

# EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CALIFORNIA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

DARIN ROUSE  
SENIOR ENGINEER

(925) 246-8768  
(925) 246-8798 FAX

September 24, 1999

Mr. Scott Seery  
Alameda County Health Care Services  
1131 Harbor Bay Parkway  
Alameda, California 94502-5577

**RE: EXXON RAS #7-7003/349 Main Street, Pleasanton, California**

ENVIRONMENTAL  
PROTECTION  
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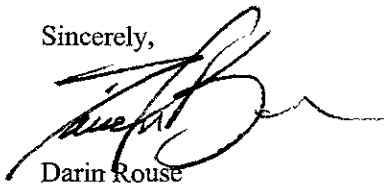
Dear Mr. Seery:

Attached for your review and comment is a report entitled *Quarterly Ground Water Monitoring Report, Second Quarter 1999* for the subject site. This report was prepared by Delta Environmental Consultants, Inc., of Rancho Cordova, California, and details the results of the March 1999 monitoring and sampling event.

As we discussed at the meeting at Zone 7 on September 15, 1999, Exxon will discontinue quarterly sampling at this site, pending the closure request dated September 14, 1999.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,



Darin Rouse  
Senior Engineer

MDG/tjm

attachment: Delta's *Quarterly Ground Water Monitoring Report, Second Quarter 1999*,  
dated September 17, 1999

cc: w/attachment

Mr. David Lunn - Alameda County Flood Control  
Mr. Dennis Mishek - California Regional Water Quality Control Board, San Francisco Bay Region  
Ms. Kathy Simonelli - Geological Services Corporation

w/o attachment

Mr. James R. Brownell - Delta Environmental Consultants, Inc.

**QUARTERLY GROUND WATER  
MONITORING REPORT,  
SECOND QUARTER 1999**

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**EXXON SERVICE STATION No. 7-7003  
349 MAIN STREET  
PLEASANTON, CALIFORNIA  
DELTA PROJECT NO. D094-838**

**September 17, 1999**

**Prepared By**

**DELTA ENVIRONMENTAL CONSULTANTS, INC.  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, California 95670  
(916) 638-2085**



3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

September 17, 1999

Mr. Darin Rouse  
Exxon Company, U.S.A.  
2300 Clayton Road, Suite 1250  
Concord, California 94520

Subject: *Quarterly Ground Water Monitoring Report, Second Quarter 1999*  
Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California  
Delta Project No. D094-838

Dear Mr. Rouse:

Delta Environmental Consultants, Inc. (Delta), has been authorized by Exxon Company, U.S.A. (Exxon), to prepare a report summarizing quarterly ground water monitoring conducted by Blaine Tech Services (Blaine) at Exxon Service Station No. 7-7003 which is currently the site of a bank. This report presents the results of quarterly ground water monitoring and sampling conducted on June 30, 1999. Work conducted at the site by Blaine was performed in accordance with the field methods and procedures described in Enclosure A.

### Work Performed

Ground water table elevation measurements were recorded in monitoring wells MW-6 and MW-7 on June 30, 1999. Depth to ground water was measured at 26.00 (MW-6) and 20.38 (MW-7) feet below the top of the well casings. A site map is presented in Figure 1. Cumulative ground water elevation measurements are presented in Table 1. Field sampling data sheets for site are included in Enclosure B

A ground water elevation contour map was not constructed because depth to ground water measurements were available from only two wells. The casing for monitoring well MW-1 was damaged during construction performed by the current site owner in 1997. The historical ground water flow direction has been toward the northwest. No liquid-phase petroleum hydrocarbons or hydrocarbon sheens were present in the wells during the second quarter 1999 monitoring event.

Ground water samples were collected from monitoring wells MW-6 and MW-7 on June 30, 1999. The samples were submitted to Sequoia Analytical (a California-certified laboratory) for analysis of benzene, toluene, ethylbenzene, total xylenes, and methyl tertiary butyl ether (MTBE) using EPA Method 8020, and total purgeable petroleum hydrocarbons (TPPH) as gasoline using EPA Method 8015 Modified. Figure 1 presents dissolved concentrations of benzene, TPPH as gasoline, and MTBE. A summary of analytical results from ground water samples collected to date are presented in Table 1. A copy of the laboratory analytical report for the second quarter 1999 sampling event is presented in Enclosure C.

Mr. Darin Rouse  
Exxon Company, U.S.A.  
September 17, 1999  
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**Future Work**

The next quarterly monitoring event for this site is scheduled for September 1999. A closure report was submitted to Alameda County Health Care Services on September 14, 1998.

**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 a copy of this report be forwarded to:

Mr. David Lunn  
Alameda County Flood Control and  
Water Conservation District (Zone 7)  
5997 Parkside Drive  
Pleasanton, CA 94566

Mr. Dennis Mishek  
California Regional Water Quality Control Board,  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Mr. Scott Seery  
Alameda County Health Care Services  
1131 Harbor Bay Parkway  
Alameda, CA 94502-5577

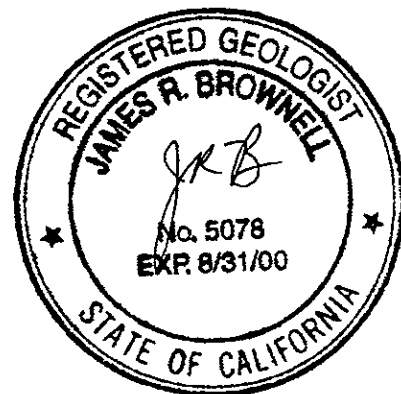
If you have any questions regarding this project, please contact Jim Brownell at (916) 638-2765.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

*J. Brownell, for*  
J. William Speth  
Staff Geologist

*James R. Brownell*  
James R. Brownell, R.G.  
Project Manager  
California Registered Geologist No. 5078



BIH (LRP015.838)  
Enclosures

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-1	02/23/90	343.83	26.08	317.75	21	9.2	59	19	3,300	100	NA	NA	NA	No LPH
	06/15/90		26.49	317.34	7.9	5.9	32	58	1,300	<50	NA	NA	NA	No LPH
	08/01/90		26.47	317.36	77	280	50	250	2,500	<50	NA	NA	NA	No LPH
	12/18/90		28.00	315.83	9.0	2.0	43	400	390	<100	NA	NA	NA	No LPH
	03/19/91		23.63	320.20	45	12	240	300	4,500	<100	NA	12.0 <sup>a</sup>	NA	No LPH
	06/27/91		22.11	321.72	5.4	2.6	29	34	710	<100	NA	ND	NA	No LPH
	09/26/91		27.75	316.08	1.9	<0.5	0.6	0.6	290	<100	NA	ND	NA	No LPH
	01/10/92		25.61	318.22	52	15	690	496	5,400	<100	NA	6.1 <sup>a</sup>	NA	No LPH
	03/12-13/92		22.52	321.31	87	22	1,200	1,000	1,400	NA	NA	14 <sup>a</sup> , 2.1 <sup>b</sup> , 1.2 <sup>c</sup> 0.5 <sup>d</sup> , 0.8 <sup>e</sup>	NA	No LPH
	06/09/92		21.53	322.30	27	5.9	400	300	4,500	<100	<5,000	ND	NA	No LPH
	09/28-29/92		29.84	313.99	<0.5	0.9	<0.5	<0.5	60	NA	<5,000	ND	NA	No LPH
	12/12/92		23.86	319.97	53	18	1,100	570	1,400	NA	<5,000	49 <sup>a</sup>	NA	No LPH
	02/02-03/93		19.00	324.83	61	27	900	840	10,000	NA	<5,000	19 <sup>a</sup> , 2.2 <sup>b</sup> 1.1 <sup>d</sup> , 2.4 <sup>e</sup>	NA	No LPH
	06/08-09/93		16.62	327.21	42	32	970	720	7,500	NA	<5,000	1.8 <sup>a</sup> , 1.0 <sup>c</sup> , 0.8 <sup>e</sup>	NA	No LPH
	09/22-23/93		19.63	324.20	36	34	820	540	6,600	NA	<5,000	0.6 <sup>c</sup>	NA	No LPH
	11/17-18/93		20.82	323.01	24	10	470	300	5,900	NA	NA	ND	NA	No LPH
	02/16-17/94		21.47	322.36	42	15	470	330	6,700	NA	NA	ND	NA	No LPH
	05/12-13/94		19.78	324.05	26	9.4	400	210	4,000	NA	<5,000	ND	NA	No LPH
	09/07/94		21.16	322.67	3.5	2.0	17	18	170	NA	NA	ND	NA	No LPH
	12/02/94		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	Dry
	03/06/95		18.70	325.13	9.8	5.2	130	80	1,500	NA	NA	ND	NA	No LPH
	05/30/95		17.70	326.13	41	14	480	270	6,200	NA	NA	ND	<50	No LPH
	09/06/95		20.21	323.62	8.1	5.7	120	65	1,500	NA	NA	NA	<12	No LPH
	11/30/95		21.47	322.36	1.9	0.7	5.3	5.5	77	NA	NA	NA	<5.0	No LPH
	03/28/96		15.45	328.38	54	5.8	420	210	6,700	NA	NA	NA	<50	No LPH
	06/25/96		18.91	324.92	17	12	110	72	1,600	NA	NA	NA	11	No LPH
	09/25/96		21.10	322.73	11	5.1	37	36	500	NA	NA	NA	<5.0	No LPH
	12/31/96		19.38	324.45	11	7.0	48	41	540	NA	NA	NA	<5.0	No LPH
	05/19/97		17.64	326.19	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/17/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	12/23/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	03/24/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/15/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
 349 Main Street  
 Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-1	09/11/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
(Cont)	12/15/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	03/30/99		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/30/99		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-2	02/23/90	344.22	26.31	317.91	3.0	2.0	0.98	6.5	650	8.0	NA	NA	NA	No LPH
	06/15/90		26.25	317.97	<0.5	2.6	<0.5	<0.5	670	<50	NA	NA	NA	No LPH
	08/01/90		26.15	318.07	24	130	37	170	1,300	<50	NA	NA	NA	No LPH
	12/18/90		27.94	316.28	<0.3	0.5	1.0	3.0	470	<100	NA	NA	NA	No LPH
	03/19/91		23.41	320.81	10	3.4	6.1	3.8	700	<100	NA	ND	NA	No LPH
	06/27/91		21.63	322.59	8.7	2.1	8.8	33	1,400	<100	NA	ND	NA	No LPH
	09/26/91		27.19	317.03	<0.5	0.6	0.6	3.9	300	<100	NA	ND	NA	No LPH
	01/10/92		25.67	318.55	9.3	1.0	2.4	3.2	800	<100	NA	ND	NA	No LPH
	03/12-13/92		22.28	321.94	<0.5	0.6	0.63	1.0	350	NA	NA	ND	NA	No LPH
	06/09/92		21.17	323.05	1.9	2.5	2.51	5.1	150	<100	NA	ND	NA	No LPH
	09/28-29/92		29.58	314.64	<0.5	<0.5	<0.5	<0.5	71	NA	NA	ND	NA	No LPH
	12/12/92		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	02/02-03/93		18.69	325.53	3.9	8.2	21	20	720	NA	NA	NA	NA	No LPH
	06/08-09/93		16.32	327.90	0.5	3.3	5.7	2.0	160	NA	NA	NA	NA	No LPH
	09/22-23/93		19.43	324.79	0.7	5.6	4.0	2.6	240	NA	NA	NA	NA	No LPH
	11/17-18/93		20.56	323.66	1.2	2.3	3.2	1.3	490	NA	NA	NA	NA	No LPH
	02/16-17/94		20.93	323.29	<0.5	2.3	1.0	2.0	280	NA	NA	NA	NA	No LPH
	05/12-13/94		19.64	324.58	<0.5	0.7	0.6	3.8	100	NA	NA	NA	NA	No LPH
	09/07/94		20.93	323.29	<0.5	<0.5	3.8	2.9	410	NA	NA	NA	NA	No LPH
	12/02/94		20.39	323.83	<0.5	<0.5	<0.5	<0.5	55	NA	NA	NA	NA	No LPH
	03/06/95		18.66	325.56	<0.5	<0.5	<0.5	<0.5	190	NA	NA	NA	NA	No LPH
	05/30/95		17.69	326.53	0.55	<0.5	<0.5	<0.5	58	NA	NA	NA	<2.5	No LPH
	09/06/95		20.18	324.04	<0.5	<0.5	<0.5	<0.5	81	NA	NA	NA	<2.5	No LPH
	11/30/95		21.17	323.05	3.4	<0.5	<0.5	0.85	200	NA	NA	NA	<5.0	No LPH
	03/28/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/25/96		18.91	325.31	1.4	<0.5	<0.5	<0.5	68	NA	NA	NA	<5.0	No LPH
	09/25/96		20.92	323.30	<0.5	<0.5	<0.5	<0.5	170	NA	NA	NA	<5.0	No LPH
	11/27/96													Well destroyed

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-3	02/23/90	342.70	24.78	317.92	<0.5	<0.5	<0.5	<0.5	<20	100	NA	NA	NA	No LPH
	06/15/90		25.29	317.41	<0.5	<0.5	<0.5	<0.5	200	<50	NA	NA	NA	No LPH
	08/01/90		25.40	317.30	54	380	23	400	3,200	<50	NA	NA	NA	No LPH
	12/18/90		26.84	315.86	8.0	12	6.0	24	200	<100	<5,000	4.1 <sup>e</sup>	NA	No LPH
	03/19/91		22.13	320.57	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	06/27/91		21.04	321.66	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	09/26/91		26.63	316.07	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	01/10/92		24.26	318.44	<0.5	<0.5	<0.5	<0.5	<50	<100	5,100	ND	NA	No LPH
	03/12-13/92		21.60	321.10	<0.5	<0.5	<0.5	<0.5	<50	NA	5,000	ND	NA	No LPH
	06/09/92		20.88	321.82	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	09/28-29/92		28.67	314.03	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	ND	NA	No LPH
	12/12/92		20.73	321.97	<0.5	<0.5	<0.5	1.3	<50	NA	<5,000	NA	NA	No LPH
	02/02-03/93		19.30	323.40	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	NA	NA	No LPH
	06/08-09/93		15.89	326.81	0.6	0.9	3.4	2.8	<50	NA	<5,000	NA	NA	No LPH
	09/22-23/93		18.63	324.07	<0.5	1.0	1.6	4.4	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		19.97	322.73	<0.5	<0.5	<0.5	1.5	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		20.64	322.06	1.5	5.3	1.6	9.2	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		18.32	324.38	<0.5	0.8	<0.5	2.8	<50	NA	NA	NA	NA	No LPH
	09/07/94		20.52	322.18	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		19.59	323.11	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		16.98	325.72	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		16.65	326.05	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		18.86	323.84	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		20.76	321.94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		14.93	327.77	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		17.85	324.85	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		20.29	322.41	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		17.82	324.88	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97													Well destroyed



## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-4	06/15/90	343.38	30.94	312.44	<0.5	<0.5	<0.5	<0.5	<20	<50	NA	NA	NA	No LPH
	08/01/90		31.21	312.17	5.2	5.4	5.4	9.9	120	<50	NA	NA	NA	No LPH
	12/18/90		32.86	310.52	7.0	1.0	<0.3	2.0	50	<100	NA	NA	NA	No LPH
	03/19/91		26.76	316.62	1.8	0.8	2.2	11	160	<100	NA	ND	NA	No LPH
	06/27/91		25.91	317.47	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	09/26/91		32.29	311.09	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	1.0 <sup>c</sup>	NA	No LPH
	01/10/92		29.06	314.32	0.9	<0.5	7.6	4.4	98	<100	NA	1.0 <sup>c</sup>	NA	No LPH
	03/12-13/92		24.25	319.13	1.2	<0.5	5.3	4.3	82	NA	NA	ND	NA	No LPH
	06/09/92		25.00	318.38	0.6	1.0	<0.5	2.5	<50	<100	NA	0.7 <sup>c</sup>	NA	No LPH
	09/28-29/92		34.41	308.97	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	12/12/92		30.77	312.61	1.0	0.9	7.0	11	99	NA	NA	ND	NA	No LPH
	02/02-03/93		21.03	322.35	2.3	2.2	6.2	8.4	170	NA	NA	ND	NA	No LPH
	06/08-09/93		18.35	325.03	0.7	0.9	0.7	<0.5	<50	NA	NA	0.6 <sup>c</sup>	NA	No LPH
	09/22-23/93		21.86	321.52	0.8	2.0	3.1	5.3	59	NA	NA	ND	NA	No LPH
	11/17-18/93		22.98	320.40	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	02/16-17/94		23.94	319.44	8.7	17	4.2	24	98	NA	NA	0.5 <sup>c</sup>	NA	No LPH
	05/12-13/94		22.30	321.08	0.8	0.9	0.7	6.1	<50	NA	NA	ND	NA	No LPH
	09/07/94		23.44	319.94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	12/02/94		23.07	320.31	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	03/06/95		20.52	322.86	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	05/30/95		19.16	324.22	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	<2.5	No LPH
	09/06/95		22.26	321.12	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		23.67	319.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		16.50	326.88	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		20.38	323.00	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		23.16	320.22	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		22.55	320.83	<0.5	3.7	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97													Well destroyed

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-5	06/15/90	345.20	26.94	318.26	<0.5	<0.5	<0.5	<0.5	<20	60	NA	NA	NA	No LPH
	08/01/90		26.90	318.30	9.7	12	7.6	17	120	<50	NA	NA	NA	No LPH
	12/18/90		28.31	316.89	2.0	3.5	2.0	8.0	50	<100	NA	NA	NA	No LPH
	03/19/91		23.98	321.22	<0.5	<0.5	<0.5	<0.5	160	<100	NA	NA	NA	No LPH
	06/27/91		22.41	322.79	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	0.5 <sup>a</sup>	NA	No LPH
	09/26/91		27.77	317.43	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	01/10/92		26.38	318.82	<0.5	<0.5	<0.5	0.6	98	<100	NA	ND	NA	No LPH
	03/12-13/92		22.08	323.12	<0.5	<0.5	<0.5	<0.5	82	NA	NA	ND	NA	No LPH
	06/09/92		31.98	313.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	09/28-29/92		30.26	314.94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/12/92		27.20	318.00	0.9	11	0.5	3.1	210	NA	NA	ND	NA	No LPH
	02/02-03/93		20.01	325.19	<0.5	2.7	<0.5	0.9	70	NA	NA	NA	NA	No LPH
	06/08-09/93		16.80	328.40	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/22-23/93		20.28	324.92	1.0	<0.5	1.1	2.1	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		21.19	324.01	<0.5	<0.5	<0.5	0.9	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		21.61	323.89	1.2	4.3	1.4	8.2	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		20.61	324.59	1.7	2.3	1.5	9.1	<50	NA	NA	NA	NA	No LPH
	09/07/94		21.63	323.57	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		21.12	324.08	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		19.67	325.53	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		18.63	326.57	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/06/95		21.02	324.18	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		21.87	323.33	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		16.19	329.01	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		19.92	325.28	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		21.68	323.52	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		20.17	325.03	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97													Well destroyed

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-6	03/19/91	342.25	34.42	307.83	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	06/27/91		35.01	307.24	2.6	1.8	0.8	<0.30	<50	<100	NA	ND	NA	No LPH
	09/26/91		40.34	301.91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	01/10/92		36.20	306.05	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	03/12-13/92		31.95	310.30	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	06/09/92		33.22	309.03	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	09/28-29/92		40.96	301.29	<0.5	<0.5	0.9	0.9	<50	NA	NA	ND	NA	No LPH
	12/12/92		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	NM
	02/02/93		26.51	315.74	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	06/08/93		22.62	319.63	0.6	0.7	1.7	1.8	<50	NA	NA	NA	NA	No LPH
	09/22/93		26.74	315.51	<0.5	<0.5	0.7	1.1	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		28.49	313.76	0.6	0.8	1.2	3.9	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		29.83	312.42	3.8	7.9	2.0	11	51	NA	NA	NA	NA	No LPH
	05/12-13/94		27.89	314.36	0.6	1.0	<0.5	2.7	<50	NA	NA	NA	NA	No LPH
	09/07/94		28.81	313.44	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		28.55	313.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		24.70	317.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		22.03	320.22	<0.5	0.52	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		26.54	315.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		28.90	313.35	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/25/96		22.96	319.29	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		27.80	314.45	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		26.34	315.91	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	05/19/97		25.70	316.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/17/97		28.54	313.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	12/23/97		28.93	313.32	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/24/98		19.00	323.25	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	06/15/98		21.21	321.04	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/11/98		26.60	315.65	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	12/15/98		27.41	314.84	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	03/30/99		23.96	318.29	<0.5	<0.5	<0.5	1.77	<50	NA	NA	NA	<2.0	No LPH
	06/30/99		26.00	316.25	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-7	03/19/91	343.62	24.68	318.94	<0.5	<0.5	<0.5	<0.5	140	<100	NA	0.7 <sup>a</sup> , 0.8 <sup>b</sup>	NA	No LPH
	06/27/91		23.10	320.52	5.2	5.6	3.9	16	100	<100	NA	ND	NA	No LPH
	01/10/92		26.98	316.64	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	03/12-13/92		21.86	321.76	<0.5	<0.5	<0.5	<0.5	120		NA	ND	NA	No LPH
	06/09/92		22.32	321.30	<0.5	<0.5	<0.5	<0.5	81	<100	NA	ND	NA	No LPH
	09/28-29/92		31.92	311.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	12/12/92		28.80	314.82	5.1	6.9	3.3	19	200	NA	NA	NA	NA	No LPH
	02/02-03/93		19.50	324.12	<0.5	6.6	0.6	1.7	170	NA	NA	NA	NA	No LPH
	06/08-09/93		16.72	326.90	<0.5	0.8	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/22-23/93		19.90	323.72	0.6	0.9	0.7	1.1	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		20.75	322.87	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		21.36	322.26	0.9	2.7	<0.5	3.2	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		20.32	323.30	<0.5	1.1	<0.5	1.6	<50	NA	NA	NA	NA	No LPH
	09/07/94		21.19	322.43	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		20.95	322.67	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		19.35	324.27	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		18.19	325.43	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		20.57	323.05	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		21.64	321.98	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/25/96		19.51	324.11	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		21.30	322.32	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		20.52	323.10	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	05/19/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	09/17/97		21.64	321.98	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	12/23/97		21.27	322.35	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/24/98		15.64	327.98	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	06/15/98		17.77	325.85	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/11/98		20.73	322.89	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	12/15/98		20.77	322.85	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	03/30/99		19.67	323.95	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.0	No LPH
	06/30/99		20.38	323.24	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-8	06/08-09/93	344.00	15.78	328.22	<0.5	1.1	0.8	1.7	65	NA	NA	NA	NA	No LPH
	09/22-23/93		18.86	325.14	4.1	8.9	6.7	14	110	NA	NA	NA	NA	No LPH
	11/17-18/93		20.01	323.99	<0.5	0.9	<0.5	<0.5	78	NA	NA	NA	NA	No LPH
	02/16-17/94		20.30	323.70	<0.5	1.8	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		18.92	325.08	<0.5	1.0	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/07/94		20.25	323.75	<0.5	<0.5	<0.5	<0.5	67	NA	NA	NA	NA	Sheen
	12/02/94		19.73	324.27	<0.5	<0.5	<0.5	<0.5	110	NA	NA	NA	NA	No LPH
	03/06/95		17.66	326.34	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		16.97	327.03	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		19.30	324.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		20.44	323.56	<0.5	0.62	<0.5	6.8	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		14.91	329.09	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		18.10	325.90	<0.5	<0.5	<0.5	<0.5	79	NA	NA	NA	<5.0	No LPH
	09/25/96		20.20	323.80	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	11/27/96													Well destroyed

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
VE-1	09/28/92	343.38	21.92	321.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	06/08/93		16.44	326.94	<5.0	15	830	500	5,800	NA	NA	NA	NA	No LPH
	09/22-23/93		19.47	323.91	5.4	21	380	240	3,700	NA	NA	NA	NA	No LPH
	11/17-18/93		20.64	322.74	5.8	2.0	220	180	3,600	NA	NA	NA	NA	No LPH
	02/16-17/94		21.20	322.18	31	4.0	500	300	7,600	NA	NA	NA	NA	No LPH
	05/12-13/94		19.69	323.69	0.7	<0.5	56	33	970	NA	NA	NA	NA	No LPH
	09/07/94		21.30	322.08	7.3	46	620	150	8,100	NA	NA	NA	NA	No LPH
	12/02/94		20.63	322.75	3.4	37	450	210	8,300	NA	NA	NA	NA	No LPH
	03/06/95		18.40	324.98	<0.5	<0.5	<0.5	<0.5	52	NA	NA	NA	NA	No LPH
	05/30/95		17.58	325.80	15	<5 <sup>i</sup>	270	89	3,400	NA	NA	NA	<2.5	No LPH
	09/06/95		20.32	323.06	<0.5	<0.5	1.6	<0.5	100	NA	NA	NA	<2.5	No LPH
	11/30/95		21.75	321.63	48	10	240	35	5,200	NA	NA	NA	<50	No LPH
	03/28/96		15.75	327.63	<5.0 <sup>i</sup>	<5.0 <sup>i</sup>	250	81	3,800	NA	NA	NA	<50	No LPH
	06/25/96		18.99	324.39	19	<5.0 <sup>i</sup>	140	42	3,800	NA	NA	NA	8	No LPH
	09/25/96		21.32	322.06	<0.5	7.0	65	21	2,500	NA	NA	NA	<5.0	No LPH
	12/31/96		19.40	323.98	<0.5	<0.5	<0.5	0.86	270 ..	NA	NA	NA	<5.0	No LPH
	04/14/97			Well destroyed										

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
VE-2	06/08/93	343.39	16.20	327.19	10	18	900	340	7,000	NA	NA	NA	NA	No LPH
	09/22-23/93		19.23	324.16	15	33	240	82	2,600	NA	NA	NA	NA	No LPH
	11/17-18/93		20.44	322.95	22	<0.5	220	56	3,500	NA	NA	NA	NA	No LPH
	02/16-17/94		20.90	322.49	45	<5.0	220	60	3,400	NA	NA	NA	NA	No LPH
	05/12-13/94		19.41	323.98	19	29	66	110	1,900	NA	NA	NA	NA	No LPH
	09/07/94		20.94	322.45	5.5	<0.5	9.0	3.0	690	NA	NA	NA	NA	Sheen
	12/02/94		20.30	323.09	3.7	21 <sup>h</sup>	50	8.8	1,900	NA	NA	NA	NA	No LPH
	03/06/95		18.14	325.25	<0.5	<0.5	9.4	1.3	460	NA	NA	NA	NA	No LPH
	05/30/95		17.29	326.10	<1.0	<1.0	20	2.3	580	NA	NA	NA	<5.0	Sheen
	09/06/95		19.99	323.40	<1.0	<1.0	<1.0	<1.0	290	NA	NA	NA	12	No LPH
	11/30/95		21.33	322.06	13	0.64	2.7	4.1	990	NA	NA	NA	<5.0	No LPH
	03/28/96		15.23	328.16	<0.5	<0.5	11	1.1	460	NA	NA	NA	8.2	No LPH
	06/25/96		18.53	324.86	31	13	210	87	3,400	NA	NA	NA	28	No LPH
	09/25/96		20.96	322.43	<0.5	<0.5	<0.5	<0.5	610	NA	NA	NA	11	No LPH
	12/31/96		19.12	324.27	5.0	0.54	0.59	0.56	390	NA	NA	NA	<5.0	No LPH
	04/14/97		Well destroyed											

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
VE-3	06/08/93	343.39	16.48	326.91	3.1	3.1	18	15	130	NA	NA	NA	NA	No LPH
	09/22-23/93		18.96	324.43	11	7.3	13	32	130	NA	NA	NA	NA	No LPH
	11/17-18/93		20.00	323.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	02/16-17/94		21.02	322.37	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		20.58	322.81	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/07/94		20.35	323.04	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		21.85	321.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	03/06/95		19.12	324.27	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		17.37	326.02	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		19.49	323.90	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		20.96	322.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	12/31/95		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	NM
	03/28/96		15.68	327.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		18.37	325.02	1.5	0.62	<0.5	<0.5	67	NA	NA	NA	5.1	No LPH
	09/25/96		20.04	323.35	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		20.84	322.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97													Well destroyed

<sup>a</sup> Chloroform.

<sup>b</sup> Methylene chloride.

<sup>c</sup> 1,2-Dichloroethane.

<sup>d</sup> Trichloroethane.

<sup>e</sup> Tetrachloroethane.

<sup>f</sup> Sample was diluted due to the presence of high levels of hydrocarbons.

<sup>g</sup> Bromodichloromethane.

<sup>h</sup> The presence of this compound confirmed by second column; however, the confirmation concentration differed from the reported result by more than a factor of two.

<sup>i</sup> Elevated detection limit quantified by multiplying laboratory reporting limits by report limit multiplication factor.

Reference elevation = Elevation relative to mean sea level.

Depth to ground water = Measured from notch/mark on north edge of well casing.

µg/L = Micrograms per liter

ppm = parts per million.

TPPH = Total purageble petroleum hydrocarbons or total petroleum hydrocarbons (TPH) by EPA Method 8015 Modified.

VOC = Volatile organic compounds.

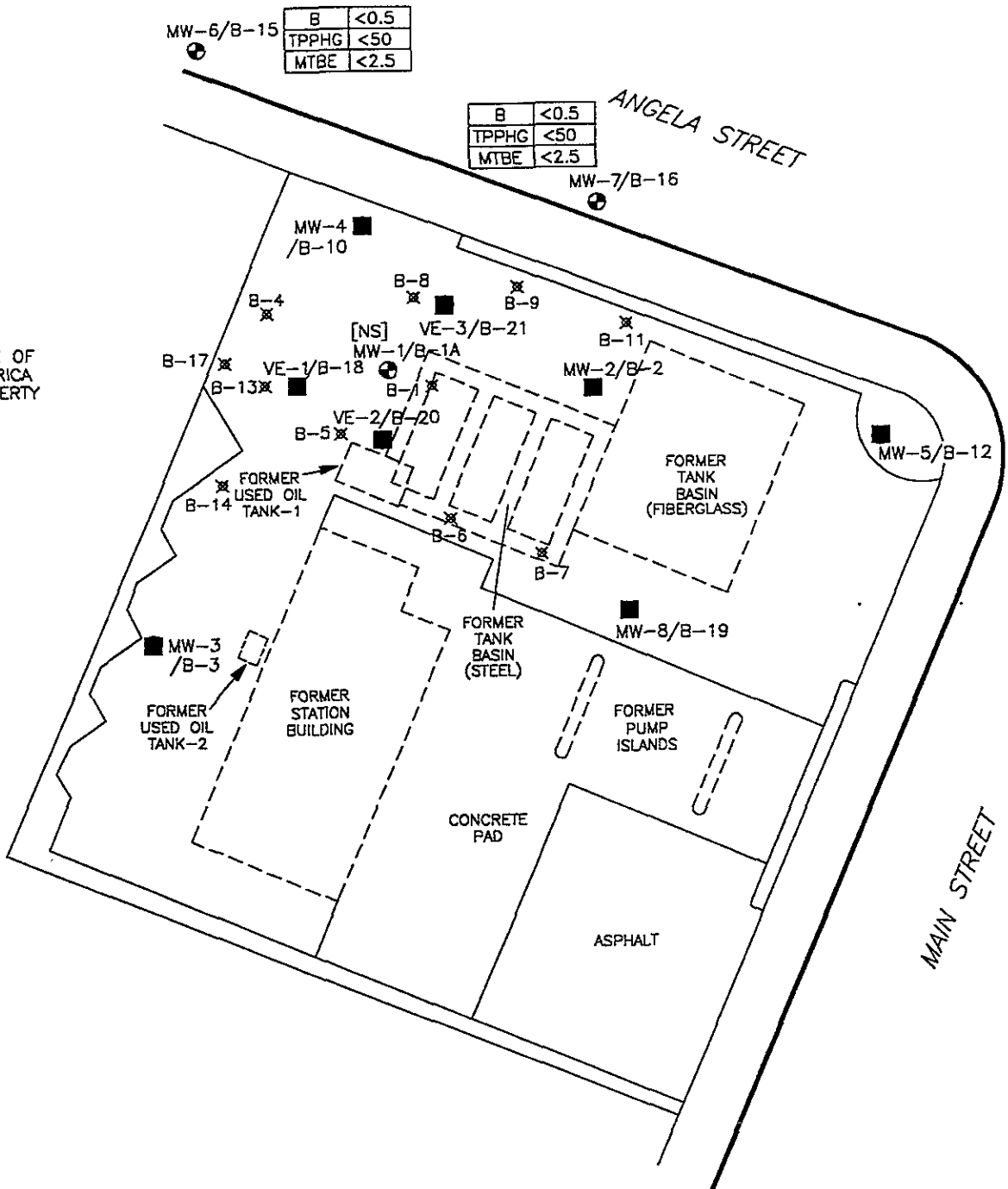
MTBE = Methyl tertiary butyl ether.

LPH = Liquid-phase petroleum hydrocarbons

NA = Not analyzed.

NM = Not measured.





LEGEND:

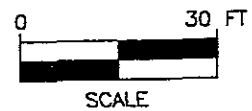
- ⊙ VE-1 VAPOR EXTRACTION WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- MW-2 DESTROYED MONITORING WELL LOCATION
- VE-1 DESTROYED VAPOR EXTRACTION WELL LOCATION
- ⊗ B-1 SOIL BORING LOCATION

B	<0.5
TPPHG	<50
MTBE	<2.5

BENZENE  
 TOTAL PURGABLE PETROLEUM  
 HYDROCARBONS AS GASOLINE  
 METHYL TERTIARY BUTYL ETHER  
 (EPA METHOD 8020)


NS NOT SAMPLED  
 NA NOT ANALYZED

CONCENTRATIONS MEASURED IN MICROGRAMS  
 PER LITER (ug/L)



**FIGURE 1**  
 DISSOLVED PETROLEUM HYDROCARBON  
 CONSTITUENTS MAP - 6/30/99  
 EXXON STATION NO. 7-7003  
 349 MAIN STREET  
 PLEASANTON, CA.

PROJECT NO. 0094-838	DRAWN BY M.L. 7/21/99
FILE NO. 94-838-1	PREPARED BY JWS
REVISION NO. 1	REVIEWED BY <i>[Signature]</i>



**Delta**  
Environmental  
Consultants, Inc.

**ENCLOSURE A**

Field Methods and Procedures

**BLAINE TECH SERVICES, INC.  
METHODS AND PROCEDURES  
FOR THE ROUTINE MONITORING OF  
GROUNDWATER WELLS AT EXXON STATIONS**

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling -water - 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

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**SAMPLING PROCEDURES OVERVIEW**

**SAFETY**

All groundwater monitoring assignments performed for Exxon comply with Exxon's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40 hour 29 CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Exxon site.

**INSPECTION AND GAUGING**

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic sounders which are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of Immiscibles or sheen and when liquid-phase petroleum hydrocarbons (LPH) are suspected, it is confirmed using an electronic interface probe (e.g. MMC). If sheen or LPH is found in a well, the Project Coordinator notifies the appropriate party (e.g. Exxon employee or consultant).

No samples are collected from a well containing sheen or LPH.

**EVACUATION**

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

### PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

### DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not recharge.

Wells known to dewater are evacuated as early as possible during each site visit in order to allow for the greatest amount of recovering. Any well that does not recharge to 80% of its original volume will be sampled prior to the departure of our personnel from the site in order to eliminate the need of a return visit.

In jurisdictions where a certain percentage of recovery is included in the local completion standard, our personnel follow the regulatory expectation.

### PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to an Exxon approved disposal facility (e.g. Romac Environmental Technologies Corporation in East Palo Alto, California).

### SAMPLE COLLECTION DEVICES

All samples are collected using a disposable bailer.

### SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory which will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container,

material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

### TRIP BLANKS

A Trip Blank is carried to each site and is kept inside the cooler for the duration of the sampling event. It is turned over to the laboratory for analysis with the samples from that site.

### SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the analytical laboratory that will perform the intended analytical procedures. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

### DOCUMENTATION CONVENTIONS

Each and every sample container has a label affixed to it. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the station number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time at which the sample was collected and the initials of the person collecting the sample are handwritten onto the label.

Chain-of-custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous pergwewater is generated. Field Technicians use preprinted Bill of Lading forms.

### DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer which is then operated with high quality deionized water which is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, sounder etc.) that cannot be washed using the hot high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

EXAMPLE: The sounder is cleaned between wells using the non-phosphate soap and deionized water solution followed by deionized water rinses. The sounder is then washed with the steam cleaner between sites or as necessitated by use in a particularly contaminated well.

## DISSOLVED OXYGEN READINGS

All Dissolved Oxygen readings are taken using YSI meters (e.g. YSI Model 58 or equivalent YSI meter). These meters are equipped with a YSI stirring device that enables them to collect accurate in-situ readings. The probe/stirring devices are modified to allow downhole measurements to be taken from wells as small as two-inch diameter.

The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe and stirrer is lowered into the water column allowed to stabilize before use.

## OXIDATION REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual. In use the probe is placed in a cup of freshly obtained monitoring well water and allowed to stabilize.

**ENCLOSURE B**

Field Sampling Data Sheets





## EXXON WELL MONITORING DATA SHEET

Project #: <u>990630-XI</u>	Job #: <u>7-7003</u>
Sampler: <u>1A-C</u>	Date: <u>6-30-99</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u>    </u>
Total Well Depth: <u>57.85</u>	Depth to Water: <u>26.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Middleburg <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

<u>21.3</u>	X	<u>3</u>	=	<u>53.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>7:23</u>	<u>69.6</u>	<u>6.7</u>	<u>1100</u>		<u>21.0</u>	
<u>7:26</u>	<u>68.9</u>	<u>6.8</u>	<u>931</u>		<u>42.0</u>	
<u>7:29</u>	<u>68.8</u>	<u>6.9</u>	<u>897</u>		<u>54.0</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>540</u>
Sampling Time: <u>7:37</u>	Sampling Date: <u>6-30-99</u>
Sample I.D.: <u>MW-6</u>	Laboratory: <u>Sequoia</u> Other _____
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH-D Other:	
D.O. (if req'd):	Pre-purge: <span style="float: right;">mg/L</span>
O.R.P. (if req'd):	Pre-purge: <span style="float: right;">mV</span>

## EXXON WELL MONITORING DATA SHEET

Project #: <u>990630-EX</u>	Job #: <u>7-7003</u>
Sampler: <u>16.C.</u>	Date: <u>6-30-99</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>44.72</u>	Depth to Water: <u>20.38</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:	Sampling Method:
<input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Middleburg <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____

<u>15.25</u>	X	<u>3</u>	=	<u>46.5</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
7:00	70.0	6.3	1147		15	
7:02	68.6	6.4	1074		30	
7:04	68.4	6.7	1048		47	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: <u>47</u>
Sampling Time: <u>7:11</u>	Sampling Date: <u>6-30-99</u>
Sample I.D.: <u>MW-7</u>	Laboratory: <u>Sequoia</u> Other _____
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH-D Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

**ENCLOSURE C**

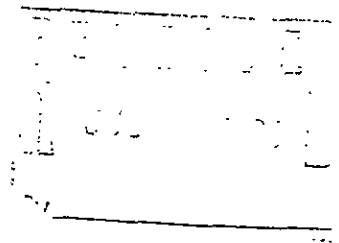
Ground Water Laboratory Analytical Report



# Sequoia Analytical

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308

July 16, 1999



Jim Brownell  
Delta Environmental (Exxon)  
3164 Gold Camp Drive, #200  
Rancho Cordova, CA 95670

RE: Exxon 7-7003/M907154

Dear Jim Brownell

Enclosed are the results of analyses for sample(s) received by the laboratory on July 1, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Project Manager

CA ELAP Certificate Number 1210





Delta Environmental (Exxon)  
3164 Gold Camp Drive, #200  
Rancho Cordova, CA 95670

Project: Exxon  
Project Number: 7-7003  
Project Manager: Jim Brownell

Sampled: 6/30/99  
Received: 7/1/99  
Reported: 7/16/99

**ANALYTICAL REPORT FOR M907154**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-6	M907154-01	Water	6/30/99
MW-7	M907154-02	Water	6/30/99





Delta Environmental (Exxon) 3164 Gold Camp Drive, #200 Rancho Cordova, CA 95670	Project: Exxon Project Number: 7-7003 Project Manager: Jim Brownell	Sampled: 6/30/99 Received: 7/1/99 Reported: 7/16/99
---	---	---

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>M907154-01</u>			<u>Water</u>	
Purgeable Hydrocarbons	9070432	7/14/99	7/14/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		99.4	%	
				<u>M907154-02</u>			<u>Water</u>	
Purgeable Hydrocarbons	9070432	7/14/99	7/14/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		91.9	%	





Delta Environmental (Exxon)  
3164 Gold Camp Drive, #200  
Rancho Cordova, CA 95670

Project: Exxon  
Project Number: 7-7003  
Project Manager: Jim Brownell

Sampled: 6/30/99  
Received: 7/1/99  
Reported: 7/16/99

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9070432</b>			<b>Date Prepared: 7/14/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>					
<b>Blank</b>			<b>9070432-BLK1</b>							
Purgeable Hydrocarbons	7/14/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		9.96	"	70.0-130	99.6			
<b>CS</b>			<b>9070432-BS1</b>							
Benzene	7/14/99	10.0		9.09	ug/l	70.0-130	90.9			
Toluene	"	10.0		8.74	"	70.0-130	87.4			
Ethylbenzene	"	10.0		9.18	"	70.0-130	91.8			
Xylenes (total)	"	30.0		27.2	"	70.0-130	90.7			
Surrogate: <i>c,a,a</i> -Trifluorotoluene	"	10.0		9.76	"	70.0-130	97.6			
<b>Matrix Spike</b>			<b>9070432-MS1 M907154-01</b>							
Benzene	7/14/99	10.0	ND	8.78	ug/l	60.0-140	87.8			
Toluene	"	10.0	ND	8.42	"	60.0-140	84.2			
Ethylbenzene	"	10.0	ND	8.75	"	60.0-140	87.5			
Xylenes (total)	"	30.0	ND	25.9	"	60.0-140	86.3			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		9.34	"	70.0-130	93.4			
<b>Matrix Spike Dup</b>			<b>9070432-MSD1 M907154-01</b>							
Benzene	7/14/99	10.0	ND	8.55	ug/l	60.0-140	85.5	25.0	2.65	
Toluene	"	10.0	ND	8.18	"	60.0-140	81.8	25.0	2.89	
Ethylbenzene	"	10.0	ND	8.49	"	60.0-140	84.9	25.0	3.02	
Xylenes (total)	"	30.0	ND	25.3	"	60.0-140	84.3	25.0	2.34	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		8.24	"	70.0-130	82.4			





Delta Environmental (Exxon)  
3164 Gold Camp Drive, #200  
Rancho Cordova, CA 95670

Project: Exxon  
Project Number: 7-7003  
Project Manager: Jim Brownell

Sampled: 6/30/99  
Received: 7/1/99  
Reported: 7/16/99

## Notes and Definitions

### Note

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- R Not Reported
- dry Sample results reported on a dry weight basis
- recov. Recovery
- RPD Relative Percent Difference







sequoia  
lytica  
680 Chesapeake Dr.  
Redwood City, CA 94063  
(650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

Consultant's Name: Delta Environmental / Exxon

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Address: 3164 Gold Camp Dr. Suite 200 Rancho Cordova, CA 95670

Site Location: 349 Main, Pleasanton

Project #: 990630-X1

Consultant Project #: D094-838

Consultant Work Release #:

Project Contact: Jim Brownell

Phone #: (916) 638-2765

Laboratory Work Release #:

EXXON Contact: Marla Guensler

Phone #: (925) 246-8776

EXXON RAS #: 7-7003

Sampled by (print): Kevin Callin

Sampler's Signature: *Kevin Callin*

Shipment Method:

Air Bill #:

M907N4

TAT:  24 hr  48 hr  72 hr  96 hr  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 (8020)	Temperature: _____	
											Inbound Seal: Yes No	Outbound Seal: Yes No
MW-6	6:30-99	7:37	WATER		5	01	X			X		
MW-7	↓	7:11	↓		↓	02	X			X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<i>Kevin Callin</i> / BTS	7/1/99	9:15	<i>C. Brudvik</i>	7/1	9:17	
<i>C. Brudvik</i>			<i>Kevin Callin</i>	7/1/99	14:45	

White - Sequoia Yellow - Sequoia Pink - Client