



# Beta Associates

Consultants in Waste Management, Environmental Control and the Geotechnical Sciences

May 29, 1987  
Project 186-1.1

Kalman Companies  
3132 Laguna Street  
San Francisco, California 94123

Attention: Mr. Sam Kalman

Subject: Subsurface Soil and Ground Water  
Contamination Investigation  
Gerber Products Facility  
9401 San Leandro Street  
Oakland, California

Gentlemen:

This report contains details of our Phase I contamination investigation of soil and ground water performed at the subject site. These details consist of the initial site inspection, Phase I of the field investigation, results of chemical analyses performed on selected soil and ground water samples, and conclusions and recommendations based on our findings.

## Site Description

The operations plant at the subject site is located on the northwest corner of San Leandro Street and 98th Avenue, approximately one mile east of Highway 880 in Oakland, California, and was the main focus of this investigation. The remaining two parcels owned by Gerber Products are located on the northwest corner and southwest corner of Railroad Avenue and 98th Avenue, respectively (see Figure 1, Location Map).

## Site Inspection

On March 25, 1987, with the assistance of Ms. Allison Chop of Gerber Products, an inspection was performed at the subject site to locate potential sources of contamination. Through the course of the inspection, several potential on-site sources for contamination were noted. These areas consisted of:

- 1) The underground fuel tanks (1-15,000 gallon diesel, 1-15,000 gallon oil) located adjacent to the boiler room in the southwestern corner of the operations plant.
- 2) The oil storage room located adjacent to the maintenance shop.

- 3) The lower preparation area where acids and caustic solutions have deteriorated a portion of the concrete floor.
- 4) The area between the above ground caustic tank and former underground gasoline tank (which was used to fuel the forklifts).
- 5) The waste disposal area where waste water and other solutions are stored before being discharged to the city sewer system.
- 6) The Wormington building in the southeastern portion of the operations plant where pesticides, solvents, acids, and caustic solutions are stored.
- 7) The area behind the fruit ripening room, under the canopy, where more lubricants, solvents, acids, and caustic solutions are stored.
- 8) The outdoor chemical storage area located on the east side of the cold storage building.
- 9) The southeastern corner of the operations plant which was occupied by a gas station with underground fuel storage tanks (closed approximately 30-40 years ago).
- 10) The small lot located on the northwest corner of 98th Avenue and Railroad Avenue where petroleum products appear to have been spilled.

#### Description of Field Investigation

On April 18, 1987, a Phase I contamination investigation commenced at the subject site to determine whether the soil and ground water beneath the site had been contaminated due to site usage. The parking lot located on the southwest corner of Railroad Avenue and 98th Avenue was not investigated as no potential sources of contamination existed there, however, it was not revealed to us, until we received the site plan on May 20, 1987, that this parcel consisted of more than just the parking lot. Although the history of the remainder of this parcel is unknown, the potential for migration of contaminants through the ground water table from off-site sources does exist.

Prior to any subsurface exploration, all required well construction permits were filed with the Alameda County Flood Control and Water Conservation District, all underground utilities were located by a professional locator service, and twelve to eighteen inch cores were cut through the concrete slab for drilling access.

Eleven borings were drilled on site to investigate the areas outlined above (see Plates 1 and 2, Site Plan). Eight of the borings were drilled with eight-inch diameter hollowstem augers and undisturbed soil samples were obtained at 5 foot intervals with a two-inch diameter Modified California sampler. The remaining three borings (DH-9, DH-10, DH-11) were hand augered and hand sampled as there was no drill rig access. All soil samples obtained were contained within two inch brass liners, wrapped in foil, capped at both ends, labeled, and kept refrigerated for transportation to the laboratory for analysis. Drill holes 1, 2, and 4 (MW-1, MW-2, MW-4) were terminated approximately ten feet below the first encounter of ground water and converted to monitoring wells by installing two-inch diameter, threaded, PVC well casing through the hollowstem augers, with the bottom ten feet of the casings being factory slotted to allow the inflow of ground water. The annular space around the slotted interval of the wells was packed with coarse sand to act as a filter to screen out fine grained sand and silt that could clog the slotted interval. A two foot thick bentonite cap was placed on top of the sand pack filter followed by a cement-bentonite annular seal up to ground surface. The wells were completed within locking vaults inside traffic-rated christy boxes to prevent unauthorized access. A well construction detail is presented of Figure 2.

The wells were then developed using a submersible, positive displacement, bladder pump to ensure that clean ground water was flowing through the slotted intervals freely. When the required number of well volumes were removed, water samples were obtained. Soil and ground water samples to be tested were transported in a refrigerated container to California Water labs of Modesto, accompanied by appropriate chain-of-custody documents.

All augers and down-hole tools were thoroughly steam cleaned between borings and all soil sampling apparatus was steam cleaned between each sampling run to prevent transfer of contamination. The submersible pump used to develop and sample the wells was also steam cleaned between each use.

#### Subsurface Conditions

Interbedded layers of clay and sand were the predominant soil types underlying the site. The clays encountered were fairly stiff containing trace amounts of silt and sand. The sands encountered beneath the site were medium dense and medium to coarse grained. Ground water was initially encountered in MW-1, MW-2, and MW-4 at depths of 10.8 feet, 10.8 feet, and 12.4 feet below ground surface, respectively. Depths to ground water measured after completion of the investigation were 10.28 feet, 10.38 feet, and 10.84 feet, respectively, indicating semi-confined to confined ground water conditions and a westerly ground water flow direction. Logs of the exploratory borings are presented in Appendix A.

### Chemical Analyses

Soil samples analyzed from drill holes 1, 2, 3, 5, 7, 9, 10, and 11 were obtained at depths just below ground surface to determine if any chemicals stored above ground had ever spilled and contaminated the underlying soil. Soil samples analyzed from drill holes 4, 6, and 8 were obtained at depths equivalent to the bases of the underground fuel tanks next to which they were drilled to determine if fuel contained within the tanks had ever leaked and contaminated the soils at depth. Due to the nature of the operations performed on-site, selected soil and ground water samples were analyzed for various compounds. Analytical tests performed on the samples included: 1) volatile organic and aromatic constituents using EPA Test Methods 601/602 (8010/8020 for soil), 2) pesticides and PCBs using EPA Test Method 608 (8080 for soil), 3) total petroleum hydrocarbons using motor oil, diesel fuel, and gasoline as standards, 4) benzene, toluene, and xylene (BTX) which are subconstituents of petroleum products, 5) pH to give an indication if the acids and caustic solutions had affected the soil and ground water quality, 6) ammonia, and 7) chlorine.

Results of the analyses revealed the presence of various volatile organic and aromatic constituents in the soil from DH-8 and in the ground water from MW-1 and MW-2. Results of these analyses are presented in Table 1. Motor oil was also detected in the soil samples obtained from DH-9 and DH-11, however, the concentrations detected are most likely attributable to the oil-treated sub-base beneath the concrete slab. Analysis of the soil sample obtained from drill hole 1 (MW-1) revealed the near-surface soils to be free of chemical contamination, therefore, it appears the contamination in the ground water from MW-1 could be coming from an off-site source. The concentrations of contaminants detected in MW-1 are relatively low, however, the concentration of 1,1-Dichloroethene is above the State Department of Health Services Recommended Drinking Water Action Level. The concentrations of contaminants detected in the soil sample from DH-8 are significantly high to present a threat to ground water quality. The contaminants detected (benzene, toluene, and xylene) are subconstituents of petroleum products (gasoline, diesel fuel, motor oil) and indicate the underground fuel tanks operated at the former gas station had leaked and contaminated the surrounding soil. The ground water contamination detected in MW-2 indicates the fuel that leaked from the underground tanks has affected ground water quality, with the concentrations of toluene and benzene being above the State recommended action levels. Results of all chemical analyses are presented in Appendix B.

Conclusions/Recommendations

Laboratory analysis has revealed the presence of various volatile organic and aromatic constituents in the soil and ground water beneath the subject site. The ground water contamination detected in MW-1 appears to be originating from an off-site source, however this cannot be confirmed without further investigation. The BTEX contamination detected in DH-8 and MW-2 originated from the former gas station located on the southeastern corner of the operations plant, however, it is unknown if the underground tanks were removed or closed in place when the station was closed.

Since significant soil and ground water contamination is present beneath the site, we recommend these results be reported to the State Department of Health Services (DHS) and the Regional Water Quality Control Board (RWQCB). In order to define the vertical and lateral extent of the soil and ground water contamination, the DHS and the RWQCB will require further investigation be performed. When the extent of the contamination is defined, the DHS and the RWQCB may require some degree of clean-up.

Respectfully submitted,

BETA ASSOCIATES, INC.

Daniel L. Shafer  
Project Geologist

reviewed by:

*Jack E. McCollough*  
Jack E. McCollough  
Registered Geologist #1559  
Certified Engineering Geologist #905



**TABLE 1**  
**Results of Soil and Ground Water Analyses**

<u>Compound</u>	<u>Concentration</u>	<u>Action Level</u>
<u>MW-1 (ground water)</u>		
1,1-Dichloroethene	61.0 ppb	6.0 ppb
1,1-Dichloroethane	9.5 ppb	20.0 ppb
1,2-Dichloroethane	0.5 ppb	1.0 ppb
Trichloroethane	93.1 ppb	200.0 ppb
<u>MW-2 (ground water)</u>		
Toluene	121.0 ppb	100.0 ppb
Ethyl Benzene	93.4 ppb	--
Benzene	76.9 ppb	0.7 ppb
Total Xylenes	477.0 ppb	620.0 ppb
<u>DH-8 (soil) 10'</u>		
Benzene	1063 ppb — 1.063 ppm	--
Toluene	9977 ppb — 9.977 ppm	--
Xylene	108,092 ppb 108.092 ppm	--
Gasoline	1017 ppm	*
Motor Oil	240 ppm	*

ppb = parts per billion

ppm = parts per million

\* = general ground water monitoring level (100 ppm)  
 general soil excavation level (1000 ppm)



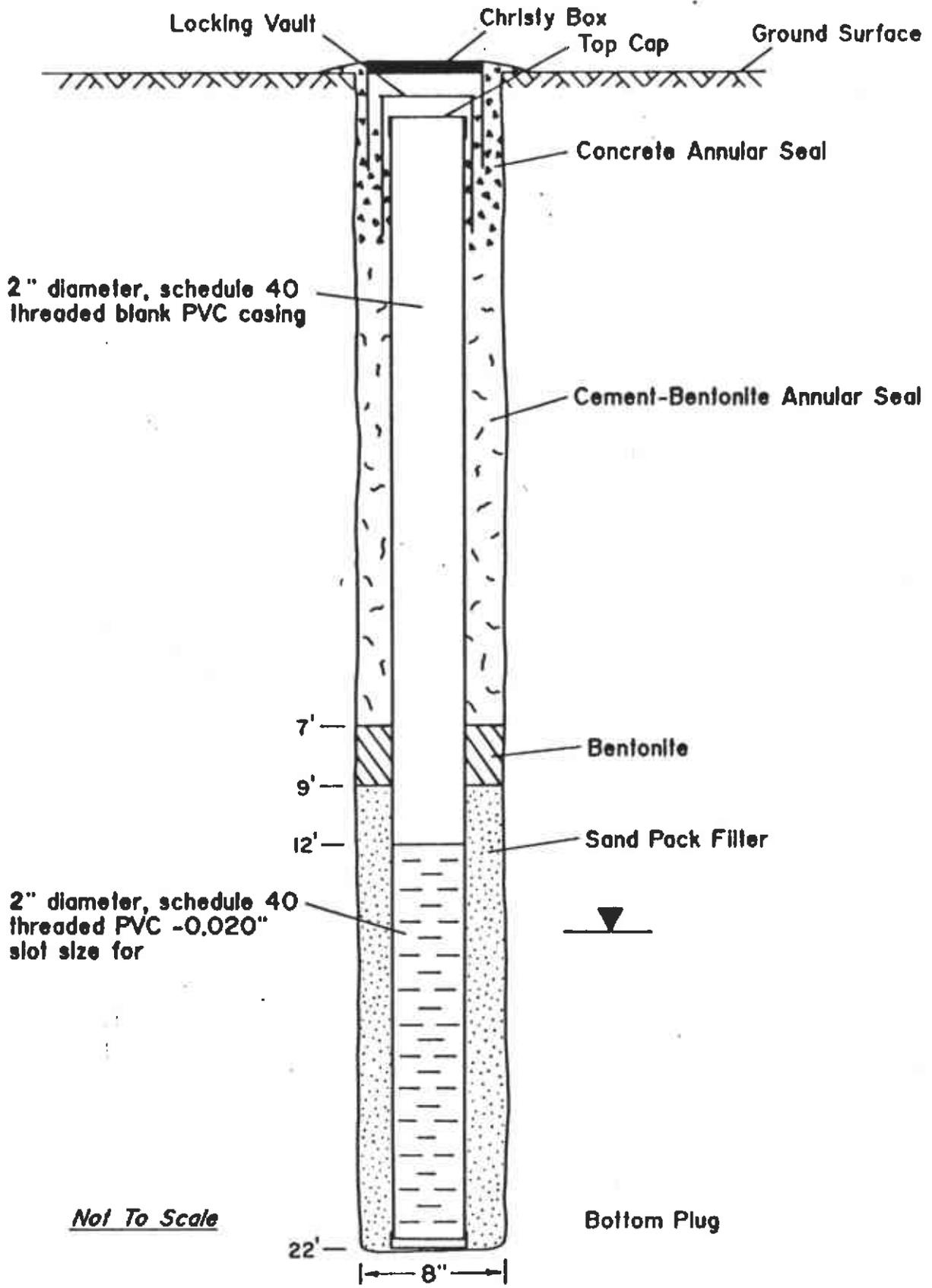
BASE MAP REF: U.S.G.S. 7.5 minute San Leandro topographic quadrangle, photorevised 1980

SCALE: 1" = 2000'

**Beta Associates**

**LOCATION MAP**  
GERBER PRODUCTS  
OAKLAND, CALIFORNIA

**FIGURE**  
**I**  
186-1.1  
5/87



**Beta Associates**

**MONITORING WELL CONSTRUCTION DETAIL**  
 GERBER PRODUCTS  
 OAKLAND, CALIFORNIA

**FIGURE 2**  
 186-1.1  
 5/87

APPENDIX A

Logs of Exploratory Borings

# EXPLORATION DRILL HOLE LOG

**HOLE No.**

DH-1

**PROJECT**  
GERBER PRODUCTS

**DATE**  
04/18/87

**LOGGED BY**  
DLS

**DRILL RIG**  
CME 55

**HOLE DIA.**  
8"

**SAMPLER**  
Modified California

**GROUNDWATER DEPTH INITIAL**  
10.8'

**FINAL**  
10.28'

**HOLE ELEV.**  
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DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN. (psi)	TORVANE (wt)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (psi)
9" concrete.		1										
Gravel sub base.		2										
CLAY, black, damp, stiff, slightly silty.	CI	3	X	10								
		4	X									
		5										
		6	X									
		7	X									
dark brown.		8		13								
medium brown.		9										
		10										
SAND, brown-gray, wet, medium dense, very clayey, slightly gravelly.	SC	11	X	15								
		12	X									
		13										
		14		9								
		15										
		16	X									
		17	X									
		18										
		19										
Bottom of Drillhole @ 22.0'.		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**  
DH-2

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87

**LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8"

**SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL** 10.8' **FINAL** 10.38'

**HOLE ELEV.** --

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN. (psi)	TORVANE (psi)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (psf)
7" concrete.												
gravel sub base.	CI	1										
CLAY, black, damp, stiff, silty.		2										
		3										
		4	X	13								
		5	X									
slightly sandy.		6	X	14								
medium brown, sandy.		7										
Greenish-gray, damp, silty,	SC	8										
very clayey, SAND, firm.		9										
CLAY, brown, damp, stiff, silty.	CI	10										
		11	X	14								
CLAY, gray-brown mottled, damp,	CI	12	X									
stiff, silty.		13										
		14										
SAND, gray, wet, medium dense,	SC	15										
clayey.		16	X	13								
CLAY, gray-brown mottled, damp,		17	X									
stiff, w/ rootholes.		18										
		19										
Bottom of Drillhole @ 23.5'.		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**  
DH-3

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87 **LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8" **SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.** --

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN. (psi)	TORVANE (psi)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (psi)
7" concrete.												
SAND, brown - gray, damp, medium dense.	SP	1										
SAND, orange, damp, medium dense very clayey.	SC	2										
CLAY, black, damp, stiff, silty.	CI	3										
Bottom of Drillhole @ 4.0'. No Ground Water Encountered.		4	X	2								
		5	X									
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**  
DH-4

**PROJECT**  
GERBER PRODUCTS

**DATE**  
04/18/87

**LOGGED BY**  
DLS

**DRILL RIG**  
CME 55

**HOLE DIA.** 8"

**SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL** 12.4'

**FINAL** 10.84'

**HOLE ELEV.** --

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN. (psf)	TORVANE (psf)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (psf)
3" concrete.		1										
CLAY, brown, damp, stiff, gravelly, sandy.	CL	2										
SAND, brown-gray, damp, dense, very coarse grained.	SP	3										
CLAY, black, damp, stiff, silty.	CI	4										
		5										
		6	X	13								
		7	X									
CLAY, greenish-gray, damp, stiff, silty, slightly sandy.	CI	8										
		9										
CLAY, gray-brown mottled, damp, stiff, silty.	CI	10										
		11	X	16								
		12	X									
		13										
SAND, gray, wet, dense, clayey.	SC	14										
CLAY, brown-gray mottled, damp, stiff, silty.		15										
		16	X	10								
		17	X									
		18										
		19										
Bottom of Drillhole @ 22.0'.		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**  
DH-5

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87    **LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8"    **SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.** \_\_

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN. (pcf)	TORVANE (pcf)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN (%)	UNCONFINED SHEAR
SAND/GRAVEL, brown, dry, medium dense.	SP/GP	1										
		2										
		3										
CLAY, dark brown, damp, stiff, very sandy.	CL	4										
		5										
		6	X		18							
		7	X									
dark brown and black.		8										
		9										
CLAY, brown, damp, stiff, silty.	CI	10										
		11	X		13							
Bottom of Drillhole @ 11.0' No Ground Water Encountered.		12	X									
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**  
DH-6

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87

**LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8"

**SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.** --

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN.(psf)	TORVANE(psi)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN(%)	UNCONFINED SHEAR STRENGTH(psf)
3" concrete.		1										
CLAY, brown, damp, stiff, silty, sandy, trace gravel.	CL	2										
CLAY, black, damp, stiff, silty.	CI	3										
		4										
		5										
		6	X	14								
		7	X									
		8										
		9										
		10										
Bottom of Drillhole @ 10.5'. No Ground Water Encountered.		11	X	14								
		12	X									
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**

DH-7

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87

**LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8"

**SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.**

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN.(psi)	TORVANE(%)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN(%)	UNCONFINED SHEAR STRENGTH(psf)
7" concrete.		1										
Gravel sub base.		2										
CLAY, black, damp, stiff, silty.	CI	3										
		4	X	7								
Bottom of Drillhole @ 3.5'. No Ground Water Encountered.		5	X									
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**  
DH-8

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87

**LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8"

**SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.** \_\_

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN.(psi)	TORVANE (psi)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN(%)	UNCONFINED SHEAR STRENGTH(psf)
2" concrete.		1										
CLAY/GRAVEL, orange, damp, stiff, medium dense, sandy.	CL/GC	2										
		3										
		4	X		10							
		5	X									
		6	X		15							
		7	X									
green clay - smells like gas.		8										
CLAY, brown-gray, mottled, damp, stiff, silty - gas odor.		9										
		10										
		11	X		14							
Bottom of Drillhole @ 10.5'. No Ground Water Encountered.		12	X									
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**

DH-9

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87

**LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8"

**SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.**

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN.(psf)	TORVANE(psf)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN(%)	UNCONFINED SHEAR STRENGTH(psf)
8" concrete.												
Gravel, orange/brown, damp, very dense, clayey, very sandy.	GP	1										
		2	X									
Bottom of Drillhole @ 1.0'. No Ground Water Encountered.		3	X									
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**

DH-10

**PROJECT** GERBER PRODUCTS

**DATE** 04/18/87

**LOGGED BY** DLS

**DRILL RIG** CME 55

**HOLE DIA.** 8"

**SAMPLER** Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.**

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN. (psi)	TORVANE (psi)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (psi)
7" concrete.		1										
GRAVEL, brown/gray, wet, very dense, slightly sandy.		2	X									
Bottom of Drillhole @ 1.0'. No Ground Water Encountered.		3	X									
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

# EXPLORATION DRILL HOLE LOG

**HOLE No.**

DH-11

**PROJECT**  
GERBER PRODUCTS

**DATE**  
04/18/87

**LOGGED BY**  
DLS

**DRILL RIG**  
CME 55

**HOLE DIA.**  
8"

**SAMPLER**  
Modified California

**GROUNDWATER DEPTH INITIAL**

**FINAL**

**HOLE ELEV.**

DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN. (psf)	TORVANE (pcf)	LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pcf)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (psf)
7" concrete.		1										
GRAVEL, brown/orange, damp, very dense, clayey, sandy.		2	X									
Bottom of Drillhole @ 1.0'. No Ground Water Encountered.		3	X									
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										

APPENDIX B

Certified Laboratory Analyses

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE — SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave  
City San Jose, Calif Zip 95125  
Sample I.D. Listed  
Collected by: D. Shafer

Lab I.D. Listed  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/18/87

LAB ID	SAMPLE ID	pH	AMMONIA mg/kg	CHLORIDE mg/kg
P-43497	DH-1 @ 3'	8.1	17	-----
P-43498	DH-2 @ 3'	8.1	-----	-----
P-43499	DH-3 @ 2.5'	8.0	----	14
P-43503	DH-7 @ 3.5'	8.0	----	----
P-43506	DH-9 @ 1'	8.8	----	----
P-43507	DH-10 @ 1'	8.4	----	----

Note: the pH values are for a 1:1 soil-water mixture.

Date Received 4/20/87  
Date Started 4/20/87  
Date Completed 5/2/87

By: Joe Lucas

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE — SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor    Beta and Associates  
Street    2068 Lincoln Ave  
City    San Jose, Calif Zip    95125  
Sample I.D.    Listed  
Collected by:    D. Shafer

Lab. I.D.    Listed  
Purchase Order    186-1.1  
Referring Lab  
Date Collected    4/18/87

LAB ID	SAMPLE ID	pH	AMMONIA mg/l	CHLORIDE mg/l
P-43491	MW # 1	8.1	<0.1	----
P-43493	MW # 2	7.6	----	----
P-43495	MW # 4	8.1	----	170

Date Received    4/20/87  
Date Started    4/21/87  
Date Completed    5/6/87

By: *Sue Ferras*

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE -- SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor    Beta and Associates  
Street    2068 Lincoln Ave  
City    San Jose, Calif    Zip    95125  
Sample I.D.    Listed  
Collected by:    D. Shafer

Lab I.D.    Listed  
Purchase Order    186-1.1  
Referring Lab  
Date Collected    4/18/87

LAB ID	PARAMETER	SAMPLE ID	RESULT	DETECTION LIMIT
P-43497	Motor Oil	DH-1	ND	10.0 mg/kg
P_43501	Diesel Motor Oil	DH-5 @ 5'	ND ND	1.0 mg/kg 10.0 mg/kg
P-43506	Motor Oil	DH-9 @ 1'	230 mg/kg	10.0 mg/kg
P-34391	Motor Oil	M.W. # 1	ND	300.0 ug/l

Date Received    4/20/87  
Date Started    5/8/87  
Date Completed    5/11/87

By: *Dee Funnas*

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. DH-1 @ 3'  
Collected by: D. Shafer

Lab I.D. P-43497  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## HALOGENATED/AROMATIC VOLATILE ORGANICS: SOLID MATRICES (METHODS 8010/8020)

COMPOUND	RESULTS ug/kg	DET. LIMIT	COMPOUND	RESULTS ug/kg	DET. LIMIT
CHLOROMETHANE	ND	2.5	1,2-DICHLOROPROPANE	ND	2.5
DICHLORODIFLUOROMETHANE	ND	2.5	TRANS-1,3-DICHLOROPROPENE	ND	2.5
BROMOMETHANE	ND	2.5	TRICHLOROETHYLENE	ND	2.5
VINYL CHLORIDE	ND	5.0	DIBROMOCHLOROMETHANE	ND	2.5
CHLOROETHANE	ND	2.5	CIS-1,3-DICHLOROPROPENE	ND	2.5
METHYLENE CHLORIDE	ND	2.5	1,1,2-TRICHLOROETHANE	ND	2.5
TRICHLOROFLUOROMETHANE	ND	2.5	BROMOFORM	ND	2.5
1,1-DICHLOROETHENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	2.5
1,1-DICHLOROETHANE	ND	2.5	TETRACHLOROETHENE	ND	2.5
TRANS-1,2-DICHLOROETHENE	ND	2.5	CHLOROBENZENE	ND	2.5
CHLOROFORM	ND	2.5	1,2-DICHLOROBENZENE	ND	2.5
1,2-DICHLOROETHANE	ND	2.5	1,3-DICHLOROBENZENE	ND	2.5
1,1,1-TRICHLOROETHANE	ND	2.5	1,4-DICHLOROBENZENE	ND	2.5
CARBON TETRACHLORIDE	ND	2.5	BENZENE	ND	10.0
BROMODICHLOROMETHANE	ND	2.5	ETHYL BENZENE	ND	10.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	TOLUENE	ND	10.0
			XYLENE		20.0

(Sample prepared using Method 5030 for purge and trap.)

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 4/24/87

Ref: SW-846

By: Steve Ferras

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4060

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. MW # 1 Pump Blank  
Collected by: D. Shafer

Lab I.D. P-43492  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## PURGEABLE HALOCARBONS & PURGEABLE AROMATICS (METHOD 601 & 602)

COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L	COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L
CHLOROMETHANE	ND	0.5	1,2-DICHLOROPROPANE	ND	0.5
DICHLORODIFLUOROMETHANE	ND	0.5	TRANS-1,3-DICHLOROPROPENE	ND	0.5
BROMOMETHANE	ND	0.5	TRICHLOROETHYLENE	ND	0.5
VINYL CHLORIDE	ND	1.0	DIBROMOCHLOROMETHANE	ND	0.5
CHLOROETHANE	ND	0.5	CIS-1,3-DICHLOROPROPENE	ND	0.5
METHYLENE CHLORIDE	ND	0.5	1,1,2-TRICHLOROETHANE	ND	0.5
TRICHLOROFLUOROMETHANE	ND	0.5	BROMOFORM	ND	0.5
1,1-DICHLOROETHENE	ND	0.2	1,1,2,2-TETRACHLOROETHANE	ND	0.5
1,1-DICHLOROETHANE	ND	0.5	TETRACHLOROETHENE	ND	0.5
TRANS-1,2-DICHLOROETHENE	ND	0.5	CHLOROBENZENE	ND	0.5
CHLOROFORM	ND	0.5	TOLUENE	ND	0.5
1,2-DICHLOROETHANE	ND	0.5	ETHYL BENZENE	ND	0.5
1,1,1-TRICHLOROETHANE	ND	0.5	BENZENE	ND	0.5
CARBON TETRACHLORIDE	ND	0.5	1,2-DICHLOROBENZENE	ND	0.5
BROMODICHLOROMETHANE	ND	0.5	1,3-DICHLOROBENZENE	ND	0.5
2-CHLOROETHYL VINYL ETHER	ND	1.0	1,4-DICHLOROBENZENE	ND	0.5
			TOTAL XYLENES	ND	0.5

Date Received 4/20/87  
Date Started 4/22/87  
Date Completed 4/23/87

By: Sue Furnas

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE -- SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4080

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. MW # 1  
Collected by: D. Shafer

Lab I.D. P-43491  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## PURGEABLE HALOCARBONS & PURGEABLE AROMATICS (METHOD 601 & 602)

COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L	COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L
CHLOROMETHANE	ND	0.5	1,2-DICHLOROPROPANE	ND	0.5
DICHLORODIFLUOROMETHANE	ND	0.5	TRANS-1,3-DICHLOROPROPENE	ND	0.5
BROMOMETHANE	ND	0.5	TRICHLOROETHYLENE	ND	0.5
VINYL CHLORIDE	ND	1.0	DIBROMOCHLOROMETHANE	ND	0.5
CHLOROETHANE	ND	0.5	CIS-1,3-DICHLOROPROPENE	ND	0.5
METHYLENE CHLORIDE	ND	0.5	1,1,2-TRICHLOROETHANE	ND	0.5
TRICHLOROFLUOROMETHANE	ND	0.5	BROMOFORM	ND	0.5
1,1-DICHLOROETHENE	61.0	0.2	1,1,2,2-TETRACHLOROETHANE	ND	0.5
1,1-DICHLOROETHANE	9.5	0.5	TETRACHLOROETHENE	ND	0.5
TRANS-1,2-DICHLOROETHENE	ND	0.5	CHLOROBENZENE	ND	0.5
CHLOROFORM	ND	0.5	TOLUENE	ND	0.5
1,2-DICHLOROETHANE	0.5	0.5	ETHYL BENZENE	ND	0.5
1,1,1-TRICHLOROETHANE	93.1	0.5	BENZENE	ND	0.5
CARBON TETRACHLORIDE	ND	0.5	1,2-DICHLOROBENZENE	ND	0.5
BROMODICHLOROMETHANE	ND	0.5	1,3-DICHLOROBENZENE	ND	0.5
2-CHLOROETHYL VINYL ETHER	ND	1.0	1,4-DICHLOROBENZENE	ND	0.5
			TOTAL XYLENES	ND	0.5

Date Received 4/20/87  
Date Started 4/22/87  
Date Completed 4/23/87

By: Sue Funnas

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE -- SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. DH-2 @ 3'  
Collected by: D. Shafer

Lab I.D. P-43498  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## HALOGENATED/AROMATIC VOLATILE ORGANICS: SOLID MATRICES (METHODS 8010/8020)

COMPOUND	RESULTS ug/kg	DET. LIMIT	COMPOUND	RESULTS ug/kg	DET. LIMIT
CHLOROMETHANE	ND	2.5	1,2-DICHLOROPROPANE	ND	2.5
DICHLORODIFLUOROMETHANE	ND	2.5	TRANS-1,3-DICHLOROPROPENE	ND	2.5
BROMOMETHANE	ND	2.5	TRICHLOROETHYLENE	ND	2.5
VINYL CHLORIDE	ND	5.0	DIBROMOCHLOROMETHANE	ND	2.5
CHLOROETHANE	ND	2.5	CIS-1,3-DICHLOROPROPENE	ND	2.5
METHYLENE CHLORIDE	ND	2.5	1,1,2-TRICHLOROETHANE	ND	2.5
TRICHLOROFLUOROMETHANE	ND	2.5	BROMOFORM	ND	2.5
1,1-DICHLOROETHENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	2.5
1,1-DICHLOROETHANE	ND	2.5	TETRACHLOROETHENE	ND	2.5
TRANS-1,2-DICHLOROETHENE	ND	2.5	CHLOROBENZENE	ND	2.5
CHLOROFORM	ND	2.5	1,2-DICHLOROBENZENE	ND	2.5
1,2-DICHLOROETHANE	ND	2.5	1,3-DICHLOROBENZENE	ND	2.5
1,1,1-TRICHLOROETHANE	ND	2.5	1,4-DICHLOROBENZENE	ND	2.5
CARBON TETRACHLORIDE	ND	2.5	BENZENE	ND	10.0
BROMODICHLOROMETHANE	ND	2.5	ETHYL BENZENE	ND	10.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	TOLUENE	ND	10.0
			XYLENE	ND	20.0

(Sample prepared using Method 5030 for purge and trap.)

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 4/24/87

Ref: SW-846

By: See Jones

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Calif Zip 95125  
Sample I.D. DH-2 @ 3'  
Collected by: D. Shafer

Lab I.D. P-43498  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## METHOD 8080

PARAMETER	RESULTS mg/kg	DETECTION LIMIT mg/kg	PARAMETER	RESULTS mg/kg	DETECTION LIMIT mg/kg
ALPHA - BHC	ND	0.10	ENDOSULFAN II	ND	0.10
BETA - BHC	ND	0.10	ENDRIN ALDEHYDE	ND	0.10
DELTA - BHC	ND	0.10	P,P' - DDT	ND	0.10
GAMMA - BHC	ND	0.10	ENDOSULFAN SULFATE	ND	0.10
HEPTACHLOR	ND	0.10	CHLORDANE	ND	1.0
ALDRIN	ND	0.10	TOXAPHENE	ND	1.0
HEPTACHLOR EPOXIDE	ND	0.10	PCB - 1016	ND	1.0
ENDOSULFAN I	ND	0.10	PCB - 1221	ND	1.0
P,P' - DDE	ND	0.10	PCB - 1232	ND	1.0
DIELDRIN	ND	0.10	PCB - 1242	ND	1.0
ENDRIN	ND	0.10	PCB - 1248	ND	1.0
P,P' - DDD	ND	0.10	PCB - 1254	ND	1.0
			PCB - 1260	ND	1.0

Date Received 4/20/87  
Date Started 5/7/87  
Date Completed 5/9/87

By: *Mae Ferras*

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE — SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. MW # 2  
Collected by: D. Shafer

Lab I.D. P-43493  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## METHOD 608

PARAMETER	RESULTS ppb	DETECTION LIMIT ppb	PARAMETER	RESULTS ppb	DETECTION LIMIT ppb
ALPHA - BHC	ND	.05	ENDOSULFAN II	ND	.10
BETA - BHC	ND	.05	ENDRIN ALDEHYDE	ND	.10
DELTA - BHC	ND	.05	P,P' - DDT	ND	.10
GAMMA - BHC	ND	.05	ENDOSULFAN SULFATE	ND	.10
HEPTACHLOR	ND	.05	CHLORDANE	ND	.50
ALDRIN	ND	.05	TOXAPHENE	ND	1.0
HEPTACHLOR EPOXIDE	ND	.05	PCB - 1016	ND	.50
ENDOSULFAN I	ND	.05	PCB - 1221	ND	.50
P,P' - DDE	ND	.05	PCB - 1232	ND	.50
DIELDRIN	ND	.10	PCB - 1242	ND	.50
ENDRIN	ND	.10	PCB - 1248	ND	.50
P,P' - DDD	ND	.10	PCB - 1254	ND	.50
			PCB - 1260	ND	.50

Date Received 4/20/87  
Date Started 4/29/87  
Date Completed 5/6/87

By: Sue Ferras

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. MW # 2 Pump Blank  
Collected by: D. Shafer

Lab I.D. P-43494  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## PURGEABLE HALOCARBONS & PURGEABLE AROMATICS (METHOD 601 & 602)

COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L	COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L
CHLOROMETHANE	ND	0.5	1,2-DICHLOROPROPANE	ND	0.5
DICHLORODIFLUOROMETHANE	ND	0.5	TRANS-1,3-DICHLOROPROPENE	ND	0.5
BROMOMETHANE	ND	0.5	TRICHLOROETHYLENE	ND	0.5
VINYL CHLORIDE	ND	1.0	DIBROMOCHLOROMETHANE	ND	0.5
CHLOROETHANE	ND	0.5	CIS-1,3-DICHLOROPROPENE	ND	0.5
METHYLENE CHLORIDE	ND	0.5	1,1,2-TRICHLOROETHANE	ND	0.5
TRICHLOROFLUOROMETHANE	ND	0.5	BROMOFORM	ND	0.5
1,1-DICHLOROETHENE	ND	0.2	1,1,2,2-TETRACHLOROETHANE	ND	0.5
1,1-DICHLOROETHANE	ND	0.5	TETRACHLOROETHENE	ND	0.5
TRANS-1,2-DICHLOROETHENE	ND	0.5	CHLOROBENZENE	ND	0.5
CHLOROFORM	ND	0.5	TOLUENE	ND	0.5
1,2-DICHLOROETHANE	ND	0.5	ETHYL BENZENE	ND	0.5
1,1,1-TRICHLOROETHANE	ND	0.5	BENZENE	ND	0.5
CARBON TETRACHLORIDE	ND	0.5	1,2-DICHLOROBENZENE	ND	0.5
BROMODICHLOROMETHANE	ND	0.5	1,3-DICHLOROBENZENE	ND	0.5
2-CHLOROETHYL VINYL ETHER	ND	1.0	1,4-DICHLOROBENZENE	ND	0.5
			TOTAL XYLENES	ND	0.5

Date Received 4/20/87  
Date Started 4/22/87  
Date Completed 4/23/87

By: See Jones

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE — SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4060

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. MW # 2  
Collected by: D. Shafer

Lab I.D. P-43493  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## PURGEABLE HALOCARBONS & PURGEABLE AROMATICS (METHOD 601 & 602)

COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L	COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L
CHLOROMETHANE	ND	0.5	1,2-DICHLOROPROPANE	ND	0.5
DICHLORODIFLUOROMETHANE	ND	0.5	TRANS-1,3-DICHLOROPROPENE	ND	0.5
BROMOMETHANE	ND	0.5	TRICHLOROETHYLENE	ND	0.5
VINYL CHLORIDE	ND	1.0	DIBROMOCHLOROMETHANE	ND	0.5
CHLOROETHANE	ND	0.5	CIS-1,3-DICHLOROPROPENE	ND	0.5
METHYLENE CHLORIDE	ND	0.5	1,1,2-TRICHLOROETHANE	ND	0.5
TRICHLOROFUOROMETHANE	ND	0.5	BROMOFORM	ND	0.5
1,1-DICHLOROETHENE	ND	0.2	1,1,2,2-TETRACHLOROETHANE	ND	0.5
1,1-DICHLOROETHANE	ND	0.5	TETRACHLOROETHENE	ND	0.5
TRANS-1,2-DICHLOROETHENE	ND	0.5	CHLOROBENZENE	ND	0.5
CHLOROFORM	ND	0.5	TOLUENE	121	0.5
1,2-DICHLOROETHANE	ND	0.5	ETHYL BENZENE	93.4	0.5
1,1,1-TRICHLOROETHANE	ND	0.5	BENZENE	76.9	0.5
CARBON TETRACHLORIDE	ND	0.5	1,2-DICHLOROBENZENE	ND	0.5
BROMODICHLOROMETHANE	ND	0.5	1,3-DICHLOROBENZENE	ND	0.5
2-CHLOROETHYL VINYL ETHER	ND	1.0	1,4-DICHLOROBENZENE	ND	0.5
			TOTAL XYLENES	477	0.5

Date Received 4/20/87  
Date Started 4/22/87  
Date Completed 4/23/87

By: Sue Suras

# California Water Labs, Inc.

P. O. BOX 4240  
 1430 CARPENTER LANE - SUITE G  
 MODESTO, CA 95352  
 PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. DH- 3 @ 2.5'  
Collected by: D. Shafer

Lab I.D. P-43499  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/20/87

HALOGENATED/AROMATIC VOLATILE ORGANICS: SOLID MATRICES (METHODS 8010/8020)

COMPOUND	RESULTS ug/kg	DET. LIMIT	COMPOUND	RESULTS ug/kg	DET. LIMIT
CHLOROMETHANE	ND	2.5	1,2-DICHLOROPROPANE	ND	2.5
DICHLORODIFLUOROMETHANE	ND	2.5	TRANS-1,3-DICHLOROPROPENE	ND	2.5
BROMOMETHANE	ND	2.5	TRICHLOROETHYLENE	ND	2.5
VINYL CHLORIDE	ND	5.0	DIBROMOCHLOROMETHANE	ND	2.5
CHLORETHANE	ND	2.5	CIS-1,3-DICHLOROPROPENE	ND	2.5
METHYLENE CHLORIDE	ND	2.5	1,1,2-TRICHLOROETHANE	ND	2.5
TRICHLOROFLUOROMETHANE	ND	2.5	BROMOFORM	ND	2.5
1,1-DICHLOROETHENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	2.5
1,1-DICHLOROETHANE	ND	2.5	TETRACHLOROETHENE	ND	2.5
TRANS-1,2-DICHLOROETHENE	ND	2.5	CHLOROBENZENE	ND	2.5
CHLOROFORM	ND	2.5	1,2-DICHLOROBENZENE	ND	2.5
1,2-DICHLOROETHANE	ND	2.5	1,3-DICHLOROBENZENE	ND	2.5
1,1,1-TRICHLOROETHANE	ND	2.5	1,4-DICHLOROBENZENE	ND	2.5
CARBON TETRACHLORIDE	ND	2.5	BENZENE	ND	10.0
BROMODICHLOROMETHANE	ND	2.5	ETHYL BENZENE	ND	10.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	TOLUENE	ND	10.0
			XYLENE	ND	20.0

(Sample prepared using Method 5030 for purge and trap.)

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 4/24/87

Ref: SW-846

By: Sue Ferras

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Calif Zip 95125  
Sample I.D. DH-3 @ 2.5'  
Collected by: D. Shafer

Lab I.D. P-43499  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/20/87

## METHOD 8080

PARAMETER	RESULTS mg/kg	DETECTION LIMIT mg/kg	PARAMETER	RESULTS mg/kg	DETECTION LIMIT mg/kg
ALPHA - BHC	ND	0.10	ENDOSULFAN II	ND	0.10
BETA - BHC	ND	0.10	ENDRIN ALDEHYDE	ND	0.10
DELTA - BHC	ND	0.10	P,P' - DDT	ND	0.10
GAMMA - BHC	ND	0.10	ENDOSULFAN SULFATE	ND	0.10
HEPTACHLOR	ND	0.10	CHLORDANE	ND	1.0
ALDRIN	ND	0.10	TOXAPHENE	ND	1.0
HEPTACHLOR EPOXIDE	ND	0.10	PCB - 1016	ND	1.0
ENDOSULFAN I	ND	0.10	PCB - 1221	ND	1.0
P,P' - DDE	ND	0.10	PCB - 1232	ND	1.0
DIELDRIN	ND	0.10	PCB - 1242	ND	1.0
ENDRIN	ND	0.10	PCB - 1248	ND	1.0
P,P' - DDD	ND	0.10	PCB - 1254	ND	1.0
			PCB - 1260	ND	1.0

Date Received 4/20/87  
Date Started 5/7/87  
Date Completed 5/9/87

By: *Sue Jones*

# California Water Labs, Inc.

P O. BOX 4248  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave  
City San Jose, Calif Zip 95125  
Sample I.D. DH-4 @ 10.5'  
Collected by: D. Shafer

Lab I.D. P-43500  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/18/87

BTX

COMPOUND	RESULTS ug/kg	DETECTION LIMIT ug/kg
BENZENE	ND	10.0
TOLUENE	ND	10.0
XYLENE	ND	10.0
Diesel	ND	1.0 mg/kg
Motor Oil	ND	10.0 mg/kg

Date Received 4/20/87  
Date Started 4/21/87  
Date Completed 5/8/87

By: See Furnas

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4060

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. MW 4  
Collected by: D. Shafer

Lab I.D. P-43495  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

BTX

COMPOUND	RESULTS ug/l	DETECTION LIMIT ug/l
BENZENE	ND	10.0
TOLUENE	ND	10.0
XYLENE	ND	10.0
Diesel	ND	50 ug/l
Motor Oil	ND	300 ug/l

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 4/24/87

By: Sue Furrer

# California Water Labs, Inc.

P. O. BOX 4249  
 1430 CARPENTER LANE — SUITE G  
 MODESTO, CA 95352  
 PHONE (209) 527-4050

Purveyor Beta and Associates  
 Street 2068 Lincoln Ave.  
 City San Jose, Ca. Zip 95125  
 Sample I.D. MW # 4  
 Collected by: D. Shafer

Lab I.D. P-43495  
 Purchase Order 186-1.1  
 Referring Lab \_\_\_\_\_  
 Date Collected 4/20/87

## METHOD 608

PARAMETER	RESULTS ppb	DETECTION LIMIT ppb	PARAMETER	RESULTS ppb	DETECTION LIMIT ppb
ALPHA - BHC	ND	.05	ENDOSULFAN II	ND	.10
BETA - BHC	ND	.05	ENDRIN ALDEHYDE	ND	.10
DELTA - BHC	ND	.05	P,P' - DDT	ND	.10
GAMMA - BHC	ND	.05	ENDOSULFAN SULFATE	ND	.10
HEPTACHLOR	ND	.05	CHLORDANE	ND	.50
ALDRIN	ND	.05	TOXAPHENE	ND	1.0
HEPTACHLOR EPOXIDE	ND	.05	PCB - 1016	ND	.50
ENDOSULFAN I	ND	.05	PCB - 1221	ND	.50
P,P' - DDE	ND	.05	PCB - 1232	ND	.50
DIELDRIN	ND	.10	PCB - 1242	ND	.50
ENDRIN	ND	.10	PCB - 1248	ND	.50
P,P' - DDD	ND	.10	PCB - 1254	ND	.50
			PCB - 1260	ND	.50

Date Received 4/20/87  
 Date Started 4/29/87  
 Date Completed 5/6/87

By: See Jones

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. MW #4 Pump Blank  
Collected by: D. Shafer

Lab I.D. P-43496  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

## PURGEABLE HALOCARBONS & PURGEABLE AROMATICS (METHOD 601 & 602)

COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L	COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L
CHLOROMETHANE	ND	0.5	1,2-DICHLOROPROPANE	ND	0.5
DICHLORODIFLUOROMETHANE	ND	0.5	TRANS-1,3-DICHLOROPROPENE	ND	0.5
BROMOMETHANE	ND	0.5	TRICHLOROETHYLENE	ND	0.5
VINYL CHLORIDE	ND	1.0	DIBROMOCHLOROMETHANE	ND	0.5
CHLOROETHANE	ND	0.5	CIS-1,3-DICHLOROPROPENE	ND	0.5
METHYLENE CHLORIDE	ND	0.5	1,1,2-TRICHLOROETHANE	ND	0.5
TRICHLOROFUOROMETHANE	ND	0.5	BROMOFORM	ND	0.5
1,1-DICHLOROETHENE	ND	0.2	1,1,2,2-TETRACHLOROETHANE	ND	0.5
1,1-DICHLOROETHANE	ND	0.5	TETRACHLOROETHENE	ND	0.5
TRANS-1,2-DICHLOROETHENE	ND	0.5	CHLOROBENZENE	ND	0.5
CHLOROFORM	ND	0.5	TOLUENE	ND	0.5
1,2-DICHLOROETHANE	ND	0.5	ETHYL BENZENE	ND	0.5
1,1,1-TRICHLOROETHANE	ND	0.5	BENZENE	ND	0.5
CARBON TETRACHLORIDE	ND	0.5	1,2-DICHLOROBENZENE	ND	0.5
BROMODICHLOROMETHANE	ND	0.5	1,3-DICHLOROBENZENE	ND	0.5
2-CHLOROETHYL VINYL ETHER	ND	1.0	1,4-DICHLOROBENZENE	ND	0.5
			TOTAL XYLENES	ND	0.5

Date Received 4/20/87  
Date Started 4/22/87  
Date Completed 4/23/87

By: Shee Tunnas

# California Water Labs, Inc.

P. O. BOX 4249  
 1430 CARPENTER LANE — SUITE G  
 MODESTO, CA 95352  
 PHONE (209) 527-4060

Surveyor Beta and Associates  
 Street 2068 Lincoln Ave.  
 City San Jose, Ca. Zip 95125  
 Sample I.D. MW #4  
 Collected by: D. Shafer

Lab I.D. P-43495  
 Purchase Order 186-1.1  
 Referring Lab \_\_\_\_\_  
 Date Collected 4/20/87

## PURGEABLE HALOCARBONS & PURGEABLE AROMATICS (METHOD 601 & 602)

COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L	COMPOUND	RESULTS ug/L	DETECTION LIMIT ug/L
CHLOROMETHANE	ND	0.5	1,2-DICHLOROPROPANE	ND	0.5
DICHLORODIFLUOROMETHANE	ND	0.5	TRANS-1,3-DICHLOROPROPENE	ND	0.5
BROMOMETHANE	ND	0.5	TRICHLOROETHYLENE	ND	0.5
VINYL CHLORIDE	ND	1.0	DIBROMOCHLOROMETHANE	ND	0.5
CHLOROETHANE	ND	0.5	CIS-1,3-DICHLOROPROPENE	ND	0.5
METHYLENE CHLORIDE	ND	0.5	1,1,2-TRICHLOROETHANE	ND	0.5
TRICHLOROFLUOROMETHANE	ND	0.5	BROMOFORM	ND	0.5
1,1-DICHLOROETHENE	ND	0.2	1,1,2,2-TETRACHLOROETHANE	ND	0.5
1,1-DICHLOROETHANE	ND	0.5	TETRACHLOROETHENE	ND	0.5
TRANS-1,2-DICHLOROETHENE	ND	0.5	CHLOROBENZENE	ND	0.5
CHLOROFORM	ND	0.5	TOLUENE	ND	0.5
1,2-DICHLOROETHANE	ND	0.5	ETHYL BENZENE	ND	0.5
1,1,1-TRICHLOROETHANE	ND	0.5	BENZENE	ND	0.5
CARBON TETRACHLORIDE	ND	0.5	1,2-DICHLOROBENZENE	ND	0.5
BROMODICHLOROMETHANE	ND	0.5	1,3-DICHLOROBENZENE	ND	0.5
2-CHLOROETHYL VINYL ETHER	ND	1.0	1,4-DICHLOROBENZENE	ND	0.5
			TOTAL XYLENES	ND	0.5

Date Received 4/20/87  
 Date Started 4/22/87  
 Date Completed 4/23/87

By: Sue Suras

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. DH-5 @ 5'  
Collected by: D. Shafer

Lab I.D. P-43501  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/20/87

HALOGENATED/AROMATIC VOLATILE ORGANICS: SOLID MATRICES (METHODS 8010/8020)

COMPOUND	RESULTS ug/kg	DET. LIMIT	COMPOUND	RESULTS ug/kg	DET. LIMIT
CHLOROMETHANE	ND	2.5	1,2-DICHLOROPROPANE	ND	2.5
DICHLORODIFLUOROMETHANE	ND	2.5	TRANS-1,3-DICHLOROPROPENE	ND	2.5
BROMOMETHANE	ND	2.5	TRICHLOROETHYLENE	ND	2.5
VINYL CHLORIDE	ND	5.0	DIBROMOCHLOROMETHANE	ND	2.5
CHLOROETHANE	ND	2.5	CIS-1,3-DICHLOROPROPENE	ND	2.5
METHYLENE CHLORIDE	ND	2.5	1,1,2-TRICHLOROETHANE	ND	2.5
TRICHLOROFLUOROMETHANE	ND	2.5	BROMOFORM	ND	2.5
1,1-DICHLOROETHENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	2.5
1,1-DICHLOROETHANE	ND	2.5	TETRACHLOROETHENE	ND	2.5
TRANS-1,2-DICHLOROETHENE	ND	2.5	CHLOROBENZENE	ND	2.5
CHLOROFORM	ND	2.5	1,2-DICHLOROBENZENE	ND	2.5
1,2-DICHLOROETHANE	ND	2.5	1,3-DICHLOROBENZENE	ND	2.5
1,1,1-TRICHLOROETHANE	ND	2.5	1,4-DICHLOROBENZENE	ND	2.5
CARBON TETRACHLORIDE	ND	2.5	BENZENE	ND	10.0
BROMODICHLOROMETHANE	ND	2.5	ETHYL BENZENE	ND	10.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	TOLUENE	ND	10.0
			XYLENE	ND	20.0

(Sample prepared using Method 5030 for purge and trap.)

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 4/24/87

Ref: SW-846

By: Sue Ferras

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4080

Purveyor Beta and Associates  
Street 2068 Lincoln Ave  
City San Jose, Calif Zip 95125  
Sample I.D. DH-6 @ 10.5'  
Collected by: D. Shafer

Lab I.D. p-43502  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/18/87

GTX

COMPOUND	RESULTS ug/kg	DETECTION LIMIT ug/kg
BENZENE	ND	10.0
TOLUENE	ND	10.0
XYLENE	ND	10.0
Diesel	ND	1.0 mg/kg
Motor Oil	ND	10.0 mg/kg

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 5/8/87

By: Sue Furnas

# California Water Labs, Inc.

P. O. BOX 4248  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4060

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. DH-7 @ 3.5'  
Collected by: D. Shafer

Lab I.D. P-43503  
Purchase Order 186-1.1  
Referring Lab \_\_\_\_\_  
Date Collected 4/20/87

BTX

COMPOUND	RESULTS ug/kg	DETECTION LIMIT ug/kg
BENZENE	ND	10.0
TOLUENE	ND	10.0
XYLENE	ND	10.0
Gasoline	ND	1.0 mg/kg

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 4/24/87

By: Sue Ferras

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor Beta and Associates  
Street 2068 Lincoln Ave.  
City San Jose, Ca. Zip 95125  
Sample I.D. DR-7 @ 3.5'  
Collected by: D. Shafer

Lab I.D. P-43503  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/20/87

HALOGENATED/AROMATIC VOLATILE ORGANICS: SOLID MATRICES (METHODS 8010/8020)

COMPOUND	RESULTS ug/kg	DET. LIMIT	COMPOUND	RESULTS ug/kg	DET. LIMIT
CHLOROMETHANE	ND	2.5	1,2-DICHLOROPROPANE	ND	2.5
DICHLORODIFLUOROMETHANE	ND	2.5	TRANS-1,3-DICHLOROPROPENE	ND	2.5
BROMOMETHANE	ND	2.5	TRICHLOROETHYLENE	ND	2.5
VINYL CHLORIDE	ND	5.0	DIBROMOCHLOROMETHANE	ND	2.5
CHLOROETHANE	ND	2.5	CIS-1,3-DICHLOROPROPENE	ND	2.5
METHYLENE CHLORIDE	ND	2.5	1,1,2-TRICHLOROETHANE	ND	2.5
TRICHLOROFLUOROMETHANE	ND	2.5	BROMOFORM	ND	2.5
1,1-DICHLOROETHENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	2.5
1,1-DICHLOROETHANE	ND	2.5	TETRACHLOROETHENE	ND	2.5
TRANS-1,2-DICHLOROETHENE	ND	2.5	CHLOROBENZENE	ND	2.5
CHLOROFORM	ND	2.5	1,2-DICHLOROBENZENE	ND	2.5
1,2-DICHLOROETHANE	ND	2.5	1,3-DICHLOROBENZENE	ND	2.5
1,1,1-TRICHLOROETHANE	ND	2.5	1,4-DICHLOROBENZENE	ND	2.5
CARBON TETRACHLORIDE	ND	2.5	BENZENE	ND	10.0
BROMODICHLOROMETHANE	ND	2.5	ETHYL BENZENE	ND	10.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	TOLUENE	ND	10.0
			XYLENE	ND	20.0

(Sample prepared using Method 5030 for purge and trap.)

Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 4/24/87

Ref: SW-846

By: See Furnas

# California Water Labs, Inc.

P. O. BOX 4248  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 927-4080

Purveyor Beta and Associates  
Street 2068 Lincoln Ave  
City San Jose, Calif Zip 95125  
Sample I.D. [REDACTED]  
Collected by: D. Shafer

Lab I.D. P-43505  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/18/87

BTX

COMPOUND	RESULTS ug/kg	DETECTION LIMIT ug/kg
[REDACTED]	[REDACTED]	10.0
[REDACTED]	[REDACTED]	10.0
[REDACTED]	108,092	10.0

Gasoline	1017 mg/kg	1.0 mg/kg
Diesel	ND	1.0 mg/kg
Motor Oil	240	10.0 mg/kg

Date Received 4/20/87  
Date Started 4/27/87  
Date Completed 5/12/87

By: See Furas

# California Water Labs, Inc.

P. O. BOX 4249  
1430 CARPENTER LANE — SUITE G  
MODESTO, CA 95352  
PHONE (209) 527-4050

Purveyor    Beta and Associates  
Street    2068 Lincoln Ave.  
City    San Jose, Ca.    Zip    95125  
Sample I.D.    DH-9 @ 1'  
Collected by:    D. Shafer

Lab I.D.    P-43506  
Purchase Order    186-1.1  
Referring Lab  
Date Collected    4/20/87

HALOGENATED/AROMATIC VOLATILE ORGANICS:    SOLID MATRICES    (METHODS 8010/8020)

COMPOUND	RESULTS ug/kg	DET. LIMIT	COMPOUND	RESULTS ug/kg	DET. LIMIT
CHLOROMETHANE	ND	2.5	1,2-DICHLOROPROPANE	ND	2.5
DICHLORODIFLUOROMETHANE	ND	2.5	TRANS-1,3-DICHLOROPROPENE	ND	2.5
BROMOMETHANE	ND	2.5	TRICHLOROETHYLENE	ND	2.5
VINYL CHLORIDE	ND	5.0	DIBROMOCHLOROMETHANE	ND	2.5
CHLOROETHANE	ND	2.5	CIS-1,3-DICHLOROPROPENE	ND	2.5
METHYLENE CHLORIDE	ND	2.5	1,1,2-TRICHLOROETHANE	ND	2.5
TRICHLOROFLUOROMETHANE	ND	2.5	BROMOFORM	ND	2.5
1,1-DICHLOROETHENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	2.5
1,1-DICHLOROETHANE	ND	2.5	TETRACHLOROETHENE	ND	2.5
TRANS-1,2-DICHLOROETHENE	ND	2.5	CHLOROBENZENE	ND	2.5
CHLOROFORM	ND	2.5	1,2-DICHLOROBENZENE	ND	2.5
1,2-DICHLOROETHANE	ND	2.5	1,3-DICHLOROBENZENE	ND	2.5
1,1,1-TRICHLOROETHANE	ND	2.5	1,4-DICHLOROBENZENE	ND	2.5
CARBON TETRACHLORIDE	ND	2.5	BENZENE	ND	10.0
BROMODICHLOROMETHANE	ND	2.5	ETHYL BENZENE	ND	10.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	TOLUENE	ND	10.0
			XYLENE	ND	20.0

(Sample prepared using Method 5030 for purge and trap.)

Date Received    4/20/87  
Date Started    4/23/87  
Date Completed    4/24/87

Ref: SW-846

By: Sue Ferras

# California Water Labs, Inc.

P O. BOX 4249  
1430 CARPENTER LANE - SUITE G  
MODESTO, CA 95352  
PHONE (209) 927-4090

Surveyor Beta and Associates  
Street 2068 Lincoln Ave  
City San Jose, Calif Zip 95125  
Sample I.D. DH 11 @ 1'  
Collected by: D. Shafer

Lab I.D. P-43508  
Purchase Order 186-1.1  
Referring Lab  
Date Collected 4/18/87

OTX

COMPOUND	RESULTS ug/kg	DETECTION LIMIT ug/kg
BENZENE	ND	10.0
TOLUENE	ND	10.0
XYLENE	ND	10.0

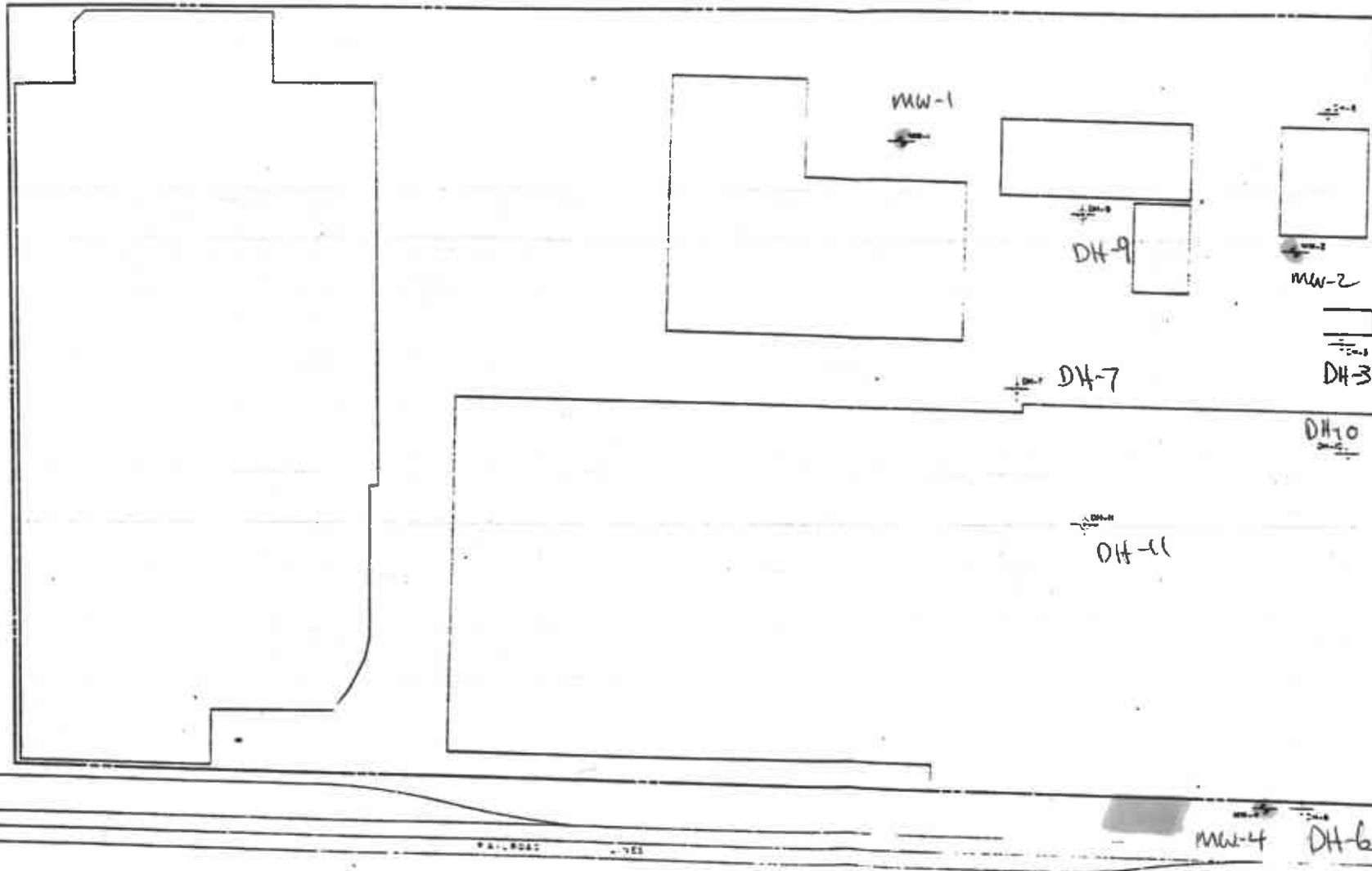
~~Motor Oil~~

~~10 mg/kg~~ 10 mg/kg

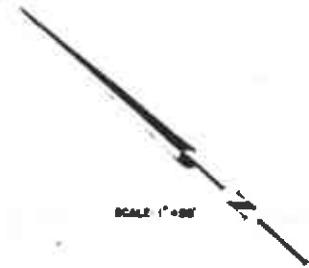
Date Received 4/20/87  
Date Started 4/23/87  
Date Completed 5/12/87

By: Shee Furnas

SAN LEANDRO STREET



DH-8



LEGEND

-  SOIL BORING LOCATION
-  MONITORING WELL LOCATION
-  HAND BORED LOCATION (PROJECTION)
-  PROPERTY LINE

98th AVENUE

RAILROAD AVENUE

Beta Associates

SITE PLAN  
GERBER PRODUCTS  
OAKLAND, CALIFORNIA

PLATE  
1  
Project 198-11  
Date 5/87

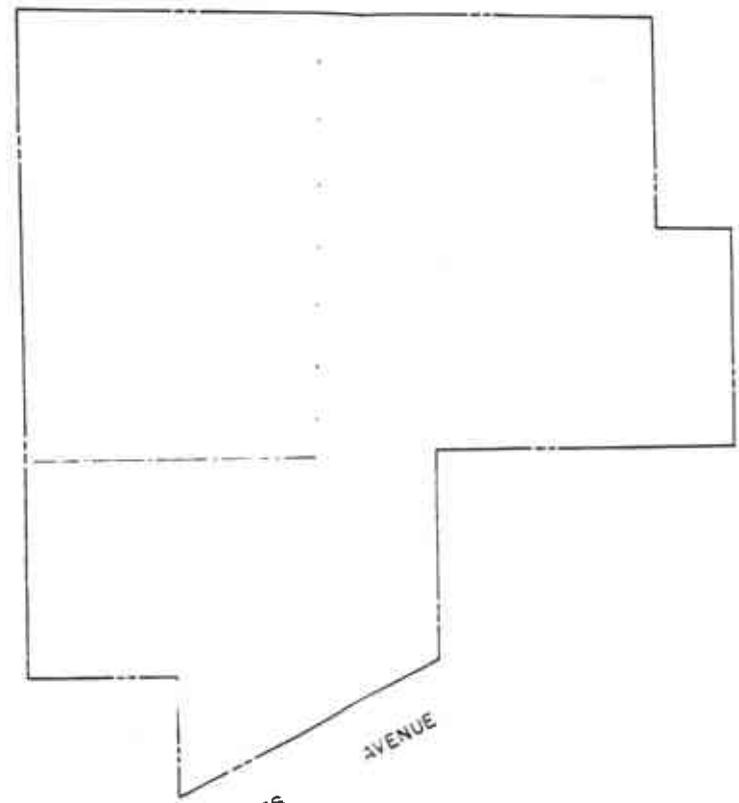


SCALE 1" = 50'

RAILROAD AVENUE



98th AVENUE



EDES AVENUE

- LEGEND
- SOIL BORING LOCATION
  - PROPERTY LINE
  - FENCE LINE

Beta Associates

SITE PLAN  
JERBER PRODUCTS  
OAKLAND, CALIFORNIA

2