

**RESULTS OF QUARTERLY
GROUNDWATER MONITORING
FEBRUARY 1997
FORMER PENSKE TRUCK
LEASING CO. FACILITY
725 JULIE ANN WAY
OAKLAND, CALIFORNIA**

May 1997

Prepared by

Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804
(510) 233-3200

May 28, 1997
Project No. RC0019.010

Mr. Barney Chan
Division of Hazardous Materials
Department of Environmental Health
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502

#559

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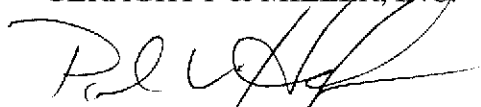
SUBJECT: Results of Quarterly Groundwater Monitoring, February 1997
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California.

Dear Mr. Chan:

The above referenced report is being forwarded to you at the request of Penske Truck Leasing Co. The report details the results of the quarterly groundwater monitoring well sampling for February 1997 at the former Penske Truck Leasing Facility at 725 Julie Ann Way, Oakland. The quarterly sampling has been completed in response to the requirements for groundwater sampling contained in the Alameda County Health Care Services, Department of Environmental Health (ACHCSA) 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, R.G.
Project Geologist/Project Manager

Attachment: Results of Quarterly Groundwater Monitoring, February 1997

cc: Mr. Richard G. Saut
Penske Truck Leasing Co.





May 28, 1997

Via Fax 510-233-3204

Mr. Paul Hehn
Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804

Re: 1Q97 Quarterly Groundwater Monitoring Report
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, CA

Dear Paul,

I have reviewed and approve the above referenced report. Please forward the appropriate number of copies to the required regulatory agencies. Please provide two copies for my file with a copy of your report transmittal letters to the agencies. If you have questions or need assistance please call my office at 610-775-6010.

Sincerely,

A handwritten signature in cursive script that reads "Richard G. Saut".

Richard G. Saut
Environmental Project Manager

RGS/csk
11052897.rgs

May 8, 1997
Project No. RC0019.010

Mr. Richard G. Saut
Environmental Project Manager
Penske Truck Leasing Co., L.P.
Route 10, Green Hills
P.O. Box 7635
Reading, PA 19603-7635

SUBJECT: Results of Quarterly Groundwater Monitoring
February 1997
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California.

Dear Mr. Saut:

This report presents the results of the quarterly groundwater monitoring performed on February 20, 1997, at the former Penske Truck Leasing Co. (Penske) facility referenced above (Figure 1). The scope of work for this project was presented to Penske in a Geraghty & Miller, Inc. (Geraghty & Miller) letter dated January 25, 1996. The scope of work for groundwater monitoring and sampling consists of collecting depth-to-water measurements, total-well-depth measurements, and water samples from selected wells at this former site. The scope of work also includes the preparation of quarterly groundwater sampling and monitoring reports based on the data and groundwater samples collected. This quarterly groundwater sampling and monitoring program is related to the containment zone (CZ) concept remedial approach approved by the Alameda County Health Care Services Agency (ACHCSA) and the California Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) in its letter to Penske dated March 25, 1994.

RECENT REVISIONS TO THE QUARTERLY GROUNDWATER SAMPLING

Telephone conversations and written correspondence took place between Penske, the ACHCSA, and Geraghty & Miller about groundwater sampling and monitoring at this site. The ACHCSA stated in a letter to Penske dated October 23, 1996, that the previous compliance concentration for benzene in groundwater, 21 micrograms per liter ($\mu\text{g/L}$), was too low. The ACHCSA referred to a recent study by the RWQCB at the San Francisco Airport in which an estuary compliance concentration for benzene of 71 $\mu\text{g/L}$ was deemed to be a more appropriate



concentration for groundwater near estuaries similar to the former Penske site. In a letter to Penske dated December 6, 1996, the ACHCSA agreed that the compliance concentration for benzene in groundwater at this site would be increased from the current 21 $\mu\text{g/L}$ to the ACHCSA-recommended 71 $\mu\text{g/L}$. The ACHCSA further agreed that, if the new compliance concentration of 71 $\mu\text{g/L}$ was exceeded in the guard wells (Wells MW-3 or MW-7), the corresponding downgradient compliance wells (Well MW-6 downgradient from Guard Well MW-3, and Well MW-8 downgradient from Guard Well MW-7) would be sampled during the next quarterly sampling event. During the current quarter, Compliance Well MW-8 was sampled at the request of the ACHCSA.

FIELD PROCEDURES

The quarterly groundwater monitoring was performed on February 20, 1997. In accordance with the CZ remedial approach monitoring and sampling plan referenced above, monitoring was completed and groundwater samples were collected from Monitoring Wells MW-1 through MW-5, and MW-7. Compliance Well MW-8 was also monitored and sampled during this quarter as requested by the ACHCSA. The monitoring-well locations are shown in Figure 2.

Prior to sampling, depth-to-water measurements were obtained from all on-site wells. Additionally, the wells were checked for the presence of liquid-phase hydrocarbons. No liquid-phase hydrocarbons with a measurable thickness of greater than 0.01 foot were observed in any of the monitoring wells during this monitoring event. Each well sampled was purged of at least four casing volumes of water. At Penske's request, additional purging was performed to remove dissolved-phase petroleum hydrocarbons from the groundwater. The exact volume of water removed during the extra purging is unknown, but exceeded the minimum of four casing volumes. Prior to sampling each well, all equipment that entered the well was washed in a solution of nonphosphate detergent and water and then triple rinsed in deionized water. Purged water was monitored for pH, temperature, and specific conductance. A summary of the field data is presented in Table 1. Following purging, groundwater samples were collected using a new disposable polyethylene bailer for each well. The purged water was removed by a Penske-contracted vacuum truck for proper disposal.

A trip blank, consisting of a sample vial containing laboratory-grade water, accompanied the sample vials from the laboratory to the site and back to the laboratory, and was also submitted for analysis. The purpose of the trip blank is to assess whether any of the



compounds analyzed for may have been imparted to the samples by air in the vicinity of the sample bottles during shipping, by the sample container, by the preservative, or by other exogenous sources.

Groundwater samples were put into the appropriate USEPA-approved containers, placed on ice, and transported to Sequoia Analytical (Sequoia), in Walnut Creek, California, along with appropriate chain-of-custody documentation. The water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (USEPA Method 8015, modified), for TPH as diesel (USEPA Method 8015, modified), for benzene, toluene, ethylbenzene, and total xylenes (BTEX) (USEPA Method 8020), and for total dissolved solids (TDS) (USEPA Method 160.1).

RESULTS

SHALLOW GROUNDWATER FLOW

A summary of the depth-to-water data is presented in Table 1. Depth to water ranged from 4.68 feet (Monitoring Well MW-5) to 6.36 feet (Monitoring Well MW-3) below the ground surface. A contour map based on the groundwater elevation data collected February 20, 1997, is presented in Figure 2. The historic shallow groundwater flow is toward the west; however, there are local variations in flow directions at the facility, as indicated by the groundwater contours from the data collected during February 1997.

The difference in the elevation of the groundwater surface between Wells MW-2 and MW-1 is 0.08 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.0009 in a southwesterly direction.

GROUNDWATER ANALYTICAL RESULTS

A summary of the groundwater 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 was detected in the groundwater samples from Monitoring Wells MW-1 (2,900 µg/L), MW-4 (64,000 µg/L), MW-7 (15,000 µg/L), and MW-8 (340 µg/L). TPH as diesel was detected in the groundwater samples collected from Monitoring Wells MW-1 (200,000 µg/L), MW-2 (1,000 µg/L), MW-3 (140 µg/L), MW-4 (470,000 µg/L), MW-5 (1,100 µg/L), MW-7 (1,500,000 µg/L), and MW-8 (2,500 µg/L). Benzene was detected in the groundwater samples collected from Monitoring Wells MW-1 (260 µg/L), MW-7 (81



µg/L), and MW-8 (2.1 µg/L). All other BTEX constituent results are presented in Table 2. TPH as gasoline and BTEX were not detected in the trip blank. Analysis of TDS in the groundwater samples detected concentrations ranging from 1,300 milligrams per liter (mg/L) in Monitoring Well MW-5 to 3,800 mg/L in Monitoring Well MW-8 (Table 2).

FIELD PARAMETERS

As in all previous quarterly sampling events at this facility, the specific conductance measurements for the groundwater purged during the sampling continue to be high (Table 1). High concentrations of TDS were detected in the groundwater laboratory samples (Table 2).

COMPLIANCE WITH CONTAINMENT ZONE APPROACH

Benzene was not detected at concentrations exceeding the new compliance concentration of 71 µg/L in the shallow groundwater samples collected from designated CZ-concept Guard Wells MW-3 (Non-detect [ND]) and MW-5 (ND). The benzene concentration in the groundwater sample collected from Guard Well MW-7 (81 µg/L) exceeded the compliance concentration. At the request of the ACHCSA, Compliance Well MW-8 was sampled during this quarterly event. The benzene concentration detected in the groundwater sample collected from Compliance Well MW-8 (2.1 µg/L) was below the compliance concentration for benzene.

During this quarterly groundwater sampling event, the concentrations of TPH as gasoline increased in the groundwater samples from Wells MW-1 (from 65 µg/L to 2,900 µg/L), MW-4 (from 52,000 µg/L to 64,000 µg/L), and MW-7 (from 3,800 µg/L to 15,000 µg/L). The concentrations of TPH as diesel increased in the groundwater samples from Wells MW-1 (from 1,500 µg/L to 200,000 µg/L), MW-3 (from ND to 140 µg/L), MW-4 (from 40,000 µg/L to 470,000 µg/L), MW-5 (from 610 µg/L to 1,100 µg/L), and MW-7 (from 780,000 µg/L to 1,500,000 µg/L). The concentration of benzene increased in the groundwater sample collected from Well MW-1 (from 3.3 µg/L to 260 µg/L).


The concentration of TPH as gasoline decreased in the groundwater samples collected from Well MW-8 (from 400 µg/L to 340 µg/L). The concentrations of TPH as diesel decreased in the groundwater samples collected from Well MW-2 (from 1,800 µg/L to 1,000 µg/L). The concentrations of benzene decreased in the groundwater samples collected from Wells MW-3 (from 0.82 µg/L to ND), MW-4 (from 130 µg/L to ND [<100 µg/L]), and MW-7 (from 130 µg/L to 81 µg/L).




At the request of Penske, additional groundwater purging will be continued during future quarterly events. The additional purging will help remove petroleum hydrocarbons from the groundwater downgradient from the former tank excavation.

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

Sincerely,
GERAGHTY & MILLER, INC.


Paul V. Hehn, R.G.
Project Geologist/Project Manager


Gary W. Keyes
Principal Engineer/Associate
Richmond, California Office Manager



Attachments: References

Table 1	Summary of Field Sampling, Depth-to-Water, and Casing Elevation Data
Table 2	Summary of Groundwater Analytical Results – Monthly and Quarterly Sampling
Figure 1	Site Location Map
Figure 2	Shallow Groundwater Contours - February 1997
Figure 3	Benzene Concentrations - February 1997
Attachment 1	Copies of Certified Laboratory Reports and Chain-of-Custody Documentation



REFERENCES

Alameda County Health Care Services Agency. December 6, 1996. Letter to Penske Truck Leasing Co. on Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA 94621.

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

———. 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.

———. January 25, 1995. Work Plan and Budget Cost Estimate for Groundwater Sampling Coordination, Quarterly Report Preparation, and Purge Water Disposal Assistance, Former Penske Truck Leasing Co. Facility, 725 Julie Ann Way, Oakland, California.

———. January 25, 1996. Work Plan and Budget Cost Estimate for Groundwater Sampling Coordination, Quarterly Report Preparation, and Purge Water Disposal Assistance, Former Penske Truck Leasing Co. Facility, 725 Julie Ann Way, Oakland, California.



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

Well	Date	Depth to	Top of Casing	Top of Water	Measured Depth	Calculated	Actual Purge	Field Measurements			Casing Diameter
		Water (a)	Elevation	Elevation	of Well (a)	Purge Volume (b)	Volume	pH	Temp. (°F)	SC (µS/cm)	
MW-1	2-Oct-90	9.76	5.42	-4.34	37.28	58.56	47	6.71	87.5	5,280	4
	28-Feb-91	8.54		-3.12	33.58	65.00	70	6.30	66.0	9,700	
	25-Mar-91	7.35		-1.93	33.50	71.00	75	6.50	64.0	7,200	
	1-May-91	7.91		-2.49	33.70	67.00	51	6.20	65.0	3,500	
	5-Aug-91	8.63		-3.21	NM	51.00	68	NM	63.6	7,690	
	23-Oct-91	9.00		-3.58	33.77	67.00	67	9.40	64.2	7,470	
	6-Jan-92	8.52		-3.10	33.87	65.00	69	9.40	63.2	6,640	
	20-Jul-92	7.94		-2.52	33.95	65.02	66	7.20	65.7	6,410	
	23-Oct-92	8.62		-3.20	33.57	64.80	60	7.50	69.8	1,930	
	4-Feb-93	6.55	5.43 (c)	-1.12	33.84	70.96	71	8.02	65.0	9,520	
	8-Apr-93	6.37		-0.94	33.80	71.32	65	6.60	66.7	>2,000	
	6-Aug-93	7.39		-1.96	33.88	68.67	69	7.22	68.1	5,890	
	28-Oct-93	7.85		-2.42	33.80	67.48	68	7.00	68.3	5,910	
	1-Feb-94	7.25		-1.82	33.99	69.52	70	7.63	63.2	7,610	
	12-Sep-94	6.75		-1.32	33.95	70.72	70	6.90	75.8	7,950	
	23-Nov-94	6.13		-0.70	33.93	72.28	73	6.10	66.2	>2,000	
	21-Feb-95	6.00		-0.57	34.00	55.44	56	7.36	70	890	
	23-May-95	6.04		-0.61	34.00	54.52	56	7.11	66.2	5,920	
	16-Aug-95	6.03		-0.60	34.00	55.94	56	7.27	69.3	5,510	
	21-Nov-95	6.90		-1.47	34.00	52.85	54	7.19	67.8	5,720	
13-Feb-96	5.18		0.25	33.87	74.59	>75	7	71.2	6,070		
13-May-96	6.10		-0.67	NM	72.20 (f)	>73	6.5	76.4	14,370		
28-Aug-96	6.17		-0.74	33.85	71.96	>72	7	85.5	4,820		
21-Nov-96	6.09		-0.66	33.92	72.43	>73	6.5	77.8	7,890		
20-Feb-97	5.41		0.02	33.94	74.17	>75	6.0	66.3	1,900		



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

Well	Date	Depth to	Top of Casing	Top of Water	Measured Depth	Calculated	Actual Purge	Field Measurements			Casing Diameter
		Water (a)	Elevation	Elevation	of Well (a)	Purge Volume (b)	Volume	pH	Temp. (°F)	SC (µS/cm)	
		(feet)	(feet)	(feet)	(feet)	(gallons)	(gallons)				(inches)
MW-2	2-Oct-90	10.38	6.21	-4.17	32.97	48.07	47	6.92	86.4	5,460	4
	28-Feb-91	9.19		-2.98	29.39	53.00	55	6.60	64.0	9,000	
	25-Mar-91	7.95		-1.74	29.39	57.00	70	6.60	63.0	6,400	
	1-May-91	8.58		-2.37	29.60	55.00	50	6.20	64.0	3,000	
	5-Aug-91	9.33		-3.12	NM	40.00	54	NM	65.1	5,680	
	23-Oct-91	9.57		-3.36	29.35	52.00	53	7.60	65.4	7,970	
	6-Jan-92	9.08		-2.87	29.50	53.00	53	9.18	62.8	6,990	
	20-Jul-92	8.60		-2.39	29.45	54.21	55	6.50	65.2	6,690	
	23-Oct-92	9.33		-3.12	29.18	51.60	55	7.20	69.8	1,900	
	4-Feb-93	7.17	6.20 (c)	-0.97	29.37	57.72	55	8.25	64.0	10,310	
	8-Apr-93	6.95		-0.75	29.32	58.16	60	6.90	66.7	>2,000	
	6-Aug-93	8.05		-1.85	29.33	55.33	66.5	7.26	66.4	6,250	
	28-Oct-93	8.50		-2.30	29.43	54.40	55	7.08	71.2	6,780	
	1-Feb-94	7.87		-1.67	29.54	56.32	57	8.35	62.4	8,250	
	12-Sep-94	7.42		-1.22	29.45	57.24	66	(e)	69.9	8,130	
	22-Nov-94	6.75		-0.55	29.50	59.15	60	6.8	67.6	>2,000	
	21-Feb-95	6.20		0.00	30.00	47.12	48	6.97	64	1,050	
	23-May-95	6.10		0.10	30.00	46.60	48	7.18	70.3	7,710	
	16-Aug-95	6.69		-0.49	30.00	46.62	46	7.42	65	6,790	
	21-Nov-95	7.62		-1.42	30.00	43.64	45	7.30	67.6	7,250	
	13-Feb-96	5.81		0.39	29.47	61.51	>62	7	71.8	2,890	
	13-May-96	6.40		-0.20	NM	59.98 (f)	>60	5.5	74.4	860	
	28-Aug-96	7.11		-0.91	29.42	58.00	>58	6	83.5	590	
	21-Nov-96	6.41		-0.21	29.43	59.85	>60	6.5	76.3	4,160	
	20-Feb-97	6.26		-0.06	29.54	60.52	>61	6.5	65.2	1,940	



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

Well	Date	Depth to	Top of Casing	Top of Water	Measured Depth	Calculated	Actual Purge	Field Measurements			Casing
		Water (a)	Elevation	Elevation	of Well (a)	Purge Volume (b)	Volume	pH	Temp.	SC	Diameter
		(feet)	(feet)	(feet)	(feet)	(gallons)	(gallons)		(°F)	(µS/cm)	(inches)
MW-3	2-Oct-90	10.38	6.10	-4.28	37.08	56.82	54	6.89	88.4	639	4
	28-Feb-91	9.45		-3.35	31.61	58.00	60	6.10	66.0	1,020	
	25-Mar-91	7.98		-1.88	31.60	70.00	75	6.40	65.0	8,200	
	1-May-91	8.58		-2.48	33.70	65.00	50	6.40	67.0	4,100	
	5-Aug-91	9.26		-3.16	NM	50.00	67	NM	64.1	6,190	
	23-Oct-91	9.60		-3.50	33.48	66.00	66	7.30	67.3	8,430	
	6-Jan-92	9.08		-2.98	33.66	64.00	64	9.98	61.7	7,010	
	20-Jul-92	8.59		-2.49	33.76	65.44	66	6.80	66.0	7,540	
	23-Oct-92	9.30		-3.20	33.47	63.40	65	7.50	71.6	1,800	
	4-Feb-93	7.19	6.10 (c)	-1.09	33.65	68.79	65	8.29	64.0	10,290	
	8-Apr-93	6.98		-0.88	33.55	69.08	72	6.90	68.2	>2,000	
	6-Aug-93	8.01		-1.91	33.55	66.40	56 (d)	7.43	67.3	6,490	
	28-Oct-93	8.45		-2.35	33.60	65.40	66	7.02	72.0	6,590	
	1-Feb-94	8.03		-1.93	33.74	66.84	67	8.32	63.3	8,400	
	12-Sep-94	7.39		-1.29	33.70	68.40	70	7.73	68.7	8,030	
	22-Nov-94	6.76		-0.66	33.75	70.17	70	6.60	65.8	>2,000	
	21-Feb-95	6.36		-0.26	33.50	53.74	54	6.99	85.4	880	
	23-May-95	6.48		-0.38	33.50	52.69	54	7.25	68.7	6,060	
	16-Aug-95	6.63		-0.53	33.50	53.74	54	7.53	66.1	5,390	
	21-Nov-95	7.51		-1.41	33.50	50.68	52	7.34	67.4	5,730	
	13-Feb-96	5.91		0.19	33.69	72.24	>73	7	71.5	6,790	
	13-May-96	6.36		-0.26	NM	71.06 (f)	>72	6.5	76.7	14,360	
	28-Aug-96	7.15		-1.05	33.52	68.56	>69	8	79.2	2,930	
	21-Nov-96	6.64		-0.54	33.54	69.94	>70	6.5	77.0	7,500	
	20-Feb-97	6.36		-0.26	33.67	71.00	>72	6.5	68.7	4,180	



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

Well	Date	Depth to	Top of Casing	Top of Water	Measured Depth	Calculated	Actual Purge	Field Measurements			Casing Diameter
		Water (a)	Elevation	Elevation	of Well (a)	Purge Volume (b)	Volume	pH	Temp. (°F)	SC (µS/cm)	
MW-4	4-Feb-93	6.68	5.18 (c)	-1.50	32.70	64.38	60 (d)	NM	63.5	14,100	4
	8-Apr-93	6.21		-1.03	33.04	69.76	70	6.80	69.1	>2,000	
	6-Aug-93	7.20		-2.02	32.92	66.87	60 (d)	7.44	68.9	13,900	
	28-Oct-93	7.64		-2.46	32.98	65.88	66	6.79	72.1	11,940	
	1-Feb-94	7.26		-2.08	33.31	67.72	68	8.65	63.6	18,110	
	12-Sep-94	6.55		-1.37	33.41	69.84	60 (d)	6.03	77.5	16,710	
	23-Nov-94	6.08		-0.90	33.35	70.90	55 (d)	5.60	66.7	>2,000	
	21-Feb-95	5.36		-0.18	33.50	55.71	48 (d)	6.83	80.2	880	
	23-May-95	5.05		0.13	33.50	55.48	59	6.71	66.5	12,090	
	16-Aug-95	5.63		-0.45	33.50	55.74	33 (d)	7.34	69.8	8,670	
	21-Nov-95	6.63		-1.45	33.50	52.39	34 (d)	7.03	68.2	10,380	
	13-Feb-96	5.14		0.04	33.25	73.08	>74	7	75.3	6,090	
	13-May-96	5.75		-0.57	NM	71.50 (f)	>72	7	76.1	>20,000	
	28-Aug-96	6.04		-0.86	33.20	70.61	>71	7.4	83.9	2,600	
	21-Nov-96	7.90		-2.72	33.17	65.70	>66	6.5	75.9	8,940	
20-Feb-97	5.29		-0.11	33.28	72.77	>73	6.5	66.1	2,110		
MW-5	4-Feb-93	8.94	4.71 (c)	-4.23	31.40	61.65	40 (d)	8.43	63.2	16,870	4
	8-Apr-93	5.43		-0.72	31.36	67.42	68	7.20	68.0	>2,000	
	6-Aug-93	6.19		-1.48	31.30	65.29	68	7.47	63.6	5,180	
	28-Oct-93	6.86		-2.15	31.43	62.72	48 (d)	7.12	70.6	4,980	
	1-Feb-94	6.48		-1.77	31.43	64.84	49 (d)	(e)	63.1	6,120	
	12-Sep-94	5.89		-1.18	31.43	66.40	39 (d)	(e)	69.4	5,020	
	22-Nov-94	5.66		-0.95	31.44	67.02	58 (d)	6.80	68.4	>2,000	
	21-Feb-95	4.90		-0.19	31.00	51.68	45 (d)	7.30	82.5	880	
	23-May-95	4.86		-0.15	31.00	50.97	52	7.03	66.5	4,320	
	16-Aug-95	4.97		-0.26	31.00	52.06	36 (d)	7.48	67.5	3,900	
	21-Nov-95	5.82		-1.11	31.00	49.10	32 (d)	7.26	67.0	4,110	
	13-Feb-96	4.86		-0.15	31.41	69.03	>69	7	68.3	5,950	
	13-May-96	5.06		-0.35	NM	68.51 (f)	>69	6.5	71.9	9,830	
	28-Aug-96	5.29		-0.58	31.34	67.73	>68	7.9	79.6	2,590	
	21-Nov-96	5.44		-0.73	31.33	67.31	>67	6.5	76.0	7,260	
20-Feb-97	4.68		0.03	31.46	69.62	>70	6.5	60.7	1,990		



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

Well	Date	Depth to Top of Casing		Top of Water Measured Depth		Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements			Casing Diameter (inches)
		Water (a) (feet)	Elevation (feet)	Elevation (feet)	of Well (a) (feet)			pH	Temp. (°F)	SC (µS/cm)	
MW-6	12-Sep-94	6.56	5.37	-1.19	24.85	47.55	41 (d)	(e)	71.2	12,970	4
	22-Nov-94	6.04		-0.67	24.88	48.98	50	6.70	66.4	>2,000	
	21-Feb-95	NS		NS	NS	NS	NS	NS	NS	NS	
	23-May-95	5.32		0.05	24.70	NS	NS	NS	NS	NS	
	16-Aug-95	5.97		-0.60	24.70	NS	NS	NS	NS	NS	
	21-Nov-95	6.78		-1.41	24.70	NS	NS	NS	NS	NS	
	13-Feb-96	5.14		0.23	24.71	NS	NS	NS	NS	NS	
	13-May-96	5.64		-0.27	NM	NS	NS	NS	NS	NS	
	28-Aug-96	6.15		-0.78	24.67	NS	NS	NS	NS	NS	
	21-Nov-96	5.71		-0.34	24.65	NS	NS	NS	NS	NS	
	20-Feb-97	5.38		-0.01	24.79	NS	NS	NS	NS	NS	
MW-7	12-Sep-94	6.16	5.38	-0.78	28.51	58.08	60	6.65	73.5	7,920	4
	23-Nov-94	5.61		-0.23	28.46	59.40	60	6.00	64.6	>2,000	
	21-Feb-95	5.25		0.13	28.30	45.64	46	7.46	69.5	910	
	23-May-95	5.10		0.28	28.30	45.24	46	7.21	65.0	5,740	
	16-Aug-95	5.42		-0.04	28.30	45.76	46	7.36	66.8	5,560	
	21-Nov-95	6.28		-0.90	28.30	42.99	44	7.29	65.9	5,650	
	13-Feb-96	4.64		0.74	28.39	61.75	>62	7	70.1	7,050	
	13-May-96	5.36		0.02	NM	59.88 (f)	>60	6.5	76.6	15,030	
	28-Aug-96	6.20		-0.82	28.30	57.46	>58	7.4	76.4	3,980	
	21-Nov-96	6.12		-0.74	28.30	57.66	>58	6.5	75.2	8,400	
	20-Feb-97	5.70		-0.32	28.46	59.17	>60	6.5	63.9	4,410	



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

Well	Date	Depth to Top of Casing		Top of Water Elevation (feet)	Measured Depth of Well (a) (feet)	Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements			Casing Diameter (inches)
		Water (a) (feet)	Elevation (feet)					Temp. (°F)	SC (µS/cm)	pH	
MW-8	12-Sep-94	6.46	5.44	-1.02	25.15	48.56	55	(e)	(e)	11,400	4
	23-Nov-94	6.01		-0.57	25.66	78.60	75	5.60	61.5	>2,000	
	21-Feb-95	NS		NS	NS	NS	NS	NS	NS	NS	
	23-May-95	5.53		-0.09	25.40	NS	NS	NS	NS	NS	
	16-Aug-95	5.68		-0.24	25.40	NS	NS	NS	NS	NS	
	21-Nov-95	6.37		-0.93	25.40	NS	NS	NS	NS	NS	
	13-Feb-96	5.36		0.08	25.54	NS	NS	NS	NS	NS	
	13-May-96	5.62		-0.18	NM	NS	NS	NS	NS	NS	
	28-Aug-96	6.17		-0.73	25.52	NS	NS	NS	NS	NS	
	21-Nov-96	5.74		-0.30	25.45	51.24	>52	6.5	73.6	9,300	
	20-Feb-97	5.10		0.34	25.54	53.14	>54	6.5	61.5	4,950	

- (a) Measured from top of PVC casing.
 (b) Based on four casing volumes.
 (c) All well elevations resurveyed to site benchmark on February 10, 1993.
 (d) Well went dry during purging.
 (e) No reading - instrument malfunction.
 (f) Purge volume estimated using well depth-to-bottom measurements from previous quarter.
- SC Specific Conductance
 (µS/cm) Microsiemens per centimeter
 NM Not measured
 NS Well not sampled or monitored during this quarterly event.

All elevations are measured relative to a site benchmark (elevation 6.62') based on the City of Oakland datum which is 3 feet higher than mean sea level.



Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	TPH	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/L)					
MW-1	2-Oct-90	170	2,900	20	18	1.9	5.7	--
	28-Feb-91	260	550	43	1	7	1	--
	25-Mar-91	73	160	10	ND(<0.3)	0.5	ND(<0.3)	--
	1-May-91	ND(<50)	(d)	2.2	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	5-Aug-91	310	330	22	5.5	9.5	23	--
	23-Oct-91	440	1,800	23	21	6.2	35	--
	6-Jan-92	430	1,600	56	8.4	18	22	--
	20-Jul-92	ND(<50)	25,000	0.4	0.8	1	2.1	--
	23-Oct-92	280	6,500	9.3	13	8.2	15	--
	4-Feb-93	68 (f)	320	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	8-Apr-93	180	7,800	0.5	2.1	0.8	13	--
	6-Aug-93	740	17,000	75	100	25	130	3,500
	28-Oct-93	140	7,600	4.7	1.9	3.2	5.4	3,500
	1-Feb-94	430	10,000	8.2	1.1	3.5	4.8	3,800
	12-Sep-94	230	22,000	0.7	1.7	2.0	3.7	4,000
	23-Nov-94	ND(<50)	1,700	ND(<0.5)	ND(<0.5)	ND(<0.5)	0.6	3,600
	21-Feb-95	ND(<50)	4,200	ND(<0.5)	ND(<0.5)	0.8	0.6	4,200
	23-May-95	ND(<50)	300	ND(<0.5)	ND(<0.5)	2.1	2.0	3,800
	16-Aug-95	ND(<50)	740	ND(<0.5)	ND(<0.5)	1.4	1.4	3,800
	21-Nov-95	ND(<50)	410	ND(<0.5)	ND(<0.5)	0.7	0.8	4,100
	13-Feb-96	ND(<50)	400	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,600
	13-May-96	310 (k)	12,000	13	14	2.4	11	3,500
	28-Aug-96	11,000 (k)	56,000	110	ND(<50)	ND(<50)	ND(<50)	3,300
	21-Nov-96	65 (k)	1,500	3.3	0.51	0.59	0.84	3,400
	20-Feb-97	2,900 (k)	200,000	260	61	42	96	1,400



Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

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)	Total Dissolved Solids (c) (mg/L)
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)	--
	1-May-91	ND(<50)	(d)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	5-Aug-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	23-Oct-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	6-Jan-92	11,000	1200 (e)	ND(<0.3)	83	82	940	--
	20-Jul-92	73	120	1.7	3.3	1.1	9.6	--
	23-Oct-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	0.5	--
	4-Feb-93	ND(<50)	330 (e)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	8-Apr-93	150	74 (h)	1	2.1	1	13.0	--
	6-Aug-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	990
	28-Oct-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	1,500
	1-Feb-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,000
	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,100
	22-Nov-94	ND(<50)	51 (h)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,400
	21-Feb-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,700
	23-May-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,100
	16-Aug-95	ND(<50)	190	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,400
	21-Nov-95	ND(<50)	180	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,800
	13-Feb-96	ND(<50)	1,500	ND(<0.5)	ND(<0.5)	ND(<0.5)	8.7	1,100
	13-May-96	ND(<50)	25,000 (l)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	150
	28-Aug-96	ND(<50)	680	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	410
	21-Nov-96	ND(<50)	1,800 (n)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	720
	20-Feb-97	ND(<50)	1,000 (m)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	1,400



Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

Well	Date	TPH	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/L)					
MW-3	2-Oct-90	ND(<50)	90	28	3.1	0.6	1.5	--
	28-Feb-91	ND(<50)	ND(<50)	6	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)	--
	1-May-91	ND(<50)	(d)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	5-Aug-91	ND(<50)	ND(<50)	1.7	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	23-Oct-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	6-Jan-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	20-Jul-92	66	ND(<50)	1.1	2.2	0.7	6.4	--
	23-Oct-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	4-Feb-93	270	ND(<100)(g)	9.8	4.6	4.5	8.7	--
	8-Apr-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	--
	6-Aug-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	3,400
	28-Oct-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	2,700
	1-Feb-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,400
	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,500
	22-Nov-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,400
	21-Feb-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,200
	23-May-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,100
	16-Aug-95	ND(<50)	240	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,100
	21-Nov-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,200
	13-Feb-96	ND(<50)	72	16	ND(<0.5)	ND(<0.5)	0.73	3,400
	13-May-96	ND(<50)	250 (m)	1.7	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,700
	28-Aug-96	ND(<50)	1,200	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,200
	21-Nov-96	ND(<50)	ND(<50)	0.82	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,500
	20-Feb-97	ND(<50)	140 (n)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	2,900



Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

Well	Date	TPH	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/L)					
MW-4	4-Feb-93	58 (f)	450	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	8-Apr-93	74	220	19	0.4	ND(<0.3)	ND(<0.9)	--
	6-Aug-93	95	ND(<50)	68	0.9	1.1	ND(<0.9)	5,800
	28-Oct-93	160	600	46	0.7	1.6	1.2	5,200
	1-Feb-94	320	160	290	0.6	6.7	3.2	6,200
	12-Sep-94	390	95	120	3.9	14.0	14.0	6,000
	23-Nov-94	100	1,800	9.9	0.7	1.6	3.8	5,600
	21-Feb-95	91	680	23	ND(<0.5)	1.0	ND(<0.5)	7,100
	23-May-95	ND(<50)	270	5.3	ND(<0.5)	ND(<0.5)	ND(<0.5)	8,300
	16-Aug-95	ND(<50)	610	4.1	ND(<0.5)	ND(<0.5)	ND(<0.5)	7,100
	21-Nov-95	ND(<50)	280	1.0	ND(<0.5)	ND(<0.5)	ND(<0.5)	9,800
	13-Feb-96	980 (i)	7,500	570	ND(<0.5)	9.2	13	3,600
	13-May-96	150 (k)	1,200	45	ND(<1.0)	ND(<1.0)	1.5	7,900
	28-Aug-96	70,000 (k)	1,300,000	340	ND(<200)	ND(<200)	ND(<200)	1,800
	21-Nov-96	52,000 (i)	40,000	130	ND(<100)	ND(<100)	ND(<100)	5,400
	20-Feb-97	64,000 (i)	470,000	ND(<100)	ND(<100)	ND(<100)	ND(<100)	1,500



Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

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)	Total Dissolved Solids (c) (mg/L)
MW-5	4-Feb-93	ND(<50)	240	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	--
	8-Apr-93	ND(<50)	480	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	--
	6-Aug-93	ND(<50)	120	0.8	ND(<0.3)	ND(<0.3)	ND(<0.9)	2,800
	28-Oct-93	ND(<50)	370	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	2,400
	1-Feb-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,500
	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,600
	22-Nov-94	ND(<50)	160	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,600
	21-Feb-95	ND(<50)	170	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,800
	23-May-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,100
	16-Aug-95	ND(<50)	590	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,800
	21-Nov-95	ND(<50)	500	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,800
	13-Feb-96	ND(<50)	830	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,000
	13-May-96	ND(<50)	870	0.59	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,700
	28-Aug-96	ND(<50)	1,000	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,000
	21-Nov-96	ND(<50)	610	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,700
20-Feb-97	ND(<50)	1,100 (m)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	1,300	
MW-6	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	560
	22-Nov-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	1.5	1,800
	21-Feb-95	NS	NS	NS	NS	NS	NS	NS
	23-May-95	NS	NS	NS	NS	NS	NS	NS
	16-Aug-95	NS	NS	NS	NS	NS	NS	NS
	21-Nov-95	NS	NS	NS	NS	NS	NS	NS
	13-Feb-96	NS	NS	NS	NS	NS	NS	NS
	13-May-96	NS	NS	NS	NS	NS	NS	NS
	28-Aug-96	NS	NS	NS	NS	NS	NS	NS
	21-Nov-96	NS	NS	NS	NS	NS	NS	NS
20-Feb-97	NS	NS	NS	NS	NS	NS	NS	



Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

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)	Total Dissolved Solids (c) (mg/L)
MW-7	12-Sep-94	160	620	2.7	1.3	ND(<0.5)	2.1	1,100
	23-Nov-94	ND(<50)	150	2.4	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,600
	21-Feb-95	93	1,400	0.6	0.8	0.8	3.3	4,000
	23-May-95	ND(<50)	360	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,400
	16-Aug-95	53	1,100	0.5	ND(<0.5)	ND(<0.5)	0.5	4,000
	21-Nov-95	87	9,100	1.4	ND(<0.5)	1.0	1.5	4,200
	13-Feb-96	1,800,000 (j)	5,000,000	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,900
	13-May-96	ND(<50,000)	2,300,000	ND(<500)	ND(<500)	ND(<500)	500 (i)	3,500
	28-Aug-96	59,000 (k)	640,000	ND(<200)	ND(<200)	ND(<200)	600	3,100
	21-Nov-96	3,800 (k)	780,000	130	93	33	64	3,400
	20-Feb-97	15,000 (i)	1,500,000	81	51	ND(<50)	ND(<50)	3,300
MW-8	12-Sep-94	170	850	2.7	0.5	ND(<0.5)	2.0	5,500
	23-Nov-94	ND(<50)	570	1.5	ND(<0.5)	ND(<0.5)	ND(<0.5)	6,300
	21-Feb-95	NS	NS	NS	NS	NS	NS	NS
	23-May-95	NS	NS	NS	NS	NS	NS	NS
	16-Aug-95	NS	NS	NS	NS	NS	NS	NS
	21-Nov-95	NS	NS	NS	NS	NS	NS	NS
	13-Feb-96	NS	NS	NS	NS	NS	NS	NS
	13-May-96	NS	NS	NS	NS	NS	NS	NS
	28-Aug-96	NS	NS	NS	NS	NS	NS	NS
	21-Nov-96	400 (k)	2,200	4.6	37	4.6	68	5,100
20-Feb-97	340 (k)	2,500	2.1	53	7.1	94	3,800	
Trip Blank	20-Feb-97	ND(<50)	--	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	--

Notes appear on the following page.

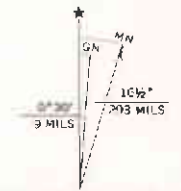
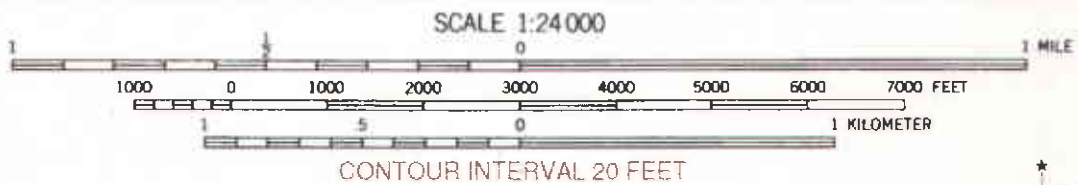
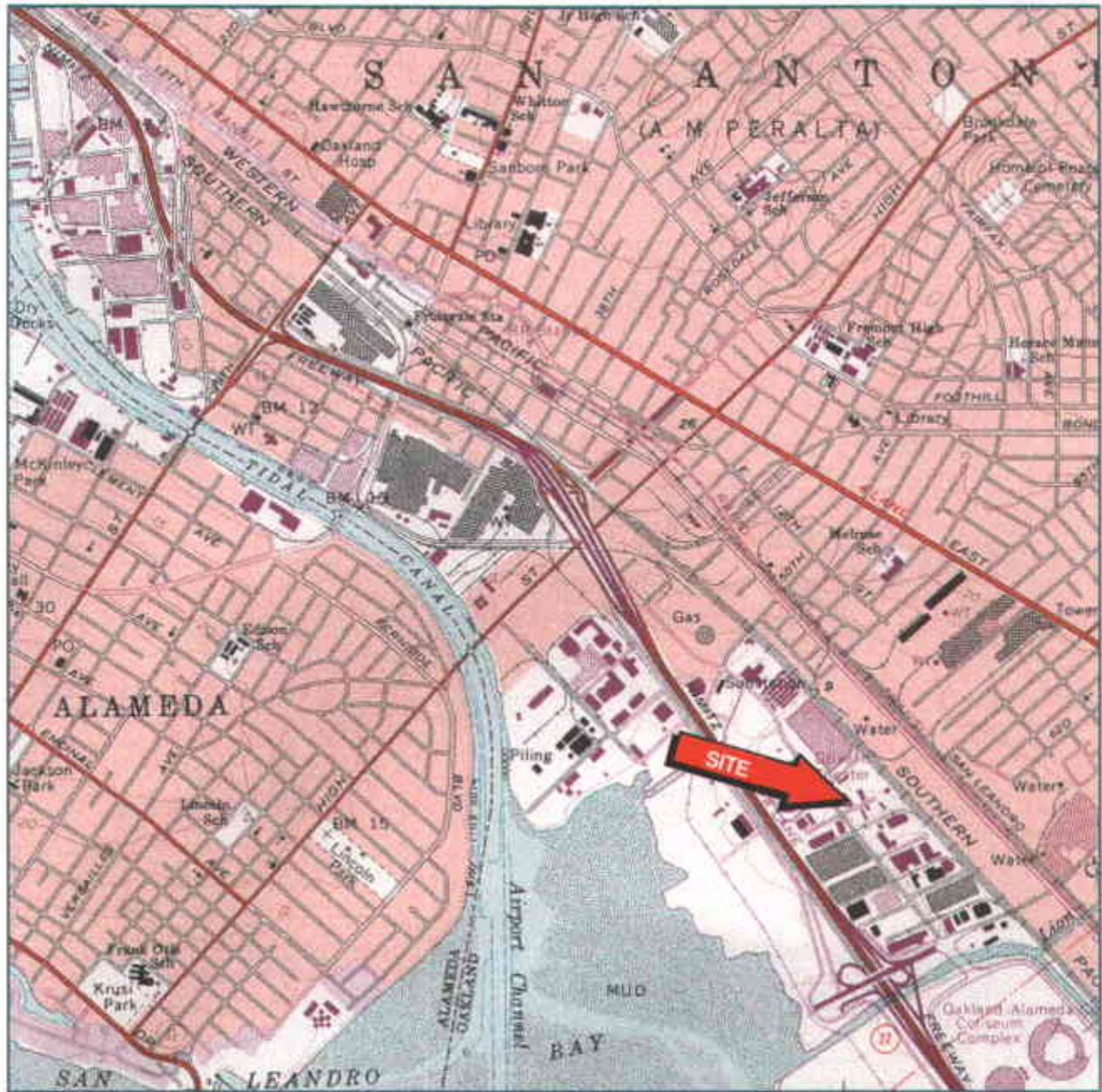


Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

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)	Total Dissolved Solids (c) (mg/L)
(a)	Analyzed by USEPA Method 8015, modified.							
(b)	Analyzed by USEPA Method 8020.							
(c)	Analyzed by USEPA Method 160.1.							
(d)	No results - sample for TPH as diesel not collected.							
(e)	Diesel range concentration reported. A nonstandard diesel pattern was observed in the chromatogram.							
(f)	Does not match typical gasoline pattern. Pattern of peaks observed in the chromatograms is indicative of hydrocarbons heavier than gasoline.							
(g)	Detection limit increased due to insufficient sample amount.							
(h)	Diesel range concentration reported. The chromatogram shows only a single peak in the diesel range.							
(i)	Laboratory reports that chromatogram indicates unidentified carbons >C8.							
(j)	Laboratory reports that chromatogram indicates unidentified carbons >C9.							
(k)	Laboratory reports that chromatogram indicates gasoline and unidentified hydrocarbons >C8.							
(l)	Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C16.							
(m)	Laboratory reports that chromatogram indicates diesel and discrete peaks.							
(n)	Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C20.							
()	Reported detection limit							
--	Not analyzed							
ND	Not detected							
µg/L	Micrograms per liter							
mg/L	Milligrams per liter							
NS	Well not sampled or monitored during this quarterly event.							

Analysis by Sequoia Analytical, Walnut Creek, California.





Reference: U.S.G.S. 7-minute Quadrangle, Oakland East, California, revised, Photorevised 1980.

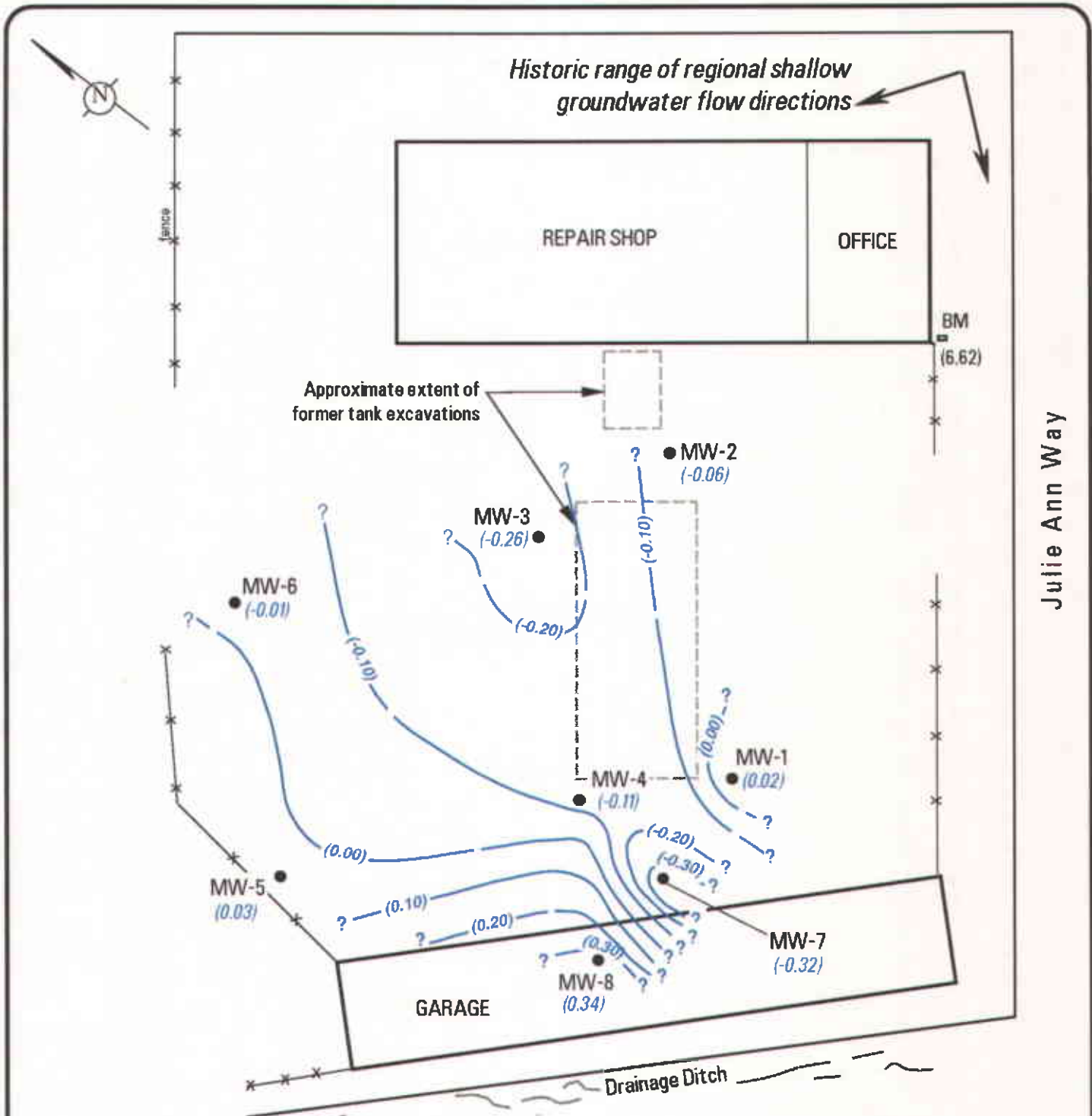
GERAGHTY & MILLER, INC.
Environmental Services

A Heidemij Company

Project No. RC0019.000

SITE LOCATION MAP
Former Penske Truck Leasing Co. Facility
725 Julie Ann Way
Oakland, California

FIGURE
1



Julie Ann Way

EXPLANATION

- MW-1 ● Approximate location of existing groundwater monitor wells.
- BM Survey Bench Mark (based on City of Oakland datum which is 3 feet lower than Mean Sea Level).

(0.34) Groundwater elevation (feet) relative to benchmark, measured February 20, 1997.

— (-0.30) — ? Groundwater elevation contour (feet); dashed where inferred (contour interval equals 0.10 feet) queried where unknown.



Project No. RC0019.000

**SHALLOW GROUNDWATER CONTOURS
February 1997**

Former Penske Truck Leasing Co.
725 Julie Ann Way, Oakland, California

FIGURE
2



Historic range of regional shallow groundwater flow directions.



BM (6.62)

Approximate extent of former tank excavations



MW-2



MW-3



MW-6



fence

MW-4



MW-1



MW-5



MW-7

MW-8



GARAGE

Drainage Ditch

EXPLANATION

MW-1 ● Approximate location of existing groundwater monitor wells.

■ BM Survey Bench Mark (based on City of Oakland datum which is 3 feet lower than Mean Sea Level).

ND Not Detected-below laboratory detection limits listed in Table 2.



Benzene concentrations (in $\mu\text{g}/\text{L}$) from groundwater samples collected February 20, 1997.



Well not sampled or monitored during this quarterly event.



Scale feet



A Heidemij Company

Project No. RC0019.010

**BENZENE CONCENTRATIONS
February 1997**

Former Penske Truck Leasing Co.
725 Julie Ann Way, Oakland, California

FIGURE

3

Julie Ann Way

ATTACHMENT 1

**COPIES OF CERTIFIED ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Heraghty & Miller, Inc. Client Project ID: RC0019.010 Sampled: Feb 20, 1997
 1050 Marina Way South Sample Matrix: Water Received: Feb 21, 1997
 Richmond, CA 94804 Analysis Method: EPA 5030/8015 Mod./8020 Reported: Mar 6, 1997
 Attention: Teresa Payne First Sample #: 702-1351

QC Batch Number: GC022797 GC022797 GC022797 GC022797 GC022797 GC022797
 802002A 802002A 802002A 802002A 802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 702-1351 MW-1	Sample I.D. 702-1352 MW-2	Sample I.D. 702-1353 MW-3	Sample I.D. 702-1354 MW-4	Sample I.D. 702-1355 MW-5	Sample I.D. 702-1356 MW-7
Purgeable Hydrocarbons	50	2,900	N.D.	N.D.	64,000	N.D.	15,000
Benzene	0.50	260	N.D.	N.D.	N.D.	N.D.	81
Toluene	0.50	61	N.D.	N.D.	N.D.	N.D.	51
Ethyl Benzene	0.50	42	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	96	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		Gasoline & Unidentified Hydrocarbons >C8	--	--	Unidentified Hydrocarbons >C8	--	Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	50	1.0	1.0	200	1.0	100
Date Analyzed:	2/27/97	2/27/97	2/27/97	2/27/97	2/27/97	2/27/97
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	87	84	84	85	86	89

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
 Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
 Client Services Representative



Sequoia Analytical

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Eraghty & Miller, Inc.
150 Marina Way South
Richmond, CA 94804
Attention: Teresa Payne

Client Project ID: RC0019.010
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 702-1357

Sampled: Feb 20, 1997
Received: Feb 21, 1997
Reported: Mar 6, 1997

QC Batch Number: GC022797 GC022797

802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 702-1357 MW-8	Sample I.D. 702-1358 TB-LB
Purgeable Hydrocarbons	50	340	N.D.
Benzene	0.50	2.1	N.D.
Toluene	0.50	53	N.D.
Ethyl Benzene	0.50	7.1	N.D.
Total Xylenes	0.50	94	N.D.
Chromatogram Pattern:		Gasoline & Unidentified Hydrocarbons >C8	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	2/27/97	2/27/97
Instrument Identification:	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	90	87

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Client Services Representative



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819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

Braghty & Miller, Inc.	Client Project ID: RC0019.010	Sampled: Feb 20, 1997
1050 Marina Way South	Sample Matrix: Water	Received: Feb 21, 1997
Richmond, CA 94804	Analysis Method: EPA 3510/8015 Mod.	Reported: Mar 6, 1997
Attention: Teresa Payne	First Sample #: 702-1351	

QC Batch Number:	SP022797	SP022797	SP022797	SP022797	SP022797	SP022797
	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 702-1351 MW-1	Sample I.D. 702-1352 MW-2	Sample I.D. 702-1353 MW-3	Sample I.D. 702-1354 MW-4	Sample I.D. 702-1355 MW-5	Sample I.D. 702-1356 MW-7
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Extractable Hydrocarbons	50	200,000	1,000	140	470,000	1,100	1,500,000
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Chromatogram Pattern:	Diesel	Diesel & Unidentified Hydrocarbons > C20	Diesel & Unidentified Hydrocarbons > C20	Diesel	Diesel & Unidentified Hydrocarbons > C20	Diesel
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Quality Control Data

Report Limit Multiplication Factor:	100	1.0	1.0	200	1.0	200
Date Extracted:	2/27/97	2/27/97	2/27/97	2/27/97	2/27/97	2/27/97
Date Analyzed:	3/3/97	3/3/97	3/3/97	3/3/97	3/3/97	3/3/97
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3B	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

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FAX (916) 921-0100

Geraghty & Miller, Inc.
50 Marina Way South
Richmond, CA 94804
Attention: Teresa Payne

Client Project ID: RC0019.010
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 702-1357

Sampled: Feb 20, 1997
Received: Feb 21, 1997
Reported: Mar 6, 1997

Batch Number: SP022797

8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 702-1357 MW-8
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Extractable Hydrocarbons	50	2,500
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Chromatogram Pattern: Diesel

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	2/27/97
Date Analyzed:	3/3/97
Instrument Identification:	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Client Services Representative



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FAX (916) 921-0100

Geraghty & Miller, Inc.
150 Marina Way South
Richmond, CA 94804
Attention: Teresa Payne

Client Project ID: RC0019.010
Sample Descript: Water
Analysis for: Total Dissolved Solids
First Sample #: 702-1351

Sampled: Feb 20, 1997
Received: Feb 21, 1997
Analyzed: Feb 25, 1997
Reported: Mar 6, 1997

LABORATORY ANALYSIS FOR: Total Dissolved Solids

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
702-1351	MW-1	1.0	1,400	IN022597160100B	Manual
702-1352	MW-2	1.0	1,400	IN022597160100B	Manual
702-1353	MW-3	1.0	2,900	IN022597160100B	Manual
702-1354	MW-4	1.0	1,500	IN022597160100B	Manual
702-1355	MW-5	1.0	1,300	IN022597160100B	Manual
702-1356	MW-7	1.0	3,300	IN022597160100B	Manual
702-1357	MW-8	1.0	3,800	IN022597160100B	Manual

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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Sequoia Analytical

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FAX (916) 921-0100

Heraghty & Miller, Inc.
4050 Marina Way South
Richmond, CA 94804
Attention: Teresa Payne

Client Project ID: RC0019.010
Matrix: Liquid

QC Sample Group: 7021351-358

Reported: Mar 6, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Total Dissolved Solids
QC Batch#:	GC022797 802002A	GC022797 802002A	GC022797 802002A	GC022797 802002A	SP022797 8015EXA	IN022597 160100B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 160.1
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510	EPA 160.1
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Sharma	Y. Borinshteyn
MS/MSD #:	7021352	7021352	7021352	7021352	BLK022797	7021357
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	3800 mg/L
Prepared Date:	2/27/97	2/27/97	2/27/97	2/27/97	2/27/97	2/25/97
Analyzed Date:	2/27/97	2/27/97	2/27/97	2/27/97	3/3/97	2/26/97
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	500 mg/L
Result:	19	23	22	64	350	4300
MS % Recovery:	95	115	110	107	117	100
Dup. Result:	19	23	22	64	350	4300
MSD % Recov.:	95	115	110	107	117	100
RPD:	0.0	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-50	0-20

LCS #:	2LCS022797	2LCS022797	2LCS022797	2LCS022797	LCS022797	LCS022597B
Prepared Date:	2/27/97	2/27/97	2/27/97	2/27/97	2/27/97	2/25/97
Analyzed Date:	2/27/97	2/27/97	2/27/97	2/27/97	3/3/97	2/26/97
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	500 mg/L
LCS Result:	19	23	22	64	340	470
LCS % Recov.:	95	115	110	107	113	94

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	60-140	80-120
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL, #1271

Melissa A Brewer

Melissa A. Brewer
Client Services Representative

Project Number RC0019.010
 Project Location Pewske/OAKLAND
 Laboratory SEQUOIA
 Sampler(s)/Affiliation GTC/GCM

SAMPLE BOTTLE / CONTAINER DESCRIPTION			BTEX/TPH-G	TPH-D	TDS							TOTAL
---------------------------------------	--	--	------------	-------	-----	--	--	--	--	--	--	-------

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	BTEX/TPH-G	TPH-D	TDS							TOTAL
MW-1	L	2/20 1:05		X	X	X	7021351	A-E					5
MW-2		2/20 2:55		X	X	X	7021352						5
MW-3		2/20 2:45		X	X	X	7021353						5
MW-4		2/20 2:05		X	X	X	7021354						5
MW-5		2/20 2:35		X	X	X	7021355						5
MW-6				X	X	X							5
MW-7		2/20 1:35		X	X	X	7021356						5
MW-8		2/20 2:20		X	X	X	7021357	✓					5
TB-LB				X			7021358						1

TOP

Sample Code: L = Liquid; S = Solid; A = Air
 Total No. of Bottles/Containers #736

Relinquished by: <u>J. Payne</u>	Organization: <u>GCM</u>	Date: <u>2/21/97</u>	Time: <u>11:50</u>	Seal Intact? Yes No N/A
Received by: <u>[Signature]</u>	Organization: <u>SEQUOIA Army</u>	Date: <u>2/21/97</u>	Time: <u>11:50</u>	
Relinquished by: <u>[Signature]</u>	Organization: <u>" "</u>	Date: <u>2/19/97</u>	Time: <u>13:15</u>	Seal Intact? Yes No N/A
Received by: <u>[Signature]</u>	Organization: <u>SAL</u>	Date: <u>2/20/97</u>	Time: <u>13:05</u>	

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Lab Courier Other _____