness Index (unitless)
Top	Lean clay	304.8 (10 feet)	0; 0; 150	4.65e+06	1.67	2.5e-10	0.3	0.1	7.5
Middle	Sand and silty sand	914.4 (30 feet)	7.1; 130; 25,000[b]	4.65e+06	1.67	4.81e-10	0.3	0.1	7.5
Bottom	Sand and silty sand	5,486.4 (180 feet)	0; 0; 0	4.65e+06	1.67	4.81e-10	0.3	0.1	7.5

Notes: Both middle and bottom layers are subdivided in SESOIL into 10 sublayers of equal thickness to allow for greater detail in predicted contaminant concentration distribution over depth. The values of soil parameters are chosen conservatively to result in faster contaminant transport through the vadose zone.

a Maximum concentrations chosen to represent source area in the model for each individual chemical or TPH fraction. The first value represents the initial soil concentration for VOCs (for total xylenes); the second value is the initial soil concentration for SVOCs (for 2-Methylnaphthalene); and the third is the initial soil concentration for total TPH.

b Input concentrations for all fractions but C5-C8 aliphatics were assigned as portions of the highest total TPH detected. Because the C5-C8 aliphatics constitute less than 2 percent of the total TPH (see Table 4 in the RI report), the actual maximum detected concentration of this fraction was used as inputs assigned to the whole thickness of the affected soil.

cm Centimeter
cm^2 Square centimeters
g/cm^3 Gram per cubic centimeter
mg/kg Milligram per kilogram
RI Remedial Investigation
SESOIL Seasonal soil compartment model
SVOC Semivolatile organic compound
TPH Total petroleum hydrocarbons
VOC Volatile organic compound

TABLE D-2
SESOIL MODEL INPUT PARAMETERS - CHEMICAL PROPERTIES
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Compound	Molecular Weight[a] (g/mole)	Solubility[b,c] (mg/L)	Air Diffusion Coefficient[b,c] (cm^2/s)	Henry's Law Constant[b,c] (m^3-atm/mole)	Adsorption Coefficient on Organic Carbon[b,c] K_{oc} (L/kg)	Adsorption Coefficient in Soil[d] K_d (L/kg)
Volatile Organic Compounds						
1,2-Dichlorobenzene	1.47E+02	1.56E+02	6.90E-02	1.90E-03	6.15E+02	6.15E-01
1,4-Dichlorobenzene	1.47E+02	7.38E+01	6.90E-02	2.40E-03	6.15E+02	6.15E-01
Ethylbenzene	1.06E+02	1.69E+02	7.50E-02	7.88E-03	3.63E+02	3.63E-01
Toluene	9.21E+01	5.26E+02	8.70E-02	6.64E-03	1.82E+02	1.82E-01
Xylenes (Total)	1.06E+02	1.30E+02	7.14E-02	7.00E-03	1.53E+02	1.53E-01
Semivolatile Organic Compounds						
Acenaphthene	1.54E+02	4.24E+00	4.21E-02	1.55E-04	2.58E+03	2.58E+00
Acetophenone	1.20E+02	6.13E+03	6.00E-02	1.07E-05	4.10E+01	4.10E-02
Benzo(a)anthracene	2.28E+02	9.40E-03	5.10E-02	3.35E-06	4.00E+05	4.00E+02
Chrysene	2.28E+02	1.60E-03	2.48E-02	9.46E-05	4.00E+05	4.00E+02
Fluoranthene	2.02E+02	2.06E-01	3.02E-02	1.61E-05	1.10E+05	1.10E+02
Fluorene	1.66E+02	1.98E+00	3.68E-02	6.36E-05	1.40E+04	1.40E+01
2-Methylnaphthalene	1.42E+02	2.46E+01	4.80E-02	5.18E-04	7.50E+03	7.50E+00
Naphthalene	1.28E+02	3.10E+01	5.90E-02	4.83E-04	2.00E+03	2.00E+00
Phenanthrene	1.78E+02	1.15E+00	3.68E-02	2.33E-05	2.95E+04	2.95E+01
Pyrene	2.02E+02	1.35E-01	2.77E-02	1.10E-05	1.05E+05	1.05E+02
TPH Fractions[e]						
C5-C8 Aliphatics	8.10E+01	3.60E+01	1.00E-01	8.18E-01	7.94E+02	7.94E-01
C9-C10 Aromatics[f]	1.20E+02	6.50E+01	1.00E-01	1.19E-02	1.58E+03	1.58E+00
C11-C22 Aromatics[g]	1.30E+02	2.50E+01	1.00E-01	3.47E-03	2.51E+03	2.51E+00
C9-C12 Aliphatics[f]	1.30E+02	4.30E-01	1.00E-01	1.98E+00	3.16E+04	3.16E+01
C9-C18 Aliphatics[g]	1.60E+02	3.40E-02	1.00E-01	2.97E+00	2.51E+05	2.51E+02
C19-C36 Aliphatics[h]	2.70E+02	2.50E-06	1.00E-01	1.21E+02	6.31E+08	6.31E+05

Sources:

a National Institute of Standards and Technology (NIST) 2003. "Standard Reference Database Number 69." March. http://webbook.nist.gov/chemistry/mw-ser.html. Accessed on 01/23/04

b EPA. 1996 "Soil Screening Guidance: User's Guide." Office of Emergency and Remedial Response Washington, DC. Publication 9355.4-23. July.

c EPA 2003. Superfund Chemical Data Matrix (SCDM). http://www.epa.gov/superfund/resources/scdm/index.htm#guide. Accessed on 01/23/04

d K_d was calculated as K_{oc} multiplied by average total organic carbon of 0.001.

e Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG). 1997 Volume 3 "Selection of Representative TPH Fractions Based on Fate and Transport Considerations." July 1997. http://www.aehs.com/

f The fate and transport properties for this fraction are used to describe TPH of diesel range

g The fate and transport properties for this fraction are used to describe TPH of motor oil range.

h Hydrocarbons of this fraction were detected in soil samples, but they are considered practically insoluble and immobile and were not modeled

Notes:

cm^2/s	Square centimeter per second
g/mole	Grams per mole
L/kg	Liters per kilogram
SESOIL	Seasonal soil compartment model
TPH	Total petroleum hydrocarbon

TABLE D-3
SESOIL SENSITIVITY ANALYSIS RESULTS
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Parameter	Base Case Value	Changed Value	Percent Change	Change in Peak		Percent Change in Peak	
				Time[a] (years)	Concentration[a] (mg/L)	Time	Concentration
Bulk density, g/cm^3	1.67	1.25	-25	-16	-0.002	-14	-11
		2.09	+25	+18	+0.001	+16	+9
Intrinsic permeability, cm^2	4.62E-10	2.31E-10	-50	+14	-0.004	+12	-26
		6.93E-10	+50	-5	+0.0005	-4	+3
Soil disconnectedness index[b]	7.5	5	-33	-21	-0.015	-18	-98
		10	+33	+47	+0.157	+41	+1,042
Effective porosity[b]	0.3	0.25	-17	-1	+0.061	-1	+407
		0.35	+17	+4	-0.013	+3	-85
Organic carbon content, %	0.1	0.05	-50	-35	+0.007	-30	+45
		0.2	+50	+72	-0.006	+63	-38

Notes: The sensitivity analysis was conducted using xylenes as an indicator parameter; the input parameters for the base case (calibrated model) are listed in Tables D-1 and D-2. The results are presented in the form of time to predicted peak and maximum dissolved total xylenes concentration at approximately 60 feet below ground surface or 20 feet below the main soil contamination zone.

[a] For the base case, it took 115 years for total xylenes to reach the maximum concentration of 0.015 mg/L at a depth of 60 feet below ground surface.

[b] Unitless

bgs Below ground surface
mg/L Milligram per liter
cm^2 Square centimeter
SESOIL Seasonal soil compartment model
g/cm^3 Gram per cubic centimeter

TABLE D-4
SUMMARY OF SESOIL MODELING RESULTS
FTIR-27 REMEDIAL INVESTIGATION
NATIONAL TRAINING CENTER, FORT IRWIN, CALIFORNIA

Contaminant	Contaminant Migration Rate (feet/year)	Travel Time to Groundwater (year)	Maximum Leachate Concentration at the Water Table (mg/L)	Depth of Plume's Leading Edge on the 300th year (feet)	Leachate Concentration at Plume's Leading Edge on the 300th year[a] (mg/L)
VOC					
1,2-Dichlorobenzene	0.20	> 300	0	6.12E+01	2.83E-01
1,4-Dichlorobenzene	0.20	> 300	0	6.11E+01	7.55E-02
Ethylbenzene	0.24	> 300	0	7.18E+01	9.55E-05[b]
Toluene	0.31	> 300	0	9.39E+01	4.34E-06[b]
Xylenes (Total)	0.33	> 300	0	1.00E+02	9.95E-05[b]
SVOC					
Acenaphthene	0.15	> 300	0	4.48E+01	1.05E+00
Acetophenone	0.63	> 300	0	1.89E+02	1.12E+00
Benzo(a)anthracene	0.13	> 300	0	3.85E+01	8.90E-03
Chrysene	0.13	> 300	0	3.85E+01	1.60E-03
Fluoranthene	0.13	> 300	0	3.87E+01	2.01E-02
Fluorene	0.13	> 300	0	3.99E+01	9.38E-01
2-Methylnaphthalene	0.14	> 300	0	4.10E+01	2.24E+00
Naphthalene	0.15	> 300	0	4.64E+01	8.41E+00
Phenanthrene	0.13	> 300	0	3.93E+01	1.01E+00
Pyrene	0.13	> 300	0	3.87E+01	7.33E-02
TPH Fractions					
TPH-g					
C5-C8 Aliphatics	0.14	> 300	0	4.21E+01	1.00E-12[b]
TPH-d					
C9-C10 Aromatics	0.16	> 300	0	4.80E+01	5.31E+01
C9-C12 Aliphatics	0.13	> 300	0	3.91E+01	4.30E-01
TPH-mo					
C11-C22 Aromatics	0.15	> 300	0	4.49E+01	1.26E+01
C9-C18 Aliphatics	0.13	> 300	0	3.85E+01	3.40E-02

Notes:

[a] Predicted concentrations are for the worst-case scenario (long-term continuous source, no dispersion, and no biodegradation). Under the scenarios when a limited biodegradation is occurring in the vadose zone or the site is paved, the predicted concentrations are below detection.

[b] Below detection.

mg/L Milligrams per liter
SVOC Semivolatile organic compound
TPH-g Total petroleum hydrocarbons in gasoline range
TPH-mo Total petroleum hydrocarbons in motor oil range
VOC Volatile organic compound
SESOIL Seasonal Soil Compartment model
TPH Total petroleum hydrocarbon
TPH-d Total petroleum hydrocarbons in diesel range

ATTACHMENT D-1

SESOIL FATE AND TRANSPORT MODEL DESCRIPTION

1.0 INTRODUCTION

This attachment provides a detailed description of the Seasonal Soil Compartment (SESOIL) model, which is used to simulate contaminant fate and transport in the vadose zone. Section 2.0 discusses the processes simulated in the SESOIL model.

2.0 SESOIL MODEL DESCRIPTION

The SESOIL model is a one-dimensional, vertical transport model used for the unsaturated soil or vadose zone (General Sciences Corporation [GSC] 1995). Solute transport can be simulated for groundwater and surface runoff, including eroded sediment. The SESOIL model can consider only one compound at a time and is based on mass balance and equilibrium partitioning of the chemical between different phases (which are dissolved, sorbed, vapor, and pure). The SESOIL model was designed to perform long-term simulations of chemical transport and transformations in the soil. The model uses theoretically derived equations to represent water transport, sediment transport on the land surface, pollutant transformation, and pollutant migration to the atmosphere and groundwater. Climate data, compartment geometry, and soil and chemical property data are the major components used in these equations.

The processes modeled by the SESOIL model are categorized into three cycles: hydrology, sediment washload, and pollutant transport. Each cycle is a separate sub-model within the SESOIL code. Most mathematical environmental simulation models may be categorized as stochastic or deterministic models. Both the stochastic and deterministic models are theoretically derived. Stochastic models incorporate the concept of probability or some other measure of uncertainty, while deterministic models describe the system in terms of cause and effect relationships. The SESOIL model employs a stochastic approach for the hydrologic and washload cycles and a deterministic approach for the pollutant transport cycle.

2.1 The Soil Compartment

In the SESOIL model, the soil compartment (or column) is a cell extending from the surface through the unsaturated zone to the upper level of the saturated soil zone, also called the aquifer

or groundwater table. While the SESOIL model estimates the pollutant mass added to the groundwater, the saturated zone is not modeled for fate and transport. The output from the SESOIL model can be used to generate input values for groundwater transport models.

In the SESOIL model, the soil compartment is treated differently by the hydrologic cycle and the pollutant cycle. In the hydrologic cycle, the whole soil column is treated as a single homogeneous compartment extending from the land surface to the water table. The pollutant cycle separates the soil column into several compartments or layers. The layers can be further separated into sublayers. Each soil layer, made of smaller sublayers, is considered to be a compartment with a set volume and the total soil column is treated as a series of interconnected layers. Each layer can receive and release pollutant to and from adjacent layers. Up to four layers can be simulated by the model and each layer can be further subdivided into 10 sublayers, which have the same soil properties as the layer in which they reside.

When the pollutant enters a layer (or sublayer), the model assumes instantaneous and uniform distribution of the chemical throughout that layer (or sublayer). The model performs mass balance calculations over each entire soil layer (or sublayer) assuming a concentration gradient is not present within a layer (or sublayer). For a given amount of chemical released, the larger the layer, the lower the calculated chemical concentration. For this reason, the SESOIL model was discretized to allow as many as three to four sublayers in each of the four possible major layers.

2.2 SESOIL Cycles

Pollutant transport and transformation in the unsaturated soil zone are complex processes affected by chemical, soil, and hydrogeological properties. In the SESOIL model, these processes are included in: (1) the hydrologic cycle to deal with moisture movement or flow through the compartment, (2) the sediment or washload cycle to deal with runoff from the soil surface, and (3) the pollutant fate cycle. The SESOIL model was developed by integrating three submodels; one to deal with each cycle. The submodels account for the specific processes associated with each cycle. The cycles and their associated processes are summarized in the following table:

SESOIL CYCLES

Hydrologic Cycle	
– Rainfall – Surface runoff – Capillary rise – Soil moisture retention (storage)	– Infiltration – Groundwater runoff (recharge) – Evapotranspiration
Sediment Cycle	
– Sediment washload (erosion due to storms)	
Pollutant Fate Cycle	
– Advection – Diffusion (air phase) – Sorption – Washload – Metal complexation – Chemical degradation/decay	– Cation exchange – Volatilization – Hydrolysis – Surface runoff – Groundwater runoff (recharge)

In the SESOIL model, the hydrologic cycle is run first, followed by the sediment cycle, and these results are used in the pollutant fate cycle. The hydrologic cycle is based on a statistical, dynamic formulation of a vertical water budget. It has been adapted to account for either yearly or monthly simulations and for moisture variations in the soil. The hydrologic cycle controls the sediment cycle, which is a theoretical monthly washload routine. The pollutant cycle simulates transport and transformation processes in three phases, which are present in the soil compartment: soil-air or gaseous phase, soil-moisture phase, and adsorbed or soil-solids phase. The sediment washload cycle is not considered in this modeling effort and is not discussed further. The description of the SESOIL sediment washload cycle is not given in this appendix and may be found in the RISKPRO user's guide (GSC 1995). The hydrologic and pollutant fate cycles are discussed briefly in the sections that follow.

2.2.1 Hydrologic Cycle

The hydrologic cycle is one-dimensional, considers vertical movement only, and focuses on the role of soil moisture (or interstitial pore water) in the soil compartment. The hydrologic cycle submodel calculates results for the hydrology of a site and passes these results to both the sediment

washload cycle and the pollutant fate cycle. The hydrologic cycle used in the SESOIL model is an adaptation of the water balance dynamics theory (Eagleson 1978). The theory can be described as a dimensionless analytical representation of an annual water balance. It is itself a model based on simplified models of interacting hydraulic processes, including terms for the climate, soil, and vegetation. These processes are coupled through statistically based modeling. The hydrologic cycle is based on the unsaturated zone water balance model (Eagleson 1978, Bonazountas and Wagner 1984) that simulates partitioning of precipitation into evapotranspiration and yield (surface and groundwater runoff). The Eagleson's model expresses the soil moisture values prior to all storms and interstorms and the deep quasi-steady soil moisture as a single effective soil moisture, the so called equilibrium soil moisture for which the inputs and outputs to the soil column are in balance.

2.2.2 Pollutant Fate Cycle

The pollutant fate cycle focuses on the various chemical transport and transformation processes that may occur in the soil. These processes are summarized in table above. The pollutant fate cycle uses calculated results from the hydrologic cycle and the sediment washload cycle (which was not considered in this model application). Information from these cycles is automatically provided to the pollutant fate cycle.

In the SESOIL model, the ultimate fate and distribution of the pollutant are controlled by the processes interrelated by the following mass balance equation. The processes are selectively employed and combined by the pollutant fate cycle based on the chemical properties and the simulation scenario specified by the user. The actual quantity or mass of pollutant taking part in any one process depends on the competition among all of the processes for available pollutant mass. Pollutant availability for participation in these processes and the pollutant rate of migration to the groundwater depend on its partitioning in the soil between the gas (soil air), dissolved (soil moisture), and solid (adsorbed to soil) phases.

The mass balance equation follows:

$$O(t-1) + I(t) = T(t) + R(t) + M(t) \qquad (1)$$

where:

O(t -1)	=	the amount of pollutant originally in the soil compartment at time *t -1* (ML^{-2})
I(t)	=	the amount of pollutant entering the soil compartment during a time step *t* (ML^{-2})
T(t)	=	the amount of pollutant transformed within the soil compartment during the time step *t* (ML^{-2})
R(t)	=	the amount of pollutant remaining in the soil compartment at time *t* (ML^{-2})
M(t)	=	the amount of pollutant migrating out of the soil compartment during the time step *t* (ML^{-2})

M and L in parentheses denote units of mass and length, respectively.

In the SESOIL model, any layer (sublayer) can receive a pollutant, store it, and export it to other subcompartments. Downward movement of the pollutant occurs only with the soil moisture, while upward movement can occur only by vapor-phase diffusion. Like the hydrologic cycle, the pollutant fate cycle is based on a mass balance equation, Equation (1), that tracks the pollutant as it moves in the soil moisture between subcompartments. Upon reaching and entering a layer or sublayer, the model assumes instantaneous uniform distribution of the pollutant throughout that layer or sublayer.

The fate of the pollutant in the soil column includes both transport and transformation processes, which depend on the chemical's partitioning among the three phases: soil air, soil moisture, and soil solids. The three phases are assumed to be in equilibrium with each other at all times, and the partitioning is a function of chemical-specific partition coefficients and rate constants. Once the concentration in one phase is known, the concentrations in the other phases can be calculated. The pollutant cycle of the SESOIL model is based on the chemical concentration in the soil water. That is, all the processes are written in terms of the pollutant concentration in soil water, and the model iterates on the soil moisture concentration until the system defined by Equation (1) balances.

REFERENCES

Bonazountas, M. and J. Wagner. 1984. *SESOIL: A Seasonal Soil Compartment Model*. Prepared by Arthur D. Little, Inc., Cambridge, Massachusetts, for the U.S. Environmental Protection Agency (EPA) Office of Toxic Substances.

Eagleson, P.S. 1978. "Climate, Soil, and Vegetation." *Water Resources Research*. 14(5): 705-776.

General Sciences Corporation. 1995. "RISKPRO's SESOIL for Windows". General Sciences Corporation, Laurel, Maryland.

APPENDIX E

LETTER REPORT FOR FTIR-27 PARKING LOT PROJECT

Tetra Tech EM Inc.
135 Main Street, Suite 1800 ♦ San Francisco, CA 94105 ♦ (415) 543-4880 ♦ FAX (415) 543-5480

June 25, 2004

Ms. Sophie Ngu
U.S. Army Corps of Engineers, Sacramento District
(CESPH-PM-H)
1325 J Street
Sacramento, California 95814-2922

Subject: **Letter Report for FTIR-27 Parking Lot Project**
Contract Number GS-10F-0076K

Dear Ms. Ngu:

This letter summarizes the activities and provides documentation of the parking lot construction at Fort Irwin National Training Center. The parking lot was constructed at Fort Irwin Installation Restoration (FTIR)-27, a former underground storage tank site, after final site investigation activities had been completed. Accordingly, this report will be included in the Remedial Investigation Report, Fort Irwin, FTIR-27. This letter (with two copies) includes a brief description of the design and construction activities supported by several attachments with additional data related to the materials, construction methods and photo documentation of completion of the project. The project schedule was as follows:

Task/Activity	Completion Date
RFP Announced to Potential Bidders: • Jaeger/Skanska • Jensen • Cooley Construction • Pavement Recycling Sys. • Granite • Pavetech • Palamar Grading and Paving	**January 13 - 22, 2004**
Award Contract to Pavement Recycling Systems	**February 11, 2004**
Coordinate with Ft. Irwin Public Works/Obtain Approval	**February 24, 2004**
Approve Parking Lot Design	**February 24, 2004**
Grading/Subbase Preparation	**February 23 - 27, 2004**
Curb Construction	**March 1 – 5, 2004**
Paving Construction	**March 8 - 12, 2004**
Paint/Striping Construction	**March 22 –26, 2004**
Complete Construction	**March 27, 2004**
Perform Final Site Walk with PRS	**May 25, 2004**

Tetra Tech let a request for proposals to seven potential contractors located locally and throughout the Barstow and Riverside areas and selected Pavement Recycling Systems (PRS) to complete the project.

Project Description: Tetra Tech specified that the FTIR-27 parking lot cover nearly all of the unpaved areas bounded by Inner Loop Road, 2nd Street, the existing parking lot for Fitness Connection, and the accompanying driveway (see Site Location Map, Attachment 1). Further, Tetra Tech designed the parking lot to complement the existing, adjacent Fitness Connection parking lot in design and access. PRS constructed the parking lot to meet the traffic rating, performance, and design standards for parking lots from the California Department of Transportation (Caltrans) asphaltic concrete paving specifications. The design included retaining several existing site features including a 12" diameter tree, two fire hydrants, and a power pole. Each feature was protected with curbing and pipe bollards as appropriate (see PRS's Final Construction Report and As-Built Drawings in Attachment 2 and photo documentation in Attachment 3). Tetra Tech reviewed the project design with Jerry Sander of Fort Irwin Public Works before approving the design, prior to construction to discuss field logistics, and after construction completion.

Grading: The existing grading at the project site sloped gently to the southeast with a ridge 1 to 2 feet higher in elevation running parallel to 2nd Street through the middle of the project site. PRS graded the project site to eliminate the high ridge and create a drainage scheme with sheet flow to the southeast draining to either of two tie-in locations along the existing Fitness Connection driveway and from there to 2nd Street. PRS's subcontractor, CHJ, Incorporated conducted compaction tests to confirm a minimum of 95% relative compaction in accordance with ASTM 1557 and the Caltran specification dictated by the traffic loading (see PRS's Final Construction Report in Attachment 2).

Curbing: PRS removed approximately 70 feet of existing concrete curbing that was part of the existing Fitness Connection parking lot and replaced the removed sections with two driveway approaches to provide access to the new parking lot. PRS also installed new curb returns as part of each access point and new protective curbing around the existing tree in the north corner of the lot.

Paving: PRS obtained 632.20 tons of ½-inch Maximum Medium, Type B asphaltic concrete from the Vulcan Materials Company (see PRS's Final Construction Report, Attachment 2) and laid it at the site with an average thickness of 3.07 inches (minimum of 2.0 inches) over the graded, compacted subbase.

Striping/Paint: PRS striped the new parking lot to create 69 parking spaces and applied paint to create various hatching to indicate areas in which parking is prohibited.

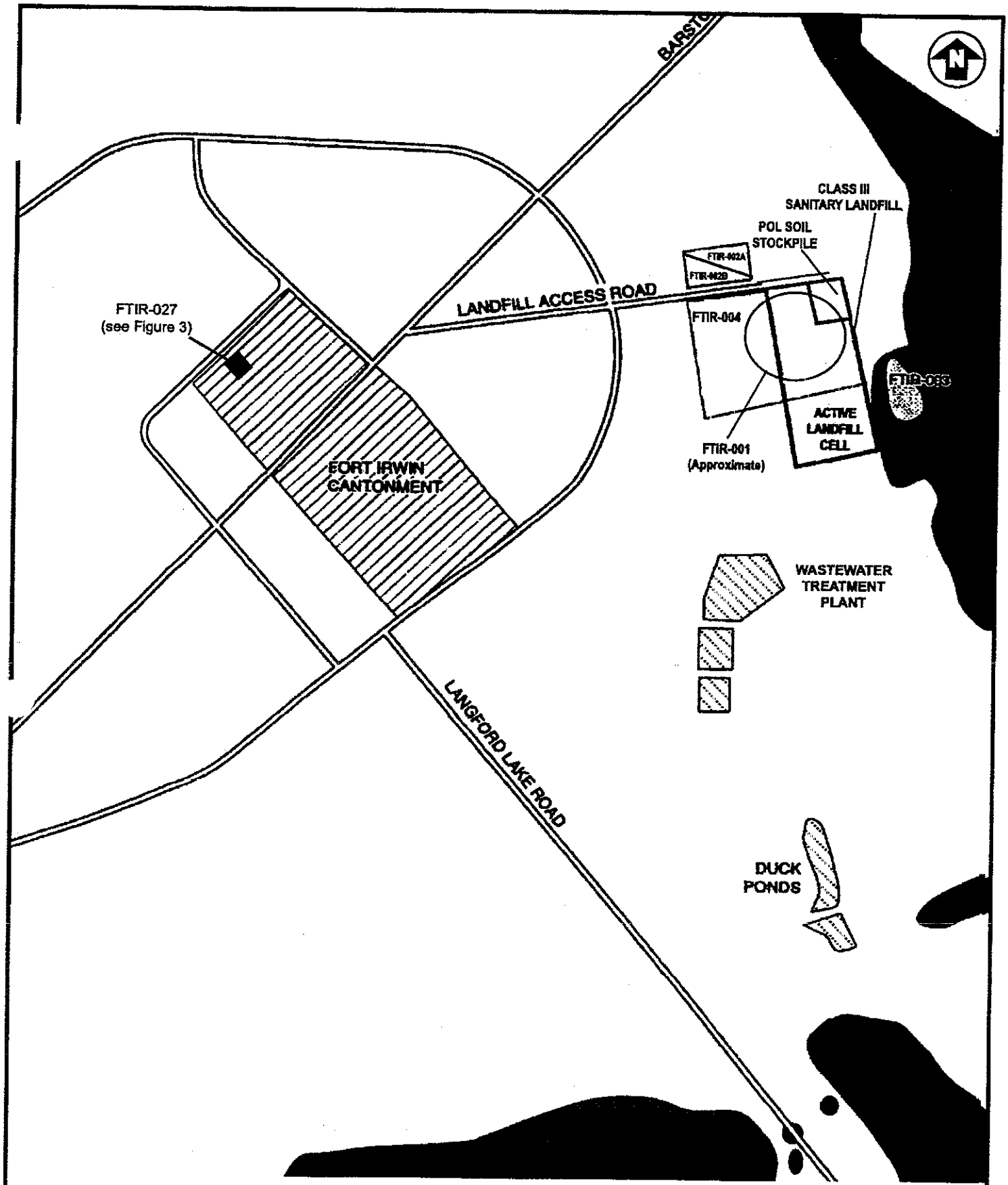
If you have any questions or comments please feel free to call me at (415) 222-8320.

Sincerely,

Tom Adkisson
Project Manager

cc: Justine Dishart, National Training Center Fort Irwin
Jerry Sander, Fort Irwin Public Works (Attachments only)
Tetra Tech file

Attachment 1
Site Location Map



LEGEND

- BEDROCK
- FT. IRWIN CANTONMENT
- SEWAGE TREATMENT PLANT AND PONDS

0 2000

SCALE: 1" = 2000'

Source: Montgomery Watson 1995

FIGURE 2

IR SITE LOCATION MAP
NATIONAL TRAINING CENTER
FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

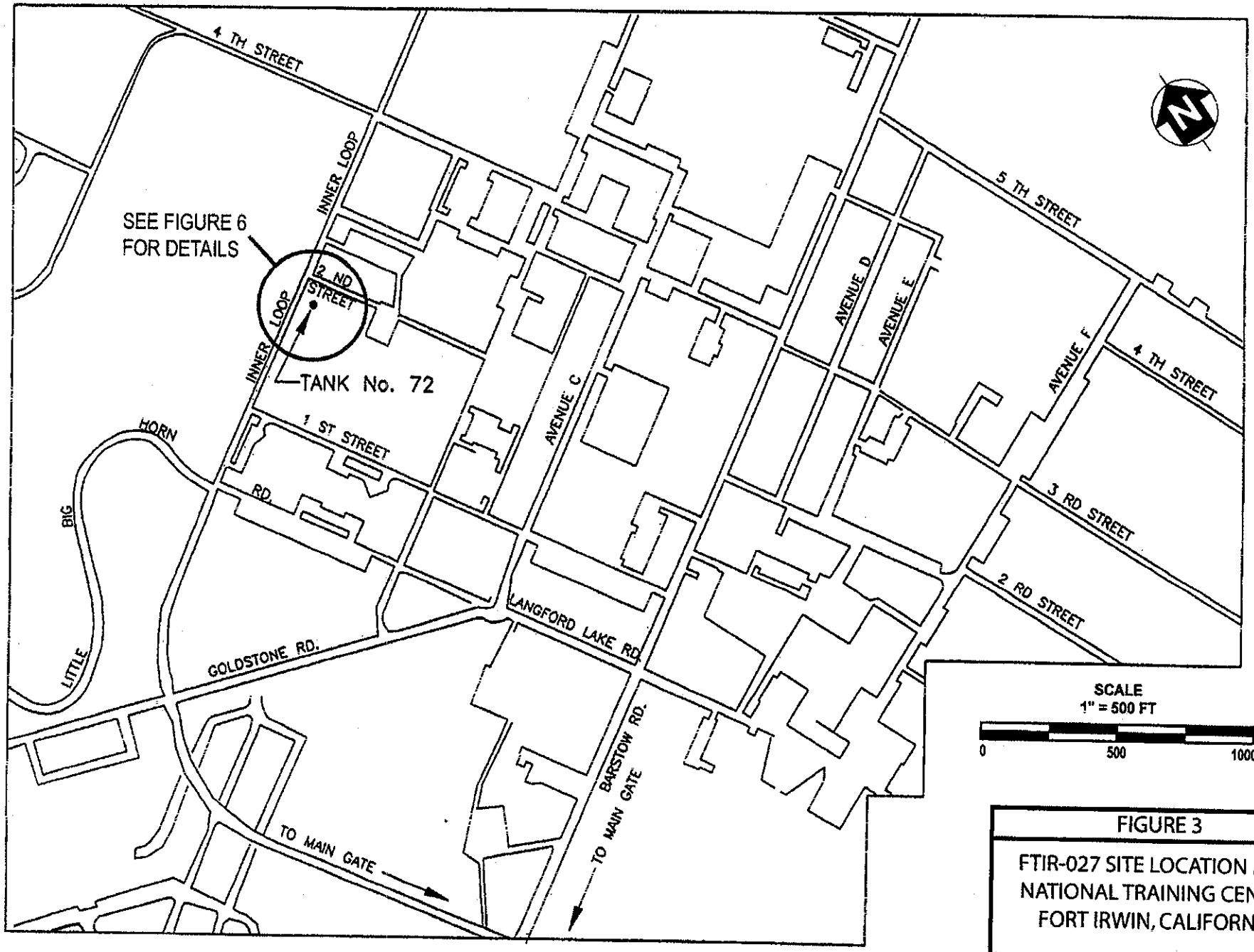


FIGURE 3

FTIR-027 SITE LOCATION MAP
NATIONAL TRAINING CENTER
FORT IRWIN, CALIFORNIA

Tetra Tech EM Inc.

Attachment 2
PRS's Final Construction Report and As–Built Drawings

Pavement Recycling Systems

RIVERSIDE MAIN BRANCH
12[illegible] MAIN STREET RIVERSIDE, CA 92501
P.O. BOX 1288, RIVERSIDE, CA 92502
(909) 682-109[illegible]
(909) 682-1394 FAX
www.pavementrecycling.com

June 18, 2004

Patrick Wooliever, PE
Tetra Tech EM, Inc.
135 Main Street
Suite 1800
San Francisco, CA 94105

Subject: ***Final Construction Report***
Fitness Center Parking Lot
FTIR-27, Fort Irwin California

Dear Mr. Wooliever,

This firm has completed the construction of the Fitness Center asphalt concrete parking lot at Fort Irwin, California. After shaping and compaction of the finish grade soils was completed by our firm, our consultant, CHJ, Incorporated, conducted compaction tests. Their report showing a minimum of 95% relative compaction in accordance with ASTM 1557 is attached. This firm then placed 632.20 tons of 1/2 inch Maximum Medium, Type B asphalt concrete meeting Caltrans standards over an area of 35,282 square feet. This equates to an average thickness of 3.07 inches. The certified weigh tickets from Vulcan Materials Company are attached.

We trust this information is sufficient for your current needs, if you have any questions feel free to contact me directly at (909) 346-1853

Sincerely,
Pavement Recycling Systems, Inc.

Donald M. Matthews,
RCE 45956
GE 2256

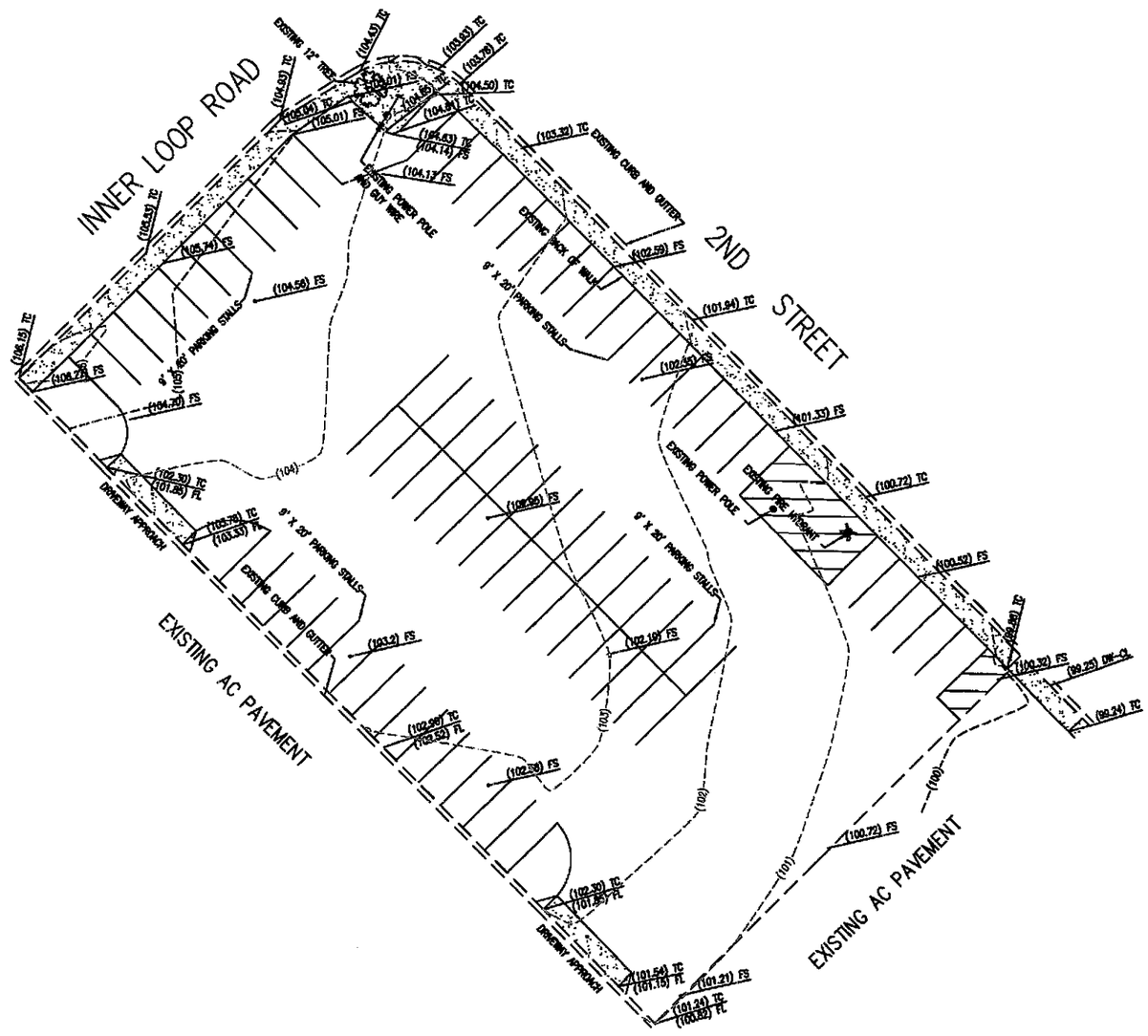
attachments

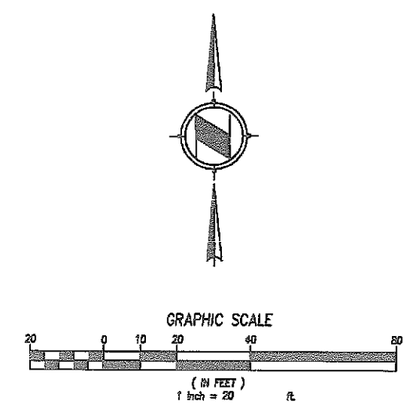
BAKERSFIELD BRANCH
2250 S. UNION
BAKERSFIELD, CA 93307
(661) 833-2280
(661) 833-2288 FAX

CA Lic. #569352 AZ Lic. #[illegible] NV Lic. #[illegible]

SAN DIEGO BRANCH
704 ROCK SPRINGS RD
ESCONDIDO, CA 92025
(760) 489-6[illegible]
(760) 489-6808 FAX

FITNESS CENTER PARKING LOT
"AS-BUILT" GRADING



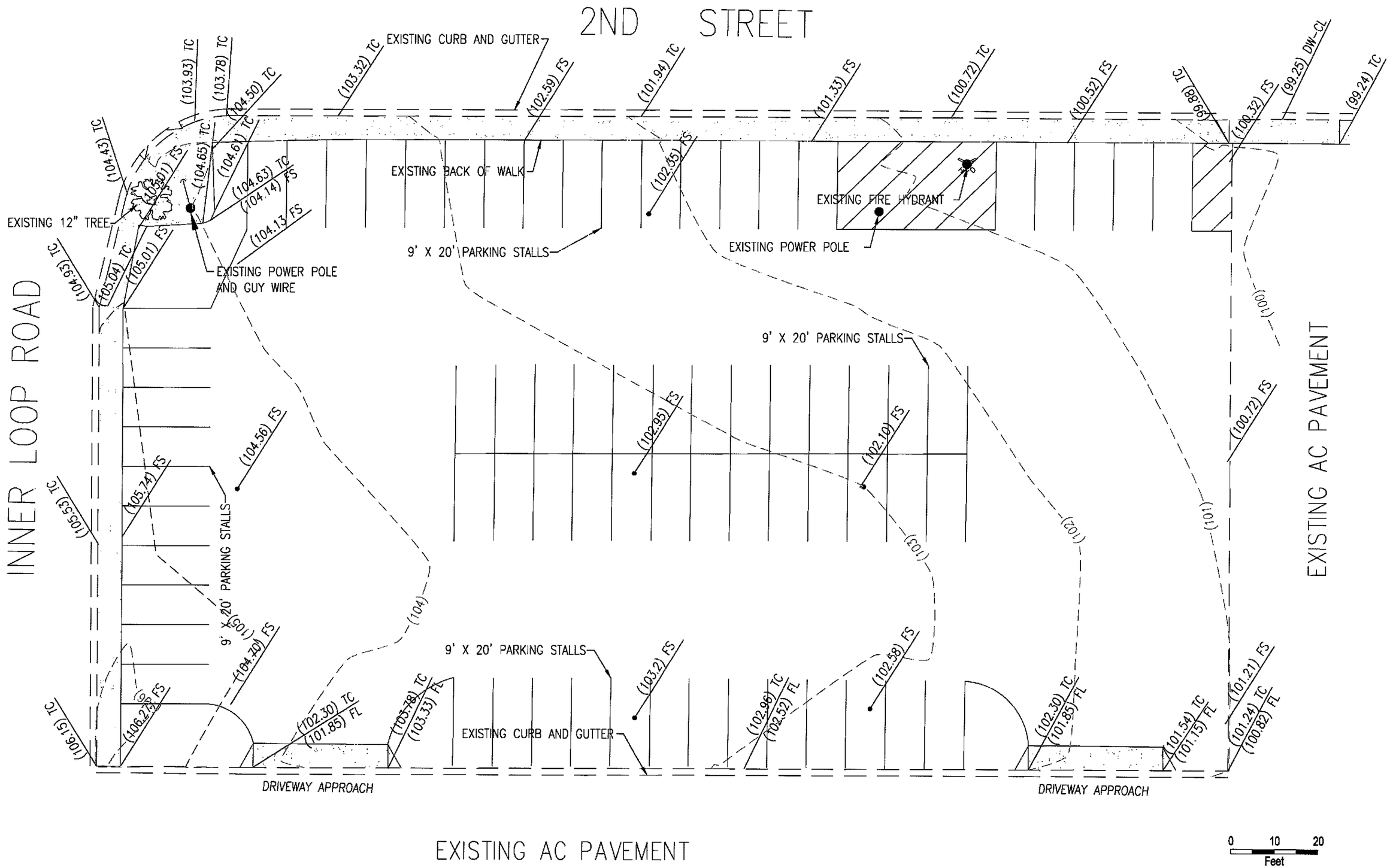


REGISTERED PROFESSIONAL ENGINEER
RAYMOND J. ALLARD
No. 38052
Exp. 6/30/2004
CIVIL
STATE OF CALIFORNIA

Allard-Miller
& Associates
Civil Engineering · Planning · Surveying
15402 W. Sixth Street #201 Victorville, CA 92392
Phone (760) 962-1106 - Fax (760) 962-1169

"AS-BUILT" PLAN
FITNESS CENTER PARKING LOT
FORT IRWIN CA.

SCALE: 1"=20'
DATE: APRIL 15, 2004
DRAWING NO:



EXISTING AC PAVEMENT

C • M • J • INCORPORATED

P.O. Box 231, Colton, CA 92324-0231 • 1365 E. Cooley Dr. Colton, CA 92324-3954 • Phone (909) 824-7210 • Fax (909) 824-7209

June 9, 2004

Pavement Recycling Systems
P.O. Box 1266
Riverside, California 92501
Attention: Mr. Don Matthews

Job No. 04210-1

Subject: Compaction Report
Parking Lot Finish Grade Tests
Fitness Center Parking Lot "C"
Fort Irwin, California

Dear Mr. Matthews:

This report covers the results of in-place density tests taken to date on the parking lot finish grade at the above subject location.

All tests were taken in coordination with and as requested by the client's representative.

FIELD PROCEDURE:

A total of five in-place density tests were taken by the nuclear method on March 10, 2004. A representative sample of the soil encountered was returned to the laboratory for determination of the optimum moisture content - maximum dry density curve.

The locations of the in-place density tests are indicated on the attached Field Compaction Test Summary Sheet and Plat.

OPTIMUM MOISTURE - MAXIMUM DENSITY RELATION:

ASTM D 1557

Soil Type	Classification	Optimum Moisture (Percent)	Maximum Dry Density (PCF)
3	Silty Sand, fine to medium with coarse and gravel to 3/4", brown (SP)	7.5	128.0

RESULTS:

The results of the in-place density tests taken to date, and the relative compaction in each case, are shown on the attached Field Compaction Test Summary Sheet.

LIMITATIONS:

C.H.J., Incorporated has striven to perform our services within the limits prescribed by our client, and in a manner consistent with the usual thoroughness and competence of reputable geotechnical engineers practicing under similar circumstances. No other representation, express or implied, and no warranty or guarantee is included or intended by virtue of the services performed or reports, opinion, documents, or otherwise supplied.

This report reflects the testing conducted on the site as the site existed during the preparation of the parking lot finish grade, which is the subject of this report. However, changes in conditions can occur with the passage of time, due to natural processes or the works of man, on this or adjacent properties. Changes in applicable or appropriate standards may also occur whether as a result of legislation, application, or the broadening of knowledge. Therefore, this report is indicative of only those

conditions tested at the time testing was performed, and the findings of this report may be invalidated fully or partially by changes outside of the control of C.H.J., Incorporated. This report should not be relied upon after a period of one year.

The test results presented herein represent an independent sample of the compaction achieved by the contractor who performed the actual compaction operation. Certain information concerning the depth and location of the parking lot finish grade tested was furnished by persons representing themselves as knowledgeable of those conditions. In many cases, independent verification of that information furnished to us by others, or the knowledge of that information by any person representing themselves as knowledgeable, is not possible. That information is relied upon during the performance of these tests.

The contractor performing the work on this project remains primarily responsible and liable for the compaction achieved at this project. Compaction testing by our firm in no way relieves the contractor from his obligation to properly perform his work, and this report does not serve as a warranty or guarantee of the contractor's work or the information supplied to us by the contractor.

The results in this report are based upon testing performed and data collected at separate locations, and interpolation between these locations, carried out for the project and the scope of services described. It is assumed and expected that the conditions between locations of tests are similar to those encountered at the individual locations where testing was performed. However, conditions between these locations may vary significantly. Should conditions be encountered in the field, by the client, any firm performing services for the client, or the client's assign, that appear different than those described herein, this firm should be contacted immediately in order that we might evaluate their effect.

If this report, or portions thereof, are provided to contractors or included in specifications, it should be understood by all parties that they are provided for information only and should be used as such.

This report and its contents are not intended or represented to be suitable for reuse on extensions or modifications of the project or for use on any other project.

Respectfully submitted,

C.H.J., INCORPORATED

James F. Cooke, Staff Engineer

Robert J. Johnson, G.E. 443
President

REGISTERED PROFESSIONAL ENGINEER
ROBERT J. JOHNSON
No. 443
Exp. 3-31-05
GEOTECHNICAL
STATE OF CALIFORNIA

FF/JFC/RJJ:kc

Enclosures: Field Compaction Test Summary Sheet
Plat

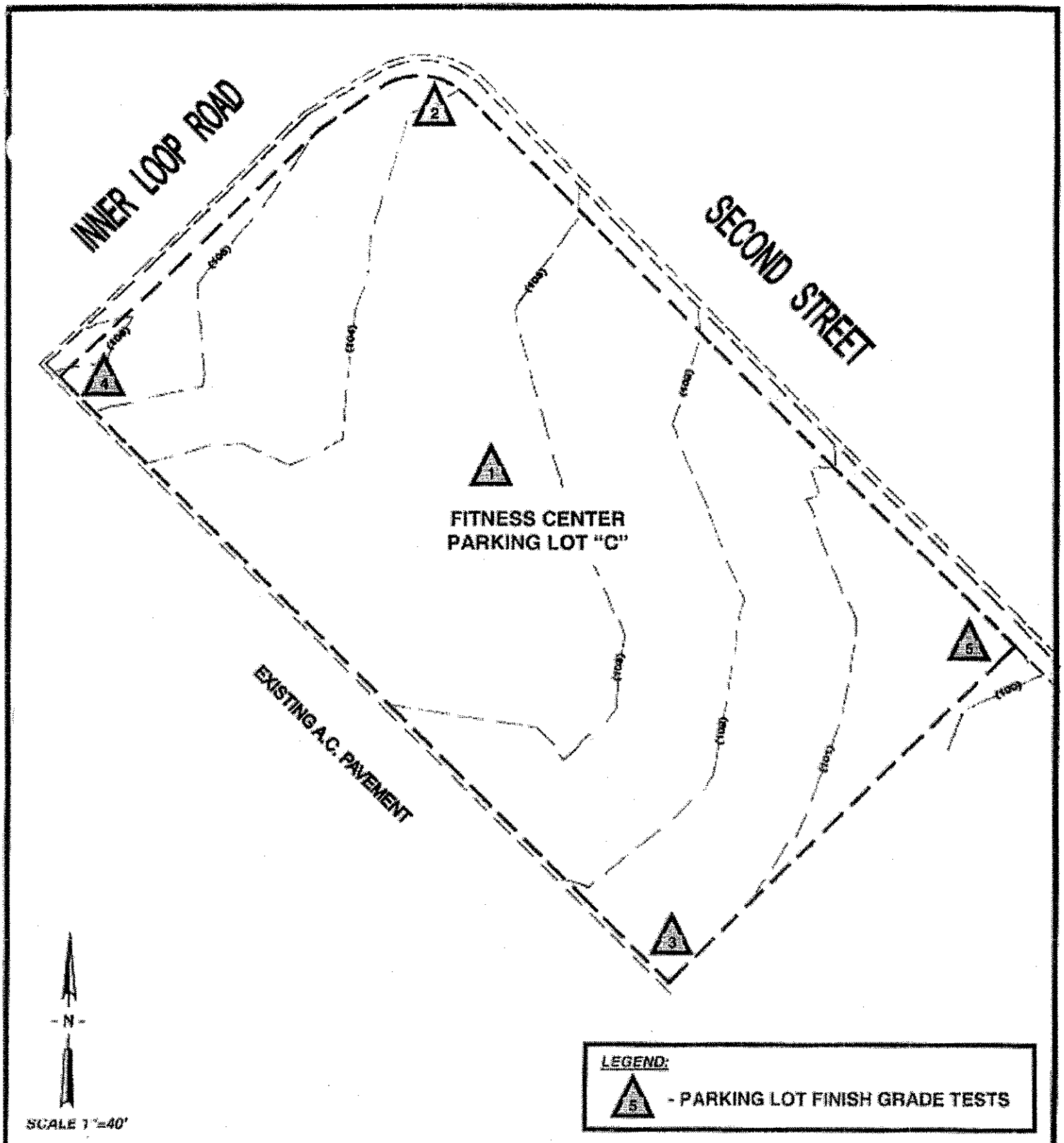
FIELD COMPACTIO[illegible] .EST SUMMARY SHEET

Job No. 04210-1
Sheet 1 of 1

PROJECT: PAVEMENT RECYCLING SYSTEMS - PARKING LOT FINISH GRADE TESTS
FITNESS CENTER, PARKING LOT "C", FORT IRWIN, CALIFORNIA

Date	Test No.	Location of Test	Depth Of Cut (ft.)	Depth Of Fill (ft.)	Depth Of Test (ft.)	DENSITIES			MC (%)	Soil Type	Remarks or Retest of
						Dry (lbs./ cu. ft.)	Max. (lbs./ cu. ft.)	Rel. (%)			
03/10/04	FG-1	Parking Lot, Center Portion			0.0-0.5	123.0	128.0	96	3.3	3	
	FG-2	Parking Lot, North Portion			0.0-0.5	126.5	131.0	97	3.5	3	10% RX
	FG-3	Parking Lot, South Portion			0.0-0.5	124.0	131.0	95	3.0	3	12% RX
	FG-4	Parking Lot, West Portion			0.0-0.5	125.5	131.0	96	2.7	3	11% RX
	FG-5	Parking Lot, East Portion			0.0-0.5	125.5	131.0	96	3.0	3	10% RX

LEGEND: (FG) Tests on Finish Grade Elevation; (Max.) Maximum; (Rel.) Relative; (MC) Moisture Content; (RX) Rock Corrected



PLAT

FOR: PAVEMENT RECYCLING SYSTEMS	PARKING LOT FINISH GRADE TESTS FITNESS CENTER PARKING LOT "C" FORT IRWIN, CALIFORNIA	ENCLOSURE
DATE: JUNE 2004		JOB NUMBER 04210-1

C.H.J. INCORPORATED

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT, FUELING, ETC. CALIF B & P CODE SECTION 12732 A & B.

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was w[illegible] measured, or caused by a weighmaster, whose signature is on the certifi[illegible] is a recognized authority of accuracy, as prescribed by Chapter 7 (com[illegible] with Section 12700) of Division 5 of the California Business and Professio[illegible] administered by the Division of Measurement Standards of the C[illegible] Department of Food and Agriculture.

CONTROL ID NO 29588 29

TRUCK NO	FLOW TYPE	TIME IN	TIME O[illegible]
43642	Y		07

PLANT	TICKET NO	DATE	ORDER NO	P.O. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	YIELD
69	[illegible]	10 [illegible]	154189	72-75	By MICHAEL DRINKO		

CUSTOMER NAME AND NUMBER: DUNCAN PAVING CORP CO

CUSTOMER'S P.O. NUMBER: PO

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible] PORT SHORN

MAP REFERENCE: 349

DELIVERY INSTRUCTIONS: [illegible]

TRUCK I.D. NO. 1	TRAILER I.D. NO.	TRAILER I.D. NO.	[illegible]
CATELLA 4329			643

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
1:20			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
DENNIS			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	[illegible]
845	ST [illegible] MM GR 4000	57.86	GROS[illegible]
		15.30	TARE
		34.51	NET
	TOTAL: 29.51 TON		TO[illegible]
			GROS[illegible]
91E	END (PER) FEE	1.00	NET
	1.00		

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

MATERIAL/ASPHALT DELIVERY TICKET

77-85 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THE VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT, FUELING, ETC. CALIF. B & P CODE SECTION 13722 A & B.

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was [illegible] measured, or counted by a weighmaster, whose signature is on this certificate, is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions [illegible] administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

CONTROL I.D. NO. 2958837

TRUCK NO.	TRUCK TYPE	TIME IN	[illegible]
[illegible]	1		[illegible]

PLANT	TICKET NO.	DATE	ORDER NO.	P.I.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	MIXES
[illegible]	[illegible]	10-MAY-[illegible]	[illegible]	[illegible]	BY MICHAEL ORTEGA		

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMER'S P.O. NUMBER: [illegible]

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

DELIVERY INSTRUCTIONS: [illegible]

MAP REFERENCE: [illegible]

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	[illegible]
[illegible]	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
9.40			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
[illegible]			

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *
[illegible]	[illegible]	[illegible]
	TOTAL 40.83 TON	MANUAL
[illegible]	[illegible]	1.00
		2.00

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT, FUELING, ETC. CALIF. B & P CODE SECTION 12720 A & B

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

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295A035

CONTROL NO

RELEASED BY

TRUCK NO.	BLDG TYPE	TIME IN	TIME OU
[illegible]	T		[illegible]

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	MILES
6	[illegible]	10-Mar-0[illegible]	154169		BY: MICHAEL ORTEGA	3	

CUSTOMER NAME AND NUMBER: [illegible] REDEVELOPMENT AGENCY

CUSTOMER'S P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible] 160[illegible]

WAP REFERENCE: [illegible]

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	SZ BY
20[illegible]	WD7605		T4

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
2155		10[illegible]	

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
5[illegible]			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
		[illegible]	GROSS
MAP	ST 1/2 RM DRAGON	14.93	TARE
		24.62	NET
	TOTAL 18.69 TON		TON
			MEGAGRAM
			GROSS
			P.T.
91F	CONTRIBUTED	1.00	NET
		1.00	

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL		
	TAX	
	TOTAL	

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS.

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT FUELING, ETC. CALIF. B & P CODE SECTION 12723 A & B

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was w[illegible] measured, or counted by a weighmaster, whose signature is on this certifica[illegible] is a recognized authority of accuracy, as prescribed by Chapter 7 (comm[illegible] with Section 12760) of Division 5 of the California Business and Professions [illegible] administered by the Division of Measurement Standards of the Co[illegible] Department of Food and Agriculture.

2958840

CONTROL I.D. NO.

TRUCK NO.	TRUCK TYPE	TIME IN	LOA[illegible]
43691	1		48

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEBITY	LOAD NO.	MILES
69	[illegible]	10-Mar-04	154160		D. MICHAEL ORTEGA	4	

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMER'S P.O. NUMBER: [illegible]

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MRP REFERENCE: [illegible]

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	"SPECIAL"
3P41219	WD 2594		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
		[illegible]	

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
ZANORA			

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
B44	[illegible]	39.[illegible]	GROS[illegible]
		15.[illegible]	TARE
		24.34	NET
	TOTAL 47.79 TON		TO[illegible]
			MANUAL W[illegible]
			GROS[illegible]
			P.T.
911	ENVIRON FEE	1.00	NET
	4.00		

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

X RECEIVED BY

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was measured, or counted by a weighmaster, whose signature is on this certificate is a recognized authority of accuracy, as prescribed by Chapter 7 (comm with Section 12700) of Division 4 of the California Business and Professions administered by the Division of Measurement Standards of the C Department of Food and Agriculture

CONTROL I.D. NO. 2958843

TRUCK NO.	TRUCK TYPE	TIME IN	TIME OUT
476513	1		[illegible]

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE
69	[illegible]	10-Mar-04	156120	

VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY: D. MICHAEL ORTEGA

LOAD NO.: 5

MILES

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMERS P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE: 749

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	[illegible]
[illegible]	1083370		LA

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
AMES			

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
815	[illegible]	[illegible]	[illegible]
	TOTAL 121.98 TON		[illegible]
91F	ENVIRON FEE	1.00	GROSS P.T. NET
	1.00		

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS.

MATERIAL/ASPHALT DELIVERY TICKET

77-85 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT, FUELING ETC. CALIF. B & P CODE SECTION 13722 A & B.

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was measured, or counted by a weighmaster whose signature is on this certificate is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code administered by the Division of Measurement Standards of the Department of Food and Agriculture.

CONTROL I.D. NO. 295884

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	TRUCK NO.	TRUCK TYPE	TIME IN
69	[illegible]	10-Mar-0[illegible]	154[illegible]		[illegible]	[illegible]	

RECEIVED BY

VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY: A. MICHAEL ORTEGA

LOAD NO.

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMERS P.O. NUMBER: [illegible]

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE

DELIVERY INSTRUCTIONS

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	[illegible]
[illegible]	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
10:[illegible]			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
STEPHENS			

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
TOTAL		

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
[illegible]	[illegible]	[illegible]	GROS
		14.7[illegible]	TARE
		25.0[illegible]	NET
	TOTAL [illegible] TON		MANUAL
[illegible]	ENVIRON FEE	1.00	GROS
			F.T.
			NET
	6.00		

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES CA 90065

* STAND-BY AND/OR DUMPING TIME WILL BE CHARGED AS EVIDENCED BY SIGNATURE. DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT FUELING ETC. CALIF. S & H CODE SECTION 12722 A & B

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following delivered commodity was measured or counted by a weighmaster, whose signature is on this certificate, is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code and regulations by the Division of Measurement Standards of the California Department of Food and Agriculture.

CONTROL I.D. NO. 295884

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

PLANT	TICKET NO.	DATE	ORDER NO.	P.O. ZONE	TRUCK NO.	CLOCK IN	TIME IN	TIME
69	[illegible]	10-Mar-04	154129		[illegible]			[illegible]

CUSTOMER NAME AND NUMBER: [illegible] CHRISTY CO

VULCAN MATERIALS COMPANY WEIGHMASTER OFFICE BY: R. MICHAEL ORTEGA

CARD NO.

MILE

CUSTOMER'S P.O. NUMBER

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

DELIVERY INSTRUCTIONS

MAP REFERENCE

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	SE/NW
[illegible]	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
[illegible]			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
[illegible]			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
[illegible]	[illegible]	[illegible]	[illegible]
B45	ST 1/2 BM HRAMSE	15.35	TARE
	TOTAL 171.05 TON	84.22	NET
			TO
			NOMINAL M
410	EMPLEON FEE	1.00	NET

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS.

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was measured or counted by a weighmaster, whose signature is on file certified with Section 12700 of Division 5 of the California Business and Professions administered by the Division of Measurement Standards of the Department of Food and Agriculture.

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	SALES ZONE	TRUCK NO.	PLUS TAX	TIME IN
69	[illegible]	10 May [illegible]	154139		[illegible]		

CONTROL I.D. NO. 295881

CUSTOMER NAME AND NUMBER: [illegible] RIVERSIDE [illegible]

VULCAN/MATERIALS COMPANY WEIGHMASTER BY: MICHAEL ORTEGA

LOAD NO.: [illegible]

CUSTOMER'S P.O. NUMBER:

JOB ADDRESS: [illegible] ROAD [illegible] TRUCK

DRIVER GROSS AND TARE: ON [X] OFF [ ]

DELIVERY INSTRUCTIONS:

MAP REFERENCE: [illegible]

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	"TEMP"
[illegible]	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
10:55			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL		
	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *
[illegible]	[illegible] HM DRAGON	[illegible]
	TOTAL 155.43 TON	[illegible]
[illegible]	[illegible] PER	[illegible]
	8.00	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGA[illegible]S.

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was we[illegible] measured, or counted by a weighmaster, whose signature is on this certificat[illegible] is a recognized authority of accuracy, as prescribed by Chapter 7 (comm[illegible] with Section 12700) of Division 5 of the California Business and Professions [illegible] administered by the Division of Measurement Standards of the Ca[illegible] Department of Food and Agriculture

CONTROL I.D. NO. 2958850

TRUCK NO.	TRUCK TYPE	TIME IN	TIME OU[illegible]
[illegible]	[illegible]		[illegible]

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	MILES
69	[illegible]	10-Mar-0[illegible]	154129		A MICHAEL ORTEGA	9	

CUSTOMER NAME AND NUMBER: [illegible] CONSTR. CO.

CUSTOMER'S P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE: [illegible]

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	[illegible]
[illegible]	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
		[illegible]	GROS[illegible]
		[illegible]	TARE
[illegible]	[illegible]	[illegible]	NET
			TON
	TOTAL [illegible] TON		MANUAL WT
			GROSS
			P.T.
[illegible]	[illegible]	[illegible]	NET
	[illegible]		

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was [illegible] is a recognized authority of accuracy, as prescribed by Chapter 7 [illegible] with Section 12700 of Division 5 of the California Business and Professions [illegible] administered by the Division of Measurement Standards of the Department of Food and Agriculture

CONTROL I.D. NO. 295885

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	P.J.C. ZONE	TRUCK NO.	TRUCK TYPE	TIME IN
69	[illegible]	10 MAY 06	154169		17551	7	[illegible]

CUSTOMER NAME AND NUMBER: [illegible]

VULCAN/MATERIALS COMPANY WEIGHMASTER DEPUTY: MICHAEL ORTEGA

LOAD NO.: 10

CUSTOMER'S P.O. NUMBER: [illegible]

ORDER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

DELIVERY INSTRUCTIONS:

MAP REFERENCE: [illegible]

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	SEW
BENNY	4C8151		89

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
RAS	5/8 MH GRADED	[illegible] 15.50 24.42	GROSS TARE NET TO MINIMUM W
	TOTAL 24.11 TON		
94F	ENVIRON FEE 10.00	1.00	GROSS P.T. NET

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

77-65 (Rev. 10/02)

Vulcan
Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

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CONTROL I.D. NO. 2958853

TRUCK NO.	TRUCK TYPE	TIME IN	TIME OU
[illegible]	1		[illegible]

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER CERTIFY	LOAD NO.	MILES
69	[illegible]	10-Mar-04	[illegible] 154120		MICHAEL ORTEGA	11	

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMERS P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE: [illegible]

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	[illegible]
[illegible]	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
11:10			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
DUBACH		[illegible]	

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *
R45	ST 1 [illegible] MM GR4000	[illegible] GROSS 15.63 TARE 24.08 NET
	TOTAL [illegible] TON	TON MANUAL WT
91F	ENVIRON FEE	GROSS F.T. [illegible] NET
	11.00	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

MATERIAL/ASPHALT DELIVERY TICKET

[illegible] (REV. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE

WEIGHMASTER CERTIFICATE

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CONTROL I.D. NO. 295885

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	DELIVERY NO.	DATE	ORDER NO.	RATE ZONE	TRUCK NO.	TRUCK TYPE	TIME IN
69	[illegible]	10-[illegible]-01	104120	72.75	1376917	1	[illegible]

TRUCKED BY: [illegible]

CUSTOMER NAME AND NUMBER: [illegible]

VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY BY: MICHAEL ORTEGA

LOAD NO.: 12

MILE...

CUSTOMER'S P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

DELIVERY INSTRUCTIONS:

MAP REFERENCE: 34...

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	SEAL NO.
6H35[illegible]	4L03[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
11:30		12:00pm	

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
LEONARD			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
845	ST. TAP MM [illegible]	39.[illegible]	GROS
		15.[illegible]	TARE
	TOTAL 291.30 TON	24.[illegible]	NET
			TOT
			WT
91[illegible]	ENVIRON FEE	1.00	ORDER P.T. NET
	12.00		

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

7-95 (Rev. 10/92)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster whose signature is on the certificate and is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

CONTROL I.D. NO. 2950857

MATERIAL/ASPHALT DELIVERY TICKET

TRUCK NO.	TRUCK TYPE	TIME IN	TIME OUT
4269	T		10

RECEIVED BY

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	VILES
69	[illegible]	10-DEC-09	34185		BY MICHAEL OREDA	13	

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMER'S P.O. NUMBER:

TIMER ORDER AND TAKE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE: 345

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	"B.P.S."
[illegible]			

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
MICK			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
815	ST 1/2 [illegible]	10.50	GROSS TARE NET
	TOTAL [illegible]		TO
815	ENVIROPAVE	1.90	GROSS TARE NET

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT, FUELING, ETC. CALIF. B & P CODE SECTION 12232 A & B

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following cesoBee commodity was measured, or counted by a weighmaster, whose signature is on this certificate, is a recognized authority of accuracy, as prescribed by Chapter 7 (com with Section 12700) of Division 8 of the California Business and Professions administered by the Bureau of Measurement Standards of the C Department of Food and Agriculture

CONTROL I.D. NO. 2958856

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	PLC ZONE	TRUCK NO.	DEX TYPE	TIME IN
29	[illegible]	10 MAY 0[illegible]	15[illegible]		[illegible]	1	

RECEIVED BY

VULCAN MATERIALS COMPANY/WESTERN DIVISION BY MICHAEL ORTEGA

LOAD NO.	MILE
14	

CUSTOMER NAME AND OWNER: [illegible]

CONTRACT & NUMBER

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

DELIVERY INSTRUCTIONS

MRF REFERENCE

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	TRUCK
[illegible]	43[illegible]		

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
BERNIS			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
[illegible]	[illegible]T LAB MIX AROUND	[illegible]	GROS
	A [illegible]	13.36	TARE
	TOTAL [illegible]	24260	NET
			TO
			MORAN
			GROS
DIF	ENVIRON FEE	1.00	D.T. NET
	14.00		

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAM

77-85 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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CONTROL I.D. NO. 29588 7

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	P.O.# ZONE	TRUCK NO.	DIST TYPE	TIME IN	TIME O
69	[illegible]	10-Mar-0[illegible]	154128		126920	1		12

SEARCHED BY	VULCAN MATERIALS COMPANY WEIGHMASTER/DEPUTY	LOAD NO.	MIX
	BY MICHAEL ORTEGA	15	

CUSTOMER NAME AND NUMBER	CUSTOMER'S P.O. NUMBER	DRIVER CROSS AND TARE
[illegible]		ON [X] OFF [ ]

JOB ADDRESS	MAP REFERENCE
[illegible]	[illegible]

DELIVERY INSTRUCTIONS

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.2	"2 IN"
2[illegible]	[illegible]		1.4

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
1:28			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
BROADHEN			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
BAS	ST 1 2 MN 4P4000	19.91 GROSS 24.79 TARE NET	
	TOTAL 364.71 TON		TH WE
91E	ENVIRON FEE	1.20 NET	ORDER P.O.
	15.00		

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL		
	TAX	
	TOTAL	

77-65 (Rev. 10/02)

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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CONTROL I.D. NO. 2958870

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

PLANT	TICKET NO.	DATE	ORDER NO.	F.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	SALES
69	[illegible]	10-Mar-0[illegible]	1341[illegible]		BY R. MICHAEL ORTEGA	16	

TRUCK NO.	FROM DEP.	TIME IN	TIME OUT
[illegible]	1		[illegible]

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMER'S P.O. NUMBER: [illegible]

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE: 34[illegible]

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.
3P4[illegible]	MD 2[illegible]		

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
ZAMORA			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
B45	ST 1/2 HMA ARAGON	39.71	GROS
		15.46	TARE
		24.25	NET T
	TOTAL 308.59 TON		MATERIAL W
			GROS
			P.T.
01F	ENVIRON FEE	1.00	NET
	16.00		

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAM

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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CONTROL I.D. NO. 2958883

TRUCK NO.	TAX TYPE	TIME IN	TIME OUT
43E90A8	1		13

PLANT	TICKET NO.	DATE	ORDER NO.	ZULU ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER OR DUTY	LOAD NO.	MILES
84	[illegible]	10-Mar-04	186128		MICHAEL ORTEGA	17	

CUSTOMER NAME AND NUMBER: [illegible] CONSTR CO

CUSTOMER P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

WAR REFERENCE: 34[illegible]

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	"PUP"
4C[illegible]	[illegible]		

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
STEPHANE			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
845	ST 1/2 BM DRAGON	14.74 / 20.26	GROS / TARE / NET
	ASPHALT 2419.19 TIR	MORNING	TR / W
931	CUSTOM FEE	1.00	GROS / TARE / NET

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAM

77-65 (Rev. 10/02) MATERIAL/ASPHALT DELIVERY TICKET

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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WEIGHMASTER CERTIFICATE

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CONTROL I.D. NO. 2958885

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	PLUS ZONE
69	[illegible]	10 Mar 09	1941-0	72-75

TRUCK NO. 498434 | MAKE TIME | TIME IN | EQ

VULCAN MATERIALS COMPANY WEIGHMASTER COUNTY AT: | LOAD NO. 10 | MILES

BY MIGUEL ORTEGA

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMER P.O. NUMBER

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS

DELIVERY INSTRUCTIONS

MAP REFERENCE

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	"X" IN
[illegible]	[illegible]		

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
2:45P			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
[illegible]			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
P45	ST [illegible] MN OR 4000	39.72 / 19.86 / 24.43	GROS / TARE / NET
	TOTAL 43.86 TON		MAIN BIL M
			GROSS / PST / NET
SHIP	ENUINOI FLE	1.00	
	10.00		

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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WEIGHMASTER CERTIFICATE

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CONTROL I.D. NO. 2958886

TRUCK NO.	TRUCK TYPE	TIME IN	TIME OU[illegible]
1 4363011	1		13[illegible]

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	MILES
69	[illegible]	30-May-0[illegible]	1541201		MICHAEL ORTEGA	19	

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMERS P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE: 34[illegible]

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	[illegible]
21[illegible]	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
3:00			
DRIVER NO.	**JOB TIME**	**DELAY TIME**	**TOTAL TRIP**

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
		39.91	GROS[illegible]
		15.6[illegible]	TARE
B[illegible]	BL 1/2 MM AR4000	24.28	NET
	TOTAL 46[illegible].88 TON		TO[illegible]
			MANUAL [illegible]
			GROS[illegible]
			P.T.
91F	ENVIRON FEE	1.00	NET
	15.00		

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

MATERIAL/ASPHALT DELIVERY TICKET

77-65 (Rev. 10/02)

Vulcan Materials Company

Western Division

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CONTROL I.D. NO. 2958887

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TRUCK NO.	DATE	ORDER NO.	P.U.S. ZONE	TRUCK NO.	BACK TEST	TIME IN

DELIVERED BY

VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY | LEAD NO. | KRS

CUSTOMER NAME AND NUMBER | CUSTOMER'S P.O. NUMBER | DRIVER ORDERS AND TAX: ON [X] OFF [ ]

JOB ADDRESS | MAP REFERENCE

DELIVERY INSTRUCTIONS

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	% TW

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
5649815		
ORDER TOTAL -		
	TAX	
	TOTAL	

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
0.1	ST 1-2 MM GRADED	39.96	GROSS
		16.52	TARE
	TOTAL ABS. % TOT	23.44	NET
31F	ENVIRON FEE	1.00	MEN
		20.00	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

77-63 (Rev. 10/02)

Vulcan
Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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CONTROL ID. NO. 2950888

MATERIAL/ASPHALT DELIVERY TICKET

TRUCK NO.	TRUCK TIP	TIME IN	TIME OUT
4 JEANIES	1		

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	MILES
69	[illegible]	19-Mar-06	154168		BY MICHAEL ORTEGA	1	

SOLD TO:

CUSTOMER NAME AND NUMBER: [illegible]

CUSTOMER'S P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible]

MAP REFERENCE: 349

DELIVERY INSTRUCTIONS:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	"EX-Yd"
9B70521	4E0553		L4

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
DUBOCH			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
845	ST 1/2 MH AIR4000	[illegible]	[illegible]
	TOTAL STORAGE FOR	[illegible]	[illegible]
01F	ENVIRON FEE	1.00	NET

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS.

77-65 (Rev. 10/02)

Vulcan
Materials Company

Western Division

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LOS ANGELES, CA 90065

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WEIGHMASTER CERTIFICATE

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CONTROL I.D. NO. 295888

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	P.U.C. ZONE	TRUCK NO.	TRUCK TYPE	TIME IN
69	[illegible]	14-MAY-09	15-16		16957	1	

RECEIVED BY X

VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY: MICHAEL ORTIZ

TOMO NO.

CUSTOMER NAME AND NUMBER: [illegible] RIVERSIDE QUARRY

CUSTOMER P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS: [illegible] LOCK [illegible] AND [illegible]

MAP REFERENCE

DELIVERY INSTRUCTIONS

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	"EX" TAX
BENNY20	[illegible]		[illegible]

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
B45	[illegible]	[illegible]	GROS
		15.35	TARE
	TOTAL [illegible] TON	[illegible]	NET
			TO
			[illegible]
			GRO
			P.[illegible]
PIF	ENVIRON FEE	1.00	MP
		.22	MP

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR ME

77-63 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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CONTROL I.D. NO 2958890

TRUCK NO | TRUCK TYPE | TARE IN | TARE OUT

RECEIVED BY

PLANT | TICKET NO. | DATE | ORDER NO. | P.U.C. ZONE 72.05 | VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY | LOAD NO | MILES

CUSTOMER NAME AND NUMBER | BY

CUSTOMER P.O. NUMBER | DRIVER GROSS AND TARE ON [X] OFF [ ]

JOB ADDRESS | MAP REFERENCE

DELIVERY INSTRUCTIONS

TRUCK I.D. NO | TRAILER I.D. NO. | TRAILER I.D. NO. | SEAL

ARRIVE JOB 3:15 | START UNLOAD 3:25 | FINISH UNLOAD | RETURN PLANT

DRIVER NO | JOB TIME | DELAY TIME | TOTAL TRIP

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	STRICKEN
HMF	ST 1/4 MM HMAC	15.0 TONS	
	TOTAL 450.24 TON	22.50 NET	
	75		TON
	133	MINIMUM	MI
910	EMULSION FEE	GROSS P.T. 1.00 NET	

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS.

MATERIAL/ASPHALT DELIVERY TICKET

77-89 (Rev. 10/02)

Vulcan
Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

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CONTROL NO. 2958894

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	P.O.#	TRUCK NO.	TRAILER	TIME IN	QUANTITY
6								

PRODUCT	VULCAN MATERIALS COMPANY WEIGHMASTER DEPUTY	LOAD NO.	MILES

CUSTOMER NAME AND NUMBER

CUSTOMER P.O. NUMBER

SEVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS

MAP REFERENCE

DELIVERY INSTRUCTIONS

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	PLTS

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	
0.5	SILICA SAND	15.00	TARE
		24.00	NET
	MEDIUM CONTRACTOR		TON
			METRIC
			BROKEN
0.5	ENVIRON FEE	1.00	NET
		25.00	

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL		
	TAX	
	TOTAL	

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

7-89 (Rev. 10/02)

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN LIGHT WEIGHT DUE TO CHANGES IN EQUIPMENT FUELING, ETC. CALIF B & P CODE SECTION 12722 A & B.

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, or caused by a weighmaster, whose signature is on this certificate, is a recognized authority of accuracy, as prescribed by Chapter 7 commencing with Section 12700 of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

CONTROL I.D. NO. 2958895

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	PROD. ZONE	TRUCK NO.	TRACTOR	TIME IN	TIME OUT
		10 May 94			4 35 90			

VULCAN MATERIALS COMPANY WEIGHMASTER OPPOSITE: RICHARD ORTEGA

LOAD NO. 25 | IDLE

CUSTOMER NAME AND NUMBER

CUSTOMER P.O. NUMBER

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS

MAP REFERENCE

DELIVERY INSTRUCTIONS

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	SCALE

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
VERNIS			

COMMENTS - REMARKS C.O.D.'S	UNIT PRICE	AMOUNT
ORDER TOTAL -		
	TAX	
TOTAL		

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	PRICE
845	9.5 1/2 MM GRADED	17.31	TRIP
	TOTAL 607.25 TON	24.58	NET
9WF	ENVIRON FEE	1.00	NET

77-66 (Rev. 10/02)

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

Vulcan Materials Company

Western Division

3200 SAN FERNANDO ROAD
LOS ANGELES, CA 90065

ALL SALES AND DELIVERIES MADE SUBJECT TO VULCAN'S GENERAL TERMS AND CONDITIONS. EXCESS STAND-BY AND/OR DUMPING TIME WILL BE CHARGED. AS EVIDENCED BY SIGNATURE, DRIVER/CARRIER IS RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT. THE DRIVER/CARRIER WILL NOTIFY SHIPPER/CONSIGNOR IF THERE IS ANY CHANGE IN TARE WEIGHT DUE TO CHANGES IN EQUIPMENT, PADDING, ETC. CALIF B & P CODE SECTION 12722 A & B.

SEE REVERSE SIDE FOR HEALTH HAZARD WARNINGS, LIMITED WARRANTY, WARRANTY DISCLAIMER AND UNLOADING RELEASE.

WEIGH-MASTER CERTIFICATE

THIS IS TO CERTIFY that the following detailed commodity was measured, or counted by a weighmaster, whose signature is overleaf, certifi is a recognized authority of accuracy, as prescribed by Chapter 7 (com with Section 12700 of Division 5 of the California Business and Professio administered by the Division of Measurement Standards of the Department of Food and Agriculture.

CONTROL I.D. NO. 2958671

MATERIAL/ASPHALT DELIVERY TICKET

PLANT	TICKET NO.	DATE	ORDER NO.	P.I.C. ZONE	TRUCK NO.	TRACTOR	TIME IN
55	[illegible]	10-Mar-07	154120		[illegible]		

CUSTOMER NAME AND NUMBER: [illegible]

VULCAN MATERIALS COMPANY WEIGH-MASTER DEPUTY: [illegible]

LOAD NO.: [illegible]

CUSTOMER P.O. NUMBER:

DRIVER GROSS AND TARE: ON [X] OFF [ ]

JOB ADDRESS:

DELIVERY INSTRUCTIONS:

MAP REFERENCE:

TRUCK I.D. NO.	TRAILER I.D. NO.	TRAILER I.D. NO.	TRAIN

ARRIVE JOB	START UNLOAD	FINISH UNLOAD	RETURN PLANT
5:19			

DRIVER NO.	JOB TIME	DELAY TIME	TOTAL TRIP
[illegible]			

PRODUCT CODE	PRODUCT DESCRIPTION	QUANTITY *	[illegible]
015	ST 1/2 HH [illegible]	14.92	TARE
	TOTAL 6.5 [illegible]	26.86	NET
			TO
			MORNING H
			ORDER
51F	RINTR(R) FL	1.00	P. T
			NET

COMMENTS - REMARKS C.O.D.'S: Left Coach

	UNIT PRICE	AMOUNT
ORDER TOTAL		
	TAX	
TOTAL		

INSPECTOR'S COPY

* ALL WEIGHED QUANTITIES IN TONS OR MEGAGRAMS

77-48 (Rev. 10/02)

Attachment 3
Project Completion Photo Documentation

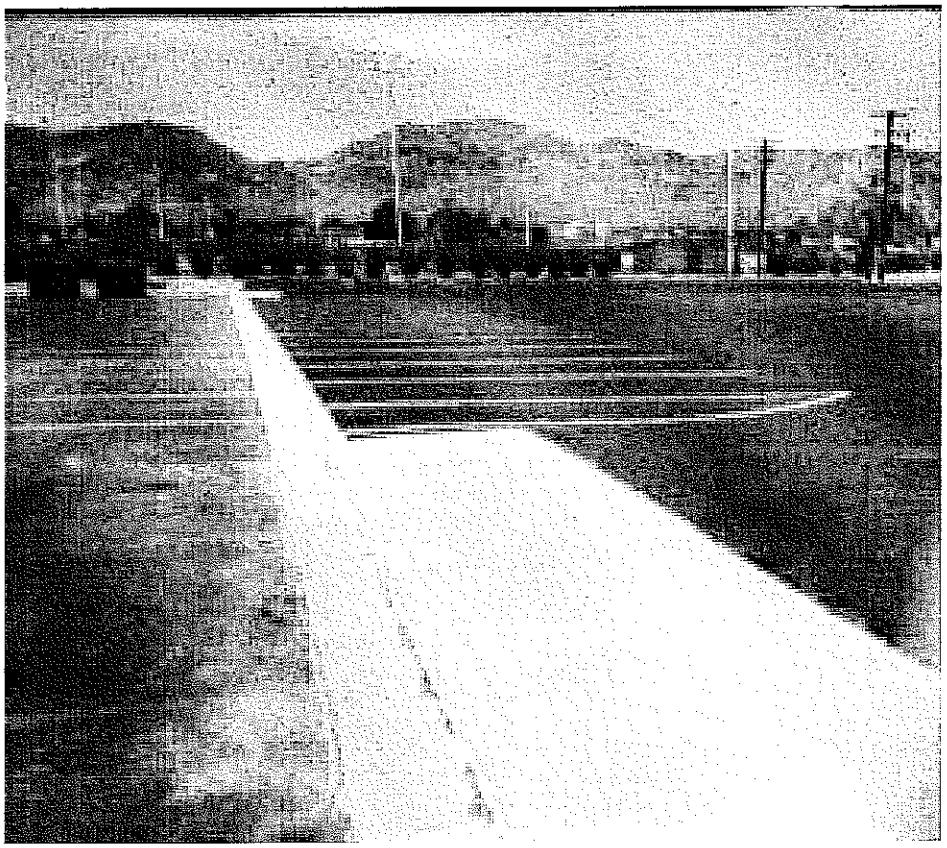

Photo 1 View approximately north from the parking lot entrance along the border between the new and the old parking lots

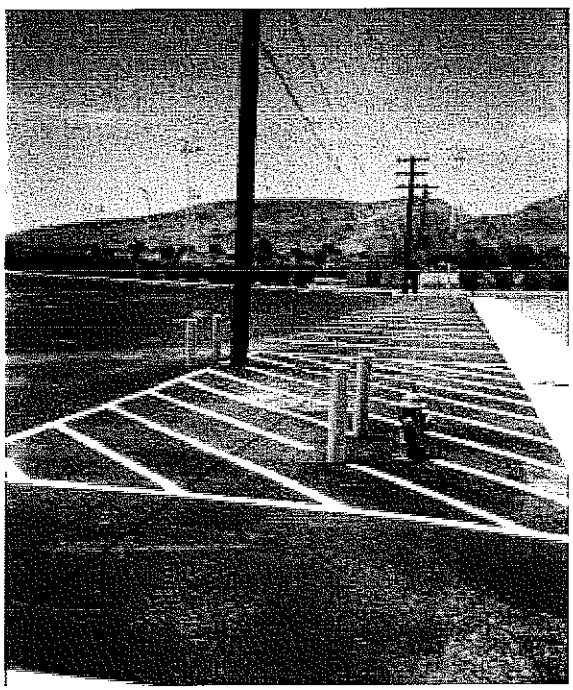

Photo 2 View of bollards protecting the existing fire hydrant and power pole

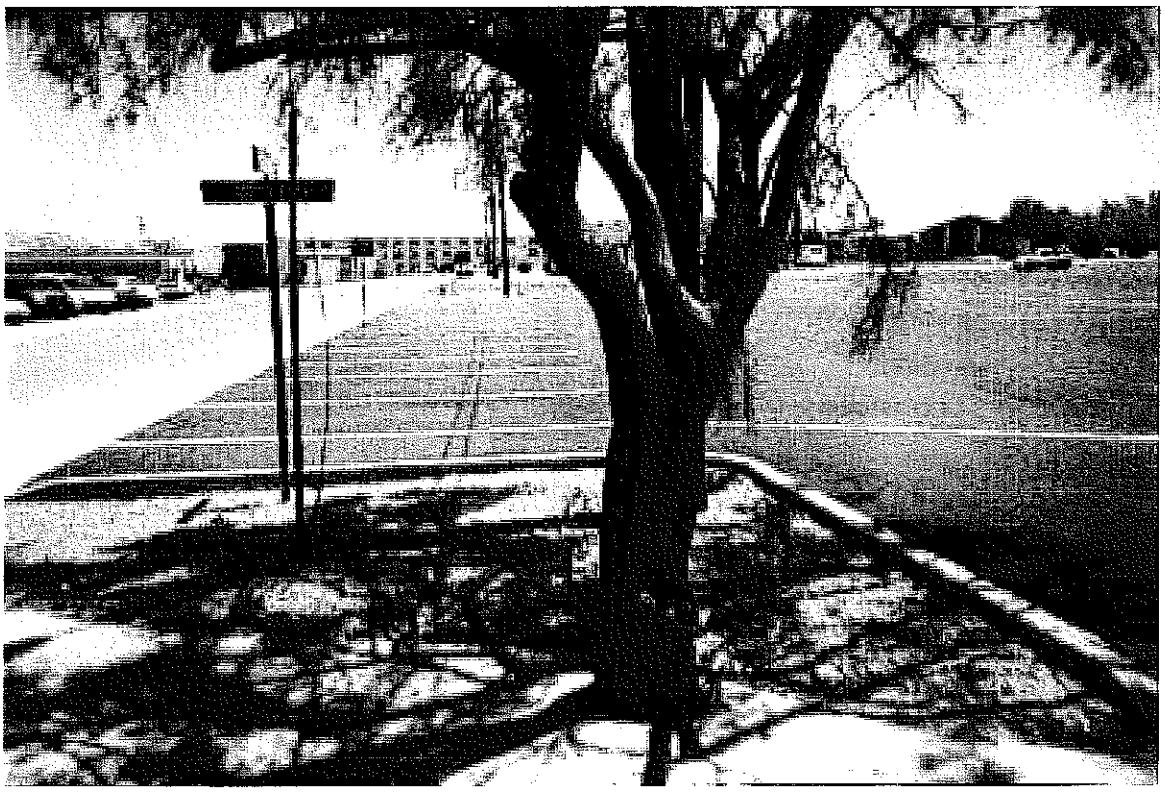

Photo 3. View of protective concrete curbing placed around existing 12" tree.

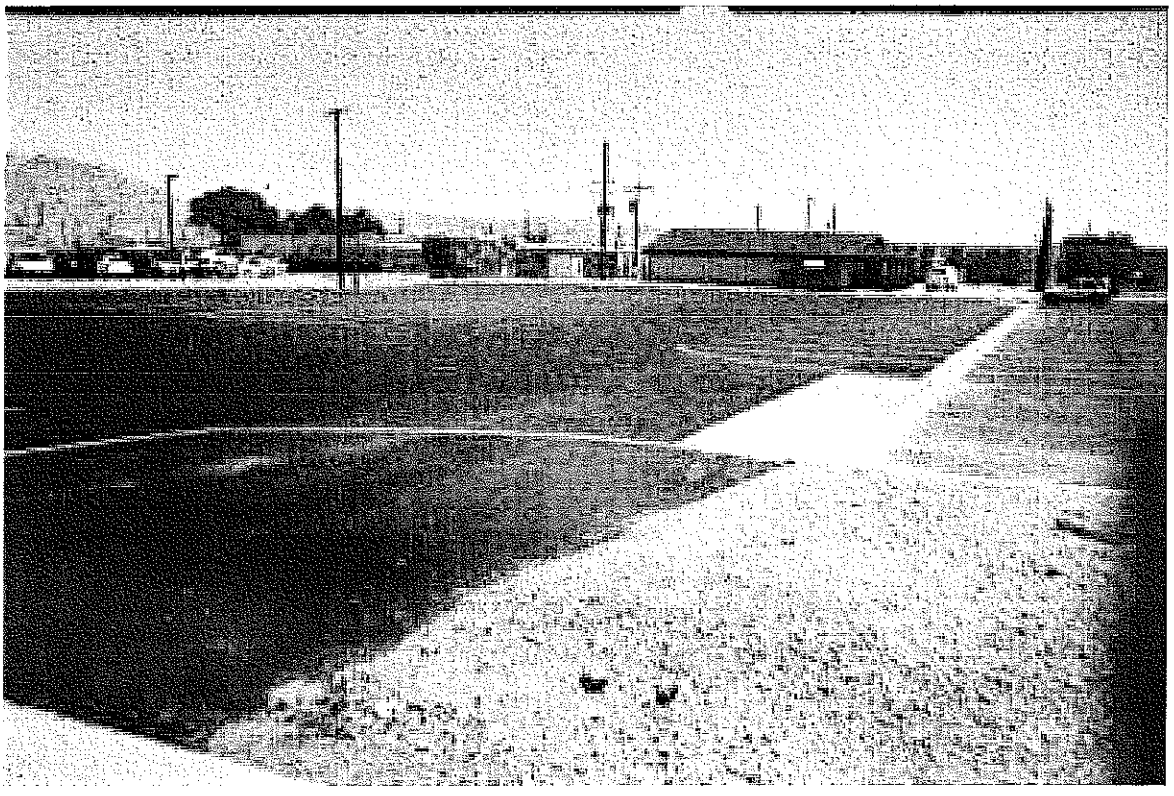

Photo 4. View of parking lot the east with driveway access in the foreground

APPENDIX F

REGULATORY COMMENTS ON DRAFT RI REPORT

Terry Tamminen
Agency Secretary
Cal/EPA

Department of Toxic Substances Control

5796 Corporate Avenue
Cypress, California 90630

Arnold Schwarzenegger
Governor

September 8, 2004

Ms. Justine Dishart
Commander NTC & Fort Irwin
Directorate of Public Works
P.O. Box 105097
Attn: AFZJ-PW-EV
Fort Irwin, California 92310-5097

COMMENTS TO THE DRAFT REMEDIAL INVESTIGATION REPORT FTIR-27, FORT IRWIN NATIONAL ARMY TRAINING CENTER, SAN BERNARDINO COUNTY, CALIFORNIA

Dear Ms. Dishart:

The Department of Toxic Substances Control (DTSC) has reviewed the above referenced report prepared by Tetra Tech EM, Inc., received by this office on July 20, 2004. DTSC has prepared comments to the Draft Remedial Investigation found in Enclosures A and B.

DTSC acknowledges the low probability of residual TPH contamination impacting the groundwater at FTIR-27 and concurs with the not further action recommendation presented.

If you have any questions or would like to arrange a meeting to further discuss FTIR-27, please feel free to contact me by phone at (714) 484-5448 or by e-mail at cplotkin@dtsc.ca.gov.

Sincerely,

Curtis P. Plotkin
Remedial Project Manager
Office of Military Facilities, Unit 'B'

Enclosures

cc: See next page.

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cc: Mr. Muhammad Bari
Environmental Division
Commander NTC & Fort Irwin
Directorate of Public Works
P.O. Box 105097
Attn: AFZJ-PW-EV, Bldg. 385
Fort Irwin, California 92310-5097

Ms. Sophie Ngu
U.S. Army Corps of Engineers
1325 J Street 12th Floor
Sacramento, California 95814-2922

Ms. Christy Hunter, R.G.
California Regional Water Quality Board,
Lahontan Region
15428 Civic Drive, Suite 100
Victorville, California 92392-2359

General Comments

1. The report was not analyzed for syntactical or grammatical errors, unless the validity of the statement is in question or the statement was confusing.

2. In general, the report was well organized and written.

Specific Comments

1. On July 8, 2003, DTSC cautioned the use of Seasonal Soil Compartment Model (SESOIL) in evaluation of the contaminant transport at site FTIR-27. DTSC suggested that other more appropriate models, commercially available, be employed for the evaluation of the site. However, Fort Irwin and the United States Corps of Engineers proceeded in the use of SESOIL to characterize the vertical transport of contaminants at the site. DTSC has the following comments:

    a. The strength of SESOIL is in its simplicity and ability to predict groundwater recharge from measured monthly or daily climatic data. The strength of SESOIL's simplicity is tempered by the following:

        i. Fort Irwin (FTIR-27) is located in an arid desert, topographically closed groundwater basin.
        ii. Annual precipitation rates as low as 4 inches per year
        iii. Daytime temperatures ranging from 100°F to 110°F, with occasional highs exceeding 125°F.
        iv. Vadose zone matric potentials in the high negative numbers
        v. Recharge from the surface, via precipitation, is scant and likely to occur at the outer edges of the basin where the alluvium is thin and aquifer closer to the surface.
        vi. SESOIL is a rudimentary 1D empirical unsaturated soil model.
        vii. Requires extensive climatic and chemical data.
        viii. Unable to generate credible results using 'raw' monthly climatic data in an arid desert environment.

2. DTSC provided the suggestion that Fort Irwin evaluate the use of HYDRUS 2D, VS2DT or other similar two dimensional model. Both these models provide for 1D and 2D analysis in a complex vadose zone. The aforementioned models are extremely flexible, and do not specifically utilize precipitation as the force to facilitate migration of contaminants vertically in the subsurface, as does SESOIL. HYDRUS 2D and VS2DT also incorporate convection-dispersion type equations for heat and solute transport (diffusion and gaseous phase migration).

3. Significant TPH contamination was noted in borings at 45.5 feet below ground surface (bgs) and also minor TPH contamination noted at 66.6 feet bgs. DTSC believes in constructing the model layers such that layer 2 should have extended to the base of contamination at 66.6 feet bgs.

Terry Tamminen
Agency Secretary
Cal/EPA

Department of Toxic Substances Control

1011 North Grandview Avenue
Glendale, California 91201

Arnold Schwarzenegger
Governor

MEMORANDUM

TO : Curtis Plotkin
Project Manager
Office of Military Facilities, Cypress

FROM : Richard L. Coffman, Ph.D., RG
Senior Engineering Geologist
Site Mitigation Program, Geological Services Unit, Glendale

CONCUR : Craig Christmann, RG
Senior Engineering Geologist
Site Mitigation Program, Geological Services Unit, Glendale

DATE : August 31, 2004

SUBJECT: Review of Draft Remedial Investigation Report at Fort Irwin Installation Restoration Site 27 (FTIR-27), National Training Center Fort Irwin, San Bernardino County, California

PCA 14740 Site Code 400063-47 Log No. 20043028

The Geological Services Unit (GSU) was requested to review and provide comments on the July 15, 2004 Draft Remedial Investigation Report at Fort Irwin Installation Restoration Site 27 (FTIR-27), National Training Center Fort Irwin, San Bernardino County, California. This remedial investigation (RI) report was prepared by Tetra Tech EM Inc. for the U.S. Army Corps of Engineers, Sacramento District. The site is currently a fenced vacant lot near the center of the Cantonment area at National Training Center (NTC) Fort Irwin, and was the former location of a 10,000-gallon, underground concrete vault (Tank 72) that reportedly contained Bunker C fuel oil. The vault was removed in January 1994, and in March 1994, 1,800 tons of petroleum hydrocarbon contaminated soil was excavated from beneath and around the former vault to an average depth of about 15 feet below ground surface (bgs).

Activities associated with this RI included the advancement of three borings ranging in depth from 35.5 feet bgs to 66.5 feet bgs. Each of those borings were within the footprint of the former vault. Soil samples collected from the borings indicated the presence of total petroleum hydrocarbons (TPH), predominantly in the diesel and motor oil range, along with minor concentrations of semi-volatile and volatile organic

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compounds (SVOCs and VOCs). Soil samples were also analyzed for physical parameters including total soil porosity, bulk density, permeability, hydraulic conductivity, and total organic carbon (TOC). Data from those analyses were used as input values for the Seasonal Soil Compartment Model (SESOIL) vadose zone fate and transport model, which was used to estimate whether the remaining TPH contamination would be likely to impact groundwater beneath the site. According to the SESOIL modeling results, none of the TPH, VOCs, or SVOCs would reach the water table within the next 300 years.

Geological Services Unit staff has the following comments regarding the RI report.

GENERAL COMMENTS

- The GSU is of the opinion that either the USGS model VS2DT, or the USDA model Hydrus--2D would have been more appropriate to use than SESOIL. SESOIL is a 1 dimensional compartment balance model that is typically used as a screening tool to assess potential groundwater contamination. However, VS2DT is a 2 dimensional, finite difference model for analysis of variably saturated flow and solute transport in a porous media, while Hydrus-2D is a 2 dimensional, finite element model for analysis of water flow and solute transport in variably saturated porous media.

SPECIFIC COMMENTS

- Section 6.1, SESOIL Fate and Transport Model Inputs and Assumptions, pg. 6-1 According to the first assumption listed under <u>Contamination Inputs and Assumptions</u>, "The depth of residual TPH contamination was set at 40 feet bgs based on the zone of contamination being defined by previous investigations and the current RI investigation." The GSU questions using the 40 feet as the bottom of contamination since according to information in the RI report, one of the original borings beneath the vault (FT00-2702) was reported to contain elevated concentrations of TPH-motor oil range (6,900 mg/kg), TPH-Bunker C (3,200 mg/kg), and TPH-diesel (1,000 mg/kg) at a depth of 45.6 feet bgs. In addition, boring 27-2003-B01 (also in the vicinity of the former vault) had minor TPH detects down to a depth of 66.5 feet bgs. The GSU is of the opinion that layer two should have been extended down to the base of any detectable concentrations. In addition, the GSU generally recommends that at least two consecutive sets of samples, at five-foot intervals, have non-detects reported in them to reliably delineate the base of contamination.
- Appendix A, Soil Boring Logs: Only three boring logs (27-2003-B01, -B02, & -B03) are presented in Appendix A, even though according to section 2.3.6 (Site-Specific Geology and Hydrogeology) a total of 15 borings were advanced at the site. The GSU notes that if borings were advanced, they should have been logged and a copy of all borings logs related to the site investigation should have been included in the report.

In conclusion, although the GSU would have preferred that either VS2DT or Hydrus-2D be used to more accurately assess the potential threat to groundwater, the GSU does acknowledge that it is unlikely that the residual TPH contamination present in the vadose zone, as reported, will be transported the necessary vertical distance (between 100 and 300 feet bgs) to reach groundwater. This is primarily because the main force that drives contaminant migration at this site is precipitation and downward percolation, which is extremely low in the Fort Irwin area. However, the GSU notes that it is still unclear exactly how deep TPH-impacted soil actually extends beneath the former vault area, and that the presence of deeper TPH-impacted soil could modify the model output and reduce the time required for contamination to reach groundwater.

Any questions regarding the information provided in this memorandum, should be directed to Richard Coffman at (818) 551-2175 or via e-mail at rcoffman@dtsc.ca.gov.