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April 16, 1991  
Project No. RC01904

Mr. Ariu Levi *Barney*  
Division of Hazardous Materials  
Department of Environmental Health  
Alameda County Health Care Services Agency  
80 Swan Way  
Oakland, CA 94621

SUBJECT:      Results of Monthly Ground-Water Monitoring, March 1991, Former  
                 Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, California

Dear Mr. Levi:

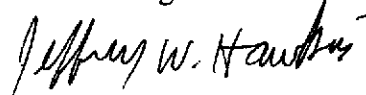
The above referenced report is being forwarded to you at the request of Penske Truck Leasing Co (Penske). The report details the results of the monthly ground-water monitoring well sampling for March at the former Penske Truck Leasing Facility at 725 Julie Ann Way, Oakland. The monthly sampling has been completed in response to the requirements for ground-water sampling contained in the Alameda County Health Care Services, Department of Environmental Health letter to Penske dated October 24, 1989.

If you have any questions, please do not hesitate to call.

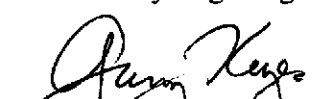
Sincerely,  
GERAGHTY & MILLER, INC.



Paul V. Hehn  
Staff Geologist



Jeffrey W. Hawkins  
Senior Hydrogeologist/Project Manager



Gary W. Keyes, P.E.  
Principal Engineer/Project Officer

91 APR 22 AM 10:54

CC:      Mr. Marc Althen  
         Penske Truck Leasing Co.

April 11, 1991  
Project No. RC01904

Mr. Marc E. Althen  
Manager, Environmental Services  
Penske Truck Leasing Co.  
Route 10, Green Hills  
P.O. Box 563  
Reading, PA 19603  
(216) 775-6268

SUBJECT: Results of Monthly Ground-Water Monitoring, March 1991, Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, California

Dear Mr. Althen,

This report presents the results of the monthly ground-water monitoring performed on March 25, 1991, at the former Penske Truck Leasing Co. (Penske) facility referenced above (see Figure 1). The scope of work for this project was presented to Penske in a previous Geraghty & Miller, Inc. (Geraghty & Miller) letter dated February 7, 1991. The monthly monitoring program consists of collecting depth-to-water measurements, total-well-depth measurements, and water samples from the three wells located at the project site.

### FIELD PROCEDURES

The monthly ground-water monitoring was performed on March 25, 1991. Ground-water samples were collected from Monitor Wells MW-1 through MW-3. The monitor well locations are shown in Figure 2.

Prior to sampling, depth-to-water and total-well-depth measurements were obtained from each well and the wells were checked for the presence of liquid-phase hydrocarbons, with a new disposable polyethylene bailer used for each well. Phase-separated hydrocarbons were not observed in any of the wells. Each well was purged of approximately four casing volumes of water using a 1-inch diaphragm pump. A summary of the field data is presented in Table 1. Purged water was stored on site in 55-gallon drums and arrangements are currently being made for proper disposal of the purge water by Penske.

Ground-water samples were collected following purging, with a new polyethylene bailer used for each well. Ground-water samples were placed into the appropriate USEPA approved containers, placed on ice, and transported to Superior Analytical Laboratory, Inc. located in San Francisco, California, along with appropriate chain-of-custody documentation. The water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (USEPA Method 8015, modified) TPH as diesel (USEPA Method 8015, modified) and benzene, toluene, xylenes, and ethylbenzene (BTXE) (USEPA Method 8020).

## **RESULTS**

### **SHALLOW GROUND-WATER FLOW**

A summary of the depth-to-water data is presented in Table 2. Depth-to-water ranged from approximately 7.35 feet (Monitor Well MW-1) to 7.98 feet (Monitor Well MW-3) below the ground surface. A ground-water contour map based on the ground-water elevation data collected on March 25, 1991, is presented in Figure 2. The direction of ground-water flow, based on the March 1991 data, is toward the west at a hydraulic gradient of 0.003 ft/ft.

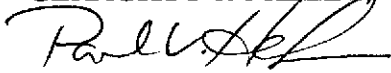
### **GROUND-WATER ANALYTICAL RESULTS**

A summary of the ground-water analytical results is presented in Table 2. Copies of the certified laboratory reports and chain-of-custody documentation are included in Attachment 1. TPH as gasoline were detected in Monitor Well MW-1 (73  $\mu\text{g/L}$ ). TPH as diesel were detected in Monitor Well MW-1 (160  $\mu\text{g/L}$ ). Benzene was detected in the water samples collected from Monitor Wells MW-1 (10  $\mu\text{g/L}$ ) and MW-3 (0.6  $\mu\text{g/L}$ ). Ethylbenzene (0.5  $\mu\text{g/L}$ ) was also detected in the water sample collected from Monitor Well MW-1.

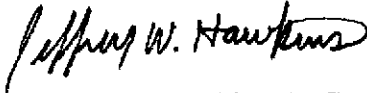
Geraghty & Miller recommends that a copy of this monthly ground-water monitoring report be forwarded to the Alameda County Health Care Services Agency, Department of Environmental Health in Oakland, California.

Geraghty & Miller appreciates the opportunity to be of service to Penske. If you have any questions regarding this proposal, please do not hesitate to call.

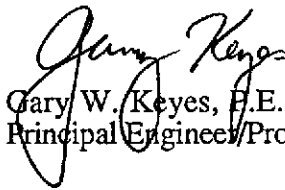
Sincerely,  
GERAGHTY & MILLER, INC.



Paul V. Hehn  
Staff Scientist/Project Geologist



Jeffrey W. Hawkins, R.G.  
Senior Scientist/Project Manager



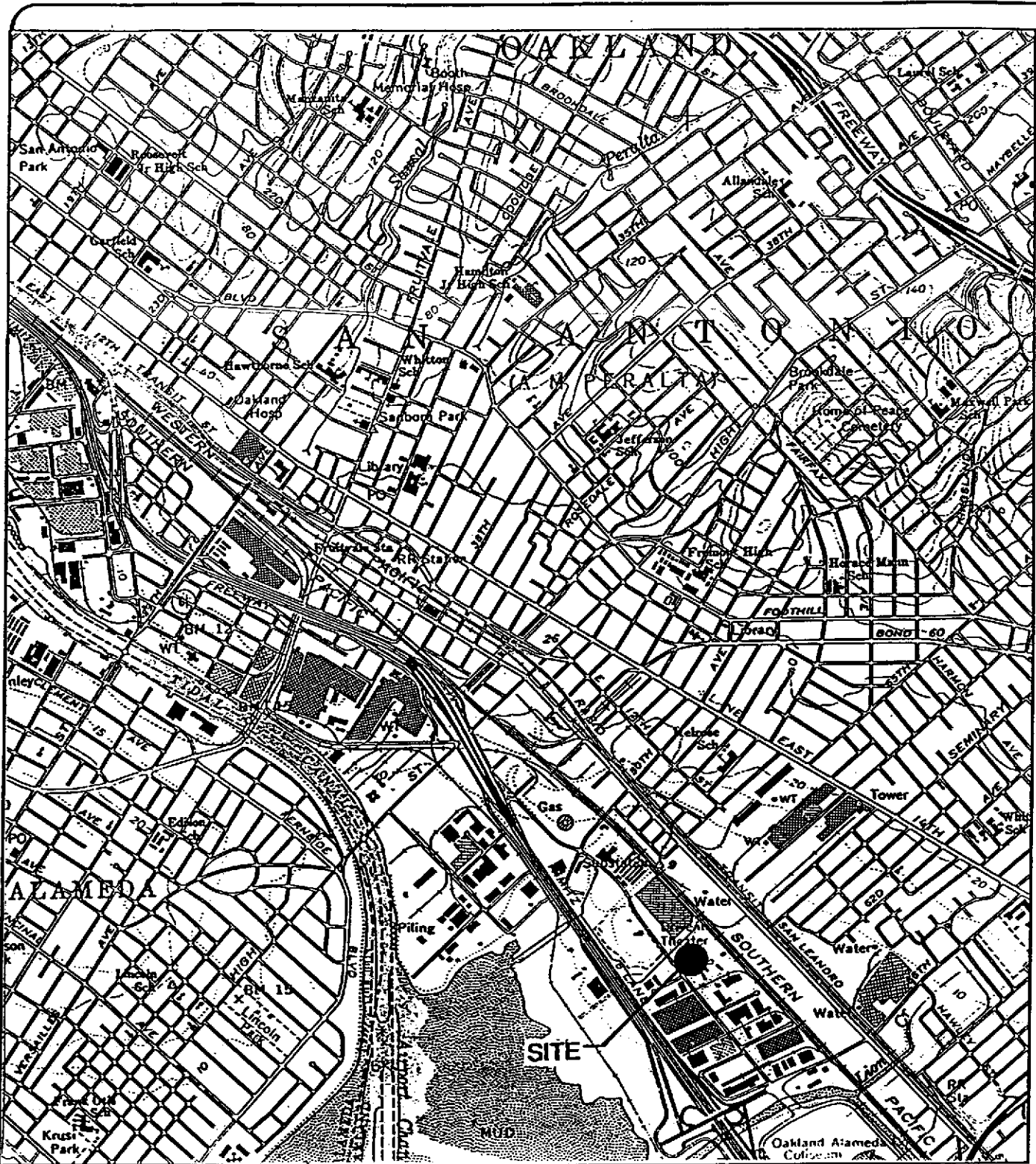
Gary W. Keyes, E.E.  
Principal Engineer/Project Officer

- Attachments: Table 1 - Summary of Field Sampling, Depth-to-Water  
and Casing Elevation Data  
Table 2 - Summary of Ground-Water Analytical Results  
  
Figure 1 - Site Location Map  
Figure 2 - Ground-Water Contour Map  
  
Attachment 1 - Copies of Certified Laboratory Reports and Chain-of-Custody  
Documentation

REFERENCES

Geraghty & Miller, November 15, 1990, Results of Initial Soil and Ground-Water Assessment Activities, Former Penske Truck Leasing Co. Facility, 725 Julie Ann Way, Oakland, California.

Geraghty & Miller, February 7, 1991, Scope of Work and Project Budget Estimate for Ground-Water Monitoring Activities for the Period February 1991 through February 1992, Former Penske Truck Leasing Co. Facility, 725 Julie Ann Way, Oakland, California.



Reference: USGS Oakland East, Ca. 7 1/2 Min. Quad  
 Scale: 1:24,000

● = Site



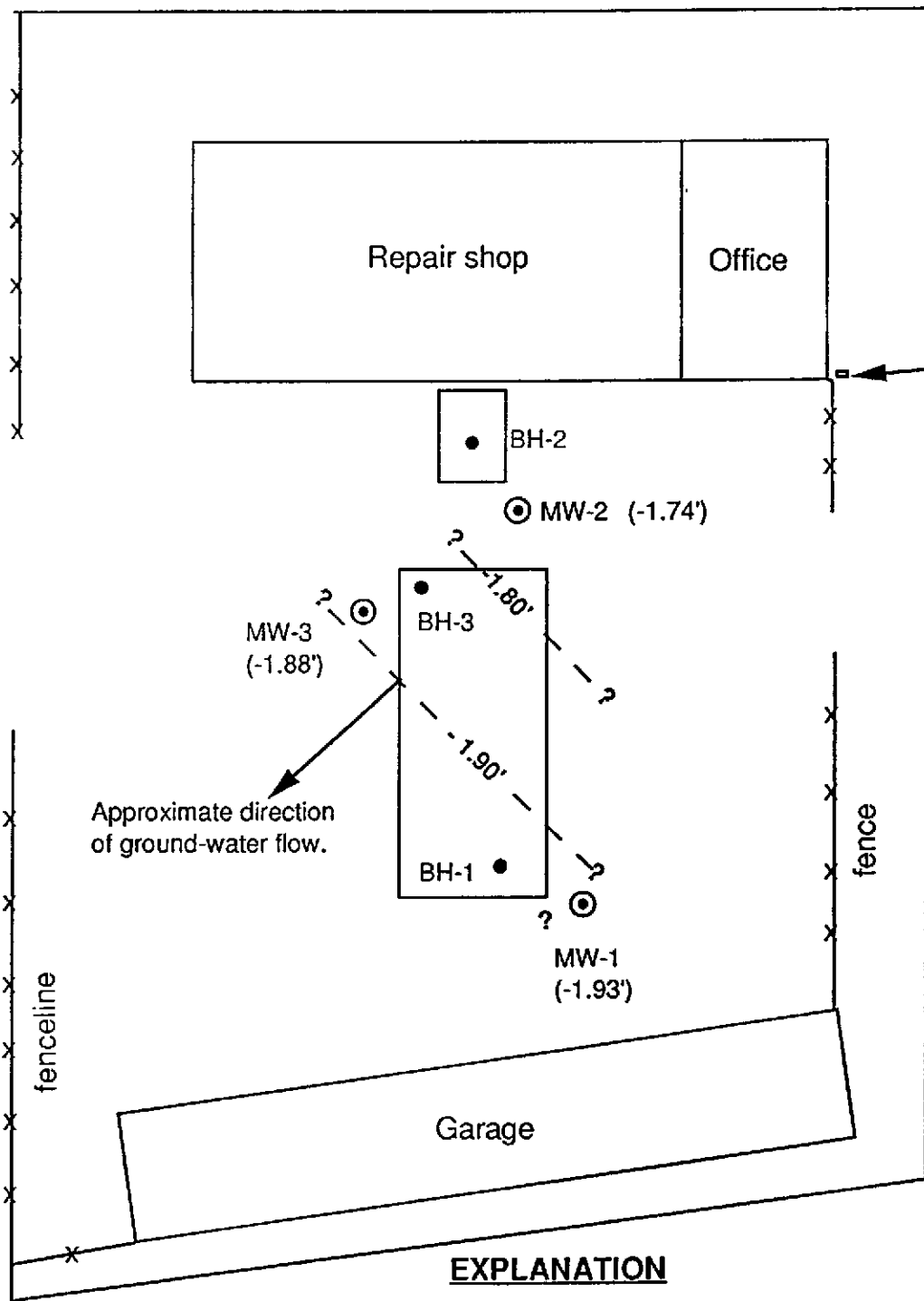
**GERAGHTY & MILLER, INC.**  
 Environmental Services

Proj. No. RC01904 Date: March 19, 1991

**SITE LOCATION MAP**  
 Former Penske Truck Leasing Co.  
 724 Julie Ann Way  
 Oakland, California

FIGURE

1



**EXPLANATION**

- BH-1 ● = Approximate location of soil borings
- MW-1 ⊙ = Approximate location of ground-water monitor well
- BM = Survey Bench Mark (based on City of Oakland datum which is 3 feet higher than Mean Sea Level).

- (-1.88') = Ground-Water elevation (feet), measured March 25, 1991.
- ? -1.80' = Ground-water elevation contour (feet); Dashed where inferred, queried where uncertain; (contour interval equals 0.10 foot).

Table 1 - Summary of Field Sampling, Depth-to-Water, and Casing Elevation Data  
 Monthly and Quarterly Water Sampling  
 Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA.

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet MSL)	Top of Water Elevation (feet MSL)	Measured Depth of Well (a) (feet)	Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Stabilized pH	Temp. (F)	SC (µmhos/cm)	Casing Diameter (inches)
MW-1	2-Oct-90	9.76	5.42	-4.34	37.28	59	47	6.71	87.5	536	4
	28-Feb-91	8.54	5.42	-3.12	33.58	65	70	6.3	66	970	4
	25-Mar-91	7.35	5.42	-1.93	33.5	71	75	6.5	64	720	4
MW-2	2-Oct-90	10.38	6.21	-4.17	32.97	48	47	6.92	86.4	546	4
	28-Feb-91	9.19	6.21	-2.98	29.39	53	55	6.6	64	946	4
	25-Mar-91	7.95	6.21	-1.74	29.39	57	70	6.6	63	640	4
MW-3	2-Oct-90	10.38	6.10	-4.28	37.08	57	54	6.89	88.4	639	4
	28-Feb-91	9.45	6.10	-3.35	31.61	58	60	6.1	66	1,020	4
	25-Mar-91	7.98	6.10	-1.88	31.6	70	75	6.4	65	820	4

(a) Measured from top of PVC casing.

(b) Based on four casing volumes.

SC Specific Conductance

MSL Mean Sea-Level



Table 2 - Ground-Water Analytical Results  
 Monthly and Quarterly Water Sampling  
 Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA.

Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)
MW-1	2-Oct-90	170	2,900	20.0	18.0	1.9	5.7
	28-Feb-91	260	550	43.0	1.0	7.0	1.0
	25-Mar-91	73	160	10.0	ND(<0.3)	0.5	ND(<0.3)
MW-2	2-Oct-90	ND(<50)	80	0.4	ND(<0.3)	ND(<0.3)	0.5
	28-Feb-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)
	25-Mar-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)
MW-3	2-Oct-90	ND(<50)	90	28.0	3.1	0.6	1.5
	28-Feb-91	ND(<50)	ND(<50)	6.0	ND(<0.3)	ND(<0.3)	ND(<0.3)
	25-Mar-91	ND(<50)	ND(<50)	0.6	ND(<0.3)	ND(<0.3)	ND(<0.3)

(a) Total Petroleum Hydrocarbons analyzed by USEPA Method 8015, modified.

(b) Analyzed by USEPA Method 8020.

( ) Reported detection limit

ND Not Detected

Analysis by Superior Analytical Laboratories, Inc. San Francisco, California.

Attachment 1

Copies of Certified Laboratory Reports  
and  
Chain-of-Custody Documentation

# SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

## C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 53376  
CLIENT: Geraghty & Miller Inc.  
CLIENT JOB NO.: RC01904

DATE RECEIVED: 03/26/91  
DATE REPORTED: 04/03/91

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES  
by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration(ug/L)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	MW-1	10	ND<0.3	0.5	ND<0.3
2	MW-2	ND<0.3	ND<0.3	ND<0.3	ND<0.3
3	MW-3	0.6	ND<0.3	ND<0.3	ND<0.3

ug/L - parts per billion (ppb)

Minimum Detection Limit in Water:0.3ug/L

### QAQC Summary:

Daily Standard run at 20ug/L: %Diff 8020 = <15  
MS/MSD Average Recovery = 96% : Duplicate RPD = 2%

Richard Srna, Ph.D.

*Cecilia G. Grogan (for)*  
Laboratory Director

# SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

## C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 53376  
CLIENT: Geraghty & Miller Inc.  
CLIENT JOB NO.: RC01904

DATE RECEIVED: 03/26/91  
DATE REPORTED: 04/03/91

### ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (ug/L) Diesel Range
1	MW-1	160
2	MW-2	ND<50
3	MW-3	ND<50

ug/L - parts per billion (ppb)

Minimum Detection Limit for Diesel in Water: 50ug/L

#### QAQC Summary:

Daily Standard run at 200mg/L: %Diff Diesel = <15  
MS/MSD Average Recovery = 100%: Duplicate RPD = 7%

Richard Srna, Ph.D.

*Cecilia Joaquin (for)*  
Laboratory Director

# SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

DHS #1332

## C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 53376  
CLIENT: Geraghty & Miller Inc.  
CLIENT JOB NO.: RC01904

DATE RECEIVED: 03/26/91  
DATE REPORTED: 04/03/91

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS  
by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (ug/L) Gasoline Range
1	MW-1	73
2	MW-2	ND<50
3	MW-3	ND<50

ug/L - parts per billion (ppb)

Minimum Detection Limit for Gasoline in Water: 50ug/L

### QAQC Summary:

Daily Standard run at 2mg/L: %Diff Gasoline = <15  
MS/MSD Average Recovery = 85%: Duplicate RPD = 0%

Richard Srna, Ph.D.

*Cecilia J. Forzini (for)*  
Laboratory Director

Project Number RC 01904  
 Project Location Oakland  
 Laboratory Superior Analytical  
 Sampler(s)/Affiliation N.M. Sivas

SAMPLE BOTTLE / CONTAINER DESCRIPTION						
				TPH (gasoline)		
				(USEPA Method 8015, modified)		
				TPH (diesel)		
				(USEPA Method 8015, modified)		
				BTXE		
				(USEPA Method 8020)		

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION						TOTAL	
MW-1	W	3/25/91 12:52		✓	✓	✓					4
MW-2	W	11:45		✓	✓	✓					4
MW-3	W	12:12		✓	✓	✓					4

Please initials: (Signature)

Samples Stored in ice. ✓

Appropriate containers. ✓

Samples preserved. ✓

VOA's without headspace. ✓

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sample Code: W = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 12

Relinquished by: <u>(Signature)</u>	Organization: <u>                    </u>	Date: <u>3/26/91</u> Time: <u>1111</u>	Seal Intact? <u>Yes</u> No N/A
Received by: <u>(Signature)</u>	Organization: <u>EXPRESS IT COURIER</u>	Date: <u>3/26/91</u> Time: <u>1247</u>	Seal Intact? <u>Yes</u> No N/A

Special Instructions/Remarks: Mail results to: Paul V. Hehn, Geraghty & Miller, Inc.  
1050 Marina Way South  
Richmond CA 94804

Delivery Method:  In Person  Common Carrier  Lab Courier  Other