ALTON GEOSCIENCE

October 15, 1997

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

Alton Project 41-0114

RE: FORMER MOBIL STATION 04-FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

Dear Mr. Seery:

Please find enclosed the Third Quarter 1997 Progress Report for the subject location prepared for Mobil Oil Corporation by Alton Geoscience. The contents of this report include:

Quarterly Progress Report Summary Sheet
Exhibit 1: Sampling Schedule
Exhibit 2: Groundwater Levels and Chemical Analysis Table
Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevation Contour Map, Dissolved-Phase Benzene Concentrations)
Exhibit 4: Benzene versus Groundwater Elevation Graphs
Exhibit 5: Well Purging and Groundwater Sampling Protocol
Exhibit 6: Monitoring Well Sampling Forms
Exhibit 7: Analytical Laboratory Data Sheets
Exhibit 8: Waste Disposal Manifests

If you have any questions regarding this report, please call Ms. Cherine Foutch, Mobil Engineer, at (510) 625-1173, or Tom Seeliger, Alton Geoscience Geologist, at (510) 606-9150.

Sincerely,

ALTON GEOSCIENCE

Tom Seeliger kg

Tom Seeliger
Project Geologist

cc: Ms. Cherine Foutch, Mobil Oil Corporation
Mr. Steven Ritchie, California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Bertram Kubo
Mr. Fuk K. Sit and Ms. Ying C. Sit

P:\...\04FGN08.QMS

304 Lindbergh Avenue
Livermore, California 94550
(510) 606-9150 • FAX (510) 606-9260

ALTON GEOSCIENCE

Quarterly Progress Report Summary Sheet
Third Quarter 1997

Mobil Service Station 04-FGN
14994 East 14th Street
San Leandro, California

LOP Agency: Alameda County Health Care Services Agency

Number of water zones:	**1**	**This Page**	**1**
FIELD ACTIVITY:		Date Sampled:	**10-Sep-97**
Number of ground water wells on-site:	**5**	Ground Water Wells monitored:	**7**
Number of ground water wells off-site:	**2**	Ground Water Wells sampled:	**4**
		Ground Water Wells with Free Product:	**0**
Phase of Investigation: Vadose Zone	**N/A**	Ground Water Phase:	**Monitor & Sample**
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			**11.0 feet**
Approximate elevation of potentiometric surface above Mean Sea Level:			**25.8 feet**
Average Increase/Decrease in ground water elevations since last sampling episode:			**1.7 foot decrease**
Approximate flow direction and hydraulic gradient:			**South at 0.002 foot/foot**
GROUND WATER CONTAMINATION (BENZENE MCL=1.0 ppb):			
Wells containing free product:	**0**	Range in Thickness of Free Product:	**N/A**
Number of wells with concentrations below MCL:	**1**	Volume of Free Product Recovered This Period:	**N/A**
Number of wells with concentrations at or above MCL:	**3**	Volume of Free Product Recovered To Date:	**N/A**
Nature of contamination:	**Gasoline**	Range in Concentrations:	**Benzene:ND to 64 ppb**
			TPH-G: ND to 7,800 ppb

ADDITIONAL INFORMATION:

Monitoring Wells MW-4A, MW-5A, and MW-6A are sampled annually, and MW-1A, MW-2A, MW-3A and MW-7A are Sampled semi-annually
Purged water was transported to McKittrick Waste Treatment Facility for disposal.
Unocal wells were monitored on August 5, 1997 by MPDS.

Prepared by: _____ Chris Smiga, Environmental Technician

Approved by: _____ Matthew W. Katen, RG, CHG, Senior Associate
California RG 5167

Alton Project No: 41-0114

Submittal Date: 10/15/97

REGISTERED GEOLOGIST
MATTHEW W KATEN
NO. 5167
STATE OF CALIFORNIA

EXHIBIT 1

SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1997-98
Former Mobil Station 04-FGN

Well Number	Second Quarter 1997	Third Quarter 1997	Fourth Quarter 1997	First Quarter 1998	Second Quarter 1998
MW-1A	X	X		X	
MW-2A	X	X		X	
MW-3A	X	X		X	
MW-4A	X				
MW-5A				X	
MW-6A				X	
MW-7A	X	X		X	
NOTE: X = Well scheduled for sampling.					

EXHIBIT 2

GROUNDWATER LEVELS AND CHEMICAL ANALYSIS TABLE

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MOBIL Wells															
MW-1A	03/31/88	36.35	—	—	29,000	ND	ND	ND	550	640	—	—	ND	—	—
MW-1A	01/31/89	36.35	—	—	11,200	—	260	ND	500	500	—	—	—	—	—
MW-1A	02/24/94	36.35	9.42	26.93	11,000	2,500	70	ND	260	180	—	—	ND	—	—
MW-1A	08/03/94	36.35	12.00	24.35	13,000	7,100	61	50	280	230	—	—	ND	—	—
MW-1A	11/23/94	36.35	11.18	25.17	12,000	2,500	49	ND	300	190	—	—	10,000	—	—
MW-1A	02/28/95	36.35	9.08	27.27	10,000	3,200	25	ND	110	67	—	—	8,400	—	—
MW-1A	05/10/95	36.35	8.33	28.02	10,000	3,600	31	ND	140	81	—	—	7,200	—	—
MW-1A	08/02/95	36.63	9.49	27.14	10,000	3,800	24	18	130	80	—	—	—	—	—
MW-1A	11/02/95	36.63	11.05	25.58	12,000	3400*	ND	ND	190	150	—	—	—	ND	—
MW-1A	02/08/96	36.63	7.55	29.08	8,000	3,600*	100	21	87	58	—	—	—	—	—
MW-1A	05/08/96	36.63	7.52	29.11	9,200	—	11	ND	120	64	—	—	—	—	—
MW-1A	08/09/96	36.63	9.63	27.00	—	—	—	—	—	—	—	—	—	—	—
MW-1A	08/20/96	36.63	—	—	6,800	—	64	22	100	55	130	ND	—	—	—
MW-1A	11/07/96	36.63	11.01	25.62	7,900	—	100	12	70	34	95	ND	—	—	—
MW-1A	02/10/97	36.63	7.58	29.05	5,800	—	36	15	67	29	58	ND	—	—	—
MW-1A	05/07/97	36.63	9.15	27.48	1,400	—	13	ND	11	ND	ND	—	—	—	—
MW-1A	09/10/97	36.63	10.88	25.75	7,800	—	64	ND	70	26	120	ND	—	—	1.02
MW-2A	02/24/94	36.61	9.52	27.09	6,400	4,500	31	ND	58	42	—	—	ND	—	—
MW-2A	08/23/94	36.61	12.05	24.56	7,500	7,100	42	21	71	53	—	—	ND	—	—
MW-2A	11/23/94	36.61	11.25	25.36	7,000	1,800	33	11	39	ND	—	—	7,300	—	—
MW-2A	02/28/95	36.61	9.10	27.51	9,000	1,600	29	36	96	45	—	—	6,900	—	—
MW-2A	05/10/95	36.61	8.42	28.19	5,100	1,600	20	27	32	35	—	—	3,400	—	—
MW-2A	08/02/95	36.62	9.54	27.08	4,300	1,800	36	ND	11	16	—	—	—	—	—
MW-2A	11/02/95	36.62	11.08	25.54	4,300	3000*	22	ND	10	11	—	—	—	ND	—
MW-2A	02/08/96	36.62	7.68	28.94	2,900	940*	32	13	13	ND	—	—	—	—	—
MW-2A	05/08/96	36.62	8.64	27.98	2,500	—	13	12	19	26	—	—	—	—	—
MW-2A	08/09/96	36.62	9.71	26.91	—	—	—	—	—	—	—	—	—	—	—
MW-2A	08/20/96	36.62	—	—	2,500	—	19	11	6.8	8.1	36	—	—	—	—
MW-2A	11/07/96	36.62	11.04	25.58	4,700	—	58	7.3	5.3	ND	55	—	—	—	—
MW-2A	02/10/97	36.62	7.75	28.87	2,600	—	12	10	35	15	ND	—	—	—	—
MW-2A	05/07/97	36.62	9.23	27.39	3,300	—	25	18	16	11	ND	—	—	—	—
MW-2A	09/10/97	36.62	10.91	25.71	2,800	—	24	ND	ND	ND	43	—	—	—	1.08
MW-3A	02/24/94	36.92	9.85	27.07	19,000	10,000	52	30	690	290	—	—	ND	—	—
MW-3A	08/23/94	36.92	12.33	24.59	14,000	11,000	44	24	1,000	100	—	—	ND	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MW-3A	11/23/94	36.92	11.56	25.36	13,000	2,600	30	18	690	52	—	—	8,500	—	—
MW-3A	02/28/95	36.92	9.35	27.57	8,500	—	11	ND	340	24	—	—	5,500	—	—
MW-3A	05/10/95	36.92	8.55	28.37	7,600	3,800	ND	ND	400	45	—	—	3,900	—	—
MW-3A	08/02/95	36.93	9.75	27.18	9,200	3,800	17	13	340	34	—	—	—	—	—
MW-3A	11/02/95	36.93	11.29	25.64	9,200	4400*	31	ND	360	72	—	—	—	ND	—
MW-3A	02/08/96	36.93	7.97	28.96	6,900	3,800*	38	ND	230	43	—	—	—	—	—
MW-3A	05/08/96	36.93	8.82	28.11	7,700	—	ND	ND	270	38	—	—	—	—	—
MW-3A	08/09/96	36.93	9.95	26.98	—	—	—	—	—	—	—	—	—	—	—
MW-3A	08/20/96	36.93	—	—	5,600	—	8.0	29	180	23	12	—	—	—	—
MW-3A	11/07/96	36.93	11.28	25.65	8,600	—	47	ND	150	29	ND	—	—	—	—
MW-3A	02/10/97	36.93	7.95	28.98	8,300	—	28	ND	130	23	ND	—	—	—	—
MW-3A	05/07/97	36.93	9.45	27.48	37,000	—	230	110	630	ND	ND	—	—	—	—
MW-3A	09/10/97	36.93	11.13	25.80	5,500	—	16	ND	75	11	ND	—	—	—	0.68
MW-4A	08/02/95	37.18	9.63	27.55	ND	ND	ND	ND	ND	ND	—	—	—	—	—
MW-4A	11/02/95	37.18	11.48	25.70	ND	ND	ND	ND	ND	ND	—	—	—	ND	—
MW-4A	02/08/96	37.18	8.18	29.00	ND	ND	ND	1.1	ND	0.92	—	—	—	—	—
MW-4A	05/08/96	37.18	8.49	28.69	ND	—	ND	ND	ND	ND	—	—	—	—	—
MW-4A	08/09/96	37.18	10.05	27.13	—	—	—	—	—	—	—	—	—	—	—
MW-4A	08/20/96	37.18	—	—	ND	—	ND	ND	ND	ND	ND	—	—	—	—
MW-4A	11/07/96	37.18	11.48	25.70	ND	—	ND	ND	ND	0.88	ND	—	—	—	—
MW-4A	02/10/97	37.18	8.11	29.07	ND	—	ND	2.4	ND	ND	ND	—	—	—	—
MW-4A	05/07/97	37.18	9.64	27.54	ND	—	ND	ND	ND	ND	ND	—	—	—	—
MW-4A	09/10/97	37.18	11.32	25.86	—	—	—	—	—	—	—	—	—	—	2.37
MW-5A	08/02/95	35.91	8.74	27.17	1,300	220	16	0.68	1.3	4.3	—	—	—	—	—
MW-5A	11/02/95	35.91	10.34	25.57	180	ND	1.9	1.2	ND	ND	—	—	—	ND	—
MW-5A	02/08/96	35.91	6.67	29.24	160	150	1.9	2.2	ND	0.89	—	—	—	—	—
MW-5A	05/08/96	35.91	7.35	28.56	260	—	2.4	6.7	2.0	9.6	—	—	—	—	—
MW-5A	08/09/96	35.91	8.81	27.10	—	—	—	—	—	—	—	—	—	—	—
MW-5A	08/20/96	35.91	—	—	ND	—	ND	1.8	ND	ND	9.4	—	—	—	—
MW-5A	11/07/96	35.91	10.25	25.66	—	—	—	—	—	—	—	—	—	—	—
MW-5A	02/10/97	35.91	6.93	28.98	ND	—	ND	1.2	ND	ND	ND	—	—	—	—
MW-5A	05/07/97	35.91	8.42	27.49	—	—	—	—	—	—	—	—	—	—	—
MW-5A	09/10/97	35.91	10.15	25.76	—	—	—	—	—	—	—	—	—	—	1.05
MW-6A	08/02/95	37.10	9.68	27.42	ND	ND	ND	ND	ND	ND	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MW-6A	11/02/95	37.10	11.26	25.84	ND	ND	ND	ND	ND	ND	—	—	—	ND	—
MW-6A	02/08/96	37.10	7.79	29.31	ND	ND	ND	1.3	ND	1.3	—	—	—	—	—
MW-6A	05/08/96	37.10	8.38	28.72	ND	—	ND	1.6	ND	1.2	—	—	—	—	—
MW-6A	08/09/96	37.10	9.82	27.28	—	—	—	—	—	—	—	—	—	—	—
MW-6A	08/20/96	37.10	—	—	ND	—	ND	ND	ND	ND	ND	—	—	—	—
MW-6A	11/07/96	37.10	11.02	26.08	—	—	—	—	—	—	—	—	—	—	—
MW-6A	02/10/97	37.10	7.70	29.40	ND	—	ND	3.4	ND	ND	ND	—	—	—	—
MW-6A	05/07/97	37.10	9.31	27.79	—	—	—	—	—	—	—	—	—	—	—
MW-6A	09/10/97	37.10	11.08	26.02	—	—	—	—	—	—	—	—	—	—	1.08
MW-7A	11/02/95	37.39	11.77	25.62	ND	ND	ND	ND	ND	ND	—	—	—	ND	—
MW-7A	02/08/96	37.39	8.68	28.71	ND	75	ND	1.4	ND	1.5	—	—	—	—	—
MW-7A	05/08/96	37.39	9.00	28.39	ND	—	2.2	6.3	1.4	7.9	—	—	—	—	—
MW-7A	08/09/96	37.39	10.31	27.08	—	—	—	—	—	—	—	—	—	—	—
MW-7A	08/20/96	37.39	—	—	ND	—	ND	ND	ND	ND	ND	—	—	—	—
MW-7A	11/07/96	37.39	11.81	25.58	ND	—	ND	0.96	ND	1.6	ND	—	—	—	—
MW-7A	02/10/97	37.39	8.57	28.82	ND	—	ND	2.4	ND	ND	ND	—	—	—	—
MW-7A	05/07/97	37.39	10.05	27.34	ND	—	ND	ND	ND	ND	ND	—	—	—	—
MW-7A	09/10/97	37.39	11.66	25.73	ND	—	ND	ND	ND	ND	ND	—	—	—	2.48
UNOCAL Wells															
MW-1	08/23/93	—	—	—	24,000	—	160	110	840	810	—	—	—	—	—
MW-1	11/23/93	—	—	—	18,000	—	210	63	900	620	—	—	—	—	—
MW-1	02/24/94	36.37	9.45	26.92	18,000	—	74	30	940	480	—	—	—	—	—
MW-1	08/23/94	36.37	11.98	24.39	24,000	—	130	57	970	320	—	—	—	—	—
MW-1	11/23/94	36.37	11.17	25.20	—	—	—	—	—	—	—	—	—	—	—
MW-1	02/03/95	36.37	8.01	28.36	—	—	—	—	—	—	—	—	—	—	—
MW-1	05/10/95	36.37	8.51	27.86	—	—	—	—	—	—	—	—	—	—	—
MW-1	08/02/95	36.37	10.00	26.37	—	—	—	—	—	—	—	—	—	—	—
MW-1	11/02/95	36.37	11.11	25.26	—	—	—	—	—	—	—	—	—	—	—
MW-1	02/08/96	36.37	7.74	28.63	—	—	—	—	—	—	—	—	—	—	—
MW-1	05/08/96	36.37	8.50	27.87	—	—	—	—	—	—	—	—	—	—	—
MW-1	08/08/96	36.37	9.72	26.65	—	—	—	—	—	—	—	—	—	—	—
MW-1	11/07/96	36.37	10.74	25.63	—	—	—	—	—	—	—	—	—	—	—
MW-1	02/10/97	36.37	7.92	28.45	—	—	—	—	—	—	—	—	—	—	—
MW-1	05/07/97	36.37	9.24	27.13	—	—	—	—	—	—	—	—	—	—	—
MW-1	08/05/97	36.37	10.20	26.17											—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MW-2	08/23/93	—	—	—	15,000	—	110	ND	590	64	—	—	—	—	—
MW-2	11/23/93	—		—	11,000	—	80	10	480	20	—	—	—	—	—
MW-2	02/24/94	36.34	9.27	27.07	11,000	—	44	ND	580	32	—	—	—	—	—
MW-2	08/23/94	36.34	11.82	24.52	12,000	—	45	10	360	20	—	—	—	—	—
MW-2	11/23/94	36.34	10.97	25.37	—	—	—	—	—	—	—	—	—	—	—
MW-2	02/03/95	36.34	7.87	28.47	—	—	—	—	—	—	—	—	—	—	—
MW-2	05/10/95	36.34	8.38	27.96	—	—	—	—	—	—	—	—	—	—	—
MW-2	08/02/95	36.34	9.36	26.98	—	—	—	—	—	—	—	—	—	—	—
MW-2	11/02/95	36.34	10.95	25.39	—	—	—	—	—	—	—	—	—	—	—
MW-2	02/08/96	36.34	7.52	28.82	—	—	—	—	—	—	—	—	—	—	—
MW-2	05/08/96	36.34	8.21	28.13	—	—	—	—	—	—	—	—	—	—	—
MW-2	08/08/96	36.34	9.54	26.80	—	—	—	—	—	—	—	—	—	—	—
MW-2	11/07/96	36.34	10.69	25.65	—	—	—	—	—	—	—	—	—	—	—
MW-2	02/10/97	36.34	7.75	28.59	—	—	—	—	—	—	—	—	—	—	—
MW-2	05/07/97	36.34	9.14	27.20	—	—	—	—	—	—	—	—	—	—	—
MW-2	08/05/97	36.34	10.23	26.11	—	—	—	—	—	—	—	—	—	—	—
MW-3	08/23/93	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-3	11/23/93	—	—	—	2,900	—	25	ND	50	18	—	—	—	—	—
MW-3	02/24/94	36.42	9.21	27.21	2,300	—	34	ND	24	5.6	—	—	—	—	—
MW-3	08/23/94	36.42	11.88	24.54	3,400	—	46	ND	53	11	—	—	—	—	—
MW-3	11/23/94	36.42	10.98	25.44	2,900	—	37	49	14	2.9	—	—	—	—	—
MW-3	02/03/95	36.42	7.89	28.53	—	—	—	—	—	—	—	—	—	—	—
MW-3	05/10/95	36.42	8.38	28.04	—	—	—	—	—	—	—	—	—	—	—
MW-3	08/02/95	36.42	9.49	26.93	—	—	—	—	—	—	—	—	—	—	—
MW-3	11/02/95	36.42	11.00	25.42	—	—	—	—	—	—	—	—	—	—	—
MW-3	02/08/96	36.42	7.41	29.01	—	—	—	—	—	—	—	—	—	—	—
MW-3	05/08/96	36.42	8.20	28.22	—	—	—	—	—	—	—	—	—	—	—
MW-3	08/08/96	36.42	9.53	26.89	—	—	—	—	—	—	—	—	—	—	—
MW-3	11/07/96	36.42	10.96	25.46	—	—	—	—	—	—	—	—	—	—	—
MW-3	02/10/97	36.42	7.71	28.71	—	—	—	—	—	—	—	—	—	—	—
MW-3	05/07/97	36.42	9.17	27.25	—	—	—	—	—	—	—	—	—	—	—
MW-3	08/05/97	36.42	10.27	26.15	—	—	—	—	—	—	—	—	—	—	—
MW-4	08/23/93	—	—	—	1,200	—	5	ND	16	ND	—	—	—	—	—
MW-4	11/23/93	—	—	—	720	—	10	ND	8.7	ND	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MW-4	02/24/94	37.04	9.89	27.15	1,300	—	8.9	ND	20	ND	—	—	—	—	—
MW-4	08/23/94	37.04	12.57	24.47	690	—	9.2	1.3	7.1	1.9	—	—	—	—	—
MW-4	11/23/94	37.04	11.65	25.39	—	—	—	—	—	—	—	—	—	—	—
MW-4	02/03/95	37.04	8.52	28.52	—	—	—	—	—	—	—	—	—	—	—
MW-4	05/10/95	37.04	9.97	27.07	—	—	—	—	—	—	—	—	—	—	—
MW-4	08/02/95	37.04	10.18	26.86	—	—	—	—	—	—	—	—	—	—	—
MW-4	11/02/95	37.04	11.67	25.37	—	—	—	—	—	—	—	—	—	—	—
MW-4	02/08/96	37.04	8.15	28.89	—	—	—	—	—	—	—	—	—	—	—
MW-4	08/08/96	37.04	10.24	26.80	—	—	—	—	—	—	—	—	—	—	—
MW-4	11/07/96	37.04	11.58	25.46	—	—	—	—	—	—	—	—	—	—	—
MW-4	02/10/97	37.04	8.45	28.59	—	—	—	—	—	—	—	—	—	—	—
MW-4	05/07/97	37.04	9.85	27.19	—	—	—	—	—	—	—	—	—	—	—
MW-4	08/05/97	37.04	11.04	26.00	—	—	—	—	—	—	—	—	—	—	—
MW-5	08/23/93	—	—	—	61,000	—	340	380	3,600	14,000	—	—	—	—	—
MW-5	11/23/93	—	—	—	46,000	—	290	310	4,100	15,000	—	—	—	—	—
MW-5	02/24/94	35.94	9.02	26.92	57,000	—	140	400	4,400	16,000	—	—	—	—	—
MW-5	08/23/94	35.94	11.57	24.37	61,000	—	360	380	4,800	17,000	—	—	—	—	—
MW-5	11/23/94	35.94	10.71	25.23	—	—	—	—	—	—	—	—	—	—	—
MW-5	02/03/95	35.94	7.69	28.25	—	—	—	—	—	—	—	—	—	—	—
MW-5	05/10/95	35.94	8.2	27.74	—	—	—	—	—	—	—	—	—	—	—
MW-5	08/02/95	35.94	9.23	26.71	—	—	—	—	—	—	—	—	—	—	—
MW-5	11/02/95	35.94	10.70	25.24	—	—	—	—	—	—	—	—	—	—	—
MW-5	02/08/96	35.94	7.36	28.58	—	—	—	—	—	—	—	—	—	—	—
MW-5	05/08/96	35.94	8.25	27.69	—	—	—	—	—	—	—	—	—	—	—
MW-5	08/08/96	35.94	9.37	26.57	—	—	—	—	—	—	—	—	—	—	—
MW-5	11/07/96	35.94	10.65	25.29	—	—	—	—	—	—	—	—	—	—	—
MW-5	02/10/97	35.94	7.63	28.31	—	—	—	—	—	—	—	—	—	—	—
MW-5	05/07/97	35.94	8.98	26.96	—	—	—	—	—	—	—	—	—	—	—
MW-5	08/05/97	35.94	11.08	24.86	—	—	—	—	—	—	—	—	—	—	—
MW-6	08/23/93	—	—	—	1,000	—	9.4	2.3	5	2.3	—	—	—	—	—
MW-6	11/23/93	—	—	—	520	—	ND	1.7	1.9	0.82	—	—	—	—	—
MW-6	02/24/94	35.67	8.39	27.28	810	—	12	ND	2.6	0.77	—	—	—	—	—
MW-6	08/23/94	35.67	10.97	24.70	570	—	6.8	2.5	3.2	2.6	—	—	—	—	—
MW-6	11/23/94	35.67	10.21	25.46	—	—	—	—	—	—	—	—	—	—	—
MW-6	02/03/95	35.67	6.99	28.68	—	—	—	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MW-6	05/10/95	35.67	7.53	28.14	—	—	—	—	—	—	—	—	—	—	—
MW-6	08/02/95	35.67	8.68	26.99	—	—	—	—	—	—	—	—	—	—	—
MW-6	11/02/95	35.67	10.20	25.47	—	—	—	—	—	—	—	—	—	—	—
MW-6	02/08/96	35.67	6.66	29.01	—	—	—	—	—	—	—	—	—	—	—
MW-6	05/08/96	35.67	7.40	28.27	—	—	—	—	—	—	—	—	—	—	—
MW-6	08/08/96	35.67	8.72	26.95	—	—	—	—	—	—	—	—	—	—	—
MW-6	11/07/96	35.67	10.12	25.55	—	—	—	—	—	—	—	—	—	—	—
MW-6	02/10/97	35.67	6.88	28.79	—	—	—	—	—	—	—	—	—	—	—
MW-6	05/07/97	35.67	8.32	27.35	—	—	—	—	—	—	—	—	—	—	—
MW-6	08/05/97	35.67	9.64	26.03	—	—	—	—	—	—	—	—	—	—	—
MW-7	08/23/93	—	—	—	33,000	—	360	ND	2,500	4,300	—	—	—	—	—
MW-7	11/23/93	—	—	—	19,000	—	310	30	2,500	2,300	—	—	—	—	—
MW-7	02/24/94	36.09	8.95	27.14	16,000	—	220	19	2,400	3,200	—	—	—	—	—
MW-7	08/23/94	36.09	11.43	24.66	19,000	—	210	50	2,000	2,800	—	—	—	—	—
MW-7	11/23/94	36.09	10.69	25.40	—	—	—	—	—	—	—	—	—	—	—
MW-7	02/03/95	36.09	7.49	28.60	—	—	—	—	—	—	—	—	—	—	—
MW-7	05/10/95	36.09	7.88	28.21	—	—	—	—	—	—	—	—	—	—	—
MW-7	08/02/95	36.09	9.02	27.07	—	—	—	—	—	—	—	—	—	—	—
MW-7	11/02/95	36.09	10.55	25.54	—	—	—	—	—	—	—	—	—	—	—
MW-7	02/08/96	36.09	7.13	28.96	—	—	—	—	—	—	—	—	—	—	—
MW-7	05/08/96	36.09	7.11	28.98	—	—	—	—	—	—	—	—	—	—	—
MW-7	08/08/96	36.09	9.07	27.02	—	—	—	—	—	—	—	—	—	—	—
MW-7	11/07/96	36.09	10.76	25.33	—	—	—	—	—	—	—	—	—	—	—
MW-7	02/10/97	36.09	7.22	28.87	—	—	—	—	—	—	—	—	—	—	—
MW-7	05/07/97	36.09	8.47	27.62	—	—	—	—	—	—	—	—	—	—	—
MW-7	08/05/97	36.09	10.25	25.84	—	—	—	—	—	—	—	—	—	—	—
MW-8	08/23/93	—	—	—	280	—	49	4.5	ND	ND	—	—	—	—	—
MW-8	11/23/93	—	—	—	1,800	—	ND	3.4	ND	ND	—	—	—	—	—
MW-8	02/24/94	36.89	10.44	26.45	1,200	—	10	2.3	ND	3.2	—	—	—	—	—
MW-8	08/23/94	36.89	12.61	24.28	3,200	—	45	18	2	7.2	—	—	—	—	—
MW-8	11/23/94	36.89	11.98	24.91	—	—	—	—	—	—	—	—	—	—	—
MW-8	02/03/95	36.89	9.16	27.73	—	—	—	—	—	—	—	—	—	—	—
MW-8	05/10/95	36.89	9.35	27.54	—	—	—	—	—	—	—	—	—	—	—
MW-8	08/02/95	36.89	10.40	26.49	—	—	—	—	—	—	—	—	—	—	—
MW-8	11/02/95	36.89	11.80	25.09	—	—	—	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MW-8	02/08/96	36.89	8.98	27.91	—	—	—	—	—	—	—	—	—	—	—
MW-8	05/08/96	36.89	9.46	27.43	—	—	—	—	—	—	—	—	—	—	—
MW-8	08/08/96	36.89	10.47	26.42	—	—	—	—	—	—	—	—	—	—	—
MW-8	11/07/96	36.89	11.71	25.18	—	—	—	—	—	—	—	—	—	—	—
MW-8	02/10/97	36.89	8.84	28.05	—	—	—	—	—	—	—	—	—	—	—
MW-8	05/07/97	36.89	10.12	26.77	—	—	—	—	—	—	—	—	—	—	—
MW-8	08/05/97	36.89	11.26	25.63	—	—	—	—	—	—	—	—	—	—	—
MW-9	08/23/93	—	—	—	3,000	—	29	ND	ND	ND	—	—	—	—	—
MW-9	11/23/93	—	—	—	2,500	—	23	2.1	ND	ND	—	—	—	—	—
MW-9	02/24/94	36.29	9.74	26.55	2,900	—	35	ND	ND	ND	—	—	—	—	—
MW-9	08/23/94	36.29	11.99	24.30	2,800	—	28	32	ND	ND	—	—	—	—	—
MW-9	11/23/94	36.29	11.31	24.98	—	—	—	—	—	—	—	—	—	—	—
MW-9	02/03/95	36.29	8.45	27.84	—	—	—	—	—	—	—	—	—	—	—
MW-9	08/02/95	36.29	7.95	28.34	—	—	—	—	—	—	—	—	—	—	—
MW-9	11/02/95	36.29	11.16	25.13	—	—	—	—	—	—	—	—	—	—	—
MW-9	02/08/96	36.29	8.15	28.14	—	—	—	—	—	—	—	—	—	—	—
MW-9	05/08/96	36.29	8.75	27.54	—	—	—	—	—	—	—	—	—	—	—
MW-9	08/08/96	36.29	9.84	26.45	—	—	—	—	—	—	—	—	—	—	—
MW-9	11/07/96	36.29	11.10	25.19	—	—	—	—	—	—	—	—	—	—	—
MW-9	02/10/97	36.29	8.15	28.14	—	—	—	—	—	—	—	—	—	—	—
MW-9	05/07/97	36.29	9.45	26.84	—	—	—	—	—	—	—	—	—	—	—
MW-9	08/05/97	36.29	10.70	25.59	—	—	—	—	—	—	—	—	—	—	—
MW-10	08/23/93	—	—	—	20,000	—	230	13	3,200	140	—	—	—	—	—
MW-10	11/23/93	—	—	—	18,000	—	300	10	2,800	110	—	—	—	—	—
MW-10	02/24/94	36.04	9.57	26.47	15,000	—	330	19	2,000	83	—	—	—	—	—
MW-10	08/23/94	36.04	11.81	24.23	16,000	—	250	41	1,800	74	—	—	—	—	—
MW-10	11/23/94	36.04	11.10	24.94	—	—	—	—	—	—	—	—	—	—	—
MW-10	02/03/95	36.04	8.32	27.72	—	—	—	—	—	—	—	—	—	—	—
MW-10	08/02/95	36.04	9.55	26.49	—	—	—	—	—	—	—	—	—	—	—
MW-10	11/02/95	36.04	11.03	25.01	—	—	—	—	—	—	—	—	—	—	—
MW-10	02/08/96	36.04	8.05	27.99	—	—	—	—	—	—	—	—	—	—	—
MW-10	05/08/96	36.04	8.70	27.34	—	—	—	—	—	—	—	—	—	—	—
MW-10	08/08/96	36.04	9.76	26.28	—	—	—	—	—	—	—	—	—	—	—
MW-10	11/07/96	36.04	10.92	25.12	—	—	—	—	—	—	—	—	—	—	—
MW-10	02/10/97	36.04	8.10	27.94	—	—	—	—	—	—	—	—	—	—	—

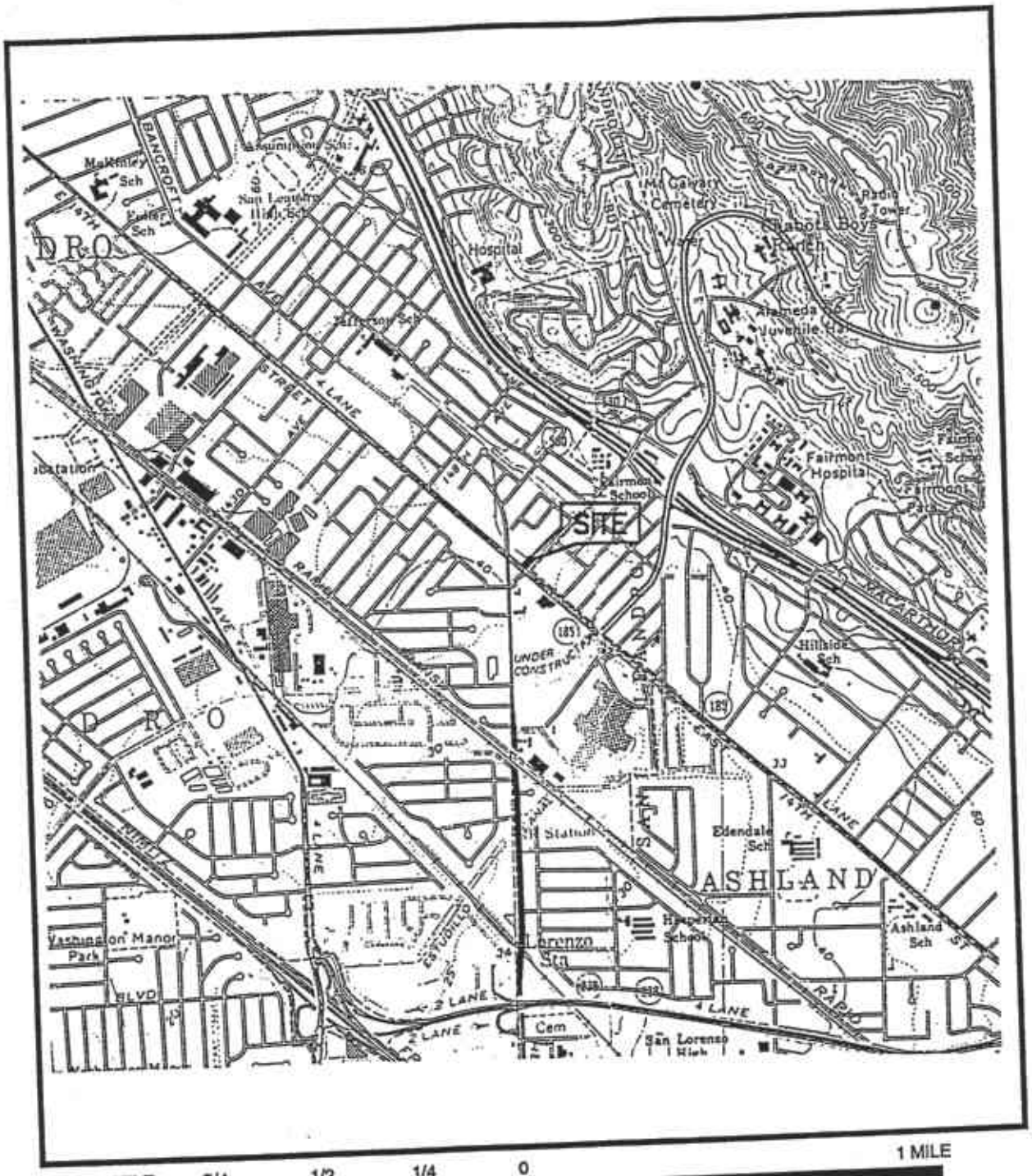
Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	TRPO (ppm)	Dissolved Oxygen (mg/L)
MW-10	05/07/97	36.04	9.28	26.76	—	—	—	—	—	—	—	—	—	—	—
MW-10	08/05/97	36.04	10.51	25.53	—	—	—	—	—	—	—	—	—	—	—
MW-11	08/23/93	—	—	—	5,400	—	68	ND	230	43	—	—	—	—	—
MW-11	11/23/93	—	—	—	3,400	—	105	ND	120	43	—	—	—	—	—
MW-11	02/24/94	35.50	9.20	26.30	4,600	—	170	ND	140	36	—	—	—	—	—
MW-11	08/23/94	35.50	11.39	24.11	7,300	—	250	13	150	42	—	—	—	—	—
MW-11	11/23/94	35.50	10.67	24.83	—	—	—	—	—	—	—	—	—	—	—
MW-11	02/03/95	35.50	8.02	27.48	—	—	—	—	—	—	—	—	—	—	—
MW-11	08/02/95	35.50	9.31	26.19	—	—	—	—	—	—	—	—	—	—	—
MW-11	11/02/95	35.50	10.85	24.65	—	—	—	—	—	—	—	—	—	—	—
MW-11	02/08/96	35.50	7.76	27.74	—	—	—	—	—	—	—	—	—	—	—
MW-11	05/08/96	35.50	8.50	27.00	—	—	—	—	—	—	—	—	—	—	—
MW-11	08/08/96	35.50	9.46	26.04	—	—	—	—	—	—	—	—	—	—	—
MW-11	11/07/96	35.50	10.58	24.92	—	—	—	—	—	—	—	—	—	—	—
MW-11	02/10/97	35.50	7.88	27.62	—	—	—	—	—	—	—	—	—	—	—
MW-11	05/07/97	35.50	9.07	26.43	—	—	—	—	—	—	—	—	—	—	—
MW-11	08/05/97	35.50	10.23	25.27	—	—	—	—	—	—	—	—	—	—	—

NOTES:

ppb = parts per billion
ppm = parts per million
mg/L = milligrams per liter
TPH-G = total petroleum hydrocarbons as gasoline
TPH-D = total petroleum hydrocarbons as diesel
MTBE = methyl-tert butyl ether
ND = not detected at or above method detection limit
TRPO = total recoverable petroleum oil
— = not analyzed or not provided
TOG = total oil and grease
* = Unidentified hydrocarbons <C10



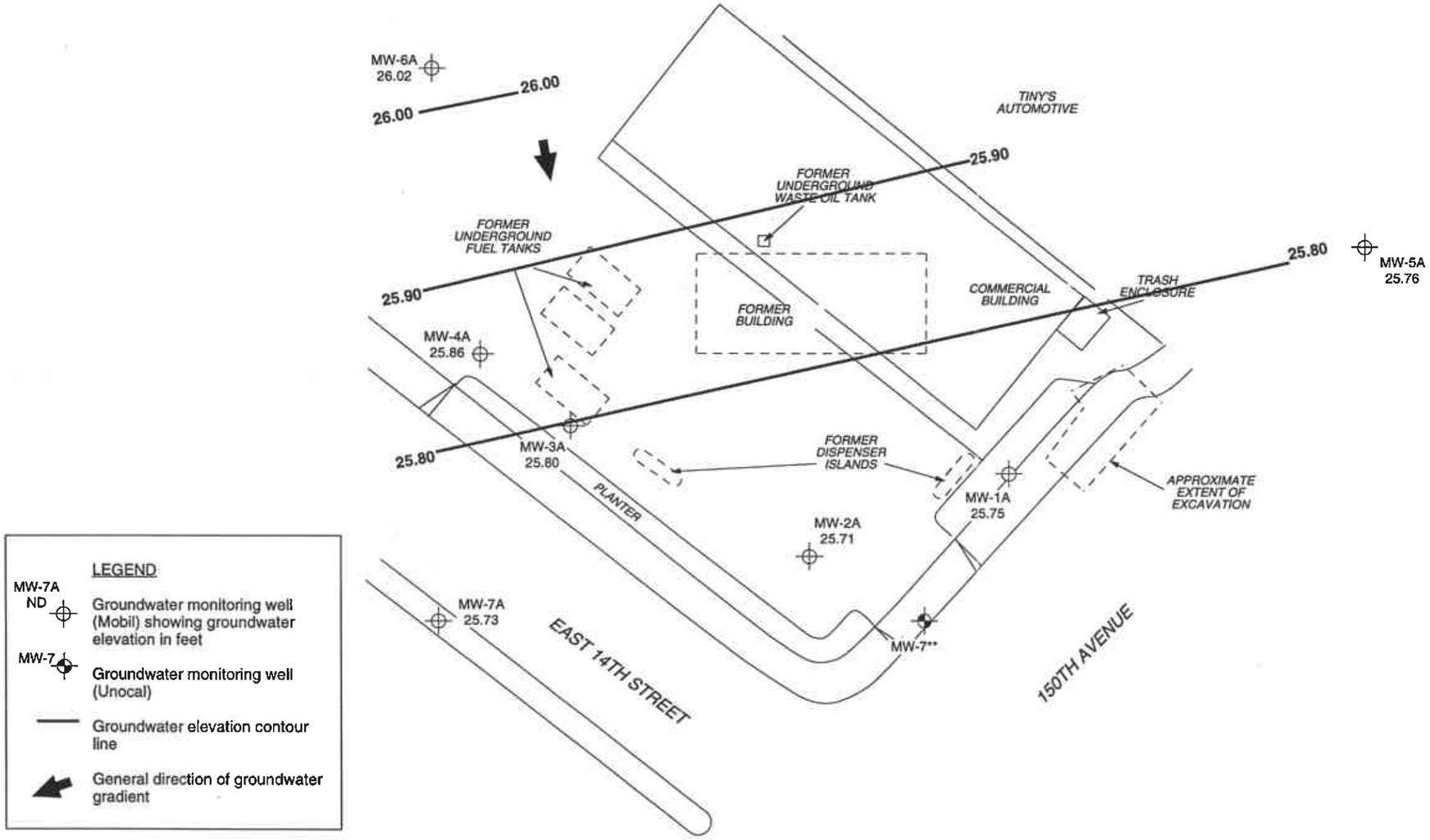
Source: U.S.G.S. Map
Hayward & San Leandro
Quadrangles
California
7.5 Minute Series

VICINITY MAP

Former Mobil Station 04-FGN
14994 East 14th Street
San Leandro, California

ALTON GEOSCIENCE
Livermore, California

FIGURE 1



NOTES:
Results are based on fluid levels of groundwater wells measured September 10, 1997. ** = data not provided for Unocal wells. Contour interval = 0.10 foot. * = well sampled annually.

ALTON GEOSCIENCE
Livermore, California

SOURCE: Alisto Engineering Group

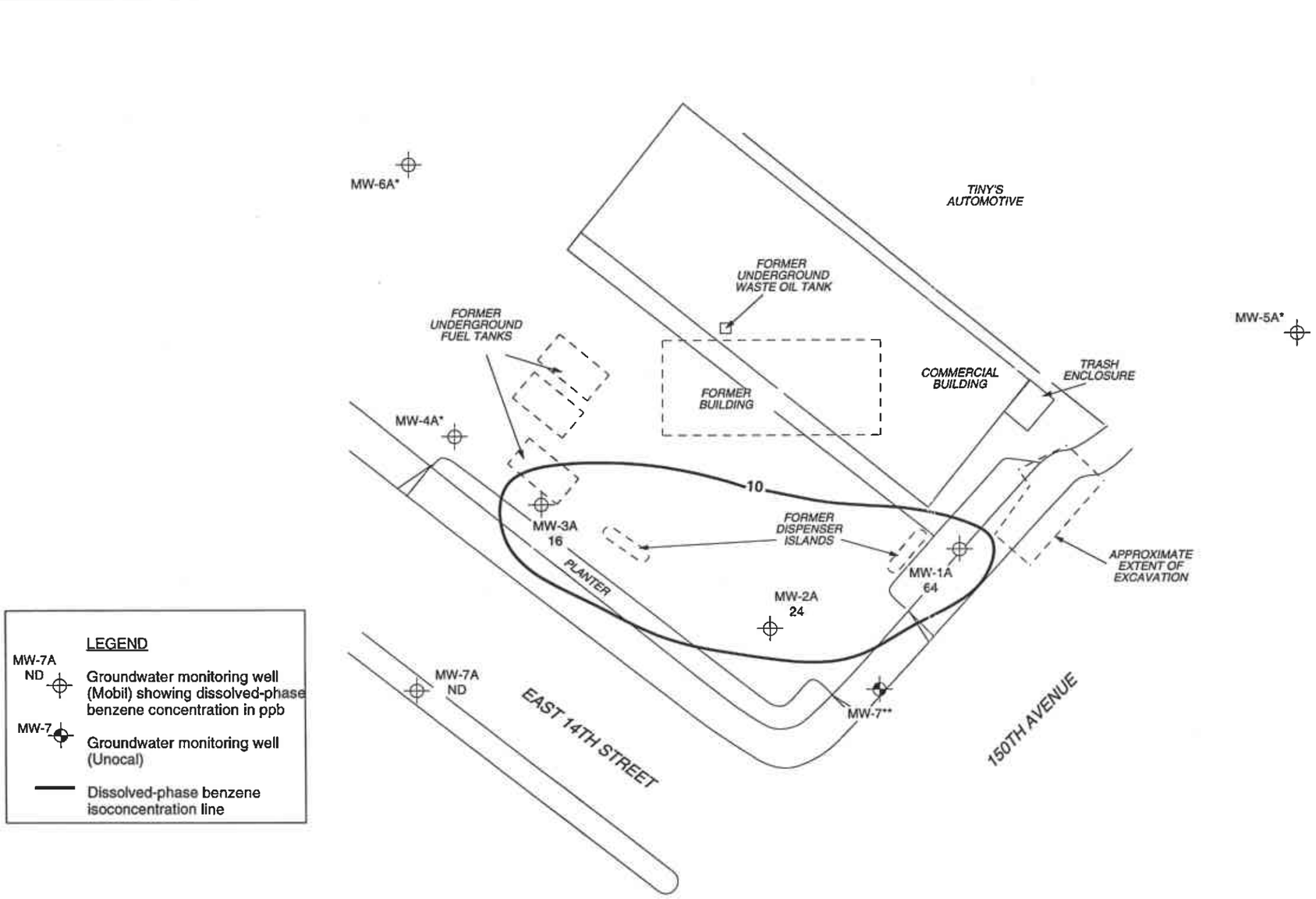
SCALE (feet)
0 15 30

GROUNDWATER ELEVATION CONTOUR MAP
September 10, 1997

Former Mobil Station 04-FGN
14994 East 14th Street
San Leandro, California

FIGURE 2

04-FGN/Site plan 11x17 10/10/97



NOTES:
Results are based on analysis of groundwater samples collected September 10, 1997. ND = not detected at or above method detection limit; ppb = parts per billion. ** = data not provided for Unocal wells. * = well sampled annually.

ALTON GEOSCIENCE
Livermore, California

SOURCE: Allsto Engineering Group

DISSOLVED-PHASE BENZENE CONCENTRATIONS
September 10, 1997

Former Mobil Station 04-FGN
14994 East 14th Street
San Leandro, California

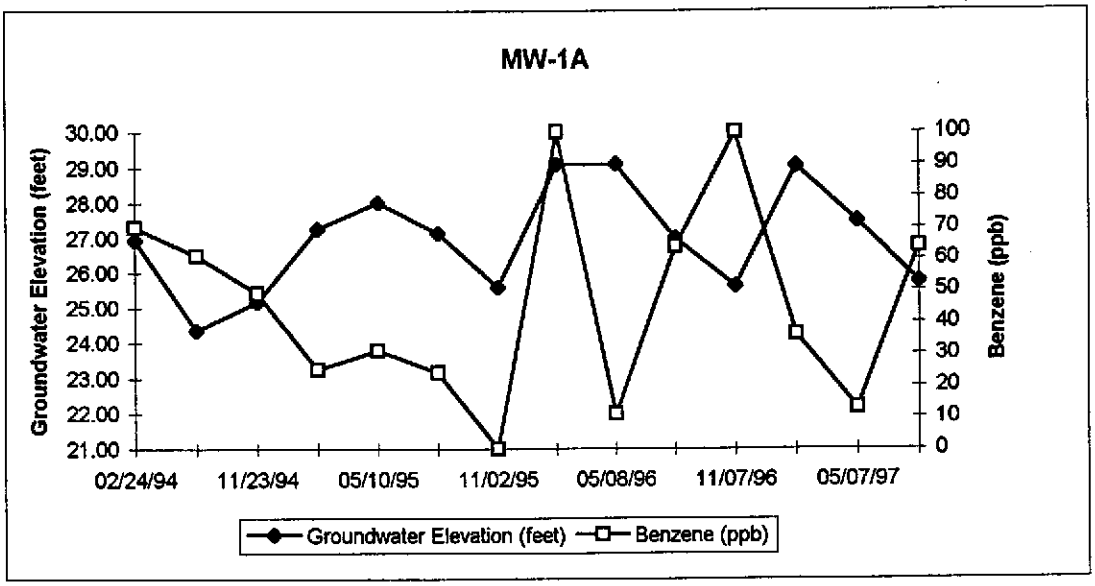
FIGURE 3

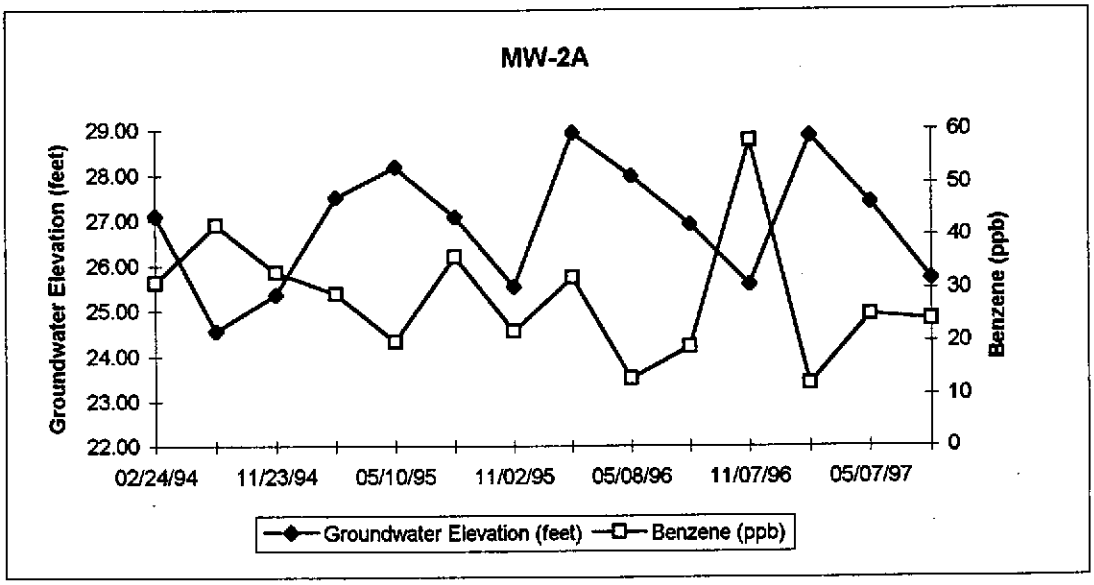
04-FGN/Site plan 11x17 10/10/97

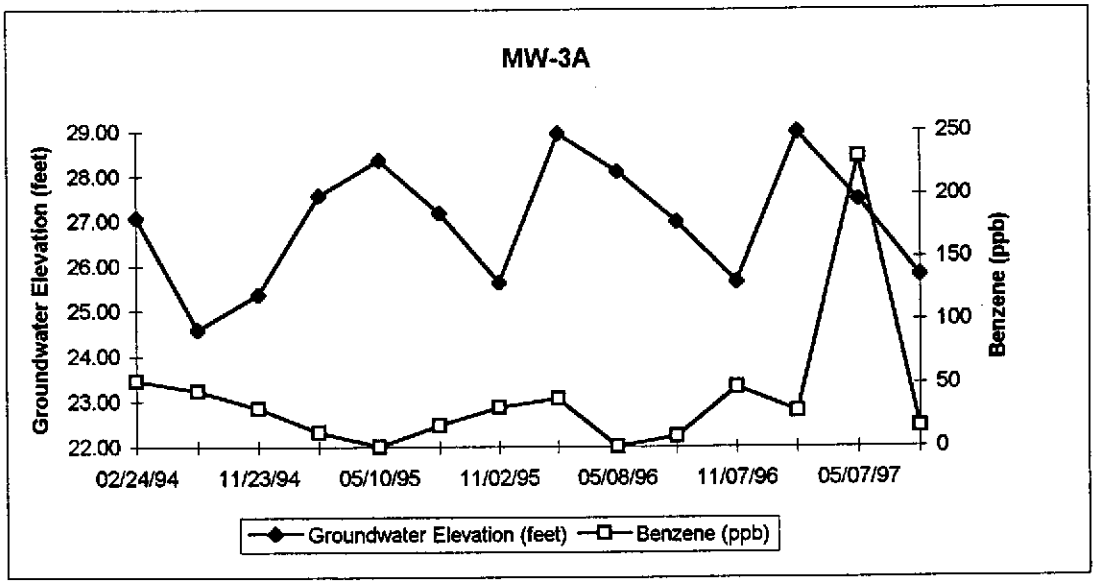
EXHIBIT 4

BENZENE VERSUS GROUNDWATER ELEVATION GRAPHS

Benzene vs. Groundwater Elevation Graphs







NOTE: ND values are plotted as zero.

EXHIBIT 5

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

FLUID-LEVEL MONITORING

Fluid-levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured to the nearest 0.01 foot relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

GROUNDWATER SAMPLING

Currently, 'pre-purge' and 'non-purge' methods of sampling both comply with regulatory standards.

NON-PURGE METHOD:

Alton Geoscience utilizes the 'non-purge' method of sampling for all qualifying groundwater monitoring wells. Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

The following criteria necessary for a well to qualify for 'non-purge' sampling are taken from a letter issued by San Francisco Bay Regional Water Quality Control Board on January 31, 1997:

1. The non-purging approach shall be used only for monitoring wells where groundwater has been impacted by petroleum hydrocarbons, BTEX, and MTBE.

2. Non-purge sampling shall be utilized for unconfined aquifers only.

3. The monitoring well shall be properly permitted, constructed (in this case, screened across the water table), and developed.

4. The well is presently in use for groundwater or soil vapor extraction.

5. The well does not contain free product.

6. For new wells or wells brought into monitoring for the first time, the first round of groundwater sampling performed at a site shall be with both non-purged and purged samples. The purging and sampling method used shall be documented. This shall include the rate of purge and sampling

details. For these wells we require measurements of dissolved oxygen, specific conductance, pH, and temperature whether purged or not purged. Also, if biodegradation is being tracked at the well, our requirements do not preclude the measurement of other parameters.

7. Existing wells which have already been routinely purged in previous sampling events immediate to being switched to a non-purging mode do not require an initial duplicate non-purged and purged sample.

8. Monitoring data frequency shall be as required by the appropriate regulatory oversight agency.

9. Should site closure be requested where the non-purged approach has been used, the final confirmation sampling event shall include both non-purged and purged samples from each well or as agreed upon with the appropriate regulatory oversight agency.

PURGE METHOD:

Groundwater monitoring wells that do not qualify for the 'non-purge' method are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

EXHIBIT 6

MONITORING WELL SAMPLING FORMS

FLUID MEASUREMENT FIELD FORM

Project No.: 41-0114-50
Station No.: 04-FGN

Alton Personnel: CC
Date: 9/10/97

Well Number	Screen Interval	Depth to Water	Depth to Product	Free Product Thickness (ft)	Free Product Recovery	Total Depth	DO (mg/L) Comments
MW-6A		11.08				24.03	1.04
MW-5A		10.15				24.17	1.05
MW-3A		11.13				22.45	0.68
MW-7A		11.66				24.61	2.48
MW-2A		10.91				24.41	1.08
MW-1A		10.88				19.60	1.02
MW-4A		11.32				23.47	2.37

Alton Geoscience, Northern California Operations

GROUND WATER SAMPLING FIELD NOTES

Site: 04-FGN Project No.: 41-0114-50 Sampled By: CC Date: 9-10-97

Well No. MW-3A
Purge Method: Sub
Total Depth (feet) 22.45
Depth to Product (feet):
Depth to Water (feet): 11.13
Product Recovered (gallons):
Water Column (feet): 11.32
Casing Diameter (inches): 2"
80% Recharge Depth (feet): 13.39
1 Well Volume (gallons): 1.92

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
9:10				0.63	70.5	7.47
	~~9:11~~			1.00	72.5	7.29
	9:12			1.07	72.9	7.06
	Total Purged	6		Time Sampled		9:20

Comments:
Turbidity =

Well No. MW-1A
Purge Method: Sub
Total Depth (feet) 18.60
Depth to Product (feet):
Depth to Water (feet): 10.88
Product Recovered (gallons):
Water Column (feet): 7.72
Casing Diameter (inches): 2
80% Recharge Depth (feet): 12.42
1 Well Volume (gallons): 1.31

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
9:33				1.05	71.6	7.20
				0.92	71.5	7.08
	9:35			0.85	71.1	7.00
	Total Purged	4		Time Sampled		9:40

Comments:
Turbidity =

Well No. MW-7A
Purge Method: Sub
Total Depth (feet) 24.61
Depth to Water (feet): 11.66
Product Recovered (gallons):
Water Column (feet): 12.95
Casing Diameter (inches): 4"
80% Recharge Depth (feet): 14.25
1 Well Volume (gallons): 8.54

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
10:20				0.97	72.2	7.27
				1.00	73.0	7.26
	10:30			1.01	73.2	7.21
	Total Purged	26		Time Sampled		10:35

Comments:
Turbidity =

Well No. MW-2A
Purge Method: Sub
Total Depth (feet) 24.41
Depth to Product (feet):
Depth to Water (feet): 10.91
Product Recovered (gallons):
Water Column (feet): 13.50
Casing Diameter (inches): 2"
80% Recharge Depth (feet): 13.61
1 Well Volume (gallons): 2.29

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
9:50				0.81	71.4	7.05
				0.84	71.6	7.00
	9:53			0.95	71.9	6.98
	Total Purged	7		Time Sampled		10:00

Comments:
Turbidity =

Well No.
Purge Method:
Total Depth (feet)
Depth to Product (feet):
Depth to Water (feet):
Product Recovered (gallons):
Water Column (feet):
Casing Diameter (inches):
80% Recharge Depth (feet):
1 Well Volume (gallons):

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		

Comments:
Turbidity =

Well No.
Purge Method:
Total Depth (feet)
Depth to Product (feet):
Depth to Water (feet):
Product Recovered (gallons):
Water Column (feet):
Casing Diameter (inches):
80% Recharge Depth (feet):
1 Well Volume (gallons):

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		

Comments:
Turbidity =

MONITORING
PURGING
DISPOSING
SAMPLING

mpds SERVICES, INCORPORATED

Date: 8-25-97

Transmittal Page

TO: DENO MILANO
ALTON GEOSCIENCE

FROM: ARMOND SALAIAN

Number of Pages (Including Cover): 2

SUBJECT: JOINT MONITORING/SAMPLING ON AUG. 5, 1997
AT UNOCAL # 3292 / MOBIL # 04-FGN - SAN LEANDRO

ATTACHED PLEASE FIND OUR WATER LEVEL DATA; COULD YOU PLEASE FAX US YOUR DATA AS SOON AS POSSIBLE.

IF YOU HAVE ANY QUESTIONS, PLEASE CALL ME AT (510) 602-5120. THANK YOU.

Should any problems occur in receiving, please call the number listed below.

2401 Stanwell Drive, Suite 300, Concord, CA 94520
TEL: (510) 602-5120 FAX: (510) 689-1918

Summary of Monitoring Data

Well #	Ground Water Elevation* (feet)	Depth to Water (feet)♦	Well Casing Elevation* (feet)*
(Monitored on August 5, 1997)			
MW1	26.17	10.20	36.37
MW2	26.11	10.23	36.34
MW3	26.15	10.27	36.42
MW4	26.00	11.04	37.04
MW5	24.86	11.08	35.94
MW6	26.03	9.64	35.67
MW7	25.84	10.25	36.09
MW8	25.63	11.26	36.89
MW9	25.59	10.70	36.29
MW10	25.53	10.51	36.04
MW11	25.27	10.23	35.50
MW2‡	24.82	10.62	35.44**
MW3‡	25.37	10.44	35.81**

♦ The depth to water level and total well depth measurements were taken from the top of the well casings.

* The elevations of the top of the well casings are relative to Mean Sea Level (MSL), per a Benchmark located at the northwest corner of East 14th Street and 150th Avenu (elevation = 36.88 feet MSL).

** The elevations of the top of the well casings are relative to Mean Sea Level (MSL), per Chevron monitoring well MW-6 used as a benchmark (elevation = 36.92 feet MSL).

‡ Wells located on Shadrall Property.

EXHIBIT 7

ANALYTICAL LABORATORY DATA SHEETS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience	Client Project ID:	Mobile #04-FGN	Sampled: Sep 10, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Sep 10, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Sep 25, 1997
Attention: Tom Seeliger	First Sample #:	709-0726	

QC Batch Number:	GC091397 802005A	GC091797 802005A	GC091397 802005A	GC091397 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 709-0726 MW-3A	Sample I.D. 709-0727 MW-1A	Sample I.D. 709-0728 MW-7A	Sample I.D. 709-0729 MW-2A
Purgeable Hydrocarbons	50	5,500	7,800	N.D.	2,800
Benzene	0.50	16	64	N.D.	24
Toluene	0.50	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	75	70	N.D.	N.D.
Total Xylenes	0.50	11	26	N.D.	N.D.
MTBE	2.5	N.D.	120	N.D.	43
Chromatogram Pattern:		Gasoline	Gasoline	--	Gasoline & Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	20	20	1.0	10
Date Analyzed:	9/13/97	9/17/97	9/13/97	9/13/97
Instrument Identification:	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	73	88	113	79

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

SEQUOIA ANALYTICAL, #1271

Jim Baya
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience	Client Project ID:	Mobile #04-FGN	Sampled:	Sep 10, 1997
30-A Lindbergh Ave.	Sample Descript:	Water	Received:	Sep 10, 1997
Livermore, CA 94550	Analysis Method:	EPA 8260	Analyzed:	Sep 17, 1997
Attention: Tom Seeliger	Lab Number:	709-0727	Reported:	Sep 25, 1997

QC Batch Number: GC091797MTBE52A

Instrument ID: GC/MS-2

VOLATILE ORGANIC COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
MTBE	40	N.D.

Surrogates	Control Limit %		% Recovery
Dibromofluoromethane	50	150	115

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobile #04-FGN
Matrix: Liquid
QC Sample Group: 7090726-729
Reported: Sep 25, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC091397 802005A	GC091397 802005A	GC091397 802005A	GC091397 802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	7090326	7090326	7090326	7090326
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/13/97	9/13/97	9/13/97	9/13/97
Analyzed Date:	9/13/97	9/13/97	9/13/97	9/13/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	18	20	18	56
MS % Recovery:	90	100	90	93
Dup. Result:	18	21	18	57
MSD % Recov.:	90	105	90	95
RPD:	0.0	4.9	0.0	1.8
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	5LCS091397	5LCS091397	5LCS091397	5LCS091397
Prepared Date:	9/13/97	9/13/97	9/13/97	9/13/97
Analyzed Date:	9/13/97	9/13/97	9/13/97	9/13/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	18	18	18	55
LCS % Recov.:	90	90	90	92

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobile #04-FGN
Matrix: Liquid
QC Sample Group: 7090726-729

Reported: Sep 25, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC091797	GC091797	GC091797	GC091797
	802005A	802005A	802005A	802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	7090288	7090288	7090288	7090288
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/17/97	9/17/97	9/17/97	9/17/97
Analyzed Date:	9/17/97	9/17/97	9/17/97	9/17/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	21	19	19	59
MS % Recovery:	105	95	95	98
Dup. Result:	19	19	19	58
MSD % Recov.:	95	95	95	97
RPD:	10	0.0	0.0	1.7
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	5LCS091797	5LCS091797	5LCS091797	5LCS091797
Prepared Date:	9/17/97	9/17/97	9/17/97	9/17/97
Analyzed Date:	9/17/97	9/17/97	9/17/97	9/17/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	18	18	58
LCS % Recov.:	95	90	90	97
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobile #04-FGN
Matrix: Liquid
QC Sample Group: 7090726-729
Reported: Sep 25, 1997

QUALITY CONTROL DATA REPORT

Analyte:	MTBE
QC Batch#:	GC091797
	MTBE52A
Analy. Method:	EPA 8260
Prep. Method:	EPA 5030
Analyst:	I. Z.
MS/MSD #:	-
Sample Conc.:	-
Prepared Date:	-
Analyzed Date:	-
Instrument I.D.#:	-
Conc. Spiked:	-
Result:	-
MS % Recovery:	-
Dup. Result:	-
MSD % Recov.:	-
RPD:	-
RPD Limit:	-

LCS #:	LCS091797
LCSD #:	LCSD091797
Prepared Date:	9/17/97
Analyzed Date:	9/17/97
Instrument I.D.#:	GC/MS-2
Conc. Spiked:	50 µg/L
LCS Result:	46
LCS % Recov.:	93
LCSD Result:	56
LCSD % Recov.:	112
MS/MSD LCS Control Limits	65-135

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 404 North Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

9709159

Mobil Oil Consulting Firm: Alton Geoscience
Address: 30 A Lindbergh Ave
City: Livermore State: CA Zip: 94550
Tel: (510) 606-9150 Fax.: (510) 606-9260

Station No./Site Address: 04-FGN
Project Contact: Tom Seeliger
Mobil Oil Engineer:
Sampler(s) (signature):

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX-TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 ☐ Gas ☐ Diesel	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 ☐ TTLC ☐ STLC	Lead Org./DHS ☐ Lead Total	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	MTBE *	
MW-3A	H_2O	9-10	9:20	HCl	2	Vom		X				7090726									X	
MW-1A			9:40					X				7090727									X	
MW-7A			10:35					X				7090728									X	
MW-2A			10:00					X				7090729									X	

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☐ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☐ Active Remed. (O & M)
- Code 6 ☒ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by: Date/Time: 9/10/97 1550
Received by: Date/Time: 9/10/97 1550
Relinquished by: Date/Time: 9/10 1705
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time: 9/10/97 1725

Turnaround Time: (check one)
Normal ___ Same day ___
1 day ___ 2 day ___
5 day X

Sample Integrity:
Intact ___ On Ice ___

Remarks: * Run Highest Concentration for 8260 Confirmation

EXHIBIT 8

WASTE DISPOSAL MANIFESTS

Monitoring Well Purge Water Transport Form

Generator Information

Name: Mobil Oil Corporation Attn: Steve Pao

Address: 3700 West 190th Street, TPT-2

City, State, Zip: Torrance, CA 90509-2929 Phone: (310) 212-1877

Description of Water: Monitoring well purge water

The generator certifies that this water as described is non-hazardous.

for Mobil: ~~Mark Fritz~~ Jake Madden 9-19-97 (Date)

Site Information

	Date Generated	Mobil Site No.	Amount Generated	Sampler's Initials
1	9/10/97	04-FGN	40 gal	CC
2	9/10/97	04-HGL	350 gal	PER
3	9/12/97	99-PTR	375 gal	CC
4	9/12/97	04-482	500 gal	CC
5	9/18/97	04-394	225 gal	PER
6	9/18/97	04-HGL	80 gal	PER
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Date Generated	Mobil Site No.	Amount Generated	Sampler's Initials
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
		Total:	1570	

Transporter Information

Name: Clearwater Environmental Management

Address: P.O. Box 7420

City, State, Zip: Fremont, CA 94555 Phone: (800) 499-3676

Truck ID No.: 110-111 Steven R. Stone 9/19/97

(Typed or printed full name & signature) (Date)

Receiving Facility

Name: McKittrick Waste Treatment Site

Address: 56533 Highway 58 West

City, State, Zip: McKittrick, CA 93251 Phone: (805) 762-7607

Approval No.: 1296-1367-PS

(Typed or printed full name & signature) (Date)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Page 1 of 1

3. Document Number NH- No 43646

GENERATOR

4. Generator's Name and Mailing Address
Mobil Oil
3700 W. 190th St TPT2
Torrance, CA 90509-2927
Generator's Phone 310-212 1877

Profile # 1296-1367 PS

5. Transporter Company Name

6. US EPA ID Number
CAL000220013

7. Transporter Phone
510-797 8511

8. Designated Facility Name and Site Address
McKittrick Waste Treatment Site
56533 Hwy 58, WEST
McKittrick, CA 93251 CAD980636831

9. US EPA ID Number

10. Facility's Phone
805 762 7366

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS WASTE LIQUID	001	TI	1570	G
b.				

15. Special Handling Instructions and Additional Information
Wear PPE
Emergency contact
510-797 8511
ATTN: Kirk Haywood

Site Alton Geoscience
30B Lindberg Ave
Livermore, CA 94550

Handling Codes for Wastes Listed Above

11a.	11b.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jacob Madden for Mobil				

17. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Steven P Stone		09	15	17

18. Discrepancy Indication Space

Printed/Typed Name	Signature	Month	Day	Year

WHITE – ORIGINAL (Return to Generator) YELLOW – TSDF (Retain Copy) PINK – TRANSPORTER COPY GOLDENROD – GENERATOR'S COPY