



P.O. BOX 4032 • CONCORD, CA 94524-2032
MARKETING DEPARTMENT

FUEL PRODUCTS • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
SENIOR ENGINEER
(510) 246-8776
(510) 246-8798 FAX

November 3, 1994

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

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

Dear Mr. Arigalia:

Attached for your review and comment is a letter report regarding *Quarterly Ground Water Monitoring, Third Quarter 1994*, for the above referenced site. This report, prepared by Delta Environmental Consultants of Rancho Cordova, California, details the results of the September 1994 groundwater monitoring events.

If you have any questions or comments, please contact me at (510) 246-8776. }

Sincerely,

Marla D. Guensler
Senior Engineer

MDG/mdg

3004P-
11/11/94
MDG

enclosure: Delta Report dated October 14, 1994

cc: w/enclosure:

Mr. Jerry Killingstad - Alameda County Flood Control and Water Conservation District
Mr. Steve Cusenza - Pleasanton Fire Department

w/o enclosure:

Mr. Rich Chandler - Delta Environmental Consultants, Inc.



3330 Data Drive
Suite 100
Rancho Cordova, CA 95670
916/638-2085
FAX. 916/638-8385

October 14, 1994

Ms. Marla Guensler
Exxon Company, U.S.A.
Post Office Box 4032
Concord, California 94524-2032

Subject: *Quarterly Ground Water Monitoring Report, Third Quarter 1994*
Exxon Retail 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 Retail 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 7, 1994. 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 each of the eight ground water monitoring wells and three vapor extraction wells at the site on September 7, 1994. Depths to ground water in the monitoring wells ranged from 20.25 to 28.81 feet below the tops of the well casings. Ground water table elevations have increased approximately 1 foot since the previous monitoring event in May 1994. Ground water table measurements are presented in Table 1. A water table contour map constructed from the ground water elevations recorded on September 7, 1994, is included as Figure 3. The water table contours illustrated in Figure 3 indicate that ground water flowed toward the northwest with a hydraulic gradient of approximately 0.01 across the central portion of the site; however, the hydraulic gradient increased to approximately 0.16 at the northwest corner of the site.

Subjective Analysis

No liquid-phase petroleum hydrocarbons were present in the wells during the September 1994 site visit; however, hydrocarbons sheens were observed on purge water from monitoring well MW-8 and vapor extraction well VE-2.

Analytical Results

Ground water samples collected from each of the eight monitoring wells and vapor extraction wells on September 7, 1994, were submitted to a California-certified laboratory for analysis of benzene, toluene, ethylbenzene, total xylenes, and total petroleum hydrocarbons (TPH) as gasoline. In addition, ground water samples collected from monitoring wells MW-1 and MW-4 were analyzed for volatile organic compounds (VOCs). Sampling information sheets are presented in Enclosure B. Analytical test results are summarized in Table 2, and copies of the laboratory analytical reports are presented in Enclosure C.

Analytical test results indicate that ground water samples collected from wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and VE-3 did not contain detectable concentrations of petroleum hydrocarbons. Benzene was present in ground water samples collected from wells MW-1, VE-1, and VE-2 at concentrations ranging from 3.5 micrograms per liter ($\mu\text{g/L}$) (MW-1) to 7.3 $\mu\text{g/L}$ (VE-1). Ground water samples collected from wells MW-1, MW-8, VE-1, and VE-2 contained TPH as gasoline at concentrations ranging from 67 $\mu\text{g/L}$ (MW-8) to 8,100 $\mu\text{g/L}$ (MW-1). VOCs were not present in detectable concentrations in the ground water samples collected from monitoring wells MW-1 and MW-4. A dissolved benzene concentration map is presented in Figure 4.

Future Work

The next quarterly monitoring event for this site is scheduled for November 1994. Delta is currently evaluating pilot test results and assessing remedial options for the site.

Remarks/Signatures

The interpretations contained in this report 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 report 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 Guensler
Exxon Company, U.S.A.
October 14, 1994
Page 3

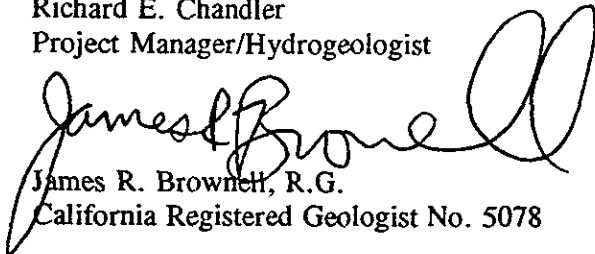
If you have any questions regarding this project, please contact Rich Chandler at (916) 638-2085.

Sincerely,

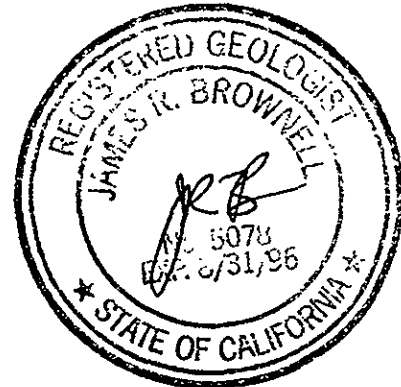
DELTA ENVIRONMENTAL CONSULTANTS, INC.



Richard E. Chandler
Project Manager/Hydrogeologist



James R. Brownell, R.G.
California Registered Geologist No. 5078



REC (LRP457.TA)
Enclosures

TABLE 1

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>
MW-1	02/23/90	343.83	26.08	317.75	No LPH ^b
	06/15/90		26.49	317.34	No LPH
	08/90		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
	MW-2		02/23/90	344.22	26.31
06/15/90		26.25	317.97		No LPH
08/90		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
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

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* Elevation (ft)</u>	<u>Depth to Ground Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Comments</u>
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
	MW-4		06/15/90	343.38	30.94
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

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* Elevation (ft)</u>	<u>Depth to Ground Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Comments</u>		
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 ^d	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		
	09/07/94		21.63	323.57	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		

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* Elevation (ft)</u>	<u>Depth to Ground Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Comments</u>
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
	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
	MW-8		06/08-09/93	344.00	15.78
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
VE-1	09/28/92	343.38	31.92	311.46 ^d	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
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

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-3	06/08/93	343.39	16.48	326.91	No LPH
	09/22-23/93		18.96	324.43	No LPH
	11/17-18/93		20.00	323.39 ^d	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

- ^a Elevation of top of well casing, relative to mean sea level.
- ^b Liquid-phase petroleum hydrocarbons.
- ^c Not monitored.
- ^d Not sampled.

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

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

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	Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b
MW-2	02/23/90	3.0	2.0	0.98	6.5	650	8.0	NA	NA
	06/15/90	<0.5	2.6	<0.5	<0.5	670	<50	NA	NA
	08/90	24	130	37	170	1,300	<50	NA	NA
	12/18/90	<0.3	0.5	1.0	3.0	470	<100	NA	NA
	03/19/91	10	3.4	6.1	3.8	700	<100	NA	ND
	06/27/91	8.7	2.1	8.8	33	1,400	<100	NA	ND
	09/26/91	<0.5	0.6	0.6	3.9	300	<100	NA	ND
	01/10/92	9.3	1.0	2.4	3.2	800	<100	NA	ND
	03/12-13/92	<0.5	0.6	0.63	1.0	350	NA	NA	ND
	06/09/92	1.9	2.5	2.51	5.1	150	<100	NA	ND
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	71	NA	NA	ND
	12/12/92								
	02/02-03/93	3.9	8.2	21	20	720	NA	NA	NA
	06/08-09/93	0.5	3.3	5.7	2.0	160	NA	NA	NA
	09/22-23/93	0.7	5.6	4.0	2.6	240	NA	NA	NA
	11/17-18/93	1.2	2.3	3.2	1.3	490	NA	NA	NA
	02/16-17/94	<0.5	2.3	1.0	2.0	280	NA	NA	NA
	05/12-13/94	<0.5	0.7	0.6	3.8	100	NA	NA	NA
	09/07/94	<0.5	<0.5	3.8	2.9	410	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

<u>Monitoring Well</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>	<u>TPH* as gasoline</u>	<u>Lead</u>	<u>Total Oil and Grease</u>	<u>VOC^b</u>
MW-3	02/23/90	<0.5	<0.5	<0.5	<0.5	<20	100	NA	NA
	06/15/90	<0.5	<0.5	<0.5	<0.5	200	<50	NA	NA
	08/90	54	380	23	400	3,200	<50	NA	NA
	12/18/90	8.0	12	6.0	24	200	<100	<5,000	4.1 ⁱ
	03/19/91	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND
	06/27/91	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND
	01/10/92	<0.5	<0.5	<0.5	<0.5	<50	<100	5,100	ND
	03/12-13/92	<0.5	<0.5	<0.5	<0.5	<50	NA	5,000	ND
	06/09/92	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	ND
	12/12/92	<0.5	<0.5	<0.5	1.3	<50	NA	<5,000	NA
	02/02-03/93	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	NA
	06/08-09/93	0.6	0.9	3.4	2.8	<50	NA	<5,000	NA
	09/22/93	<0.5	1.0	1.6	4.4	<50	NA	NA	NA
	11/17-18/93	<0.5	<0.5	<0.5	1.5	<50	NA	NA	NA
	02/16-17/94	1.5	5.3	1.6	9.2	<50	NA	NA	NA
	05/12-13/94	<0.5	0.8	<0.5	2.8	<50	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	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	Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b
MW-4	06/15/90	<0.5	<0.5	<0.5	<0.5	<20	<50	NA	NA
	08/90	5.2	5.4	5.4	9.9	120	<50	NA	NA
	12/18/90	7.0	1.0	<0.3	2.0	50	<100	NA	NA
	03/19/91	1.8	0.8	2.2	11	160	<100	NA	ND
	06/27/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	1.0 ^c
	01/10/92	0.9	<0.5	7.6	4.4	98	<100	NA	1.0 ^c
	03/12-13/92	1.2	<0.5	5.3	4.3	82	NA	NA	ND
	06/09/92	0.6	1.0	<0.5	2.5	<50	<100	NA	0.7 ^c
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND
	12/12/92	1.0	0.9	7.0	11	99	NA	NA	ND
	02/02-03/93	2.3	2.2	6.2	8.4	170	NA	NA	ND
	06/08-09/93	0.7	0.9	0.7	<0.5	<50	NA	NA	0.6 ^c
	09/22-23/93	0.8	2.0	3.1	5.3	59	NA	NA	ND
	11/17-18/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND
	02/16-17/94	8.7	17	4.2	24	98	NA	NA	0.5 ^c
	05/12-13/94	0.8	0.9	0.7	6.1	<50	NA	NA	ND
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND

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	Xylenes	TPH* as gasoline	Lead	Total Oil and Grease	VOC ^b
MW-5	06/15/90	<0.5	<0.5	<0.5	<0.5	<20	60	NA	NA
	08/90	9.7	12	7.6	17	120	<50	NA	NA
	12/18/90	2.0	3.5	2.0	8.0	50	<100	NA	NA
	03/19/91	<0.5	<0.5	<0.5	<0.5	160	<100	NA	0.5 ^d
	06/27/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	01/10/92	<0.5	<0.5	<0.5	0.6	98	<100	NA	ND
	03/12-13/92	<0.5	<0.5	<0.5	<0.5	82	NA	NA	ND
	06/09/92								
	09/28-29/92	NR	<0.5	<0.5	<0.5	<50	NA	NA	ND
	12/12/92	0.9	11	0.5	3.1	210	NA	NA	NA
	02/02-03/93	<0.5	2.7	<0.5	0.9	70	NA	NA	NA
	06/08-09/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA
	09/22-23/93	1.0	<0.5	1.1	2.1	<50	NA	NA	NA
	11/17-18/93	<0.5	<0.5	<0.5	0.9	<50	NA	NA	NA
	02/16-17/94	1.2	4.3	1.4	8.2	<50	NA	NA	NA
	05/12-13/94	1.7	2.3	1.5	9.1	<50	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	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

<u>Monitoring Well</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>	<u>TPH^a as gasoline</u>	<u>Lead</u>	<u>Total Oil and Grease</u>	<u>VOC^b</u>
MW-6	03/19/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	06/27/91	2.6	1.8	0.8	<0.30	<50	<100	NA	ND
	09/26/91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	01/10/92	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	03/12-13/92	<0.5	<0.5	NR	NR	<50	NA	NA	ND
	06/09/92	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	09/28-29/92	<0.5	<0.5	0.9	0.9	<50	NA	NA	ND
	12/12/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA
	02/02/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA
	06/08/93	0.6	0.7	1.7	1.8	<50	NA	NA	NA
	09/22/93	<0.5	<0.5	0.7	1.1	<50	NA	NA	NA
	11/17-18/93	0.6	0.8	1.2	3.9	<50	NA	NA	NA
	02/16-17/94	3.8	7.9	2.0	11	51	NA	NA	NA
	05/12-13/94	0.6	1.0	<0.5	2.7	<50	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	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	Xylenes	TPH* as gasoline	Lead	Total Oil and Grease	VOC ^b
MW-7	03/19/91	<0.5	<0.5	<0.5	<0.5	140	<100	NA	0.7 ^d 0.8 ^l
	06/27/91	5.2	5.6	3.9	16	100	<100	NA	ND
	09/26/91								
	01/10/92	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND
	03/12-13/92	<0.5	<0.5	<0.5	<0.5	120		NA	ND
	06/09/92	<0.5	<0.5	<0.5	<0.5	81	<100	NA	ND
	09/28-29/92	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND
	12/12/92	5.1	6.9	3.3	19	200	NA	NA	NA
	02/02-03/93	<0.5	6.6	0.6	1.7	170	NA	NA	NA
	06/08-09/93	<0.5	0.8	<0.5	<0.5	<50	NA	NA	NA
	09/22-23/93	0.6	0.9	0.7	1.1	<50	NA	NA	NA
	11/17-18/93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA
	02/16-17/94	0.9	2.7	<0.5	3.2	<50	NA	NA	NA
	05/12-13/94	<0.5	1.1	<0.5	1.6	<50	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA
	MW-8	06/08-09/93	<0.5	1.1	0.8	1.7	65	NA	NA
09/22-23/93		4.1	8.9	6.7	14	110	NA	NA	NA
11/17-18/93		<0.5	0.9	<0.5	<0.5	78	NA	NA	NA
02/16-17/94		<0.5	1.8	<0.5	<0.5	<50	NA	NA	NA
05/12-13/94		<0.5	1.0	<0.5	<0.5	<50	NA	NA	NA
09/07/94		<0.5	<0.5	<0.5	<0.5	67	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	Xylenes	TPH* as gasoline	Lead	Total Oil and Grease	VOC ^b
VE-1	09/28/92								
	06/08/93	<5.0	15	830	500	5,800	NA	NA	NA
	09/22-23/93	5.4	21	380	240	3,700	NA	NA	NA
	11/17-18/93	5.8	2.0	220	180	3,600	NA	NA	NA
	02/16-17/94	31	4.0	500	300	7,600	NA	NA	NA
	05/12-13/94	0.7	<0.5	56	33	970	NA	NA	NA
	09/07/94	7.3	46	620	150	8,100	NA	NA	NA
VE-2	06/08/93	10	18	900	340	7,000	NA	NA	NA
	09/22-23/93	15	33	240	82	2,600	NA	NA	NA
	11/17-18/93	22	<0.5	220	56	3,500	NA	NA	NA
	02/16-17/94	45	<5.0	220	60	3,400	NA	NA	NA
	05/12-13/94	19	29	66	110	1,900	NA	NA	NA
	09/07/94	5.5	<0.5	9.0	3.0	690	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	Xylenes	TPH ^a as gasoline	Lead	Total Oil and Grease	VOC ^b
VE-3	06/08/93	3.1	3.1	18	15	130	NA	NA	NA
	09/22-23/93	11	7.3	13	32	130	NA	NA	NA
	11/17-18/93								
	02/16-17/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA
	05/12-13/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA
	09/07/94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA

^a Total petroleum hydrocarbons.

^b Volatile organic compounds.

^c Not analyzed.

^d Chloroform.

^e Not detected.

^f Methylene Chloride.

^g 1,2-Dichloroethane.

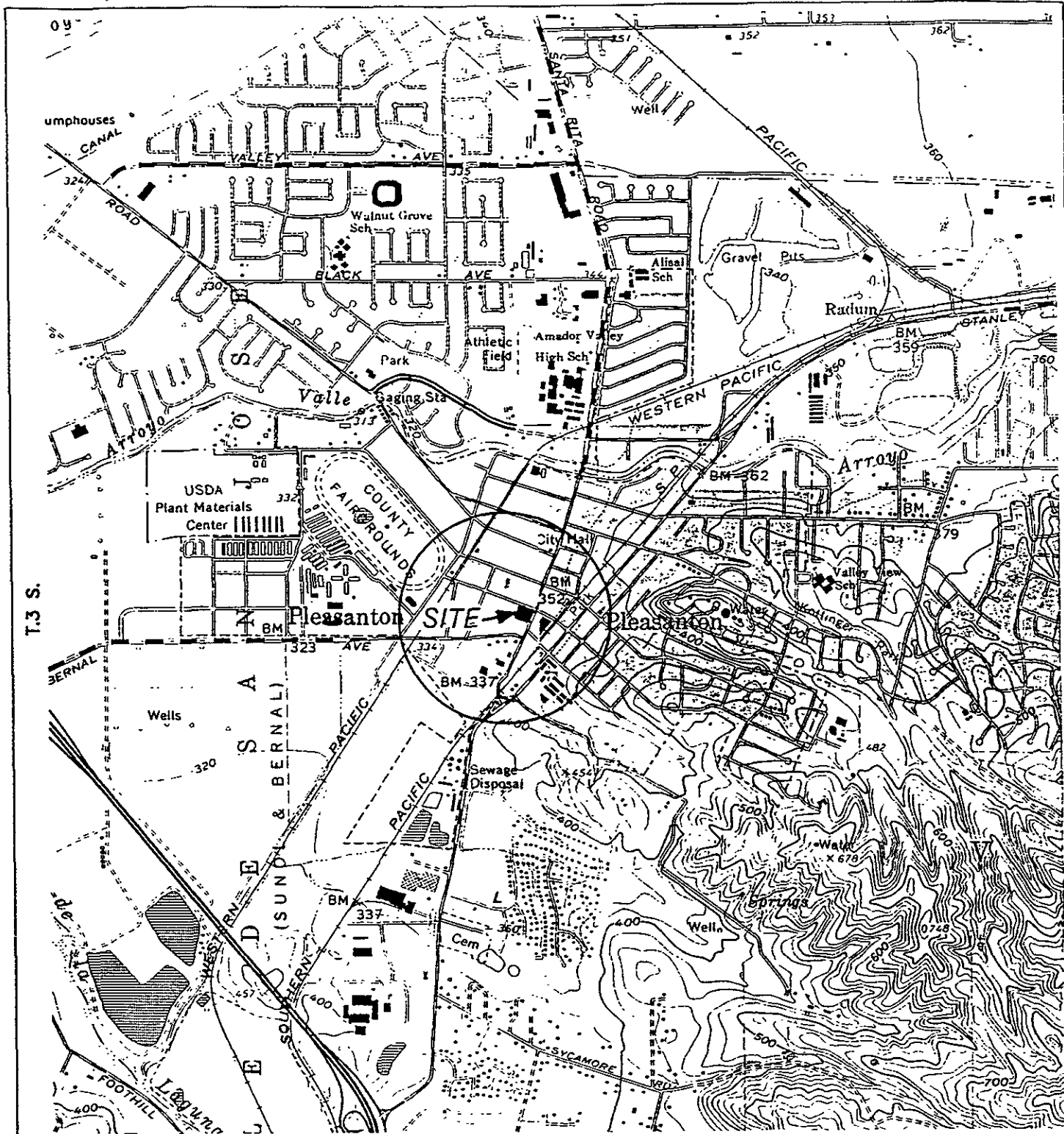
^h Trichloroethene.

ⁱ Tetrachloroethene.

^j Analyzed for total petroleum hydrocarbons as diesel using EPA method 3510/8015.

^k Sample was diluted due to the presence of high levels of hydrocarbons.

^l Bromodichloromethane.



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



R.1 E.

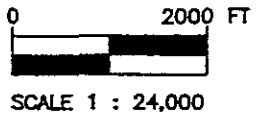
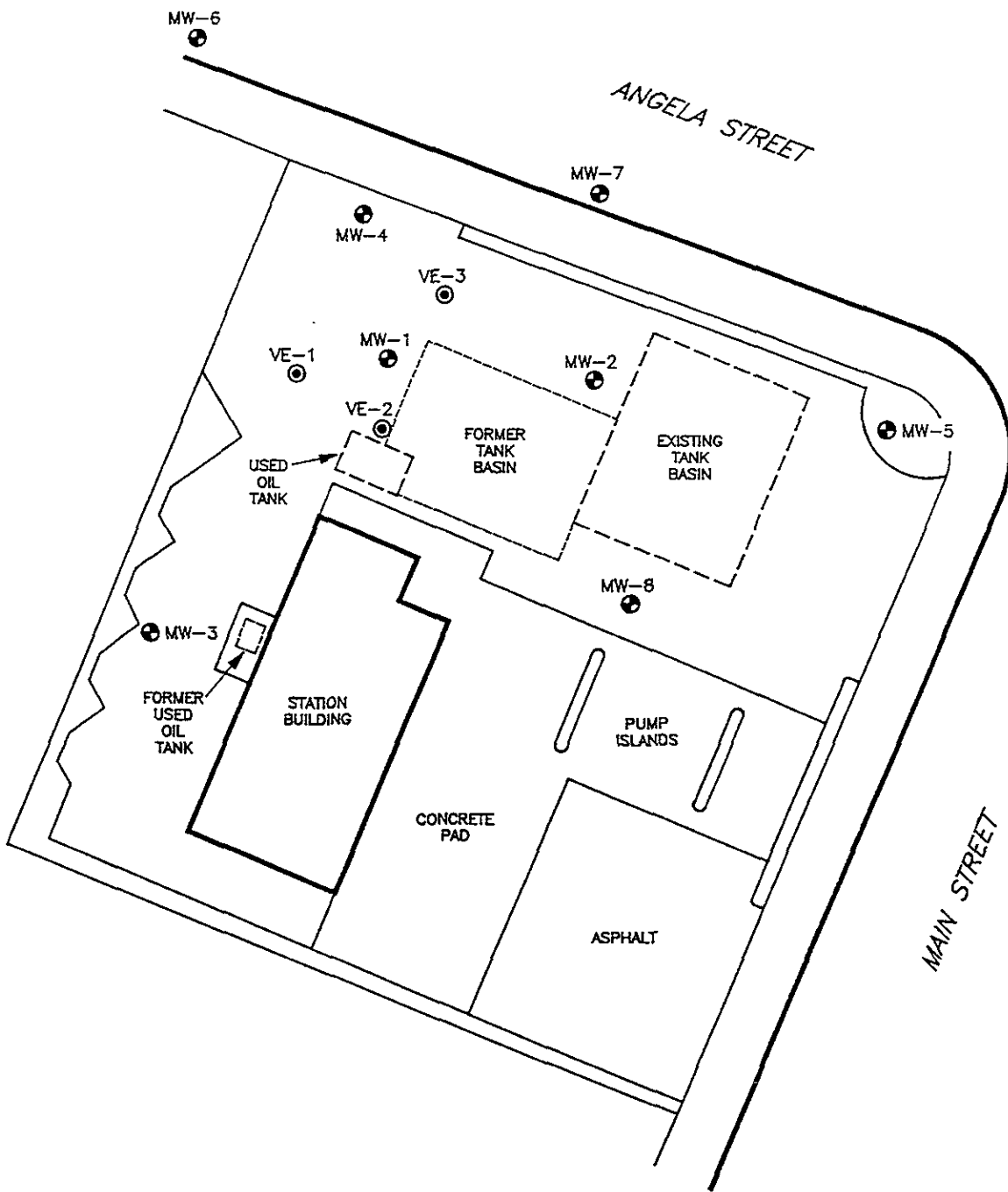


FIGURE 1
SITE LOCATION MAP
 EXXON STATION NO. 7-7003
 349 MAIN STREET
 PLEASANTON, CA.

PROJECT NO. D094-838	DRAWN BY LH. 8/24/84
FILE NO.	PREPARED BY REC
REVISION NO. 1	REVIEWED BY <i>[Signature]</i> 10/14/84

**Delta
Environmental
Consultants, Inc.**



LEGEND:

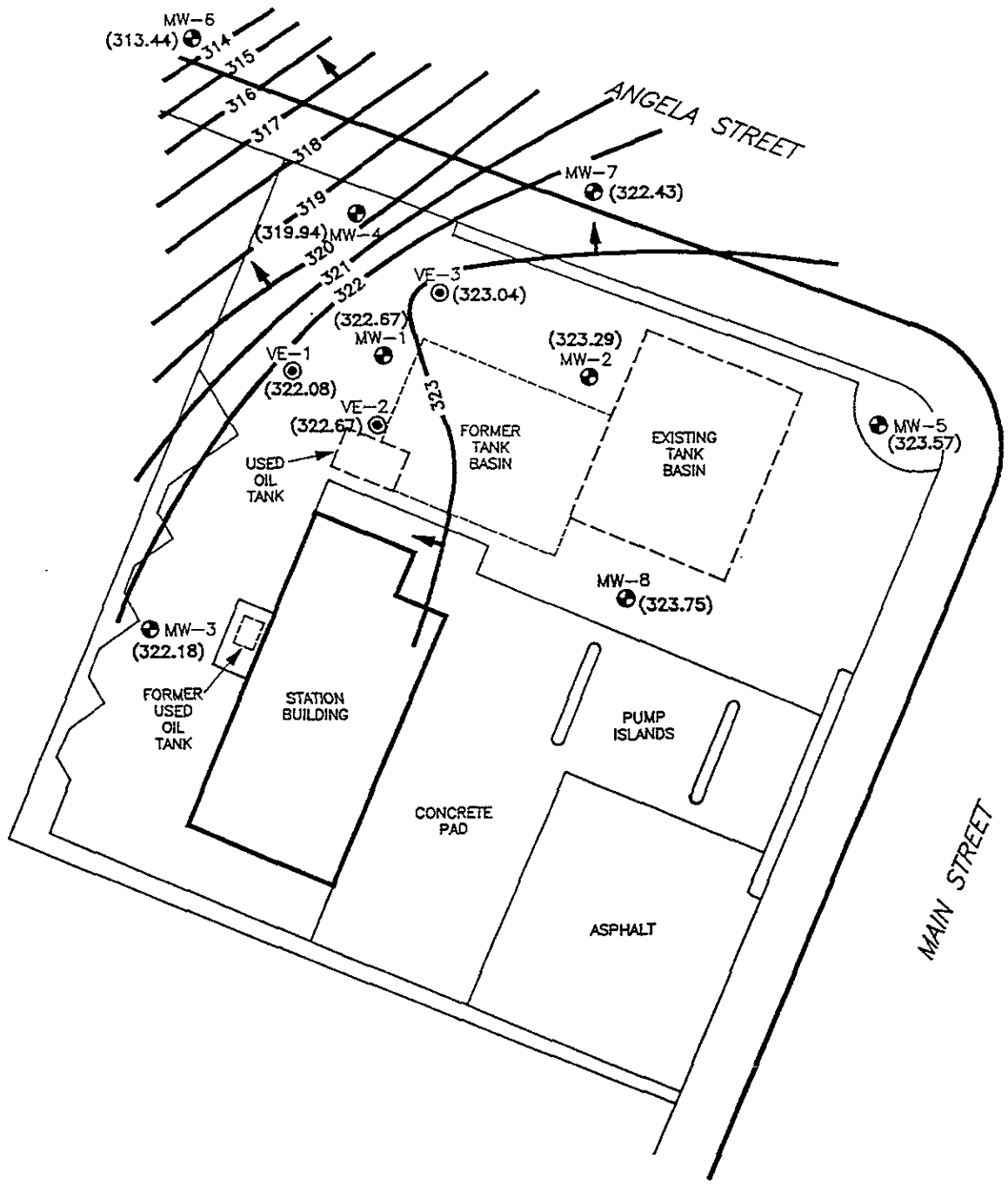
- ⊙ VE-1 VAPOR EXTRACTION WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION



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

PROJECT NO. D094-838	DRAWN BY LH. 8/24/94
FILE NO. 94-838-1	PREPARED BY REC
REVISION NO. 1	REVIEWED BY <i>[Signature]</i>

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Consultants, Inc.**



LEGEND:

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

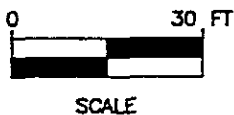
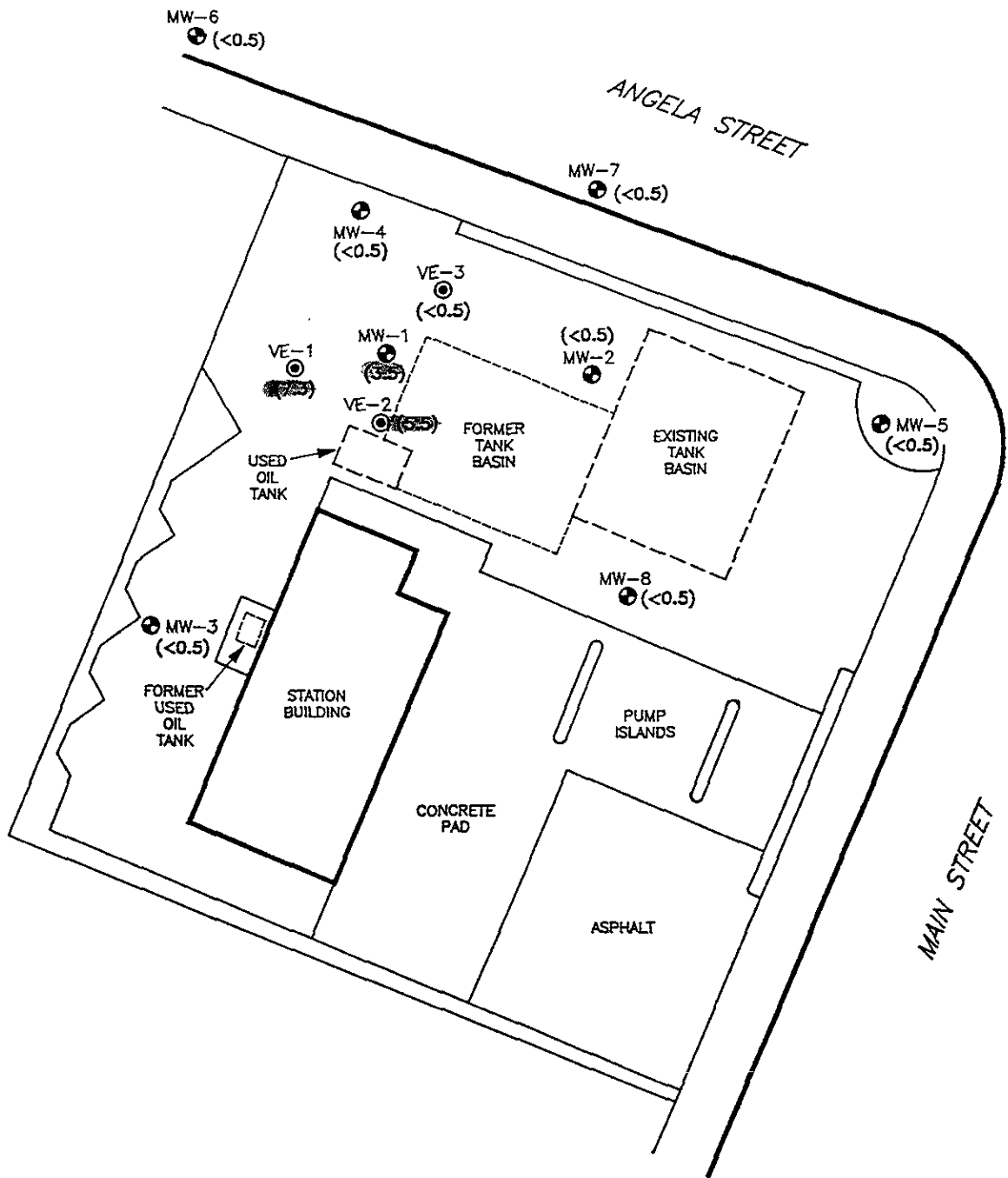


FIGURE 3
 WATER TABLE CONTOUR MAP -- 9/7/94
 EXXON STATION NO. 7-7003
 349 MAIN STREET
 PLEASANTON, CA.

PROJECT NO. D094-838	DRAWN BY LH. 10/10/94
FILE NO. 94-838-1	PREPARED BY REC
REVISION NO. 1	REVIEWED BY 9/13/10/10/94





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 DISTRIBUTION MAP
 9/7/94
 EXXON STATION NO. 7-7003
 349 MAIN STREET
 PLEASANTON, CA.

PROJECT NO. D094-838	DRAWN BY LHL 10/10/94
FILE NO. 94-838-1	PREPARED BY REC
REVISION NO. 1	REVIEWED BY JTB 10/14/94

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ENCLOSURE A

Field Methods and Procedures

FIELD METHODS AND PROCEDURES

1.0 GROUND WATER AND LIQUID-PHASE PETROLEUM HYDROCARBON

DEPTH DETERMINATION

A water/petroleum interface probe was used to determine the thickness of liquid-phase petroleum hydrocarbons (LPH), if present, and a water level indicator was used to determine 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 on separate data sheets presented in Enclosure B.

2.0 SUBJECTIVE ANALYSIS OF GROUND WATER

Prior to purging, a water sample was collected from the monitoring well for subjective analysis. 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 DEVELOPMENT, PURGING, AND SAMPLING

Monitoring wells were purged using a submersible pump 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 ensure sample integrity. 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

Sampling Information Sheets

SAMPLING INFORMATION SHEET



Delta
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Sample ID# MW1 Project Name: Exxon 7-7003 Project No. D094-838
 Location (address) 349 Main Street Pleasanton
 Date Sampled: 9-7-94 Time: 14:10
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: locking cap
 Well Depth 39.10 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 21.16 ft Date: 9-7-94 Time _____
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump _____ Bailor _____ Centrifugal pump _____ Other _____
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer _____ Sampling port
 Samples collected TPH6-BTEX-8010 6 VOLS Sample appearance clear
 Note any sampling problems NONE

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
13:50	73.6	7.1	12.86		5
13:57	71.2	7.1	12.39		20
14:05	70.5	7.0	12.64		35
					35 gal

Comments:

Well head Destroyed No Locking cap
Put one on - Left cone over well

Transportation (thermal preservation) ice & ice chest

Form completed by: Chill

Sampled by: PVZ, Chill

SAMPLING INFORMATION SHEET



Sample ID# MW 2 Project Name: Exxon 7-7003 Project No. D094-838
 Location (address) 349' Main street
 Date Sampled: 9/2/94 Time: 13:45
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 39.15 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 20.93 ft Date: 9/2/94 Time 10:32
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailer Centrifugal pump Other _____
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPH6-BTEX 3vols Sample appearance clear
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
13:30	72.0	7.7	10.77		5
13:35	70.4	7.6	12.91		20
13:42	71.6	7.4	12.77		36
					36 gal

Comments: well head destroyed, casing is cracked, Chertox box is destroyed

Transportation (thermal preservation) ice & ice chest
 Form completed by: Chill Sampled by: PVE, Chill

SAMPLING INFORMATION SHEET



Sample ID# MW 3 Project Name: Exxon 7-7003 Project No. D094-838
 Location (address) 349 Main Street Pleasanton
 Date Sampled: 9, 7, 94 Time: 12:55
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 38-91 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 20.52 ft Date: 9, 7, 94 Time 10:47
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailer Centrifugal pump Other
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPH6-Btex 3U095 Sample appearance clear
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
12:40	73.0	7.1	12.29		5
12:45	69.9	7.1	11.56		20
12:50	69.6	7.0	12.39		36
					36 gal

Comments: _____

Transportation (thermal preservation) ice & ice chest
 Form completed by: Chill Sampled by: PVE, Chill

SAMPLING INFORMATION SHEET



Sample ID# mw4 Project Name: Exxon 7-7003 Project No. D094-838
 Location (address) 349 Main St Pleasanton
 Date Sampled: 9/7/94 Time: 1305
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 47.43 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 23.44 ft Date: 9/7/94 Time 10:39
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailor Centrifugal pump Other _____
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPHG- BTEX - 8010 6Vom3 Sample appearance clear
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
11:32	69.3	7.0	17.83		5
11:48	71.3	7.2	17.31		30
<i>Well goes dry after 30 gal</i>					
					47 gal

Comments: _____

Transportation (thermal preservation) ice & ice chest
 Form completed by: Chill Sampled by: Chill, Puz

SAMPLING INFORMATION SHEET



Sample ID# mv5 Project Name: Exxon 7-7003 Project No. 2094-898
 Location (address) 349 Main St Pleasanton
 Date Sampled: 9/7/94 Time: 12:10
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 33.28 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 21.63 ft Date: 9/7/94 Time 10:36
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailor Centrifugal pump Other _____
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPHG-BTex 3 vols Sample appearance clean
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
11:58	72.1	7.5	12.13		064L
12:00	70.4	6.9	8.12		10 gal
12:02	70.8	6.9	7.92		15
12:04	71.2	7.1	7.72		23
					28

Comments: _____

Transportation (thermal preservation) ice & ice chest
 Form completed by: Phill Sampled by: PUB, Phill

SAMPLING INFORMATION SHEET



Sample ID# MW6 Project Name: Exxon 7-7003 Project No. D994-838
 Location (address) 349 Main St. Pleasanton
 Date Sampled: 9/7/94 Time: 13:35
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 57.93 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 28.81 ft Date: 9/7/94 Time 10:38
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailor Centrifugal pump Other
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPHG-Btex 3Vons Sample appearance clear
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
13:01	70.8	7.3	8.93		10
13:09	71.0	7.4	9.52		30
13:19	70.6	7.3	9.91		57
					57 gal

Comments: _____

Transportation (thermal preservation) ice chest
 Form completed by: chill Sampled by: P. Z. Chill

SAMPLING INFORMATION SHEET



Sample ID# MV 7 Project Name: Exxon 7-7007 Project No. D094-838
 Location (address) 349 Main St Pleasonton
 Date Sampled: 9/7/94 Time: 11:25
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 44.81 ft below top of casing Casing diameter: 4 inches
 Depth to water (below top of casing) 21.19 ft Date: 9/7/94 Time 10:58
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailor Centrifugal pump Other
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPHG-BTex 3Vons Sample appearance clear
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
11:12	73.2	7.6	11.25		20
11:16	68.7	7.5	8.91		30
11:20	67.7	7.5	8.71		40
					47 gal

Comments: _____

Transportation (thermal preservation) ice ice chest
 Form completed by: Chill Sampled by: PVE, Chill

SAMPLING INFORMATION SHEET



Sample ID# MW 8 Project Name: Exxon 7-7003 Project No. D094-838
 Location (address) 349- Main St Pleasanton
 Date Sampled: 7-7-94 Time: 1445
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts _____ locks _____ locking cap
 Well Depth 22.74 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 20.25 ft. Date: 7-7-94 Time 10:30
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump _____ Bailor _____ Centrifugal pump _____ Other _____
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer _____ Sampling port _____
 Samples collected TPHO- Beta 3 Vols Sample appearance _____
 Note any sampling problems _____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
14:22	70.4	6.50	13101		1
	shut on water well gas dig at 2 gal				
					5 gal

Comments: Well head Destroyed New locking cap Put on Left Cone over well

Transportation (thermal preservation) ice & ice chest
 Form completed by: Chill Sampled by: PVE, Chill

SAMPLING INFORMATION SHEET



Sample ID# PVE 1 Project Name: Exxon 7-7003 Project No. D094-838
 Location (address) 349 Main St Pleasanton
 Date Sampled: 9/2/94 Time: 1431
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 26.66 ft below top of casing Casing diameter 2 inches
 Depth to water (below top of casing) 21.30 ft Date: 9/2/94 Time 10:42
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailer Centrifugal pump Other
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPHG-BTex 300ms Sample appearance clean
 Note any sampling problems NONE

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
14:04	70.0	6.4	12.16		1
14:09	70.5	7.0	11.95		3
					3 gal

Comments: _____

Transportation (thermal preservation) ice & ice chest
 Form completed by: Chill Sampled by: PVE, Chill

SAMPLING INFORMATION SHEET



Sample ID# VE 3 Project Name: Exxon 7-2007 Project No. D094-838
 Location (address) 349 Main St. Pleasanton
 Date Sampled: 9/7/94 Time: 1405
 Wellhead assembly condition: Good Fair Poor (If poor, see comments)
 Equipment Replaced: boils locks locking cap
 Well Depth 22.94 ft below top of casing Casing diameter 4 inches
 Depth to water (below top of casing) 20.35 ft Date: 9/7/94 Time 10:41
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailor Centrifugal pump Other
 At least 3 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected TPH6-BTEX 3 Vols Sample appearance clear
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
13:55	72.2	7.1	15.58		1 gal
	Well goes dry at 3 gal				
					5 gal

Comments: Shim on water

Transportation (thermal preservation) ice & ice chest
 Form completed by: Chill Sampled by: PVZ, Chill

ENCLOSURE C

Ground Water Sample Analytical Reports



Curtis & Tompkins, Ltd., Analytical Laboratories. Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Delta Environmental Consultants, Inc
3330 Data Drive
Rancho Cordova, CA 95670

Date: 07-OCT-94
Lab Job Number: 117368
Project ID: D094-838
Location: Pleasanton

Reviewed by: _____

Reviewed by: _____

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LABORATORY NUMBER: 117368
 CLIENT: DELTA ENVIRONMENTAL CONSULTANTS
 PROJECT ID: D094-838
 LOCATION: Pleasanton
 STORE NUMBER: 7-7003

DATE SAMPLED: 09/07/94
 DATE RECEIVED: 09/09/94
 DATE ANALYZED: 09/21,22/94
 DATE REPORTED: 10/07/94

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions
 TVH by California DOHS Method/LUFT Manual October 1989
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
117368-1	MW-1	170	3.5	2.0	17	18
117368-2	MW-2	410	ND(0.5)	ND(0.5)	3.8	2.9
117368-3	MW-3	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
117368-4	MW-4	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
117368-5	MW-5	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
117368-6	MW-6	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
117368-7	MW-7	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
117368-8	MW-8	67	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
117368-9	VE-1	8,100*	7.3*	46*	620**	150*
117368-10	VE-2	690*	5.5*	ND(0.5)*	9.0*	3.0*
117368-11	VE-3	ND(50)*	ND(0.5)*	ND(0.5)*	ND(0.5)*	ND(0.5)*
117368-METHOD BLANK		ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

* Results obtained past the technical holding time because the analytical sequence ran past midnight.

** Result obtained past the technical holding time on 10/07/94 due to dilution requirements.

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	5
RECOVERY, %	94



LABORATORY NUMBER: 117368-1
 CLIENT: DELTA ENVIRONMENTAL CONSULTANTS
 PROJECT ID: D094-838
 LOCATION: Pleasanton
 SAMPLE ID: MW-1

DATE SAMPLED: 09/07/94
 DATE RECEIVED: 09/09/94
 DATE ANALYZED: 09/18/94
 DATE REPORTED: 10/07/94
 STORE NUMBER: 7-7003

EPA 8010
 Purgeable Halocarbons in Water

Compound	Result ug/L	Reporting Limit ug/L
Chloromethane	ND	2
Bromomethane	ND	2
Vinyl chloride	ND	2
Chloroethane	ND	2
Methylene chloride	ND	20
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
Chloroform	ND	1
Freon 113	ND	1
1,2-Dichloroethane	ND	1
1,1,1-Trichloroethane	ND	1
Carbon tetrachloride	ND	1
Bromodichloromethane	ND	1
1,2-Dichloropropane	ND	1
cis-1,3-Dichloropropene	ND	1
Trichloroethene	ND	1
1,1,2-Trichloroethane	ND	1
trans-1,3-Dichloropropene	ND	1
Dibromochloromethane	ND	1
Bromoform	ND	2
Tetrachloroethene	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

Surrogate Recovery, %

101

LABORATORY NUMBER: 117368-4
 CLIENT: DELTA ENVIRONMENTAL CONSULTANTS
 PROJECT ID: D094-838
 LOCATION: Pleasanton
 SAMPLE ID: MW-4

DATE SAMPLED: 09/07/94
 DATE RECEIVED: 09/09/94
 DATE ANALYZED: 09/18/94
 DATE REPORTED: 10/07/94
 STORE NUMBER: 7-7003

EPA 8010
 Purgeable Halocarbons in Water

Compound	Result ug/L	Reporting Limit ug/L
Chloromethane	ND	2
Bromomethane	ND	2
Vinyl chloride	ND	2
Chloroethane	ND	2
Methylene chloride	ND	20
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
Chloroform	ND	1
Freon 113	ND	1
1,2-Dichloroethane	ND	1
1,1,1-Trichloroethane	ND	1
Carbon tetrachloride	ND	1
Bromodichloromethane	ND	1
1,2-Dichloropropane	ND	1
cis-1,3-Dichloropropene	ND	1
Trichloroethene	ND	1
1,1,2-Trichloroethane	ND	1
trans-1,3-Dichloropropene	ND	1
Dibromochloromethane	ND	1
Bromoform	ND	2
Tetrachloroethene	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

Surrogate Recovery, %

102

LABORATORY NUMBER: 117368-METHOD BLANK
 CLIENT: DELTA ENVIRONMENTAL CONSULTANTS
 PROJECT ID: D094-838
 LOCATION: Pleasanton
 SAMPLE ID: MB

DATE ANALYZED: 09/18/94
 DATE REPORTED: 10/07/94
 STORE NUMBER: 7-7003

EPA 8010
 Purgeable Halocarbons in Water

Compound	Result ug/L	Reporting Limit ug/L
Chloromethane	ND	2
Bromomethane	ND	2
Vinyl chloride	ND	2
Chloroethane	ND	2
Methylene chloride	ND	20
Trichlorofluoromethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
cis-1,2-Dichloroethene	ND	1
trans-1,2-Dichloroethene	ND	1
Chloroform	ND	1
Freon 113	ND	1
1,2-Dichloroethane	ND	1
1,1,1-Trichloroethane	ND	1
Carbon tetrachloride	ND	1
Bromodichloromethane	ND	1
1,2-Dichloropropane	ND	1
cis-1,3-Dichloropropene	ND	1
Trichloroethene	ND	1
1,1,2-Trichloroethane	ND	1
trans-1,3-Dichloropropene	ND	1
Dibromochloromethane	ND	1
Bromoform	ND	2
Tetrachloroethene	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

Surrogate Recovery, %

101

8010 MS/MSD Report

Matrix Sample Number: 117301-002 Date Analyzed: 18-SEP-94
 Matrix Sample File: 261W009.raw Spike File: 261W010.raw
 Matrix: WATER Spike Dup File: 261W011.raw
 Batch No: 261 9415806 9415807 9415805 Analyst: LFL

	Instrdg	SpikeAmt	% Rec	Limits
<u>MS RESULTS</u>				
1,1-Dichloroethene	20.4771	20	102 %	61-145%
Trichloroethene	21.0913	20	104 %	71-120%
Chlorobenzene	19.957	20	99 %	75-130%
Surrogate Recovery				
Bromobenzene	99.5053	100	100 %	75-125%
<u>MSD RESULTS</u>				
1,1-Dichloroethene	19.5912	20	98 %	61-145%
Trichloroethene	20.472	20	101 %	71-120%
Chlorobenzene	19.741	20	98 %	75-130%
Surrogate Recovery				
Bromobenzene	99.6295	100	100 %	75-125%
<u>MATRIX RESULTS</u>				
1,1-Dichloroethene	0			
Trichloroethene	.304			
Chlorobenzene	.2158			
<u>RPD DATA</u>				
1,1-Dichloroethene	4 %			< 14%
Trichloroethene	3 %			< 14%
Chlorobenzene	1 %			< 13%

Column: Rtx 502.2
 Limits based on 3/90 SOW CLP

Results within Specifications - PASS



117368

EXXON COMPANY, U.S.A

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

CHAIN OF CUSTODY

Berkeley, CA, 2323 6th St., 947 10
(510)486-0900

Irvine, CA 2496 Da Vinci, Rd. 927 14
(714)262-9700

Curtis & Tompkins, Ltd.

Consultant's Name: Delta Environmental Consultants, Inc. Page 1 of 1

Address: 3330 Data Dr. Ste 100 Rancho Cordova, Ca 95670 Site Location: Pleasanton

Object #: DO94-838 Consultant Project #: DO94-838 Consultant Work Release #: 19432528

Object Contact: Rich Chandler Phone #: (916) 638-2085 Laboratory Work Release #:

EXXON Contact: Marla Guenster Phone #: (510) 246-8776 EXXON RAS #: 7-7003

Sampled by (print): Paul Zianno Sampler's Signature: Paul Zianno

Shipment Method: UPS Overnight Air Bill #:

24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Presv	# of Cont.	C & T Sample #	TPH/ GAS/ BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH EPA 418.1	VOLs EPA 8010	Temperature: _____
MW-1 -1	9/7/94	14:10	Water	HCL	6		X			X	Inbound Seal: Yes No
MW-2 -2		13:45			3						Outbound Seal: Yes No
MW-3 -3		12:55			3						
MW-4 -4		13:05			6					X	
MW-5 -5		12:10			3						
MW-6 -6		13:35			3						
MW-7 -7		11:25			3						
MW-8 -8		14:45			3						
IE-1 -9		14:31			3						
IE-2 -10		14:55			3						
IE-3 -11		14:05			3						

Requested by/Affiliation	Date	Time	Accepted/Affiliation	Date	Time	Additional comments:
<u>Paul Zianno</u>	<u>9/8/94</u>	<u>10:15</u>	<u>[Signature]</u>	<u>9/11/94</u>		