

ENVIRONMENTAL
PROTECTION
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**RESULTS OF QUARTERLY
GROUNDWATER MONITORING
FEBRUARY 1996
FORMER PENSKE TRUCK
LEASING CO. FACILITY
725 JULIE ANN WAY
OAKLAND, CALIFORNIA**

April 1996

Prepared by

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

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554.

May 14, 1996
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

SUBJECT: Results of Quarterly Groundwater Monitoring, February 1996
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 1996 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.

As we discussed during our telephone conversation during March 1996, Penske has requested that Geraghty & Miller complete additional purging on Wells MW-1, MW-4 and MW-7 to try to remove additional diesel concentrations in the groundwater near these wells. This additional purging has resulted in higher concentrations for TPH as diesel being sampled during this current sampling event. However, even with the higher diesel concentrations, the benzene concentrations in the trigger wells remain in compliance with the 21 µg/L level established with the ACHCSA.



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

Sincerely,
GERAGHTY & MILLER, INC.

A handwritten signature in black ink, appearing to read "Paul V. Hehn". The signature is fluid and cursive, with a large initial "P" and a long, sweeping underline.

Paul V. Hehn
Project Geologist/Project Manager

Attachment: Results of Quarterly Groundwater Monitoring, February 1996

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





Truck Leasing

Via Fax 510-233-3204

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

Re: 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. If you have questions or need assistance please call my office at 610-775-6010.

Sincerely,

Richard G. Saut
Environmental Project Manager

April 30, 1996
Project No. RC0019.010

Mr. Richard G. Saut
Manager, Environmental Projects
Penske Truck Leasing Co.
Route 10, Green Hills
P.O. Box 563
Reading, PA 19603

SUBJECT: Results of Quarterly Groundwater Monitoring
February 1996
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 13, 1996, 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.

FIELD PROCEDURES

The quarterly groundwater monitoring was performed on February 13, 1996. In accordance with the CZ concept approach monitoring and sampling plan referenced above, monitoring was completed and groundwater samples were collected from Monitor Wells MW-1 through MW-5, and MW-7. The monitor-well locations are shown in Figure 2.



Prior to sampling, depth-to-water and total-well-depth measurements were obtained from all wells on site. Additionally, the wells were checked for the presence of liquid-phase hydrocarbons. No liquid-phase hydrocarbons were observed in monitor 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 help remove dissolved-phase petroleum hydrocarbons from the groundwater. The exact volume of water removed during the extra purging is unknown but exceeded the minimum 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 4.64 feet (Monitor Well MW-7) to 5.91 feet (Monitor Well MW-3) below the ground surface. A contour map based on the groundwater elevation data collected February 13, 1996,



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 1996.

The difference in the elevation of the groundwater surface between Wells MW-2 and MW-4 is 0.35 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.0036 foot/foot in a westerly 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 Monitor Wells MW-4 (980 micrograms per liter [$\mu\text{g/L}$]) and MW-7 (1,800,00 $\mu\text{g/L}$). TPH as diesel was detected in the groundwater samples collected from Monitor Wells MW-1 (400 $\mu\text{g/L}$), MW-2 (1,500 $\mu\text{g/L}$), MW-3 (72 $\mu\text{g/L}$), MW-4 (7,500 $\mu\text{g/L}$), MW-5 (830 $\mu\text{g/L}$), and MW-7 (5,000,000 $\mu\text{g/L}$). Benzene was detected only in the groundwater samples collected from Monitor Wells MW-3 (16 $\mu\text{g/L}$) and MW-4 (570 $\mu\text{g/L}$). All other BTEX constituent results are presented in Table 2. TPH as gasoline and BTEX were not detected in the trip blank. Analysis of total dissolved solids in the groundwater samples detected concentrations ranging from 1,100 milligrams per liter (mg/L) in Monitor Well MW-2 to 3,900 mg/L in Monitor Well MW-7 (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 total dissolved solids were detected in the groundwater laboratory samples (Table 2).

COMPLIANCE WITH CONTAINMENT ZONE APPROACH


All shallow groundwater sample results collected from the guard wells continue to be below the compliance level for benzene (21 $\mu\text{g/L}$). Concentrations of benzene were not detected in shallow groundwater samples collected from designated CZ-concept guard well MW-5 for the February 1996 quarterly sampling event. Benzene was detected in guard well MW-3 at a concentration of 16 $\mu\text{g/L}$, which is below the required compliance level of 21 $\mu\text{g/L}$. Other wells (MW-1, MW-2, MW-5, and MW-7) were below the detection limit for benzene.




Well MW-4 reported concentrations of benzene at 570 µg/L. This compliance level for benzene was agreed to by both the ACHCSA and the RWQCB as part of the CZ concept approach for this former Penske facility. The compliance levels in the trigger wells have been met during this quarterly sampling event. Generally, higher concentrations for TPH as gasoline, TPH as diesel, and benzene were detected in some wells this quarter due to the extra purging activity requested by Penske. It is thought that this extra purging will help in the long term to remove additional remaining petroleum hydrocarbons from the groundwater downgradient from the former tank excavation, and thereby reduce the source of groundwater impacts.

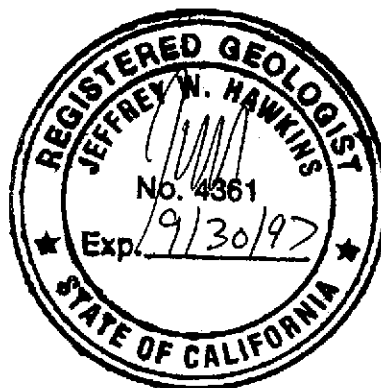
Geraghty & Miller appreciates the opportunity to be of service to Penske. If you have any questions regarding this report, please do not hesitate to call us.

Sincerely,
GERAGHTY & MILLER, INC.


Paul V. Hehn
Project Geologist/Project Manager


Jeffrey W. Hawkins, R.G.
Senior Geologist


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
Figure 3	Benzene Concentrations
Attachment 1	Copies of Certified Laboratory Reports and Chain-of-Custody Documentation



REFERENCES

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
		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-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		



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-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	



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		



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 of Well (a)	Calculated Purge Volume (b)	Actual Purge Volume	Field Measurements			Casing Diameter
		Water (a) (feet)	Elevation (feet)	Elevation (feet)	of Well (a) (feet)				Temp. (°F)	pH	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			
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			



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 (inches)
		Water (a) (feet)	Elevation (feet)	Elevation (feet)	of Well (a) (feet)	Purge Volume (b) (gallons)	Volume (gallons)	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	
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	
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	

Notes appear on the following page.



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 Water (a) (feet)	Top of Casing Elevation (feet)	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)
								pH	Temp. (°F)	SC (µS/cm)	

- (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.

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)	Toluene (b)	Ethyl-	Xylenes (b)	Total Dissolved
		Gasoline (a)	Diesel (a)			benzene (b)		Solids (c)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/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



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)	Toluene (b)	Ethyl- benzene (b)	Xylenes (b)	Total Dissolved Solids (c)
		Gasoline (a)	Diesel (a)					
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(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



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



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)	Toluene (b)	Ethyl- benzene (b)	Xylenes (b)	Total Dissolved Solids (c)
		Gasoline (a)	Diesel (a)					
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(mg/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	
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	



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)	Toluene (b)	Ethyl- benzene (b)	Xylenes (b)	Total Dissolved Solids (c)
		Gasoline (a)	Diesel (a)					
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
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
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
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
Trip Blank	13-Feb-96	ND(<50)	--	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	--

(Remarks on page 6.)



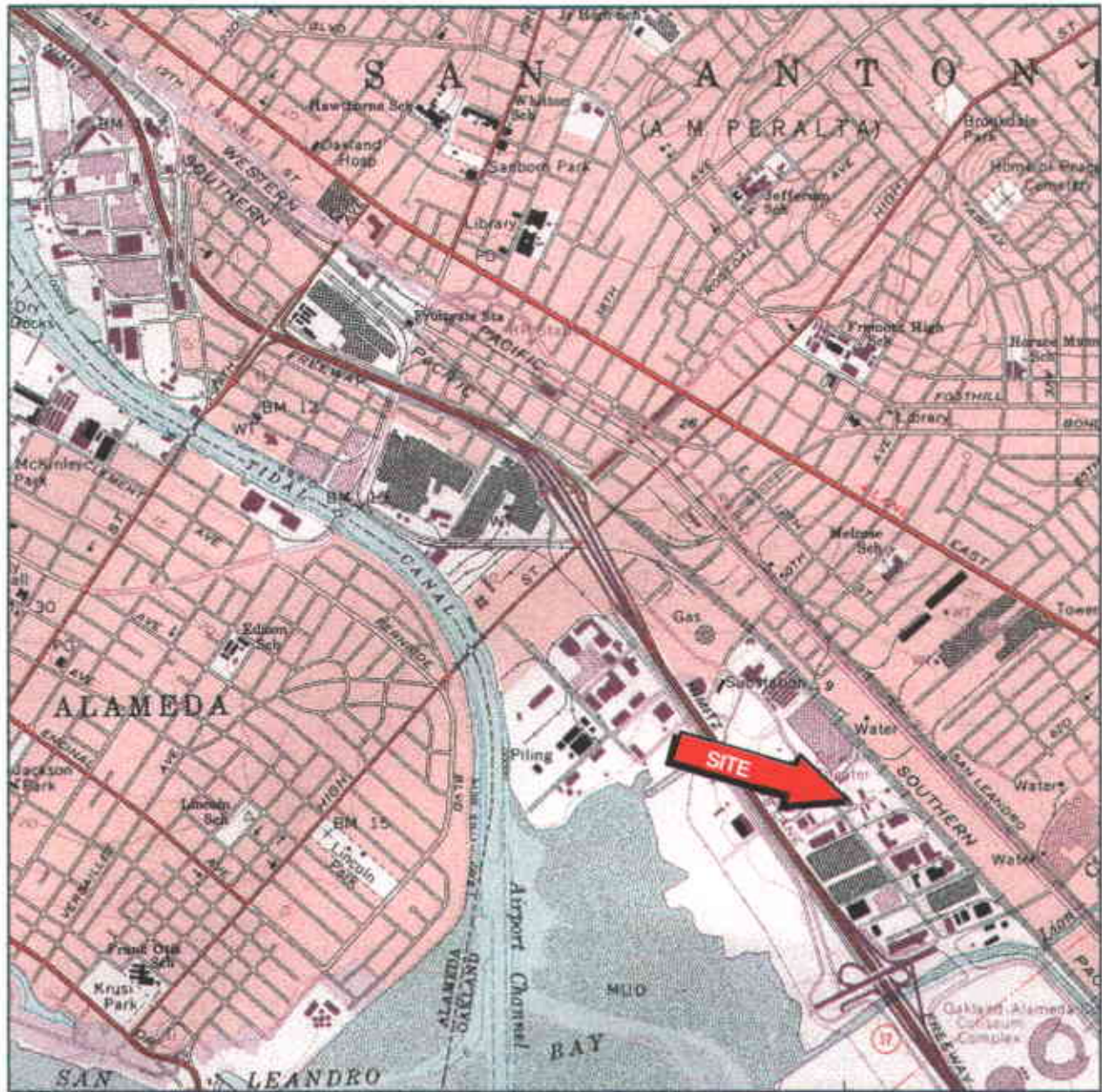
Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

Well	Date	TPH Gasoline (a) ($\mu\text{g/L}$)	TPH Diesel (a) ($\mu\text{g/L}$)	Benzene (b) ($\mu\text{g/L}$)	Toluene (b) ($\mu\text{g/L}$)	Ethyl- benzene (b) ($\mu\text{g/L}$)	Xylenes (b) ($\mu\text{g/L}$)	Total Dissolved Solids (c) (mg/L)
------	------	--	--	------------------------------------	------------------------------------	--	------------------------------------	--

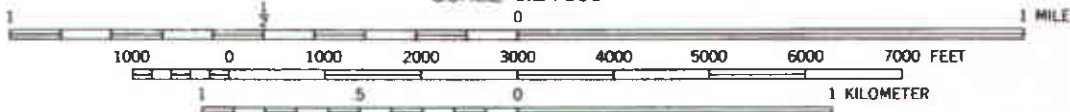
- (a) Analyzed by USEPA Method 8015, modified.
 - (b) Analyzed by USEPA Method 8020.
 - (c) Analyzed by USEPA Method 160.1.
 - (d) No results - sample for TPH as diesel not collected.
 - (e) Diesel range concentration reported. A nonstandard diesel pattern was observed in the chromatogram.
 - (f) Does 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.
- () Reported detection limit
 -- Not analyzed
 ND Not detected
 $\mu\text{g/L}$ 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.





SCALE 1:24 000



CONTOUR INTERVAL 20 FEET



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

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



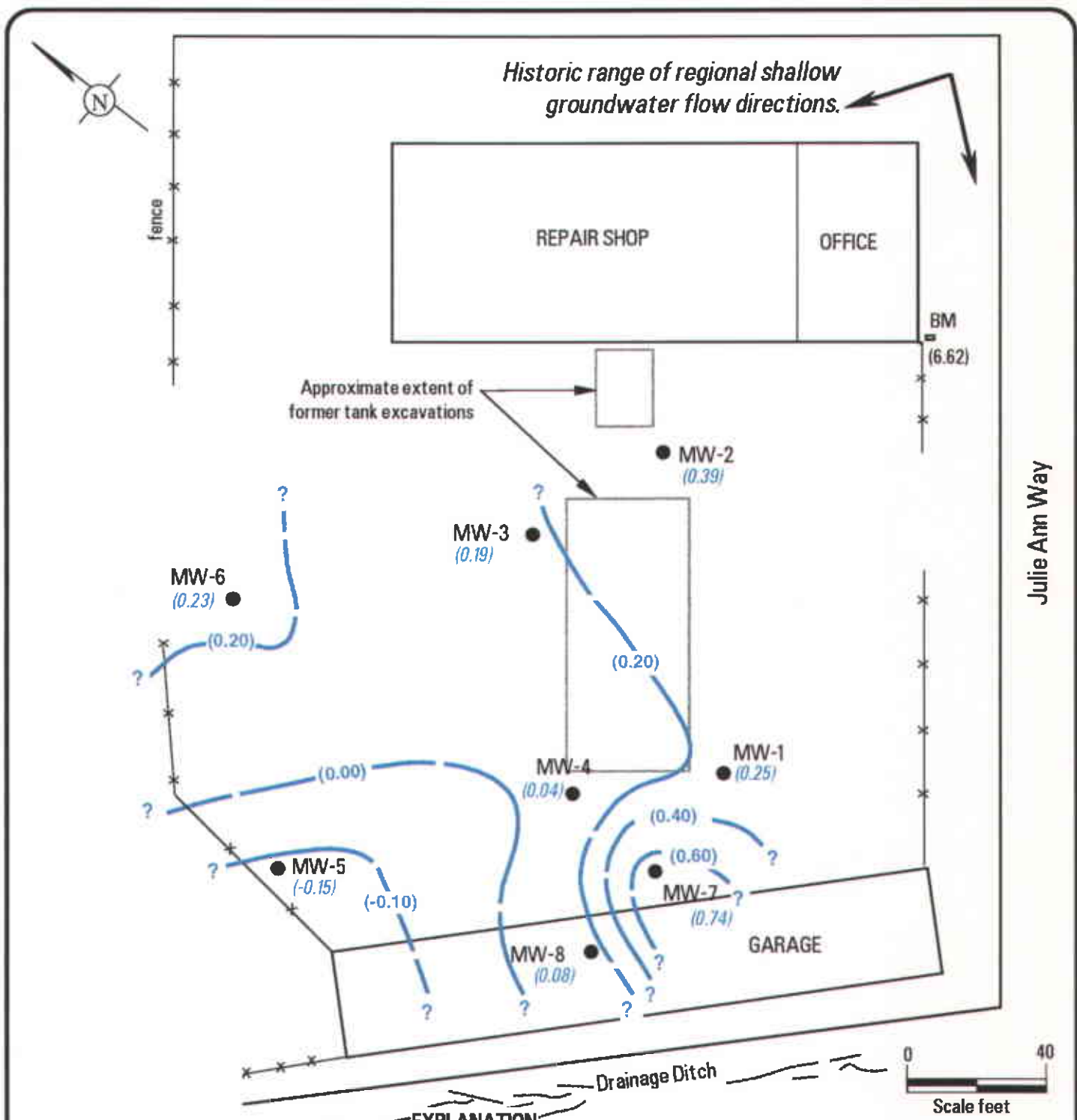
A Heidemij Company

Project No. RC0019.000

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

FIGURE

1



Julie Ann Way

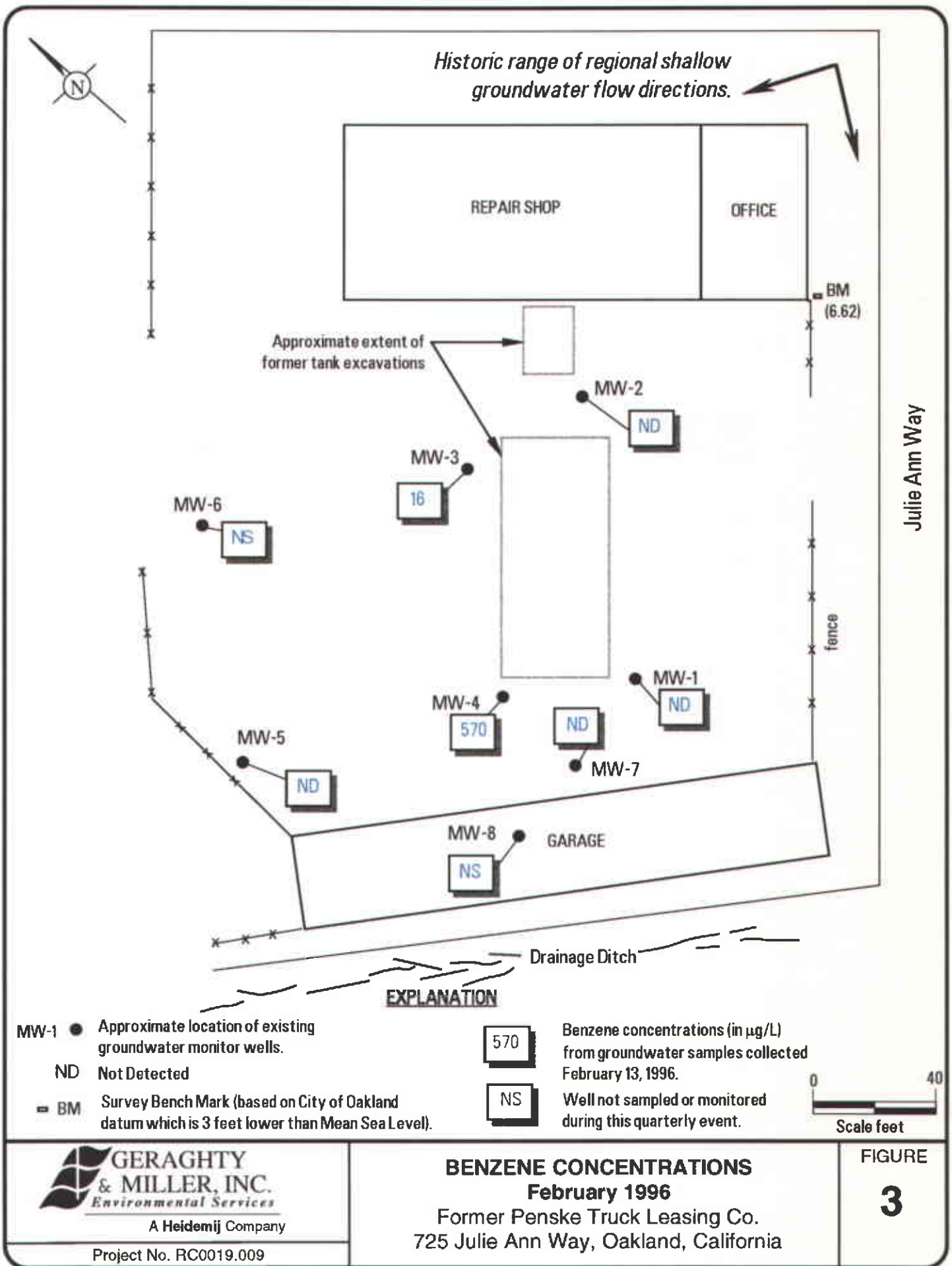
- EXPLANATION**
- MW-1 ● Approximate location of existing groundwater monitor wells.
 - BM Survey Bench Mark (based on City of Oakland datum which is 3 feet lower than Mean Sea Level).
 - (0.39) Groundwater elevation (feet) relative to benchmark, measured February 13, 1996
 - (NM) Well not sampled or monitored during this quarterly event.
 - (0.20) — Groundwater elevation contour (feet); dashed where inferred (contour interval equals 0.2 feet).



Project No. RC0019.009

SHALLOW GROUNDWATER CONTOURS
February 1996
 Former Penske Truck Leasing Co.
 725 Julie Ann Way, Oakland, California

FIGURE
2



ATTACHMENT 1

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



Sequoia Analytical

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Geraghty & Miller, Inc. 10 Marina Way South Richmond, CA 94804 Attention: Paul Hehn	Client Project ID: #RC0019.010 Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 602-1128	Sampled: Feb 13, 1996 Received: Feb 15, 1996 Reported: Mar 4, 1996
--	--	--

QC Batch Number:	GC022596	GC022596	GC022596	GC022596	GC022696	GC022796
------------------	----------	----------	----------	----------	----------	----------

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 802005A 602-1128 MW-1	Sample I.D. 802005A 602-1129 MW-3	Sample I.D. 802005A 602-1130 MW-2	Sample I.D. 802005A 602-1131 MW-5	Sample I.D. 802004A 602-1132 MW-4	Sample I.D. 802002A 602-1133 MW-7
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	N.D.	980	1,800,000
Benzene	0.50	N.D.	16	N.D.	N.D.	570	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	9.2	N.D.
Total Xylenes	0.50	N.D.	0.73	8.7	N.D.	13	N.D.
Chromatogram Pattern:		--	--	--	--	Unidentified Hydrocarbons >C8	Unidentified Hydrocarbons >C9

Quality Control Data							
Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	5.0	2,000	
Date Analyzed:	2/25/96	2/25/96	2/25/96	2/25/96	2/26/96	2/27/96	
Instrument Identification:	HP-5	HP-5	HP-5	HP-5	HP-4	HP-2	
Surrogate Recovery, %: (QC Limits = 70-130%)	89	91	88	92	98	107	

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

Kevin Van Slambrook
Project Manager



**Sequoia
Analytical**

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FAX (916) 921-0100

Geraghty & Miller, Inc.
1000 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.010
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 602-1134

Sampled: Feb 13, 1996
Received: Feb 15, 1996
Reported: Mar 4, 1996

Batch Number: GC022596

802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 602-1134 TB-LB
---------	-------------------------	----------------------------------

Purgeable hydrocarbons	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Total Xylenes	0.50	N.D.

Chromatogram Pattern: ..

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	2/25/96
Instrument Identification:	HP-5
Surrogate Recovery, %: (Control Limits = 70-130%)	92

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

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager



Sequoia Analytical

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Geraghty & Miller, Inc.
1000 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.010
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 602-1128

Sampled: Feb 13, 1996
Received: Feb 15, 1996
Reported: Mar 4, 1996

QC Batch Number:	SP021696	SP021696	SP021696	SP021696	SP021696	SP021696
	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 602-1128 MW-1	Sample I.D. 602-1129 MW-3	Sample I.D. 602-1130 MW-2	Sample I.D. 602-1131 MW-5	Sample I.D. 602-1132 MW-4	Sample I.D. 602-1133 MW-7
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Extractable Hydrocarbons	50	400	72	1,500	830	7,500	5,000,000
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Chromatogram Pattern:	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
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Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	5.0	1.0	1.0	5,000
Date Extracted:	2/16/96	2/16/96	2/16/96	2/16/96	2/16/96	2/16/96
Date Analyzed:	2/20/96	2/20/96	2/20/96	2/20/96	2/20/96	2/20/96
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	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

Kevin Van Slambrook
Project Manager



Sequoia Analytical

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Geraghty & Miller, Inc. 1050 Marina Way South Richmond, CA 94804 Attention: Paul Hehn	Client Project ID: #RC0019.010 Sample Descript: Water Analysis for: Total Dissolved Solids First Sample #: 602-1128	Sampled: Feb 13, 1996 Received: Feb 15, 1996 Analyzed: Feb 20, 1996 Reported: Mar 4, 1996
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LABORATORY ANALYSIS FOR: Total Dissolved Solids

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
602-1128	MW-1	1.0	3,600	IN022096160100A	Manual
602-1129	MW-3	1.0	3,400	IN022096160100A	Manual
602-1130	MW-2	1.0	1,100	IN022096160100B	Manual
602-1131	MW-5	1.0	3,000	IN022096160100B	Manual
602-1132	MW-4	1.0	3,600	IN022096160100B	Manual
602-1133	MW-7	1.0	3,900	IN022096160100B	Manual

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

SEQUOIA ANALYTICAL, #1271

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Kevin Van Slambrook
Project Manager



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Geraghty & Miller, Inc.
10 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.010
Matrix: Liquid

QC Sample Group: 6021128-134

Reported: Mar 4, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Total Dissolved Solids
QC Batch#:	GC022696 802004A	GC022696 802004A	GC022696 802004A	GC022696 802004A	SP021696 8015EXA	IN022096 160100A
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:	L Huang	L Huang	L Huang	L Huang	J. Dinsay	Y. Borinshsteyn
MS/MSD #:	6020764	6020764	6020764	6020764	BLK021696	6021129
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	3400 mg/L
Prepared Date:	2/26/96	2/26/96	2/26/96	2/26/96	2/16/96	2/20/96
Analyzed Date:	2/26/96	2/26/96	2/26/96	2/26/96	2/20/96	2/21/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	1000 mg/L
Result:	19	21	21	65	220	4500
MS % Recovery:	95	105	105	108	73	110
Dup. Result:	18	19	18	55	300	4300
MSD % Recov.:	90	95	90	92	100	90
RPD:	5.4	10	15	17	31	4.5
RPD Limit:	0-50	0-50	0-50	0-50	0-50	0-20

LCS #:	2LCS022696	2LCS022696	2LCS022696	2LCS022696	LCS021696	160.1YB 021
Prepared Date:	2/26/96	2/26/96	2/26/96	2/26/96	2/16/96	2/20/96
Analyzed Date:	2/26/96	2/26/96	2/26/96	2/26/96	2/20/96	2/21/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	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:	18	19	18	55	230	470
LCS % Recov.:	90	95	90	92	77	94

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	50-150	70-130
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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

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager



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Geraghty & Miller, Inc.
10 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.010
Matrix: Liquid

QC Sample Group: 6021128-134

Reported: Mar 4, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022596 802005A	GC022596 802005A	GC022596 802005A	GC022596 802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang
MS/MSD #:	6020981	6020981	6020981	6020981
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/25/96	2/25/96	2/25/96	2/25/96
Analyzed Date:	2/25/96	2/25/96	2/25/96	2/25/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	19	19	19	58
MS % Recovery:	95	95	95	97
Dup. Result:	19	19	19	59
MSD % Recov.:	95	95	95	98
RPD:	0.0	0.0	0.0	1.7
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	3LCS022596	3LCS022596	3LCS022596	3LCS022596
Prepared Date:	2/25/96	2/25/96	2/25/96	2/25/96
Analyzed Date:	2/25/96	2/25/96	2/25/96	2/25/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	20	20	21	62
LCS % Recov.:	100	100	105	103

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

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SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager



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Geraghty & Miller, Inc.
1000 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.010
Matrix: Liquid

QC Sample Group: 6021128-134

Reported: Mar 4, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Dissolved Solids
QC Batch#:	GC022796 802002A	GC022796 802002A	GC022796 802002A	GC022796 802002A	IN022096 160100B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 160.1
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 160.1
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang	Y. Borinshteyn
MS/MSD #:	6021284	6021284	6021284	6021284	6021141
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	5800 mg/L
Prepared Date:	2/27/96	2/27/96	2/27/96	2/27/96	2/20/96
Analyzed Date:	2/27/96	2/27/96	2/27/96	2/27/96	2/21/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	1000 mg/L
Result:	22	22	22	66	7000
MS % Recovery:	110	110	110	110	120
Dup. Result:	22	21	20	64	7000
MSD % Recov.:	110	105	100	107	120
RPD:	0.0	4.7	9.5	3.1	0.0
RPD Limit:	0-50	0-50	0-50	0-50	0-20

LCS #:	1LCS022796	1LCS022796	1LCS022796	1LCS022796	160.1YB021
Prepared Date:	2/27/96	2/27/96	2/27/96	2/27/96	2/20/96
Analyzed Date:	2/27/96	2/27/96	2/27/96	2/27/96	2/21/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 mg/L
LCS Result:	24	23	23	70	470
LCS % Recov.:	120	115	115	117	94

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	70-130
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SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager

Project Number RC0019.010
Project Location PENNSKE/OAKLAND
Laboratory SEQUOIA
Sampler(s)/Affiliation GERAGHTY & MILLER
G. Crowley

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION							TOTAL	
				BTEX / TPH-G (8020/8015)	TPH-D (8015)	TDS (160.1)						
MW-1	L	2/13 1:45		X	X	X				6021128	A-E	5
MW-3	L	2/13 4:00		X	X	X				6021129		5
MW-2	L	2/13 3:30		X	X	X				6021130		5
MW-5	L	2/13 4:45		X	X	X				6021131		5
MW-4	L	2/13 1:15		X	X	X				6021132		5
MW-7	L	2/13 3:00		X	X	X				6021133		5
TB-LB	L	/		X						6021134		1
10 DAY TURN AROUND												
											F 7 16	

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 31

Relinquished by: <u>[Signature]</u>	Organization: <u>G&M</u>	Date: <u>2/15/96</u> Time: _____	Seal Intact? <u>Yes</u> No N/A
Received by: <u>[Signature]</u>	Organization: <u>Seq</u>	Date: <u>2/15/96</u> Time: <u>1335</u>	
Relinquished by: <u>[Signature]</u>	Organization: <u>Seq</u>	Date: <u>2/17/96</u> Time: <u>1730</u>	Seal Intact? <u>Yes</u> No N/A
Received by: <u>[Signature]</u>	Organization: <u>Seq</u>	Date: <u>2/15/96</u> Time: <u>17:30</u>	

Special Instructions/Remarks: FAX RESULTS TO PAUL HEHN 510-233-3210
MAIL RESULTS TO " " , G&M , 1050 MARINA WAY SOUTH,
RICHMOND, CA 94804