

EXXON COMPANY, U.S.A.

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MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
SENIOR ENGINEER

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ENVIRONMENTAL
PROTECTION
26 NOV 27 PM 1:38

November 22, 1996

Mr. Scott Seery
Alameda County Environmental Health Department
Hazardous Materials Division
1131 Harbor Bay Parkway
Alameda, CA 94501 6577

RE: Exxon RAS #7-7003/349 Main St., Pleasanton, CA

Dear Mr. Seery:

Attached for your review and comment is a letter report entitled *Quarterly Ground Water Monitoring Report, Third Quarter 1996*, for the above referenced site. This report, prepared by Delta Environmental Consultants of Rancho Cordova, California, details the results of the September 1996 monitoring and sampling events.

If you have any questions or comments, please contact Roger Hicks at (510) 246-8768.

Sincerely,

By: *R. Hicks*

Marla D. Guensler
Senior Engineer

MDG/tjm

attachment: Delta Report dated November 6, 1996

cc: w/attachment:

Mr. David Lunn - Alameda Co. Flood Control and Water Conservation District
Mr. Sum Arigalia - San Francisco Bay Region WQCB

w/o attachment:

Ms. Linda McGahan - Delta Environmental



3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670
916/638-2085
FAX: 916/638-8385

November 6, 1996

Ms. Marla D. Guensler
Exxon Company, U.S.A.
2300 Clayton Road, Suite 640
Concord, California 94520

Subject: *Quarterly Ground Water Monitoring Report, Third Quarter 1996*
Exxon Service Station No. 7-7003
349 Main Street
Pleasanton, California
Delta Project No. D094-838

Dear Ms. Guensler:

Delta Environmental Consultants, Inc. (Delta), has been authorized by Exxon Company, U.S.A. (Exxon), to conduct quarterly ground water monitoring at Exxon Service Station No. 7-7003, located at 349 Main Street, Pleasanton, California. This letter report presents the results of quarterly ground water monitoring and sampling conducted on September 25, 1996. The location of the site is shown in Figure 1 and site features are illustrated in Figure 2. All work conducted at the site by Delta was performed in accordance with the field methods and procedures described in Enclosure A.

Ground Water Table Elevation, Flow Direction, and Hydraulic Gradient

Ground water table elevations were measured in monitoring wells MW-1 through MW-8, and vapor extraction wells VE-1 through VE-3 on September 25, 1996. Depth to ground water ranged from 20.04 (VE-3) to 27.80 (MW-6) feet below the top of the well casings. The ground water table elevation has decreased approximately two feet since the previous quarter. Cumulative ground water table measurements are presented in Table 1.

A water table contour map constructed from the ground water elevations recorded on September 25, 1996, is included as Figure 3. Based on the ground water table contours, ground water flow direction is to the northwest with an average hydraulic gradient of approximately 0.07.

Subjective Analysis

No liquid-phase petroleum hydrocarbons or hydrocarbon sheens were present in the wells during the third quarter 1996 monitoring event.

Ground Water Sample Analytical Results

Ground water samples were collected from monitoring wells MW-1 through MW-8, and vapor extraction wells VE-1 through VE-3 on September 25, 1996. The samples were submitted to Sequoia Analytical (a California-certified laboratory) for analysis of benzene, toluene, ethylbenzene, total xylenes, methyl tertiary butyl ether (MTBE), and total petroleum hydrocarbons (TPH) as gasoline. A summary of analytical results from ground water samples collected to date are presented in Table 2.

Analytical results report that benzene was present in the ground water samples collected from monitoring well MW-1 at concentration of 11 micrograms per liter ($\mu\text{g/L}$). The remaining ground water samples did not contain benzene above the laboratory detection limits. Ground water samples collected from monitoring wells MW-1, MW-2, and vapor extraction wells VE-1, VE-2 contained TPH as gasoline in concentrations ranging from 170 $\mu\text{g/L}$ (MW-2) to 2,500 $\mu\text{g/L}$ (VE-1). MTBE was reported above the laboratory detection limits in vapor extraction well sample VE-2 at a concentration of 11 mg/L . MTBE was not detected above the reported laboratory detection limits in the remaining ground water samples.

A dissolved benzene concentration map based on analytical results for ground water samples collected on September 25, 1996, is included as Figure 4. A copy of the laboratory analytical report for the third quarter 1996, sampling event is presented in Enclosure B.

Future Work

The next quarterly monitoring event for this site is scheduled for December 1996.

Remarks/Signatures

The interpretations contained in this document represent our professional opinions, and are based in part on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Delta recommends that copies of this document be forwarded to:

Mr. Jerry Killingstad
Alameda County Flood Control
and Water Conservation District (Zone 7)
5997 Parkside Drive
Pleasanton, California 94566

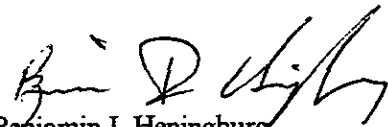
Mr. Sum Arigalia
California Regional Water Quality Control Board,
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

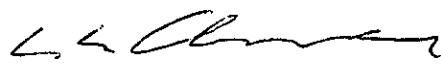
Ms. Marla D. Guensler
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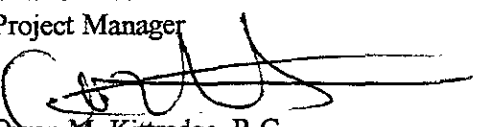
If you have any questions regarding this project, please contact Keoni Almeida at (916) 638-2085.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.


Benjamin I. Heningburg
Staff Geologist


Charles Keoni Almeida
Project Manager


Owen M. Kittredge, R.G.
California Registered Geologist No. 5853



BIH (LRP004.838)
Enclosures

TABLE 1

GROUND WATER LEVEL MEASUREMENTS

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Reference ^a Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Comments
MW-1	02/23/90	343.83	26.08	317.75	No LPH ^b
	06/15/90		26.49	317.34	No LPH
	08/01/90		26.47	317.36	No LPH
	12/18/90		28.00	315.83	No LPH
	03/19/91		23.63	320.20	No LPH
	06/27/91		22.11	321.72	No LPH
	09/26/91		27.75	316.08	No LPH
	01/10/92		25.61	318.22	No LPH
	03/12-13/92		22.52	321.31	No LPH
	06/09/92		21.53	322.30	No LPH
	09/28-29/92		29.84	313.99	No LPH
	12/12/92		23.86	319.97	No LPH
	02/02-03/93		19.00	324.83	No LPH
	06/08-09/93		16.62	327.21	No LPH
	09/22-23/93		19.63	324.20	No LPH
	11/17-18/93		20.82	323.01	No LPH
	02/16-17/94		21.47	322.36	No LPH
	05/12-13/94		19.78	324.05	No LPH
	09/07/94		21.16	322.67	No LPH
	12/02/94		Dry	—	—
	03/06/95		18.70	325.13	No LPH
	05/30/95		17.70	326.13	No LPH
	09/06/95		20.21	323.62	No LPH
	11/30/95		21.47	322.36	No LPH
	03/28/96		15.45	328.38	No LPH
	06/25/96		18.91	324.92	No LPH
09/25/96	21.10	322.73	No LPH		
MW-2	02/23/90	344.22	26.31	317.91	No LPH
	06/15/90		26.25	317.97	No LPH
	08/01/90		26.15	318.07	No LPH
	12/18/90		27.94	316.28	No LPH
	03/19/91		23.41	320.81	No LPH
	06/27/91		21.63	322.59	No LPH
	09/26/91		27.19	317.03	No LPH
	01/10/92		25.67	318.55	No LPH
	03/12-13/92		22.28	321.94	No LPH
	06/09/92		21.17	323.05	No LPH
	09/28-29/92		29.58	314.64	No LPH
	12/12/92		NM ^c	—	NM

TABLE 1-Continued

GROUND WATER LEVEL MEASUREMENTS

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

<u>Monitoring Well</u>	<u>Date</u>	<u>Reference^a Elevation (ft)</u>	<u>Depth to Ground Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Comments</u>
	02/02-03/93		18.69	325.53	No LPH
	06/08-09/93		16.32	327.90	No LPH
	09/22-23/93		19.43	324.79	No LPH
	11/17-18/93		20.56	323.66	No LPH
	02/16-17/94		20.93	323.29	No LPH
	05/12-13/94		19.64	324.58	No LPH
	09/07/94		20.93	323.29	No LPH
	12/02/94		20.39	323.83	No LPH
	03/06/95		18.66	325.56	No LPH
	05/30/95		17.69	326.53	No LPH
	09/06/95		20.18	324.04	No LPH
	11/30/95		21.17	323.05	No LPH
	03/28/96		NM	--	--
	06/25/96		18.91	325.31	No LPH
	09/25/96		20.92	323.30	No LPH
MW-3	02/23/90	342.70	24.78	317.92	No LPH
	06/15/90		25.29	317.41	No LPH
	08/90		25.40	317.30	No LPH
	12/18/90		26.84	315.86	No LPH
	03/19/91		22.13	320.57	No LPH
	06/27/91		21.04	321.66	No LPH
	09/26/91		26.63	316.07	No LPH
	01/10/92		24.26	318.44	No LPH
	03/12-13/92		21.60	321.10	No LPH
	06/09/92		20.88	321.82	No LPH
	09/28-29/92		28.67	314.03	No LPH
	12/12/92		20.73	321.97	No LPH
	02/02-03/93		19.30	323.40	No LPH
	06/08-09/93		15.89	326.81	No LPH
	09/22/93		18.63	324.07	No LPH
	11/17-18/93		19.97	322.73	No LPH
	02/16-17/94		20.64	322.06	No LPH
	05/12-13/94		18.32	324.38	No LPH
	09/07/94		20.52	322.18	No LPH
	12/02/94		19.59	323.11	No LPH
	03/06/95		16.98	325.72	No LPH
	05/30/95		16.65	326.05	No LPH
	09/06/95		18.86	323.84	No LPH
	11/30/95		20.76	321.94	No LPH
	03/28/96		14.93	327.77	No LPH
	06/25/96		17.85	324.85	No LPH
	09/25/96		20.29	322.41	No LPH

TABLE 1-Continued

GROUND WATER LEVEL MEASUREMENTS

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Reference ^a Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Comments
MW-4	06/15/90	343.38	30.94	312.44	No LPH
	08/90		31.21	312.17	No LPH
	12/18/90		32.86	310.52	No LPH
	03/19/91		26.76	316.62	No LPH
	06/27/91		25.91	317.47	No LPH
	09/26/91		32.29	311.09	No LPH
	01/10/92		29.06	314.32	No LPH
	03/12-13/92		24.25	319.13	No LPH
	06/09/92		25.00	318.38	No LPH
	09/28-29/92		34.41	308.97	No LPH
	12/12/92		30.77	312.61	No LPH
	02/02-03/93		21.03	322.35	No LPH
	06/08-09/93		18.35	325.03	No LPH
	09/22-23/93		21.86	321.52	No LPH
	11/17-18/93		22.98	320.40	No LPH
	02/16-17/94		23.94	319.44	No LPH
	05/12-13/94		22.30	321.08	No LPH
	09/07/94		23.44	319.94	No LPH
	12/02/94		23.07	320.31	No LPH
	03/06/95		20.52	322.86	No LPH
	05/30/95		19.16	324.22	No LPH
09/06/95	22.26	321.12	No LPH		
11/30/95	23.67	319.71	No LPH		
03/28/96	16.50	326.88	No LPH		
06/25/96	20.38	323.00	No LPH		
09/25/96	23.16	320.22	No LPH		
MW-5	06/15/90	345.20	26.94	318.26	No LPH
	08/90		26.90	318.30	No LPH
	12/18/90		28.31	316.89	No LPH
	03/19/91		23.98	321.22	No LPH
	06/27/91		22.41	322.79	No LPH
	09/26/91		27.77	317.43	No LPH
	01/10/92		26.38	318.82	No LPH
	03/12-13/92		22.08	323.12	No LPH
	06/09/92		31.98	313.22	No LPH
	09/28-29/92		30.26	314.94	No LPH
	12/12/92		27.20	318.00	No LPH
	02/02-03/93		20.01	325.19	No LPH
	06/08-09/93		16.80	328.40	No LPH
	09/22-23/93		20.28	324.92	No LPH
	11/17-18/93		21.19	324.01	No LPH
	02/16-17/94		21.61	323.89	No LPH
	05/12-13/94		20.61	324.59	No LPH

TABLE 1-Continued

GROUND WATER LEVEL MEASUREMENTS

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Reference ^a Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Comments
	09/07/94		21.63	323.57	No LPH
	12/02/94		21.12	324.08	No LPH
	03/06/95		19.67	325.53	No LPH
	05/30/95		18.63	326.57	No LPH
	09/06/95		21.02	324.18	No LPH
	11/30/95		21.87	323.33	No LPH
	03/28/96		16.19	329.01	No LPH
	06/25/96		19.92	325.28	No LPH
	09/25/96		21.68	323.52	No LPH
MW-6	03/19/91	342.25	34.42	307.83	No LPH
	06/27/91		35.01	307.24	No LPH
	09/26/91		40.34	301.91	No LPH
	01/10/92		36.20	306.05	No LPH
	03/12-13/92		31.95	310.30	No LPH
	06/09/92		33.22	309.03	No LPH
	09/28-29/92		40.96	301.29	No LPH
	12/12/92		NM	—	NM
	02/02/93		26.51	315.74	No LPH
	06/08/93		22.62	319.63	No LPH
	09/22/93		26.74	315.51	No LPH
	11/17-18/93		28.49	313.76	No LPH
	02/16-17/94		29.83	312.42	No LPH
	05/12-13/94		27.89	314.36	No LPH
	09/07/94		28.81	313.44	No LPH
	12/02/94		28.55	313.70	No LPH
	03/06/95		24.70	317.55	No LPH
	05/30/95		22.03	320.22	No LPH
	09/06/95		26.54	315.71	No LPH
	11/30/95		28.90	313.35	No LPH
	03/28/96		NM	—	—
	06/25/96		22.96	319.29	No LPH
	09/25/96		27.80	314.45	No LPH
MW-7	03/19/91	343.62	24.68	318.94	No LPH
	06/27/91		23.10	320.52	No LPH
	09/26/91		NM	—	NM
	01/10/92		26.98	316.64	No LPH
	03/12-13/92		21.86	321.76	No LPH
	06/09/92		22.32	321.30	No LPH
	09/28-29/92		31.92	311.70	No LPH
	12/12/92		28.80	314.82	No LPH
	02/02-03/93		19.50	324.12	No LPH
	06/08-09/93		16.72	326.90	No LPH

TABLE 1-Continued

GROUND WATER LEVEL MEASUREMENTS

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Reference ^a Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Comments
	09/22-23/93		19.90	323.72	No LPH
	11/17-18/93		20.75	322.87	No LPH
	02/16-17/94		21.36	322.26	No LPH
	05/12-13/94		20.32	323.30	No LPH
	09/07/94		21.19	322.43	No LPH
	12/02/94		20.95	322.67	No LPH
	03/06/95		19.35	324.27	No LPH
	05/30/95		18.19	325.43	No LPH
	09/06/95		20.57	323.05	No LPH
	11/30/95		21.64	321.98	No LPH
	03/28/96		NM	---	---
	06/25/96		19.51	324.11	No LPH
	09/25/96		21.30	322.32	No LPH
MW-8	06/08-09/93	344.00	15.78	328.22	No LPH
	09/22-23/93		18.86	325.14	No LPH
	11/17-18/93		20.01	323.99	No LPH
	02/16-17/94		20.30	323.70	No LPH
	05/12-13/94		18.92	325.08	No LPH
	09/07/94		20.25	323.75	Sheen
	12/02/94		19.73	324.27	No LPH
	03/06/95		17.66	326.34	No LPH
	05/30/95		16.97	327.03	No LPH
	09/06/95		19.30	324.70	No LPH
	11/30/95		20.44	323.56	No LPH
	03/28/96		14.91	329.09	No LPH
	06/25/96		18.10	325.90	No LPH
	09/25/96		20.20	323.80	No LPH
VE-1	09/28/92	343.38	31.92	311.46	No LPH
	06/08/93		16.44	326.94	No LPH
	09/22-23/93		19.47	323.91	No LPH
	11/17-18/93		20.64	322.74	No LPH
	02/16-17/94		21.20	322.18	No LPH
	05/12-13/94		19.69	323.69	No LPH
	09/07/94		21.30	322.08	No LPH
	12/02/94		20.63	322.75	No LPH
	03/06/95		18.40	324.98	No LPH
	05/30/95		17.58	325.80	No LPH
	09/06/95		20.32	323.06	No LPH
	11/30/95		21.75	321.63	No LPH
	03/28/96		15.75	327.63	No LPH
	06/25/96		18.99	324.39	No LPH
	09/25/96		21.32	322.06	No LPH

TABLE 1-Continued

GROUND WATER LEVEL MEASUREMENTS

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

<u>Monitoring Well</u>	<u>Date</u>	<u>Reference^a Elevation (ft)</u>	<u>Depth to Ground Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Comments</u>
VE-2	06/08/93	343.39	16.20	327.19	No LPH
	09/22-23/93		19.23	324.16	No LPH
	11/17-18/93		20.44	322.95	No LPH
	02/16-17/94		20.90	322.49	No LPH
	05/12-13/94		19.41	323.98	No LPH
	09/07/94		20.94	322.45	Sheen
	12/02/94		20.30	323.09	No LPH
	03/06/95		18.14	325.25	No LPH
	05/30/95		17.29	326.10	Sheen
	09/06/95		19.99	323.40	No LPH
	11/30/95		21.33	322.06	No LPH
	03/28/96		15.23	328.16	No LPH
	06/25/96		18.53	324.86	No LPH
	09/25/96		20.96	322.43	No LPH
	VE-3		06/08/93	343.39	16.48
09/22-23/93		18.96	324.43		No LPH
11/17-18/93		20.00	323.39		No LPH
02/16-17/94		21.02	322.37		No LPH
05/12-13/94		20.58	322.81		No LPH
09/07/94		20.35	323.04		No LPH
12/02/94		21.85	321.54		No LPH
03/06/95		19.12	324.27		No LPH
05/30/95		17.37	326.02		No LPH
09/06/95		19.49	323.90		No LPH
11/30/95		20.96	322.43		No LPH
03/28/96		15.68	327.71		No LPH
06/25/96		18.37	325.02		No LPH
09/25/96		20.04	323.35		No LPH

^a Elevation of top of well casing, relative to mean sea level.

^b Liquid-phase petroleum hydrocarbons.

^c Not monitored

TABLE 2

GROUND WATER SAMPLE ANALYTICAL RESULTS

Concentrations in micrograms per liter ($\mu\text{g/L}$)

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b	MTBE ⁿ
MW-1	02/23/90	21	9.2	59	19	3,300	100	NA ^o	NA	NA
	06/15/90	7.9	5.9	32	58	1,300	<50	NA	NA	NA
	08/90	77	280	50	250	2,500	<50	NA	NA	NA
	12/18/90	9.0	2.0	43	400	390	<100	NA	NA	NA
	03/19/91	45	12	240	300	4,500	<100	NA	12.0 ^d	NA
	06/27/91	5.4	2.6	29	34	710	<100	NA	ND ^o	NA
	09/26/91	1.9	<0.5	0.6	0.6	290	<100	NA	ND	NA
	01/10/92	52	15	690	496	5,400	<100	NA	6.1 ^d	NA
	03/12-13/92	87	22	1,200	1,000	1,400	NA	NA	2.1 ^f	NA
									14 ^d	
									1.2 ^g	
									0.5 ^h	
									0.8 ⁱ	
	06/09/92	27	5.9	400	300	4,500	<100	<5,000	ND	NA
	09/28-29/92	<0.5	0.9	<0.5	<0.5	60	NA	<5,000	ND	NA
	12/12/92	53	18	1,100	570	1,400	NA	<5,000	49 ^d	NA
	02/02-03/93	61	27	900	840	10,000	NA	<5,000	2.2 ^f	NA
									19 ^d	
									1.1 ^h	
									2.4 ⁱ	
06/08-09/93	42	32	970	720	7,500	NA	<5,000	1.8 ^d	NA	
								1.0 ^g		
								0.8 ⁱ		
09/22-23/93	36	34	820	540	6,600	NA	<5,000	0.6 ⁱ	NA	
11/17-18/93	24	10	470	300	5,900	NA	NA	ND	NA	
02/16-17/94	42	15	470	330	6,700	NA	NA	ND ^j	NA	
05/12-13/94	26	9.4	400	210	4,000	NA	<5,000	ND ^j	NA	
09/07/94	3.5	2.0	17	18	170	NA	NA	ND	NA	

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
Concentrations in micrograms per liter (µg/L)

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b	MTBE ⁿ
	12/02/94	NS ^k	NS	NS	NS	NS	NS	NS	NS	NA
	03/06/95	9.8	5.2	130	80	1,500	NA	NA	ND	NA
	05/30/95	41	14	480	270	6,200	NA	NA	ND	<50
	09/06/95	8.1	5.7	120	65	1,500	NA	NA	NA	<12
	11/30/95	1.9	0.7	5.3	5.5	77	NA	NA	NA	<5.0
	03/28/96	54	5.8	420	210	6,700	NA	NA	NA	<50
	06/25/96	17	12	110	72	1,600	NA	NA	NA	11
	09/25/96	11	5.1	37	36	500	NA	NA	NA	<5.0
MW-2	02/23/90	3.0	2.0	0.98	6.5	650	8.0	NA	NA	NA
	06/15/90	<0.5	2.6	<0.5	<0.5	670	<50	NA	NA	NA
	08/90	24	130	37	170	1,300	<50	NA	NA	NA
	12/18/90	<0.3	0.5	1.0	3.0	470	<100	NA	NA	NA
	03/19/91	10	3.4	6.1	3.8	700	<100	NA	ND	NA
	06/27/91	8.7	2.1	8.8	33	1,400	<100	NA	ND	NA
	09/26/91	<0.5	0.6	0.6	3.9	300	<100	NA	ND	NA
	01/10/92	9.3	1.0	2.4	3.2	800	<100	NA	ND	NA
	03/12-13/92	<0.5	0.6	0.63	1.0	350	NA	NA	ND	NA
	06/09/92	1.9	2.5	2.51	5.1	150	<100	NA	ND	NA
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	71	NA	NA	ND	NA
	12/12/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
	02/02-03/93	3.9	8.2	21	20	720	NA	NA	NA	NA
	06/08-09/93	0.5	3.3	5.7	2.0	160	NA	NA	NA	NA
	09/22-23/93	0.7	5.6	4.0	2.6	240	NA	NA	NA	NA
	11/17-18/93	1.2	2.3	3.2	1.3	490	NA	NA	NA	NA
	02/16-17/94	<0.5	2.3	1.0	2.0	280	NA	NA	NA	NA
	05/12-13/94	<0.5	0.7	0.6	3.8	100	NA	NA	NA	NA
	09/07/94	<0.5	<0.5	3.8	2.9	410	NA	NA	NA	NA
	12/02/94	<0.5	<0.5	<0.5	<0.5	55	NA	NA	NA	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	190	NA	NA	NA	NA
	05/30/95	0.55	<0.5	<0.5	<0.5	58	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	81	NA	NA	NA	<2.5

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
 Concentrations in micrograms per liter (µg/L)

Exxon Service Station 7-7003
 349 Main Street
 Pleasanton, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b	MTBE ^a
	11/30/95	3.4	<0.5	<0.5	0.85	200	NA	NA	NA	<5.0
	03/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/25/96	1.4	<0.5	<0.5	<0.5	68	NA	NA	NA	<5.0
	09/25/96	<0.5	<0.5	<0.5	<0.5	170	NA	NA	NA	<5.0
MW-3	02/23/90	<0.5	<0.5	<0.5	<0.5	<20	100	NA	NA	NA
	06/15/90	<0.5	<0.5	<0.5	<0.5	200	<50	NA	NA	NA
	08/90	54	380	23	400	3,200	<50	NA	NA	NA
	12/18/90	8.0	12	6.0	24	200	<100	<5,000	4.1 ⁱ	NA
	03/19/91	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA
	06/27/91	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA
	01/10/92	<0.5	<0.5	<0.5	<0.5	<50	<100	5100	ND	NA
	03/12-13/92	<0.5	<0.5	<0.5	<0.5	<50	NA	5000	ND	NA
	06/09/92	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	ND	NA
	12/12/92	<0.5	<0.5	<0.5	1.3	<50	NA	<5,000	NA	NA
	02/02-03/93	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	NA	NA
	06/08-09/93	0.6	0.9	3.4	2.8	<50	NA	<5,000	NA	NA
	09/22/93	<0.5	1.0	1.6	4.4	<50	NA	NA	NA	NA
	11/17-18/93	<0.5	<0.5	<0.5	1.5	<50	NA	NA	NA	NA
	02/16-17/94	1.5	5.3	1.6	9.2	<50	NA	NA	NA	NA
	05/12-13/94	<0.5	0.8	<0.5	2.8	<50	NA	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	12/02/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	05/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	11/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	03/28/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	06/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	09/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
Concentrations in micrograms per liter (µg/L)

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

<u>Monitoring Well</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</u>	<u>Lead</u>	<u>Total Oil and Grease</u>	<u>VOC^b</u>	<u>MTBEⁿ</u>
MW-4	06/15/90	<0.5	<0.5	<0.5	<0.5	<20	<50	NA	NA	NA
	08/90	5.2	5.4	5.4	9.9	120	<50	NA	NA	NA
	12/18/90	7.0	1.0	<0.3	2.0	50	<100	NA	NA	NA
	03/19/91	1.8	0.8	2.2	11	160	<100	NA	ND	NA
	06/27/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	1.0 ^B	NA
	01/10/92	0.9	<0.5	7.6	4.4	98	<100	NA	1.0 ^B	NA
	03/12-13/92	1.2	<0.5	5.3	4.3	82	NA	NA	ND	NA
	06/09/92	0.6	1	<0.5	2.5	<50	<100	NA	0.7 ^B	NA
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA
	12/12/92	1.0	0.9	7.0	11	99	NA	NA	ND	NA
	02/02-03/93	2.3	2.2	6.2	8.4	170	NA	NA	ND	NA
	06/08-09/93	0.7	0.9	0.7	<0.5	<50	NA	NA	0.6 ^B	NA
	09/22-23/93	0.8	2.0	3.1	5.3	59	NA	NA	ND	NA
	11/17-18/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA
	02/16-17/94	8.7	17	4.2	24	98	NA	NA	0.5 ^B	NA
	05/12-13/94	0.8	0.9	0.7	6.1	<50	NA	NA	ND	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA
	12/02/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA
	05/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	11/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
03/28/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	
06/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	
09/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	
MW-5	06/15/90	<0.5	<0.5	<0.5	<0.5	<20	60	NA	NA	NA
	08/90	9.7	12	7.6	17	120	<50	NA	NA	NA
	12/18/90	2.0	3.5	2.0	8.0	50	<100	NA	NA	NA
	03/19/91	<0.5	<0.5	<0.5	<0.5	160	<100	NA	NA	NA

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
 Concentrations in micrograms per liter (µg/L)

Exxon Service Station 7-7003
 349 Main Street
 Pleasanton, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b	MTBE ⁿ
	06/27/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	0.5 ^d	NA
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA
	01/10/92	<0.5	<0.5	<0.5	0.6	98	<100	NA	ND	NA
	03/12-13/92	<0.5	<0.5	<0.5	<0.5	82	NA	NA	ND	NA
	06/09/92	NS	NS	NS	NS	NS	NS	NS	ND	NA
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NS	NA
	12/12/92	0.9	11	0.5	3.1	210	NA	NA	ND	NA
	02/02-03/93	<0.5	2.7	<0.5	0.9	70	NA	NA	NA	NA
	06/08-09/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	09/22-23/93	1.0	<0.5	1.1	2.1	<50	NA	NA	NA	NA
	11/17-18/93	<0.5	<0.5	<0.5	0.9	<50	NA	NA	NA	NA
	02/16-17/94	1.2	4.3	1.4	8.2	<50	NA	NA	NA	NA
	05/12-13/94	1.7	2.3	1.5	9.1	<50	NA	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	12/02/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	05/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	11/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	03/28/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	06/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	09/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
MW-6	03/19/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA
	06/27/91	2.6	1.8	0.8	<0.30	<50	<100	NA	ND	NA
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA
	01/10/92	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA
	03/12-13/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA
	06/09/92	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA
	09/28-29/92	<0.5	<0.5	0.9	0.9	<50	NA	NA	ND	NA
	12/12/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	02/02/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
Concentrations in micrograms per liter (µg/L)

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

<u>Monitoring Well</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</u>	<u>Lead</u>	<u>Total Oil and Grease</u>	<u>VOC^b</u>	<u>MTBE^a</u>
	06/08/93	0.6	0.7	1.7	1.8	<50	NA	NA	NA	NA
	09/22/93	<0.5	<0.5	0.7	1.1	<50	NA	NA	NA	NA
	11/17-18/93	0.6	0.8	1.2	3.9	<50	NA	NA	NA	NA
	02/16-17/94	3.8	7.9	2.0	11	51	NA	NA	NA	NA
	05/12-13/94	0.6	1.0	<0.5	2.7	<50	NA	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	12/02/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	05/30/95	<0.5	0.52	<0.5	<0.5	<50	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	11/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	03/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	09/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
MW-7	03/19/91	<0.5	<0.5	<0.5	<0.5	140	<100	NA	0.7 ^d 0.8 ^l	NA
	06/27/91	5.2	5.6	3.9	16	100	<100	NA	ND	NA
	09/26/91									
	01/10/92	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA
	03/12-13/92	<0.5	<0.5	<0.5	<0.5	120		NA	ND	NA
	06/09/92	<0.5	<0.5	<0.5	<0.5	81	<100	NA	ND	NA
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA
	12/12/92	5.1	6.9	3.3	19	200	NA	NA	NA	NA
	02/02-03/93	<0.5	6.6	0.6	1.7	170	NA	NA	NA	NA
	06/08-09/93	<0.5	0.8	<0.5	<0.5	<50	NA	NA	NA	NA
	09/22-23/93	0.6	0.9	0.7	1.1	<50	NA	NA	NA	NA
	11/17-18/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	02/16-17/94	0.9	2.7	<0.5	3.2	<50	NA	NA	NA	NA
	05/12-13/94	<0.5	1.1	<0.5	1.6	<50	NA	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	12/02/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS

Concentrations in micrograms per liter ($\mu\text{g/L}$)Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b	MTBE ^c
	03/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	05/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	11/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	03/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	09/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
MW-8	06/08-09/93	<0.5	1.1	0.8	1.7	65	NA	NA	NA	NA
	09/22-23/93	4.1	8.9	6.7	14	110	NA	NA	NA	NA
	11/17-18/93	<0.5	0.9	<0.5	<0.5	78	NA	NA	NA	NA
	02/16-17/94	<0.5	1.8	<0.5	<0.5	<50	NA	NA	NA	NA
	05/12-13/94	<0.5	1.0	<0.5	<0.5	<50	NA	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	67	NA	NA	NA	NA
	12/02/94	<0.5	<0.5	<0.5	<0.5	110	NA	NA	NA	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	05/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	11/30/95	<0.5	0.62	<0.5	6.8	<50	NA	NA	NA	<5.0
	03/28/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	06/25/96	<0.5	<0.5	<0.5	<0.5	79	NA	NA	NA	<5.0
	09/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
VE-1	09/28/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
	06/08/93	<5.0	15	830	500	5,800	NA	NA	NA	NA
	09/22-23/93	5.4	21	380	240	3,700	NA	NA	NA	NA
	11/17-18/93	5.8	2.0	220	180	3,600	NA	NA	NA	NA
	02/16-17/94	31	4.0	500	300	7,600	NA	NA	NA	NA
	05/12-13/94	0.7	<0.5	56	33	970	NA	NA	NA	NA
	09/07/94	7.3	46	620	150	8,100	NA	NA	NA	NA
	12/02/94	3.4	37	450	210	8,300	NA	NA	NA	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	52	NA	NA	NA	NA

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
Concentrations in micrograms per liter (µg/L)

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b	MTBE ⁿ
	05/30/95	15	<5.0	270	89	3,400	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	1.6	<0.5	100	NA	NA	NA	<2.5
	11/30/95	48	10	240	35	5,200	NA	NA	NA	<50
	03/28/96	<5.0 ^o	<5.0 ^o	250	81	3,800	NA	NA	NA	<50
	06/25/96	19	<5.0 ^o	140	42	3,800	NA	NA	NA	8
	09/25/96	<0.5	7.0	65	21	2,500	NA	NA	NA	<5.0
VE-2	06/08/93	10	18	900	340	7,000	NA	NA	NA	NA
	09/22-23/93	15	33	240	82	2,600	NA	NA	NA	NA
	11/17-18/93	22	<0.5	220	56	3,500	NA	NA	NA	NA
	02/16-17/94	45	<5.0	220	60	3,400	NA	NA	NA	NA
	05/12-13/94	19	29	66	110	1,900	NA	NA	NA	NA
	09/07/94	5.5	<0.5	9.0	3.0	690	NA	NA	NA	NA
	12/02/94	3.7	21 ^m	50	8.8	1,900	NA	NA	NA	NA
	03/06/95	<0.5	<0.5	9.4	1.3	460	NA	NA	NA	NA
	05/30/95	<1.0	<1.0	20	2.3	580	NA	NA	NA	<5.0
	09/06/95	<1.0	<1.0	<1.0	<1.0	290	NA	NA	NA	12
	11/30/95	13	0.64	2.7	4.1	990	NA	NA	NA	<5.0
	03/28/96	<0.5	<0.5	11	1.1	460	NA	NA	NA	8.2
	06/25/96	31	13	210	87	3400	NA	NA	NA	28
	09/25/96	<0.5	<0.5	<0.5	<0.5	610	NA	NA	NA	11
VE-3	06/08/93	3.1	3.1	18	15	130	NA	NA	NA	NA
	09/22-23/93	11	7.3	13	32	130	NA	NA	NA	NA
	11/17-18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
	02/16-17/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	05/12-13/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	12/02/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
	03/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
	05/30/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5
	09/06/95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5

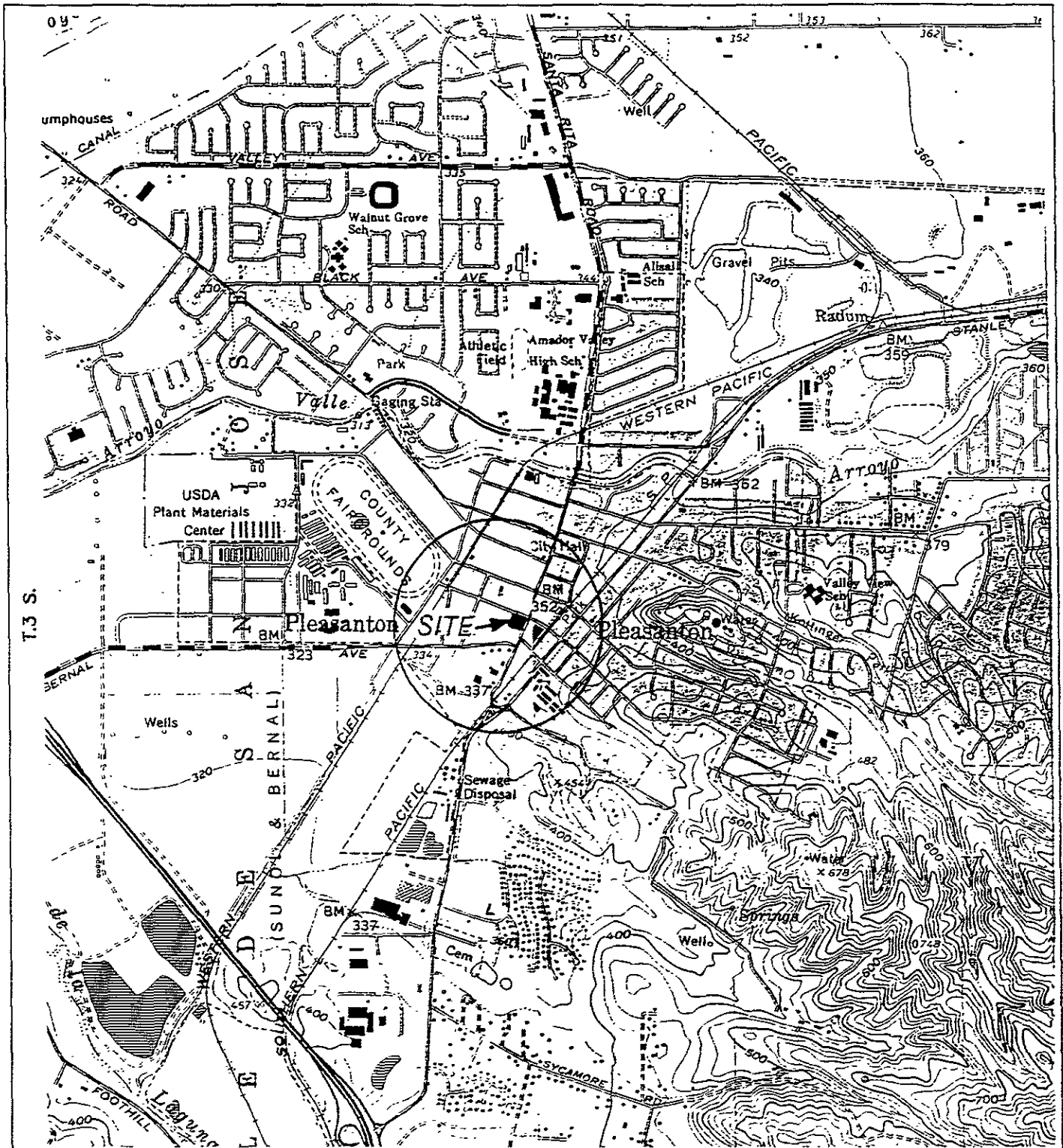
TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
Concentrations in micrograms per liter (µg/L)

Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b	MTBE ⁿ
	11/30/95	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/28/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0
	06/25/96	1.5	0.62	<0.5	<0.5	67	NA	NA	NA	5.1
	09/25/96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0

- ^a Total petroleum hydrocarbons.
- ^b Volatile organic compounds.
- ^c Not analyzed.
- ^d Chloroform.
- ^e Not detected.
- ^f Methylene Chloride.
- ^g 1,2-Dichloroethane.
- ^h Trichloroethane.
- ⁱ Tetrachloroethane.
- ^j Sample was diluted due to the presence of high levels of hydrocarbons.
- ^k Not sampled.
- ^l Bromodichloromethane.
- ^m The present of this compound confirmed by second column; however, the confirmation concentration differed from the reported result by more than a factor of two.
- ⁿ Methyl tertiary butyl ether.
- ^o Elevated detection limit quantified by multiplying laboratory reporting limits by report limit multiplication factor.



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 DUBLIN & LIVERMORE, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



R.1 E



QUADRANGLE LOCATION

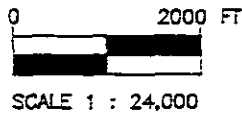
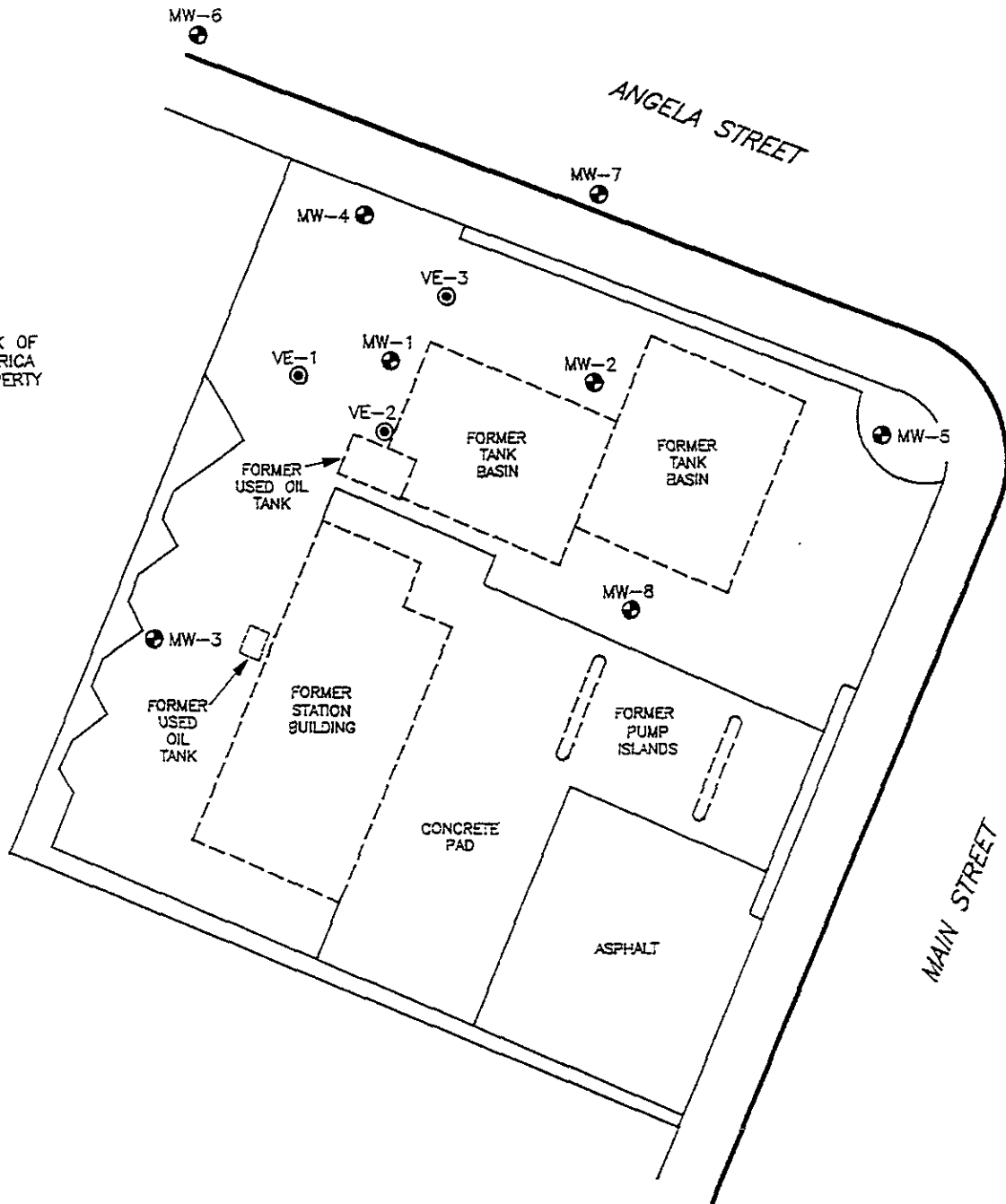


FIGURE 1
 SITE LOCATION MAP
 EXXON STATION NO. 7-7003
 349 MAIN STREET
 PLEASANTON, CA.

PROJECT NO. D094-338	DRAWN BY L.H. 8/24/84
FILE NO. —	PREPARED BY REC
REVISION NO. 1	REVIEWED BY <i>JLB</i> 10/14/94

Delta
 Environmental
 Consultants, Inc.

BANK OF AMERICA PROPERTY




LEGEND:

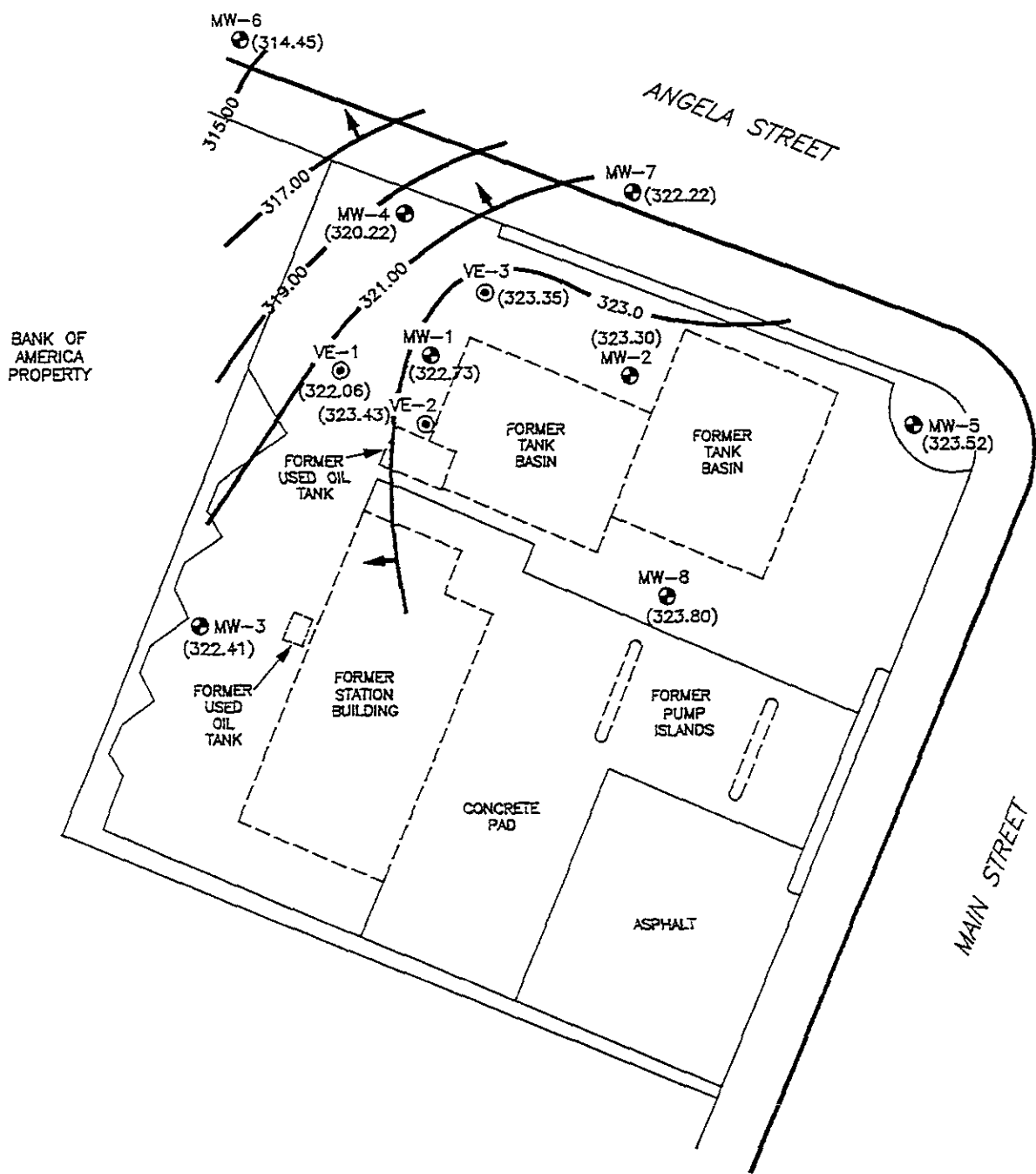
- ⊙ VE-1 VAPOR EXTRACTION WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION



FIGURE 2
SITE MAP
EXXON STATION NO. 7-7003
349 MAIN STREET
PLEASANTON, CA.

PROJECT NO. 0094-838	DRAWN BY L.H. 7/24/96
FILE NO. 94-838-1	PREPARED BY CKA
REVISION NO. 3	REVIEWED BY CJA





- LEGEND:
- ⊙ VE-1 VAPOR EXTRACTION WELL LOCATION
 - MW-1 MONITORING WELL LOCATION
 - (322.32) GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 319.0— INFERRED WATER TABLE CONTOUR IN FEET ABOVE MEAN SEA LEVEL
 - ← GROUND WATER FLOW DIRECTION

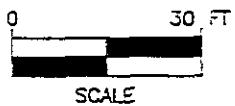
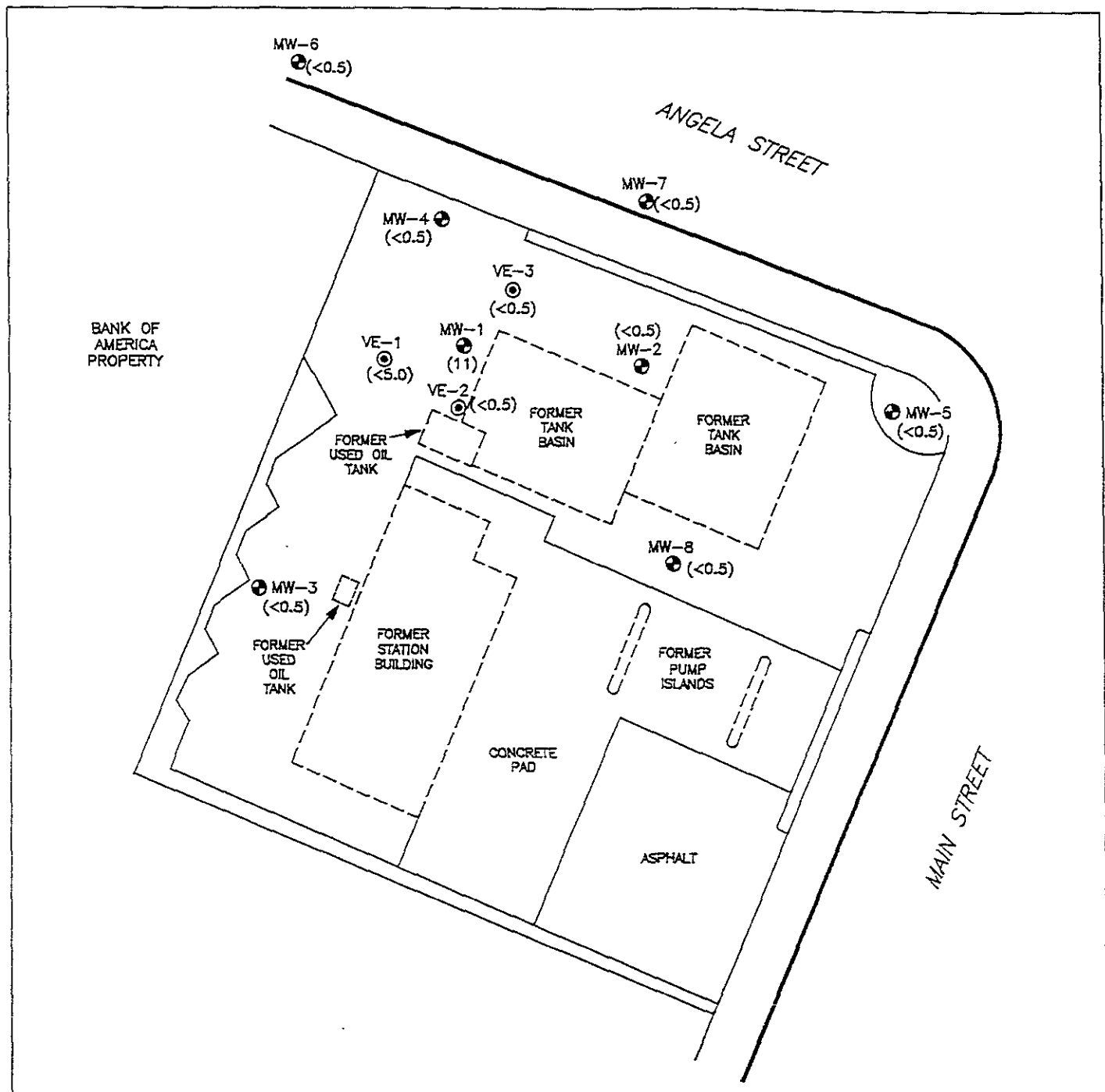


FIGURE 3
WATER TABLE CONTOUR MAP - 9/25/96
EXXON STATION NO. 7-7003
349 MAIN STREET
PLEASANTON, CA.

PROJECT NO. D094-838	DRAWN BY M.L. 11/1/96
FILE NO. 94-838-1	PREPARED BY BIH
REVISION NO. 2	REVIEWED BY CBA

Delta
 Environmental
 Consultants, Inc.



LEGEND:

- ⊙ VE-1 VAPOR EXTRACTION WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- (<0.5) CONCENTRATION OF DISSOLVED BENZENE IN GROUND WATER IN MICROGRAMS PER LITER



FIGURE 4
DISSOLVED BENZENE CONCENTRATION MAP
9/25/96
EXXON STATION NO. 7-7003
349 MAIN STREET
PLEASANTON, CA.

PROJECT NO. 0094-838	DRAWN BY M.L. 11/1/96
FILE NO. 94-838-1	PREPARED BY BIH
REVISION NO. 3	REVIEWED BY <i>CLT</i>



ENCLOSURE A

Field Methods and Procedures

FIELD METHODS AND PROCEDURES

1.0 GROUND WATER AND LIQUID-PHASE PETROLEUM HYDROCARBON ASSESSMENT

A water/petroleum interface probe was used to assess the thickness of liquid-phase petroleum hydrocarbons (LPH), if present, and a water level indicator was used to assess ground water depth in monitoring wells that do not contain LPH. Depth to ground water was measured from the top of each monitoring well casing. The tip of the water level indicator was subjectively analyzed for LPH sheen. All measurements and physical observations were then recorded in the field.

2.0 SUBJECTIVE ANALYSIS OF GROUND WATER

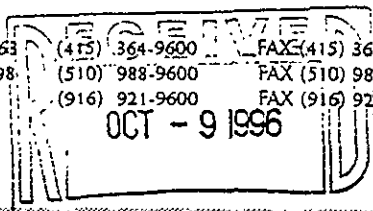
Prior to purging, a water sample was collected from the monitoring well for subjective assessment. The sample was retrieved by gently lowering a clean, disposal bailer to approximately one-half the bailer length past the air/liquid interface. The bailer was then retrieved and the sample contained within the bailer was examined for floating LPH and the appearance of a petroleum sheen.

3.0 MONITORING WELL PURGING AND SAMPLING

Monitoring wells were purged using a submersible pump or bailer until pH, temperature, and conductivity of the purge water had stabilized and a minimum of three to four well volumes of water had been removed. Ground water removed from the wells was stored in 55-gallon barrels at the site. The barrels were labeled with corresponding monitoring well numbers and the date of purging. After purging, ground water levels were allowed to stabilize. A ground water sample was then removed from each of the wells using a disposal bailer. If the well was purged dry, it was allowed to sufficiently recharge and a sample was collected. Samples were collected in air-tight vials, appropriately labeled, and stored on ice from the time of collection through the time of delivery to the laboratory. A chain-of-custody form was completed to document possession of the samples. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses. Purge water will be collected from the storage barrels in a vacuum truck and transported to an appropriate facility for treatment and/or disposal.

ENCLOSURE B

Laboratory Analytical Report



Delta Environmental Consultants 3164 Gold Camp Dr., Suite 200 Rancho Cordova, CA 95670 Attention: C. Keoni Almeida	Client Project ID: Exxon #7-7003, Pleasanton, CA Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 609-1221	Sampled: Sep 25, 1996 Received: Sep 26, 1996 Reported: Oct 4, 1996
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 609-1221 MW-7	Sample I.D. 609-1222 MW-6	Sample I.D. 609-1223 VE-3	Sample I.D. 609-1224 VE-2	Sample I.D. 609-1225 VE-1	Sample I.D. 609-1226 MW-1
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	610	2,500	500
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	11
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	7.0	5.1
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	65	37
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	21	36
Chromatogram Pattern:		--	--	--	Weathered Gasoline C6-C12	Gasoline C6-C12	Gasoline C6-C12

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96	09/30/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery, %: (QC Limits = 60-140%)	94	95	95	*	125	96

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected at or above the reporting limit.
*Matrix interference.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Linda C. Schneider
Project Manager/Sacramento Laboratory



Delta Environmental Consultants 3164 Gold Camp Dr., Suite 200 Rancho Cordova, CA 95670 Attention: C. Keoni Almeida	Client Project ID: Exxon #7-7003, Pleasanton, CA Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 609-1227	Sampled: Sep 25, 1996 Received: Sep 26, 1996 Reported: Oct 4, 1996
---	---	--

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 609-1227 MW-4	Sample I.D. 609-1228 MW-8	Sample I.D. 609-1229 MW-2	Sample I.D. 609-1230 MW-5	Sample I.D. 609-1231 MW-3
Purgeable Hydrocarbons	50	N.D.	N.D.	170	N.D.	N.D.
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		--	--	Gasoline C6-C12	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery, %: (QC Limits = 60-140%)	124	97	124	95	100

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

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Linda C. Schneider
Project Manager/Sacramento Laboratory





Delta Environmental Consultants 3164 Gold Camp Dr., Suite 200 Rancho Cordova, CA 95670 Attention: C. Keoni Almeida	Client Project ID: Exxon #7-7003, Pleasanton, CA Sample Matrix: Water Analysis Method: EPA 5030/8020 Modified First Sample #: 609-1221	Sampled: Sep 25, 1996 Received: Sep 26, 1996 Reported: Oct 4, 1996
---	---	--

Methyl Tertiary Butyl Ether (MTBE)

Analyte	Reporting Limit µg/L	Sample I.D. 609-1221 MW-7	Sample I.D. 609-1222 MW-6	Sample I.D. 609-1223 VE-3	Sample I.D. 609-1224 VE-2	Sample I.D. 609-1225 VE-1	Sample I.D. 609-1226 MW-1
MTBE	5.0	N.D.	N.D.	N.D.	11	N.D.	N.D.

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96	09/30/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery: (QC Limits = 70-130%)	94	95	95	*	125	96

Analytes reported as N.D. were not detected at or above the reporting limit.

*Matrix interference.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Linda C. Schneider
Project Manager/Sacramento Laboratory





Delta Environmental Consultants 3164 Gold Camp Dr., Suite 200 Rancho Cordova, CA 95670 Attention: C. Keoni Almeida	Client Project ID: Exxon #7-7003, Pleasanton, CA Sample Matrix: Water Analysis Method: EPA 5030/8020 Modified First Sample #: 609-1227	Sampled: Sep 25, 1996 Received: Sep 26, 1996 Reported: Oct 4, 1996
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Methyl Tertiary Butyl Ether (MTBE)

Analyte	Reporting Limit µg/L	Sample I.D. 609-1227 MW-4	Sample I.D. 609-1228 MW-8	Sample I.D. 609-1229 MW-2	Sample I.D. 609-1230 MW-5	Sample I.D. 609-1231 MW-3
MTBE	5.0	N.D.	N.D.	N.D.	N.D.	N.D.

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery: (QC Limits = 70-130%)	124	97	124	95	100

Analytes reported as N.D. were not detected at or above the reporting limit.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Linda C. Schneider
Project Manager/Sacramento Laboratory





Delta Environmental Consultants Client Project ID: Exxon #7-7003, Pleasanton, CA
3164 Gold Camp Dr., Suite 200 Matrix: Water
Rancho Cordova, CA 95670
Attention: C. Keoni Almeida QC Sample Group 6091221-31 Reported: Oct 4, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- Benzene	Xylenes
	Method:	EPA 8020	EPA 8020	EPA 8020
Analyst:	B. Williams	B. Williams	B. Williams	B. Williams
Concentration Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#:	LCS093096	LCS093096	LCS093096	LCS093096
Date Prepared:	09/30/96	09/30/96	09/30/96	09/30/96
Date Analyzed:	09/30/96	09/30/96	09/30/96	09/30/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
LCS % Recovery:	103	105	105	102
Control Limits:	70-130	70-130	70-130	70-130

MS/MSD Batch #:	6090872	6090872	6090872	6090872
Date Prepared:	09/30/96	09/30/96	09/30/96	09/30/96
Date Analyzed:	09/30/96	09/30/96	09/30/96	09/30/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Matrix Spike % Recovery:	99	100	101	100
Matrix Spike Duplicate % Recovery:	107	109	108	105
Relative % Difference:	7.8	8.6	6.7	4.9

SEQUOIA ANALYTICAL

Linda C. Schneider
Linda C. Schneider
Project Manager/Sacramento Laboratory

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.





Delta Environmental Consultants
3164 Gold Camp Dr., Suite 200
Rancho Cordova, CA 95670
Attention: C. Keoni Almeida

Client Project ID: Exxon #7-7003, Pleasanton, CA
Matrix: Water

QC Sample Group 6091221-31

Reported: Oct 4, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Ethyl-			
	Benzene	Toluene	Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	B. Williams	B. Williams	B. Williams	B. Williams
Concentration Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#:	LCS010016	LCS010016	LCS010016	LCS010016
Date Prepared:	10/01/96	10/01/96	10/01/96	10/01/96
Date Analyzed:	10/01/96	10/01/96	10/01/96	10/01/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
LCS % Recovery:	101	103	104	104
Control Limits:	70-130	70-130	70-130	70-130

MS/MSD Batch #:	6091222	6091222	6091222	6091222
Date Prepared:	10/01/96	10/01/96	10/01/96	10/01/96
Date Analyzed:	10/01/96	10/01/96	10/01/96	10/01/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Matrix Spike % Recovery:	95	95	96	97
Matrix Spike Duplicate % Recovery:	97	99	97	97
Relative % Difference:	2.1	4.1	1.0	0.0

SEQUOIA ANALYTICAL

Linda C. Schneider
Linda C. Schneider
Project Manager/Sacramento Laboratory

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.





Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: <u>Delta Environmental Consultants</u>		Page <u>1</u> of <u>3</u>
Address: <u>3164 GOLD CAMP DR. Rancho</u>		Site Location: <u>Pleasanton</u>
Project #:	Consultant Project #: <u>D094-838</u>	Consultant Work Release #: <u>19432529</u>
Project Contact: <u>Keoni Almeida</u>	Phone #: <u>638-7085</u>	Laboratory Work Release #:
EXXON Contact: <u>Marla Guenster</u>	Phone #:	EXXON RAS #: <u>7-7003</u>
Sampled by (print): <u>Jay Stoops</u>	Sampler's Signature: <u>[Signature]</u>	
Shipment Method: <u>Saguovia</u>	Air Bill #:	

TAT: <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> 96 hr <input checked="" type="checkbox"/> Standard (10 day)							ANALYSIS REQUIRED					
Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE	Temperature: _____	
											Inbound Seal: Yes No Outbound Seal: Yes No	
<u>MW-7</u>	<u>9-25-96</u>	<u>1030</u>	<u>H₂O</u>	<u>HCL</u>	<u>3</u>	<u>5609-1221</u>	<u>X</u>			<u>X</u>		
<u>MW-6</u>		<u>1040</u>				<u>1222</u>						
<u>VE-3</u>		<u>1130</u>				<u>1223</u>						
<u>VE-2</u>		<u>1140</u>				<u>1224</u>						
<u>VE-1</u>		<u>1200</u>				<u>1225</u>						
<u>MW-1</u>		<u>1205</u>				<u>1226</u>						
<u>MW-4</u>		<u>1230</u>				<u>1227</u>						
<u>MW-8</u>		<u>1250</u>				<u>1228</u>						
<u>MW-2</u>		<u>1315</u>				<u>1229</u>						

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>[Signature] / R.H.A.</u>	<u>9/26/96</u>	<u>1445</u>	<u>John Yowell / sequoia</u>	<u>9/26/96</u>	<u>1445</u>	
<u>John Yowell / sequoia</u>	<u>9/26/96</u>	<u>1515</u>				
			<u>Sandi Hansen / sequoia</u>	<u>9/26/96</u>	<u>1515</u>	

Pink - Client

Yellow - Sequoia

White - Sequoia



Sequoia Analytical
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Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: <u>Delta Environmental Consultants</u>		Site Location: <u>Pleasanton</u>
Address: <u>3164 Gold Camp Dr. Rancho</u>		Consultant Work Release #: <u>19458527</u>
Project #:	Consultant Project #: <u>DOY-838</u>	Laboratory Work Release #:
Project Contact: <u>Kroni Almeida</u>	Phone #: <u>638-2085</u>	EXXON RAS #: <u>7-7008</u>
EXXON Contact: <u>Marla Guensler</u>	Phone #:	
Sampled by (print): <u>Jay Steaps</u>	Sampler's Signature: <i>[Signature]</i>	
Shipment Method: <u>Sequoia</u>	Air Bill #:	

TAT: <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> 96 hr <input checked="" type="checkbox"/> Standard (10 day)	ANALYSIS REQUIRED
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Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE	Temperature: _____	Inbound Seal: Yes No Outbound Seal: Yes No
<u>MW-5</u>	<u>9-25-96</u>	<u>1330</u>	<u>H2O</u>	<u>Hel</u>	<u>3</u>	<u>5609-1230</u>	<u>X</u>			<u>X</u>		
<u>MW-3</u>	<u>↓</u>	<u>1340</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1231</u>	<u>↓</u>			<u>↓</u>		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<i>[Signature]</i>	<u>9/26/96</u>	<u>1445</u>	<u>John Yowell / Sequoia</u>	<u>9/26/96</u>	<u>1445</u>	
<u>John Yowell / Sequoia</u>	<u>9/26/96</u>	<u>1515</u>	<u>Sundi Hansen / Sequoia</u>	<u>9/26/96</u>	<u>1515</u>	

Pink - Client
Yellow - Sequoia
White - Sequoia