ALTON GEOSCIENCE
THE RESULTS TEAM

October 24, 1996

Mr. Scott Seery
Alameda County Environmental Health Department
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502

RE: FORMER MOBIL STATION 04-H6J
1024 MAIN STREET
PLEASANTON, CALIFORNIA

Alton Project No. 30-0065

Mr. Seery:

Please find enclosed the Third Quarter 1996 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
Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevation Contour Map, and Dissolved-Phase Benzene Concentrations)
Exhibit 4: Benzene Versus Groundwater Elevation Graphs
Exhibit 5: Vapor Extraction System Performance Tables and Graphs
Exhibit 6: Groundwater Remediation Performance Tables
Exhibit 7: Well Purging and Groundwater Sampling Protocol
Exhibit 8: Monitoring Well Sampling Forms
Exhibit 9: Analytical Laboratory Data Sheets

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

Sincerely,

ALTON GEOSCIENCE

Ron Scheele

Ron A. Scheele
Project Geologist

cc: Ms. Cherine Foutch, Mobil Oil Corporation
Mr. Kevin Graves, California Regional Water Quality Control Board, SFBR
Mr. Gary Lee, Pleasanton Department of Works
Mr. Craig Mayfield, Alameda County Flood Control & Water Conservation District

30A Lindbergh Avenue
Livermore, California 94550
(510) 606-9150 • FAX (510) 606-9260

Alton Geoscience

Quarterly Progress Report Summary Sheet
Third Quarter 1996

Mobil Service Station 04-H6J
1024 Main Street
Pleasanton, California

CRWQCB Case # N/A
BAAQMD # 14053
DSRSD sewer discharge permit # 95010

Number of water zones:	1	This Page	1
FIELD ACTIVITY:		Date Sampled:	12-Aug-96
Number of ground water wells on-site:	12	Ground Water Wells monitored:	15
Number of ground water wells off-site:	3	Ground Water Wells sampled:	11
		Ground Water Wells with Free Product:	0
Phase of Investigation: Vadose Zone:	Remediation	Ground Water Phase:	Remediation

SITE HYDROGEOLOGY:

Approximate depth to ground water below ground surface:	38.9 feet
Approximate elevation of potentiometric surface above Mean Sea Level:	309.24 feet
Average Increase/Decrease in ground water elevations since last sampling episode:	1.6 foot increase
Approximate flow direction and hydraulic gradient:	Northeast 0.31 foot/foot

GROUND WATER CONTAMINATION (BENZENE MCL=1.0 ppb):

Wells containing free product:	0	Range in Thickness of Free Product:	trace
Number of wells with concentrations below MCL:	6	Volume of Free Product Recovered This Period:	0
Number of wells with concentrations at or above MCL:	5	Volume of Free Product Recovered To Date:	0
		Range in Concentrations:	enzene: <0.50 to 18,000 ppb
Nature of contamination:	Gasoline		TPH-G: <50 to 140,000 ppb

GROUND WATER REMEDIATION PERFORMANCE

		Date Started:	5-May-95
Technology used:	Pump & treat w/ air stripper	Number of Wells Extracting Ground Water:	4 (RW-1 through RW-4)
Amount of Groundwater Extracted This Quarter(gallons):	16,010	Carbon Change:	N/A
Total Amount of Groundwater Extracted (gallons):	2,339,080		
Operating days this quarter:	4 days		
Total operating Days:	267 days		

VAPOR EXTRACTION PERFORMANCE

		Date Started:	4-Apr-95
Technology used:	Catalytic Oxidizer	Maximum influent Concentration (ppmv):	250 ppmv
Number of vapor wells onsite:	9	Maximum Diluted Influent Concentration (ppmv	230 ppmv
Number of vapor extraction wells open:	3	Amount of hydrocarbons removed this quarter:	2 gallons
Operating Days this quarter:	4 days	Cumulative amount of hydrocarbons removed:	3,560 gallons
Total operating Days:	276 days	Operating Mode:	Catalytic
		Conversion Date (Downsized VES blower):	1/8/96

ADDITIONAL INFORMATION:

Site monitored and sampled quarterly, but jointly with former Unocal Station # 543 on a semi-annual schedule, i.e., first and third quarters.
Monitoring Wells MW-3, MW-5, MW-7, MW-8 and Vapor Wells VMW-1 through VMW-4 are shallow wells which are historically dry.
Vapor extraction wells MW-1, MW-2, VMW-4 and combined groundwater/vapor extraction wells RW-2, RW-3, RW-4 were closed to soil vapor recovery.
Due to electrical problems, there was limited remediation system operation.

Prepared by: Ron Scheele — Ron Scheele, Project Manager

Approved by: Matthew W Katen — Matthew W. Katen, RG, Senior Geologist
California RG 5167

Alton Project No: 30-0065

Submittal Date: 10/15/96

REGISTERED GEOLOGIST MATTHEW W KATEN NO. 5167 STATE OF CALIFORNIA

mobil04H6JR25.XL

EXHIBIT 1

SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1996
Former Mobil Station 04-H6J

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1	X	X	X	X
MW-2	X	X	X	X
MW-3*				
MW-4	X	X	X	X
MW-5*				
MW-6	X	X	X	X
MW-7*				
MW-8*				
MW-10	X	X	X	X
MW-11	X	X	X	X
MW-12	X	X	X	X
RW-1	X	X	X	X
RW-2	X	X	X	X
RW-3	X	X	X	X
RW-4	X	X	X	X

NOTES: X = well scheduled for sampling
* = well historically dry, screened above water table

EXHIBIT 2

GROUNDWATER LEVELS AND CHEMICAL ANALYSES

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-1	04/12/90	348.03	0.00	43.57	304.46	3,600	—	73	13	3	180	—
	10/18/90		0.00	43.18	304.85	5,000	ND	700	360	170	480	—
	08/06/91		0.00	38.65	309.38	2,600	—	310	340	110	340	—
	01/08/92		0.00	38.68	309.35	2,400	—	270	370	18	340	—
	04/30/92		0.00	39.93	308.10	1,300	—	150	120	12	160	—
	07/31/92		0.00	43.05	304.98	ND	—	ND	ND	ND	ND	—
	10/27/92		0.00	42.86	305.17	2,700	—	320	310	84	310	—
	01/22/93		0.00	34.88	313.15	2,800	—	190	340	87	320	—
	04/05/93		0.00	33.71	314.32	6,000	—	410	460	51	500	—
	07/06/93		0.00	35.46	312.57	2,200	—	140	240	32	180	—
	11/30/93		0.00	37.81	310.22	450	—	68	34	ND	48	—
	01/27/94		0.00	42.10	305.93	1,000	—	270	330	44	190	—
	04/25/94		0.00	40.33	307.70	—	—	—	—	—	—	—
	04/26/94		—	—	—	3,500	—	310	370	22	320	—
	07/08/94		0.00	41.39	306.64	640	—	120	87	15	43	—
	10/05/94		0.00	42.19	305.84	970	—	110	140	21	90	—
	02/21/95		0.00	34.73	313.30	3,500	—	200	270	24	100	—
	05/03/95		0.00	34.67	313.36	160	—	7.8	12	4.5	20	—
	08/04/95		0.00	37.00	311.03	1,900	—	99	330	40	570	10
	11/10/95		0.00	39.66	308.37	610	—	150	56	22	89	—
	02/12/96		0.00	36.19	311.84	470	—	3.0	37	7.8	140	1.3
	05/17/96		0.00	35.82	312.21	ND	—	ND	ND	ND	ND	ND
	08/12/96		0.00	38.44	309.59	ND	—	ND	ND	ND	ND	ND
MW-2	04/12/90	348.45	0.00	44.14	304.31	64,000	—	5,500	7,600	1,900	7,800	—
	10/18/90		0.00	43.18	305.27	83,000	10,000	6,800	9,100	2,400	11,000	—
	08/06/91		0.00	39.19	309.26	160,000	—	16,000	25,000	4,300	19,000	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-2	01/08/92		0.02	39.40	309.07	—	—	—	—	—	—	—
(con't)	04/30/92		0.00	40.50	307.95	71,000	—	9,200	19,000	3,700	15,000	—
	07/31/92		0.15	43.64	304.92	—	—	—	—	—	—	—
	10/27/92		Trace	43.53	304.92	—	—	—	—	—	—	—
	01/22/93		Trace	35.55	312.90	—	—	—	—	—	—	—
	04/05/93		Trace	34.41	314.04	—	—	—	—	—	—	—
	07/06/93		Trace	35.98	312.47	—	—	—	—	—	—	—
	11/30/93		0.48	38.78	310.03	—	—	—	—	—	—	—
	01/27/94		0.01	42.50	305.96	—	—	—	—	—	—	—
	04/25/94		Trace	40.32	308.13	—	—	—	—	—	—	—
	07/08/94		Trace	42.46	305.99	—	—	—	—	—	—	—
	10/05/94		Trace	42.78	305.67	—	—	—	—	—	—	—
	02/21/95		0.12	34.88	313.66	—	—	—	—	—	—	—
	05/03/95		0.62	35.30	313.62	—	—	—	—	—	—	—
	08/04/95		0.20	37.21	311.39	—	—	—	—	—	—	—
	11/10/95		0.24	39.87	308.76	—	—	—	—	—	—	—
	02/12/96		Trace	36.16	312.29	—	—	—	—	—	—	—
	05/17/96		0.00	35.95	312.50	57,000	—	950	3,000	940	6,500	ND
	08/12/96		0.00	38.45	310.00	86,000	—	18,000	16,000	1,700	10,000	ND
MW-3	04/12/90	347.97	0.00	23.18	324.79	2,100	—	32	56	31	170	—
	10/18/90		0.00	14.28	333.69	110	ND	3	3	1	5	—
	08/06/91		—	Dry	—	—	—	—	—	—	—	—
	01/08/92		0.00	32.36	315.61	680	—	8.9	26	8.5	72	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-3	01/22/93		0.00	27.30	320.67	2,600	—	240	300	170	440	—
(con't)	04/05/93		—	Dry	—	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
MW-4	10/18/90	348.07	0.00	43.16	304.91	9,600	2,000	180	500	200	1,200	—
	08/06/91		0.00	38.65	309.42	8,600	—	320	420	220	650	—
	01/08/92		0.00	38.65	309.42	3,400	—	600	880	220	1,100	—
	04/30/92		0.00	39.88	308.19	7,200	—	650	1,200	210	1,200	—
	07/31/92		0.00	43.07	305.00	3,800	—	320	340	120	360	—
	10/27/92		0.00	42.78	305.29	9,000	—	440	750	190	900	—
	01/22/93		0.00	34.76	313.31	12,000	—	540	1,200	320	1,900	—
	04/05/93		0.00	33.61	314.46	1,100	—	34	18	12	31	—
	07/06/93		0.00	35.37	312.70	4,000	—	220	300	43	440	—
	11/30/93		0.00	37.78	310.29	1,400	—	140	83	54	110	—
	01/27/94		0.00	42.10	305.97	910	—	140	75	24	94	—
	04/25/94		0.00	40.28	307.79	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-4	04/26/94		—	—	—	27,000	—	1,200	1,800	580	2,500	—
(con't)	07/08/94		0.00	41.38	306.69	540	—	57	47	17	43	—
	10/05/94		0.00	42.17	305.90	3,200	—	230	280	73	210	—
	02/21/95		0.02	34.87	313.22	—	—	—	—	—	—	—
	05/03/95		0.00	34.81	313.26	—	—	—	—	—	—	—
	05/04/95		—	—	—	1,700	—	100	200	50	240	—
	08/04/95		0.00	37.18	310.89	2,500	—	92	67	49	150	12
	11/10/95		0.00	39.86	308.21	11,000	—	1,100	590	420	1,200	—
	02/12/96		0.00	36.38	311.69	77	—	4.5	2.4	ND	2.8	17
	05/17/96		0.00	36.00	312.07	470	—	50	ND	ND	8.9	ND
	08/12/96		0.00	38.63	309.44	4,000	—	830	180	160	250	ND
MW-5	10/18/90	347.97	—	**	—	—	—	—	—	—	—	—
	08/06/91		0.00	34.25	313.72	—	—	—	—	—	—	—
	01/08/92		0.00	34.22	313.75	—	—	—	—	—	—	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		0.00	34.23	313.74	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-5	08/04/95		—	Dry	—	—	—	—	—	—	—	—
(con't)	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
MW-6	10/18/90	348.23	0.00	43.60	304.63	3,000	ND	1,300	150	120	85	—
	08/06/91		0.00	39.07	309.16	1,600	—	220	10	5.2	14	—
	01/08/92		0.00	39.18	309.05	370	—	81	3.9	4.5	2.9	—
	04/30/92		0.00	40.46	307.77	610	—	180	8.4	6.8	3.3	—
	07/31/92		0.00	43.61	304.62	96	—	1,500	1,500	370	1,100	—
	10/27/92		0.00	43.68	304.55	9,400	—	27	ND	6	10	—
	01/22/93		0.00	35.66	312.57	250	—	12	2.4	1.4	1.9	—
	04/05/93		0.00	34.41	313.82	190	—	2.3	0.99	ND	0.5	—
	07/06/93		0.00	36.01	312.22	99	—	1.4	0.54	ND	ND	—
	11/30/93		0.00	38.36	309.87	86	—	9.1	ND	ND	ND	—
	01/27/94		0.00	42.57	305.66	140	—	1.7	ND	ND	ND	—
	04/25/94		0.00	40.77	307.46	—	—	—	—	—	—	—
	04/26/94		—	—	—	330	—	40	ND	ND	ND	—
	07/08/94		0.00	41.82	306.41	170	—	8.8	9.2	3.5	12	—
	10/05/94		0.00	42.64	305.59	600	—	100	5.6	11	12	—
	02/21/95		0.01	35.55	312.69	—	—	—	—	—	—	—
	05/03/95		0.00	35.47	312.76	—	—	—	—	—	—	—
	05/04/95		—	—	—	350	—	6.8	1.8	7.4	7.1	—
	08/04/95		0.00	37.72	310.51	150	—	3.8	1.7	ND	1.1	6.5
	11/10/95		0.00	40.31	307.92	130	—	6.6	0.96	1.6	1.7	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-6	02/12/96		0.00	36.92	311.31	65	—	2.8	1.6	0.57	1.3	5.2
(con't)	05/17/96		0.00	36.56	311.67	91	—	2.8	ND	ND	ND	ND
	08/12/96		0.00	39.12	309.11	75	—	4.6	2.6	ND	1.7	ND
MW-7	10/18/90	347.90	0.00	9.26	338.64	ND	ND	0	0.5	ND	0.8	—
	08/06/91		—	Dry	—	—	—	—	—	—	—	—
	01/08/92		0.00	23.79	324.11	220	—	7.8	1.7	ND	0.55	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-8	10/18/90	348.90	0.00	11.30	337.60	900	ND	3	5	7	62	—
	08/06/91		—	Dry	—	—	—	—	—	—	—	—
	01/08/92		—	Dry	—	—	—	—	—	—	—	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—
	07/31/92		0.00	12.04	336.86	270*	—	ND	ND	ND	1.3	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—
	07/06/93		0.00	7.48	341.42	ND	—	ND	ND	ND	ND	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	10/05/94		—	—	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
MW-9	02/04/92	348.53	0.00	43.54	304.99	16,000	—	3,000	740	1,200	2,500	—
	04/30/92		0.00	42.83	305.70	5,600	—	1,000	120	410	350	—
	07/31/92		0.00	47.36	301.17	93	—	1,800	1,900	620	940	—
	10/27/92		0.00	48.32	300.21	13,000	—	2,400	1,600	680	1,100	—
	01/22/93		0.00	39.11	309.42	5,600	—	1,200	200	510	350	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-9	04/05/93		0.00	37.10	311.43	7,900	—	1,300	510	620	670	—
(con't)	07/06/93		0.00	39.21	309.32	3,200	—	510	46	170	150	—
	11/30/93		0.00	40.58	307.95	2,800	—	610	28	220	65	—
	01/27/94		0.00	44.32	304.21	11,000	—	1,400	130	230	700	—
	04/25/94		0.00	43.05	305.48	—	—	—	—	—	—	—
	04/26/94		—	—	—	3,900	—	460	56	160	220	—
	07/08/94		0.00	45.72	302.81	2,600	—	340	82	96	220	—
(Abandoned	08/01/94)											
MW-10	11/30/93	347.95	0.00	37.97	309.98	ND	—	ND	ND	ND	ND	—
	01/27/94		0.00	42.16	305.79	ND	—	ND	ND	ND	1.2	—
	04/25/94		0.00	40.39	307.56	—	—	—	—	—	—	—
	04/26/94		—	—	—	810	—	17	0.84	ND	ND	—
	07/08/94		0.00	41.45	306.50	110	—	18	12	3.7	14	—
	10/05/94		0.00	42.28	305.67	87	—	8.0	5.0	0.85	4.5	—
	02/21/95		0.00	35.14	312.81	70	—	3.6	12	1.8	9.5	—
	05/03/95		0.00	35.07	312.88	ND	—	ND	ND	ND	ND	—
	08/04/95		0.00	37.42	310.53	ND	—	ND	ND	ND	ND	ND
	11/10/95		0.00	39.95	308.00	ND	—	ND	ND	ND	ND	—
	02/12/96		0.00	36.57	311.38	ND	—	ND	1.9	ND	1.2	1.2
	05/17/96		0.00	36.18	311.77	ND	—	ND	ND	ND	ND	ND
	08/12/96		0.00	38.76	309.19	ND	—	ND	ND	ND	ND	ND
MW-11	11/30/93	347.56	0.00	38.41	309.15	ND	—	ND	ND	ND	1.6	—
	01/27/94		0.00	38.02	309.54	ND	—	ND	ND	ND	ND	—
	04/25/94		0.00	38.77	308.79	—	—	—	—	—	—	—
	04/26/94		—	—	—	ND	—	ND	ND	ND	1.7	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-11	07/08/94		0.00	41.70	305.86	120	—	23	18	4.0	15	—
(con't)	10/05/94		0.00	44.49	303.07	130	—	12	19	4.6	24	—
	02/21/95		0.00	41.74	305.82	300	—	27	64	7.3	36	—
	05/03/95		0.00	34.64	312.92	ND	—	ND	ND	ND	ND	—
	08/04/95		0.00	35.28	312.28	ND	—	ND	ND	ND	ND	ND
	11/10/95		0.00	36.85	310.71	ND	—	ND	0.88	ND	0.88	—
	02/12/96		0.00	36.18	311.38	ND	—	ND	1.7	ND	1.2	1.3
	05/17/96		0.00	34.39	313.17	ND	—	ND	ND	ND	ND	ND
	08/12/96		0.00	35.64	311.92	ND	—	ND	ND	ND	ND	ND
MW-12	11/30/93	347.15	0.00	37.97	309.18	55	—	1.8	4.3	2.5	11	—
	01/27/94		0.00	44.02	303.13	ND	—	ND	ND	ND	ND	—
	04/25/94		0.00	42.27	304.88	—	—	—	—	—	—	—
	04/26/94		—	—	—	ND	—	ND	ND	ND	1.4	—
	07/08/94		0.00	43.26	303.89	53	—	8.4	7.4	1.9	7.1	—
	10/05/94		0.00	44.32	302.83	350	—	27	56	13	67	—
	02/21/95		0.00	37.83	309.32	ND	—	4.0	4.0	0.77	3.6	—
	05/03/95		0.00	37.24	309.91	ND	—	ND	ND	ND	ND	—
	08/04/95		0.00	39.07	308.08	ND	—	ND	ND	ND	ND	ND
	11/10/95		0.00	41.24	305.91	ND	—	ND	ND	ND	ND	—
	02/12/96		0.00	38.19	308.96	ND	—	ND	2.1	ND	1.3	2.5
**	05/17/96		—	—	—	—	—	—	—	—	—	—
	08/12/96		0.00	40.32	306.83	ND	—	ND	ND	ND	ND	ND
VMW-1	11/30/93	348.05	—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
VMW-1	07/08/94		—	Dry	—	—	—	—	—	—	—	—
(con't)	10/05/94		—	—	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
VMW-2	11/30/93	347.90	—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		0.00	33.82	314.08	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
VMW-3	11/30/93	348.10	—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		Trace	31.23	316.87	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
VMW-3	05/03/95		—	Dry	—	—	—	—	—	—	—	—
(con't)	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
VMW-4	11/30/93	347.95	—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	31.41	316.54	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
RW-1	11/30/93	347.89	Trace	37.75	310.14	—	—	—	—	—	—	—
	01/27/94		Trace	42.00	305.89	—	—	—	—	—	—	—
	04/25/94		0.02	40.24	307.67	—	—	—	—	—	—	—
	07/08/94		0.15	41.41	306.59	—	—	—	—	—	—	—
	10/05/94		Trace	42.18	305.71	—	—	—	—	—	—	—
	02/21/95		Trace	34.94	312.95	110,000	—	16,000	29,000	2,200	14,000	—
	05/03/95		0.01	34.83	313.07	—	—	—	—	—	—	—
	08/04/95		Trace	37.11	310.78	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
RW-1	11/10/95		0.02	39.74	308.17	—	—	—	—	—	—	—
(con't)	02/12/96		0.00	47.29	300.60	41,000	—	4,400	12,000	960	6,900	120
	05/17/96		0.00	47.53	300.36	81,000	—	2,700	8,600	1,100	6,300	ND
	08/12/96		0.00	39.75	308.14	140,000	—	12,000	25,000	2,200	15,000	ND
RW-2	10/05/94	—	0.00	43.33	—	41,000	—	6,500	6,300	1,000	5,400	—
	02/21/95	347.82	0.00	35.05	312.77	45,000	—	6,200	2,600	1,400	5,600	—
	05/03/95		0.00	35.11	312.71	30,000	—	3,600	2,000	1,000	5,700	—
	08/04/95		0.00	37.35	310.47	21,000	—	4,100	1,400	810	3,200	ND
	11/10/95		0.00	41.02	306.80	26,000	—	2,600	990	810	2,700	—
	02/12/96		0.00	38.63	309.19	10,000	—	600	600	230	1,900	ND
	05/17/96		0.00	48.56	299.26	4,000	—	300	64	86	470	10
	08/12/96		0.00	44.74	303.08	5,400	—	1,100	36	320	190	ND
RW-3	10/05/94	—	0.00	44.66	—	1,600	—	120	180	26	170	—
	02/21/95	347.92	0.00	39.85	308.07	620	—	67	30	12	48	—
	05/03/95		0.00	40.12	307.80	780	—	31	28	6.0	40	—
	08/04/95		0.00	41.84	306.08	190	—	37	14	ND	19	8.1
	11/10/95		0.00	44.45	303.47	160	—	19	5.0	ND	4.4	—
	02/12/96		0.00	42.62	305.30	ND	—	0.78	2.0	ND	2.0	1.4
	05/17/96		0.00	48.90	299.02	52	—	2.8	0.5	ND	ND	3.6
	08/12/96		0.00	43.71	304.21	ND	—	0.87	ND	ND	ND	ND
RW-4	10/05/94	—	0.00	42.62	—	130	—	11	4.9	1.5	9.2	—
	02/21/95	348.29	0.02	35.40	312.91	—	—	—	—	—	—	—
	05/03/95		0.00	35.03	313.26	—	—	—	—	—	—	—
	05/04/95		—	—	—	2,900	—	330	130	120	410	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
RW-4	08/04/95		0.00	37.62	310.67	520	—	63	ND	14	2.1	6.1
(con't)	11/10/95		0.00	40.26	308.03	450	—	94	28	31	43	—
	02/12/96		0.00	36.84	311.45	52	—	1.5	2.0	2.9	2.4	4.0
	05/17/96		0.00	36.58	311.71	160	—	7.7	2.3	26	1.4	ND
	08/12/96		0.00	38.96	309.33	ND	—	ND	ND	ND	ND	ND
FORMER UNOCAL STATION #0543 WELLS												
MW-1#	12/16/92	351.18	—	—	—	ND	ND	ND	ND	ND	ND	—
	02/02/93		0.00	37.76	313.42	—	—	—	—	—	—	—
	03/01/93		0.00	36.26	314.92	—	—	—	—	—	—	—
	04/14/93		0.00	36.56	314.62	ND	ND	ND	ND	ND	ND	—
	05/14/93		0.00	37.27	313.91	—	—	—	—	—	—	—
	06/15/93		0.00	38.02	313.16	—	—	—	—	—	—	—
	07/06/93		0.00	38.06	313.12	ND	ND	ND	ND	ND	ND	—
	11/30/93	350.78	—	—	—	—	—	—	—	—	—	—
	01/27/94		0.00	43.41	307.37	ND	—	ND	ND	ND	ND	—
	04/25/94		0.00	45.32	305.46	ND	—	ND	3.5	ND	3.4	—
	07/08/94		0.00	46.26	304.52	ND	—	ND	ND	ND	ND	—
	10/05/94		0.00	47.26	303.52	ND	—	ND	ND	ND	ND	—
	01/04/95		0.00	44.98	305.80	ND	—	ND	ND	ND	ND	—
	05/03/95		0.00	36.75	314.03	—	—	—	—	—	—	—
	08/04/95		0.00	38.54	312.24	—	—	—	—	—	—	—
	11/10/95		0.00	40.97	309.81	—	—	—	—	—	—	—
	02/12/96		0.00	37.58	313.20	—	—	—	—	—	—	—
	08/19/96		0.00	39.01	311.77	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-2#	12/16/92	349.83	—	—	—	1,600	—	28	ND	5.1	5.6	—
	02/02/93		0.00	39.18	310.65	—	—	—	—	—	—	—
	03/01/93		0.00	34.33	315.50	—	—	—	—	—	—	—
	04/14/93		0.00	37.56	312.27	4,300	—	7.2	5.8	13	10	—
	05/14/93		0.00	37.49	312.34	—	—	—	—	—	—	—
	06/15/93		0.00	39.34	310.49	—	—	—	—	—	—	—
	07/06/93		0.00	37.82	312.01	4,700	—	17	15	30	28	—
	11/30/93	349.51	—	—	—	—	—	—	—	—	—	—
	01/27/94		0.00	43.15	306.36	1,500	—	28	9.0	ND	20	—
	04/25/94		0.00	41.90	307.61	1,100	—	19	1.7	2.5	8.8	—
	07/08/94		0.00	42.75	306.76	1,100	—	17	ND	ND	6	—
	10/05/94		0.00	43.50	306.01	240	—	4.7	2.5	0.52	2.6	—
	01/04/95		0.00	44.75	304.76	2,000	—	23	ND	ND	ND	—
	05/03/95		0.00	36.98	312.53	—	—	—	—	—	—	—
	08/04/95		0.00	39.15	310.36	2,000	—	40	ND	17	43	—
	11/10/95		0.00	41.45	308.06	1,400	—	13	2.8	2.7	4.0	—
	02/12/96		0.00	38.11	311.40	3,200	—	66	9.2	27	35	ND
	08/19/96		0.00	40.39	309.12	—	—	—	—	—	—	—
MW-3#	12/16/92	351.35	—	—	—	ND	—	ND	ND	ND	ND	—
	02/02/93		0.00	40.62	310.73	—	—	—	—	—	—	—
	03/01/93		0.00	35.7	315.65	—	—	—	—	—	—	—
	04/14/93		0.00	38.97	312.38	ND	—	ND	ND	ND	ND	—
	05/14/93		0.00	39.07	312.28	—	—	—	—	—	—	—
	06/15/93		0.00	40.68	310.67	—	—	—	—	—	—	—
	07/06/93		0.00	37.82	313.53	ND	—	ND	ND	ND	ND	—
	11/30/93	351.04	—	—	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

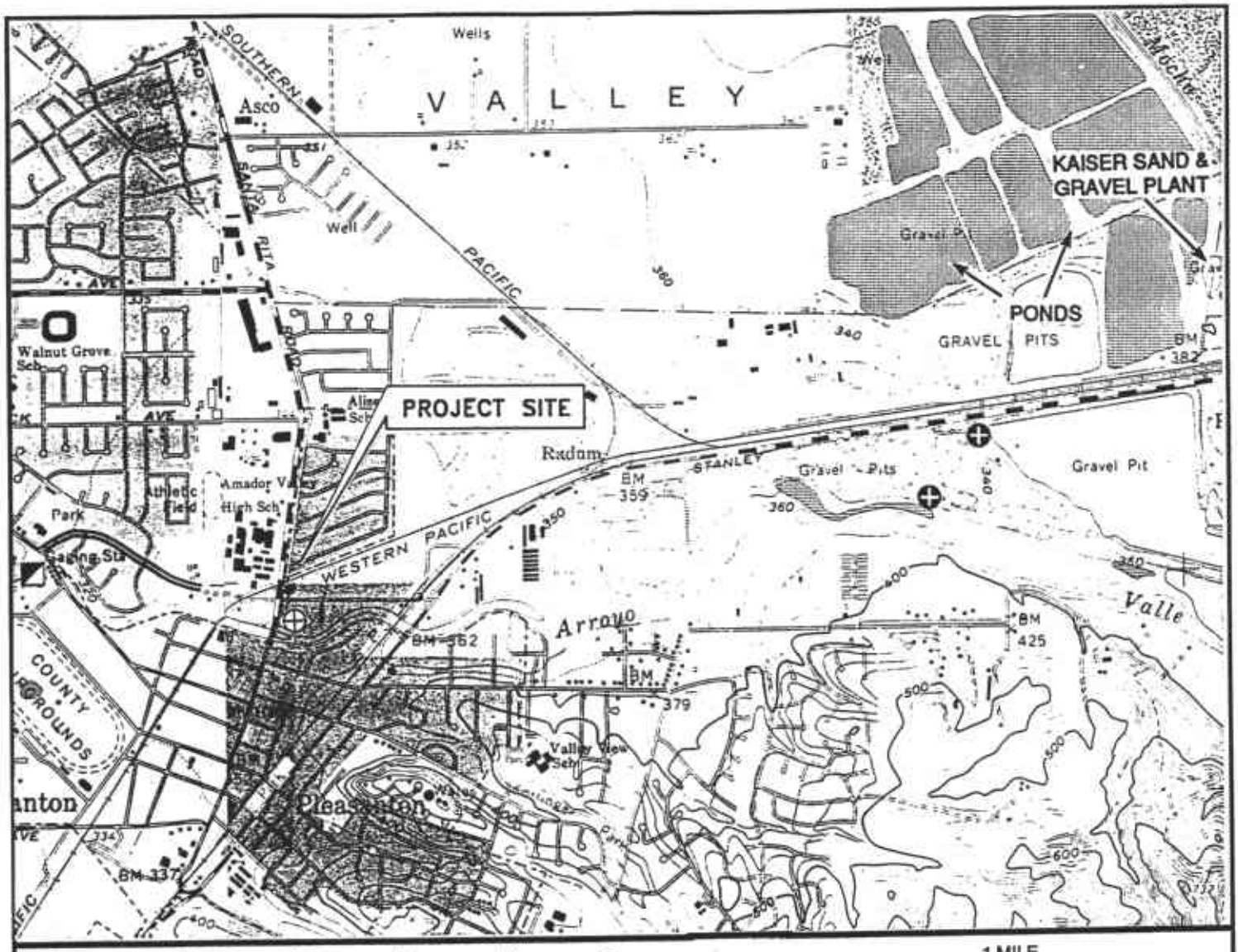
Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-3#	01/27/94		0.00	44.25	306.79	ND	—	ND	ND	ND	ND	—
(con't)	04/25/94		0.00	43.23	307.81	ND	—	ND	1.4	ND	1.8	—
	07/08/94		0.00	44.01	307.03	ND	—	ND	ND	ND	ND	—
	10/05/94		0.00	44.66	306.38	ND	—	ND	ND	ND	ND	—
	01/04/95		0.00	44.90	306.14	ND	—	ND	ND	ND	ND	—
	05/03/95		0.00	38.61	312.43	—	—	—	—	—	—	—
	08/04/95		0.00	40.75	310.29	—	—	—	—	—	—	—
	11/10/95		0.00	42.68	308.36	—	—	—	—	—	—	—
	02/12/96		0.00	39.54	311.50	—	—	—	—	—	—	—
	08/19/96		0.00	41.80	309.24	—	—	—	—	—	—	—
MW-4#	01/27/94	350.14	0.00	43.37	306.77	ND	—	ND	ND	ND	ND	—
	04/25/94		0.00	42.28	307.86	ND	—	ND	1.2	ND	1.5	—
	07/08/94		0.00	43.2	306.94	ND	—	ND	ND	ND	ND	—
	10/05/94		0.00	43.97	306.17	ND	—	ND	ND	ND	ND	—
	01/04/95		0.00	44.96	305.18	ND	—	ND	ND	ND	ND	—
	05/03/95		0.00	36.06	314.08	—	—	—	—	—	—	—
	08/04/95		0.00	38.10	312.04	63	—	0.77	1.1	1.9	15	—
	11/10/95		0.00	40.61	309.53	—	—	—	—	—	—	—
	02/12/96		0.00	37.24	312.90	ND	—	ND	0.98	ND	0.67	—
	08/19/96		0.00	39.08	311.06	—	—	—	—	—	—	—
MW-5#	01/27/94	349.33	0.00	44.76	304.57	320	—	1.8	1.3	2.6	4.5	—
	04/25/94		0.00	44.30	305.03	160	—	ND	1.9	1.4	1.9	—
	07/08/94		0.00	45.17	304.16	120	—	ND	ND	1.1	1.8	—
	10/05/94		0.00	46.07	303.26	83	—	0.73	0.90	ND	3.0	—
	01/04/95		0.00	46.38	302.95	210	—	ND	0.74	ND	0.90	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (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 (ppb)
MW-5#	05/03/95		0.00	36.64	312.69	580	—	6.9	1.5	1.6	1.7	—
(con't)	08/04/95		0.00	39.00	310.33	550	—	5.4	0.76	1.2	11	—
	11/10/95		0.00	42.59	306.74	300	—	0.99	1.2	0.98	0.58	—
	02/12/96		0.00	37.25	312.08	420	—	8.2	2.1	1.7	1.2	—
	08/19/96		0.00	39.90	309.43	—	—	—	—	—	—	—

NOTES:
ppb = parts per billion
TPH-G = total petroleum hydrocarbons as gasoline
TPH-D = total petroleum hydrocarbons as diesel
ND = not detected at or above method detection limits
— = not measured/not analyzed
1,2-DCE = 1,2-Dichloroethane
* = reported by laboratory as non-gasoline mixture
** = well inaccessible
# = wells installed by Kapreelian Engineering at former Unocal Station #0543; resurveyed by Kier & Wright Civil Engineers & Surveyors, Inc. 09/20/93.
Trace = product present but too thin to be measured



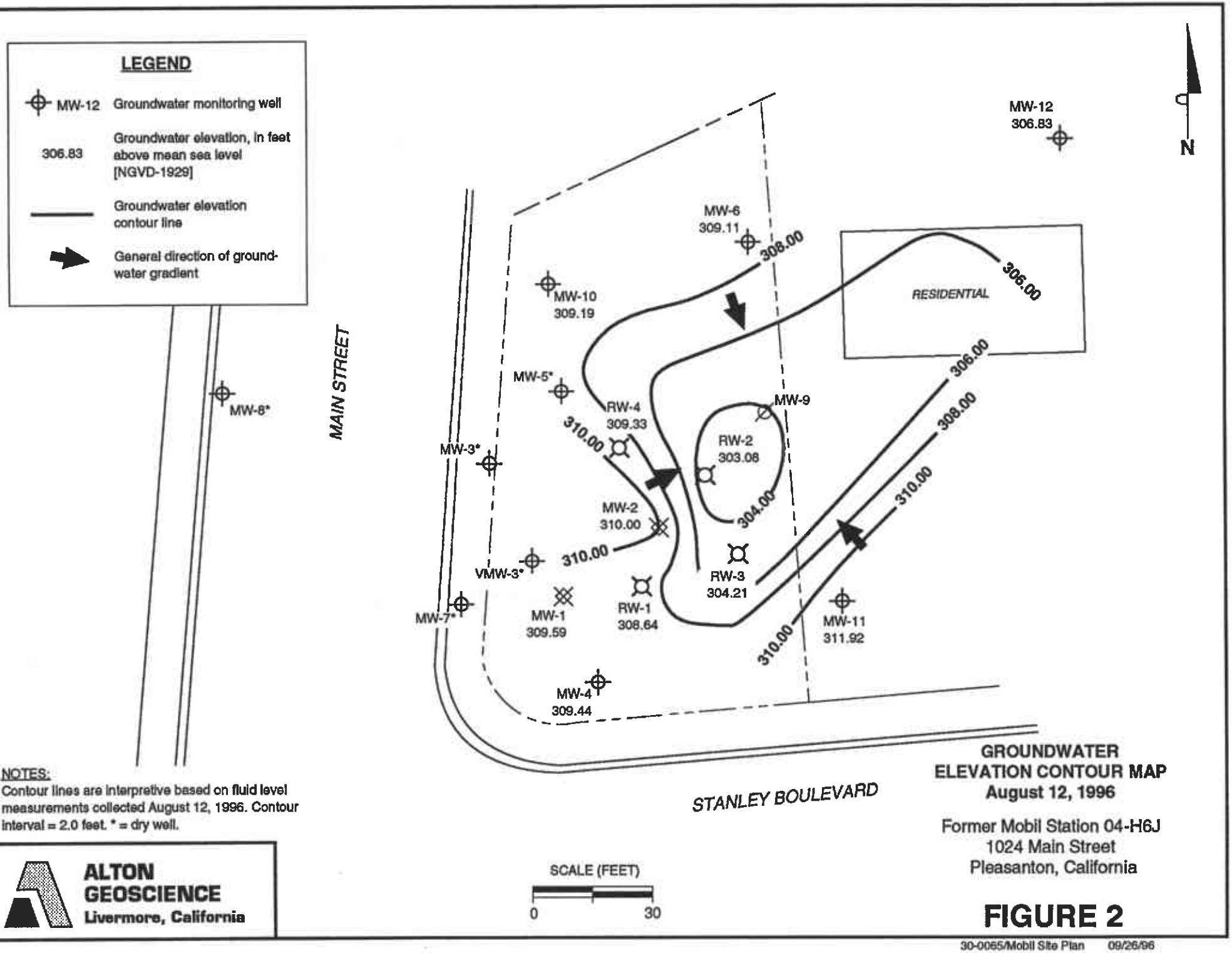
VICINITY MAP

Former Mobil Station 04-H6J
1024 Main Street
Pleasanton, California

ALTON GEOSCIENCE
Livermore, California

Project No. 30-0065

FIGURE 1



NOTES:
Contour lines are interpretive based on fluid level measurements collected August 12, 1996. Contour interval = 2.0 feet. * = dry well.

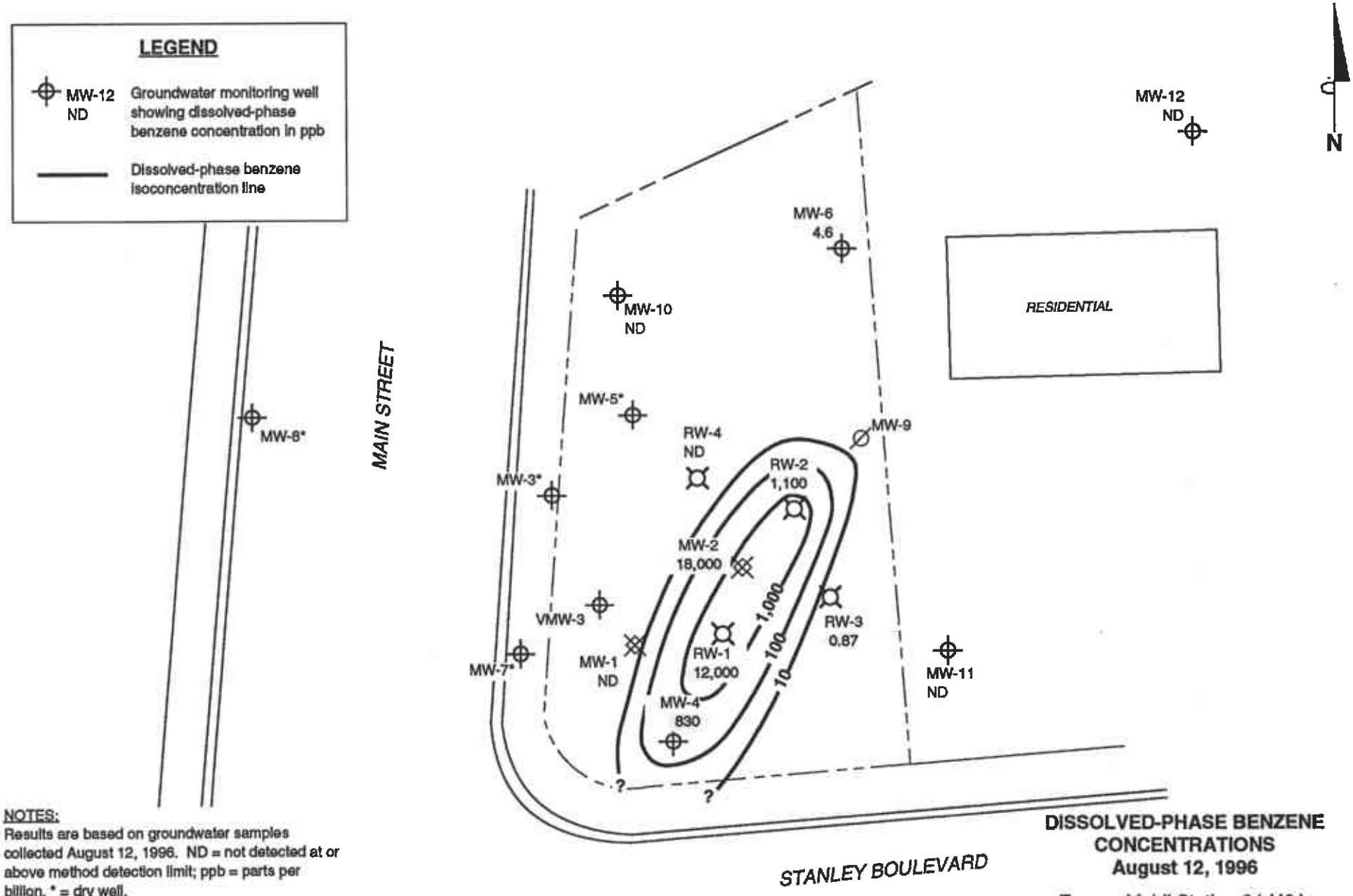
ALTON GEOSCIENCE
Livermore, California

GROUNDWATER ELEVATION CONTOUR MAP
August 12, 1996

Former Mobil Station 04-H6J
1024 Main Street
Pleasanton, California

FIGURE 2

30-0065/Mobil Site Plan 09/26/96



NOTES:
Results are based on groundwater samples collected August 12, 1996. ND = not detected at or above method detection limit; ppb = parts per billion. * = dry well.

ALTON GEOSCIENCE
Livermore, California

DISSOLVED-PHASE BENZENE CONCENTRATIONS
August 12, 1996

Former Mobil Station 04-H6J
1024 Main Street
Pleasanton, California

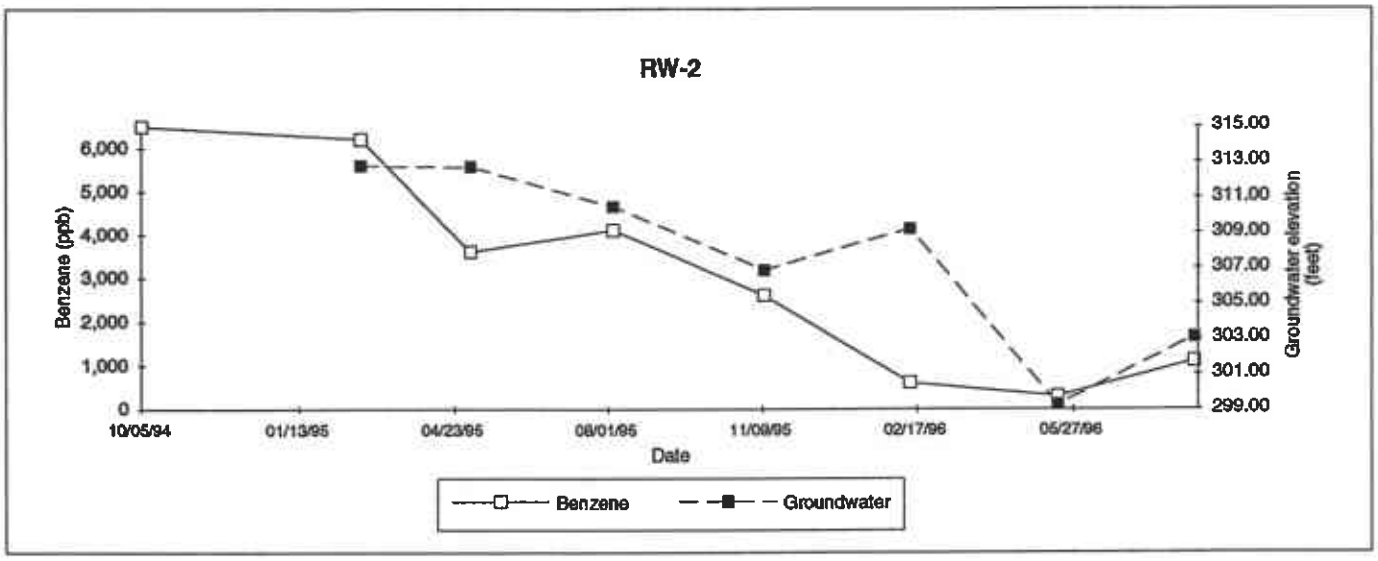
FIGURE 3

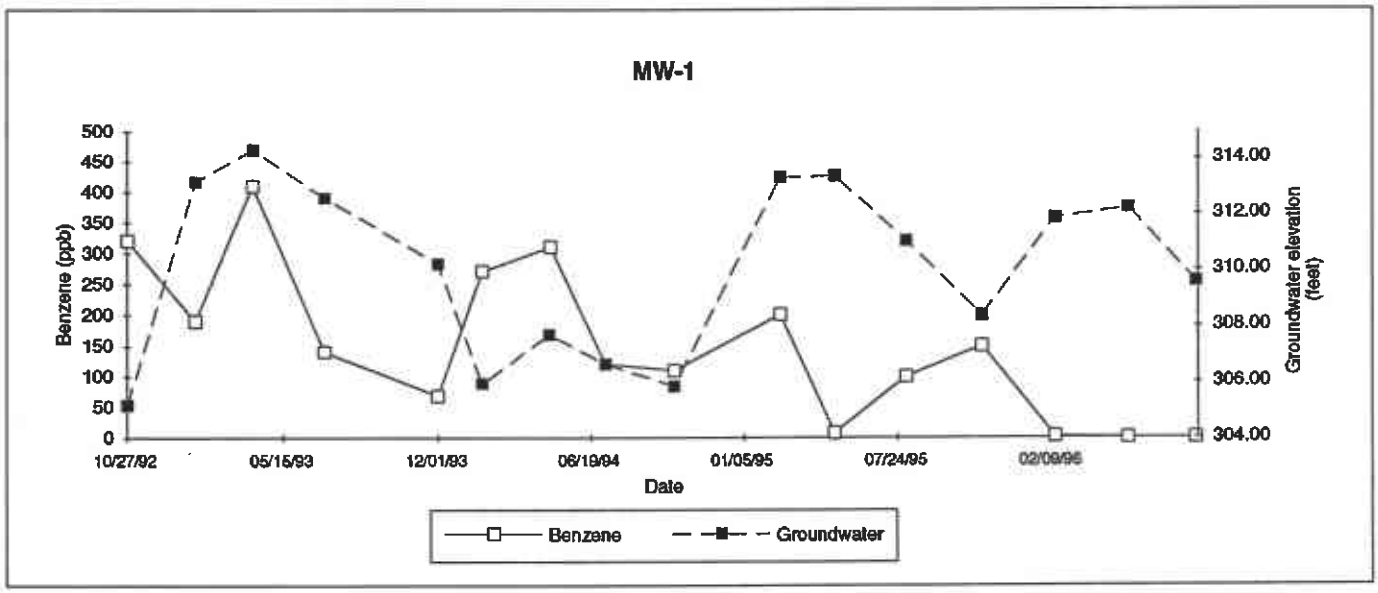
30-0065/Mobil Site Plan 09/25/96

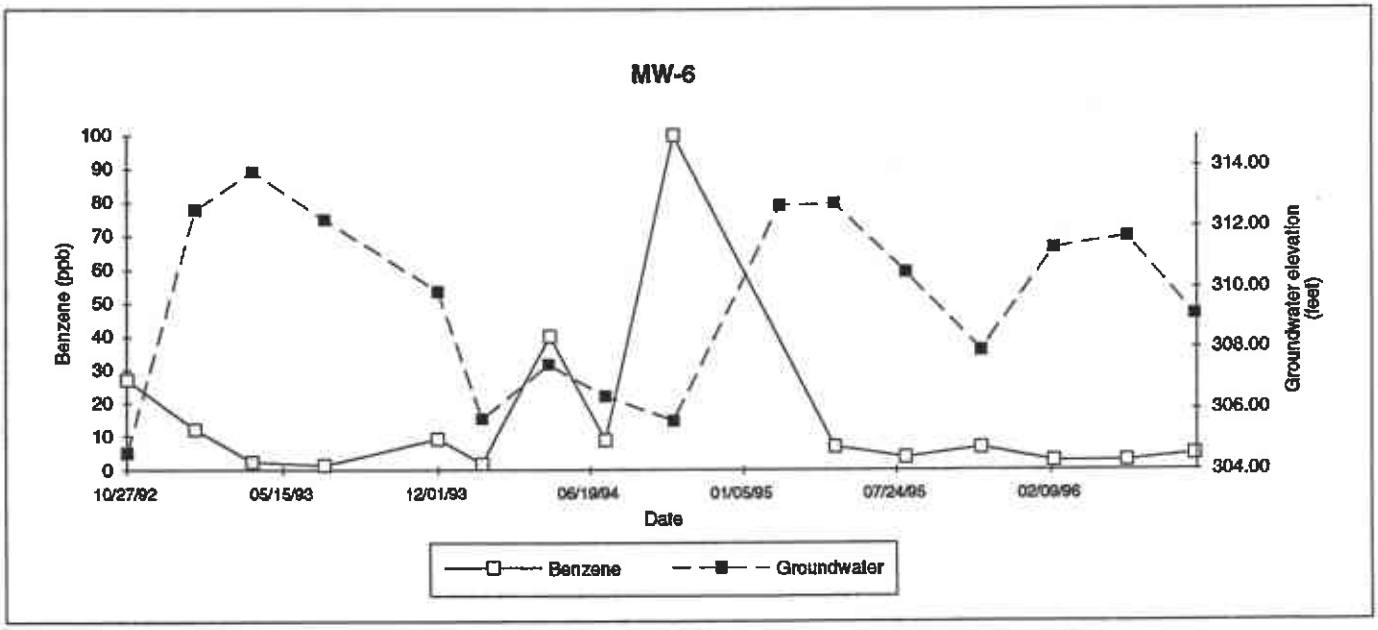
EXHIBIT 4

BENZENE VERSUS GROUNDWATER ELEVATION GRAPHS

Benzene vs. Groundwater Elevation Graphs







Note: ND values are plotted as zero

EXHIBIT 5

VAPOR EXTRACTION SYSTEM PERFORMANCE TABLES AND GRAPHS

Vapor Extraction System Monitoring

Former Mobil Station # 04-H6J

Date	Operation Time			INFLUENT						EFFLUENT						RECOVERY DATA		
	Hour Meter Reading (hours)	Operating Time (hours)	Up-Time Per Period (%)	Total Flow Rate (cfm)	Vacuum Reading at Well Header (in. H2O)	Inlet Temp. (deg F)	Total Well TPH-G Conc. (ppmv)	Influent TPH-G Conc. Total Well + Air Stripper (ppmv)		Effluent TPH-G Conc. (ppmv)		Effluent Benzene Conc. (ppmv)	Mass Emission TPH-G (lbs/day)	Mass Emission Benzene (lbs/day)	Outlet Temp. (deg F)	HC Recovery Per Period (gallons)	Cummulative HC Recovery (gallons)	Destruction Efficiency TPH-G (%)
(m/d/yy)								Field	Lab	Field	Lab	Lab						
4/4/95	11	0	0%	175	57	600	10,480	10,480	11,000	0	<1.2	0.030	0.0809	0.0008	809	0	0	100.0
4/12/95	202	191	99%	324	96	601	5,100	5,100		0					950	986	986	
4/22/95	440	238	98%	314	96	599	2,400	2,400		0					764	756	1,742	
4/28/95	536	95	99%	432	96	597	1,890	1,890	390	0	2.8	<0.016	0.4659	0.0020	710	202	1,944	99.3
5/5/95	601	66	31%	452	95	601	1,800	750		0					885	102	2,046	
5/12/95	768	167	99%	678	100	601	960	480	350	0	<2.3	<0.031	0.6006	0.0060	742	152	2,197	99.3
5/19/95	936	168	100%	678	100	601	1,010	310		0					701	116	2,314	
5/25/95	1080	144	100%	530	100	600	840	210		0					675	60	2,374	
6/1/95	1248	168	100%	535	97	598	870	270		0					683	57	2,431	
6/8/95	1415	167	99%	530	100	599	700	150	280	0	<1.2	<0.016	0.2450	0.0024	658	50	2,481	99.6
6/16/95	1607	192	100%	545	100	600	400	190		0					648	47	2,527	
6/23/95	1684	57	34%	540	98	601	820	180		0					647	15	2,542	
6/28/95	1695	31	26%	545	94	600	820	350		0					641	12	2,554	
7/7/95	1907	212	98%	545	90	601	320	140		0					635	75	2,629	
7/13/95	2055	148	103%	432	88	606	300	150		0					611	28	2,657	
7/18/95	2106	51	43%	471	74	599	650	230	320	0	2.1	0.044	0.3810	0.0059	648	12	2,669	99.3
7/28/95	2300	194	81%	432	84	NA	430	200		0					NA	50	2,719	
8/4/95	2303	3	2%	452	83	NA	890	270		0					NA	1	2,720	
8/11/95	2408	103	31%	589	68	NA	430	250		0					NA	37	2,757	
8/18/95	2440	34	20%	353	66	NA	480	240		0					NA	10	2,767	
8/28/95	2494	54	23%	432	62	600	730	290	370	0	<2.6	<0.016	0.4326	0.0020	679	15	2,782	99.3
9/1/95	2520	26	27%	441	68	629	190	300		0					678	9	2,791	
9/8/95	2524	4	3%	646	78	600	660	420	280	0	<2.3	0.029	0.4828	0.0045	693	2	2,793	99.2
9/14/95	2528	4	2%	354	54	600	670	410		0					857	2	2,795	
9/22/95	2625	97	51%	285	130	600	3,460	380		0					765	31	2,826	
9/29/95	2742	117	70%	334	115	600	3,200	360		0					879	34	2,861	
10/5/95	2771	29	20%	334	115	600	3,100	330		0					882	9	2,870	
10/12/95	2780	9	5%	324	100	600	2,310	300	320	0	<2.3	<0.016	0.2870	0.0016	712	2	2,872	99.3
11/10/95	2798	18	3%	324	100	600	2,310	300		0					712	5	2,877	
11/17/95	2839	41	24%	393	82	600	3,360	390	300	0	<2.3	<0.016	0.3482	0.0018	864	13	2,890	99.2
11/20/95	2910	71	99%	700	88	600	2,100	140		0					601	27	2,917	
11/27/95	3045	135	80%	700	86	587	830	100		0					603	30	2,948	
12/4/95	3213	168	100%	645	86	602	2,200	260	230	0	<2.3	<0.016	0.4828	0.0025	643	50	2,998	99.0
12/14/95	3383	170	71%	700	92	601	1,660	290		0					612	77	3,075	
12/21/95	3551	168	100%	700	94	600	1,150	150		0					608	69	3,144	
12/29/95	3656	105	55%	700	90	598	890	140		0					606	28	3,172	
1/5/96	3826	170	101%	692	91	597	830	220		0					600	57	3,228	
1/8/96	3897	71	99%	361	106	600	1,120	340	210	0	<2.3	<0.016	0.3198	0.0017	638	28	3,256	98.9
1/18/96	4132	235	98%	393	107	600	950	280		0					643	73	3,329	
2/2/96	4484	352	98%	353	106	600	720	220		0					630	87	3,416	
2/7/96	4602	118	98%	353	105	599	560	120	130	0	<2.3	0.024	0.3127	0.0016	613	19	3,435	98.2
2/12/96	4724	122	102%	353	105	600	630	160		0					602	16	3,451	
2/22/96	4965	241	100%	353	107	601	330	80		0					602	27	3,478	
2/29/96	5136	171	102%	353	105	598	450	110		0					601	15	3,493	
3/8/96	5281	145	101%	545	105	595	90	10	56	0	<2.3	<0.016	0.4828	0.0025	600	10	3,504	95.9
3/22/96	5662	381	99%	545	105	590	70	30		0					602	11	3,515	
4/5/96	5879	17	4%	545	90	577	190	90		0					600	1	3,516	
5/2/96	5942	263	46%	160	96	600	140	30		0					607	15	3,531	
5/14/96	6159	217	75%	272	95	581	130	60	180	0	18	0.038	0.2410	0.0012	602	6	3,537	98.7
5/27/96	6430	271	87%	254	90	598	140	50		0					601	10	3,547	
6/14/96	6508	78	18%	288	90	592	220	110	130	0	5.4	0.019	0.2634	0.0013	604	4	3,552	98.2
6/25/96	6521	13	5%	282	90	601	170	130		0					605	1	3,553	
7/8/96	6598	77	25%	147	90	599	140	110	166	0	<2.4	<0.016	0.1302	0.0007	601	5	3,558	98.6
7/25/96	6604	6	1%	221	92	599	210	50		0					615	0	3,558	
8/6/96	6607	3	1%	259	90	600	240	230		5					621	0	3,558	
8/12/96	6613	6	4%	241	92	600	250	190	176	20	<2.4	<0.016	0.2135	0.0011	621	1	3,559	98.7
8/27/96	6617	4	1%	260	88	599	230	220		0					618	1	3,560	
Total to Date =	6606	54%	= Average % Operation															

NOTES:

ppmv = parts per million volume

cfm = cubic feet per minute

HC Recovery Per Period = Hydrocarbons recovered based on weekly field data and an average hydrocarbon density of 6.26 lbs. per gallon

HC Destruction Efficiency = Hydrocarbon destruction efficiency based on monthly lab data

Total Well TPH-G Conc. = Concentration of total petroleum hydrocarbons as gasoline of soil vapor extracted from all open wells

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Inlet TPH-G and Total Hydrocarbons Removed vs. Operating Time

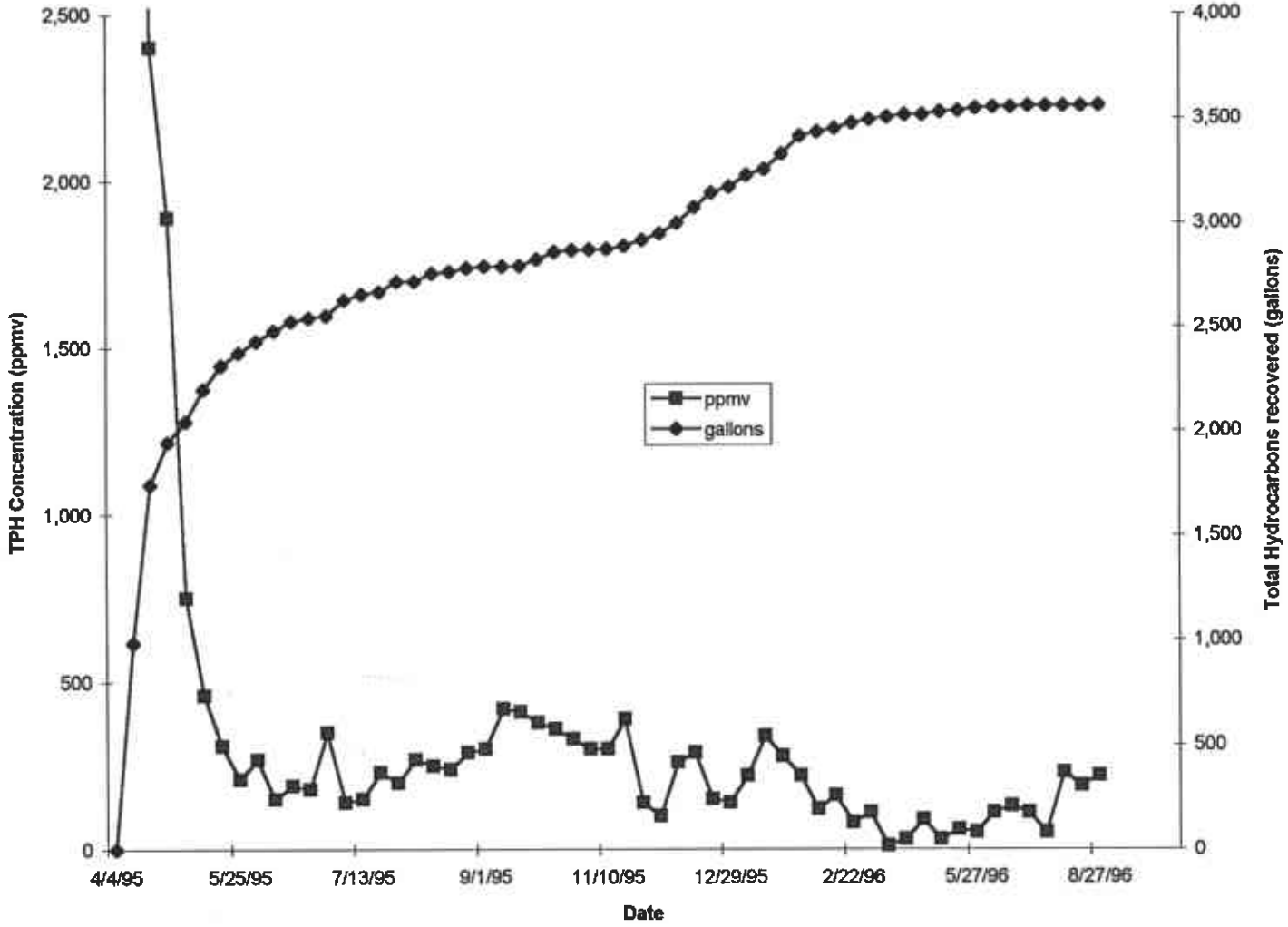

EXHIBIT 6

GROUNDWATER REMEDIATION PERFORMANCE TABLES

Table 1

Summary of Results of Groundwater Treatment System Monitoring

Former Mobil Station 04-H6J

Sample ID	Date of Sampling	Flow Meter Reading (gallons)	Effluent Discharge (gallons)	Average Flow Rate (gpd)	Total Discharged (gallons)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
I-1	04/27/95	640	0	0	0	240	840	44	54	8.0	39
	05/05/95	55,200	54,560	6,820	54,560	—	—	—	—	—	—
	05/12/95	197,540	142,340	20,334	196,900	6,500	790	400	860	92	660
	05/25/95	328,980	131,440	10,111	328,340	—	—	—	—	—	—
	06/01/95	331,090	2,110	301	330,450	—	—	—	—	—	—
	06/08/95	460,730	129,640	18,520	460,090	780	130	82	130	15	140
	06/16/95	590,300	129,570	16,196	589,660	—	—	—	—	—	—
	06/23/95	626,890	36,590	5,227	626,250	—	—	—	—	—	—
	06/28/95	646,240	19,350	3,870	645,600	—	—	—	—	—	—
	07/07/95	646,930	690	77	646,290	—	—	—	—	—	—
	07/13/95	677,120	30,190	5,032	676,480	3,400	1,100	190	370	45	300
	07/18/95	711,770	34,650	6,930	711,130	—	—	—	—	—	—
	07/28/95	831,040	119,270	11,927	830,400	—	—	—	—	—	—
	08/04/95	831,940	900	129	831,300	—	—	—	—	—	—
	08/11/95	897,280	65,340	9,334	896,640	—	—	—	—	—	—
	08/17/95	918,610	21,330	3,555	917,970	—	—	—	—	—	—
	08/28/95	964,370	45,760	4,160	963,730	7,900	2,100	940	1,100	120	1,200
	09/01/95	969,900	5,530	1,383	969,260	—	—	—	—	—	—
	09/07/95	972,180	2,280	380	971,540	5,800	1,300	540	750	51	760
	09/14/95	975,490	3,310	473	974,850	—	—	—	—	—	—
	09/22/95	1,038,540	63,050	7,881	1,037,900	—	—	—	—	—	—
	09/29/95	1,114,830	76,290	10,899	1,114,190	—	—	—	—	—	—
	10/05/95	1,133,030	18,200	3,033	1,132,390	—	—	—	—	—	—
	10/12/95	1,139,200	6,170	881	1,138,560	2,700	690	280	470	45	270
	10/23/95	1,169,390	30,190	2,745	1,168,750	—	—	—	—	—	—
	11/10/95	1,169,390	0	0	1,168,750	—	—	—	—	—	—
	11/17/95	1,171,890	2,500	357	1,171,250	4,900	1,200	450	680	55	500
	11/20/95	1,221,950	50,060	16,687	1,221,310	—	—	—	—	—	—
	11/27/95	1,295,450	73,500	10,500	1,294,810	—	—	—	—	—	—

Table 1

Summary of Results of Groundwater Treatment System Monitoring

Former Mobil Station 04-H6J

Sample ID	Date of Sampling	Flow Meter Reading (gallons)	Effluent Discharge (gallons)	Average Flow Rate (gpd)	Total Discharged (gallons)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
I-1 (con't)	12/04/95	1,400,780	105,330	15,047	1,400,140	2,300	380	290	510	27	230
	12/14/95	1,501,930	101,150	10,115	1,501,290	—	—	—	—	—	—
	12/21/95	1,608,890	106,960	15,280	1,608,250	—	—	—	—	—	—
	12/29/95	1,632,530	23,640	2,955	1,631,890	—	—	—	—	—	—
	01/05/96	1,690,780	58,250	8,321	1,690,140	—	—	—	—	—	—
	01/08/96	1,735,880	45,100	15,033	1,735,240	3,000	520	250	600	46	440
	01/18/96	1,865,520	129,640	12,964	1,864,880	—	—	—	—	—	—
	01/25/96	1,886,830	21,310	3,044	1,886,190	—	—	—	—	—	—
	02/02/96	2,014,240	127,410	15,926	2,013,600	—	—	—	—	—	—
	02/07/96	2,027,770	13,530	2,706	2,027,130	1,800	860	38	75	9.6	110
	02/12/96	2,027,950	180	36	2,027,310	—	—	—	—	—	—
	02/22/96	10	0	0	2,027,310	—	—	—	—	—	—
	02/29/96	14,090	14,080	2,011	2,041,390	—	—	—	—	—	—
	03/06/96	23,260	9,170	1,528	2,050,560	25,000	3,400	5,400	5,400	360	3,500
	03/14/96	34,660	11,400	1,425	2,061,960	—	—	—	—	—	—
	03/22/96	46,300	11,640	1,455	2,073,600	—	—	—	—	—	—
	04/08/96	54,120	7,820	460	2,081,420	10,000	2,000	690	1,500	120	930
	05/02/96	54,840	720	30	2,082,140	—	—	—	—	—	—
	05/14/96	139,900	85,060	7,088	2,167,200	4,400	840	330	820	53	580
	05/28/96	251,390	111,490	7,964	2,278,690	—	—	—	—	—	—
	06/14/96	264,690	13,300	782	2,291,990	1,200	330	170	16	51	120
	07/08/96	295,770	31,080	1,295	2,323,070	150	65	3.7	4.4	0.60	6.7
	07/25/96	298,890	3,120	184	2,326,190	—	—	—	—	—	—
	08/08/96	300,120	1,230	88	2,327,420	—	—	—	—	—	—
	08/12/96	302,120	2,000	500	2,329,420	890	190	110	190	14	120
	08/27/96	303,730	1,610	107	2,331,030	—	—	—	—	—	—
	09/13/96	311,780	8,050	474	2,339,080	—	—	—	—	—	—
	10/04/96	311,780	0	0	2,339,080	—	—	—	—	—	—

Table 1

Summary of Results of Groundwater Treatment System Monitoring

Former Mobil Station 04-H6J

Sample ID	Date of Sampling	Flow Meter Reading (gallons)	Effluent Discharge (gallons)	Average Flow Rate (gpd)	Total Discharged (gallons)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
E-1	04/27/95	—	—	—	—	ND	87	ND	ND	ND	ND
	05/12/95	—	—	—	—	670	180	3.4	5.8	ND	9.8
	06/08/95	—	—	—	—	ND	ND	0.87	0.92	ND	1.4
	07/13/95	—	—	—	—	ND	110	ND	ND	ND	ND
	08/28/95	—	—	—	—	140	220	2.6	4.4	0.98	6.2
	09/07/95	—	—	—	—	200	290	5.8	6.9	0.77	93
	10/12/95	—	—	—	—	ND	120	ND	ND	ND	ND
	11/17/95	—	—	—	—	93	230	0.73	1.3	ND	1.4
	12/04/95	—	—	—	—	ND	120	ND	ND	ND	ND
	01/08/96	—	—	—	—	110	76	52	11	0.74	9.4
	02/07/96	—	—	—	—	840	470	4.2	7.7	2.1	16
	03/06/96	—	—	—	—	140	420	1.1	0.94	ND	0.59
	04/08/96	—	—	—	—	340	190	11	7.1	3.5	21
	05/14/96	—	—	—	—	630	330	13	31	3.8	29
	06/14/96	—	—	—	—	ND	79	ND	ND	ND	ND
	07/08/96	—	—	—	—	ND	ND	0.71	ND	ND	ND
	08/12/96	—	—	—	—	73	72	1.7	3.0	ND	27

Total Effluent Discharged to Date: **2,339,080** gallons

NOTES:
- ppb = parts per billion
- TPH-G = total petroleum hydrocarbons as gasoline
- ND = not detected at or above method detection limit
- — = not measured/not analyzed
- gpd = gallons per day
- I-1 = influent
- E-1 = effluent from primary carbon drum
- TPH-D = total petroleum hydrocarbons as diesel
- * = new flow meter installed 02/22/96

EXHIBIT 7

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 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

Groundwater monitoring wells 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 8

MONITORING WELL SAMPLING FORMS

GROUND WATER SAMPLING FIELD NOTES

Site: 84-H65 Project No.: 41-0063-55 Sampled By: JM Date: 8-12-96

Well No. MW-10
Total Depth (feet) 54.57
Depth to Water (feet): 36.76
Water Column (feet): 15.81
80% Recharge Depth (feet): 41.7
Purge Method: Sub
Depth to Product (feet): 0
Product Recovered (gallons): 0
Casing Diameter (Inches): 4
1 Well Volume (gallons): 10.43

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
12:20			10	.82	74.2	7.71
			20	.81	74.5	7.80
	12:29	40.21	30	.81	75.2	7.85
	Total Purged		31.5	Time Sampled		12:3

31.3

Comments:
Turbidity =

Well No. MW-1
Total Depth (feet) 50.59
Depth to Water (feet): 38.44
Water Column (feet): 12.15
80% Recharge Depth (feet): 40.87
Purge Method: Sub
Depth to Product (feet): 0
Product Recovered (gallons): 0
Casing Diameter (Inches): 4
1 Well Volume (gallons): 2.02

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
12:33			8	.83	74.2	7.33
			16	.82	74.3	7.52
	12:43	39.11	24	.80	75.7	7.51
	Total Purged		29.1	Time Sampled		12:5

24.2

Comments:
Turbidity =

Well No. MW-4
Total Depth (feet) 48.96
Depth to Water (feet): 38.63
Water Column (feet): 10.33
80% Recharge Depth (feet): 40.7
Purge Method: Sub
Depth to Product (feet): 0
Product Recovered (gallons): 0
Casing Diameter (Inches): 4
1 Well Volume (gallons): 6.61

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
1300			7	.71	78.7	7.84
			14	.70	79.2	7.66
	1310	39.05	20	.75	80.1	7.56
	Total Purged		20.5	Time Sampled		13:15

20.4

Comments:
Turbidity =

Well No. MW-6
Total Depth (feet) 54.09
Depth to Water (feet): 39.12
Water Column (feet): 14.99
80% Recharge Depth (feet): 42.1
Purge Method: Sub
Depth to Product (feet): 0
Product Recovered (gallons): 0
Casing Diameter (Inches): 4
1 Well Volume (gallons): 9.85

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
13:17			10	.88	80.4	7.57
			20	.89	81.2	7.66
	1327	40.72	30	.90	81.5	7.82
	Total Purged		30	Time Sampled		1347

29.

Comments:
Turbidity =

Well No. MW-2
Total Depth (feet) 47.86
Depth to Water (feet): 38.45
Water Column (feet): 10.41
80% Recharge Depth (feet): 40.53
Purge Method: Sub
Depth to Product (feet): 0
Product Recovered (gallons):
Casing Diameter (Inches): 2
1 Well Volume (gallons): 1.67

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
1352			1	.80	81.5	7.33
	1357		3	.79	80.2	7.47
		39.55	5	.81	76.2	7.64
	Total Purged		5.3	Time Sampled		1400

20.2
1.77
5.3

Comments:
Turbidity =

Well No. _____
Total Depth (feet) _____
Depth to Water (feet): _____
Water Column (feet): _____
80% Recharge Depth (feet): _____
Purge Method: _____
Depth to Product (feet): _____
Product Recovered (gallons): _____
Casing Diameter (Inches): _____
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 =

GROUND WATER SAMPLING FIELD NOTES

Site: 64-H65 Project No.: 41-0063 Sampled By: JM Date: 8-12-96

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

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
		System		Plant		
	Total Purged			Time Sampled		1107

Comments:
Turbidity =

Well No. Rw-3
Total Depth (feet)_____
Depth to Water (feet):_____
Water Column (feet):_____
80% Recharge Depth (feet):_____
Purge Method:_____
Depth to Product (feet):_____
Product Recovered (gallons):_____
Casing Diameter (Inches):_____
1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
			System Pump			
	Total Purged			Time Sampled		1113

Comments:
Turbidity =

Well No. Rw-2
Total Depth (feet)_____
Depth to Water (feet):_____
Water Column (feet):_____
80% Recharge Depth (feet):_____
Purge Method:_____
Depth to Product (feet):_____
Product Recovered (gallons):_____
Casing Diameter (Inches):_____
1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
		System		Pump		
	Total Purged			Time Sampled		1120

Comments:
Turbidity =

Well No. Rw-4
Total Depth (feet)_____
Depth to Water (feet):_____
Water Column (feet):_____
80% Recharge Depth (feet):_____
Purge Method:_____
Depth to Product (feet):_____
Product Recovered (gallons):_____
Casing Diameter (Inches):_____
1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
		System		Pump		
	Total Purged			Time Sampled		1134

Comments:
Turbidity =

Well No. MW-12
Total Depth (feet) 54.70
Depth to Water (feet): 40.32
Water Column (feet): 14.38
80% Recharge Depth (feet): 43.2
Purge Method: Sub
Depth to Product (feet): 0
Product Recovered (gallons): 0
Casing Diameter (Inches): 4
1 Well Volume (gallons): 9.5

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
				1.22	122	7.75
				1.21	121	7.68
				1.20	120	7.65
	Total Purged		28.5	Time Sampled		1154

28.5

Comments:
Turbidity =

Well No. MW-11
Total Depth (feet) 45.05
Depth to Water (feet): 35.64
Water Column (feet): 9.41
80% Recharge Depth (feet): 37.52
Purge Method: Sub
Depth to Product (feet): 0
Product Recovered (gallons): 0
Casing Diameter (Inches): 4
1 Well Volume (gallons): 6.71
18.

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
				1.77	81.7	7.71
				1.82	78.7	7.63
				1.81	80.5	7.51
	Total Purged		19	Time Sampled		1215

Comments:
Turbidity =

EXHIBIT 9

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:	Mobil #04-H6J	Sampled: Aug 12, 1996
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Aug 14, 1996
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 21, 1996
Attention: Ron Scheele	First Sample #:	608-1042	

QC Batch Number:	GC081696	GC081696	GC081696	GC081696	GC081696	GC081696
	802011A	802011A	802011A	802011A	802011A	802011A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 608-1042 RW-1	Sample I.D. 608-1043 RW-2	Sample I.D. 608-1044 RW-3	Sample I.D. 608-1045 RW-4	Sample I.D. 608-1046 MW-12	Sample I.D. 608-1047 MW-11
Purgeable Hydrocarbons	50	140,000	5,400	N.D.	N.D.	N.D.	N.D.
Benzene	0.50	12,000	1,100	0.87	N.D.	N.D.	N.D.
Toluene	0.50	25,000	36	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	2,200	320	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	15,000	190	N.D.	N.D.	N.D.	N.D.
MTBE:	0.60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	--	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	400	20	1.0	1.0	1.0	1.0
Date Analyzed:	8/16/96	8/16/96	8/16/96	8/16/96	8/16/96	8/16/96
Instrument Identification:	HP-11	HP-11	HP-11	HP-11	HP-11	HP-11
Surrogate Recovery, %: (QC Limits = 70-130%)	99	93	87	90	88	88

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 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	Client Project ID:	Mobil #04-H6J	Sampled: Aug 12, 1996
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Aug 14, 1996
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 21, 1996
Attention: Ron Scheele	First Sample #:	608-1048	

QC Batch Number:	GC081696	GC081696	GC081696	GC081696	GC082096
	802011A	802011A	802011A	802011A	802011A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 608-1048 MW-10	Sample I.D. 608-1049 MW-1	Sample I.D. 608-1050 MW-4	Sample I.D. 608-1051 MW-6	Sample I.D. 608-1052 MW-2
Purgeable Hydrocarbons	50	N.D.	N.D.	4,000	75	86,000
Benzene	0.50	N.D.	N.D.	830	4.6	18,000
Toluene	0.50	N.D.	N.D.	180	2.6	16,000
Ethyl Benzene	0.50	N.D.	N.D.	160	N.D.	1,700
Total Xylenes	0.50	N.D.	N.D.	250	1.7	10,000
MTBE:		N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		--	--	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	20	1.0	500
Date Analyzed:	8/16/96	8/16/96	8/16/96	8/16/96	8/20/96
Instrument Identification:	HP-11	HP-11	HP-11	HP-11	HP-11
Surrogate Recovery, %: (QC Limits = 70-130%)	89	88	96	94	88

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 Bava
Project Manager

Sequoia Analytical

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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: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 6081042-052

Reported: Aug 21, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082096 802011A	GC082096 802011A	GC082096 802011A	GC082096 802011A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn
MS/MSD #:	6080373	6080373	6080373	6080373
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/20/96	8/20/96	8/20/96	8/20/96
Analyzed Date:	8/20/96	8/20/96	8/20/96	8/20/96
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	17	19	56
MS % Recovery:	100	85	95	93
Dup. Result:	22	19	21	61
MSD % Recov.:	110	95	105	102
RPD:	9.5	11	10	8.6
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	11LCS082096	11LCS082096	11LCS082096	11LCS082096
Prepared Date:	8/20/96	8/20/96	8/20/96	8/20/96
Analyzed Date:	8/20/96	8/20/96	8/20/96	8/20/96
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	22	19	21	61
LCS % Recov.:	110	95	105	102
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

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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: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 6081042-052

Reported: Aug 21, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC081696 802011A	GC081696 802011A	GC081696 802011A	GC081696 802011A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn
MS/MSD #:	6081045	6081045	6081045	6081045
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/16/96	8/16/96	8/16/96	8/16/96
Analyzed Date:	8/16/96	8/16/96	8/16/96	8/16/96
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	22	19	21	61
MS % Recovery:	110	95	105	102
Dup. Result:	20	17	19	56
MSD % Recov.:	100	85	95	93
RPD:	9.5	11	10	8.6
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	11LCS081696	11LCS081696	11LCS081696	11LCS081696
Prepared Date:	8/16/96	8/16/96	8/16/96	8/16/96
Analyzed Date:	8/16/96	8/16/96	8/16/96	8/16/96
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	21	19	20	61
LCS % Recov.:	105	95	100	102
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
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
☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Alton Geoscience | Station No./Site Address: 04-H65

Address: 30 A Lindbergh Ave | Project Contact: Ron Scheele

City: Livermore State: CA Zip: 94550 | Mobil Oil Engineer: Cherie Foutch

Tel: (510) 606-9150 Fax.: (510) 606-9160 | 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*	
PW-1	H_2O	8-12-96	1107	HCl	3	VOA		X	6081042				A-C								X	
PW-2			1115		3			X	6081043												X	
PW-3			1120		3			X	6081044												X	
PW-4			1130		3			X	6081045												X	
MW-12			1154		3			X	6081046												X	
MW-11			1215		3			X	6081047												X	
MW-10			1231		3			X	6081048												X	
MW-1			1255		3			X	6081049												X	
MW-4			1315		3			X	6081050												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:	Relinquished by:	Date/Time:
			8/14/96 1436
Relinquished by:	8/14/96 1646	Relinquished by:	Date/Time:
Relinquished by:	Date/Time:	Relinquished by Lab by:	Date/Time: 8/14/96 1645

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

Sample Integrity:
Intact ___ On Ice ___

Remarks: * RUN Highest MTBE For 8240.

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Alton Geoscience	Station No./Site Address: 04-HGJ
Address: 30 A Lindbergh Ave	Project Contact: Ron Scheele
City: Livermore State: CA Zip: 94550	Mobil Oil Engineer: Cherise Fouch
Tel: (510) 606-9150 Fax.: (510) 606-9760	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-6	H_2O	8-12-96	13:40	HCl	3	VOA		X	8081051				A-C								X	
MW-2	↓	↓	1400	↓	↓	↓		X	8081052				↓								X	
					1																	

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:	Relinquished by:	Date/Time: 8/14/96 1456
Relinquished by:	Date/Time: 8/13/96 1645	Relinquished by:	Date/Time:
Relinquished by:	Date/Time:	Relinquished by:	Date/Time: 8/14/96 1645

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

Sample Integrity:
Intact ___ On Ice ___

Remarks: * Ron Highest MTBE for 8240.

Sequoia Analytical

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Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Aug 12, 1996
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Aug 12, 1996
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 19, 1996
Attention: Ron Scheele	First Sample #:	608-0874	

QC Batch Number: GC081596 GC081596
802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 608-0874 I-1	Sample I.D. 608-0875 E-1
Purgeable Hydrocarbons	50	890	73
Benzene	0.50	110	1.7
Toluene	0.50	190	3.0
Ethyl Benzene	0.50	14	N.D.
Total Xylenes	0.50	120	27
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0
Date Analyzed:	8/15/96	8/15/96
Instrument Identification:	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	98	101

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 Bava
Project Manager

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AUG 22 1996

6080874.ALT <1>

Sequoia Analytical

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Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Aug 12, 1996
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Aug 12, 1996
Livermore, CA 94550	Analysis Method:	EPA 3510/8015 Mod.	Reported: Aug 19, 1996
Attention: Ron Scheele	First Sample #:	608-0874	

QC Batch Number: SP081496 SP081496

8015EXA 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 608-0874 I-1	Sample I.D. 608-0875 E-1
Extractable Hydrocarbons	50	190	72
Chromatogram Pattern:		Unidentified Hydrocarbon <C15	Unidentified Hydrocarbon <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	8/14/96	8/14/96
Date Analyzed:	8/15/96	8/15/96
Instrument Identification:	HP-3B	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 6080874-875

Reported: Aug 19, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC081596	GC081596	GC081596	GC081596	SP081496
	802002A	802002A	802002A	802002A	8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	S.Chullakorn	S.Chullakorn	S.Chullakorn	S.Chullakorn	J.Dinsay
MS/MSD #:	69080841	69080841	69080841	69080841	BLK081496
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/15/96	8/15/96	8/15/96	8/15/96	8/14/96
Analyzed Date:	8/15/96	8/15/96	8/15/96	8/15/96	8/14/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	22	21	22	64	280
MS % Recovery:	110	105	110	107	93
Result:	20	19	20	60	280
MSD % Recov.:	100	95	100	100	93
RPD:	9.5	10	9.5	6.5	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-50

LCS #:	2LCS081596	2LCS081596	2LCS081596	2LCS081596	LCS081496
Prepared Date:	8/15/96	8/15/96	8/15/96	8/15/96	8/14/96
Analyzed Date:	8/15/96	8/15/96	8/15/96	8/15/96	8/14/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	22	21	22	66	330
LCS % Recov.:	110	105	110	110	110

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	50-150

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

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Oil Oil Consulting Firm: AHow Geoscience
Station No./Site Address: 04 H6 J - Main St. Pleasanton

ess: 30A Lindbergh Ave
Project Contact: Rob Schoele

Livermore State: CA Zip: 94550
Mobil Oil Engineer: Steve Pao

6066150 Fax.: 6066926
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		
E-1	H2O	9/12/96	1030	HCl/none	4	3 VOA 1 L.		X	X			6080874			AD							
E-1	H2O	9/12/96	1030	HCl/none	4	3 VOA 1 L.		X	X			6080875			↓							

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

nquished by: Date/Time: 9/12/96 1430
Relinquished by: Date/Time: 9/12/96 1430

nquished by: Date/Time: 9/13 1730
Relinquished by: Date/Time:

nquished by: Date/Time:
Relinquished by: Date/Time: 17:30 9/13/96

marks:

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

Sample Integrity:
Intact ____ On Ice ____

Sequoia Analytical

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Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Jul 8, 1996
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Jul 10, 1996
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jul 17, 1996
Attention: Ron Scheele	First Sample #:	607-0610	

QC Batch Number: GC071296 GC071296
802005A 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 607-0610 I-1	Sample I.D. 607-0611 E-1
Purgeable Hydrocarbons	50	150	N.D.
Benzene	0.50	3.7	0.71
Toluene	0.50	4.4	N.D.
Ethyl Benzene	0.50	0.60	N.D.
Total Xylenes	0.50	6.7	N.D.
Chromatogram Pattern:		Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	7/12/96	7/12/96
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	93	89

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 Bava
Project Manager

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6070610.ALT <1>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled:
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Jul 10, 1996
Livermore, CA 94550	Analysis Method:	EPA 3510/8015 Mod.	Reported:
Attention: Ron Scheele	First Sample #:	607-0610	

QC Batch Number: SP071196 SP071196

8015EXA 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 607-0610 I-1	Sample I.D. 607-0611 E-1
Extractable Hydrocarbons	50	65	N.D.
Chromatogram Pattern:		Unidentified Hydrocarbons <C15	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	7/11/96	7/11/96
Date Analyzed:	7/12/96	7/12/96
Instrument Identification:	HP-3A	HP-3A

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Sequoia Analytical

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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: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid
QC Sample Group: 6070610-611

Reported: Jul 17, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC071296	GC071296	GC071296	GC071296	SP071196
	802005A	802005A	802005A	802005A	8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	J. Dinsay
MS/MSD #:	6070609	6070609	6070609	6070609	BLK071196
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/12/96	7/12/96	7/12/96	7/12/96	7/11/96
Analyzed Date:	7/12/96	7/12/96	7/12/96	7/12/96	7/11/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	GCHP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	18	17	18	54	310
MS % Recovery:	90	85	90	90	103
Dup. Result:	16	15	16	48	270
MSD % Recov.:	80	75	80	80	90
RPD:	12	13	12	12	14
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	5LCS071296	5LCS071296	5LCS071296	5LCS071296	LCS071196
Prepared Date:	7/12/96	7/12/96	7/12/96	7/12/96	7/11/96
Analyzed Date:	7/12/96	7/12/96	7/12/96	7/12/96	7/11/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	GCHP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	18	17	17	52	300
LCS % Recov.:	90	85	85	87	100
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	50-150

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

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Mobil Oil Consulting Firm: Alton Geoscience
Address: 30A Lindbergh Ave
City: Livermore State: CA Zip: 94550
Tel: 6060 9150 Fax.: 6060 9260

Station No./Site Address: 0 4 H 6 J
Project Contact: Ron Scheele
Mobil Oil Engineer: ~~Steve Testa~~ Charlene Fouch
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		
E-1	H2O	7/8/96	12		4			X	X			8070610			X							
E-1	H2O	7/8/96	12		4			X	X			8070611			↓							

CODING (check one)

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- 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 TH 9 30
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by: Date/Time: 7/10/96 1620
Relinquished by: Date/Time: 7/10/96 1815
Relinquished by: Date/Time:

Relinquished by: Date/Time: 7/10/96 1620
Relinquished by: Date/Time:
Relinquished at Lab by: Date/Time: 7/10/96 1815

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

Sample Integrity:
Intact ____ On Ice ____

Remarks:

Sequoia Analytical

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Alton Geoscience	Client Project ID:	Mobil #04 H6J	Sampled: Aug 12, 1996
30-A Lindbergh Ave.	Sample Matrix:	Air	Received: Aug 12, 1996
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 16, 1996
Attention: Ron Scheele	First Sample #:	608-0850	

QC Batch Number: GC081396 802002B | GC081396 802002B | GC081396 802002B | GC081396 802002B

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 608-0850 I-1	Sample I.D. 608-0851 I-2	Sample I.D. 608-0852 I-3	Sample I.D. 608-0853 E-1
Purgeable Hydrocarbons	10	800	54	720	N.D.
Benzene	0.050	6.1	0.32	6.6	N.D.
Toluene	0.050	13	1.7	20	0.091
Ethyl Benzene	0.050	6.1	0.28	3.1	N.D.
Total Xylenes	0.050	54	5.1	21	0.20
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0	5.0	1.0
Date Analyzed:	8/13/96	8/13/96	8/13/96	8/13/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	181*	100	186*	91

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

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SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Please Note:
* Surrogate recovery out of limits due to coelution.

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience	Client Project ID:	Mobil #04 H6J	Sampled: Aug 12, 1996
30-A Lindbergh Ave.	Sample Matrix:	Air	Received: Aug 12, 1996
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 16, 1996
Attention: Ron Scheele	First Sample #:	608-0850	

QC Batch Number: GC081396 802002B | GC081396 802002B | GC081396 802002B | GC081396 802002B

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit ppmv	Sample I.D. 608-0850 I-1	Sample I.D. 608-0851 I-2	Sample I.D. 608-0852 I-3	Sample I.D. 608-0853 E-1
Purgeable Hydrocarbons	2.4	196	13	176	N.D.
Benzene	0.016	2.0	0.10	2.1	N.D.
Toluene	0.013	3.5	0.45	53	0.024
Ethyl Benzene	0.012	1.4	0.060	0.71	N.D.
Total Xylenes	0.012	13	1.2	4.8	0.046
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0	5.0	1.0
Date Analyzed:	8/13/96	8/13/96	8/13/96	8/13/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	181*	100	186*	91

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 Bava
Project Manager

Please Note:
* Surrogate recovery out of limits due to coelution.

Sequoia Analytical

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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: Ron Scheele

Client Project ID: Mobil #04 H6J
Matrix: Vapor
QC Sample Group: 6080850-853

Reported: Aug 16, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC081396 802002B	GC081396 802002B	GC081396 802002B	GC081396 802002B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Brewer	M. Brewer	M. Brewer	M. Brewer
MS/MSD #:	BLK081396	BLK081396	BLK081396	BLK081396
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/13/96	8/13/96	8/13/96	8/13/96
Analyzed Date:	8/13/96	8/13/96	8/13/96	8/13/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.5	9.2	9.5	29
MS % Recovery:	95	92	95	97
Dup. Result:	9.4	9.1	9.3	28
MSD % Recov.:	94	91	93	93
RPD:	1.1	1.1	2.1	3.5
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	2LCS081396	2LCS081396	2LCS081396	2LCS081396
Prepared Date:	8/13/96	8/13/96	8/13/96	8/13/96
Analyzed Date:	8/13/96	8/13/96	8/13/96	8/13/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	20	19	20	60
LCS % Recov.:	100	95	100	100

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
CHAIN OF CUSTODY

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☒ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Alton Geoscience	Station No./Site Address: 0446 J
Address: 30A Lindbergh Ave	Project Contact: Ron Scheelp
City: Livermore State: CA Zip: 94550	Mobil Oil Engineer: Cheline Fouteh
Tel: 6069150 Fax.: 6CG 9260	Sampler(s) (signature): Paul Ramos

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		
I-1	A,r	7/8/96	12		1	bag		X		6070600												
I-2	A,r	7/8/96	12		1	bag		X		6070601												
I-3	A,r	7/8/96	12		1	bag		X		6070602												
E-1	A,r	7/8/96	12		1	bag		X		6070603												

CODING (check one) 3649

- 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: 7/10/96 1630	Relinquished by:	Date/Time: 7/10/96 1630
Relinquished by:	Date/Time: 7/10/96 1815	Relinquished by:	Date/Time:
Relinquished by:	Date/Time:	Relinquished in Lab by:	Date/Time: 7/10/96 1815

Remarks:

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

Sample Integrity: Intact ____ On Ice ____