



BACE Environmental
A Division of Brunsing Associates, Inc.

ENVIRONMENTAL
PROTECTION

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Project No. 29.7

February 18, 1997

Ms. Normita Callison
Pacific Coast Building Products
4290 Roseville Road
North Highlands, California 95660

RE: Quarterly Monitoring Report: January 1997
Pacific Supply Company
1735 24th Street, Oakland, California

Dear Ms. Callison:

This report has been prepared to document groundwater monitoring performed by BACE Environmental, a division of Brunsing Associates, Inc. (BAI) at the Pacific Supply Company property at 1735 24th Street, Oakland, California. Groundwater monitoring was conducted on January 7, 1997.

Scope of Work

The scope of work performed during this reporting period included testing for the existence of free product, calculating groundwater elevations, and collecting groundwater samples from onsite monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5, and off-site monitoring well MW-7 (Plate 1). The current groundwater schedule includes: 1) annual sampling of six wells (MW-1 through MW-5, and MW-7) in the first quarter, 2) semi-annual sampling of well MW-2 (first and third quarters), 3) semi-annual groundwater elevation monitoring (first and third quarters), 4) semi-annual reporting, and 5) deletion of well MW-6 from the monitoring program, based on 6 consecutive quarters of nondetectable concentrations of benzene, low total petroleum hydrocarbon (TPH) as gasoline concentrations, and the proximity of onsite monitoring well MW-4.

Site Background

Monitoring wells MW-1 through MW-5 were constructed in September, 1988 as the first phase of a soil and groundwater investigation. Monitoring wells MW-6 and MW-7 were constructed on December 19, 1989 during Phase II of the same investigation. Monitoring wells MW-4, MW-5, MW-6 and MW-7 were monitored for depth to groundwater. The construction and sampling of these wells are documented in BAI's Report of Findings, dated March 23, 1990.

Vapor recovery wells VRW-1 through VRW-9 were constructed in August, 1993 as part of a vapor recovery system. Installation of these wells were documented in a February 7, 1994 report. A vapor extraction system was installed in fall of 1993 and began operation on December 26, 1993. This system consisted of an internal combustion engine with a spray aeration tank for treatment of groundwater and activated carbon treatment of groundwater prior to discharge. The internal combustion unit and spray aeration unit was manufactured by Remediation Service International (RSI) under the trade name Spray Aeration Vapor Extraction (SAVE) system.

On June 28, 1996, the treatment system was shut down with the concurrence of Pacific Supply Company. Prior to shut down, the system had destroyed an estimated 6,550 pounds of petroleum hydrocarbons since start of operations on December 27, 1993. After shut down, the water in the water tank was treated and discharged to the sanitary sewer under the existing permit and the inside of the tank was cleaned on July 15, 1996.

The permit with BAAQMD expired on September 1, 1996, and was not renewed. The water discharge permit was discontinued on July 31, 1996, and the total water volume discharged to the sanitary sewer was 151,089 gallons. In December, 1996, the shut down and decommissioning of the system was authorized by Jennifer Eberle of the Alameda County Department of Health Services. Decommissioning of the system has not yet been complete.

Table 1 is a cumulative summary of the groundwater analytical data and groundwater elevation data available for the site.

Future Activities

In the semi-annual report dated August 28, 1996, BAI proposed using natural attenuation of petroleum hydrocarbons in the groundwater in combination with current groundwater monitoring requirements to complete the remediation at the site. Natural attenuation of petroleum hydrocarbons utilizes the naturally occurring biological breakdown processes to destroy the remaining hydrocarbons at the site. Natural attenuation has been found at other sites to be effective in destroying petroleum hydrocarbons and limiting their movement.

Groundwater monitoring will continue at the site, and water samples will be collected from onsite monitoring wells on a semi-annual basis. Purged groundwater from these activities will be stored onsite in 55-gallon drums until proper offsite disposal is initiated. No water will be discharged to the EBMUD sanitary sewer.



Groundwater Elevations

Depth to groundwater measurements were obtained on January 7, 1997 for wells MW-1 through MW-5, and well MW-7. The groundwater depths and elevations relative to mean sea level are shown on Plate 1 and in Table 1 with the analytical data. The groundwater flow direction near the former underground storage tank (UST) location is to the northwest, with a gradient of 0.009 foot per foot, based on the groundwater elevations in wells MW-1, MW-2, and MW-3. Monitoring well MW-7 continues to indicate an anomalously low groundwater elevation by a magnitude of several feet. The potentiometric surface contours are shown on Plate 1.

Groundwater Sampling

Groundwater monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 were sampled on January 7, 1997, using the methods described in Appendix A. Free product was not found in any of the wells. Groundwater samples were transported to BACE Analytical and Field Services (BAFS) for analyses using the following analytical methods:

- Total Petroleum Hydrocarbons (TPH) as gasoline
-EPA Test Method 5030/GCFID;
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX)
-EPA Test Method 5030/8020.

Groundwater Analytical Results

The analytical results show consistently low concentrations of petroleum hydrocarbons in the groundwater samples collected from monitoring wells MW-1, MW-3, and MW-4. Groundwater samples collected from well MW-2 since June, 1994, indicate that the petroleum hydrocarbon concentrations in that well have stabilized at 3.0 milligrams per liter (mg/l) or less. No concentration of TPH as gasoline was detected, at the laboratory reporting limit, in the groundwater samples collected from monitoring wells MW-5 and MW-7.

Concentrations of benzene were detected in the groundwater samples collected from wells MW-1 through MW-4. Concentrations of toluene were detected in the groundwater samples collected from wells MW-2 and MW-4. Concentrations of ethylbenzene and xylenes were detected in the groundwater sample collected from well MW-2. No detectable concentrations of any BTEX compound were detected in the groundwater samples collected from wells MW-5 or MW-7.

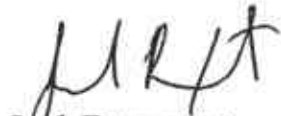


Ms. Normita Callison
February 18, 1997
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Analytical laboratory results for the January 7, 1997 groundwater monitoring event are summarized in Table 1, and the TPH as gasoline concentrations are shown on Plate 2. The laboratory report and Chain-of-Custody form for this sampling event are included in Appendix B.

If you have any questions, please contact Joel Bruxvoort at (415) 364-9030.

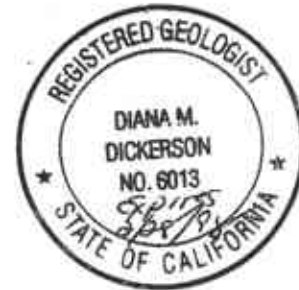
Sincerely,



Joel Bruxvoort
Project Geologist



Diana M. Dickerson R.G., R.E.A.
Senior Geologist



cc: Jennifer Eberle, Alameda County Health Agency
Tony DeJohn, Pacific Supply Company

List of Attachments

Table 1 - Analytical Data Summary
Plate 1 - Groundwater Elevations, January 7, 1997
Plate 2 - Total Petroleum Hydrocarbons as Gasoline, January 7, 1997

Appendix A - Monitoring Well Sampling Protocol
Appendix B - Analytical Laboratory Report



Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-1	10/14/88	7.99	0.88	1.1	1.1	ND	-	ND	-
MW-1	12/29/89	7.74	1.13	ND	ND	ND	ND	ND	ND (1)
MW-1	5/28/92	7.81	1.06	ND	ND	ND	ND	ND	0.003(2)
MW-1	9/3/92	7.90	0.97	ND	ND	ND	ND	ND	0.12 (2)
MW-1	11/24/92	7.90	0.97	ND	ND	ND	ND	ND	0.017 (2)
MW-1	3/9/93	7.38	1.49	ND	ND	ND	ND	ND	ND (1)
MW-1	7/21/93	7.68	1.19	ND	ND	ND	ND	ND	ND (1)
MW-1	11/3/93	7.83	1.04	ND	ND	ND	ND	ND	ND (1)
MW-1	2/1/94	7.30	1.57	ND	ND	ND	ND	ND	ND (1)
MW-1	6/2/94	7.43	1.44	ND	ND	ND	ND	ND	ND (1)
MW-1	9/1/94	7.70	1.17	ND	ND	ND	ND	ND	ND (1)
MW-1	12/13/94	6.90	1.97	ND	ND	ND	ND	ND	-
MW-1	3/7/95	7.30	1.57	0.06	3.8	ND	ND	ND	-
MW-1	6/9/95	7.87	1.00	0.09	12	0.8	0.5	1.3	-
MW-1	9/21/95	7.67	1.20	ND	4.1	ND	ND	ND	-
MW-1	12/18/95	7.15	1.72	ND	ND	ND	ND	ND	-
MW-1	2/29/96	6.74	2.13	0.09	1.4	0.5	ND	0.8	-
MW-1	7/15/96	7.76	1.11	-	-	-	-	-	-
MW-1	1/7/97	6.80	2.07	0.06	0.6	<0.5	<0.5	<0.5	-



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Pacific Supply Company
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Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-2	10/14/88	7.29	0.85	11	23	20	-	16	-
MW-2	12/29/89	6.87	1.27	4	200	6.7	ND	ND	0.22 (1)
MW-2	5/28/92	6.92	1.22	8.9	550	48	ND	13	ND (2)
MW-2	9/3/92	7.26	0.88	2.1	760	6.2	1.8	5.1	0.006 (2)
MW-2	11/24/92	7.28	0.86	4.2	370	15	3.4	9.5	ND (2)
MW-2	3/9/93	6.73	1.41	4.3	280	14	3.7	7.1	ND (1)
MW-2	7/21/93	7.02	1.12	3.4	250	9.6	2.5	11	ND(1)
MW-2	11/4/93	7.22	0.92	2.5	230	7.8	2.1	9.9	ND(1)
MW-2	2/1/94	6.93	1.21	3.4	240	17	ND	15	ND(1)
MW-2	6/2/94	6.86	1.28	3.0	150	9.8	3.0	10	ND(1)
MW-2	9/1/94	7.10	1.04	2.1	120	9.8	2.0	9.6	ND(1)
MW-2	12/13/94	6.58	1.56	2.0	200	10	2.7	11	-
MW-2	3/7/95	6.69	1.45	3.0	500	15	5.8	16	-
MW-2	6/9/95	7.00	1.14	2.1	300	14	5.8	13	-
MW-2	9/21/95	6.91	1.23	1.6	120	9.6	ND	15	-
MW-2	12/18/95	6.73	1.41	2.8	120	16	5.2	19	-
MW-2	2/29/96	6.36	1.78	1.7	170	15	2.9	17	-
MW-2	7/15/96	7.11	1.03	2.8	160	22	3.5	17	-
MW-2	1/7/97	6.40	1.74 ↑	3.0 ↑	350 ↑	25	8.1	24	-



Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-3	10/14/88	8.25	0.88	3.4	ND	ND	-	2.8	-
MW-3	12/29/89	7.79	1.34	ND	ND	ND	ND	ND	0.205 (1)
MW-3	5/28/92	7.83	1.30	ND	0.8	0.5	ND	ND	0.016 (2)
MW-3	9/3/92	8.22	0.91	ND	ND	ND	ND	ND	0.033 (2)
MW-3	11/24/92	8.29	0.84	ND	ND	ND	ND	ND	0.011 (2)
MW-3	3/9/93	7.30	1.83	0.1	1.8	ND	ND	ND	ND(1)
MW-3	7/21/93	7.87	1.26	ND	ND	ND	ND	ND	ND(1)
MW-3	11/4/93	8.23	0.90	0.07	0.6	0.5	ND	ND	ND(1)
MW-3	2/1/94	7.56	1.57	ND	ND	ND	ND	ND	ND(1)
MW-3	6/2/94	7.46	1.67	0.06	ND	ND	ND	ND	ND(1)
MW-3	9/1/94	7.83	1.30	0.07	1.7	0.9	ND	ND	ND(1)
MW-3	12/13/94	7.07	2.06	0.06	1.4	ND	ND	ND	-
MW-3	3/8/95	7.27	1.86	0.06	1.5	ND	ND	ND	-
MW-3	6/9/95	7.79	1.34	0.10	5.7	ND	ND	ND	-
MW-3	9/21/95	7.87	1.26	ND	1.5	ND	ND	ND	-
MW-3	12/18/95	7.30	1.83	ND	1.3	ND	ND	ND	-
MW-3	2/29/96	6.84	2.29	ND	2.1	0.6	ND	0.7	-
MW-3	7/15/96	7.79	1.34	-	-	-	-	-	-
MW-3	1/7/97	6.62	2.51	0.05	1.0	<0.5	<0.5	<0.5	-



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Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-4	10/14/88	8.33	0.74	4.6	1.2	ND	-	2.2	-
MW-4	12/29/89	8.08	0.99	0.5	0.7	ND	ND	ND	ND (1)
MW-4	5/28/92	8.19	0.88	0.27	8.8	1	ND	3.2	0.030 (2)
MW-4	9/3/92	8.37	0.70	0.20	4.5	4.4	ND	1.9	0.022 (2)
MW-4	11/24/92	8.28	0.79	0.14	3.2	3.2	ND	1.0	0.005 (2)
MW-4	3/9/93	7.98	1.09	0.47	10	ND	ND	2.5	ND (1)
MW-4	7/21/93	8.17	0.90	0.28	4.4	5.9	ND	ND	ND(1)
MW-4	11/4/93	8.14	0.93	0.08	1.3	1.6	ND	ND	ND(1)
MW-4	2/1/94	7.79	1.28	0.08	ND	ND	ND	ND	ND(1)
MW-4	6/2/94	7.53	1.54	0.30	3.1	2.9	ND	0.8	ND(1)
MW-4	9/1/94	7.69	1.38	0.12	1.6	ND	ND	ND	ND(1)
MW-4	12/13/94	6.70	2.37	ND	ND	ND	ND	ND	-
MW-4	3/8/95	6.83	2.24	0.09	ND	ND	ND	ND	-
MW-4	6/9/95	7.66	1.41	0.19	ND	ND	ND	ND	-
MW-4	9/21/95	7.93	1.14	0.09	ND	ND	ND	ND	-
MW-4	12/18/95	6.98	2.09	-	-	-	-	-	-
MW-4	2/29/96	6.54	2.53	0.14	1.6	1.0	ND	0.6	-
MW-4	7/15/96	7.74	1.33	-	-	-	-	-	-
MW-4	1/7/97	6.46	2.61	0.09	1.0	0.5	<0.5	<0.5	-



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ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-5	10/14/88	8.04	0.89	3.2	ND	ND	-	ND	-
MW-5	12/29/89	7.40	1.53	ND	ND	ND	ND	ND	ND (1)
MW-5	5/28/92	7.53	1.40	ND	ND	ND	ND	ND	0.008 (2)
MW-5	9/3/92	8.02	0.91	ND	ND	ND	ND	ND	0.034 (2)
MW-5	11/24/92	7.75	1.18	ND	ND	ND	ND	ND	0.011 (2)
MW-5	3/9/93	6.91	2.02	ND	ND	ND	ND	ND	ND (1)
MW-5	7/21/93	7.57	1.36	ND	ND	ND	ND	ND	ND(1)
MW-5	11/4/93	7.77	1.16	ND	ND	ND	ND	ND	ND(1)
MW-5	2/1/94	7.05	1.88	ND	ND	ND	ND	ND	ND(1)
MW-5	6/2/94	7.18	1.75	ND	ND	ND	ND	ND	ND(1)
MW-5	9/1/94	7.53	1.40	ND	ND	ND	ND	ND	-
MW-5	3/8/95	6.67	2.26	ND	ND	ND	ND	ND	-
MW-5	6/9/95	7.33	1.60	ND	ND	ND	ND	ND	-
MW-5	9/21/95	7.67	1.26	ND	ND	ND	ND	ND	-
MW-5	12/18/95	6.62	2.31	-	-	-	-	-	-
MW-5	2/29/96	6.16	2.77	ND	ND	ND	ND	ND	-
MW-5	7/15/96	7.47	1.46	-	-	-	-	-	-
MW-5	1/7/97	6.11	2.82	<0.05	<0.5	<0.5	<0.5	<0.5	-



Table 1
ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-6	12/29/89	5.02	1.11	1.1	5.4	4.5	ND	ND	ND (1)
MW-6	3/9/93	5.10	1.03	2.3	2.3	2.8	ND	3.1	ND (1)
MW-6	7/21/93	5.23	0.90	0.59	ND	7.6	ND	ND	ND(1)
MW-6	11/4/93	5.25	0.88	1.5	ND	1.2	ND	0.7	ND(1)
MW-6	2/1/94	5.05	1.08	1.9	2.5	3.9	1.6	1.1	ND(1)
MW-6	6/2/94	4.49	1.64	1.3	ND	1	ND	ND	ND(1)
MW-6	9/1/94	4.53	1.60	2.2	ND	1.7	ND	ND	ND(1)
MW-6	12/13/94	4.27	1.86	0.66 (3)	ND	ND	ND	ND	-
MW-6	3/8/95	3.37	2.76	1.0 (3)	ND	ND	ND	ND	-
MW-6	6/9/95	4.40	1.73	1.5	ND	3.3	ND	ND	-
MW-6	9/21/95	4.69	1.44	0.28	ND	ND	ND	ND	-
MW-6	12/18/95	4.42	1.71	-	-	-	-	-	-

Note: Based on the February 6, 1996 letter from Jennifer Eberle, monitoring of well MW-6 is no longer required.



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ANALYTICAL DATA SUMMARY
Pacific Supply Company
1735 24th Street, Oakland, California

Well Name	Sampling Date	Depth to Groundwater (feet)	Groundwater Elevation (feet, MSL)	TPH as gasoline mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-7	12/29/89	8.35	-3.32	ND	ND	ND	ND	ND	0.235 (1)
MW-7	3/9/93	13.60	-8.57	ND	ND	ND	ND	ND	ND (1)
MW-7	7/21/93	12.59	-7.56	ND	ND	ND	ND	ND	ND(1)
MW-7	11/4/93	9.84	-4.81	ND	ND	ND	ND	ND	ND(1)
MW-7	2/1/94	10.38	-5.35	ND	ND	ND	ND	ND	ND(1)
MW-7	6/2/94	10.10	-5.07	ND	ND	ND	ND	ND	ND(1)
MW-7	9/1/94	9.63	-4.60	ND	ND	ND	ND	ND	ND(1)
MW-7	12/13/94	11.27	-6.24	ND	ND	ND	ND	ND	-
MW-7	3/7/95	9.68	-4.65	ND	ND	ND	ND	ND	-
MW-7	6/9/95	9.37	-4.34	ND	ND	ND	ND	ND	-
MW-7	9/21/95	9.43	-4.40	ND	ND	ND	ND	ND	-
MW-7	12/18/95	13.28	-8.25	-	-	-	-	-	-
MW-7	2/29/96	11.70	-6.67	ND	ND	ND	ND	ND	-
MW-7	7/15/96	11.12	-6.09	-	-	-	-	-	-
MW-7	1/7/97	14.35	-9.32	<0.05	<0.5	<0.5	<0.5	<0.5	-

Notes:

- (1) Organic Lead
- (2) Total Lead
- (3) Chromatographic peak array does not match gasoline standard

ND = not detected at laboratory reporting limit

µg/L = micrograms per liter

mg/L = milligrams per liter

- = not analyzed

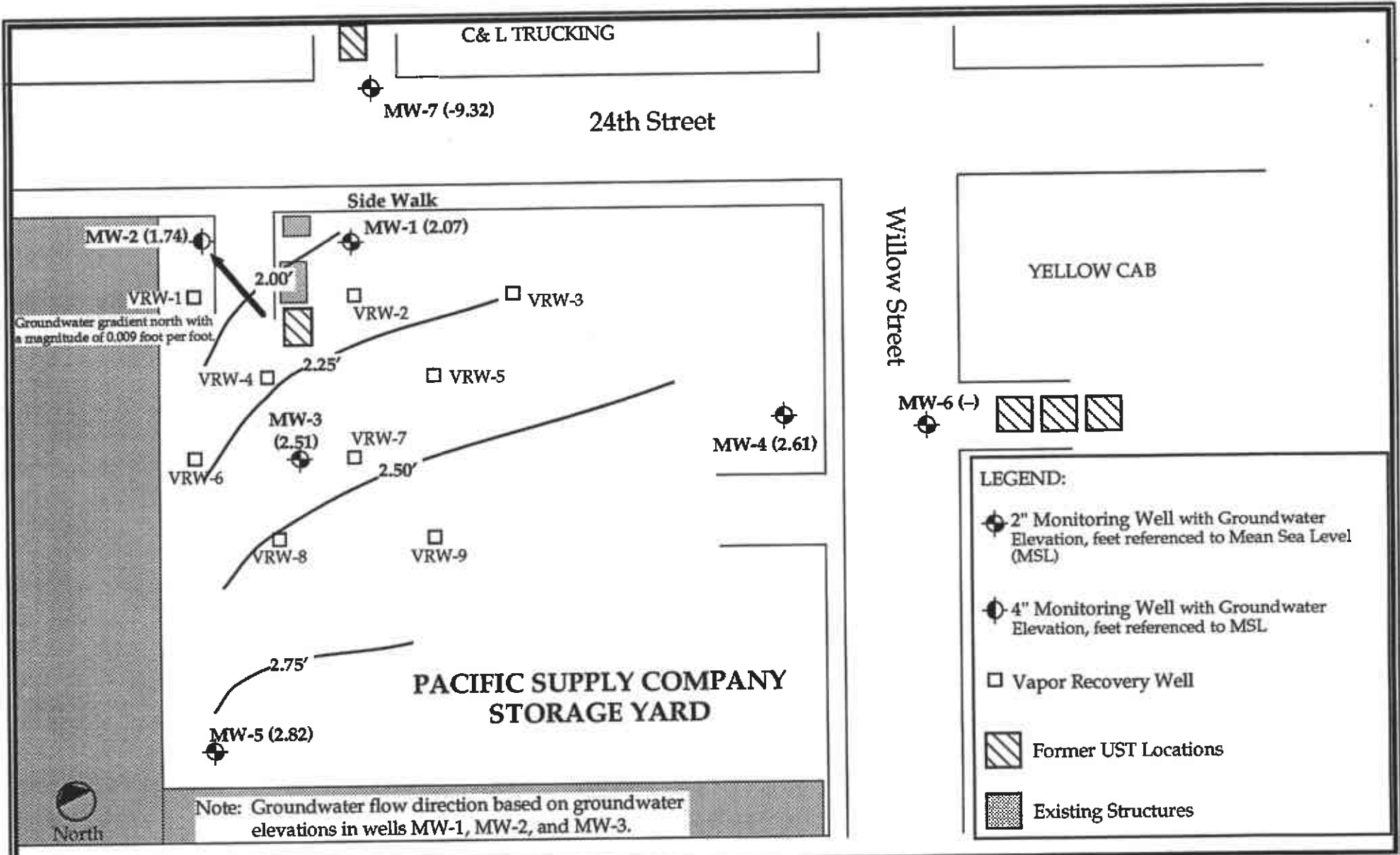
MSL = mean seal level

Groundwater elevations based on the following well casing elevations:

MW-1 (8.87'), MW-2 (8.14'), MW-3 (9.13'), MW-4 (9.07')

MW-5 (8.93'), MW-6 (6.13') and MW-7 (9.68').





PROJECT NUMBER: 29.7
 PACIFIC SUPPLY COMPANY
 OAKLAND, CALIFORNIA

DRAWING NUMBER: 29.7-01

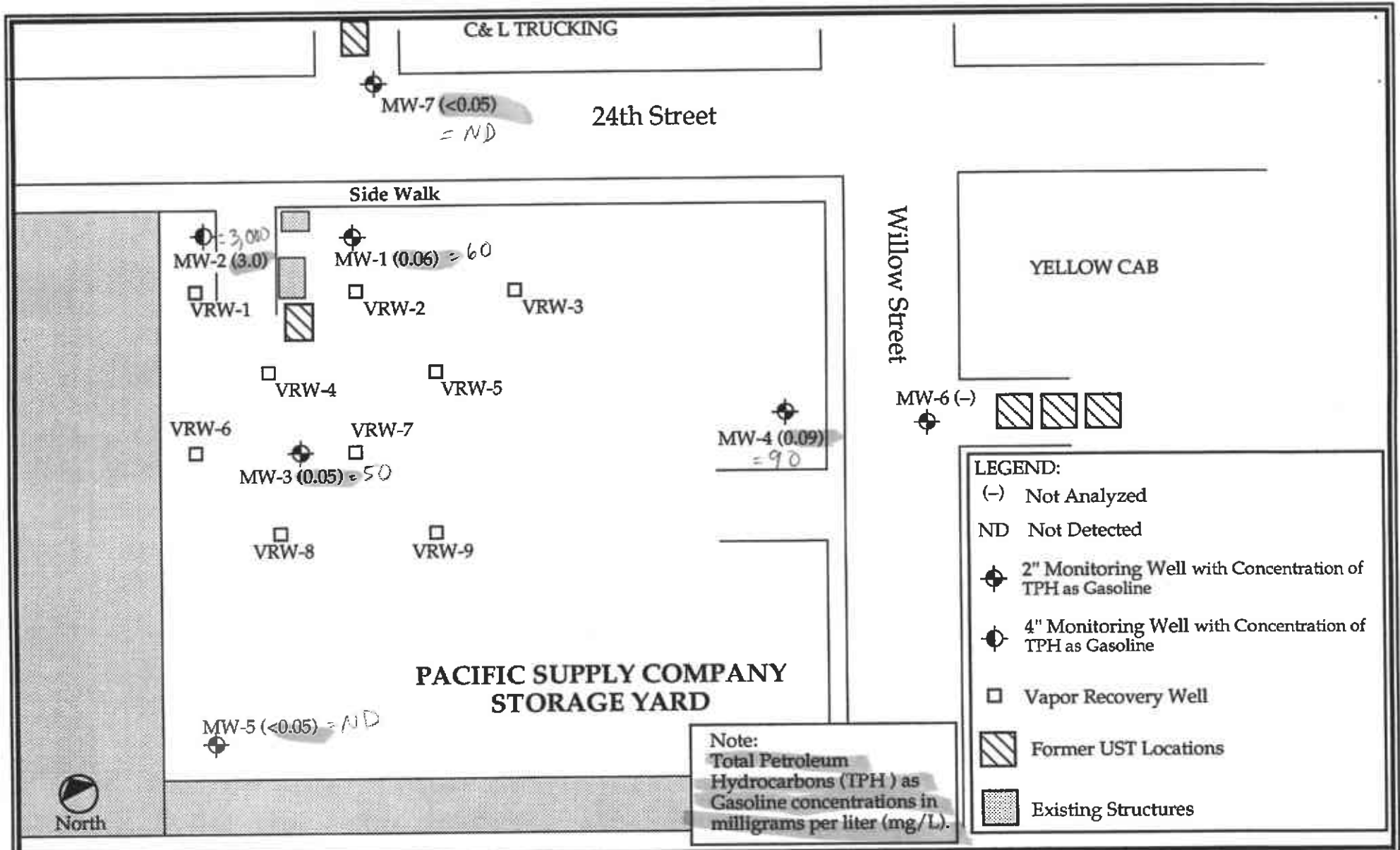
DRAWN BY: TFA 1/28/97

APPROVED BY: JBB

SCALE: 1 Inch = 50 Feet

BACE Environmental
 A Division of
Brunsing Associates, Inc.

Plate 1
 Groundwater Elevations
 January 7, 1997
 Pacific Supply Company
 1735 24th Street
 Oakland, California



PROJECT NUMBER: 29.7
 PACIFIC SUPPLY COMPANY
 OAKLAND, CALIFORNIA
 DRAWING NUMBER: 29.7-01
 DRAWN BY: TFA 1/28/97
 APPROVED BY:
 SCALE: 1 Inch = 50 Feet

BACE Environmental
 A Division of
Brunsing Associates, Inc.

Plate 2
 Total Petroleum Hydrocarbons as Gasoline
 January 7, 1997
 Pacific Supply Company
 1735 24th Street
 Oakland, California

APPENDIX A
Monitoring Well Sampling Protocol



Monitoring Well Sampling Protocol

Prior to purging of each monitoring well, the groundwater level is measured and a single bailer full of water is retrieved from the well to check for floating product. The monitoring well is then purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water stabilizes. If wells go dry during purging, the wells are allowed to recover to 80 percent of original water level prior to sampling.

A single groundwater sample is collected from each monitoring well following re-equilibration of each well after purging. Individual log sheets are maintained throughout the sampling operations. The following information is recorded:

- Sample number
- Date and time sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

The sample is collected in the following manner:

- A hand-operated, factory-sealed, disposable, polyethylene bailer with sampling port is used for collecting all water samples. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the sampling port when collecting samples to be analyzed for VOCs.
- The sample container(s) are obtained directly from the analytical laboratory. Sample bottles, bottle caps, and septa are protected from solvent contact, dust or other contamination between time of receipt by the field sampler and time of actual usage at the sampling site.

The sample container is labeled with a self-adhesive tag. Field personnel label the tag, using waterproof ink, with the following information:

- Project number
- Sample number
- Date and time sample is obtained
- Initials of sample collector(s).



Following collection, the sample is immediately stored on blue ice in an appropriate container. A Chain-of-Custody Record is completed with the following information:

- Date the sample was taken
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the Chain-of-Custody Record accompanies the sample containers to a California-certified laboratory. The duplicate copy is retained by the BAI representative who sampled the well.

Sampling equipment is cleaned both before and after their use at the sampling location. Thermometers, pH electrodes, and conductivity probes are also cleaned.

The following cleaning procedures are used:

- Scrub with a detergent-potable water solution or other solutions deemed appropriate using a hard bristle brush
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.



APPENDIX B
Analytical Laboratory Report





BACE Analytical & Field Services
A Division of Brunsing Associates, Inc.

January 23, 1997

Log No: 2572

Laboratory Certification Number: 1264

BACE Environmental
a division of
Brunsing Associates, Inc.
P. O. Box 588
Windsor, California 95492

ATTN: Joel Bruxvoort

RE: Results of the analyses of groundwater samples obtained for project number 29.7 on January 7, 1997.

Dear Mr. Bruxvoort,

This letter serves to confirm the analytical results previously communicated to you. Should any questions arise concerning procedure or results, please feel free to contact us.

Sincerely,

William G. Rotz
Director, Mobile Analytical Services

Tami Hucke Norgrove
Laboratory Manager

Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 1/7/97
Analysis Date: 1/16/97

BAFS Log No: 2572

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l	
			2572-1 (MW-1)	2572-2 (MW-2)
Benzene	0.5		0.6	350
Toluene	0.5		ND	25
Ethylbenzene	0.5		ND	8.1
Xylenes (total)	0.5		ND	24
Dilution Factor:			1	5

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l	
			2572-1 (MW-1)	2572-2 (MW-2)
TPH - gasoline	0.05		0.06	3.0
Dilution Factor:			1	5

NOTE: ND = not detected.



Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 1/7/97
Analysis Date: 1/17/97

BAFS Log No: 2572

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l	
			2572-3 (MW-3)	2572-4 (MW-4)
Benzene	0.5		1.0	1.0
Toluene	0.5		ND	0.5
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND
Dilution Factor:			1	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l	
			2572-3 (MW-3)	2572-4 (MW-4)
TPH - gasoline	0.05		0.05	0.09
Dilution Factor:			1	1

NOTE: ND = not detected.



Client: BACE Environmental
Client Contact: Joel Bruxvoort

Sample Date: 1/7/97
Analysis Date: 1/17/97

BAFS Log No: 2572

METHOD: EPA 5030/8020

Matrix: Water

Parameter	Reporting Limit µg/l	Lab No: Descriptor:	Results - µg/l	
			2572-5 (MW-5)	2572-6 (MW-7)
Benzene	0.5		ND	ND
Toluene	0.5		ND	ND
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND
Dilution Factor:			1	1

METHOD: 5030 / GC FID

Parameter	Reporting Limit mg/l	Lab No: Descriptor:	Results - mg/l	
			2572-5 (MW-5)	2572-6 (MW-7)
TPH - gasoline	0.05		ND	ND
Dilution Factor:			1	1

NOTE: ND = not detected.



**SUMMARY OF
LABORATORY RESULTS ***

Pacific Supply - Project No. 29.7

WATER

Lab Number	Descriptor	Sampling Date	TPH-gasoline mg/l	Benzene µg/l	Toluene µg/l	Ethylbenzene µg/l	Xylenes µg/l
2572-1	MW-1	1/7/97	0.06	0.6	ND	ND	ND
2572-2	MW-2	1/7/97	3.0	350	25	8.1	24
2572-3	MW-3	1/7/97	0.05	1.0	ND	ND	ND
2572-4	MW-4	1/7/97	0.09	1.0	0.5	ND	ND
2572-5	MW-5	1/7/97	ND	ND	ND	ND	ND
2572-6	MW-7	1/7/97	ND	ND	ND	ND	ND

* See original laboratory report dated 1/23/97 for complete results.



QUALITY CONTROL SUMMARY

Client: BACE Environmental
Client Contact: Joel Bruxvoort
Sample Date: 1/7/97
Analysis Date: 1/16 & 17/97

BAFS Log No. : 2572

Matrix: Water

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Gasoline	93	ND	98	104	5.9
Benzene	101	ND	94	95	1.1
Toluene	96	ND	99	100	1.0
Ethylbenzene	95	ND	101	103	2.0
Xylene	93	ND	102	102	<1

* Continuous Calibration Verification Standard




PROJ. NO. 29.7		PROJECT NAME Pacific Supply		NO. OF CONTAINERS	ANALYSIS TPH 8015 5717 8020	No 2625	REMARKS
L.P. NO.		SAMPLERS: (Signature) Tom Allen					
DATE	SAMPLE I.D.	TYPE					
1/7/97	MW-1	Water	3	X			3 e.a. 40ml bottles 2572-1
	MW-2			X			-2
	MW-3			X			-3
	MW-4			X			-4
	MW-5			X			-5
	MW-7			X			-6

LABORATORY: **BAFS**

Relinquished by: (Signature) <i>Tom Allen</i>	Date/Time 1/7/97 1705	Received by: (Signature) <i>UPS</i>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time 1/8/97 1100	Received for Laboratory by: (Signature) <i>[Signature]</i>

Remarks
Std. TAT
RESULTS TO
Goel

 **BRUNSING ASSOCIATES, INC.**

Offices:

PO Box 588 Windsor CA 95492 707-838-3027	1735 E. Bayshore Rd., [A] Redwood City CA 94063 415-364-9031	1515 Ninth Street Rock Springs WY 82901 307-362-9277
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