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FINAL SITE 19B AND 20B SITE INVESTIGATION FOR OUTLYING LANDING FIELD BARIN

NAS WHITING FIELD FL

2/1/1993

ABB ENVIRONMENTAL

SITE 19B, FORMER HANGAR MAINTENANCE AREA AND SITE 20B, ABANDONED UNDERGROUND STORAGE TANK AND FUEL PIT AREA SITE INVESTIGATION REPORT OUTLYING LANDING FIELD (OLF) BARIN FOLEY, ALABAMA

CONTRACT TASK ORDER NO. 070
NAVY CLEAN - DISTRICT I
CONTRACT NO. N62467-89-D-0317

FEBRUARY 1993

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON, SOUTH CAROLINA
29419-9010

PRINTED ON RECYCLED PAPER

SITE SCREENING REPORT

SITE 19B, FORMER HANGER MAINTENANCE AREA, AND SITE 20B, ABANDONED UNDERGROUND STORAGE TANKS AND FUEL PIT AREA

OUTLYING LANDING FIELD (OLF) BARIN
FOLEY, ALABAMA

Contract No. N62467-89-D-0317
Contract Task Order No. 070

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EXECUTIVE SUMMARY

A site screening was conducted at the Outlying Landing Field (OLF) Barin in Foley, Alabama, in response to six separate notice of violations (NOVs) of Underground Storage Tanks (USTs) issued by the Alabama Department of Environment Management (ADEM). The NOVs, dated May 6, 1992, were issued due to elevated levels of Total Petroleum Hydrocarbons (ranging from 2 to 4,2000 parts per million [ppm]) that were detected in soil samples collected during underground storage tank (UST) removals in December 1991 and January 1992.

The purpose of the site screening was to confirm the laboratory analytical results obtained during the UST removal operations; and to determine whether the Navy's Installation Restoration (IR) sites (Site 19B, Former Hangar Maintenance Area and Site 20B, Abandoned Underground Storage Tanks and Fuel Pit Area), where the UST removal operations took place, would be further investigated and remediated under the Navy's IR program or the Navy's UST program.

The site screening field program was conducted at Sites 19B and 20B between November 9, 1992 and November 14, 1992. The field program included completion of 20 hollow-stem auger soil borings, collection and laboratory analysis of 46 subsurface soil samples, and collection and laboratory analysis of 5 groundwater samples. All samples were analyzed in accordance with NEESA Level E Data Quality Objectives (DQOs).

All soil samples collected at the sites 19B and 20B, were analyzed of Target compound list (TCL) volatile organic compounds and Target analyte List (TAL) inorganics. In addition, selected samples were analyzed for TCL semivolatile organic compounds (SVOCs), TCL pesticides and PCBs and cyanide.

All groundwater samples collected were analyzed for TCL volatile organic compounds (VOCs). However, similar to the soil analytical schedule above, selected samples were analyzed for TCL SVOCs, TCL pesticides and PCBs, total and dissolved TAL inorganic parameters, total cyanide, total dissolved solids and total suspended solids.

The findings of the site screening at OLF Barin indicated:

- Numerous inorganic analytes were detected in the soil samples collected from potential source area locations at the sites. However, none of the analytes were found to exceed background soil concentrations by greater than a factor of three. These concentrations may be attributable to natural deviations within the soil matrix.

- Four VOCs including methylene chloride, acetone, 2-butanone, and total xylene were detected in the soil samples. Both methylene chloride and acetone are believed to represent laboratory artifacts. The concentrations of 2-butanone and total xylene were detected below contract required detection limits (CRDLs) and therefore are not of concern.

- Pesticide and SVOCs were detected in soil borings associated with some UST locations. These compounds are believed to represent site conditions, however, it is not conclusively known if the pesticide

concentrations are related specifically to former operations at Sites 19B and 20B.

- Groundwater samples recovered at the sites were not reported to contain any contaminants exceeding Alabama Primary or Secondary Drinking Water Standards or Federal Primary Drinking Water Standard Maximum Contaminant Levels (MCLs).

- A comparison of the soil analytical results of this investigation with analytical results for soil samples collected during the UST removal indicate similar detected concentrations of lead. The elevated total petroleum hydrocarbon concentrations reported during the UST removal are believed to be represented by the numerous SVOC compounds detected during the site screening.

In conclusion, the concentrations of SVOCs, and pesticides in onsite soils warrant additional investigation. The nature of the contaminants detected and the absence of compounds typically associated with petroleum hydrocarbon contamination would seem to indicate that additional investigation should remain with the Navy's IR program.

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
ADEM	Alabama Department of Environmental Management
APDWS	Alabama Primary Drinking Water Standards
AVGAS	aviation gasoline
ASDWS	Alabama Secondary Drinking Water Standards
AWQC	Ambient Water Quality Criteria
bls	below land surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLEAN	Comprehensive Long-Term Environmental Action, Navy
CLP	Contract Laboratory Program
cm/sec	centimeter per second
COP	Caucus Organic Protocol
CRDLs	contract required detection limits
CTO	Contract Task Order
DQOs	data quality objectives
FID	flame ionization detector
ft/ft	feet per feet
GC/MS	gas chromatograph/mass spectrometry
MCL	maximum contaminant level
mg/kg	milligrams per kilograms
mg/ℓ	milligrams per liter
μg/ℓ	micrograms per liter
NAS	Naval Air Station
NDI	nondestructive inspection
NEESA	Naval Energy and Environmental Support Activity
NOVs	Notice of Violations
OLF	Outlying Landing Field
OVA	organic vapor analyzer
PA	Preliminary Assessment
PCBs	polychlorinated biphenyls
ppm	parts per million
QA	quality assurance
QC	quality control
RI/FS	Remedial Investigation/Feasibility Study

GLOSSARY (continued)

SAP	Sampling and Analysis Plan
SI	Site Inspection
SOP	Standard Operating Procedure
SOUTHNAVFAC-ENGCOM	Southern Division, Naval Facilities Engineering Command
SVOCs	semivolatile organic compounds
TAL	target analyte list
TCL	target compound list
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOCs	volatile organic compounds
WWII	World War II

1.0 INTRODUCTION

ABB Environmental Services, Inc., (ABB-ES) under contract to the Department of the Navy, Southern Division, Naval Facilities Engineering Command (SOUTHNAVFAC-ENGCOM), has conducted a Site Screening Investigation at Site 19B, The Former Hangar Maintenance Area and Site 20B, The Abandoned Underground Storage Tank (UST) and Fuel Pit Area, located at the Outlying Landing Field (OLF) Barin, Foley, Alabama. The site screening was conducted under the Comprehensive Long-Term Environmental Action, Navy (CLEAN) Contract Number N62467-89-D-0317, Contract Task Order (CTO) Number 70.

This report of the Site Screening presents Site 19B and 20B descriptions, histories and the results of previous investigations, summarizes the field and analytical methods employed during the project, transmits the data, summarizes the analytical results, and provides conclusions of the site screening field investigation.

1.1 PURPOSE AND BACKGROUND. The purpose of the site screening is to confirm laboratory analytical results (Analytical Technologies, Inc. 1991) obtained during the previous UST removal operations at Sites 19B and 20B; and to determine whether the two sites will be further investigated and remediated under the Installation Restoration (IR) program or the UST program.

The site screening was conducted in response to six separate Notice of Violations (NOVs) of USTs (NOVs designated by tank numbers 1221-A, 1221-B, 1222-A, 1231, 1235-B, and 1233 and 1234) issued to the Navy OLF Barin by the Alabama Department of Environmental Management (ADEM). The NOVs, dated May 6, 1992, were issued by ADEM because elevated levels of total petroleum hydrocarbons (ranging from 2 to 4,200 parts per million [ppm]) were detected in soil samples collected during UST removals in December 1991 and January 1992. Upon removal of the USTs, excavated soil from the removal operation was reportedly backfilled into the excavated pit formerly occupied by the USTs. The contamination status of the backfilled soil was not known.

1.2 SCOPE. The scope of the site screening at Sites 19B and 20B included the following:

- collection of subsurface soil samples including both potential source area and background locations,
- collection of groundwater samples from previously installed shallow monitoring wells,
- laboratory analysis of all soil samples for target compound list (TCL) volatile organic compounds (VOCs) and target analyte list (TAL) inorganics,
- laboratory analysis of selected soil samples were also analyzed for TCL semivolatile compounds (SVOCs), and TCL pesticides and polychlorinated biphenyls (PCBs),

- laboratory analysis of all groundwater samples for TCL VOCs and analysis of selected samples for TCL SVOCs, TCL pesticides and PCBs, TAL inorganics, total dissolved solids, and total suspended solids, and

- data assessment report preparation.

The reviewing sections of this report detail site description, background, investigative methods and results of the analytical program completed for the site screening.

2.0 SITE-SPECIFIC DESCRIPTION, HISTORY, AND PREVIOUS INVESTIGATIONS

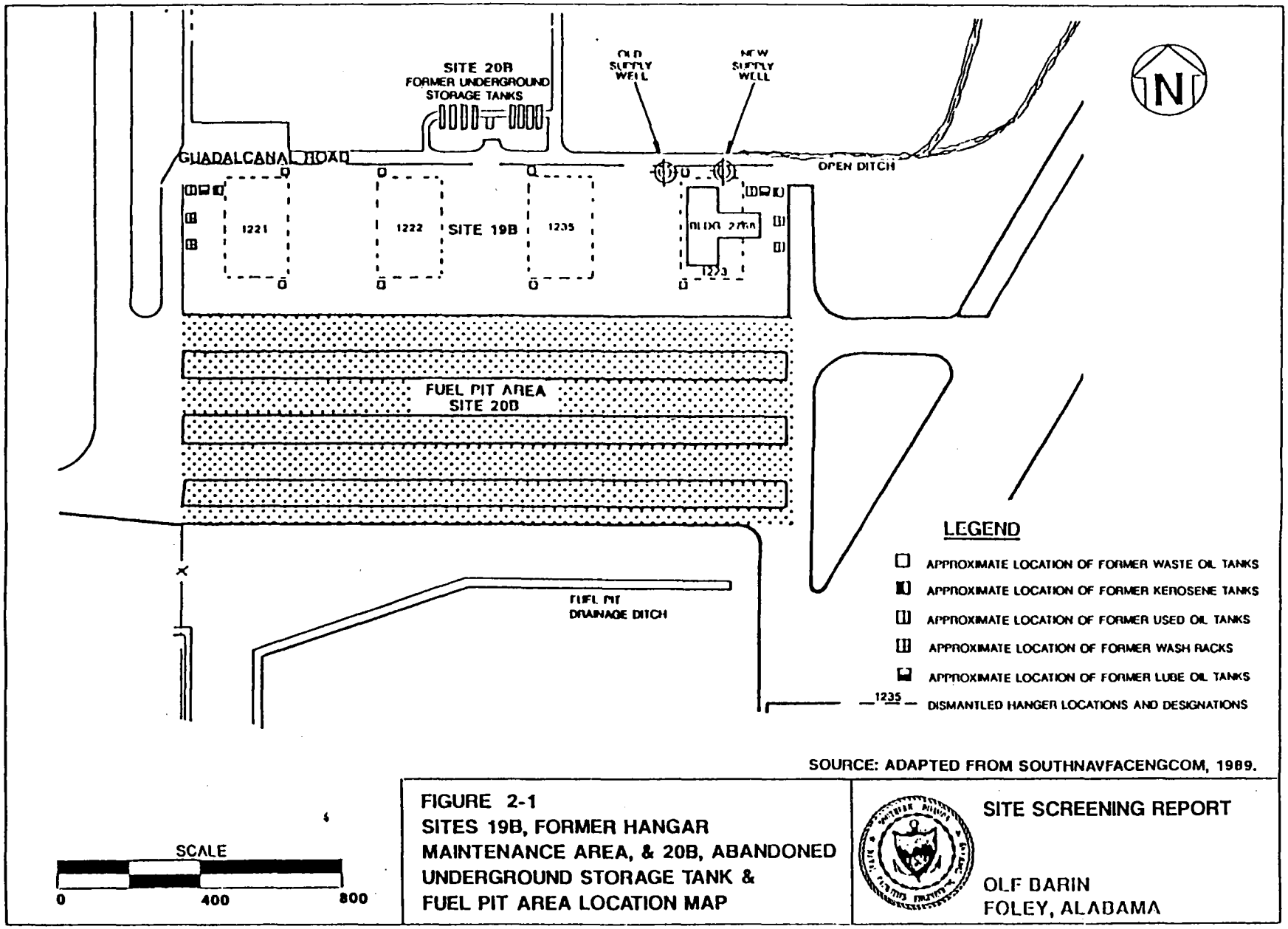
2.1 SITE DESCRIPTION AND HISTORY. Site 19B, The Former Hangar Maintenance Area, and Site 20B, The Abandoned Underground Storage Tank and Fuel Pit Area, are interconnected and overlapping sites located at the OLF Barin facility. The sites are interconnected because Site 20B has buried fuel supply lines connecting the UST area to the fuel pit distribution area which traverse Site 19B. The geographical relationship of the two sites is shown on Figure 2-1. For the purposes of this report, separate descriptions and histories of each site have been prepared. However, due to the nature of the previous work completed at these sites, Section 2.2, Previous Investigations and History, has been written to include both sites in a single narrative.

2.1.1 Site 19B, Former Hangar Maintenance Area Site 19B encompasses an area previously occupied by four large aircraft maintenance hangers (Figures 2-1 and 2-2) and having dimensions of approximately 400 feet by 1,700 feet (15.6 acres). These hangars (former building numbers 1221, 1222, 1223, and 1235) were built during World War II (WWII) for the purpose of aircraft maintenance. They were used during periods of active flying operations until 1959 when the installation was deactivated and aboveground structures demolished. Currently, Buildings 2768 and 3029 occupy the site of former Hangar 1223. The existing buildings were built in 1985 to house the emergency equipment and crash crew operations and storage areas. According to the OLF Barin fire chief, 63 full-time personnel provide 24-hour emergency services for Naval Air Station (NAS) Whiting Field flight operations involving OLF Barin. NAS Whiting Field flight operations are limited to practice landings and take-off maneuvers for pilot training in prop engine airplanes.

As reported in the Preliminary Assessment (PA) (Naval Energy and Environmental Support Activity [NEESA], 1989), maintenance shops were located at the northern end of each hangar area. Maintenance operations likely included cleaning and degreasing of aircraft and aircraft parts, corrosion control, inspection, and testing.

Between 1942 and 1959, the Site 19B hangars were periodically used for aircraft maintenance. The periods of activity mainly occurred during WWII and the Korean Conflict. Numerous types of solvents, oils, and fuels were reportedly used by maintenance personnel in these operations. Toluene, carbon tetrachloride, trichloroethene, tetrachloroethene, and trichloroethane as well as petroleum distillates were among the solvents likely used by maintenance personnel. The specific solvents used have not been documented; however, the above solvents were those generally used for aircraft maintenance during the time period. In addition, it is unknown whether corrosion control (painting) operations, nondestructive inspection (NDI) operations, or storage battery service occurred in the hangars. If so, wastes containing metals could have been used at the site. NDI operations would have involved the use of degreasers and X-ray-opaque salts such as barium. Battery rework may have involved electrolytes containing lead or dry cells containing nickel, cadmium, or mercury. The use rate of these materials is unknown.

As a result of past flight and aircraft maintenance operations, 19 USTs existed at OLF Barin. Table 2-1 presents the construction materials and the size of all 19 USTs at OLF Barin. Ten of the tanks (Tank Numbers 1221-A, 1221-B, 1221-C,

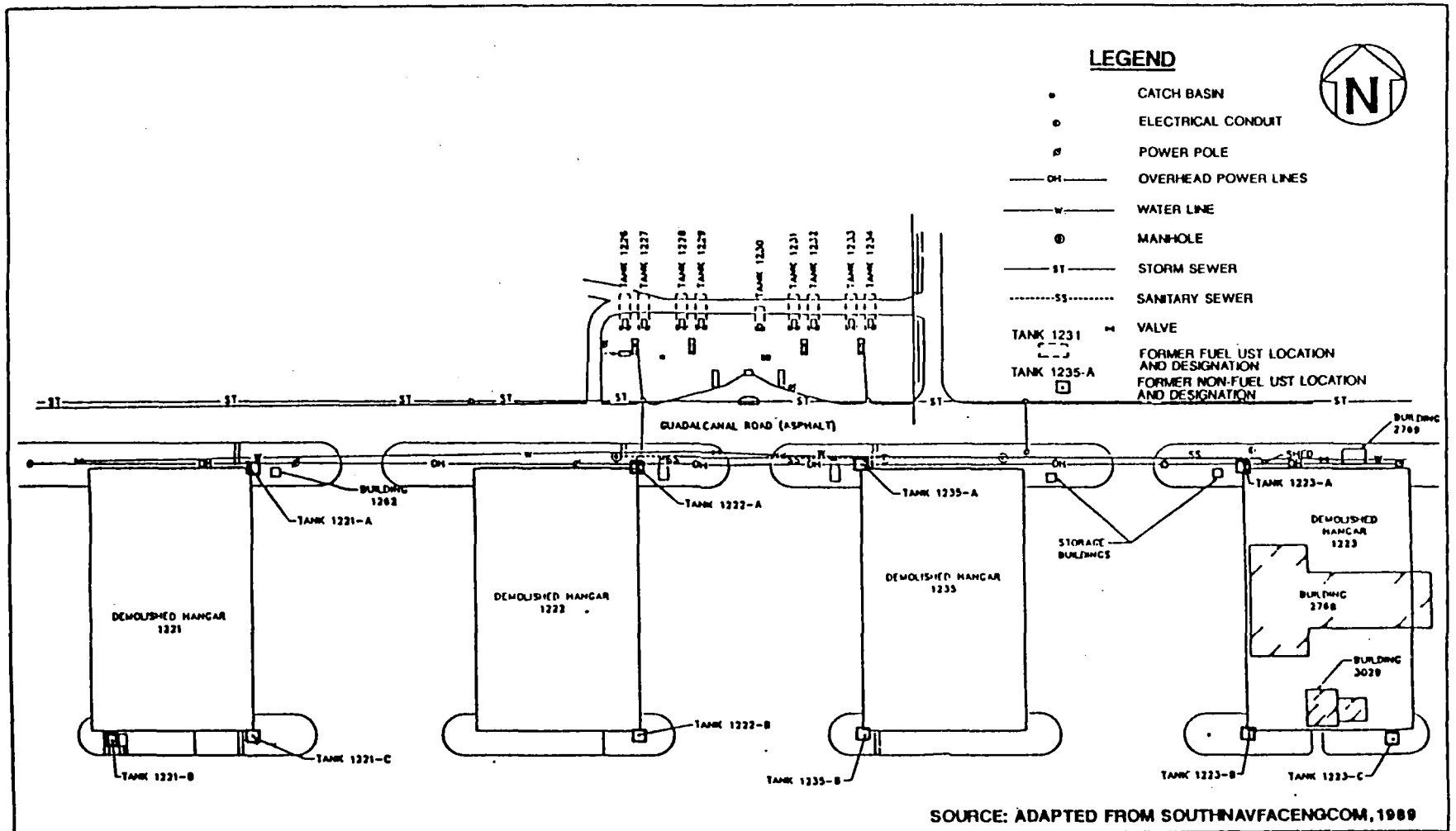


SOURCE: ADAPTED FROM SOUTHNAVFACENGCOM, 1989.

FIGURE 2-1
SITES 19B, FORMER HANGAR MAINTENANCE AREA, & 20B, ABANDONED UNDERGROUND STORAGE TANK & FUEL PIT AREA LOCATION MAP

SITE SCREENING REPORT

OLF BARIN
FOLEY, ALABAMA



SOURCE: ADAPTED FROM SOUTHNAVFACENGCOM, 1989

FIGURE 2-2
SITES 19B AND 20B
FORMER UST LOCATION MAP

SITE SCREENING REPORT

OLF BARIN
FOLEY, ALABAMA

Table 2-1
Specifications of Former Underground Storage Tanks (UST)

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Navy Tank No.	Tank Capacity (gallons)	Material of Construction	Tank Diameter (inches)	Tank Length (feet)	Cover Over Tank	Depth of Cover (inches)	Tank Contents at Removal	Depth of Fluid (inches)		Volume of Contents In Tank (gallons)		Estimated Material Excavated (cy) During Tank Removal
								Product	Water	Product	Water	
1226	25,000	Steel	126	39	Concrete vault and soil	54	Water with gasoline sheen	<1/8	126	N/A	25,000	[1]656
1227	25,000	Steel	126	39	Concrete vault and soil	54	Water with gasoline sheen	<1/8	126	N/A	25,000	
1228	25,000	Steel	126	39	Concrete vault and soil	54	Water with gasoline sheen	<1/8	126	N/A	25,000	[1]656
1229	25,000	Steel	126	39	Concrete vault and soil	54	Water with gasoline sheen	<1/8	126	N/A	25,000	
1230	15,000	Steel	120	39	Concrete vault and soil	52	Water with gasoline sheen	<1/8	3	N/A	120	183
1231	25,000	Steel	126	39	Concrete vault and soil	52	Water with gasoline sheen	<1/8	126	N/A	25,000	[1]656
1232	25,000	Steel	126	39	Concrete vault and soil	52	Water with gasoline sheen	<1/8	126	N/A	25,000	
1233	25,000	Steel	126	39	Concrete vault and soil	52	Water with gasoline sheen	<1/8	126	N/A	25,000	[1]656
1234	25,000	Concrete	[2]48 x 36	8.0	Concrete manway and soil	52	Water with gasoline sheen	<1/8	126	N/A	25,000	
1221-A	720	Concrete	[2]48 x 24	3.0	Concrete manway and soil	24	Water with fuel oil sheen	<1/8	[3]56	N/A	740	23
1221-B	175	Concrete	[2]48 x 36	8.0	Concrete manway and soil	19	Water with gasoline sheen	<1/8	10	N/A	40	11
1221-C	720	Concrete	[2]48 x 36	8.0	Concrete manway and soil	24	Soil[4]	N/A	N/A	N/A	N/A	26
1222-A	720	Concrete	[2]48 x 36	8.0	Concrete manway and soil	24	Water with fuel oil sheen	<1/8	[3]54	N/A	740	23
1222-B	720	Concrete	[2]48 x 36	8.0	Concrete manway and soil	24	Soil[4]	N/A	N/A	N/A	N/A	26
1235-A	720	Concrete	[2]48 x 36	8.0	Concrete manway and soil	24	Water with fuel oil sheen	<1/8	48	N/A	720	23
1235-B	720	Concrete	[2]48 x 36	8.0	Concrete manway and soil	24	Water with fuel oil sheen	<1/8	[3]61	N/A	750	23
1223-A	720	Concrete	[2]48 x 36	8.0	Concrete manway and soil	24	Water with fuel oil sheen	<1/8	47	N/A	700	23
1223-B	720	Concrete	[2]48 x 36	8.0	Concrete manway and soil	24	Soil[4]	N/A	N/A	N/A	N/A	26
1223-C	375	Concrete	[2]48 x 36	4.0	Concrete manway and soil	24	Soil[4]	N/A	N/A	N/A	N/A	17

[1] Two underground storage tanks were located within one tank pit.
[2] Tanks were square concrete vaults (depth x width).
[3] Depth of each tank was 48 inches. The water level extended up into the manway, thus giving a depth of water greater than 48 inches.
[4] Each of these tanks are filled, to the top of the manway, with soil.

Note: Actual contents and the volume of the tanks contents are based on information obtained in the field. Actual contents and volume of contents may vary from those indicated above at the time of the tank removal project.
cy = cubic yards.
N/A = not applicable.

1222-A, 1222-B, 1235-A, 1235-B, 1223-A, 1223-B, and 1223-C) were associated with the maintenance hangers located at Site 19B. The aircraft maintained at the site required oil changes every 40 hours of flying time. The waste oils were put into underground waste oil tanks at the north and south ends of each hangar (Figure 2-2). When the tanks were full, the wastes were reportedly pumped out by local contractors and transported off base (NEESA, 1989). The total waste oil storage capacity at Site 19B was 6,310 gallons, based on the volumes of former tanks 1221A through 1235B as presented in Table 2-1. This amount of material would have been handled many times during the operational history.

In addition, until the mid-1970's or later, halogenated and non-halogenated solvents and other flammable materials were routinely commingled with waste oils for disposal. Additional materials likely handled include: aliphatic and aromatic hydrocarbons, aviation gasoline (AVGAS) (containing tetraethyl lead), kerosene, lubrication oils, and hydraulic fluids. The quantities released through spills or leaks are unknown.

Aircraft formerly were washed with kerosene at wash racks located at the east and west end of the hangars. The wash racks were reportedly connected to an oil-water separator designed to collect the kerosene and water run-off. The recovered kerosene was stored in three tanks located at each wash rack. The size of the tanks connected to the wash racks is unknown. The hangars were reportedly flanked on the east and west by used oil, lubrication oil, and kerosene tanks (NEESA, 1989). The specific use of each tank does not appear in the SOUTHNAVFAC-ENGCOM 1991 inventory. Kerosene use for washing airplanes was discontinued in the early 1950's because it left a slippery residue on the wings and fuselage.

The Former Hangar Maintenance Area is adjacent to grassy, non-paved areas to the east, west, and north along Guadalcanal Road. Any solvents, oils, or fuels spilled onto the concrete in these areas would be washed into the soil by either stormwater runoff or rinsing of the hardstand (airplane parking area).

<u>2.1.2 Site 20B, Abandoned Underground Storage Tanks and Fuel Pit Area</u> Site 20B consists of the abandoned aircraft fuel storage and dispensing facility at OLF Barin. Figure 2-1 shows the relationship of the site and its layout on the north and south sides of the Former Hangar Maintenance Area. The fuels system consisted of an aquafarm-type system installed in the 1940's and operated during the WWII period until 1947 and again in the 1950's until the installation was placed on inactive status in 1959. In an aquafarm system, AVGAS is stored in underground tanks and dispensed by displacement with water. To pump fuel, water flows into the bottom of the tanks, displacing fuel which flows out the top. When the tanks were refilled with AVGAS, water stored in the tanks was pumped to waste via the storm sewer along Guadalcanal Road. Unknown quantities of water were discharged via this route. As shown on Figure 2-1, Site 20B comprises an area of 19.8 acres and includes the 1-acre fuel USTs (USTs removed in January 1992) and pumping system area and the 18.8-acre hardstand area where the fueling pits are located.

The former UST area, a reported 60 abandoned fuel pits, and 2.15 miles of underground fuel lines comprise Site 20B. All of the pits and lines are reportedly still in place and their integrity is unknown. Table 2-1 summarizes the details of fuel storage tank construction and status prior to removal. Facility drawings incorporated in the PA showed fuel lines running under Guadalcanal Road and Site 19B to dispense fuel via four rows of fuel pits. The

lines from the aquafarm system reportedly ran west of Hangar 1222 and east of Hangar 1235. Based on the tank diameters tabulated in Table 2-1 and depth of cover, the invert of the 25,000 gallon USTs can be estimated as 15 feet below land surface (bls), which is near the water table.

Nine underground tanks were used during operation of OLF Barin as storage for AVGAS during WWII, and AVGAS or jet fuel during the 1950's. Prior to removal, eight of the underground tanks (25,000-gallon capacity each) were being used as water storage reservoirs for fire protection. The remaining tank (15,000-gallon capacity) was empty. There is no information available on procedures followed to abandon these facilities when the field was deactivated in 1959. During the tank reactivation for water storage in the mid-1980's and during the PA visit, an oily sheen and residue were noted on the water in these tanks.

According to the PA report, a 2,000-gallon aviation fuel spill occurred in 1954 when vandals opened a release valve on one of the underground 25,000-gallon fuel tanks. Most of the fuel reportedly migrated to an unlined drainage ditch along the north side of Guadalcanal Road. Due to the permeable nature of the soils at OLF Barin, it is likely that at least some of the fuel migrated through the soil to the water table, which lies between 15 and 20 feet bls.

2.2 PREVIOUS INVESTIGATIONS. A previous Site Inspection (SI) field investigation, including Sites 19B and 20B, was conducted by ABB-ES at the OLF Barin facility during 1990 and 1991 (ABB-ES, 1991). The SI included a hydrogeologic assessment based on installation of eight soil borings and monitoring wells, estimation of aquifer properties by means of in-situ aquifer testing, field screening of subsurface soils for the presence of VOCs, field analysis of pH and specific conductance, and sampling of groundwater, surface water, and sediment for laboratory analysis of the TCL and TAL chemicals. Samples were not recovered from USTs, or surface soil locations.

During the SI field investigation, field screening methods for detecting soil contamination, including visual inspection for soil staining and organic vapor analyzer (OVA) screening, indicated no evidence of contamination.

Lithologic descriptions recorded by the onsite geologist indicated sediments at Site 19B consist of layers of unconsolidated silty sands with interspersed silts and clay. The water table was encountered at depths ranging from 15 to 20 feet bls at Site 19B. Onsite monitoring wells WHF-20B-1 through WHF-20B-5 are screened across the water table, whereas WHF-19B-1D through WHF-19B-3D, located south of sites 19B and 20B, monitor the water table aquifer at a depth of 90 to 100 feet bls. Groundwater elevation measurements recorded at the facility on June 12, 1990, indicated a groundwater flow direction from the north-northwest to the south-southeast across the site at a gradient of 2.26×10^{-4} feet per feet (ft/ft). The hydraulic conductivity in the upper part of the aquifer was 7.93×10^{-3} centimeters per second (cm/sec).

Analytical Results. Groundwater samples collected from the Site 19B and 20B monitoring wells were analyzed for TCL VOCs, SVOCs, pesticides, PCBs, and TAL inorganics including cyanide. A summary of the analytical results for the groundwater samples are presented in Table 2-2.

Metals. Eleven metals were detected in the eight groundwater samples. These metals included: aluminum, calcium, iron, potassium, magnesium, and sodium,

Table 2-2
Summary of Groundwater Quality Data from June 13 and 14, 1990, Sampling Event

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Compounds	Concentrations Detected in Sample Numbers:								
	WHF-19B-1D	WHF-19B-2D	WHF-19B-3D	WHF-19B-3D	WHF-20B-1	WHF-20B-2	WHF-20B-3	WHF-20B-4	WHF-20B-5
Total Phenols (mg/ℓ)									
Total phenols	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Total Metals (mg/ℓ)									
Aluminum	<0.5<	<0.5	0.8	0.8	1.1	3.3	1.0	1.8	<0.5
Calcium	14	2.8	7.1	7.2	4	7.4	2.4	6.2	1.8
Iron	0.19	0.36	0.2	0.19	0.31	0.65	0.35	2	0.22
Mercury	0.0007	<0.0005	<0.0005	<0.0005	0.0058	0.0059	<0.005	<0.000	<0.0005
Potassium	7.1	4.1	17	18	0.8	0.7	1.5	<0.6	<0.6
Magnesium	0.38	0.18	0.22	0.23	0.45	0.77	0.49	0.91	0.5
Sodium	12	9	7.3	8.1	1.6	1.3	0.9	0.9	2.5
Antimony	0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	0.005	0.007	<0.004	<0.004	<0.004	0.007	<0.004	0.03	<0.004
Arsenic	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	<0.0002	0.0003	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	0.001	<0.0002
Volatile Organic Compounds (μg/ℓ)									
Toluene	<1	<1	<1	<1	<2	<1	<1	<1	<1
Acetone	[1]30	[2]<130	[2]<130	[2]<130	[2]<130	[2]<130	[2]<130	[1]44	[2]<130
2-Butanone	[1]43	113	[1]<60	[2]60	[2]60	[2]60	[2]60	[1]5	[2]60
Vinyl acetate	<2	6	<2	<2	<2	<2	<2	<2	<2

[1] Concentration is estimated due to being less than 10 times the concentration in the method blanks.
[2] Analyte is undetected; however, due to contamination in the method blanks the reported detection limit is elevated to account for inability to discriminate positive results that are less than 10 times the detection limit from potential blank contamination.

Notes: All total cyanide, semivolatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs) samples were below detection limits.
mg/ℓ = milligrams per liter.
μg/ℓ = micrograms per liter.

which, although listed in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) TAL for inorganics, also are major-ion constituents of natural surface waters and groundwater. Iron was detected at levels in excess of the Alabama secondary drinking water maximum contaminant level (MCL) of 0.3 milligram per liter (mg/ℓ). The distribution of these metals do not suggest a site-related release or exhibit an upgradient-downgradient pattern. The presence of iron at concentrations in excess of the secondary MCL is expected to occur naturally in shallow groundwater in silty or clayey sands of the type underlying OLF Barin. Other metals detected were lead, arsenic, antimony, cadmium, and mercury. Soils naturally contain varying concentrations of all of the TAL metals. These metals are present in an aquifer partially as dissolved metal ions, as precipitates sorbed to the aquifer solids particles, or as components of the chemical structure of the aquifer solids.

Lead was detected in samples from 90 to 100 foot zone monitoring wells WHF-19B-1D and WHF-19B-2D at concentrations of 0.005 mg/ℓ and 0.007 mg/ℓ, respectively. It was also detected in samples from the station water supply well at 0.004 mg/ℓ in 1988 and at the time of the SI groundwater sampling event. The Alabama and Federal MCLs for lead are 0.02 mg/ℓ and 0.05 mg/ℓ, respectively. Lead at 0.03 mg/ℓ in a sample from well WHF-20B-4, downgradient of Site 19B and the fuel pit area of Site 20B, violated the Alabama primary drinking water MCL.
Mercury was observed in samples from two water-table-depth monitoring wells upgradient of Site 19B (WHF-20B-1 and WHF-20B-2). The concentrations of 0.0058 and 0.0059 mg/ℓ exceed Alabama and Federal drinking water MCLs (0.002 mg/ℓ). Mercury is used in pressure measuring instruments, batteries, as a pigment, and as a fungicide. It could be expected to result from operations that occurred at Site 19B. It is not a component of AVGAS.

Because of the flat gradient and high hydraulic conductivity, groundwater flow at the facility may be highly sensitive to the pumping of the supply well (see Figure 2-1). The presence of mercury in Site 19B monitoring wells may indicate migration from off-site sources. It was reported in the PA that Baldwin County operated a landfill that existed to the west of the former OLF Barin west field (NEESA, 1989). Also, non-flightline maintenance activities of power and heat generation (using fossil fuels) occurred in the former "administrative area" north of monitoring wells WHF-20B-01 and WHF-20B-02. The observed mercury may, therefore, result from a source farther to the north. Based on topographic considerations, any releases from the county landfill would be more likely to migrate toward Wolf Creek rather than toward the present OLF Barin property. Further, given that mercury occurs naturally at low concentrations in some soils and that groundwater samples were analyzed for total rather than dissolved metals, the concentrations of mercury reported may have come from aquifer solids present as turbidity and may not be present in the dissolved fraction of the groundwater.

Volatile Organic, Extractable Organic Chemicals, Pesticides, and PCBs. Based on the history of operations at both Sites 19B and 20B and the presence of halogenated VOCs in the installation potable supply, VOCs were expected to be the major contaminants observed in groundwater. VOC results are shown in Table 2-2. No halogenated solvents were detected during the SI sampling event. All VOCs detected were not attributed to former base operations.

With the exception of two samples in which total phenols were reported, no extractable TCL organic chemicals, pesticides, or PCBs were detected in

groundwater samples at Sites 19B and 20B. Total phenols were reported in samples from monitoring wells WHF-19B-1D (0.011 mg/ℓ) and WHF-20B-4 (0.005 mg/ℓ). Total phenols are analyzed colorimetrically using 4-aminoantipyrine and concentrations are measured against a pure phenol standard. The test is non-specific but highly sensitive. In addition to phenol, many naturally occurring hydroxylated aromatic compounds may be detected as positive inferences. The test is highly sensitive to ortho- and meta-substituted phenols and to many chlorophenols. No acid-extractable organics were detected.

Many of the acid extractable compounds would be expected to be detected by the total phenol test. On the other hand, oxidation products in waste oils and weathered fuels may be phenolics. Concentrations of phenolics detected colorimetrically are at or slightly below the limit of detection of the gas chromatograph/mass spectrometry (GC/MS) extractable organic method and are therefore not believed to be of significant concern.

In addition to the site inspection completed at OLF Barin, a Remedial Action Plan and specifications for removal and closure of the onsite USTs were prepared by ERC Environmental and Energy Services Company from Nashville, Tennessee, in July 1990. Removal of the tanks was completed in January 1992 by Barnes Electric from Pensacola, Florida. In conjunction with the removal of the tanks a total of 56 soil samples were collected and analyzed for lead and total petroleum hydrocarbons.

Total petroleum hydrocarbon concentrations in the soil samples ranged from less than 1 ppm to 4,200 ppm. Elevated concentrations of petroleum hydrocarbons exceeding 100 ppm were reported in 13 of the samples at 6 tank locations (Tanks No. 1221-A, 1221-B, 1222-A, 1235-B, 1231, and combined locations 1233 and 1234). Based on these elevated concentrations, ADEM issued six separate notices of violation for USTs.

3.0 SITE SCREENING FIELD PROGRAM SUMMARY

The site screening was conducted at Sites 19B and 20B between November 9, 1992, and November 14, 1992. The Site Screening Sampling and Analysis Plan (SAP), dated November 1992, was prepared by ABB-ES. All of the SAP procedures were consistent with the guidelines outlined in the U.S. Environmental Protection Agency (USEPA) Region IV Standard Operating Procedures (SOP) and Quality Assurance (QA) Manual (USEPA, 1991) and the NEESA QA plan (1988). Analytical techniques and data quality objectives (DQOs) used for the investigation were chosen according to the NEESA QA Plan (NEESA, 1988).

The field program included completion of 20 hollow-stem auger soil borings, the collection and laboratory analysis of 46 subsurface soil samples, and collection and laboratory analysis of 5 groundwater samples from previously installed monitoring wells.

3.1 SOIL BORINGS AND SUBSURFACE SOIL SAMPLING. A total of 20 hollow-stem auger soil borings (WHF-20B-SB-01 through WHF-20B-SB-16 and WHF-19B-SB-01 through WHF-19B-SB-04) were completed during the Site Screening at OLF Barin. Eighteen of the 20 borings were completed in potential source area locations (i.e., at former UST locations and adjacent to buried fuel lines). The remaining two soil borings (WHF-20B-01 and WHF-20B-02) were placed in upgradient, locations for the collection of background soil samples. The location of each of the soil borings is shown on Figure 3-1.

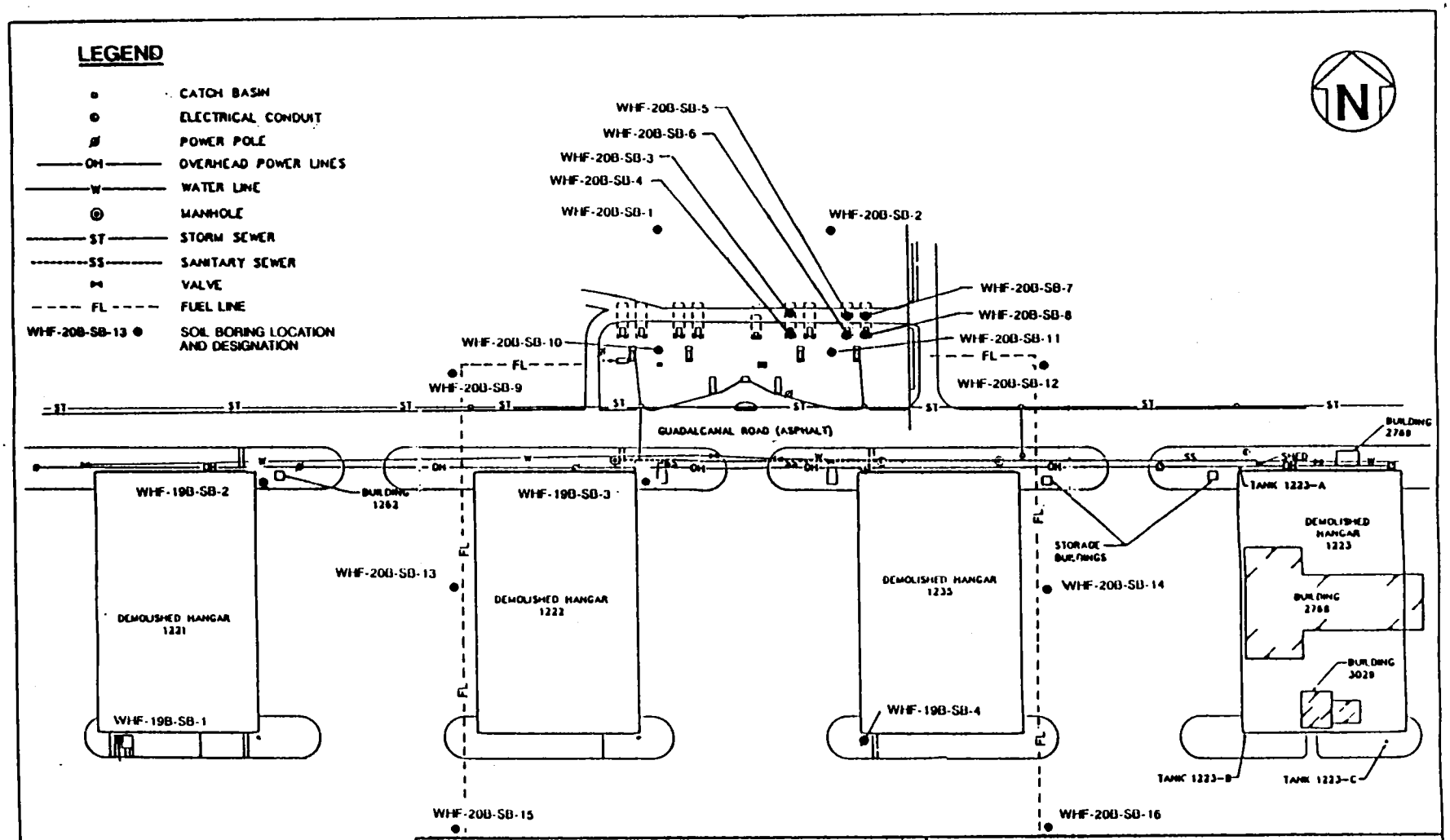
Continuous split-spoon samples were collected in each soil boring for lithologic soil description and to allow the onsite geologist to determine the location of the bottom of the fill material and the depth to water table for soil sampling purposes. Complete lithologic descriptions for each of the soil borings is included in Appendix A.

Forty-six subsurface soil samples were collected from the split-spoon samplers for laboratory analysis. Soil samples were collected from the following three sampling zones: (1) the overlying fill, (2) the interface between the fill and the underlying native materials, and (3) at the top of the water table. All soil samples were collected in accordance with USEPA Region IV SOPS (USEPA, 1991).

All soil samples collected from Site 19B soil borings were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides and PCBs, and TAL inorganic compounds including cyanide. All soil samples collected from Site 20B soil borings were analyzed for TCL VOCs and TAL inorganics (excluding cyanide). However, soil samples from selected Site 20B soil borings were also analyzed for other TCL and TAL parameters including TCL SVOCs, TCL pesticides and PCBs, and cyanide.

All laboratory analytical soil samples were analyzed in conformance to NEESA Level E DQOs by CH2M Hill Laboratories in Redding, California.

3.2 GROUNDWATER SAMPLING. A total of five groundwater samples were collected from existing shallow monitoring wells WHF-20B-1 through WHF-20B-5 (Figure 3-2). All groundwater samples were collected in accordance with USEPA Region IV SOPs (USEPA, 1991). Groundwater samples from monitoring wells WHF-20B-1 and WHF-20B-2 were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides and PCBs, total and dissolved TAL inorganic compounds, total cyanide, total dissolved solids, and

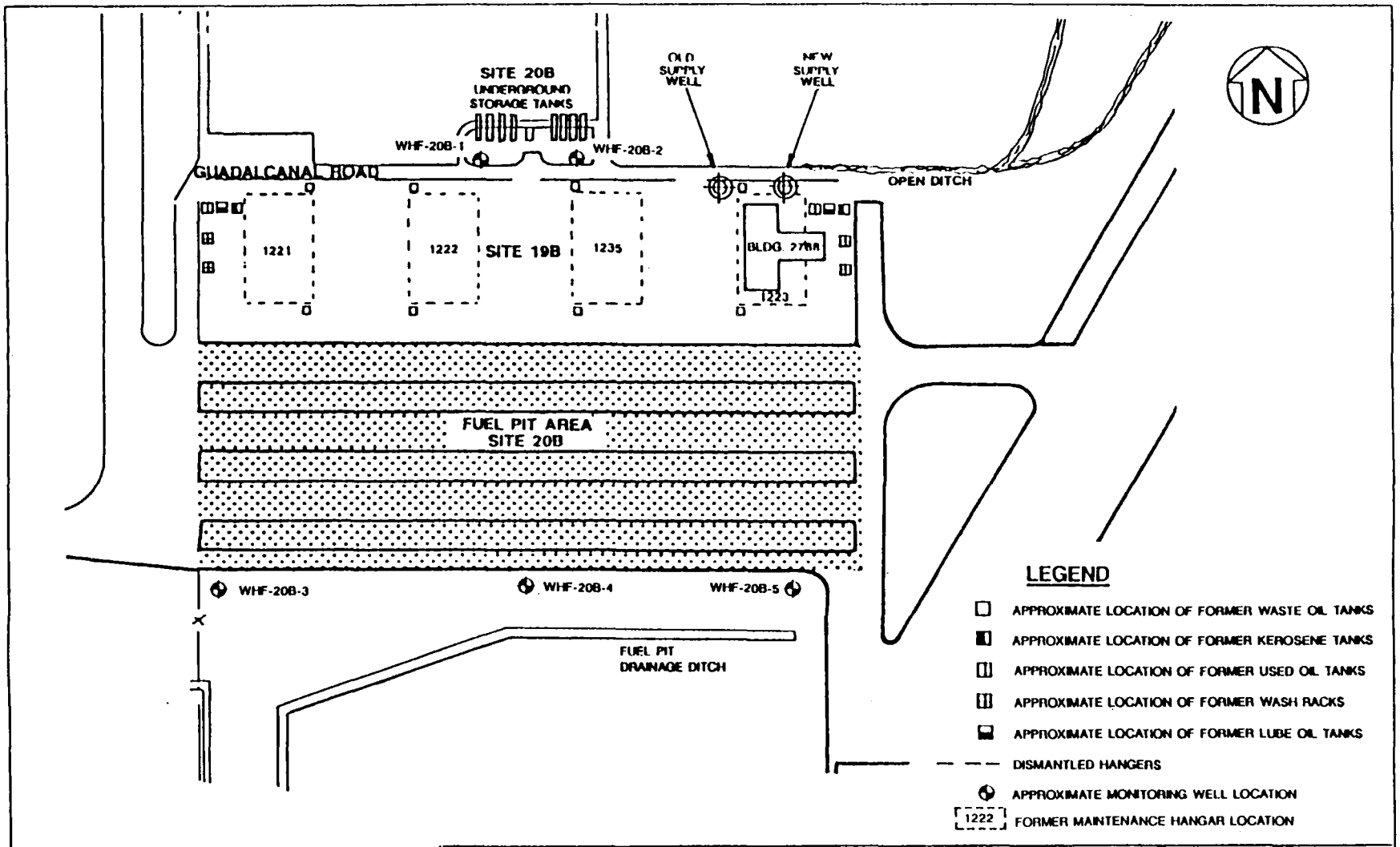


SOURCE: ADAPTED FROM SOUTHNAVFACENGCOM, 1989.

FIGURE 3-1
SITES 19B AND 20B
BORING LOCATIONS

SITE SCREENING REPORT

OLF BARIN
FOLEY, ALABAMA



SOURCE: ADAPTED FROM
SOUTHNAVFACENGCOM, 1989.

SCALE

0 400 800

FIGURE 3-2
SITES 19B AND 20B
GROUNDWATER SAMPLING LOCATIONS

SITE SCREENING REPORT

OLF BARIN
FOLEY, ALABAMA

total suspended solids. The remaining groundwater samples collected from monitoring wells WHF-20B-3, WHF-20B-4, and WHF-20B-5 were analyzed for TCL VOCs only. All groundwater samples were analyzed in conformance to NEESA Level E DQOs.

3.3 SAMPLE IDENTIFICATION. Identification for each sample collected at the site consisted of a sample designation system with as many as five parts. The representative sample designation, the criteria for the individual portions of the designation, and designation order is as follows.

Example: WHF-20B-SB01-S01-01D

1. The installation code, WHF, designates OLF Barin's parent base, NAS Whiting Field.

2. The site number, 20B, designates Site 20, B represents OLF Barin.

3. The sample type and number, SB01, designates the media (type) of sample and number (SB for soil boring, GW for groundwater, FB for field blank, R for rinsate blank, and T for trip blank).

4. A sample vertical locator (depth) is used if required, i.e., 01, 02, or 03.

5. An event number, such as 01D may be used. The 01 represents the sequential event and the D represents a possible suffix to the event number for a field QC duplicate sample.

4.0 QUALITY ASSURANCE PROGRAM AND DATA QUALITY ASSESSMENT

4.1 SAMPLE HANDLING, DELIVERY, AND CHAIN OF CUSTODY. Collection of soil and groundwater samples was performed in accordance with the procedures outlined in SOP Region IV USEPA QA Manual of February 1991. All the samples were collected in a single effort between November 9, 1992, and November 14, 1992. All water samples including groundwater and field quality control (QC) samples were placed in pre-preserved bottles.

All samples were sent by overnight courier, under chain of custody, to CH2M Hill laboratories in Redding, California.

4.2 FIELD QUALITY CONTROL ASSESSMENT. Table 4-1 presents the field QC samples collected for analysis. These samples included duplicates, equipment rinsate blanks, field blanks, and trip blanks. All field QC samples were collected in conformance with the requirements of the USEPA Region IV SOPs and QA Manual of February 1991 and the June 1988 NEESA Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program (NEESA Document 20.2-047B).

The QC sample analytical results are presented in Table 4-1. The complete analytical data package for these samples are included in Appendix B. The data review indicated that the sampling program met all the field QC criteria for soils and groundwater.

4.3 LABORATORY QUALITY CONTROL ASSESSMENT. The analytical results presented in Appendix B were evaluated relative to meeting NEESA Level E QC criteria. These criteria are described in section 7.3.2 of NEESA Document 20.2-047B (June 1988). Given that all analytical data generated for this investigation were analyzed based on NEESA Level E DQOs, the data assessment parameters of precision, accuracy, representativeness, and comparability were not required. A review of the analytical report indicated no discrepancies that warranted concern in the analytical QC criteria.

Table 4-1
Field Quality Control Sample Results

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Sampling Event	Control Sample Designation	TAL-CIP-Metals		TCL-VOC-SVOCs-Pest/PCBs	
	Field blank	Compound	Concentration	Compound	Concentration
November 9, 1992	WHF-20B-SB-FB01	Barium	1.0	Methylene chloride	5B
		Zinc	3.6	Acetone	11
				Di-n-butylphthalate	2J
	Field duplicate	Soil Samples			
November 12, 1992	(original sample/duplicate)	Aluminum	7,870/6,220	Methylene chloride	13B/13B
	WHF-19B-SB03-02/02D	Arsenic	0.81/0.49	Acetone	25/ND
		Barium	9.2/2.8		
		Calcium	191/104		
		Chromium	6.9/4.3		
		Cobalt	0.99/ND		
		Copper	3.1/2		
		Iron	5380/5510		
		Lead	2.08/0.91		
		Magnesium	134/48.6		
		Manganese	24.5/9		
		Potassium	99/ND		
		Sodium	123/164		
		Vanadium	13.4/121		
		Zinc	6.5/3.2		
November 12, 1992	WHF-19B-SB04-02/02D	Aluminum	3,650/4,250	Methylene chloride	11B/12B
		Arsenic	0.24/0.26	Acetone	10J/8J
		Barium	1.9/2.1	N-Nitrosodipheny-lamine	ND/50J
		Calcium	153/159	bis(2-Ethylhexyl) phthalate	210J/ND
		Chromium	4.9/6.3		
		Copper	2.3/1.7		
		Iron	1,710/2,400		
		Lead	0.97/0.82		
		Magnesium	26/ND		
		Manganese	2.3/2.7		
		Sodium	160/139		
		Vanadium	7.3/8.8		
		Zinc	2.3/2.7		

See notes at end of table.

Table 4-1 (Continued)
Field Quality Control Sample Results

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Sampling Event	Control Sample Designation	TAL-CIP-Metals		TCL-VOC-SVOCs-Pest/PCBs	
		Compound	Concentration	Compound	Concentration
	Field Duplicates	Soil Samples			
November 12, 1992	WHF-19B-SB07-02/02D	Aluminum	3660/10800	Methylene chloride	6BJ/7B
		Arsenic	0.53/0.48	Acetone	ND/8J
		Barium	0.56/14.8		
		Calcium	219/291		
		Chromium	10.4/8.8		
		Cobalt	ND/1.4		
		Copper	3.4/3.6		
		Iron	6480/5790		
		Lead	1.5/8.66		
		Magnesium	67.7/140		
		Manganese	13.2/113		
		Mercury	0.17/ND		
		Potassium	83/152		
		Sodium	202/167		
		Vanadium	12.8/15		
		Zinc	6.8/8.9		
	Field Duplicates	Groundwater Samples			
November 13, 1992	WHF-20B-GW-02/02D	Aluminum	3980/4970	Methylene chloride	8B/7B
		Barium	10.7/11.2		
		Calcium	13300/13300		
		Chromium	9.1/10.6		
		Copper	ND/2.8		
		Iron	6110/74400		
		Lead	1.0/1.0		
		Magnesium	965/975		
		Manganese	5.5/6.2		
		Potassium	653/568		
		Selenium	1.2/0.9		
		Silver	ND/1.5		
		Sodium	3570/3560		
		Vanadium	19.1/23.9		
		Zinc	15.4/15.1		
November 13, 1992	WHF-20B-GW-02/02D (Filtered)	Barium	7.6/7.6		
		Calcium	12700/12600		
		Iron	28.8/ND		
		Magnesium	928/904		
		Potassium	568/483		
		Selenium	0.9/ND		
		Silver	1.5/ND		
		Sodium	3830/3730		
		Vanadium	2.2/ND		
		Zinc	12.1/20.2		
	Equipment rinsate blank	(soil)			
November 9, 1992	WHF-20B-SB-R01	Selenium		Methylene chloride	4BJ
				Acetone	2J

See notes at end of table.

Table 4-1 (Continued)
Field Quality Control Sample Results

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Sampling Event	Control Sample Designation	TAL-CIP-Metals		TCL-VOC-SVOCs-Pest/PCBs	
November 10, 1992	WHF-20B-SB-R02	Calcium		Methylene chloride	4BJ
		Iron			
		Zinc			
November 11, 1992	WHF-20B-SB-R03	Calcium	144	Methylene chloride	18B
		Iron	43.7	Di-n-butylphthalate	2J
		Thallium	1.7		
		Zinc	8.5		
November 12, 1992	WHF-20B-SB-R04	Calcium	101	Methylene chloride	18B
		Selenium	0.5	Acetone	4J
		Zinc	3.9	Di-n-butylphthalate	2J
	Equipment rinsate blank	(groundwater)			
November 13, 1992	WHF-20B-GW-R01	None detected		Methylene chloride	8B
	Field Trip Blanks				
November 9, 1992	WHF-20B-SB-T01	Not analyzed		Methylene chloride	5B
November 10, 1992	WHF-20B-SB-T02	Not analyzed		Methylene chloride	4BJ
				Acetone	4J
November 11, 1992	WHF-20B-SB-T03	Not analyzed		Methylene chloride	15B
November 12, 1992	WHF-20B-SB-T04	Not analyzed		Methylene chloride	21B
				Acetone	7J
November 13, 1992	WHF-20B-GW-T01	Not analyzed		Methylene chloride	6B

Notes: All inorganic soil concentrations are presented in milligrams per kilogram (mg/kg) and all remaining concentrations are represented as micrograms per liter ($\mu g/\ell$).

TAL = target analyte list.
CIP = caucus inorganic protocol.
TCL = target compound list.
VOC = volatile organic compound.
mg/kg = milligrams per kilogram.
ND = not detected (< contract required detection limit [CRDL]).
SVOCs = semivolatile organic compounds.
Pest/PCBs = pesticide/polychlorinated biphenyls.
B = compound also detected in method blanks.
J = reported value less the quantitation limit.

5.0 RESULTS AND INTERPRETATIONS

5.1 SOIL SAMPLING RESULTS.

5.1.1 Soil Borings Lithologic Description The onsite field geologist recorded lithologic descriptions of split-spoon samples collected from each onsite soil boring. Detailed lithologic logs of each soil boring are included in Appendix A. In general, silty sands were encountered from land surface to depths ranging from 8 to 20 feet bls. A poorly sorted fine- to medium-grained sand lay immediately below this unit.

Four of the soil borings (WHF-20B-SB-03, WHF-20B-SB-05, WHF-20B-SB-06, and WHF-20B-SB-07) located at former UST locations encountered refusal at approximately 14 feet bls. The sample obtained from the split-spoon sampler at refusal generally contained concrete aggregate material in the tip. It is probable that the concrete was either part of the original UST installation or was backfilled during UST removal operations.

5.1.2 Soil Sampling Analytical Results

Inorganic Compounds. Table 5-1 presents a summary of the analytical results of inorganic parameters for soil samples collected at OLF Barin Sites 19B and 20B. The complete analytical data package for soil samples collected at the sites are included in Appendix B.

Although the laboratory data package for this site screening program was limited to NEESA Level E data (equivalent to USEPA Level 5 data), the analytical package supplied by the laboratory provided enough data concerning equipment calibration, method blanks, spike samples, and laboratory control samples to allow comparison to contract required detection limits (CRDLs) generally reserved for more stringent QC data levels.

A review of Table 5-1 indicates detected concentrations of almost every inorganic parameter (excluding antimony, beryllium, and thallium) for which analysis was performed. However, it should be noted that the reported concentrations for the majority of the inorganic compounds including: barium, cadmium, calcium, magnesium, mercury, nickel, potassium, selenium, silver, and sodium, were reported to be below the CRDLs specified by the USEPA.

To evaluate soil samples containing inorganic concentrations that exceeded the CRDL, comparisons were made with soil samples collected from two designated background soil boring locations, WHF-20B-SB-01 and WHF-20B-SB-02. In each background soil boring, separate shallow and deep soil samples were collected and analyzed for comparison with similar depth samples from potential source area soil borings. Elevated inorganic concentrations reported in potential source area samples were generally either below or similar in concentration to the reported values detected in the background samples. None of the inorganic compounds detected in potential source area samples exceeded the reported concentrations in similar depth background samples by greater than 3 times and are therefore not of significant concern.

Volatile Organic Compounds. Table 5-2 presents a summary of the VOCs and SVOCs detected in soil samples at Sites 19B and 20B. The complete analytical data is

Table 5-1
Analytical Results for Soil Samples at Sites 19B and 20B,
TAL-CIP-CLP-Metals

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	19BSB01			19BSB02			19BSB03			19BSB04		
Sample ID Suffix	01	02	03	01	02	03	01	02/02D	03	01	02/02D	03
Depth (ft bls)	4-6	16-18	18-20	4-6	14-16	16-18	4-6	12-14	16-18	6-8	10-12	14-16
Analytical Parameter												
Aluminum (40)	7030	7580	1090	16000	3890	1150	3630	7870/6220	1760	23900	3650/4250	1870
Antimony (12)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Arsenic (20)	0.85	0.30	ND	1.54	0.22	0.24	0.32	0.81/0.49	0.61	5.31	0.24/0.26	ND
Barium (40)	8.0	2.7	0.56	13.2	0.49	0.53	2.0	9.2/2.8	1.5	8	1.9/2.1	2.1
Beryllium (1.0)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Cadmium (1.0)	ND	0.44	ND	ND	ND	ND	ND	ND/ND	ND	0.49	ND/ND	ND
Calcium (1000)	112	158	122	446	159	130	88.8	191/104	131	360	153/159	183
Chromium (2.0)	8.1	8.6	2.0	13.5	5.4	4.7	4.2	6.9/4.3	2.8	23.4	4.9/6.3	4.5
Cobalt (10)	ND	ND	ND	1.1	ND	ND	ND	0.99/ND	ND	ND	ND/ND	ND
Copper (5.0)	2.2	3.4	2.6	3.6	1.8	1.3	1.3	3.1/2.0	1.0	5.1	2.3/1.7	1.6
Iron (20)	3440	3610	513	9410	5240	2260	4360	5380/5510	2340	16300	1710/2400	1640
Lead (2.0)	0.82	25.0	11.1	2.37	0.74	0.53	0.78	2.08/0.91	0.72	4.04	0.97/0.82	0.95
Magnesium (1000)	39.1	38.3	ND	122	ND	ND	28.9	134/48.6	23.9	69	26/ND	ND
Manganese (3.0)	4.0	3.4	1.4	78.8	3.2	2.9	7.0	24.5/9.0	3.4	28	2.3/2.7	1.3
Mercury (0.02)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Nickel (8.0)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Potassium (1000)	74.9	90.0	91.8	98.1	ND	ND	ND	99/ND	ND	105	ND/ND	ND
Selenium (1.0)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Silver (1000)	ND	0.24	0.31	0.30	ND	0.36	ND	ND/ND	ND	ND	ND/ND	ND
Sodium (2.0)	157	114	150	135	134	140	152	123/164	155	197	160/139	152
Thallium (2.0)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Vanadium (10)	12.6	11.2	1.8	25.3	10.1	4.2	8.8	13.4/12.1	5.7	47.3	7.3/8.8	8.2
Zinc (4.0)	2.8	4.1	2.6	5.6	4.0	2.4	2.4	6.5/3.2	2.9	11.6	2.3/2.7	2.2

See notes at end of table.

Table 5-1 (Continued)
Analytical Results for Soil Samples at Sites 19B and 20B, TAL-CIP-CLP-Metals

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Sample Boring ID	20BSB01		20BSB02		20BSB03		20BSB04			20BSB05		20BSB06	
Sample ID Suffix	01	02	01	02	01	02	01	02	03	01	02	01	02
Depth (ft bls)	4-6	18-20	4-6	17.5-19.5	4-6	12-14	2-4	12-14	16-18	4-6	10-12	4-6	11-14
Analytical Parameter													
Aluminum (40)	20600	6490	8190	6990	11500	8560	10000	8540	908	7070	5990	10400	6320
Antimony (12)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (20)	1.79	0.47	ND	0.30	1.67	1.19	2.68	2	0.21	1.04	0.84	0.26	0.42
Barium (40)	15.2	3.6	6.9	2.9	15.6	12.8	12.3	11.1	0.51	10.1	12.6	12.0	11.4
Beryllium (1.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (1.0)	0.93	ND	ND	96.3	ND	ND	ND	ND	ND	ND	ND	ND	0.48
Calcium (1000)	348	150	179	ND	261	391	274	212	108	244	303	271	250
Chromium (2.0)	35.2	11.9	11.1	7.2	9.0	7.6	8.8	10.8	1.9	6.8	4.9	8.8	5.4
Cobalt (10)	1.6	0.714	ND	ND	1.8	1.2	1.5	1.0	ND	ND	0.79	ND	1.1
Copper (5.0)	13.9	4.7	3.3	2.9	4.5	3.6	3.6	3.1	0.75	2.7	3.8	3.6	2.7
Iron (20)	32100	10400	11500	6010	5710	6360	6310	7780	640	5770	4580	5670	4810
Lead (2.0)	4.88	1.78	2.33	1.13	7.65	5.53	5.33	6.21	0.26	5.44	3.89	5.69	3.60
Magnesium (1000)	203	56.7	66.9	37.4	202	101	124	103	ND	87.5	103	121	88.8
Manganese (3.0)	30.0	7.0	16.9	6.1	83.9	113	103	63.6	1.2	77.5	140	92.8	118
Mercury (0.02)	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (8.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium (1000)	ND	ND	ND	ND	162	ND	86.8	104	ND	77.2	100.0	95.2	89.6
Selenium (1.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17
Silver (1000)	ND	ND	ND	ND	ND	0.39	ND	ND	ND	0.34	ND	0.41	0.27
Sodium (2.0)	450	177	258	210	168	181	172	167	110	160	188	149	142
Thallium (2.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium (10)	81.0	25.6	27.0	15.7	16.1	16.6	16.9	20.2	4.2	14.1	10.5	16.8	11.9
Zinc (4.0)	12.2	5.4	5.2	3.0	12.4	8.6	8.5	7.8	2.9	6.3	5.8	8.3	5.7

See notes at end of table.

Table 5-1 (Continued)
Analytical Results for Soil Samples at Sites 19B and 20B, TAL-CIP-CLP-Metals

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Sample Boring ID	20BSB07		20BSB08			20BSB09		20BSB10		20BSB11		20BSB12	
Sample ID Suffix	01	02/02D	01	02	03	01	02	01	02	01	02	01	02
Depth (ft bls)	6-8	10-12	4-6	8-10	18-20	2-4	18-20	10-12	18-20	10-12	18-20	2-4	16-18
Analytical Parameter													
Aluminum (40)	1840	3660/10800	15300	8660	4120	10200	5440	7410	4460	12000	1820	23800	5020
Antimony (12)	ND	ND/ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (20)	0.86	0.53/.48	1.84	1.29	0.34	1.11	0.85	ND	ND	0.48	ND	0.31	.84
Barium (40)	4.6	5.6/14.8	6.5	9.0	1.9	4.0	1.6	4.5	2.7	3.9	0.55	14.4	4.0
Beryllium (1.0)	ND	ND/ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (1.0)	ND	ND/ND	0.58	ND	ND	0.49	ND	0.47	0.63	0.62	ND	0.50	ND
Calcium (1000)	152	219/291	115	206	138	160	100	99.7	202	224	101	280	208
Chromium (2.0)	3.6	10.4/8.8	16.5	9.0	5.4	11.5	6.0	11.4	15.6	17.6	3.1	20.4	6.5
Cobalt (10)	ND	ND/1.4	1.2	0.96	ND	ND	ND	ND	ND	ND	ND	1.2	ND
Copper (5.0)	1.8	3.4/3.6	4.8	2.8	1.6	2.4	2.1	5.0	3.8	5.1	1.4	6.4	2.5
Iron (20)	2670	6480/5790	13300	5530	2940	11900	4060	13900	10600	19000	1940	12000	8760
Lead (2.0)	1.93	1.5/8.66	1.48	6.72	1.62	2.62	0.94	1.62	1.77	1.90	1.13	2.14	1.54
Magnesium (1000)	41.9	67.7/140	74.0	103	27.0	64.9	26.7	35.3	28.7	40.6	ND	207	29.9
Manganese (3.0)	17.7	13.2/113	6.0	59.0	8.4	12.8	4.3	9.6	11.3	14.1	3.5	43.9	5.8
Mercury (0.02)	ND	0.17/ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (8.0)	ND	ND/ND	ND	ND	ND	ND	ND	ND	ND	4.0	ND	3.9	ND
Potassium (1000)	ND	83/152	116	94.8	ND	102	ND	ND	ND	ND	ND	222	91.5
Selenium (1.0)	ND	ND/ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver (1000)	ND	ND/ND	ND	0.34	0.32	0.31	0.31	ND	0.28	0.31	ND	0.25	0.37
Sodium (2.0)	158	202/167	165	164	169	228	194	185	237	213	173	162	201
Thallium (2.0)	ND	ND/ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium (10)	5.5	12.8/15.0	29.5	14.8	9.9	30.2	10.2	32.0	23.9	33.2	5.0	32.6	19.8
Zinc (4.0)	4.4	6.8/8.9	5.1	7.5	2.9	4.3	3.3	7.2	4.2	7.2	3.6	9.4	4.2

See notes at end of table.

Table 5-1 (Continued)
Analytical Results for Soil Samples at Sites 19B and 20B, TAL-CIP-CLP-Metals

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	20BSB13		20BSB14		20BSB15		20BSB16	
Sample ID Suffix	01	02	01	02	01	02	01	02
Depth (ft bls)	2-4	14-16	3-5	15-17	2-4	14-16	2-4	16-18
Analytical Parameter								
Aluminum (40)	10400	12900	10900	5340	10200	1970	4790	2840
Antimony (12)	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (20)	0.94	0.88	0.98	1.16	0.51	ND	2.54	.37
Barium (40)	13.5	2.8	15.0	0.89	11.2	1.6	8.3	.47
Beryllium (1.0)	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (1.0)	ND	ND	0.56	ND	ND	ND	ND	ND
Calcium (1000)	290	210	388	136	305	113	191	89.7
Chromium (2.0)	8.8	10.7	7.9	5.3	9.2	4.1	5.9	3.7
Cobalt (10)	1.6	ND	ND	ND	1.7	0.79	1.0	ND
Copper (5.0)	3.1	2.5	3.5	1.9	4.0	1.6	2.1	0.99
Iron (20)	7020	7090	6350	4130	6380	2010	6050	2590
Lead (2.0)	1.91	1.13	2.19	0.88	2.32	0.59	2.54	0.66
Magnesium (1000)	133	38.6	156	ND	115	ND	48.0	ND
Manganese (3.0)	66.6	5.3	99.4	3.5	152	17.0	17.9	1.9
Mercury (0.02)	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (8.0)	ND	ND	ND	ND	ND	ND	ND	ND
Potassium (1000)	122	ND	139	69.9	ND	ND	91.4	ND
Selenium (1.0)	ND	ND	ND	ND	0.15	ND	ND	ND
Silver (1000)	ND	ND	0.37	0.38	ND	ND	ND	ND
Sodium (2.0)	157	198	174	193	184	220	216	128
Thallium (2.0)	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium (10)	16.6	19.7	16.9	10.5	15.3	3.6	15.2	7.7
Zinc (4.0)	7.8	5.1	6.8	3.2	7.2	2.5	3.8	3.0

Notes: All the concentrations are expressed in milligrams per kilogram (mg/kg).
(40) = indicates contract required detection limit for analytical parameter.
3.1/2.0 indicates original and duplicate sample analyses.
ND = not detected above laboratory reporting limits.
ID = identification number.
ft bls = feet below land surface

Table 5-2
Summary of Analytical Results for Soil Samples at Sites 19B and 20B, TCL-CIP-CLP-VOCs and SVOCs

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	19BSB01			19BSB02			19BSB03			19BSB04		
Sample ID Suffix	01	02	03	01	02/02D	03	01	02	03	01	02	03
Depth (ft bls)	4-6	16-18	18-20	4-6	14-16	16-18	4-6	12-14	16-18	6-8	10-12	14-16
Analytical Parameter												
Volatile Organic Compounds												
Methylene chloride (10)	13B	12B	13B	10B	11B	14B	12B	13B/13B	12B	4BJ	11B/12B	74B
Acetone (10)	ND	ND	3J	ND	ND	8J	26	25/ND	10J	11J	10J/8J	160
2-Butanone (10	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Total xylenes (10)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Semivolatile Compounds												
Benzoic acid (1600)	42J	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Naphthalene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	730
2-Methylnaphthalene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	2600
N-Nitrosodiphenylamine (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/50J	ND
Phenanthrene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	530
di-n-Butylphthalate (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Fluoranthene (330)	ND	ND	42J	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Pyrene (330)	ND	ND	120J	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Chrysene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
bis(2-Ethylhexyl)phthalate (330)	74BJ	110BJ	ND	ND	110BJ	200BJ	ND	ND/ND	ND	ND	210J/ND	ND
Benzo(b)fluoranthene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Benzo(k)fluoranthene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Benzo(a)pyrene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Indeno(123-c,d)pyrene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Dibenz(a,h)anthracene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Benzo(g,h,i)perylene (330)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Benzo(a)anthracene (330)												

See notes at end of table.

Table 5-2 (Continued)
Summary of Analytical Results for Soil Samples at Sites 19B and 20B
TCL-CIP-CLP-VOCs, and SVOCs

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	20BSB01		20BSB02		20BSB03		20BSB04			20BSB05		20BSB06	
Sample ID Suffix	01	02	01	02	01	02	01	02	03	01	02	01	02
Depth (ft bls)	4-6	18-20	4-6	17.5-19.5	4-6	12-14	2-4	12-14	16-18	4-6	10-12	4-6	11-14
Analytical Parameter													
Volatile Organic Compounds													
Methylene chloride (10)	8BJ	4BJ	3BJ	3BJ	11B	9B	7B	8B	6B	ND	5BJ	6B	6B
Acetone (10)	ND	17	6BJ	13B	ND	4J	ND	ND	ND	ND	ND	ND	5J
2-Butanone (10)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total xylenes (10)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Compounds													
Benzoic acid (10)	NA	NA	ND	ND	NA	NA	42J	ND	ND	NA	NA	ND	ND
Naphthalene (330)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
2-Methylnaphthalene (330)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
N-Nitrosodiphenylamine (330)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
Phenanthrene (330)	NA	NA	ND	ND	NA	NA	84J	ND	ND	NA	NA	ND	ND
di-n-Butylphthalate (330)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
Fluoranthene (330)	NA	NA	ND	ND	NA	NA	100J	75J	ND	NA	NA	49J	84J
Pyrene (330)	NA	NA	ND	ND	NA	NA	ND	63J	ND	NA	NA	45J	93J
Chrysene (330)	NA	NA	ND	ND	NA	NA	250J	62J	ND	NA	NA	45J	56J
bis(2-Ethylhexyl)phthalate (330)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
Benzo(b)fluoranthene (330)	NA	NA	ND	ND	NA	NA	380	45J	ND	NA	NA	ND	48J
Benzo(k)fluoranthene (330)	NA	NA	ND	ND	NA	NA	250J	38J	ND	NA	NA	ND	39J
Benzo(a)pyrene (330)	NA	NA	ND	ND	NA	NA	300J	ND	ND	NA	NA	40J	ND
Indeno(123-c,d)pyrene (330)	NA	NA	ND	ND	NA	NA	190J	ND	ND	NA	NA	ND	ND
Dibenz(a,h)anthracene (330)	NA	NA	ND	ND	NA	NA	99J	ND	ND	NA	NA	ND	ND
Benzo(g,h,i)perylene (330)	NA	NA	ND	ND	NA	NA	190J	ND	ND	NA	NA	ND	ND
Benzo(a)anthracene (330)	NA	NA	ND	ND	NA	NA	100J	43J	ND	NA	NA	ND	49J

See notes at end of table.

Table 5-2 (Continued)
Summary of Analytical Results for Soil Samples at Sites 19B and 20B
TCL-CIP-CLP-VOCs, and SVOCs

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	20BSB07		20BSB08			20BSB09		20BSB10		20BSB11		20BSB12	
Sample ID Suffix	01	02/02D	01	02	03	01	02	01	02	01	02	01	02
Depth (ft bls)	6-8	10-12	4-6	8-10	18-20	2-4	18-20	10-12	18-20	10-12	18-20	2-4	16-18
Analytical Parameter													
Volatile Organic Compounds													
Methylene chloride (10)	16B	6BJ/7B	14B	18B	14B	6B	4BJ	3BJ	3BJ	2BJ	2BJ	6B	6BJ
Acetone (10)	13	ND/8J	5J	46	21	ND	2J	9BJ	68BJ	44B	5BJ	ND	4J
2-Butanone (10)	ND	ND/ND	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total xylenes (10)	ND	ND/ND	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Compounds													
Benzoic acid (10)	NA	NA	ND	63J	ND	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (330)	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene (330)	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine (330)	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene (330)	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
di-n-Butylphthalate (330)	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene (330)	NA	NA	ND	63J	ND	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene (330)	NA	NA	ND	57J	ND	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene (330)	NA	NA	ND	69J	130J	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (330)	NA	NA	ND	75BJ	45J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene (330)	NA	NA	ND	46J	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene (330)	NA	NA	ND	50J	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene (330)	NA	NA	ND	45J	ND	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(123-c,d)pyrene (330)	NA	NA	ND	110J	48J	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene (330)	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene (330)	NA	NA	ND	240J	330J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene (330)	NA	NA	ND	43J	ND	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-2 (Continued)
Summary of Analytical Results for Soil Samples at Sites 19B and 20B
TCL-CIP-CLP-VOCs, and SVOCs

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	20BSB13		20BSB14		20BSB15		20BSB16	
Sample ID Suffix	01	02	01	02	01	02	01	02
Depth (ft bls)	2-4	14-16	3-5	15-17	2-4	14-16	2-4	16-18
Analytical Parameter								
Volatile Organic Compounds								
Methylene chloride (10)	10B	12B	10B	7B	3BJ	2BJ	8B	12B
Acetone (10)	ND	3J	ND	3J	ND	4BJ	ND	3J
2-Butanone (10)	ND	ND	ND	ND	ND	ND	ND	ND
Total xylenes (10)	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Compounds								
Benzoic acid (10)	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (330)	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene (330)	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine (330)	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene (330)	NA	NA	NA	NA	NA	NA	NA	NA
di-n-Butylphthalate (330)	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene (330)	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (330)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(123-c,d)pyrene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene (330)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene (330)	NA	NA	NA	NA	NA	NA	NA	NA

Notes: All the concentrations are expressed in micrograms per kilogram (μg/kg).
(330) = indicates contract required detection limit for analytical parameter.
ID = identification number.
ft bls = feet below land surface.
ND = not detected above laboratory reporting limits.
10/12 = indicate original sample/duplicate sample analysis.
NA = parameter not analyzed.
J = reported value less than quantitation limit.
B = compound also detected in quality control (QC) blank.

presented in Appendix B. Laboratory analysis for VOCs indicated the presence of four compounds, methylene chloride, acetone, 2-butanone, and total xylenes, in soil samples collected at Sites 19B and 20B. Methylene chloride was detected in 45 of the 46 soil samples collected. However, it was also detected in the associated laboratory method blanks and is, therefore, believed to represent laboratory-derived contamination and is not representative of actual site conditions. Similarly concentrations of acetone were detected in 33 of 46 soil samples collected at OLF Barin and, acetone was detected in some of the field quality control samples (i.e., field blank, rinsate blank and trip blank) and laboratory method blanks. Acetone is a common laboratory contaminant and is also a reported degradation product of isopropyl alcohol which was used in the field equipment decontamination process at the site. Although the acetone concentrations reported in soil samples in some cases exceeded the concentration reported in analytical method blanks and field QC samples by a factor of 10, the absence of a known source at the facility (acetone is not a component of AVGAS) and the likelihood of a laboratory or decontamination process source would seem to indicate that the reported concentrations are not representative of site conditions.

The remaining detected VOC compounds, 2-butanone and total xylenes, appear to be isolated occurrences identified in soil boring WHF-20B-SB-08 at the 8- to 10-foot depth sample. Both reported concentrations, 2-butanone at 3 micrograms per kilogram (μg/kg) and total xylenes at 2 μg/kg, were identified as estimated concentrations below the CRDLs of 10 μg/kg and 5 μg/kg, respectively.

Semivolatile Organic Compound Analysis. Analysis for SVOCs in soil samples indicated six soil borings, WHF-19B-SB-01, WHF-19B-SB-02, WHF-19B-SB-04, WHF-20B-SB-04, WHF-20B-SB-06, and WHF-20B-SB-08, contained 17 compounds. However, all reported concentrations except four including benzo[b]fluoranthene (380 μg/kg) in sample WHF-20B-SB-04-01 and naphthalene (730 μg/kg); 2-methylnaphthalene (2,600 μg/kg); and phenanthrene (530 μg/kg) all in soil sample WHF-20B-SB-04-03, were reported as estimated values detected below CRDLs.

The reported concentration of benzo(b)fluoranthene (380 μg/kg) in soil sample WHF-20B-SB-04-01 only slightly exceeded the CRDL of 330 μg/kg for this parameter. However, the remaining three SVOCs (naphthalene, methylnaphthalene, and phenanthrene) are of concern because they significantly exceeded CRDLs (by factors ranging from 1.61 times to 7.88 times) and background concentrations. Naphthalene, 2-methylnaphthalene and phenanthrene are components of AVGAS or diesel fuel and appear to be a site related release.

Pesticides and PCBs. Table 5-3 summarizes the analytical pesticide concentrations detected in soil samples collected at Sites 19B and 20B. No PCB compounds were detected in the soil samples. The complete analytical data package for the laboratory analysis are provided in Appendix B. A total of five pesticide compounds (alpha chlordane, gamma chlordane, 4,4-DDE, 4,4-DDT, and dieldrin) were detected in soil samples collected at Sites 19B and 20B. Single occurrences of each of the pesticide compounds was noted with the exception of alpha chlordane detected in both soil samples WHF-19B-SB-03-03 and WHF-19BSB-04-01. All the reported concentrations exceeded background sample concentrations and all except 4,4-DDT in soil boring WHF-20B-SB-08 exceeded CRDLs. It is currently unknown if the reported pesticide concentrations are related specifically to the USTs at Sites 19B and 20B, however, the reported concentrations are of concern and are believed to represent site conditions.

Table 5-3
Summary of Analytical Results for Soil Samples at Sites 19B and 20B,
TCL-CIP-CLP-Pesticides

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	19BSB01			19BSB02			19BSB03			19BSB04		
Sample ID Suffix	01	02	03	01	02	03	01	02/02D	03	01	02	03
Depth (ft bls)	4-6	16-18	18-20	4-6	14-16	16-18	4-6	12-14	16-18	6-8	10-12	14-16
Analytical Parameter												
Alpha chlordane (4.0)	ND	ND	ND	ND	ND	ND	ND	ND/ND	2.7	9.0	ND/ND	ND
Gamma chlordane (4.0)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	7.6	ND/ND	ND
4,4-DDE (0.8)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
4,4-DDT (0.8)	ND	ND	ND	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND
Dieldrin (0.8)	ND	8.0	4.1	ND	ND	ND	ND	ND/ND	ND	ND	ND/ND	ND

See notes at end of table.

Table 5-3 (Continued)
Summary of Analytical Results for Soil Samples at Sites 19B and 20B,
TCL-CIP-CLP-Pesticides

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	20BSB01		20BSB02		20BSB03		20BSB04			20BSB05		20BSB06	
Sample ID Suffix	01	02	01	02	01	02	01	02	03	01	02	01	02
Depth (ft bls)	4-6	18-20	4-6	17.5-19.5	4-6	12-14	2-4	12-14	16-18	4-6	10-12	4-6	11-14
Analytical Parameter													
Alpha chlordane (4.0)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
Gamma chlordane (4.0)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
4,4-DDE (0.8)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
4,4-DDT (0.8)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
Dieldrin (0.8)	NA	NA	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND

See notes at end of table.

Table 5-3 (Continued)
Summary of Analytical Results for Soil Samples at Sites 19B and 20B,
TCL-CIP-CLP-Pesticides

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	20BSB07		20BSB08		20BSB09		20BSB010		20BSB011		20BSB012	
Sample ID Suffix	01	02	01	02	01	02	01	02	01	02	01	02
Depth (ft bls)	6-8	10-12	4-6	18-20	2-4	18-20	10-12	18-20	10-12	18-20	2-4	16-18
Analytical Parameter												
Alpha chlordane (4.0)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane (4.0)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDE (0.8)	NA	NA	3.4J	ND	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDT (0.8)	NA	NA	4.2	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin (0.8)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-3 (Continued)
Summary of Analytical Results for Soil Samples at Sites 19B and 20B
TCL-CIP-CLP-Pesticide

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Soil Boring ID	20BSB13		20BSB14		20BSB15		20BSB16	
Sample ID Suffix	01	02	01	02	01	02	01	02
Depth (ft bls)	2-4	14-16	3-5	15-17	2-4	14-16	2-4	16-18
Analytical Parameter								
Alpha Chlordane (4.0)	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordane 4.0)	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDE (0.8)	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDT (0.8)	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin (0.8)	NA	NA	NA	NA	NA	NA	NA	NA

Notes: All the concentrations are expressed in micrograms per kilogram (μg/kg).
(0.8) = contract required detection limit for analytical parameter.
ID = number identification.
ft bls = feet below land surface.
10/12 = original sample/duplicate sample analysis.
TCL = target compound list.
CLP = Contract Laboratory Program.
CIP = CLP-Caucus Inorganics Protocol.
PCBs = polychlorinated biphenyls.
ND = not detected above laboratory reporting limits.
B = compound also detected in QC blank.
J = reported value less than quantitation limit.
NA = parameter not analyzed.
4,4-DDE = dichlorophenyl dichloroethene.
4,4-DDT = dichlorophenyl trichloroethane.

Analytical Comparison to Tank Removal Soil Sample Data. Table 5-4 provides a summary comparison of the original analytical results for soil samples collected during the OLF Barin tank removal operation with the analytical results of this site screening investigation. Soil borings completed during the site screening investigation were located at specific tank locations where previous elevated concentrations of lead and total petroleum hydrocarbons (TPH) were identified. Soil samples collected during the tank removal operations were analyzed for lead and petroleum hydrocarbons, whereas soil samples collected during this site screening were analyzed for the full TAL and TCL parameter list.

A review of Table 5-4 indicates that, in general, site screening investigation lead concentrations were comparable or lower than the reported values of the tank removal investigation. The high petroleum hydrocarbon concentrations reported during the tank removal investigation are largely due to the abundant SVOCs that were detected in the site screening soil samples.

5.2 GROUNDWATER SAMPLING ANALYTICAL RESULTS Table 5-5 presents a summary of the TCL and TAL analytical parameters detected in groundwater samples collected at the OLF Barin Site 20B. TAL inorganics (including total and dissolved samples) analysis was performed on samples from two of the onsite monitoring wells: WHF-20B-GW-01 and WHF-20B-GW-02.

Elevated concentrations of aluminum, chromium, and iron were reported to exceed the CRDL in both total analysis groundwater samples from wells WHF-20B-GW-01 and WHF-20B-GW-02. In addition, analysis for total manganese, total mercury, and total zinc also exceeded CRDL in groundwater sample WHF-20B-GW-01. However, dissolved inorganic analysis of groundwater samples collected from the same locations indicated no inorganic parameters exceeded the CRDLs.

Further, all inorganic parameters, with the exception of the total analysis for iron, were reported to be below limits of the Alabama Primary and Secondary Drinking Water Standards (APDWS and ASDWS) and Federal Primary Drinking Water Standard Maximum Contaminant Levels (MCLs). Total analysis for iron in monitoring wells WHF-20B-GW-01 and WHF-20B-GW-02 exceeded the ASDWS of 300 $\mu g/\ell$. The elevated concentrations of iron are not of concern given that samples for dissolved iron collected from the same monitoring wells did not exceed the standard. Although the Alabama standards are based on total analysis, they are also designed based on production well samples that lack appreciable amounts of sediment. The discrepancy between the analysis for total and dissolved iron coupled with the high total suspended solids values reported would seem to indicate that the elevated iron concentrations detected in the total analysis are a result of iron bound to the sediment and are not representative of the actual groundwater conditions.

Analytical Results of VOCs, SVOCs, Pesticides, and PCBs. Table 5-5 also presents the summary data for VOCs identified in groundwater samples at the OLF Barin site. Two of the groundwater samples, WHF-20B-GW-01 and WHF-20B-GW-02, were analyzed for TCL VOCs, TCL SVOCs, and TCL pesticides and PCBs. The remaining groundwater samples, WHF-20B-GW-03, WHF-20B-GW-04, and WHF-20B-GW-05 were analyzed for total TCL VOCs only.

Two VOCs, methylene chloride and acetone, were detected in groundwater samples. Methylene chloride was detected in all five groundwater samples collected. However, it was also detected in the associated method blanks for these samples

Table 5-4
Historic Analytical Results Comparison

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Tank Location	Tank Removal Investigation December 1991		Site Screening Soil Boring Location	Site Screening Investigation November 1992		
	Parameter	Concentration (mg/kg)		Parameter	Concentration[1] (mg/kg)	
1221A	Lead	<5	WHF-19B-SB-02	lead	2.37	
		28				
		27		methylene chloride	14	B
		140		acetone	8	J
		43		bis(2-Ethylhexyl)phthalate	200	BJ
	Petroleum hydrocarbons	4				
		69				
		2				
		390				
		46				
1222A	Lead	24	WHF-19B-SB-03	lead	2.08	
		28				
		21		methylene chloride	13	B
		6		acetone	26	
		28		alpha chlordane	2.7	
	Petroleum hydrocarbons	4				
		670				
		45				
		11				
		270				
1235B	Lead	64	WHF-19B-SB-04	lead	4.04	
		<5				
		36		methylene chloride	74	B
		110		acetone	160	
		53		naphthalene	730	
	Petroleum hydrocarbons	25		2-methylnaphthalene	2,600	
		400		N-nitrosodiphenylamine	50	J
		36		phenanthrene	530	
		1,000		bis(2-Ethylhexyl)phthalate	210	J
		140		alpha chlordane	9.0	
				gamma chlordane	7.6	
1221B	Lead	10	WHF-19B-SB-01	lead	25	
		87				
		<5		methylene chloride	13	B
		7		acetone	3	J
		170		benzoic acid	42	J
				fluoranthene	42	J
				pyrene	120	J
				bis (2-ethylhexyl)phthalate	110	BJ
				dieldrin	8.0	
	Petroleum hydrocarbons	202				
		660				
		<5				
		2				
		490				

See notes at end of table.

Table 5-4 (Continued)
Historic Analytical Results Comparison

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Tank Location	Tank Removal Investigation December 1991		Site Screening Soil Boring Location	Site Screening Investigation November 1992		
	Parameter	Concentration (mg/kg)		Parameter	Concentration[1] (mg/kg)	
1231	Lead	<5	WHF-20B-SB-03	lead	7.65	
		47	WHF-20B-SB-04			
		<5		methylene chloride	11	B
		<5		acetone	4	J
		15		benzoic acid	42	J
				phenanthrene	84	J
				fluoranthene	100	J
				pyrene	63	J
				chrysene	250	J
	Petroleum hydrocarbons	40		benzo(b)fluoranthene	380	
		41		benzo(k)fluoranthene	250	J
		11		benzo(a)pyrene	300	J
		22		indeno(1,2,3-cd)pyrene	190	J
		200		dibenz(a,h)anthracene	99	J
				benzo(g,h,i)perylene	190	J
				benzo(a)anthracene	100	J
1233/1234	Lead	<5	WHF-20B-SB-05,	lead	8.66	
		20	WHF-20B-SB-06,			
		<5	WHF-20B-SB-07, and	methylene chloride	18	B
		7	[2]WHF-20B-SB-08	acetone	46	
		<5		2-butanone	3	J
		8		total xylenes	2	J
				benzoic acid	63	J
				fluoranthane	63	J
				pyrene	57	J
	Petroleum hydrocarbons	9		chrysene	69	J
		4,200		bis (2-ethylhexyl)phthalate	75	BJ
		26		benzo(b)fluoranthene	46	J
		24		benzo(k)fluoranthene	50	J
		40		benzo(a)pyrene	45	J
		110		indeno(1,2,3-cd)pyrene	110	J
				benzo(g,h,i)perylene	330	J
				benzo(a)anthracene	49	J
				4,4-DDE	3.4	J
				4,4-DDT	4.2	

[1] Reported concentrations are highest values recorded from multiple samples in a single borehole.
[2] Reported concentrations are highest value reported from multiple soil samples collected from multiple soil borings at this location.

Notes: All reported concentrations are expressed in milligrams per kilogram (mg/kg).

B = compound also detected in method blank.
J = reported value less than quantitation limit.

Table 5-5
Analytical Results for Groundwater Samples at Site 20B
TAL and TCL Compounds

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Sample ID	20BGW01	20BGW01	20BGW02	20BGW02	20BGW03	20BGW04	20BGW05	Alabama Drinking Water Standard/ FPDW MCL
Sample Type	Total	Filtered	Total	Filtered	Total	Total	Total	
Inorganics								
Aluminum (200)	9050	ND	3980/4970	ND/ND	NA	NA	NA	--/--
Antimony (60)	ND	ND	ND/ND	ND/ND	NA	NA	NA	--/--
Arsenic (10)	ND	ND	ND/ND	ND/ND	NA	NA	NA	[1]50/50
Barium (200)	16.5	11.0	10.7/11.2	7.6/7.6	NA	NA	NA	[1]1000/1000
Beryllium (5)	ND	ND	ND/ND	ND/ND	NA	NA	NA	--/--
Cadmium (5)	ND	ND	ND/ND	ND/ND	NA	NA	NA	[1]10/5
Calcium (5000)	4570	4480	13300/13300	12700/12600	NA	NA	NA	--/100
Chromium (10)	20.9	ND	9.1/10.6	ND/ND	NA	NA	NA	[1]50/--
Cobalt (50)	ND	ND	ND/ND	ND/ND	NA	NA	NA	--/--
Copper (25)	4.9	ND	ND/2.8	ND/ND	NA	NA	NA	[2]1000/--
Iron (100)	14000	ND	6110/7400	28.8/ND	NA	NA	NA	[2]300/--
Lead (5)	5.2	1.2	1.0/1.0	ND/ND	NA	NA	NA	[1]20/--
Magnesium (5000)	668	654	965/975	928/904	NA	NA	NA	--/--
Manganese (15)	30.7	10.6	5.5/6.2	ND/ND	NA	NA	NA	[2]50/--
Mercury (0.2)	0.9	ND	ND/ND	ND/ND	NA	NA	NA	[1]2/2
Nickel (40)	ND	ND	ND/ND	ND/ND	NA	NA	NA	--/--
Potassium (5000)	807	792	653/568	568/483	NA	NA	NA	--/--
Selenium (5)	ND	ND	1.2/0.9	0.9/ND	NA	NA	NA	[1]10/50
Silver (10)	ND	ND	ND/1.5	1.5/ND	NA	NA	NA	[1]50/50
Sodium (5000)	3090	2740	3570/3560	3830/3738	NA	NA	NA	--/--
Thallium (10)	ND	ND	ND/ND	ND/ND	NA	NA	NA	--/--
Vanadium (50)	49.7	ND	19.1/23.9	2.2/ND	NA	NA	NA	--/--
Zinc (20)	39.4	66	15.4/15.1	12.1/20.2	NA	NA	NA	[2]500/110

See notes at end of table.

Table 5-5 (Continued)
Analytical Results for Groundwater Samples at Site 20B
TAL and TCL Compounds

Site Screening Report
Sites 19B and 20B
OLF Barin, Foley, Alabama

Sample ID	20BGW01	20BGW01	20BGW02	20BGW02	20BGW03	20BGW04	20BGW05	Alabama Drinking Water Standard/ FPDW MCL
Sample Type	Total	Filtered	Total	Filtered	Total	Total	Total	
Inorganics–continued								
Total dissolved solids (mg/ℓ) (10)	145	NA	123/78	NA/NA	NA	NA	NA	500/–
Total suspended solids (mg/ℓ) (4)	128	NA	44/43	NA/NA	NA	NA	NA	–/–
Organics								–/–
Methylene chloride (5)	7B	NA	8B/7B	NA	9B	10B	10B	–/–
Acetone (10)	ND	NA	ND/ND	NA	4BJ	2BJ	5BJ	–/–

[1] Alabama Primary Drinking Water Standard.
[2] Alabama Secondary Drinking Water Standard.

Notes: All the concentrations are expressed in micrograms per liter (μg/ℓ) except where noted.

FPDW MCL = Federal Primary Drinking Water Standard Maximum Contaminant Level.
(60) = low concentration Contract Required Detection Level (CRDL) for water sample.
ND = not detected above laboratory reporting limits.
NA = parameter not analyzed.
B = compound also detected in method blank.
J = compound estimated value detected below CRDL.
– = indicates parameter is not regulated.

and is, therefore, believed to be a result of laboratory-derived contamination and is not representative of actual groundwater conditions. Estimated concentrations of acetone were detected below CRDL in groundwater samples WHF-20B-GW-03, WHF-20B-GW-04, and WHF-20B-GW-05. Similar to methylene chloride, the acetone was detected in the associated method blank and these concentrations are believed to be laboratory derived. No SVOC or pesticide and PCB compounds were detected in the groundwater samples.

6.0 SUMMARY AND CONCLUSIONS

The findings of the Site Screening investigation at OLF Barin Sites 19B and 20B are indicated below.

- Although numerous TAL inorganic parameters were detected in the soil samples collected from potential source area locations at the sites, none of the compounds were found to exceed background soil concentrations by greater than a factor of three. These concentrations may be attributable to natural deviations within the soils.

- Four volatile organic compounds including methylene chloride, acetone, 2-butanone, and total xylene were detected in soil samples recovered at the sites. Both methylene chloride and acetone concentrations are believed to represent laboratory derived contamination. The concentrations of 2-butanone and total xylene were detected below CRDLs and therefore are not of concern.

- Isolated occurrences of SVOCs and pesticide compounds were detected in soil borings associated with certain UST locations. These compounds are believed to represent site conditions, however, it is not conclusively known if the pesticide concentrations are related specifically to former operations at Sites 19B and 20B.

- Groundwater samples recovered at the site were not reported to contain any contaminants exceeding APDWS and ASDWS Maximum Contaminant Levels (MCLs).

- A comparison of the soil analytical results of this investigation with analytical results for soil samples collected during the UST removal operation indicate similar detected concentrations of lead. The elevated total petroleum hydrocarbon concentrations reported during the UST removal operation are believed to be represented by the numerous SVOC compounds detected during the site screening.

In conclusion, the concentrations of SVOCs and pesticides in onsite soils warrant additional investigation. The nature of the contaminants detected and the absence of compounds typically associated with petroleum hydrocarbon contamination would seem to indicate that additional investigation should remain with the Navy's Installation Restoration (IR) program.

7.0 REFERENCES

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Naval Energy and Environmental Support Activity (NEESA), 1988, Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program: NEESA 20.2-047B.

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U.S. Environmental Protection Agency, 1991, Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual: Athens, Georgia, USEPA Region IV Environmental Services Division.

APPENDIX A

SOIL BORING LITHOLOGIC DESCRIPTIONS

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-19B-SB01
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 19B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SILTY SAND: Red brown 12" over Moderate red brown		SM	POSTHOLE	
5	901-01-01			0ppm	SAND: Pale yellow orange,fine to medium grained,trace silt,poorly graded		SP	1,-,1,-	
			0/24		NO RECOVERY			1,1,5,5	
			0/24		NO RECOVERY			5,4,3,3	
10			18/24	0ppm	SILTY SAND: Moderate red brown,fine grained,poorly graded		SM	2,2,4,5	
			24/24	0ppm	SILTY SAND: As above			4,4,5,8	
15			18/24	0ppm	SILTY SAND: As above			3,8,9,8	
	901-02-01		20/24	10	SILTY SAND: As above 12" over SAND: Greyish orange with red brown streaking,fine to medium grained		SP	7,7,8,8	
	901-03-01		20/24	1.0	SAND: Very pale orange,fine ot medium grained,moist			15,8,15,18	
20									
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-19B-SB02
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 19B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SILTY SAND: Red brown 12" over moderate red brown		SM	POSTHOLE	
5	902-01-01		18/24	0ppm	SILTY SAND: Moderate red brown, fine grained, poorly graded.			PUSHED	
			12/24	0ppm	SILTY SAND: As above			PUSHED	
			18/24	0ppm	SILTY SAND: As above			PUSHED	
10			18/24	0ppm	SILTY SAND: As above			PUSHED	
			24/24	0ppm	SILTY SAND: As above			PUSHED	
15	902-02-01			0ppm	SILTY SAND: As above 23" over SAND: Pale orange, fine to medium grained			PUSHED	
	902-03-01			0ppm	SAND: Pale orange, fine to medium grained		SP	PUSHED	
			10/24		SAND: As above			PUSHED	
20									
					NOTE: Split spoon's collected from WHF-19B-SB02 where pushed by rig do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-19B-SB03
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 22FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 19B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm			SP	POSTHOLE	
5	19B03-01-01		20/24	0ppm	SAND: Moderate red brown,fine grained,some silt,poorly graded			PUSHED	
			20/24	0ppm	SAND: As above			PUSHED	
			18/24	0ppm	SAND: As above			PUSHED	
10			18/24	0ppm	SAND: As above with color change to moderate red			PUSHED	
	19B03-02-01		24/24	0ppm	SAND: As above with color cange to pale yellow orange			PUSHED	
15			18/24	0ppm	SAND: Moderate red,very fine grained,			PUSHED	
	19B03-03-01		18/24	0ppm	SAND: Very pale yellow,medium grained			PUSHED	
			08/24	0ppm	SAND: Very pale orange,Medium grained,wet			PUSHED	
20			12/24	0ppm	SAND: As above			PUSHED	
25					NOTE: Split spoon's collected from WHF-19B-SB03 where pushed by rig do to dangerous weather conditions				

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-19B-SB04
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 19B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SANDY SILT: Dark red brown,fine grained 8" over dark yellow orange with some gravel		SM	POSTHOLE	
					SILTY SAND: Very pale yellow,some gravel				
5			03/24					PUSHED	
					SANDY SILT: Moderate red brown				
	904-01-01		22/24					PUSHED	
					SILTY SAND: As above 5" over SAND: Pale yellow orange		SP	PUSHED	
10					SAND: Yellow orange				
								PUSHED	
					SAND: As above				
								PUSHED	
					SAND: Pale red,fine to medium grained				
15			14/24					PUSHED	
					SAND: As above				
			18/24	95/2				PUSHED	
					SAND: medium grained,patrolium odor				
			08/24	60/0				PUSHED	
20									
					NOTE: Split spoon's collected from WHF-19B-SB04 where pushed by rig do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: QLF BARIN Foly, Alabama	**LOG of WELL:**		**BORING NO.** WHF-20B-SB01-01
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7579-03
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 11/09/92	**COMPLTD:** 11/09/92
METHOD: 4.25 in. H.S.A.	**CASE SIZE:**	**SCREEN INT.:**	**PROTECTION LEVEL:** D
TOC ELEV.: FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20.0FT.	**DPTH TO ▽** FT.
LOGGED BY: Salvatore Consalvi	**WELL DEVELOPMENT DATE:**		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND: Fine grained,greyish orange		SC		
			P.H	0				Posthole	
	SB01-01				CLAY: Red			5,7,8,9	
5			18/24	0					
					SANDY CLAY: Very stiff,fine grained,moderate red			10,14,14,14	
			19/24	0					
					SANDY CLAY: As above			5,10,11,14	
			21/24	0					
10					SANDY CLAY: As above			5,7,6,9	
			21/24	0					
					SANDY CLAY: As above			6,7,10,8	
			17/24	0	SAND: Medium dense,fine grained,pale orange		SP		
					SAND: As above			4,5,8,7	
15			18/24	0					
					SAND: As above			5,9,9,9	
			18/24	0					
	SB01-02				SAND: As above,last 3" SANDY CLAY: moderate red orange, slightly moist			14,18,15,13	
			20/24	0					
20							SC		
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB02
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/10/92	**COMPLTD:** 11/10/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ▽** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm				POSTHOLE	
							SC		
5	SB02-01-01		20/24	0ppm				5,7,8,9	
					SANDY CLAY: Red-Brown,very fine grained				
			18/24	0ppm				4,4,7,7	
			18/24	0ppm				4,4,6,5	
10									
			21/24	0ppm	SANDY CLAY: As above becoming slightly moist			20,22,24,26	
			21/24	0ppm	SANDY CLAY: As above color change to modrate redish-orange			8,13,10,9	
15			24/24	0ppm				10,10,12,12	
			24/24	0ppm				5,4,4,4	
	SB02-02-01				SAND: Pale orange,fine to medium grained,poorly graded,sub-round		SP		
			24/24	0ppm	SILTY SAND: Red,very fine grained		SM	5,8,9,9	
20									
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB03
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/11/92	**COMPLTD:** 11/11/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 18FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SILTY CLAY: Pale red brown		ML	POSTHOLE	
	SB03-01-01		20/24	5ppm	SILTY SAND: Greyish red,fine grained,poorly graded		SM	10,9,7,7	
5			24/24	10ppm	SILTY SAND: As above			7,3,3,3	
			10/24	0ppm	SILTY SAND: As above			1,1,2,3	
			22/24	2ppm	SILTY SAND: As above with trace gravel			2,2,2,2	
10			20/24	7ppm	SILTY SAND: As above,advanced 1'with 1 blow			1,0,1,1	
	SB03-02-01		18/24	1ppm	SILTY SAND: As above			1,0,1,1	
15			8/24	3ppm	FAT CLAY: Grey,concrete chips in shoe of spoon Refusal @ 14.8'		CH	50/8"	
20									
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB04
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/11/92	**COMPLTD:** 11/11/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SANDY CLAY: Moderate to dark red brown		SC	POSTHOLE	
	SB04-01-01		20/24	0ppm	SANDY CLAY: As above with more sand and trace coarse gravel		GC	8,17,16,12	
5			22/24	0ppm	SANDY SILT: Dark yellow brown		SM	4,5,8,8	
			12/24	10ppm	SANDY SILT: As above			6,7,6,6	
			18/24	2ppm	SANDY SILT: As above			6,6,7,6	
10			18/24	0ppm	SILTY SAND: Moderate red brown,fine graained,poorly graded			3,3,7,3	
	SB04-02-01		20/24	7ppm	SILTY SAND: Greyish red,poorly sorted			5,4,4,5	
15			24/24	0ppm	SILTY SAND: Greyish orange,poorly graded,loose with black angular gravel			4,3,3,3	
	SB04-03-01		22/24	10ppm	SAND: Very pale orange,medium grained,poorly gradded		SP	10,7,8,12	
20			20/24	3ppm	SAND: As above changing to pale red brown SAND with trace fine grains			8,11,10,15	
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB05
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 14FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm				POSTHOLE	
5	SB05-01-01		18/24	0ppm	SILTY SAND: Moderate red brown, fine grained, poorly graded		SM	PUSHED	
			12/24	2.5	SILTY SAND: As above with 1' zone of red grey silty ssand			PUSHED	
			18/24	8.0	SILTY SAND: Red grey with 3" gravel zone highest ova reading in gravel zone		GM	PUSHED	
10	SB05-02-01		18/24	12	SILTY SAND: Red grey as above with trace of gravel		SM	PUSHED	
			24/24	0ppm	SILTY SAND: Medium red, saturated			PUSHED	
15					NOTE: Split spoon's collected from WHF-20B-SB05 where pushed by rig do to dangerous weather conditions				
20									
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 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB06
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 14FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SILTY SAND: Dark yellow orange		SM	POSTHOLE	
5	SB06-01-01		24/24	<1.0	SILTY SAND: Dark yellow brown,fine grained,poorly graded,moist			PUSHED	
			18/24	<1.0	SILTY SAND: As above			PUSHED	
			18/24	0ppm	SILTY SAND: As above with 2" lense of black stained matereal over 3" lense of SAND: Moderate red			PUSHED	
10			12/24	0ppm	SILTY SAND : As above			PUSHED	
	SB06-02-01		12/24	0ppm	SAND: Moderate red brown,fine to medium grained,some silt		SP	PUSHED	
15					REFUSAL NOTE: Split spoon's collected from WHF-20B-SB06 where pushed by rig do to dangerous weather conditions				
20									
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 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: QLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-208-SB07
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 14FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 208

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SILTY SAND: Grey red 8" over moderate red		SM	POSTHOLE	
			24/24	4.0	SILTY SAND: Grey red,fine grained			PUSHED	
5	SB07-01-01		20/24	6.0	SILTY SAND: As above			PUSHED	
			10/24	0ppm	SILTY SAND: As above becoming GRAVEL: Well graded with angular grains @ 9.5'			PUSHED	
10	SB07-02-01		18/24	0ppm	GRAVEL: Well graded with debris (wire,glass)		GW	PUSHED	
			08/24	0ppm	GRAVEL: As above without debris			PUSHED	
15					NOTE: Split spoon's collected from WHF-208-SB07 where pushed by rig do to dangerous weather conditions				
20									
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB08
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/12/92	**COMPLTD:** 11/12/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SILTY SAND: Grey red		SM	POSTHOLE	
					SAND: Pale yellow orange,fine grained,poorly sorted		SP		
5	SB08-01-01		14/24	0ppm				PUSHED	
			18/24	0ppm	SAND: As above			PUSHED	
			10/24	0ppm	SAND: As above 12" over GRAVEL: Well graded,angular to rounded grains			PUSHED	
10					GRAVEL: Well graded,angular to rounded		GW		
			08/24	0ppm				PUSHED	
			08/24	0ppm	GRAVEL: As above			PUSHED	
15	SB08-02-01		12/24	0ppm	SAND: Moderate red brown,some silt		SP	PUSHED	
			12/24	0ppm	SAND: Pale yellow with brown streaks,fine grained			PUSHED	
	SB08-03-01		10/24	0ppm	SAND: As above 7" over SAND: Moderate red			PUSHED	
20									
					NOTE: Split spoon's collected from WHF-20B-SB08 where pushed by rig do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB09
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/10/92	**COMPLTD:** 11/10/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	CLAY: Grey red with trace sand CLAY: Moderate red brown		CL	POSTHOLE	
	SB09-01-01		20/24	0ppm	CLAY: Moderate red brown with trace sand			3,4,4,7	
5			22/24	0ppm	CLAY: As above			6,6,7,6	
			20/24	0ppm	CLAY: As above			3,3,3,4	
			20/24	0ppm	SANDY CLAY: Moderate red,very fine grained,poorly sorted		SC	3,4,6,6	
10			21/24	0ppm	SANDY CLAY: As above			4,4,5,7	
			22/24	0ppm	SANDY CLAY: As above with interbedded lenses of SAND: Pale yellow, fine to medium grained,poorly sorted			8,6,7,8	
15			20/24	0ppm	SANDY CLAY: As above			7,7,6,4	
			24/24	0ppm	SAND: Very pale orange,fine grained,poorly graded,		SP	3,3,5,7	
	SB09-02-01		24/24	2ppm	SILTY SAND: Moderate red brown,fine to medium grained,poorly graded		SM	8,8,9,10	
20									
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: QLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB10
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/10/92	**COMPLTD:** 11/10/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm			CL	POSTHOLE	
5			12/24	0ppm				1,1,3,4	
			18/24	0ppm	CLAY: Moderate red with trace to some fine to very fine sand			1,1,3,4	
			24/24	0ppm				8,8,7,8	
10	SB10-01-01		24/24	2ppm	SILTY SAND: Moderate red orange		SM	3,3,4,7	
			20/24	0ppm	SAND: Very fine to fine		SP	7,8,7,8	
15			20/24	0ppm	SAND: Pale orange,coares grained,sub-rounded			3,5,8,9	
			18/24	0ppm	SAND: Pale orange,lenses of coarse sand interbeded with medium to fine sand			7,8,7,7	
20	SB10-02-01		9/24	0.2	SILTY SAND: Dark red brown staining,medium to trace coarse sand		SM	12,8,11,12	
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB11
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/10/92	**COMPLTD:** 11/10/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SANDY CLAY: Medium red brown becoming dark yellow orange		SC	POSTHOLE	
5			12/24	0ppm			SM	1,2,2,1	
			14/24	0ppm	SILTY SAND: Moderate red brown, fine grained, poorly graded			1,1,1,1	
			14/24	0ppm			GM	2,2,2,2	
10	SB11-01-01		18/24	0ppm	GRAVELY SILTY SAND: Dark red brown with 3" lense of dark red brown coarse to gravel angulars (brick rubbel) AS ABOVE: With color change to moderate red orange			8,8,7,8	
			18/24	0ppm			SM	3,4,8,8	
15			20/24	0ppm	SILTY SAND: Moderate red orange, poorly graded, sub-angular		SP	PUSHED	
			18/24	0ppm	SAND: Pale orange, fine grained, poorly graded, subrounded			PUSHED	
20	SB11-02-01		20/24	8ppm	SAND: Very pale orange, medium grained, poorly graded to sub-rounded, moist to very moist lower 3" of borehole			PUSHED	
					NOTE: Split spoons collected from 14' to 20' where pushed by rig do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB12
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/11/92	**COMPLTD:** 11/11/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 18FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SILTY SAND: Moderate red brown, fine grained, poorly graded		SM	POSTHOLE	
	SB12-01-01		18/24	0ppm				PUSHED	
5			10/24	0ppm	SILTY SAND: As above			PUSHED	
			18/24	0ppm				PUSHED	
			18/24	0ppm	SILTY SAND: Very fine grained, more silt			PUSHED	
10			18/24	0ppm				PUSHED	
			18/24	1ppm	SILTY SAND: As above with lenses of pale yellow silty sand			PUSHED	
15	SB12-02-01		18/24	0ppm	SILTY SAND: As above with lenses of pale yellow silty sand			PUSHED	
			8/24	1ppm				PUSHED	
					SAND: Pale yellow orange, fine to medium grained		SP		
20					NOTE: Split spoon's collected from WHF-20B-SB12 where pushed by rig do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB13
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/11/92	**COMPLTD:** 11/11/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 18FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					CONCRETE				
				0ppm	SILTY SAND: Dark red brown,fine grained,poorly graded		SM	POSTHOLE	
	SB13-01-D1		22/24	0ppm	SILTY SAND: Moderate red brown,fine grained,poorly graded			PUSHED	
5			22/24	0ppm	SANDY SILT: Moderate red brown,fine to very fine grained			PUSHED	
			20/24	0ppm	SANDY SILT: As above with black staining @ 6.5'			PUSHED	
			18/24	0ppm	SILTY SAND: Moderate red brown,very fine grained			PUSHED	
10			18/24	0ppm	SILTY SAND: Moderate red brown,fine to medium grained			PUSHED	
			N/A	0ppm	SILTY SAND: As above			PUSHED	
15			20/24	0ppm	SAND: Modderate red orange,medium grained		SP	PUSHED	
			20/24	0ppm	SAND: becoming very pale orange,fine to medium grained,poorly graded, sub-angular,moist			PUSHED	
20					NOTE: Split spoon's collected from WHF-20B-SB13 where pushed by rig do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: QLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB14
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/11/92	**COMPLTD:** 11/11/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 19FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					CONCRETE:			CONCRETE	
				0ppm	SILTY SAND: Moderate red orange,fine grained,poorly graded		SM	POSTHOLE	
	SB14-01-01		14/24	0ppm	SILTY SAND: Dark yellow,fine grained,poorly graded			1,2,1,1	
5			20/24	0ppm	SANDY SILT: Moderate red orange,very fine grained,poorly graded			1,3,5,6	
			22/24	0ppm	SANDY SILT: As above			4,3,3,3	
10			22/24	0ppm	SANDY SILT: As above with color change to dark yellow orange			5,2,4,5	
			20/24	0ppm	SILTY SAND: Red brown			3,4,5,7	
			16/24	0ppm	SILTY SAND: Dark yellow orange			3,7,7,9	
15	SB14-02-01		18/24	1ppm	SILTY SAND: As above			5,6,7,8	
			22/24	0ppm	SILTY SAND: As above,moist			5,8,8,9	
20									
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: QLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB15
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/10/92	**COMPLTD:** 11/10/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 18FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0ppm	SILTY SAND: Greyish red		SM	POSTHOLE	
	SB15-01-01		22/24	0ppm				3,2,3,2	
5			22/24	0ppm	SILTY SAND: Pale red brown,very fine grained,very poorly graded			2,2,5,5	
			22/24	0ppm				5,5,8,8	
			24/24	0ppm				4,4,4,3	
10			18/24	0ppm	SILTY SAND: Color change to moderate red brown,very fine grained, very poorly graded			PUSHED	
			18/24	0ppm	SILTY SAND: Color change to very pale orange			PUSHED	
15	SB15-02-01		18/24	0ppm	SAND: Medium grained,poorly sorteed		SP	PUSHED	
			12/24	0ppm	SAND: Coarse sand,wet			PUSHED	
20					NOTE: Split spoons collected from 10'to 18' where pushed by rig do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: OLF BARIN Foley, Alabama		**LOG of WELL:**	**BORING NO.** WHF-20B-SB16
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 07579-03
CONTRACTOR: Groundwater Protection		**DATE STARTED:** 11/11/92	**COMPLTD:** 11/11/92
METHOD: 4.25 H.S.A	**CASE SIZE:** N/A	**SCREEN INT.:** N/A	**PROTECTION LEVEL:** D
TOC ELEV.: N/A FT.	**MONITOR INST.:** OVA	**TOT DPTH:** 20FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: S.CONSAVI	**WELL DEVELOPMENT DATE:** N/A		**SITE:** 20B

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					ASPHALT		SM		
				0ppm	SILTY SAND: Medium brown			POSTHOLE	
	SB16-01-01		20/24	0ppm	SILTY SAND: Medium red orange,Fine grained,poorly graded			4,4,3,4	
5			16/24	0ppm	SANDY SILT: Moderate red orange,fine grained,poorly graded			3,4,5,2	
			N/A	0ppm					
			N/A	0ppm	SANDY SILT: As above			4,5,5,7	
10			N/A	0ppm	SANDY SILT: As above			6,6,6,7	
			N/A	0ppm	SILTY SAND: Pale yellow orange,fine grained			5,6,6,7	
15			N/A	0ppm	SILTY SAND: As above			6,6,5,6	
	SB16-02-01		16/24	0ppm	SILTY SAND: As above			PUSHED	
20			12/24	0ppm	SAND: Very pale orange with brown streaking,fine to medium grained		SP	PUSHED	
					NOTE: Split spoon's collected from 18'-18 & 18'-20' where pushed do to dangerous weather conditions				
25									

 ABB ENVIRONMENTAL SERVICES, INC.

APPENDIX B

LABORATORY ANALYTICAL RESULTS

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387001	Sample Matrix:	SOIL	Date Analyzed:	11/22/92
Client Sample ID:	20BSB01S1	Percent Moisture:	55.3	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	22	U	10061-02-6	trans-1,3-Dichloropropene	11	U
74-83-9	Bromomethane	22	U	75-25-2	Bromoform	11	U
75-01-4	Vinyl chloride	22	U	591-78-6	2-Hexanone	22	U
75-00-3	Chloroethane	22	U	108-10-1	4-Methyl-2-pentanone . . .	22	U
75-09-2	Methylene chloride	8	BJ	127-18-4	Tetrachloroethene	11	U
67-64-1	Acetone	22	U	79-34-5	1,1,2,2-Tetrachloroethane	11	U
75-15-0	Carbon disulfide	11	U	108-88-3	Toluene	11	U
75-35-4	1,1-Dichloroethene	11	U	108-90-7	Chlorobenzene	11	U
75-34-3	1,1-Dichloroethane	11	U	100-41-4	Ethylbenzene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U	100-42-5	Styrene	11	U
67-66-3	Chloroform	11	U	1330-20-7	Xylenes (total)	11	U
107-06-2	1,2-Dichloroethane	11	U		---		
78-93-3	2-Butanone	22	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	11	U		1,4-Bromofluorobenzene - SS	95	
56-23-5	Carbon tetrachloride . . .	11	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	22	U				
75-27-4	Bromodichloromethane . . .	11	U				
78-87-5	1,2-Dichloropropane . . .	11	U				
10061-01-5	cis-1,3-Dichloropropene .	11	U				
79-01-6	Trichloroethene	11	U				
124-48-1	Dibromochloromethane . . .	11	U				
79-00-5	1,1,2-Trichloroethane . .	11	U				
71-43-2	Benzene	11	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387002	Sample Matrix:	SOIL	Date Analyzed:	11/22/92
Client Sample ID:	20BSB01S2	Percent Moisture:	14.4	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	12	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	12	U	591-78-6	2-Hexanone	12	
75-00-3	Chloroethane	12	U	108-10-1	4-Methyl-2-pentanone . . .	12	
75-09-2	Methylene chloride	4	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	17		79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	12	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	95	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	12	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387003	Sample Matrix:	WATER	Date Analyzed:	11/21/92
Client Sample ID:	20BSBFB01	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	5	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	11		79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	99	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34387K04
Client Sample ID: 20BSBT01

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/21/92
Dilution Factor: 1.0

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	B
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	99	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000029

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387005	Sample Matrix:	WATER	Date Analyzed:	11/21/92
Client Sample ID:	20BSBR01	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	4	BJ	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	2	J	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		----------		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34387006
Client Sample ID: 20BSBR02

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/21/9?
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	4	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane . .	5	U
56-23-5	Carbon tetrachloride . . .	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane . . .	5	U
78-87-5	1,2-Dichloropropane . . .	5	U
10061-01-5	cis-1,3-Dichloropropene .	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane . . .	5	U
79-00-5	1,1,2-Trichloroethane . .	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	
108-10-1	4-Methyl-2-pentanone . . .	10	
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	

	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	98	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387007	Sample Matrix:	SOIL	Date Analyzed:	11/22/92
Client Sample ID:	20BSB1001	Percent Moisture:	11.4	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	3	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	9	BJ	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	93	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	94	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387008	Sample Matrix:	SOIL	Date Analyzed:	11/22/9?
Client Sample ID:	20BSB1002	Percent Moisture:	10.7	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	
75-09-2	Methylene chloride	3	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	68	B	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	94	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	98	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387009	Sample Matrix:	SOIL	Date Analyzed:	11/22/92
Client Sample ID:	20BSB1101	Percent Moisture:	12.4	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	2	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	44	B	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	95	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	89	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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916.244.5227
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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387010	Sample Matrix:	SOIL	Date Analyzed:	11/22/9
Client Sample ID:	20BSB11102	Percent Moisture:	7.8	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone	11	
75-09-2	Methylene chloride	2	BJ	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	5	BJ	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U				
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	98	
71-55-6	1,1,1-Trichloroethane	5	U		1,4-Bromofluorobenzene - SS	93	
56-23-5	Carbon tetrachloride	5	U		1,2-Dichloroethane-d4 - SS	92	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane	5	U				
78-87-5	1,2-Dichloropropane	5	U				
10061-01-5	cis-1,3-Dichloropropene	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane	5	U				
79-00-5	1,1,2-Trichloroethane	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
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FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387011	Sample Matrix:	SOIL	Date Analyzed:	11/22/92
Client Sample ID:	20BSB1501	Percent Moisture:	9.3	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	3	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	88	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	92	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387012	Sample Matrix:	SOIL	Date Analyzed:	11/22/9?
Client Sample ID:	20BSB1502	Percent Moisture:	7.9	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	
75-09-2	Methylene chloride	2	BJ	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	4	BJ	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	98	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	93	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	94	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387013	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0201	Percent Moisture:	11.7	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	3	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	6	BJ	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		----------		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	95	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	92	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34387014
Client Sample ID: 20BSB0202

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 11.8

Date Extracted:
Date Analyzed: 11/23/9?
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	3	BJ
67-64-1	Acetone	13	B
75-15-0	Carbon disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon tetrachloride	6	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
591-78-6	2-Hexanone	11	
108-10-1	4-Methyl-2-pentanone	11	
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	
108-90-7	Chlorobenzene	6	
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylenes (total)	6	

	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	96	
	1,2-Dichloroethane-d4 - SS	96	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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CH2M HILL Quality Analytical Laboratory
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FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34387K15	Sample Matrix:	WATER	Date Analyzed:	11/21/92
Client Sample ID:	20BSBT02	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone	10	U
75-09-2	Methylene chloride	4	BJ	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	4	J	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U				
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane	5	U		1,4-Bromofluorobenzene - SS	99	
56-23-5	Carbon tetrachloride	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane	5	U				
78-87-5	1,2-Dichloropropane	5	U				
10061-01-5	cis-1,3-Dichloropropene	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane	5	U				
79-00-5	1,1,2-Trichloroethane	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: VBLKW1

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/21/9
Dilution Factor: 1.0

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	
591-78-6	2-Hexanone	10	
108-10-1	4-Methyl-2-pentanone	10	U
127-18-4	Tetrachloroethene	5	"
79-34-5	1,1,2,2-Tetrachloroethane	5	
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	"
100-42-5	Styrene	5	
1330-20-7	Xylenes (total)	5	U
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	98	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	SOIL	Date Analyzed:	11/21/92
Client Sample ID:	VBLKS1	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	4	BJ	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	98	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: VBLKS2

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture:

Date Extracted:
Date Analyzed: 11/22/92
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	2	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	
108-10-1	4-Methyl-2-pentanone	10	
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	

	Toluene-d8 - SS	99	
	1,4-Bromofluorobenzene - SS	97	
	1,2-Dichloroethane-d4 - SS	95	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000043

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/16/92
Lab Sample ID:	34387003	Sample Matrix:	WATER	Date Analyzed:	11/20/92
Client Sample ID:	20BSBFB01	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
111-44-4	bis(2-Chloroethyl)ether .	10	U	84-66-2	Diethylphthalate	10	U
95-57-8	2-Chlorophenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
541-73-1	1,3-Dichlorobenzene . . .	10	U	86-73-7	Fluorene	10	U
106-46-7	1,4-Dichlorobenzene . . .	10	U	100-01-6	4-Nitroaniline	50	U
100-51-6	Benzyl alcohol	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
95-50-1	1,2-Dichlorobenzene . . .	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
95-48-7	2-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U	118-74-1	Hexachlorobenzene	10	U
106-44-5	4-Methylphenol	10	U	87-86-5	Pentachlorophenol	50	U
621-64-7	N-Nitroso-di-n-propylamine	10	U	85-01-8	Phenanthrene	10	U
67-72-1	Hexachloroethane	10	U	120-12-7	Anthracene	10	U
98-95-3	Nitrobenzene	10	U	84-74-2	Di-n-butylphthalate . . .	2	J
78-59-1	Isophorone	10	U	206-44-0	Fluoranthene	10	U
88-75-5	2-Nitrophenol	10	U	129-00-0	Pyrene	10	U
105-67-9	2,4-Dimethylphenol	10	U	85-68-7	Butylbenzylphthalate . . .	10	U
65-85-0	Benzoic acid	50	U	91-94-1	3,3'-Dichlorobenzidine . .	20	U
111-91-1	bis(2-Chloroethoxy)methane	10	U	56-55-3	Benzo(a)anthracene	10	U
120-83-2	2,4-Dichlorophenol	10	U	218-01-9	Chrysene	10	U
120-82-1	1,2,4-Trichlorobenzene . .	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	10	U
91-20-3	Naphthalene	10	U	117-84-0	Di-n-octylphthalate . . .	10	U
106-47-8	4-Chloroaniline	10	U	205-99-2	Benzo(b)fluoranthene . . .	10	U
87-68-3	Hexachlorobutadiene . . .	10	U	207-08-9	Benzo(k)fluoranthene . . .	10	U
59-50-7	4-Chloro-3-methylphenol .	10	U	50-32-8	Benzo(a)pyrene	10	U
91-57-6	2-Methylnaphthalene . . .	10	U	193-39-5	Indeno(1,2,3-cd)pyrene . .	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	53-70-3	Dibenz(a,h)anthracene . .	10	U
88-06-2	2,4,6-Trichlorophenol . .	10	U	191-24-2	Benzo(g,h,i)perylene . . .	10	U
95-95-4	2,4,5-Trichlorophenol . .	50	U		---		
91-58-7	2-Chloronaphthalene . . .	10	U		Nitrobenzene-d5 - SS . . .	93	
88-74-4	2-Nitroaniline	50	U		2-Fluorobiphenyl - SS . .	94	
131-11-3	Dimethylphthalate	10	U		Terphenyl-d14 - SS	100	
208-96-8	Acenaphthylene	10	U		Phenol-d5 - SS	82	
606-20-2	2,6-Dinitrotoluene	10	U		2-Fluorophenol - SS . . .	79	
99-09-2	3-Nitroaniline	50	U		2,4,6-Tribromophenol - SS	87	
83-32-9	Acenaphthene	10	U				
51-28-5	2,4-Dinitrophenol	50	U				
100-02-7	4-Nitrophenol	50	U				
132-64-9	Dibenzofuran	10	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/16/92
Lab Sample ID:	34387005	Sample Matrix:	WATER	Date Analyzed:	11/21/92
Client Sample ID:	20BSBR01	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
111-44-4	bis(2-Chloroethyl)ether .	10	U	84-66-2	Diethylphthalate	10	U
95-57-8	2-Chlorophenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
541-73-1	1,3-Dichlorobenzene . . .	10	U	86-73-7	Fluorene	10	U
106-46-7	1,4-Dichlorobenzene . . .	10	U	100-01-6	4-Nitroaniline	50	U
100-51-6	Benzyl alcohol	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
95-50-1	1,2-Dichlorobenzene . . .	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
95-48-7	2-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U	118-74-1	Hexachlorobenzene	10	U
106-44-5	4-Methylphenol	10	U	87-86-5	Pentachlorophenol	50	U
621-64-7	N-Nitroso-di-n-propylamine	10	U	85-01-8	Phenanthrene	10	U
67-72-1	Hexachloroethane	10	U	120-12-7	Anthracene	10	U
98-95-3	Nitrobenzene	10	U	84-74-2	Di-n-butylphthalate . . .	2	J
78-59-1	Isophorone	10	U	206-44-0	Fluoranthene	10	U
88-75-5	2-Nitrophenol	10	U	129-00-0	Pyrene	10	U
105-67-9	2,4-Dimethylphenol	10	U	85-68-7	Butylbenzylphthalate . . .	10	U
65-85-0	Benzoic acid	50	U	91-94-1	3,3'-Dichlorobenzidine . .	20	U
111-91-1	bis(2-Chloroethoxy)methane	10	U	56-55-3	Benzo(a)anthracene	10	U
120-83-2	2,4-Dichlorophenol	10	U	218-01-9	Chrysene	10	U
120-82-1	1,2,4-Trichlorobenzene . .	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	2	J
91-20-3	Naphthalene	10	U	117-84-0	Di-n-octylphthalate . . .	10	U
106-47-8	4-Chloroaniline	10	U	205-99-2	Benzo(b)fluoranthene . . .	10	
87-68-3	Hexachlorobutadiene . . .	10	U	207-08-9	Benzo(k)fluoranthene . . .	10	U
59-50-7	4-Chloro-3-methylphenol .	10	U	50-32-8	Benzo(a)pyrene	10	U
91-57-6	2-Methylnaphthalene . . .	10	U	193-39-5	Indeno(1,2,3-cd)pyrene . .	10	
77-47-4	Hexachlorocyclopentadiene	10	U	53-70-3	Dibenz(a,h)anthracene . .	10	
88-06-2	2,4,6-Trichlorophenol . .	10	U	191-24-2	Benzo(g,h,i)perylene . . .	10	U
95-95-4	2,4,5-Trichlorophenol . .	50	U		---		
91-58-7	2-Chloronaphthalene . . .	10	U		Nitrobenzene-d5 - SS . . .	89	
88-74-4	2-Nitroaniline	50	U		2-Fluorobiphenyl - SS . .	93	
131-11-3	Dimethylphthalate	10	U		Terphenyl-d14 - SS	110	
208-96-8	Acenaphthylene	10	U		Phenol-d5 - SS	79	
606-20-2	2,6-Dinitrotoluene	10	U		2-Fluorophenol - SS . . .	75	
99-09-2	3-Nitroaniline	50	U		2,4,6-Tribromophenol - SS	89	
83-32-9	Acenaphthene	10	U				
51-28-5	2,4-Dinitrophenol	50	U				
100-02-7	4-Nitrophenol	50	U				
132-64-9	Dibenzofuran	10	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/16/92
Lab Sample ID:	34387006	Sample Matrix:	WATER	Date Analyzed:	11/21/92
Client Sample ID:	20BSBR02	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U	84-66-2	Diethylphthalate	10	U
95-57-8	2-Chlorophenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
541-73-1	1,3-Dichlorobenzene	10	U	86-73-7	Fluorene	10	U
106-46-7	1,4-Dichlorobenzene	10	U	100-01-6	4-Nitroaniline	50	U
100-51-6	Benzyl alcohol	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
95-50-1	1,2-Dichlorobenzene	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
95-48-7	2-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U	118-74-1	Hexachlorobenzene	10	U
106-44-5	4-Methylphenol	10	U	87-86-5	Pentachlorophenol	50	U
621-64-7	N-Nitroso-di-n-propylamine	10	U	85-01-8	Phenanthrene	10	U
67-72-1	Hexachloroethane	10	U	120-12-7	Anthracene	10	U
98-95-3	Nitrobenzene	10	U	84-74-2	Di-n-butylphthalate	3	J
78-59-1	Isophorone	10	U	206-44-0	Fluoranthene	10	U
88-75-5	2-Nitrophenol	10	U	129-00-0	Pyrene	10	U
105-67-9	2,4-Dimethylphenol	10	U	85-68-7	Butylbenzylphthalate	10	U
65-85-0	Benzoic acid	50	U	91-94-1	3,3'-Dichlorobenzidine	20	U
111-91-1	bis(2-Chloroethoxy)methane	10	U	56-55-3	Benzo(a)anthracene	10	U
120-83-2	2,4-Dichlorophenol	10	U	218-01-9	Chrysene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	10	U
91-20-3	Naphthalene	10	U	117-84-0	Di-n-octylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	205-99-2	Benzo(b)fluoranthene	10	U
87-68-3	Hexachlorobutadiene	10	U	207-08-9	Benzo(k)fluoranthene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U	50-32-8	Benzo(a)pyrene	10	U
91-57-6	2-Methylnaphthalene	10	U	193-39-5	Indeno(1,2,3-cd)pyrene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	53-70-3	Dibenz(a,h)anthracene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	191-24-2	Benzo(g,h,i)perylene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U				
91-58-7	2-Chloronaphthalene	10	U		Nitrobenzene-d5 - SS	94	
88-74-4	2-Nitroaniline	50	U		2-Fluorobiphenyl - SS	93	
131-11-3	Dimethylphthalate	10	U		Terphenyl-d14 - SS	110	
208-96-8	Acenaphthylene	10	U		Phenol-d5 - SS	80	
606-20-2	2,6-Dinitrotoluene	10	U		2-Fluorophenol - SS	58	
99-09-2	3-Nitroaniline	50	U		2,4,6-Tribromophenol - SS	42	
83-32-9	Acenaphthene	10	U				
51-28-5	2,4-Dinitrophenol	50	U				
100-02-7	4-Nitrophenol	50	U				
132-64-9	Dibenzofuran	10	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34387013	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0201	Percent Moisture:	11.7	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	bis(2-Chloroisopropyl)ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	370	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	
86-73-7	Fluorene	370	
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	370	
101-55-3	4-Bromophenyl-phenylether	370	
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	370	
120-12-7	Anthracene	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	
129-00-0	Pyrene	370	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)anthracene	370	
218-01-9	Chrysene	370	
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	
53-70-3	Dibenz(a,h)anthracene	370	
191-24-2	Benzo(g,h,i)perylene	370	U
	Nitrobenzene-d5 - SS	81	
	2-Fluorobiphenyl - SS	88	
	Terphenyl-d14 - SS	100	
	Phenol-d5 - SS	74	
	2-Fluorophenol - SS	75	
	2,4,6-Tribromophenol - SS	93	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34387014	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0202	Percent Moisture:	11.8	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	370	U	121-14-2	2,4-Dinitrotoluene	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U	84-66-2	Diethylphthalate	370	U
95-57-8	2-Chlorophenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
541-73-1	1,3-Dichlorobenzene	370	U	86-73-7	Fluorene	370	U
106-46-7	1,4-Dichlorobenzene	370	U	100-01-6	4-Nitroaniline	1800	U
100-51-6	Benzyl alcohol	370	U	534-52-1	4,6-Dinitro-2-methylphenol	1800	U
95-50-1	1,2-Dichlorobenzene	370	U	86-30-6	N-Nitrosodiphenylamine (1)	370	U
95-48-7	2-Methylphenol	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
108-60-1	bis(2-Chloroisopropyl)ether	370	U	118-74-1	Hexachlorobenzene	370	U
106-44-5	4-Methylphenol	370	U	87-86-5	Pentachlorophenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	370	U	85-01-8	Phenanthrene	370	U
67-72-1	Hexachloroethane	370	U	120-12-7	Anthracene	370	U
98-95-3	Nitrobenzene	370	U	84-74-2	Di-n-butylphthalate	370	U
78-59-1	Isophorone	370	U	206-44-0	Fluoranthene	370	U
88-75-5	2-Nitrophenol	370	U	129-00-0	Pyrene	370	U
105-67-9	2,4-Dimethylphenol	370	U	85-68-7	Butylbenzylphthalate	370	U
65-85-0	Benzoic acid	1800	U	91-94-1	3,3'-Dichlorobenzidine	750	U
111-91-1	bis(2-Chloroethoxy)methane	370	U	56-55-3	Benzo(a)anthracene	370	U
120-83-2	2,4-Dichlorophenol	370	U	218-01-9	Chrysene	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U	117-81-7	bis(2-Ethylhexyl)phthalate	370	U
91-20-3	Naphthalene	370	U	117-84-0	Di-n-octylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	205-99-2	Benzo(b)fluoranthene	370	U
87-68-3	Hexachlorobutadiene	370	U	207-08-9	Benzo(k)fluoranthene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U	50-32-8	Benzo(a)pyrene	370	U
91-57-6	2-Methylnaphthalene	370	U	193-39-5	Indeno(1,2,3-cd)pyrene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U	53-70-3	Dibenz(a,h)anthracene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	191-24-2	Benzo(g,h,i)perylene	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U				
91-58-7	2-Chloronaphthalene	370	U		Nitrobenzene-d5 - SS	86	
88-74-4	2-Nitroaniline	1800	U		2-Fluorobiphenyl - SS	90	
131-11-3	Dimethylphthalate	370	U		Terphenyl-d14 - SS	100	
208-96-8	Acenaphthylene	370	U		Phenol-d5 - SS	71	
606-20-2	2,6-Dinitrotoluene	370	U		2-Fluorophenol - SS	78	
99-09-2	3-Nitroaniline	1800	U		2,4,6-Tribromophenol - SS	100	
83-32-9	Acenaphthene	370	U				
51-28-5	2,4-Dinitrophenol	1800	U				
100-02-7	4-Nitrophenol	1800	U				
132-64-9	Dibenzofuran	370	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: SBLKW1

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 11/16/92
Date Analyzed: 11/20/92
Dilution Factor: 1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

CAS Number		ug/L	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
	Nitrobenzene-d5 - SS	90	
	2-Fluorobiphenyl - SS	92	
	Terphenyl-d14 - SS	100	
	Phenol-d5 - SS	82	
	2-Fluorophenol - SS	82	
	2,4,6-Tribromophenol - SS	83	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4100

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	SBLKS1	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	330	U	121-14-2	2,4-Dinitrotoluene	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U	84-66-2	Diethylphthalate	330	U
95-57-8	2-Chlorophenol	330	U	7005-72-3	4-Chlorophenyl-phenylether	330	U
541-73-1	1,3-Dichlorobenzene	330	U	86-73-7	Fluorene	330	U
106-46-7	1,4-Dichlorobenzene	330	U	100-01-6	4-Nitroaniline	1600	U
100-51-6	Benzyl alcohol	330	U	534-52-1	4,6-Dinitro-2-methylphenol	1600	U
95-50-1	1,2-Dichlorobenzene	330	U	86-30-6	N-Nitrosodiphenylamine (1)	330	U
95-48-7	2-Methylphenol	330	U	101-55-3	4-Bromophenyl-phenylether	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U	118-74-1	Hexachlorobenzene	330	U
106-44-5	4-Methylphenol	330	U	87-86-5	Pentachlorophenol	1600	U
621-64-7	N-Nitroso-di-n-propylamine	330	U	85-01-8	Phenanthrene	330	U
67-72-1	Hexachloroethane	330	U	120-12-7	Anthracene	330	U
98-95-3	Nitrobenzene	330	U	84-74-2	Di-n-butylphthalate	330	U
78-59-1	Isophorone	330	U	206-44-0	Fluoranthene	330	U
88-75-5	2-Nitrophenol	330	U	129-00-0	Pyrene	330	U
105-67-9	2,4-Dimethylphenol	330	U	85-68-7	Butylbenzylphthalate	330	U
65-85-0	Benzoic acid	1600	U	91-94-1	3,3'-Dichlorobenzidine	660	U
111-91-1	bis(2-Chloroethoxy)methane	330	U	56-55-3	Benzo(a)anthracene	330	U
120-83-2	2,4-Dichlorophenol	330	U	218-01-9	Chrysene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U	117-81-7	bis(2-Ethylhexyl)phthalate	330	U
91-20-3	Naphthalene	330	U	117-84-0	Di-n-octylphthalate	330	U
106-47-8	4-Chloroaniline	330	U	205-99-2	Benzo(b)fluoranthene	330	U
87-68-3	Hexachlorobutadiene	330	U	207-08-9	Benzo(k)fluoranthene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U	50-32-8	Benzo(a)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U	193-39-5	Indeno(1,2,3-cd)pyrene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U	53-70-3	Dibenz(a,h)anthracene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U	191-24-2	Benzo(g,h,i)perylene	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U				
91-58-7	2-Chloronaphthalene	330	U		Nitrobenzene-d5 - SS	81	
88-74-4	2-Nitroaniline	1600	U		2-Fluorobiphenyl - SS	87	
131-11-3	Dimethylphthalate	330	U		Terphenyl-d14 - SS	96	
208-96-8	Acenaphthylene	330	U		Phenol-d5 - SS	72	
606-20-2	2,6-Dinitrotoluene	330	U		2-Fluorophenol - SS	71	
99-09-2	3-Nitroaniline	1600	U		2,4,6-Tribromophenol - SS	90	
83-32-9	Acenaphthene	330	U				
51-28-5	2,4-Dinitrophenol	1600	U				
100-02-7	4-Nitrophenol	1600	U				
132-64-9	Dibenzofuran	330	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399001	Sample Matrix:	SOIL	Date Analyzed:	11/23/9?
Client Sample ID:	20BSB0901	Percent Moisture:	11.6	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	
75-09-2	Methylene chloride	6	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	
107-06-2	1,2-Dichloroethane	6	U		----------		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4?09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399002	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0902	Percent Moisture:	8.2	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	4	BJ	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	2	J	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		----------		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	98	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	97	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399003	Sample Matrix:	SOIL	Date Analyzed:	11/23/9?
Client Sample ID:	20BSB0401	Percent Moisture:	8.8	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	
75-09-2	Methylene chloride	7	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	87	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	97	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
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916.244.5227
FAX 916.244.4'^9

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399004	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0402	Percent Moisture:	8.8	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	8	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	92	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399005	Sample Matrix:	SOIL	Date Analyzed:	11/23/9^
Client Sample ID:	20BSB0403	Percent Moisture:	6.3	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	
75-09-2	Methylene chloride	6	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	96	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399K06	Sample Matrix:	WATER	Date Analyzed:	11/23/92
Client Sample ID:	20BSBT03	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	15	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		----------		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	98	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	97	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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BL

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399007	Sample Matrix:	WATER	Date Analyzed:	11/23/92
Client Sample ID:	20BSBR03	Percent Moisture:		Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	
75-09-2	Methylene chloride	18	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		----------		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	99	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	99	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399008	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0302	Percent Moisture:	24.1	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	13	U	10061-02-6	trans-1,3-Dichloropropene	7	U
74-83-9	Bromomethane	13	U	75-25-2	Bromoform	7	U
75-01-4	Vinyl chloride	13	U	591-78-6	2-Hexanone	13	U
75-00-3	Chloroethane	13	U	108-10-1	4-Methyl-2-pentanone . . .	13	U
75-09-2	Methylene chloride	9	B	127-18-4	Tetrachloroethene	7	U
67-64-1	Acetone	4	J	79-34-5	1,1,2,2-Tetrachloroethane	7	U
75-15-0	Carbon disulfide	7	U	108-88-3	Toluene	7	U
75-35-4	1,1-Dichloroethene	7	U	108-90-7	Chlorobenzene	7	U
75-34-3	1,1-Dichloroethane	7	U	100-41-4	Ethylbenzene	7	U
540-59-0	1,2-Dichloroethene (total)	7	U	100-42-5	Styrene	7	U
67-66-3	Chloroform	7	U	1330-20-7	Xylenes (total)	7	U
107-06-2	1,2-Dichloroethane	7	U		---		
78-93-3	2-Butanone	13	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	7	U		1,4-Bromofluorobenzene - SS	86	
56-23-5	Carbon tetrachloride . . .	7	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	13	U				
75-27-4	Bromodichloromethane . . .	7	U				
78-87-5	1,2-Dichloropropane . . .	7	U				
10061-01-5	cis-1,3-Dichloropropene .	7	U				
79-01-6	Trichloroethene	7	U				
124-48-1	Dibromochloromethane . . .	7	U				
79-00-5	1,1,2-Trichloroethane . .	7	U				
71-43-2	Benzene	7	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399009	Sample Matrix:	SOIL	Date Analyzed:	11/23/9
Client Sample ID:	20BSB0301	Percent Moisture:	20.8	Dilution Factor:	1

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	13	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	13	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	13	U	591-78-6	2-Hexanone	13	U
75-00-3	Chloroethane	13	U	108-10-1	4-Methyl-2-pentanone . . .	13	J
75-09-2	Methylene chloride	11	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	13	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	92	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	13	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399010	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB1401	Percent Moisture:	20.7	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	13	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	13	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	13	U	591-78-6	2-Hexanone	13	U
75-00-3	Chloroethane	13	U	108-10-1	4-Methyl-2-pentanone	13	U
75-09-2	Methylene chloride	10	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	13	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane	6	U		1,4-Bromofluorobenzene - SS	92	
56-23-5	Carbon tetrachloride	6	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	13	U				
75-27-4	Bromodichloromethane	6	U				
78-87-5	1,2-Dichloropropane	6	U				
10061-01-5	cis-1,3-Dichloropropene	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane	6	U				
79-00-5	1,1,2-Trichloroethane	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399011	Sample Matrix:	SOIL	Date Analyzed:	11/23/9
Client Sample ID:	20BSB1402	Percent Moisture:	8.7	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	
75-09-2	Methylene chloride	7	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	3	J	79-34-5	1,1,2,2-Tetrachloroethane	5	
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	98	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	99	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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CH2M HILL Quality Analytical Laboratory
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FAX 916.244.4 9

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399012	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB1601	Percent Moisture:	11.7	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone	11	U
75-09-2	Methylene chloride	8	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane	6	U		1,4-Bromofluorobenzene - SS	99	
56-23-5	Carbon tetrachloride	6	U		1,2-Dichloroethane-d4 - SS	98	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane	6	U				
78-87-5	1,2-Dichloropropane	6	U				
10061-01-5	cis-1,3-Dichloropropene	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane	6	U				
79-00-5	1,1,2-Trichloroethane	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399013	Sample Matrix:	SOIL	Date Analyzed:	11/23/9
Client Sample ID:	20BSB1602	Percent Moisture:	12.7	Dilution Factor:	1

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	J
75-09-2	Methylene chloride	12	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	3	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	99	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	96	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399014	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB1301	Percent Moisture:	8.9	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	10	B
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	11	U
108-10-1	4-Methyl-2-pentanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U
	Toluene-d8 - SS	110	
	1,4-Bromofluorobenzene - SS	91	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34399015	Sample Matrix:	SOIL	Date Analyzed:	11/23/9
Client Sample ID:	20BSB1302	Percent Moisture:	9.4	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	12	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	3	J	79-34-5	1,1,2,2-Tetrachloroethane	6	
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	VBLKS1	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone	10	U
75-09-2	Methylene chloride	6	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	99	
71-55-6	1,1,1-Trichloroethane	5	U		1,4-Bromofluorobenzene - SS	99	
56-23-5	Carbon tetrachloride	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane	5	U				
78-87-5	1,2-Dichloropropane	5	U				
10061-01-5	cis-1,3-Dichloropropene	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane	5	U				
79-00-5	1,1,2-Trichloroethane	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
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ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: VBLKW1

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/23/9
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	15	B
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane . .	5	U
56-23-5	Carbon tetrachloride . . .	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane . . .	5	U
78-87-5	1,2-Dichloropropane . . .	5	U
10061-01-5	cis-1,3-Dichloropropene .	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane . . .	5	U
79-00-5	1,1,2-Trichloroethane . .	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	
108-10-1	4-Methyl-2-pentanone . . .	10	
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	
1330-20-7	Xylenes (total)	5	

	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	99	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34399003	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0401	Percent Moisture:	8.8	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	360	U	121-14-2	2,4-Dinitrotoluene	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U	84-66-2	Diethylphthalate	360	U
95-57-8	2-Chlorophenol	360	U	7005-72-3	4-Chlorophenyl-phenylether	360	U
541-73-1	1,3-Dichlorobenzene	360	U	86-73-7	Fluorene	360	U
106-46-7	1,4-Dichlorobenzene	360	U	100-01-6	4-Nitroaniline	1800	U
100-51-6	Benzyl alcohol	360	U	534-52-1	4,6-Dinitro-2-methylphenol	1800	U
95-50-1	1,2-Dichlorobenzene	360	U	86-30-6	N-Nitrosodiphenylamine (1)	360	U
95-48-7	2-Methylphenol	360	U	101-55-3	4-Bromophenyl-phenylether	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U	118-74-1	Hexachlorobenzene	360	U
106-44-5	4-Methylphenol	360	U	87-86-5	Pentachlorophenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	360	U	85-01-8	Phenanthrene	84	J
67-72-1	Hexachloroethane	360	U	120-12-7	Anthracene	360	U
98-95-3	Nitrobenzene	360	U	84-74-2	Di-n-butylphthalate	360	U
78-59-1	Isophorone	360	U	206-44-0	Fluoranthene	100	J
88-75-5	2-Nitrophenol	360	U	129-00-0	Pyrene	120	J
105-67-9	2,4-Dimethylphenol	360	U	85-68-7	Butylbenzylphthalate	360	U
65-85-0	Benzoic acid	42	J	91-94-1	3,3'-Dichlorobenzidine	720	U
111-91-1	bis(2-Chloroethoxy)methane	360	U	56-55-3	Benzo(a)anthracene	100	J
120-83-2	2,4-Dichlorophenol	360	U	218-01-9	Chrysene	250	J
120-82-1	1,2,4-Trichlorobenzene	360	U	117-81-7	bis(2-Ethylhexyl)phthalate	360	U
91-20-3	Naphthalene	360	U	117-84-0	Di-n-octylphthalate	360	U
106-47-8	4-Chloroaniline	360	U	205-99-2	Benzo(b)fluoranthene	380	
87-68-3	Hexachlorobutadiene	360	U	207-08-9	Benzo(k)fluoranthene	250	J
59-50-7	4-Chloro-3-methylphenol	360	U	50-32-8	Benzo(a)pyrene	300	J
91-57-6	2-Methylnaphthalene	360	U	193-39-5	Indeno(1,2,3-cd)pyrene	190	J
77-47-4	Hexachlorocyclopentadiene	360	U	53-70-3	Dibenz(a,h)anthracene	99	J
88-06-2	2,4,6-Trichlorophenol	360	U	191-24-2	Benzo(g,h,i)perylene	190	J
95-95-4	2,4,5-Trichlorophenol	1800	U				
91-58-7	2-Chloronaphthalene	360	U		Nitrobenzene-d5 - SS	82	
88-74-4	2-Nitroaniline	1800	U		2-Fluorobiphenyl - SS	83	
131-11-3	Dimethylphthalate	360	U		Terphenyl-d14 - SS	86	
208-96-8	Acenaphthylene	360	U		Phenol-d5 - SS	70	
606-20-2	2,6-Dinitrotoluene	360	U		2-Fluorophenol - SS	76	
99-09-2	3-Nitroaniline	1800	U		2,4,6-Tribromophenol - SS	90	
83-32-9	Acenaphthene	360	U				
51-28-5	2,4-Dinitrophenol	1800	U				
100-02-7	4-Nitrophenol	1800	U				
132-64-9	Dibenzofuran	360	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34399004	Sample Matrix:	SOIL	Date Analyzed:	11/23/9
Client Sample ID:	20BSB0402	Percent Moisture:	8.8	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether .	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene . . .	360	U
106-46-7	1,4-Dichlorobenzene . . .	360	U
100-51-6	Benzyl alcohol	360	U
95-50-1	1,2-Dichlorobenzene . . .	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene . .	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene . . .	360	U
59-50-7	4-Chloro-3-methylphenol .	360	U
91-57-6	2-Methylnaphthalene . . .	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol . .	360	U
95-95-4	2,4,5-Trichlorophenol . .	1800	U
91-58-7	2-Chloronaphthalene . . .	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	360	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	360	
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	
85-01-8	Phenanthrene	360	
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate . . .	360	U
206-44-0	Fluoranthene	75	
129-00-0	Pyrene	63	U
85-68-7	Butylbenzylphthalate . . .	360	U
91-94-1	3,3'-Dichlorobenzidine . .	720	U
56-55-3	Benzo(a)anthracene	43	
218-01-9	Chrysene	62	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate . . .	360	
205-99-2	Benzo(b)fluoranthene . . .	45	
207-08-9	Benzo(k)fluoranthene . . .	38	J
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene . .	360	
53-70-3	Dibenz(a,h)anthracene . .	360	U
191-24-2	Benzo(g,h,i)perylene . . .	360	U

	Nitrobenzene-d5 - SS . . .	75	
	2-Fluorobiphenyl - SS . .	81	
	Terphenyl-d14 - SS	82	
	Phenol-d5 - SS	63	
	2-Fluorophenol - SS . . .	71	
	2,4,6-Tribromophenol - SS	87	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.[illegible]09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34399005	Sample Matrix:	SOIL	Date Analyzed:	11/23/92
Client Sample ID:	20BSB0403	Percent Moisture:	6.3	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	350	U	121-14-2	2,4-Dinitrotoluene	350	U
111-44-4	bis(2-Chloroethyl)ether .	350	U	84-66-2	Diethylphthalate	350	U
95-57-8	2-Chlorophenol	350	U	7005-72-3	4-Chlorophenyl-phenylether	350	U
541-73-1	1,3-Dichlorobenzene . . .	350	U	86-73-7	Fluorene	350	U
106-46-7	1,4-Dichlorobenzene . . .	350	U	100-01-6	4-Nitroaniline	1700	U
100-51-6	Benzyl alcohol	350	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
95-50-1	1,2-Dichlorobenzene . . .	350	U	86-30-6	N-Nitrosodiphenylamine (1)	350	U
95-48-7	2-Methylphenol	350	U	101-55-3	4-Bromophenyl-phenylether	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U	118-74-1	Hexachlorobenzene	350	U
106-44-5	4-Methylphenol	350	U	87-86-5	Pentachlorophenol	1700	U
621-64-7	N-Nitroso-di-n-propylamine	350	U	85-01-8	Phenanthrene	350	U
67-72-1	Hexachloroethane	350	U	120-12-7	Anthracene	350	U
98-95-3	Nitrobenzene	350	U	84-74-2	Di-n-butylphthalate . . .	350	U
78-59-1	Isophorone	350	U	206-44-0	Fluoranthene	350	U
88-75-5	2-Nitrophenol	350	U	129-00-0	Pyrene	350	U
105-67-9	2,4-Dimethylphenol	350	U	85-68-7	Butylbenzylphthalate . . .	350	U
65-85-0	Benzoic acid	1700	U	91-94-1	3,3'-Dichlorobenzidine . .	700	U
111-91-1	bis(2-Chloroethoxy)methane	350	U	56-55-3	Benzo(a)anthracene	350	U
120-83-2	2,4-Dichlorophenol	350	U	218-01-9	Chrysene	350	U
120-82-1	1,2,4-Trichlorobenzene . .	350	U	117-81-7	bis(2-Ethylhexyl)phthalate	350	U
91-20-3	Naphthalene	350	U	117-84-0	Di-n-octylphthalate . . .	350	U
106-47-8	4-Chloroaniline	350	U	205-99-2	Benzo(b)fluoranthene . . .	350	U
87-68-3	Hexachlorobutadiene . . .	350	U	207-08-9	Benzo(k)fluoranthene . . .	350	U
59-50-7	4-Chloro-3-methylphenol .	350	U	50-32-8	Benzo(a)pyrene	350	U
91-57-6	2-Methylnaphthalene . . .	350	U	193-39-5	Indeno(1,2,3-cd)pyrene . .	350	U
77-47-4	Hexachlorocyclopentadiene	350	U	53-70-3	Dibenz(a,h)anthracene . .	350	U
88-06-2	2,4,6-Trichlorophenol . .	350	U	191-24-2	Benzo(g,h,i)perylene . . .	350	U
95-95-4	2,4,5-Trichlorophenol . .	1700	U		---		
91-58-7	2-Chloronaphthalene . . .	350	U		Nitrobenzene-d5 - SS . . .	63	
88-74-4	2-Nitroaniline	1700	U		2-Fluorobiphenyl - SS . .	76	
131-11-3	Dimethylphthalate	350	U		Terphenyl-d14 - SS	91	
208-96-8	Acenaphthylene	350	U		Phenol-d5 - SS	62	
606-20-2	2,6-Dinitrotoluene	350	U		2-Fluorophenol - SS . . .	62	
99-09-2	3-Nitroaniline	1700	U		2,4,6-Tribromophenol - SS	86	
83-32-9	Acenaphthene	350	U				
51-28-5	2,4-Dinitrophenol	1700	U				
100-02-7	4-Nitrophenol	1700	U				
132-64-9	Dibenzofuran	350	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34399007
Client Sample ID: 20BSBR03

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 11/16/92
Date Analyzed: 11/21/9
Dilution Factor: 1

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether .	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene . . .	10	U
106-46-7	1,4-Dichlorobenzene . . .	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene . . .	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene . .	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene . . .	10	U
59-50-7	4-Chloro-3-methylphenol .	10	U
91-57-6	2-Methylnaphthalene . . .	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol . .	10	U
95-95-4	2,4,5-Trichlorophenol . .	50	U
91-58-7	2-Chloronaphthalene . . .	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

CAS Number		ug/L	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	
86-30-6	N-Nitrosodiphenylamine (1)	10	
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate . . .	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate . . .	10	U
91-94-1	3,3'-Dichlorobenzidine . .	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate . . .	10	U
205-99-2	Benzo(b)fluoranthene . . .	10	U
207-08-9	Benzo(k)fluoranthene . . .	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene . .	10	U
53-70-3	Dibenz(a,h)anthracene . .	10	U
191-24-2	Benzo(g,h,i)perylene . . .	10	U

	Nitrobenzene-d5 - SS . . .	91	
	2-Fluorobiphenyl - SS . .	92	
	Terphenyl-d14 - SS	100	
	Phenol-d5 - SS	88	
	2-Fluorophenol - SS . . .	86	
	2,4,6-Tribromophenol - SS	86	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: SBLKW1

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 11/16/92
Date Analyzed: 11/20/92
Dilution Factor: 1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

CAS Number		ug/L	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
	Nitrobenzene-d5 - SS	90	
	2-Fluorobiphenyl - SS	92	
	Terphenyl-d14 - SS	100	
	Phenol-d5 - SS	82	
	2-Fluorophenol - SS	82	
	2,4,6-Tribromophenol - SS	83	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: SBLKS1

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture:

Date Extracted: 11/19/92
Date Analyzed: 11/23/9
Dilution Factor: 1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic acid	1600	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	
86-30-6	N-Nitrosodiphenylamine (1)	330	
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	
85-01-8	Phenanthrene	330	
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	
205-99-2	Benzo(b)fluoranthene	330	
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
	Nitrobenzene-d5 - SS	81	
	2-Fluorobiphenyl - SS	87	
	Terphenyl-d14 - SS	96	
	Phenol-d5 - SS	72	
	2-Fluorophenol - SS	71	
	2,4,6-Tribromophenol - SS	90	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.. 09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405001	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0502	Percent Moisture:	10.0	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	5	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	88	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405003	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0602	Percent Moisture:	13.3	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	12	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	12	U	591-78-6	2-Hexanone	12	
75-00-3	Chloroethane	12	U	108-10-1	4-Methyl-2-pentanone . . .	12	
75-09-2	Methylene chloride	6	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	5	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	12	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	89	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	97	
108-05-4	Vinyl acetate	12	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4 09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405004	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0601	Percent Moisture:	13.6	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	12	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	12	U	591-78-6	2-Hexanone	12	U
75-00-3	Chloroethane	12	U	108-10-1	4-Methyl-2-pentanone	12	U
75-09-2	Methylene chloride	6	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	12	U		Toluene-d8 - SS	120	
71-55-6	1,1,1-Trichloroethane	6	U		1,4-Bromofluorobenzene - SS	81	
56-23-5	Carbon tetrachloride	6	U		1,2-Dichloroethane-d4 - SS	97	
108-05-4	Vinyl acetate	12	U				
75-27-4	Bromodichloromethane	6	U				
78-87-5	1,2-Dichloropropane	6	U				
10061-01-5	cis-1,3-Dichloropropene	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane	6	U				
79-00-5	1,1,2-Trichloroethane	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405005	Sample Matrix:	SOIL	Date Analyzed:	11/24/9[illegible]
Client Sample ID:	20BSB1201	Percent Moisture:	10.3	Dilution Factor:	1[illegible]

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	6	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	[illegible]
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	96	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405006	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB1202	Percent Moisture:	16.8	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	12	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	12	U	591-78-6	2-Hexanone	12	U
75-00-3	Chloroethane	12	U	108-10-1	4-Methyl-2-pentanone	12	U
75-09-2	Methylene chloride	6	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	4	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U				
78-93-3	2-Butanone	12	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane	6	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride	6	U		1,2-Dichloroethane-d4 - SS	99	
108-05-4	Vinyl acetate	12	U				
75-27-4	Bromodichloromethane	6	U				
78-87-5	1,2-Dichloropropane	6	U				
10061-01-5	cis-1,3-Dichloropropene	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane	6	U				
79-00-5	1,1,2-Trichloroethane	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405007
Client Sample ID: 20BSB0702

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 17.6

Date Extracted:
Date Analyzed: 11/24/92
Dilution Factor: 1

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene chloride	6	BJ
67-64-1	Acetone	5	J
75-15-0	Carbon disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon tetrachloride	6	U
108-05-4	Vinyl acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
591-78-6	2-Hexanone	12	U
108-10-1	4-Methyl-2-pentanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylenes (total)	6	U

	Toluene-d8 - SS	110	
	1,4-Bromofluorobenzene - SS	90	
	1,2-Dichloroethane-d4 - SS	98	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405008	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB072D	Percent Moisture:	25.4	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	13	U	10061-02-6	trans-1,3-Dichloropropene	7	U
74-83-9	Bromomethane	13	U	75-25-2	Bromoform	7	U
75-01-4	Vinyl chloride	13	U	591-78-6	2-Hexanone	13	U
75-00-3	Chloroethane	13	U	108-10-1	4-Methyl-2-pentanone . . .	13	U
75-09-2	Methylene chloride	7	B	127-18-4	Tetrachloroethene	7	U
67-64-1	Acetone	8	J	79-34-5	1,1,2,2-Tetrachloroethane	7	U
75-15-0	Carbon disulfide	7	U	108-88-3	Toluene	7	U
75-35-4	1,1-Dichloroethene	7	U	108-90-7	Chlorobenzene	7	U
75-34-3	1,1-Dichloroethane	7	U	100-41-4	Ethylbenzene	7	U
540-59-0	1,2-Dichloroethene (total)	7	U	100-42-5	Styrene	7	U
67-66-3	Chloroform	7	U	1330-20-7	Xylenes (total)	7	U
107-06-2	1,2-Dichloroethane	7	U		---		
78-93-3	2-Butanone	13	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	7	U		1,4-Bromofluorobenzene - SS	96	
56-23-5	Carbon tetrachloride . . .	7	U		1,2-Dichloroethane-d4 - SS	99	
108-05-4	Vinyl acetate	13	U				
75-27-4	Bromodichloromethane . . .	7	U				
78-87-5	1,2-Dichloropropane . . .	7	U				
10061-01-5	cis-1,3-Dichloropropene .	7	U				
79-01-6	Trichloroethene	7	U				
124-48-1	Dibromochloromethane . . .	7	U				
79-00-5	1,1,2-Trichloroethane . .	7	U				
71-43-2	Benzene	7	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405009
Client Sample ID: 20BSB0701

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 6.9

Date Extracted:
Date Analyzed: 11/24/92
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	16	B
67-64-1	Acetone	13	
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane . .	5	U
56-23-5	Carbon tetrachloride . . .	5	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane . . .	5	U
78-87-5	1,2-Dichloropropane . . .	5	U
10061-01-5	cis-1,3-Dichloropropene .	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane . . .	5	U
79-00-5	1,1,2-Trichloroethane . .	5	U
71-43-2	Benzene	5	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	11	U
108-10-1	4-Methyl-2-pentanone . . .	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U

	Toluene-d8 - SS	110	
	1,4-Bromofluorobenzene - SS	86	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405010	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0801	Percent Moisture:	17.4	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	12	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	12	U	591-78-6	2-Hexanone	12	U
75-00-3	Chloroethane	12	U	108-10-1	4-Methyl-2-pentanone . . .	12	U
75-09-2	Methylene chloride	14	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	5	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	12	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	95	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	99	
108-05-4	Vinyl acetate	12	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405011
Client Sample ID: 20BSB0803

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 11.0

Date Extracted:
Date Analyzed: 11/24/9?
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	14	B
67-64-1	Acetone	21	
75-15-0	Carbon disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon tetrachloride	6	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
591-78-6	2-Hexanone	11	
108-10-1	4-Methyl-2-pentanone	11	
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	
1330-20-7	Xylenes (total)	6	
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	98	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405012	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0802	Percent Moisture:	11.6	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone	11	U
75-09-2	Methylene chloride	18	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	46		79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	2	J
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	3	J		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane	6	U		1,4-Bromofluorobenzene - SS	87	
56-23-5	Carbon tetrachloride	6	U		1,2-Dichloroethane-d4 - SS	98	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane	6	U				
78-87-5	1,2-Dichloropropane	6	U				
10061-01-5	cis-1,3-Dichloropropene	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane	6	U				
79-00-5	1,1,2-Trichloroethane	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
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B

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405013
Client Sample ID: 19BSB0101

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 12.7

Date Extracted:
Date Analyzed: 11/24/92
Dilution Factor: 1

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	13	B
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon tetrachloride	6	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
591-78-6	2-Hexanone	11	U
108-10-1	4-Methyl-2-pentanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylenes (total)	6	U
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	92	
	1,2-Dichloroethane-d4 - SS	99	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405014	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB0202	Percent Moisture:	8.7	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	11	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		----------		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	95	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	94	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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B.

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405015	Sample Matrix:	SOIL	Date Analyzed:	11/24/9?
Client Sample ID:	19BSB0103	Percent Moisture:	13.9	Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	12	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	12	U	591-78-6	2-Hexanone	12	
75-00-3	Chloroethane	12	U	108-10-1	4-Methyl-2-pentanone . . .	12	
75-09-2	Methylene chloride	13	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	3	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	
107-06-2	1,2-Dichloroethane	6	U		----------		
78-93-3	2-Butanone	12	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	82	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	99	
108-05-4	Vinyl acetate	12	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405016	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB0102	Percent Moisture:	5.2	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone	11	U
75-09-2	Methylene chloride	12	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane	5	U		1,4-Bromofluorobenzene - SS	75	
56-23-5	Carbon tetrachloride	5	U		1,2-Dichloroethane-d4 - SS	94	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane	5	U				
78-87-5	1,2-Dichloropropane	5	U				
10061-01-5	cis-1,3-Dichloropropene	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane	5	U				
79-00-5	1,1,2-Trichloroethane	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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B1

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405017
Client Sample ID: 19BSB0201

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 11.4

Date Extracted:
Date Analyzed: 11/25/92
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	10	B
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon tetrachloride	6	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
591-78-6	2-Hexanone	11	
108-10-1	4-Methyl-2-pentanone	11	
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	
108-90-7	Chlorobenzene	6	
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylenes (total)	6	
	Toluene-d8 - SS	110	
	1,4-Bromofluorobenzene - SS	90	
	1,2-Dichloroethane-d4 - SS	89	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405018	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	19BSB0203	Percent Moisture:	8.9	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	14	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	8	J	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	90	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	96	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405019
Client Sample ID: 20BSBR04

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/23/92
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	18	B
67-64-1	Acetone	4	J
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	
108-10-1	4-Methyl-2-pentanone	10	
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	98	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000047

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34405K20	Sample Matrix:	WATER	Date Analyzed:	11/23/92
Client Sample ID:	20BSBT04	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	21	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	7	J	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	98	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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B

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: VBLKW1

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/23/
Dilution Factor: 1

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	15	B
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	J
591-78-6	2-Hexanone	10	
108-10-1	4-Methyl-2-pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	
1330-20-7	Xylenes (total)	5	
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	99	
	1,2-Dichloroethane-d4 - SS	100	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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916.244.5227
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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	VBLKS1	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	4	BJ	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	100	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	SOIL	Date Analyzed:	11/25/9^
Client Sample ID:	VBLKS2	Percent Moisture:		Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	
75-09-2	Methylene chloride	10	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	100	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	94	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	96	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4'09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405003	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0602	Percent Moisture:	13.3	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	380	U	121-14-2	2,4-Dinitrotoluene	380	U
111-44-4	bis(2-Chloroethyl)ether .	380	U	84-66-2	Diethylphthalate	380	U
95-57-8	2-Chlorophenol	380	U	7005-72-3	4-Chlorophenyl-phenylether	380	U
541-73-1	1,3-Dichlorobenzene . . .	380	U	86-73-7	Fluorene	380	U
106-46-7	1,4-Dichlorobenzene . . .	380	U	100-01-6	4-Nitroaniline	1800	U
100-51-6	Benzyl alcohol	380	U	534-52-1	4,6-Dinitro-2-methylphenol	1800	U
95-50-1	1,2-Dichlorobenzene . . .	380	U	86-30-6	N-Nitrosodiphenylamine (1)	380	U
95-48-7	2-Methylphenol	380	U	101-55-3	4-Bromophenyl-phenylether	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U	118-74-1	Hexachlorobenzene	380	U
106-44-5	4-Methylphenol	380	U	87-86-5	Pentachlorophenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	380	U	85-01-8	Phenanthrene	380	U
67-72-1	Hexachloroethane	380	U	120-12-7	Anthracene	380	U
98-95-3	Nitrobenzene	380	U	84-74-2	Di-n-butylphthalate . . .	380	U
78-59-1	Isophorone	380	U	206-44-0	Fluoranthene	84	J
88-75-5	2-Nitrophenol	380	U	129-00-0	Pyrene	93	J
105-67-9	2,4-Dimethylphenol	380	U	85-68-7	Butylbenzylphthalate . . .	380	U
65-85-0	Benzoic acid	1800	U	91-94-1	3,3'-Dichlorobenzidine . .	760	U
111-91-1	bis(2-Chloroethoxy)methane	380	U	56-55-3	Benzo(a)anthracene	49	J
120-83-2	2,4-Dichlorophenol	380	U	218-01-9	Chrysene	56	J
120-82-1	1,2,4-Trichlorobenzene . .	380	U	117-81-7	bis(2-Ethylhexyl)phthalate	380	U
91-20-3	Naphthalene	380	U	117-84-0	Di-n-octylphthalate . . .	380	U
106-47-8	4-Chloroaniline	380	U	205-99-2	Benzo(b)fluoranthene . . .	48	J
87-68-3	Hexachlorobutadiene . . .	380	U	207-08-9	Benzo(k)fluoranthene . . .	39	J
59-50-7	4-Chloro-3-methylphenol .	380	U	50-32-8	Benzo(a)pyrene	380	U
91-57-6	2-Methylnaphthalene . . .	380	U	193-39-5	Indeno(1,2,3-cd)pyrene . .	380	U
77-47-4	Hexachlorocyclopentadiene	380	U	53-70-3	Dibenz(a,h)anthracene . .	380	U
88-06-2	2,4,6-Trichlorophenol . .	380	U	191-24-2	Benzo(g,h,i)perylene . . .	380	U
95-95-4	2,4,5-Trichlorophenol . .	1800	U		---		
91-58-7	2-Chloronaphthalene . . .	380	U		Nitrobenzene-d5 - SS . . .	80	
88-74-4	2-Nitroaniline	1800	U		2-Fluorobiphenyl - SS . .	76	
131-11-3	Dimethylphthalate	380	U		Terphenyl-d14 - SS	84	
208-96-8	Acenaphthylene	380	U		Phenol-d5 - SS	66	
606-20-2	2,6-Dinitrotoluene	380	U		2-Fluorophenol - SS . . .	69	
99-09-2	3-Nitroaniline	1800	U		2,4,6-Tribromophenol - SS	82	
83-32-9	Acenaphthene	380	U				
51-28-5	2,4-Dinitrophenol	1800	U				
100-02-7	4-Nitrophenol	1800	U				
132-64-9	Dibenzofuran	380	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405004	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0601	Percent Moisture:	13.6	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	380	U	121-14-2	2,4-Dinitrotoluene	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U	84-66-2	Diethylphthalate	380	U
95-57-8	2-Chlorophenol	380	U	7005-72-3	4-Chlorophenyl-phenylether	380	U
541-73-1	1,3-Dichlorobenzene	380	U	86-73-7	Fluorene	380	U
106-46-7	1,4-Dichlorobenzene	380	U	100-01-6	4-Nitroaniline	1900	U
100-51-6	Benzyl alcohol	380	U	534-52-1	4,6-Dinitro-2-methylphenol	1900	U
95-50-1	1,2-Dichlorobenzene	380	U	86-30-6	N-Nitrosodiphenylamine (1)	380	U
95-48-7	2-Methylphenol	380	U	101-55-3	4-Bromophenyl-phenylether	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U	118-74-1	Hexachlorobenzene	380	U
106-44-5	4-Methylphenol	380	U	87-86-5	Pentachlorophenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	380	U	85-01-8	Phenanthrene	380	U
67-72-1	Hexachloroethane	380	U	120-12-7	Anthracene	380	U
98-95-3	Nitrobenzene	380	U	84-74-2	Di-n-butylphthalate	380	U
78-59-1	Isophorone	380	U	206-44-0	Fluoranthene	49	J
88-75-5	2-Nitrophenol	380	U	129-00-0	Pyrene	45	J
105-67-9	2,4-Dimethylphenol	380	U	85-68-7	Butylbenzylphthalate	380	U
65-85-0	Benzoic acid	1900	U	91-94-1	3,3'-Dichlorobenzidine	760	U
111-91-1	bis(2-Chloroethoxy)methane	380	U	56-55-3	Benzo(a)anthracene	380	
120-83-2	2,4-Dichlorophenol	380	U	218-01-9	Chrysene	45	J
120-82-1	1,2,4-Trichlorobenzene	380	U	117-81-7	bis(2-Ethylhexyl)phthalate	380	U
91-20-3	Naphthalene	380	U	117-84-0	Di-n-octylphthalate	380	U
106-47-8	4-Chloroaniline	380	U	205-99-2	Benzo(b)fluoranthene	380	
87-68-3	Hexachlorobutadiene	380	U	207-08-9	Benzo(k)fluoranthene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U	50-32-8	Benzo(a)pyrene	40	J
91-57-6	2-Methylnaphthalene	380	U	193-39-5	Indeno(1,2,3-cd)pyrene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U	53-70-3	Dibenz(a,h)anthracene	380	
88-06-2	2,4,6-Trichlorophenol	380	U	191-24-2	Benzo(g,h,i)perylene	380	U
95-95-4	2,4,5-Trichlorophenol	1900	U				
91-58-7	2-Chloronaphthalene	380	U		Nitrobenzene-d5 - SS	69	
88-74-4	2-Nitroaniline	1900	U		2-Fluorobiphenyl - SS	72	
131-11-3	Dimethylphthalate	380	U		Terphenyl-d14 - SS	80	
208-96-8	Acenaphthylene	380	U		Phenol-d5 - SS	63	
606-20-2	2,6-Dinitrotoluene	380	U		2-Fluorophenol - SS	64	
99-09-2	3-Nitroaniline	1900	U		2,4,6-Tribromophenol - SS	81	
83-32-9	Acenaphthene	380	U				
51-28-5	2,4-Dinitrophenol	1900	U				
100-02-7	4-Nitrophenol	1900	U				
132-64-9	Dibenzofuran	380	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405010	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0801	Percent Moisture:	17.4	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	400	U	121-14-2	2,4-Dinitrotoluene	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U	84-66-2	Diethylphthalate	400	U
95-57-8	2-Chlorophenol	400	U	7005-72-3	4-Chlorophenyl-phenylether	400	U
541-73-1	1,3-Dichlorobenzene	400	U	86-73-7	Fluorene	400	U
106-46-7	1,4-Dichlorobenzene	400	U	100-01-6	4-Nitroaniline	1900	U
100-51-6	Benzyl alcohol	400	U	534-52-1	4,6-Dinitro-2-methylphenol	1900	U
95-50-1	1,2-Dichlorobenzene	400	U	86-30-6	N-Nitrosodiphenylamine (1)	400	U
95-48-7	2-Methylphenol	400	U	101-55-3	4-Bromophenyl-phenylether	400	U
108-60-1	bis(2-Chloroisopropyl)ether	400	U	118-74-1	Hexachlorobenzene	400	U
106-44-5	4-Methylphenol	400	U	87-86-5	Pentachlorophenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	400	U	85-01-8	Phenanthrene	400	U
67-72-1	Hexachloroethane	400	U	120-12-7	Anthracene	400	U
98-95-3	Nitrobenzene	400	U	84-74-2	Di-n-butylphthalate	400	U
78-59-1	Isophorone	400	U	206-44-0	Fluoranthene	400	U
88-75-5	2-Nitrophenol	400	U	129-00-0	Pyrene	400	U
105-67-9	2,4-Dimethylphenol	400	U	85-68-7	Butylbenzylphthalate	400	U
65-85-0	Benzoic acid	1900	U	91-94-1	3,3'-Dichlorobenzidine	800	U
111-91-1	bis(2-Chloroethoxy)methane	400	U	56-55-3	Benzo(a)anthracene	400	U
120-83-2	2,4-Dichlorophenol	400	U	218-01-9	Chrysene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	117-81-7	bis(2-Ethylhexyl)phthalate	400	U
91-20-3	Naphthalene	400	U	117-84-0	Di-n-octylphthalate	400	U
106-47-8	4-Chloroaniline	400	U	205-99-2	Benzo(b)fluoranthene	400	U
87-68-3	Hexachlorobutadiene	400	U	207-08-9	Benzo(k)fluoranthene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U	50-32-8	Benzo(a)pyrene	400	U
91-57-6	2-Methylnaphthalene	400	U	193-39-5	Indeno(1,2,3-cd)pyrene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	53-70-3	Dibenz(a,h)anthracene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	191-24-2	Benzo(g,h,i)perylene	400	U
95-95-4	2,4,5-Trichlorophenol	1900	U				
91-58-7	2-Chloronaphthalene	400	U		Nitrobenzene-d5 - SS	73	
88-74-4	2-Nitroaniline	1900	U		2-Fluorobiphenyl - SS	79	
131-11-3	Dimethylphthalate	400	U		Terphenyl-d14 - SS	81	
208-96-8	Acenaphthylene	400	U		Phenol-d5 - SS	65	
606-20-2	2,6-Dinitrotoluene	400	U		2-Fluorophenol - SS	63	
99-09-2	3-Nitroaniline	1900	U		2,4,6-Tribromophenol - SS	82	
83-32-9	Acenaphthene	400	U				
51-28-5	2,4-Dinitrophenol	1900	U				
100-02-7	4-Nitrophenol	1900	U				
132-64-9	Dibenzofuran	400	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

BL

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405011	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0803	Percent Moisture:	11.0	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	370	U	121-14-2	2,4-Dinitrotoluene	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U	84-66-2	Diethylphthalate	370	U
95-57-8	2-Chlorophenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
541-73-1	1,3-Dichlorobenzene	370	U	86-73-7	Fluorene	370	U
106-46-7	1,4-Dichlorobenzene	370	U	100-01-6	4-Nitroaniline	1800	U
100-51-6	Benzyl alcohol	370	U	534-52-1	4,6-Dinitro-2-methylphenol	1800	U
95-50-1	1,2-Dichlorobenzene	370	U	86-30-6	N-Nitrosodiphenylamine (1)	370	U
95-48-7	2-Methylphenol	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
108-60-1	bis(2-Chloroisopropyl)ether	370	U	118-74-1	Hexachlorobenzene	370	U
106-44-5	4-Methylphenol	370	U	87-86-5	Pentachlorophenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	370	U	85-01-8	Phenanthrene	370	U
67-72-1	Hexachloroethane	370	U	120-12-7	Anthracene	370	U
98-95-3	Nitrobenzene	370	U	84-74-2	Di-n-butylphthalate	370	U
78-59-1	Isophorone	370	U	206-44-0	Fluoranthene	370	U
88-75-5	2-Nitrophenol	370	U	129-00-0	Pyrene	370	U
105-67-9	2,4-Dimethylphenol	370	U	85-68-7	Butylbenzylphthalate	370	U
65-85-0	Benzoic acid	1800	U	91-94-1	3,3'-Dichlorobenzidine	740	U
111-91-1	bis(2-Chloroethoxy)methane	370	U	56-55-3	Benzo(a)anthracene	370	U
120-83-2	2,4-Dichlorophenol	370	U	218-01-9	Chrysene	130	J
120-82-1	1,2,4-Trichlorobenzene	370	U	117-81-7	bis(2-Ethylhexyl)phthalate	45	J
91-20-3	Naphthalene	370	U	117-84-0	Di-n-octylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	205-99-2	Benzo(b)fluoranthene	370	U
87-68-3	Hexachlorobutadiene	370	U	207-08-9	Benzo(k)fluoranthene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U	50-32-8	Benzo(a)pyrene	370	U
91-57-6	2-Methylnaphthalene	370	U	193-39-5	Indeno(1,2,3-cd)pyrene	48	
77-47-4	Hexachlorocyclopentadiene	370	U	53-70-3	Dibenz(a,h)anthracene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	191-24-2	Benzo(g,h,i)perylene	330	J
95-95-4	2,4,5-Trichlorophenol	1800	U				
91-58-7	2-Chloronaphthalene	370	U		Nitrobenzene-d5 - SS	78	
88-74-4	2-Nitroaniline	1800	U		2-Fluorobiphenyl - SS	83	
131-11-3	Dimethylphthalate	370	U		Terphenyl-d14 - SS	80	
208-96-8	Acenaphthylene	370	U		Phenol-d5 - SS	64	
606-20-2	2,6-Dinitrotoluene	370	U		2-Fluorophenol - SS	69	
99-09-2	3-Nitroaniline	1800	U		2,4,6-Tribromophenol - SS	84	
83-32-9	Acenaphthene	370	U				
51-28-5	2,4-Dinitrophenol	1800	U				
100-02-7	4-Nitrophenol	1800	U				
132-64-9	Dibenzofuran	370	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4 9

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405012	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	20BSB0802	Percent Moisture:	11.6	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	370	U	121-14-2	2,4-Dinitrotoluene	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U	84-66-2	Diethylphthalate	370	U
95-57-8	2-Chlorophenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
541-73-1	1,3-Dichlorobenzene	370	U	86-73-7	Fluorene	370	U
106-46-7	1,4-Dichlorobenzene	370	U	100-01-6	4-Nitroaniline	1800	U
100-51-6	Benzyl alcohol	370	U	534-52-1	4,6-Dinitro-2-methylphenol	1800	U
95-50-1	1,2-Dichlorobenzene	370	U	86-30-6	N-Nitrosodiphenylamine (1)	370	U
95-48-7	2-Methylphenol	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
108-60-1	bis(2-Chloroisopropyl)ether	370	U	118-74-1	Hexachlorobenzene	370	U
106-44-5	4-Methylphenol	370	U	87-86-5	Pentachlorophenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	370	U	85-01-8	Phenanthrene	370	U
67-72-1	Hexachloroethane	370	U	120-12-7	Anthracene	370	U
98-95-3	Nitrobenzene	370	U	84-74-2	Di-n-butylphthalate	370	U
78-59-1	Isophorone	370	U	206-44-0	Fluoranthene	63	J
88-75-5	2-Nitrophenol	370	U	129-00-0	Pyrene	57	J
105-67-9	2,4-Dimethylphenol	370	U	85-68-7	Butylbenzylphthalate	370	U
65-85-0	Benzoic acid	50	J	91-94-1	3,3'-Dichlorobenzidine	750	U
111-91-1	bis(2-Chloroethoxy)methane	370	U	56-55-3	Benzo(a)anthracene	43	J
120-83-2	2,4-Dichlorophenol	370	U	218-01-9	Chrysene	69	J
120-82-1	1,2,4-Trichlorobenzene	370	U	117-81-7	bis(2-Ethylhexyl)phthalate	75	BJ
91-20-3	Naphthalene	370	U	117-84-0	Di-n-octylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	205-99-2	Benzo(b)fluoranthene	46	J
87-68-3	Hexachlorobutadiene	370	U	207-08-9	Benzo(k)fluoranthene	50	J
59-50-7	4-Chloro-3-methylphenol	370	U	50-32-8	Benzo(a)pyrene	45	J
91-57-6	2-Methylnaphthalene	370	U	193-39-5	Indeno(1,2,3-cd)pyrene	110	J
77-47-4	Hexachlorocyclopentadiene	370	U	53-70-3	Dibenz(a,h)anthracene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	191-24-2	Benzo(g,h,i)perylene	240	J
95-95-4	2,4,5-Trichlorophenol	1800	U				
91-58-7	2-Chloronaphthalene	370	U		Nitrobenzene-d5 - SS	74	
88-74-4	2-Nitroaniline	1800	U		2-Fluorobiphenyl - SS	79	
131-11-3	Dimethylphthalate	370	U		Terphenyl-d14 - SS	85	
208-96-8	Acenaphthylene	370	U		Phenol-d5 - SS	68	
606-20-2	2,6-Dinitrotoluene	370	U		2-Fluorophenol - SS	69	
99-09-2	3-Nitroaniline	1800	U		2,4,6-Tribromophenol - SS	84	
83-32-9	Acenaphthene	370	U				
51-28-5	2,4-Dinitrophenol	1800	U				
100-02-7	4-Nitrophenol	1800	U				
132-64-9	Dibenzofuran	370	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405013
Client Sample ID: 19BSB0101

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 12.7

Date Extracted: 11/19/92
Date Analyzed: 11/24/92
Dilution Factor: 1

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic acid	42	J
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	380	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	760	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	74	BJ
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U
	Nitrobenzene-d5 - SS	68	
	2-Fluorobiphenyl - SS	75	
	Terphenyl-d14 - SS	79	
	Phenol-d5 - SS	59	
	2-Fluorophenol - SS	60	
	2,4,6-Tribromophenol - SS	72	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.[illegible]109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405014	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	19BSB0202	Percent Moisture:	8.7	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	360	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	110	BJ
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U
	Nitrobenzene-d5 - SS	75	
	2-Fluorobiphenyl - SS	79	
	Terphenyl-d14 - SS	81	
	Phenol-d5 - SS	64	
	2-Fluorophenol - SS	66	
	2,4,6-Tribromophenol - SS	79	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405015	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	19BSB0103	Percent Moisture:	13.9	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic acid	1900	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	380	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	
86-73-7	Fluorene	380	
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	380	
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	380	
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	43	
129-00-0	Pyrene	120	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U
	Nitrobenzene-d5 - SS	78	
	2-Fluorobiphenyl - SS	47	
	Terphenyl-d14 - SS	78	
	Phenol-d5 - SS	68	
	2-Fluorophenol - SS	69	
	2,4,6-Tribromophenol - SS	53	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.[illegible]09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405016	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	19BSB0102	Percent Moisture:	5.2	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	350	U	121-14-2	2,4-Dinitrotoluene	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U	84-66-2	Diethylphthalate	350	U
95-57-8	2-Chlorophenol	350	U	7005-72-3	4-Chlorophenyl-phenylether	350	U
541-73-1	1,3-Dichlorobenzene	350	U	86-73-7	Fluorene	350	U
106-46-7	1,4-Dichlorobenzene	350	U	100-01-6	4-Nitroaniline	1700	U
100-51-6	Benzyl alcohol	350	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
95-50-1	1,2-Dichlorobenzene	350	U	86-30-6	N-Nitrosodiphenylamine (1)	350	U
95-48-7	2-Methylphenol	350	U	101-55-3	4-Bromophenyl-phenylether	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U	118-74-1	Hexachlorobenzene	350	U
106-44-5	4-Methylphenol	350	U	87-86-5	Pentachlorophenol	1700	U
621-64-7	N-Nitroso-di-n-propylamine	350	U	85-01-8	Phenanthrene	350	U
67-72-1	Hexachloroethane	350	U	120-12-7	Anthracene	350	U
98-95-3	Nitrobenzene	350	U	84-74-2	Di-n-butylphthalate	350	U
78-59-1	Isophorone	350	U	206-44-0	Fluoranthene	350	U
88-75-5	2-Nitrophenol	350	U	129-00-0	Pyrene	350	U
105-67-9	2,4-Dimethylphenol	350	U	85-68-7	Butylbenzylphthalate	350	U
65-85-0	Benzoic acid	1700	U	91-94-1	3,3'-Dichlorobenzidine	700	U
111-91-1	bis(2-Chloroethoxy)methane	350	U	56-55-3	Benzo(a)anthracene	350	U
120-83-2	2,4-Dichlorophenol	350	U	218-01-9	Chrysene	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U	117-81-7	bis(2-Ethylhexyl)phthalate	110	BJ
91-20-3	Naphthalene	350	U	117-84-0	Di-n-octylphthalate	350	U
106-47-8	4-Chloroaniline	350	U	205-99-2	Benzo(b)fluoranthene	350	U
87-68-3	Hexachlorobutadiene	350	U	207-08-9	Benzo(k)fluoranthene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U	50-32-8	Benzo(a)pyrene	350	U
91-57-6	2-Methylnaphthalene	350	U	193-39-5	Indeno(1,2,3-cd)pyrene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U	53-70-3	Dibenz(a,h)anthracene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U	191-24-2	Benzo(g,h,i)perylene	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U				
91-58-7	2-Chloronaphthalene	350	U		Nitrobenzene-d5 - SS	76	
88-74-4	2-Nitroaniline	1700	U		2-Fluorobiphenyl - SS	74	
131-11-3	Dimethylphthalate	350	U		Terphenyl-d14 - SS	78	
208-96-8	Acenaphthylene	350	U		Phenol-d5 - SS	68	
606-20-2	2,6-Dinitrotoluene	350	U		2-Fluorophenol - SS	72	
99-09-2	3-Nitroaniline	1700	U		2,4,6-Tribromophenol - SS	82	
83-32-9	Acenaphthene	350	U				
51-28-5	2,4-Dinitrophenol	1700	U				
100-02-7	4-Nitrophenol	1700	U				
132-64-9	Dibenzofuran	350	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405017	Sample Matrix:	SOIL	Date Analyzed:	11/24/9?
Client Sample ID:	19BSB0201	Percent Moisture:	11.4	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether .	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene . . .	370	U
106-46-7	1,4-Dichlorobenzene . . .	370	U
100-51-6	Benzyl alcohol	370	U
95-50-1	1,2-Dichlorobenzene . . .	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	bis(2-Chloroisopropyl)ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene . .	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene . . .	370	U
59-50-7	4-Chloro-3-methylphenol .	370	U
91-57-6	2-Methylnaphthalene . . .	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol . .	370	U
95-95-4	2,4,5-Trichlorophenol . .	1800	U
91-58-7	2-Chloronaphthalene . . .	370	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	370	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	
86-73-7	Fluorene	370	
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	"
86-30-6	N-Nitrosodiphenylamine (1)	370	
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1800	
85-01-8	Phenanthrene	370	
120-12-7	Anthracene	370	U
84-74-2	Di-n-butylphthalate . . .	370	U
206-44-0	Fluoranthene	370	
129-00-0	Pyrene	370	
85-68-7	Butylbenzylphthalate . . .	370	U
91-94-1	3,3'-Dichlorobenzidine . .	740	"
56-55-3	Benzo(a)anthracene	370	
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate . . .	370	"
205-99-2	Benzo(b)fluoranthene . . .	370	
207-08-9	Benzo(k)fluoranthene . . .	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene . .	370	
53-70-3	Dibenz(a,h)anthracene . .	370	
191-24-2	Benzo(g,h,i)perylene . . .	370	U

	Nitrobenzene-d5 - SS . . .	79	
	2-Fluorobiphenyl - SS . .	80	
	Terphenyl-d14 - SS	85	
	Phenol-d5 - SS	69	
	2-Fluorophenol - SS . . .	75	
	2,4,6-Tribromophenol - SS	80	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000071

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34405018	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	19BSB0203	Percent Moisture:	8.9	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	360	U	121-14-2	2,4-Dinitrotoluene	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U	84-66-2	Diethylphthalate	360	U
95-57-8	2-Chlorophenol	360	U	7005-72-3	4-Chlorophenyl-phenylether	360	U
541-73-1	1,3-Dichlorobenzene	360	U	86-73-7	Fluorene	360	U
106-46-7	1,4-Dichlorobenzene	360	U	100-01-6	4-Nitroaniline	1800	U
100-51-6	Benzyl alcohol	360	U	534-52-1	4,6-Dinitro-2-methylphenol	1800	U
95-50-1	1,2-Dichlorobenzene	360	U	86-30-6	N-Nitrosodiphenylamine (1)	360	U
95-48-7	2-Methylphenol	360	U	101-55-3	4-Bromophenyl-phenylether	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U	118-74-1	Hexachlorobenzene	360	U
106-44-5	4-Methylphenol	360	U	87-86-5	Pentachlorophenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	360	U	85-01-8	Phenanthrene	360	U
67-72-1	Hexachloroethane	360	U	120-12-7	Anthracene	360	U
98-95-3	Nitrobenzene	360	U	84-74-2	Di-n-butylphthalate	360	U
78-59-1	Isophorone	360	U	206-44-0	Fluoranthene	360	U
88-75-5	2-Nitrophenol	360	U	129-00-0	Pyrene	360	U
105-67-9	2,4-Dimethylphenol	360	U	85-68-7	Butylbenzylphthalate	360	U
65-85-0	Benzoic acid	1800	U	91-94-1	3,3'-Dichlorobenzidine	720	U
111-91-1	bis(2-Chloroethoxy)methane	360	U	56-55-3	Benzo(a)anthracene	360	U
120-83-2	2,4-Dichlorophenol	360	U	218-01-9	Chrysene	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U	117-81-7	bis(2-Ethylhexyl)phthalate	200	BJ
91-20-3	Naphthalene	360	U	117-84-0	Di-n-octylphthalate	360	U
106-47-8	4-Chloroaniline	360	U	205-99-2	Benzo(b)fluoranthene	360	U
87-68-3	Hexachlorobutadiene	360	U	207-08-9	Benzo(k)fluoranthene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U	50-32-8	Benzo(a)pyrene	360	U
91-57-6	2-Methylnaphthalene	360	U	193-39-5	Indeno(1,2,3-cd)pyrene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U	53-70-3	Dibenz(a,h)anthracene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U	191-24-2	Benzo(g,h,i)perylene	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U				
91-58-7	2-Chloronaphthalene	360	U		Nitrobenzene-d5 - SS	77	
88-74-4	2-Nitroaniline	1800	U		2-Fluorobiphenyl - SS	81	
131-11-3	Dimethylphthalate	360	U		Terphenyl-d14 - SS	83	
208-96-8	Acenaphthylene	360	U		Phenol-d5 - SS	70	
606-20-2	2,6-Dinitrotoluene	360	U		2-Fluorophenol - SS	75	
99-09-2	3-Nitroaniline	1800	U		2,4,6-Tribromophenol - SS	77	
83-32-9	Acenaphthene	360	U				
51-28-5	2,4-Dinitrophenol	1800	U				
100-02-7	4-Nitrophenol	1800	U				
132-64-9	Dibenzofuran	360	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34405019
Client Sample ID: 20BSBR04

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 11/16/92
Date Analyzed: 11/21/92
Dilution Factor: 1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

CAS Number		ug/L	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
	Nitrobenzene-d5 - SS	93	
	2-Fluorobiphenyl - SS	95	
	Terphenyl-d14 - SS	110	
	Phenol-d5 - SS	84	
	2-Fluorophenol - SS	82	
	2,4,6-Tribromophenol - SS	88	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/16/92
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	WATER	Date Analyzed:	11/20/92
Client Sample ID:	SBLKW1	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U	84-66-2	Diethylphthalate	10	U
95-57-8	2-Chlorophenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
541-73-1	1,3-Dichlorobenzene	10	U	86-73-7	Fluorene	10	U
106-46-7	1,4-Dichlorobenzene	10	U	100-01-6	4-Nitroaniline	50	U
100-51-6	Benzyl alcohol	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
95-50-1	1,2-Dichlorobenzene	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
95-48-7	2-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U	118-74-1	Hexachlorobenzene	10	U
106-44-5	4-Methylphenol	10	U	87-86-5	Pentachlorophenol	50	U
621-64-7	N-Nitroso-di-n-propylamine	10	U	85-01-8	Phenanthrene	10	U
67-72-1	Hexachloroethane	10	U	120-12-7	Anthracene	10	U
98-95-3	Nitrobenzene	10	U	84-74-2	Di-n-butylphthalate	10	U
78-59-1	Isophorone	10	U	206-44-0	Fluoranthene	10	U
88-75-5	2-Nitrophenol	10	U	129-00-0	Pyrene	10	U
105-67-9	2,4-Dimethylphenol	10	U	85-68-7	Butylbenzylphthalate	10	U
65-85-0	Benzoic acid	50	U	91-94-1	3,3'-Dichlorobenzidine	20	U
111-91-1	bis(2-Chloroethoxy)methane	10	U	56-55-3	Benzo(a)anthracene	10	U
120-83-2	2,4-Dichlorophenol	10	U	218-01-9	Chrysene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	10	U
91-20-3	Naphthalene	10	U	117-84-0	Di-n-octylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	205-99-2	Benzo(b)fluoranthene	10	U
87-68-3	Hexachlorobutadiene	10	U	207-08-9	Benzo(k)fluoranthene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U	50-32-8	Benzo(a)pyrene	10	U
91-57-6	2-Methylnaphthalene	10	U	193-39-5	Indeno(1,2,3-cd)pyrene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	53-70-3	Dibenz(a,h)anthracene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	191-24-2	Benzo(g,h,i)perylene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U				
91-58-7	2-Chloronaphthalene	10	U		Nitrobenzene-d5 - SS	90	
88-74-4	2-Nitroaniline	50	U		2-Fluorobiphenyl - SS	92	
131-11-3	Dimethylphthalate	10	U		Terphenyl-d14 - SS	100	
208-96-8	Acenaphthylene	10	U		Phenol-d5 - SS	82	
606-20-2	2,6-Dinitrotoluene	10	U		2-Fluorophenol - SS	82	
99-09-2	3-Nitroaniline	50	U		2,4,6-Tribromophenol - SS	83	
83-32-9	Acenaphthene	10	U				
51-28-5	2,4-Dinitrophenol	50	U				
100-02-7	4-Nitrophenol	50	U				
132-64-9	Dibenzofuran	10	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: SBLKS1

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture:

Date Extracted: 11/19/92
Date Analyzed: 11/23/92
Dilution Factor: 1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic acid	1600	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
	Nitrobenzene-d5 - SS	81	
	2-Fluorobiphenyl - SS	87	
	Terphenyl-d14 - SS	96	
	Phenol-d5 - SS	72	
	2-Fluorophenol - SS	71	
	2,4,6-Tribromophenol - SS	90	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4[illegible]9

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	SOIL	Date Analyzed:	11/24/92
Client Sample ID:	SBLKS2	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether .	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene . . .	330	U
106-46-7	1,4-Dichlorobenzene . . .	330	U
100-51-6	Benzyl alcohol	330	U
95-50-1	1,2-Dichlorobenzene . . .	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic acid	1600	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene . .	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene . . .	330	U
59-50-7	4-Chloro-3-methylphenol .	330	U
91-57-6	2-Methylnaphthalene . . .	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol . .	330	U
95-95-4	2,4,5-Trichlorophenol . .	1600	U
91-58-7	2-Chloronaphthalene . . .	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate . . .	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate . . .	330	U
91-94-1	3,3'-Dichlorobenzidine . .	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	35	BJ
117-84-0	Di-n-octylphthalate . . .	330	U
205-99-2	Benzo(b)fluoranthene . . .	330	U
207-08-9	Benzo(k)fluoranthene . . .	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene . .	330	U
53-70-3	Dibenz(a,h)anthracene . .	330	U
191-24-2	Benzo(g,h,i)perylene . . .	330	U

	Nitrobenzene-d5 - SS . . .	88	
	2-Fluorobiphenyl - SS . .	85	
	Terphenyl-d14 - SS	96	
	Phenol-d5 - SS	67	
	2-Fluorophenol - SS . . .	72	
	2,4,6-Tribromophenol - SS	91	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416001
Client Sample ID: 19BSB0402

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 8.8

Date Extracted:
Date Analyzed: 11/25/9?
Dilution Factor: 1.(

VOLATILE COMPOUNDS

CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	11	B
67-64-1	Acetone	10	J
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane . .	5	U
56-23-5	Carbon tetrachloride . . .	5	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane . . .	5	U
78-87-5	1,2-Dichloropropane . . .	5	U
10061-01-5	cis-1,3-Dichloropropene .	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane . . .	5	U
79-00-5	1,1,2-Trichloroethane . .	5	U
71-43-2	Benzene	5	U

CAS Number		ug/Kg	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	11	U
108-10-1	4-Methyl-2-pentanone . . .	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U

	Toluene-d8 - SS	110	
	1,4-Bromofluorobenzene - SS	100	
	1,2-Dichloroethane-d4 - SS	92	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

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CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4[illegible]

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416002	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB0403	Percent Moisture:	15.7	Dilution Factor:	5.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	59	U	10061-02-6	trans-1,3-Dichloropropene	30	U
74-83-9	Bromomethane	59	U	75-25-2	Bromoform	30	U
75-01-4	Vinyl chloride	59	U	591-78-6	2-Hexanone	59	U
75-00-3	Chloroethane	59	U	108-10-1	4-Methyl-2-pentanone	59	U
75-09-2	Methylene chloride	74	B	127-18-4	Tetrachloroethene	30	U
67-64-1	Acetone	160		79-34-5	1,1,2,2-Tetrachloroethane	30	U
75-15-0	Carbon disulfide	30	U	108-88-3	Toluene	30	U
75-35-4	1,1-Dichloroethene	30	U	108-90-7	Chlorobenzene	30	U
75-34-3	1,1-Dichloroethane	30	U	100-41-4	Ethylbenzene	30	U
540-59-0	1,2-Dichloroethene (total)	30	U	100-42-5	Styrene	30	U
67-66-3	Chloroform	30	U	1330-20-7	Xylenes (total)	30	U
107-06-2	1,2-Dichloroethane	30	U		---		
78-93-3	2-Butanone	59	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane	30	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride	30	U		1,2-Dichloroethane-d4 - SS	90	
108-05-4	Vinyl acetate	59	U				
75-27-4	Bromodichloromethane	30	U				
78-87-5	1,2-Dichloropropane	30	U				
10061-01-5	cis-1,3-Dichloropropene	30	U				
79-01-6	Trichloroethene	30	U				
124-48-1	Dibromochloromethane	30	U				
79-00-5	1,1,2-Trichloroethane	30	U				
71-43-2	Benzene	30	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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BC

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416003	Sample Matrix:	SOIL	Date Analyzed:	11/25/9?
Client Sample ID:	19BSB0401	Percent Moisture:	13.8	Dilution Factor:	1.(

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	12	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	12	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	12	U	591-78-6	2-Hexanone	12	(
75-00-3	Chloroethane	12	U	108-10-1	4-Methyl-2-pentanone . . .	12	(
75-09-2	Methylene chloride	4	BJ	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	11	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	(
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	(
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	12	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	97	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	90	
108-05-4	Vinyl acetate	12	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416004	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB032D	Percent Moisture:	8.0	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone	11	U
75-09-2	Methylene chloride	13	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane	5	U		1,4-Bromofluorobenzene - SS	110	
56-23-5	Carbon tetrachloride	5	U		1,2-Dichloroethane-d4 - SS	89	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane	5	U				
78-87-5	1,2-Dichloropropane	5	U				
10061-01-5	cis-1,3-Dichloropropene	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane	5	U				
79-00-5	1,1,2-Trichloroethane	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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BL

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416005	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB0303	Percent Moisture:	8.8	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone	11	U
75-09-2	Methylene chloride	12	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	J	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U				
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride	5	U		1,2-Dichloroethane-d4 - SS	85	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane	5	U				
78-87-5	1,2-Dichloropropane	5	U				
10061-01-5	cis-1,3-Dichloropropene	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane	5	U				
79-00-5	1,1,2-Trichloroethane	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416006	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB042D	Percent Moisture:	9.3	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	6	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	6	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	12	B	127-18-4	Tetrachloroethene	6	U
67-64-1	Acetone	8	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
75-15-0	Carbon disulfide	6	U	108-88-3	Toluene	6	U
75-35-4	1,1-Dichloroethene	6	U	108-90-7	Chlorobenzene	6	U
75-34-3	1,1-Dichloroethane	6	U	100-41-4	Ethylbenzene	6	U
540-59-0	1,2-Dichloroethene (total)	6	U	100-42-5	Styrene	6	U
67-66-3	Chloroform	6	U	1330-20-7	Xylenes (total)	6	U
107-06-2	1,2-Dichloroethane	6	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	6	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	6	U		1,2-Dichloroethane-d4 - SS	89	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	6	U				
78-87-5	1,2-Dichloropropane . . .	6	U				
10061-01-5	cis-1,3-Dichloropropene .	6	U				
79-01-6	Trichloroethene	6	U				
124-48-1	Dibromochloromethane . . .	6	U				
79-00-5	1,1,2-Trichloroethane . .	6	U				
71-43-2	Benzene	6	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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5090 Caterpillar Road, Redding, California 96003-1412
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Bc

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416007	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB0301	Percent Moisture:	7.6	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	12	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	26		79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	90	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416008	Sample Matrix:	SOIL	Date Analyzed:	11/25/92
Client Sample ID:	19BSB0302	Percent Moisture:	8.5	Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	11	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	11	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	11	U	591-78-6	2-Hexanone	11	U
75-00-3	Chloroethane	11	U	108-10-1	4-Methyl-2-pentanone . . .	11	U
75-09-2	Methylene chloride	13	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	25		79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	11	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	88	
108-05-4	Vinyl acetate	11	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416009
Client Sample ID: 20BGWR01

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/26/92
Dilution Factor: 1.0

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	8	B
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	94	
	1,2-Dichloroethane-d4 - SS	92	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.410

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416K10
Client Sample ID: 20BGWT01

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/25/92
Dilution Factor: 1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone	10	U
75-09-2	Methylene chloride	6	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U				
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	99	
71-55-6	1,1,1-Trichloroethane	5	U		1,4-Bromofluorobenzene - SS	93	
56-23-5	Carbon tetrachloride	5	U		1,2-Dichloroethane-d4 - SS	94	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane	5	U				
78-87-5	1,2-Dichloropropane	5	U				
10061-01-5	cis-1,3-Dichloropropene	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane	5	U				
79-00-5	1,1,2-Trichloroethane	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416011
Client Sample ID: 20BGWW0501

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/26/92
Dilution Factor: 1.0

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	B
67-64-1	Acetone	5	BJ
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U

	Toluene-d8 - SS	99	
	1,4-Bromofluorobenzene - SS	94	
	1,2-Dichloroethane-d4 - SS	92	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416012	Sample Matrix:	WATER	Date Analyzed:	11/26/92
Client Sample ID:	20BGW0301	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	9	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	4	BJ	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	99	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	94	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	94	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416013
Client Sample ID: 20BGW0401

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/26/92
Dilution Factor: 1.0

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	B
67-64-1	Acetone	2	BJ
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane . .	5	U
56-23-5	Carbon tetrachloride . . .	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane . . .	5	U
78-87-5	1,2-Dichloropropane . . .	5	U
10061-01-5	cis-1,3-Dichloropropene .	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane . . .	5	U
79-00-5	1,1,2-Trichloroethane . .	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-pentanone . . .	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U

	Toluene-d8 - SS	99	
	1,4-Bromofluorobenzene - SS	94	
	1,2-Dichloroethane-d4 - SS	92	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416014	Sample Matrix:	WATER	Date Analyzed:	11/26/92
Client Sample ID:	20BGW0201	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	8	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	93	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416015	Sample Matrix:	WATER	Date Analyzed:	11/26/9?
Client Sample ID:	20BGW0201D	Percent Moisture:		Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	
75-09-2	Methylene chloride	7	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	98	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.[illegible]09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	34416016	Sample Matrix:	WATER	Date Analyzed:	11/26/92
Client Sample ID:	20BGW0101	Percent Moisture:		Dilution Factor:	1.0

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	7	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	92	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: VBLKW1

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted:
Date Analyzed: 11/25/9
Dilution Factor: 1.

VOLATILE COMPOUNDS

CAS Number		ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	B
67-64-1	Acetone	5	BJ
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

CAS Number		ug/L	
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	
591-78-6	2-Hexanone	10	
108-10-1	4-Methyl-2-pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	
100-42-5	Styrene	5	
1330-20-7	Xylenes (total)	5	
	Toluene-d8 - SS	100	
	1,4-Bromofluorobenzene - SS	94	
	1,2-Dichloroethane-d4 - SS	91	

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: VBLKS1

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture:

Date Extracted:
Date Analyzed: 11/25/92
Dilution Factor: 1.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	U
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	U
75-09-2	Methylene chloride	11	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	U
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	U
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	99	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	85	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	WATER	Date Analyzed:	11/25/9?
Client Sample ID:	VBLKW2	Percent Moisture:		Dilution Factor:	1.

VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
74-87-3	Chloromethane	10	U	10061-02-6	trans-1,3-Dichloropropene	5	U
74-83-9	Bromomethane	10	U	75-25-2	Bromoform	5	U
75-01-4	Vinyl chloride	10	U	591-78-6	2-Hexanone	10	
75-00-3	Chloroethane	10	U	108-10-1	4-Methyl-2-pentanone . . .	10	
75-09-2	Methylene chloride	10	B	127-18-4	Tetrachloroethene	5	U
67-64-1	Acetone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
75-15-0	Carbon disulfide	5	U	108-88-3	Toluene	5	
75-35-4	1,1-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	
75-34-3	1,1-Dichloroethane	5	U	100-41-4	Ethylbenzene	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	100-42-5	Styrene	5	U
67-66-3	Chloroform	5	U	1330-20-7	Xylenes (total)	5	
107-06-2	1,2-Dichloroethane	5	U		---		
78-93-3	2-Butanone	10	U		Toluene-d8 - SS	110	
71-55-6	1,1,1-Trichloroethane . .	5	U		1,4-Bromofluorobenzene - SS	100	
56-23-5	Carbon tetrachloride . . .	5	U		1,2-Dichloroethane-d4 - SS	92	
108-05-4	Vinyl acetate	10	U				
75-27-4	Bromodichloromethane . . .	5	U				
78-87-5	1,2-Dichloropropane . . .	5	U				
10061-01-5	cis-1,3-Dichloropropene .	5	U				
79-01-6	Trichloroethene	5	U				
124-48-1	Dibromochloromethane . . .	5	U				
79-00-5	1,1,2-Trichloroethane . .	5	U				
71-43-2	Benzene	5	U				

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.'09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34416001	Sample Matrix:	SOIL	Date Analyzed:	12/01/92
Client Sample ID:	19BSB0402	Percent Moisture:	8.8	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	360	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	210	J
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

	Nitrobenzene-d5 - SS	77	
	2-Fluorobiphenyl - SS	93	
	Terphenyl-d14 - SS	74	
	Phenol-d5 - SS	71	
	2-Fluorophenol - SS	68	
	2,4,6-Tribromophenol - SS	80	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

BL

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34416002	Sample Matrix:	SOIL	Date Analyzed:	12/03/9
Client Sample ID:	19BSB0403	Percent Moisture:	15.7	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	390	U	121-14-2	2,4-Dinitrotoluene	390	U
111-44-4	bis(2-Chloroethyl)ether .	390	U	84-66-2	Diethylphthalate	390	U
95-57-8	2-Chlorophenol	390	U	7005-72-3	4-Chlorophenyl-phenylether	390	
541-73-1	1,3-Dichlorobenzene . . .	390	U	86-73-7	Fluorene	390	U
106-46-7	1,4-Dichlorobenzene . . .	390	U	100-01-6	4-Nitroaniline	1900	U
100-51-6	Benzyl alcohol	390	U	534-52-1	4,6-Dinitro-2-methylphenol	1900	U
95-50-1	1,2-Dichlorobenzene . . .	390	U	86-30-6	N-Nitrosodiphenylamine (1)	390	
95-48-7	2-Methylphenol	390	U	101-55-3	4-Bromophenyl-phenylether	390	U
108-60-1	bis(2-Chloroisopropyl)ether	390	U	118-74-1	Hexachlorobenzene	390	U
106-44-5	4-Methylphenol	390	U	87-86-5	Pentachlorophenol	1900	
621-64-7	N-Nitroso-di-n-propylamine	390	U	85-01-8	Phenanthrene	530	
67-72-1	Hexachloroethane	390	U	120-12-7	Anthracene	390	U
98-95-3	Nitrobenzene	390	U	84-74-2	Di-n-butylphthalate . . .	390	U
78-59-1	Isophorone	390	U	206-44-0	Fluoranthene	390	
88-75-5	2-Nitrophenol	390	U	129-00-0	Pyrene	390	U
105-67-9	2,4-Dimethylphenol	390	U	85-68-7	Butylbenzylphthalate . . .	390	U
65-85-0	Benzoic acid	1900	U	91-94-1	3,3'-Dichlorobenzidine . .	780	U
111-91-1	bis(2-Chloroethoxy)methane	390	U	56-55-3	Benzo(a)anthracene	390	
120-83-2	2,4-Dichlorophenol	390	U	218-01-9	Chrysene	390	U
120-82-1	1,2,4-Trichlorobenzene . .	390	U	117-81-7	bis(2-Ethylhexyl)phthalate	390	U
91-20-3	Naphthalene	730		117-84-0	Di-n-octylphthalate . . .	390	
106-47-8	4-Chloroaniline	390	U	205-99-2	Benzo(b)fluoranthene . . .	390	
87-68-3	Hexachlorobutadiene . . .	390	U	207-08-9	Benzo(k)fluoranthene . . .	390	U
59-50-7	4-Chloro-3-methylphenol .	390	U	50-32-8	Benzo(a)pyrene	390	U
91-57-6	2-Methylnaphthalene . . .	2600		193-39-5	Indeno(1,2,3-cd)pyrene . .	390	
77-47-4	Hexachlorocyclopentadiene	390	U	53-70-3	Dibenz(a,h)anthracene . .	390	
88-06-2	2,4,6-Trichlorophenol . .	390	U	191-24-2	Benzo(g,h,i)perylene . . .	390	U
95-95-4	2,4,5-Trichlorophenol . .	1900	U		---		
91-58-7	2-Chloronaphthalene . . .	390	U		Nitrobenzene-d5 - SS . . .	100	
88-74-4	2-Nitroaniline	1900	U		2-Fluorobiphenyl - SS . .	58	
131-11-3	Dimethylphthalate	390	U		Terphenyl-d14 - SS	70	
208-96-8	Acenaphthylene	390	U		Phenol-d5 - SS	81	
606-20-2	2,6-Dinitrotoluene	390	U		2-Fluorophenol - SS . . .	73	
99-09-2	3-Nitroaniline	1900	U		2,4,6-Tribromophenol - SS	75	
83-32-9	Acenaphthene	390	U				
51-28-5	2,4-Dinitrophenol	1900	U				
100-02-7	4-Nitrophenol	1900	U				
132-64-9	Dibenzofuran	390	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4 19

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34416003	Sample Matrix:	SOIL	Date Analyzed:	12/01/92
Client Sample ID:	19BSB0401	Percent Moisture:	13.8	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic acid	1900	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	380	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

	Nitrobenzene-d5 - SS	77	
	2-Fluorobiphenyl - SS	85	
	Terphenyl-d14 - SS	79	
	Phenol-d5 - SS	76	
	2-Fluorophenol - SS	66	
	2,4,6-Tribromophenol - SS	74	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34416004	Sample Matrix:	SOIL	Date Analyzed:	12/03/9
Client Sample ID:	19BSB032D	Percent Moisture:	8.0	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	360	U	121-14-2	2,4-Dinitrotoluene	360	U
111-44-4	bis(2-Chloroethyl)ether .	360	U	84-66-2	Diethylphthalate	360	"
95-57-8	2-Chlorophenol	360	U	7005-72-3	4-Chlorophenyl-phenylether	360	
541-73-1	1,3-Dichlorobenzene . . .	360	U	86-73-7	Fluorene	360	U
106-46-7	1,4-Dichlorobenzene . . .	360	U	100-01-6	4-Nitroaniline	1700	U
100-51-6	Benzyl alcohol	360	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	"
95-50-1	1,2-Dichlorobenzene . . .	360	U	86-30-6	N-Nitrosodiphenylamine (1)	360	
95-48-7	2-Methylphenol	360	U	101-55-3	4-Bromophenyl-phenylether	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U	118-74-1	Hexachlorobenzene	360	U
106-44-5	4-Methylphenol	360	U	87-86-5	Pentachlorophenol	1700	
621-64-7	N-Nitroso-di-n-propylamine	360	U	85-01-8	Phenanthrene	360	
67-72-1	Hexachloroethane	360	U	120-12-7	Anthracene	360	U
98-95-3	Nitrobenzene	360	U	84-74-2	Di-n-butylphthalate . . .	360	"
78-59-1	Isophorone	360	U	206-44-0	Fluoranthene	360	
88-75-5	2-Nitrophenol	360	U	129-00-0	Pyrene	360	U
105-67-9	2,4-Dimethylphenol	360	U	85-68-7	Butylbenzylphthalate . . .	360	U
65-85-0	Benzoic acid	1700	U	91-94-1	3,3'-Dichlorobenzidine . .	720	"
111-91-1	bis(2-Chloroethoxy)methane	360	U	56-55-3	Benzo(a)anthracene	360	U
120-83-2	2,4-Dichlorophenol	360	U	218-01-9	Chrysene	360	U
120-82-1	1,2,4-Trichlorobenzene . .	360	U	117-81-7	bis(2-Ethylhexyl)phthalate	360	U
91-20-3	Naphthalene	360	U	117-84-0	Di-n-octylphthalate . . .	360	U
106-47-8	4-Chloroaniline	360	U	205-99-2	Benzo(b)fluoranthene . . .	360	U
87-68-3	Hexachlorobutadiene . . .	360	U	207-08-9	Benzo(k)fluoranthene . . .	360	U
59-50-7	4-Chloro-3-methylphenol .	360	U	50-32-8	Benzo(a)pyrene	360	"
91-57-6	2-Methylnaphthalene . . .	360	U	193-39-5	Indeno(1,2,3-cd)pyrene . .	360	U
77-47-4	Hexachlorocyclopentadiene	360	U	53-70-3	Dibenz(a,h)anthracene . .	360	J
88-06-2	2,4,6-Trichlorophenol . .	360	U	191-24-2	Benzo(g,h,i)perylene . . .	360	U
95-95-4	2,4,5-Trichlorophenol . .	1700	U		----------		
91-58-7	2-Chloronaphthalene . . .	360	U		Nitrobenzene-d5 - SS . . .	84	
88-74-4	2-Nitroaniline	1700	U		2-Fluorobiphenyl - SS . .	76	
131-11-3	Dimethylphthalate	360	U		Terphenyl-d14 - SS	84	
208-96-8	Acenaphthylene	360	U		Phenol-d5 - SS	70	
606-20-2	2,6-Dinitrotoluene	360	U		2-Fluorophenol - SS . . .	70	
99-09-2	3-Nitroaniline	1700	U		2,4,6-Tribromophenol - SS	91	
83-32-9	Acenaphthene	360	U				
51-28-5	2,4-Dinitrophenol	1700	U				
100-02-7	4-Nitrophenol	1700	U				
132-64-9	Dibenzofuran	360	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4 09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416005
Client Sample ID: 19BSB0303

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture: 8.8

Date Extracted: 11/19/92
Date Analyzed: 12/03/92
Dilution Factor: 1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	360	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

	Nitrobenzene-d5 - SS	82	
	2-Fluorobiphenyl - SS	80	
	Terphenyl-d14 - SS	87	
	Phenol-d5 - SS	78	
	2-Fluorophenol - SS	72	
	2,4,6-Tribromophenol - SS	88	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

BL

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34416006	Sample Matrix:	SOIL	Date Analyzed:	12/03/9[illegible]
Client Sample ID:	19BSB042D	Percent Moisture:	9.3	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	360	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	
86-73-7	Fluorene	360	
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	50	
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	
85-01-8	Phenanthrene	360	
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	
129-00-0	Pyrene	360	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	730	U
56-55-3	Benzo(a)anthracene	360	
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	
205-99-2	Benzo(b)fluoranthene	360	
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	
53-70-3	Dibenz(a,h)anthracene	360	
191-24-2	Benzo(g,h,i)perylene	360	U
	Nitrobenzene-d5 - SS	86	
	2-Fluorobiphenyl - SS	79	
	Terphenyl-d14 - SS	80	
	Phenol-d5 - SS	77	
	2-Fluorophenol - SS	75	
	2,4,6-Tribromophenol - SS	92	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4[illegible]09

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34416007	Sample Matrix:	SOIL	Date Analyzed:	12/03/92
Client Sample ID:	19BSB0301	Percent Moisture:	7.6	Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	360	U	121-14-2	2,4-Dinitrotoluene	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U	84-66-2	Diethylphthalate	360	U
95-57-8	2-Chlorophenol	360	U	7005-72-3	4-Chlorophenyl-phenylether	360	U
541-73-1	1,3-Dichlorobenzene	360	U	86-73-7	Fluorene	360	U
106-46-7	1,4-Dichlorobenzene	360	U	100-01-6	4-Nitroaniline	1700	U
100-51-6	Benzyl alcohol	360	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
95-50-1	1,2-Dichlorobenzene	360	U	86-30-6	N-Nitrosodiphenylamine (1)	360	U
95-48-7	2-Methylphenol	360	U	101-55-3	4-Bromophenyl-phenylether	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U	118-74-1	Hexachlorobenzene	360	U
106-44-5	4-Methylphenol	360	U	87-86-5	Pentachlorophenol	1700	U
621-64-7	N-Nitroso-di-n-propylamine	360	U	85-01-8	Phenanthrene	360	U
67-72-1	Hexachloroethane	360	U	120-12-7	Anthracene	360	U
98-95-3	Nitrobenzene	360	U	84-74-2	Di-n-butylphthalate	360	U
78-59-1	Isophorone	360	U	206-44-0	Fluoranthene	360	U
88-75-5	2-Nitrophenol	360	U	129-00-0	Pyrene	360	U
105-67-9	2,4-Dimethylphenol	360	U	85-68-7	Butylbenzylphthalate	360	U
65-85-0	Benzoic acid	1700	U	91-94-1	3,3'-Dichlorobenzidine	710	U
111-91-1	bis(2-Chloroethoxy)methane	360	U	56-55-3	Benzo(a)anthracene	360	U
120-83-2	2,4-Dichlorophenol	360	U	218-01-9	Chrysene	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U	117-81-7	bis(2-Ethylhexyl)phthalate	360	U
91-20-3	Naphthalene	360	U	117-84-0	Di-n-octylphthalate	360	U
106-47-8	4-Chloroaniline	360	U	205-99-2	Benzo(b)fluoranthene	360	U
87-68-3	Hexachlorobutadiene	360	U	207-08-9	Benzo(k)fluoranthene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U	50-32-8	Benzo(a)pyrene	360	U
91-57-6	2-Methylnaphthalene	360	U	193-39-5	Indeno(1,2,3-cd)pyrene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U	53-70-3	Dibenz(a,h)anthracene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U	191-24-2	Benzo(g,h,i)perylene	360	U
95-95-4	2,4,5-Trichlorophenol	1700	U				
91-58-7	2-Chloronaphthalene	360	U				
88-74-4	2-Nitroaniline	1700	U				
131-11-3	Dimethylphthalate	360	U				
208-96-8	Acenaphthylene	360	U				
606-20-2	2,6-Dinitrotoluene	360	U				
99-09-2	3-Nitroaniline	1700	U				
83-32-9	Acenaphthene	360	U				
51-28-5	2,4-Dinitrophenol	1700	U				
100-02-7	4-Nitrophenol	1700	U				
132-64-9	Dibenzofuran	360	U				

Nitrobenzene-d5 - SS	82
2-Fluorobiphenyl - SS	77
Terphenyl-d14 - SS	87
Phenol-d5 - SS	72
2-Fluorophenol - SS	70
2,4,6-Tribromophenol - SS	90

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000069

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	34416008	Sample Matrix:	SOIL	Date Analyzed:	12/02/9
Client Sample ID:	19BSB0302	Percent Moisture:	8.5	Dilution Factor:	1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether .	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene . . .	360	U
106-46-7	1,4-Dichlorobenzene . . .	360	U
100-51-6	Benzyl alcohol	360	U
95-50-1	1,2-Dichlorobenzene . . .	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene . .	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene . . .	360	U
59-50-7	4-Chloro-3-methylphenol .	360	U
91-57-6	2-Methylnaphthalene . . .	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol . .	360	U
95-95-4	2,4,5-Trichlorophenol . .	1700	U
91-58-7	2-Chloronaphthalene . . .	360	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	360	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	"
7005-72-3	4-Chlorophenyl-phenylether	360	
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	
86-30-6	N-Nitrosodiphenylamine (1)	360	
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	"
87-86-5	Pentachlorophenol	1700	
85-01-8	Phenanthrene	360	
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate . . .	360	"
206-44-0	Fluoranthene	360	
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate . . .	360	U
91-94-1	3,3'-Dichlorobenzidine . .	720	
56-55-3	Benzo(a)anthracene	360	
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	"
117-84-0	Di-n-octylphthalate . . .	360	
205-99-2	Benzo(b)fluoranthene . . .	360	
207-08-9	Benzo(k)fluoranthene . . .	360	U
50-32-8	Benzo(a)pyrene	360	"
193-39-5	Indeno(1,2,3-cd)pyrene . .	360	
53-70-3	Dibenz(a,h)anthracene . .	360	U
191-24-2	Benzo(g,h,i)perylene . . .	360	U

	Nitrobenzene-d5 - SS . . .	86	
	2-Fluorobiphenyl - SS . .	85	
	Terphenyl-d14 - SS	100	
	Phenol-d5 - SS	82	
	2-Fluorophenol - SS . . .	79	
	2,4,6-Tribromophenol - SS	92	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000070

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416009
Client Sample ID: 20BGWR01

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 11/16/92
Date Analyzed: 11/21/92
Dilution Factor: 1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

CAS Number		ug/L	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

	Nitrobenzene-d5 - SS	90	
	2-Fluorobiphenyl - SS	92	
	Terphenyl-d14 - SS	110	
	Phenol-d5 - SS	90	
	2-Fluorophenol - SS	88	
	2,4,6-Tribromophenol - SS	92	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416014
Client Sample ID: 20BGW0201

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 11/16/92
Date Analyzed: 11/21/92
Dilution Factor: 1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

CAS Number		ug/L	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
	Nitrobenzene-d5 - SS	96	
	2-Fluorobiphenyl - SS	97	
	Terphenyl-d14 - SS	100	
	Phenol-d5 - SS	89	
	2-Fluorophenol - SS	83	
	2,4,6-Tribromophenol - SS	92	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4[illegible]

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/16/92
Lab Sample ID:	34416015	Sample Matrix:	WATER	Date Analyzed:	11/21/92
Client Sample ID:	20BGW0201D	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U	84-66-2	Diethylphthalate	10	U
95-57-8	2-Chlorophenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
541-73-1	1,3-Dichlorobenzene	10	U	86-73-7	Fluorene	10	U
106-46-7	1,4-Dichlorobenzene	10	U	100-01-6	4-Nitroaniline	50	U
100-51-6	Benzyl alcohol	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
95-50-1	1,2-Dichlorobenzene	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
95-48-7	2-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U	118-74-1	Hexachlorobenzene	10	U
106-44-5	4-Methylphenol	10	U	87-86-5	Pentachlorophenol	50	U
621-64-7	N-Nitroso-di-n-propylamine	10	U	85-01-8	Phenanthrene	10	U
67-72-1	Hexachloroethane	10	U	120-12-7	Anthracene	10	U
98-95-3	Nitrobenzene	10	U	84-74-2	Di-n-butylphthalate	10	U
78-59-1	Isophorone	10	U	206-44-0	Fluoranthene	10	U
88-75-5	2-Nitrophenol	10	U	129-00-0	Pyrene	10	U
105-67-9	2,4-Dimethylphenol	10	U	85-68-7	Butylbenzylphthalate	10	U
65-85-0	Benzoic acid	50	U	91-94-1	3,3'-Dichlorobenzidine	20	U
111-91-1	bis(2-Chloroethoxy)methane	10	U	56-55-3	Benzo(a)anthracene	10	U
120-83-2	2,4-Dichlorophenol	10	U	218-01-9	Chrysene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	10	U
91-20-3	Naphthalene	10	U	117-84-0	Di-n-octylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	205-99-2	Benzo(b)fluoranthene	10	U
87-68-3	Hexachlorobutadiene	10	U	207-08-9	Benzo(k)fluoranthene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U	50-32-8	Benzo(a)pyrene	10	U
91-57-6	2-Methylnaphthalene	10	U	193-39-5	Indeno(1,2,3-cd)pyrene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	53-70-3	Dibenz(a,h)anthracene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	191-24-2	Benzo(g,h,i)perylene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U				
91-58-7	2-Chloronaphthalene	10	U		Nitrobenzene-d5 - SS	88	
88-74-4	2-Nitroaniline	50	U		2-Fluorobiphenyl - SS	94	
131-11-3	Dimethylphthalate	10	U		Terphenyl-d14 - SS	100	
208-96-8	Acenaphthylene	10	U		Phenol-d5 - SS	84	
606-20-2	2,6-Dinitrotoluene	10	U		2-Fluorophenol - SS	80	
99-09-2	3-Nitroaniline	50	U		2,4,6-Tribromophenol - SS	91	
83-32-9	Acenaphthene	10	U				
51-28-5	2,4-Dinitrophenol	50	U				
100-02-7	4-Nitrophenol	50	U				
132-64-9	Dibenzofuran	10	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000073

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

B.

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: 34416016
Client Sample ID: 20BGW0101

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 11/16/92
Date Analyzed: 11/21/9
Dilution Factor: 1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether .	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene . . .	10	U
106-46-7	1,4-Dichlorobenzene . . .	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene . . .	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene . .	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene . . .	10	U
59-50-7	4-Chloro-3-methylphenol .	10	U
91-57-6	2-Methylnaphthalene . . .	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol . .	10	U
95-95-4	2,4,5-Trichlorophenol . .	50	U
91-58-7	2-Chloronaphthalene . . .	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

CAS Number		ug/L	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate . . .	10	U
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate . . .	10	U
91-94-1	3,3'-Dichlorobenzidine . .	20	U
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate . . .	10	
205-99-2	Benzo(b)fluoranthene . . .	10	
207-08-9	Benzo(k)fluoranthene . . .	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene . .	10	
53-70-3	Dibenz(a,h)anthracene . .	10	
191-24-2	Benzo(g,h,i)perylene . . .	10	U

	Nitrobenzene-d5 - SS . . .	91	
	2-Fluorobiphenyl - SS . .	96	
	Terphenyl-d14 - SS	100	
	Phenol-d5 - SS	82	
	2-Fluorophenol - SS . . .	81	
	2,4,6-Tribromophenol - SS	87	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000074

ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/16/92
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	WATER	Date Analyzed:	11/20/92
Client Sample ID:	SBLKW1	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U	84-66-2	Diethylphthalate	10	U
95-57-8	2-Chlorophenol	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
541-73-1	1,3-Dichlorobenzene	10	U	86-73-7	Fluorene	10	U
106-46-7	1,4-Dichlorobenzene	10	U	100-01-6	4-Nitroaniline	50	U
100-51-6	Benzyl alcohol	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
95-50-1	1,2-Dichlorobenzene	10	U	86-30-6	N-Nitrosodiphenylamine (1)	10	U
95-48-7	2-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U	118-74-1	Hexachlorobenzene	10	U
106-44-5	4-Methylphenol	10	U	87-86-5	Pentachlorophenol	50	U
621-64-7	N-Nitroso-di-n-propylamine	10	U	85-01-8	Phenanthrene	10	U
67-72-1	Hexachloroethane	10	U	120-12-7	Anthracene	10	U
98-95-3	Nitrobenzene	10	U	84-74-2	Di-n-butylphthalate	10	U
78-59-1	Isophorone	10	U	206-44-0	Fluoranthene	10	U
88-75-5	2-Nitrophenol	10	U	129-00-0	Pyrene	10	U
105-67-9	2,4-Dimethylphenol	10	U	85-68-7	Butylbenzylphthalate	10	U
65-85-0	Benzoic acid	50	U	91-94-1	3,3'-Dichlorobenzidine	20	U
111-91-1	bis(2-Chloroethoxy)methane	10	U	56-55-3	Benzo(a)anthracene	10	U
120-83-2	2,4-Dichlorophenol	10	U	218-01-9	Chrysene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	10	U
91-20-3	Naphthalene	10	U	117-84-0	Di-n-octylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	205-99-2	Benzo(b)fluoranthene	10	U
87-68-3	Hexachlorobutadiene	10	U	207-08-9	Benzo(k)fluoranthene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U	50-32-8	Benzo(a)pyrene	10	U
91-57-6	2-Methylnaphthalene	10	U	193-39-5	Indeno(1,2,3-cd)pyrene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	53-70-3	Dibenz(a,h)anthracene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	191-24-2	Benzo(g,h,i)perylene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U				
91-58-7	2-Chloronaphthalene	10	U		Nitrobenzene-d5 - SS	90	
88-74-4	2-Nitroaniline	50	U		2-Fluorobiphenyl - SS	92	
131-11-3	Dimethylphthalate	10	U		Terphenyl-d14 - SS	100	
208-96-8	Acenaphthylene	10	U		Phenol-d5 - SS	82	
606-20-2	2,6-Dinitrotoluene	10	U		2-Fluorophenol - SS	82	
99-09-2	3-Nitroaniline	50	U		2,4,6-Tribromophenol - SS	83	
83-32-9	Acenaphthene	10	U				
51-28-5	2,4-Dinitrophenol	50	U				
100-02-7	4-Nitrophenol	50	U				
132-64-9	Dibenzofuran	10	U				

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

B

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CH2M HILL/LRD
Lab Sample ID: METHOD-BLANK
Client Sample ID: SBLKS1

Concentration: LOW
Sample Matrix: SOIL
Percent Moisture:

Date Extracted: 11/19/92
Date Analyzed: 12/01/9^
Dilution Factor: 1.

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg	
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic acid	1600	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U

CAS Number		ug/Kg	
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	
86-73-7	Fluorene	330	
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	"
86-30-6	N-Nitrosodiphenylamine (1)	330	
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	
85-01-8	Phenanthrene	330	
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	
129-00-0	Pyrene	330	
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	"
56-55-3	Benzo(a)anthracene	330	
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	
205-99-2	Benzo(b)fluoranthene	330	
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	
53-70-3	Dibenz(a,h)anthracene	330	
191-24-2	Benzo(g,h,i)perylene	330	U

	Nitrobenzene-d5 - SS	80	
	2-Fluorobiphenyl - SS	83	
	Terphenyl-d14 - SS	78	
	Phenol-d5 - SS	73	
	2-Fluorophenol - SS	70	
	2,4,6-Tribromophenol - SS	75	

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
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ORGANICS ANALYSIS DATA SHEET

Laboratory Name:	CH2M HILL/LRD	Concentration:	LOW	Date Extracted:	11/19/92
Lab Sample ID:	METHOD-BLANK	Sample Matrix:	SOIL	Date Analyzed:	12/02/92
Client Sample ID:	SBLKS2	Percent Moisture:		Dilution Factor:	1.0

SEMIVOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg	
108-95-2	Phenol	330	U	121-14-2	2,4-Dinitrotoluene	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U	84-66-2	Diethylphthalate	330	U
95-57-8	2-Chlorophenol	330	U	7005-72-3	4-Chlorophenyl-phenylether	330	U
541-73-1	1,3-Dichlorobenzene	330	U	86-73-7	Fluorene	330	U
106-46-7	1,4-Dichlorobenzene	330	U	100-01-6	4-Nitroaniline	1600	U
100-51-6	Benzyl alcohol	330	U	534-52-1	4,6-Dinitro-2-methylphenol	1600	U
95-50-1	1,2-Dichlorobenzene	330	U	86-30-6	N-Nitrosodiphenylamine (1)	330	U
95-48-7	2-Methylphenol	330	U	101-55-3	4-Bromophenyl-phenylether	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U	118-74-1	Hexachlorobenzene	330	U
106-44-5	4-Methylphenol	330	U	87-86-5	Pentachlorophenol	1600	U
621-64-7	N-Nitroso-di-n-propylamine	330	U	85-01-8	Phenanthrene	330	U
67-72-1	Hexachloroethane	330	U	120-12-7	Anthracene	330	U
98-95-3	Nitrobenzene	330	U	84-74-2	Di-n-butylphthalate	330	U
78-59-1	Isophorone	330	U	206-44-0	Fluoranthene	330	U
88-75-5	2-Nitrophenol	330	U	129-00-0	Pyrene	330	U
105-67-9	2,4-Dimethylphenol	330	U	85-68-7	Butylbenzylphthalate	330	U
65-85-0	Benzoic acid	1600	U	91-94-1	3,3'-Dichlorobenzidine	660	U
111-91-1	bis(2-Chloroethoxy)methane	330	U	56-55-3	Benzo(a)anthracene	330	U
120-83-2	2,4-Dichlorophenol	330	U	218-01-9	Chrysene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U	117-81-7	bis(2-Ethylhexyl)phthalate	330	U
91-20-3	Naphthalene	330	U	117-84-0	Di-n-octylphthalate	330	U
106-47-8	4-Chloroaniline	330	U	205-99-2	Benzo(b)fluoranthene	330	U
87-68-3	Hexachlorobutadiene	330	U	207-08-9	Benzo(k)fluoranthene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U	50-32-8	Benzo(a)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U	193-39-5	Indeno(1,2,3-cd)pyrene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U	53-70-3	Dibenz(a,h)anthracene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U	191-24-2	Benzo(g,h,i)perylene	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U				
91-58-7	2-Chloronaphthalene	330	U		Nitrobenzene-d5 - SS	78	
88-74-4	2-Nitroaniline	1600	U		2-Fluorobiphenyl - SS	72	
131-11-3	Dimethylphthalate	330	U		Terphenyl-d14 - SS	79	
208-96-8	Acenaphthylene	330	U		Phenol-d5 - SS	69	
606-20-2	2,6-Dinitrotoluene	330	U		2-Fluorophenol - SS	67	
99-09-2	3-Nitroaniline	1600	U		2,4,6-Tribromophenol - SS	79	
83-32-9	Acenaphthene	330	U				
51-28-5	2,4-Dinitrophenol	1600	U				
100-02-7	4-Nitrophenol	1600	U				
132-64-9	Dibenzofuran	330	U				

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