GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-190-03-004

Prepared for:

Mobil Oil Corporation
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October 11, 1995

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CIVIL
STATE OF CALIFORNIA

GROUNDWATER MONITORING AND SAMPLING REPORT

Former Mobil Oil Corporation Station 04-FGN
14994 East 14th Street
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INTRODUCTION

This report presents the results and findings of the August 2, 1995 groundwater monitoring and sampling conducted by Alisto Engineering Group at former Mobil Oil Corporation Station 04-FGN, 14994 East 14th Street, San Leandro, California. A site vicinity map is shown in Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Depth to groundwater was also measured at the neighboring Unocal Corporation service station, 15008 East 14th Street, San Leandro, California, on August 2, 1995. The groundwater elevations are presented in Table 2.

Before sample collection, each well was purged of 3 casing volumes, while recording field readings of pH, temperature, and electrical conductivity. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A.

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples collected during this and previous monitoring and sampling events are summarized in Table 1. The potentiometric groundwater elevations for the Mobil Oil site, as interpreted from the results of this monitoring event, and groundwater elevations collected from the groundwater monitoring wells at the Unocal site are shown in Figure 2. The results of groundwater analysis are shown in Figure 3. The laboratory report and chain of custody record are presented in Appendix B.

SUMMARY OF FINDINGS

The findings of the August 2, 1995 groundwater monitoring and sampling event are summarized as follows:

- Free product was not observed in the groundwater monitoring wells.
- Interpretation of groundwater elevation data at the site indicates a gradient of 0.003 foot per foot in a southeasterly direction.
- Total petroleum hydrocarbons as gasoline (TPH-G) was detected in Monitoring Wells MW-1A through MW-3A and MW-5A at concentrations of up to 10000 micrograms per liter (ug/l) in MW-1A.
- Benzene was detected at concentrations of up to 36 ug/l in Monitoring Wells MW-1A through MW-3A and MW-5A.
- Petroleum hydrocarbons were not detected above the reported detection limits in Monitoring Wells MW-4A, MW-6A, and MW-7A.

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
FORMER MOBIL OIL STATION 04-FGN
14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

ALISTO PROJECT NO. 10-190

WELL ID	DATE OF SAMPLING/ MONITORIN	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TOG (ug/l)	LAB
MW-1A (c)	03/31/88	36.35	---	---	29000	ND<10000	ND<5.0	ND<5.0	550	640	ND<20000	CTL
MW-1A	01/31/89	36.35	---	---	11200	---	260	ND<20	500	500	---	CTL
MW-1A	02/24/94	36.35	9.42	26.93	11000	2500	70	ND<0.5	260	180	ND<5000	SAL
MW-1A	08/23/94	36.35	12.00	24.35	13000	7100	61	50	280	230	ND<5000	SAL
MW-1A	11/23/94	36.35	11.18	25.17	12000	2500	49	ND<0.5	300	190	10000	SAL
MW-1A	02/28/95	36.35	9.08	27.27	10000	3200	25	ND<0.50	110	67	8400	SAL
MW-1A	05/10/95	36.35	8.33	28.02	10000	3600	31	ND<0.50	140	81	7200	SAL
MW-1A	08/02/95	36.63 (d)	9.49	27.14	10000	3800	24	18	130	80	---	SAL
MW-2A	02/24/94	36.61	9.52	27.09	6400	4500	31	ND<0.5	58	42	ND<5000	SAL
MW-2A	08/23/94	36.61	12.05	24.56	7500	7100	42	21	71	53	ND<5000	SAL
MW-2A	11/23/94	36.61	11.25	25.36	7000	1800	33	11	39	ND<0.5	7300	SAL
MW-2A	02/28/95	36.61	9.10	27.51	9000	1600	29	36	96	45	6900	SAL
MW-2A	05/10/95	36.61	8.42	28.19	5100	1600	20	27	32	35	3400	SAL
MW-2A	08/02/95	36.62 (d)	9.54	27.08	4300	1800	36	ND<0.50	11	16	---	SAL
MW-3A	02/24/94	36.92	9.65	27.07	19000	10000	52	30	690	290	ND<5000	SAL
MW-3A	08/23/94	36.92	12.33	24.59	14000	11000	44	24	1000	100	ND<5000	SAL
MW-3A	11/23/94	36.92	11.56	25.36	13000	2600	30	18	690	52	8500	SAL
MW-3A	02/28/95	36.92	9.35	27.57	8500	---	11	ND<0.50	340	24	5500	SAL
MW-3A	05/10/95	36.92	8.55	28.37	7600	3800	ND<0.50	ND<0.50	400	45	3900	SAL
MW-3A	08/02/95	36.93 (d)	9.75	27.18	9200	3800	17	13	340	34	---	SAL
MW-4A	08/02/95	37.18	9.63	27.55	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	SAL
MW-5A	08/02/95	35.91	8.74	27.17	1300	220	16	0.68	1.3	4.3	---	SAL
MW-6A	08/02/95	37.10	9.68	27.42	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	SAL
MW-7A	08/02/95	37.39	10.40	26.99	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	SAL
MW-1A dup (e)	02/24/94	36.35	---	---	11000	---	88	ND<0.5	230	190	---	SAL
MW-1A dup (e)	08/23/94	---	---	---	13000	---	58	38	310	230	---	SAL
MW-1A dup (e)	11/23/94	---	---	---	13000	---	29	15	710	58	---	SAL
MW-1A dup (e)	02/28/95	---	---	---	9500	---	33	ND<0.50	490	56	---	SAL
MW-1A dup (e)	05/10/95	---	---	---	10000	---	32	ND<0.50	130	75	---	SAL
MW-1A dup (e)	08/02/95	---	---	---	11000	---	21	20	120	61	---	SAL
QC-2 (f)	02/24/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
QC-2 (f)	08/23/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
QC-2 (f)	11/23/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
QC-2 (f)	02/28/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	SAL
QC-2 (f)	05/10/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	SAL
QC-2 (f)	08/02/95	---	---	---	ND<50	---	ND<0.50	0.76	ND<0.50	0.67	---	SAL

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
TOG	Total oil and grease
ug/l	Micrograms per liter
---	Not measured/analyzed/applicable
ND	Not detected above reported detection limit
CTL	Curtis Thompkins Laboratories
SAL	Sequoia Analytical Laboratory

NOTES:

(a) Top of casing elevations surveyed in reference to Unocal datum, MW-7A, elevation at 36 southeast corner at the intersection of East 14th Street and 150th Avenue.

(b) Groundwater elevations in feet above mean sea level.

(c) A search of 70000 compounds within the Wiley/NBS spectral data library also detected t propylbenzene at 240 ug/l, ethylcyclobutane at 98 ug/l, 2-methylpentane at 94 ug/l, 2-methylbutane at 88 ug/l, 2,3-dimethylpentane at 73 ug/l, 2-methylhexane at 58 ug/l, 3-methylhexane at 57 ug/l, and 2,5,6-trimethyloctane at 57 ug/l.

(d) Re-surveyed by PLS Surveys, Inc. on August 26, 1995.

(e) Blind duplicate; QC-1.

(f) Travel blank.

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
UNOCAL CORPORATION SERVICE STATION
15008 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

ALISTO PROJECT NO. 10-190

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-1	08/23/93	---	---	---	24000	160	110	840	810	---
MW-1	11/23/93	---	---	---	18000	210	63	900	620	---
MW-1	02/24/94	36.37	9.45	26.92	18000	74	30	940	480	---
MW-1	08/23/94	36.37	11.98	24.39	24000	130	57	970	320	SAL
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-2	08/23/93	---	---	---	15000	110	ND	590	64	---
MW-2	11/23/93	---	---	---	11000	80	10	480	20	---
MW-2	02/24/94	36.34	9.27	27.07	11000	44	ND	580	32	---
MW-2	08/23/94	36.34	11.82	24.52	12000	45	10	360	20	SAL
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-3	08/23/93	---	---	---	2900	25	ND	50	18	---
MW-3	11/23/93	---	---	---	2300	34	ND	24	5.6	---
MW-3	02/24/94	36.42	9.21	27.21	3400	46	ND	53	11	---
MW-3	08/23/94	36.42	11.88	24.54	2900	37	49	14	2.9	SAL
MW-3	11/23/94	36.42	10.98	25.44	---	---	---	---	---	---
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-4	08/23/93	---	---	---	1200	5	ND	16	ND	---
MW-4	11/23/93	---	---	---	720	10	ND	8.7	ND	---
MW-4	02/24/94	37.04	9.89	27.15	1300	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	SAL
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-5	08/23/93	---	---	---	61000	340	380	3600	14000	---
MW-5	11/23/93	---	---	---	46000	290	310	4100	15000	---
MW-5	02/24/94	35.94	9.02	26.92	57000	140	400	4400	16000	---
MW-5	08/23/94	35.94	11.57	24.37	61000	360	380	4800	17000	SAL
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	8.20	27.74	---	---	---	---	---	---
MW-5	08/02/95	35.94	9.23	26.71	---	---	---	---	---	---

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UNOCAL CORPORATION SERVICE STATION
15008 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

ALISTO PROJECT NO. 10-190

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-6	08/23/93	---	---	---	1000	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	SAL
MW-6	11/23/94	35.67	10.21	25.46	---	---	---	---	---	---
MW-6	02/03/95	35.67	6.99	28.68	---	---	---	---	---	---
MW-6	05/10/95	35.67	7.53	28.14	---	---	---	---	---	---
MW-6	08/02/95	35.67	8.68	26.99	---	---	---	---	---	---
MW-7	08/23/93	---	---	---	33000	360	ND	2500	4300	---
MW-7	11/23/93	---	---	---	19000	310	30	2500	2300	---
MW-7	02/24/94	36.09	8.95	27.14	16000	220	19	2400	3200	---
MW-7	08/23/94	36.09	11.43	24.66	19000	210	50	2000	2800	SAL
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-8	08/23/93	---	---	---	280	49	4.5	ND	ND	---
MW-8	11/23/93	---	---	---	1800	ND	3.4	ND	ND	---
MW-8	02/24/94	36.89	10.44	26.45	1200	10	2.3	ND	3.2	---
MW-8	08/23/94	36.89	12.61	24.28	3200	45	18	2	7.2	SAL
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-9	08/23/93	---	---	---	3000	29	ND	ND	ND	---
MW-9	11/23/93	---	---	---	2500	23	2.1	ND	ND	---
MW-9	02/24/94	36.29	9.74	26.55	2900	35	ND	ND	ND	---
MW-9	08/23/94	36.29	11.99	24.30	2800	28	32	ND	ND	SAL
MW-9	11/23/94	36.29	11.31	24.98	---	---	---	---	---	---
MW-9	02/03/95	36.29	8.45	27.84	---	---	---	---	---	---
MW-9	05/10/95	36.29	---	---	---	---	---	---	---	---
MW-9	08/02/95	36.29	7.95	26.54	---	---	---	---	---	---

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
UNOCAL CORPORATION SERVICE STATION
15008 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

ALISTO PROJECT NO. 10-190

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-10	08/23/93	—	—	—	20000	230	13	3200	140	---
MW-10	11/23/93	—	—	—	18000	300	10	2800	110	---
MW-10	02/24/94	36.04	9.57	26.47	15000	330	19	2000	83	---
MW-10	08/23/94	36.04	11.81	24.23	16000	250	41	1800	74	SAL
MW-10	11/23/94	36.04	11.10	24.94	---	---	---	—	—	---
MW-10	02/03/95	36.04	8.32	27.72	—	---	---	—	—	---
MW-10	05/10/95	36.04	—	—	---	—	---	---	---	---
MW-10	08/02/95	36.04	9.55	26.49	---	---	---	—	—	---
MW-11	08/23/93	—	—	—	5400	68	ND	230	43	---
MW-11	11/23/93	---	—	—	3400	105	ND	120	43	—
MW-11	02/24/94	35.50	9.20	26.30	4600	170	ND	140	36	---
MW-11	08/23/94	35.50	11.39	24.11	7300	250	13	150	42	SAL
MW-11	11/23/94	35.50	10.67	24.83	---	---	---	—	---	---
MW-11	02/03/95	35.50	8.02	27.48	---	---	---	—	---	---
MW-11	05/10/95	35.50	—	---	---	---	—	---	---	—
MW-11	08/02/95	35.50	9.31	26.19	---	---	---	—	---	---

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
ug/l	Micrograms per liter
---	Not analyzed/measured
ND	Not detected above reported detection limit
SAL	Sequoia Analytical Laboratory

NOTES:

(a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level, relative to benchmark (elevation = 36.88) at the northwest corner of East 14th Street and 150th Avenue.

(b) Groundwater elevations in feet above mean sea level.

E:\0\10-190\190-3-4B.WQ2

SOURCE:
USGS MAP, HAYWARD AND SAN LEANDRO QUADRANGLE,
7.5 MINUTE SERIES. 1959.
PHOTOREVISED 1980.

N

0 1000' 2000'

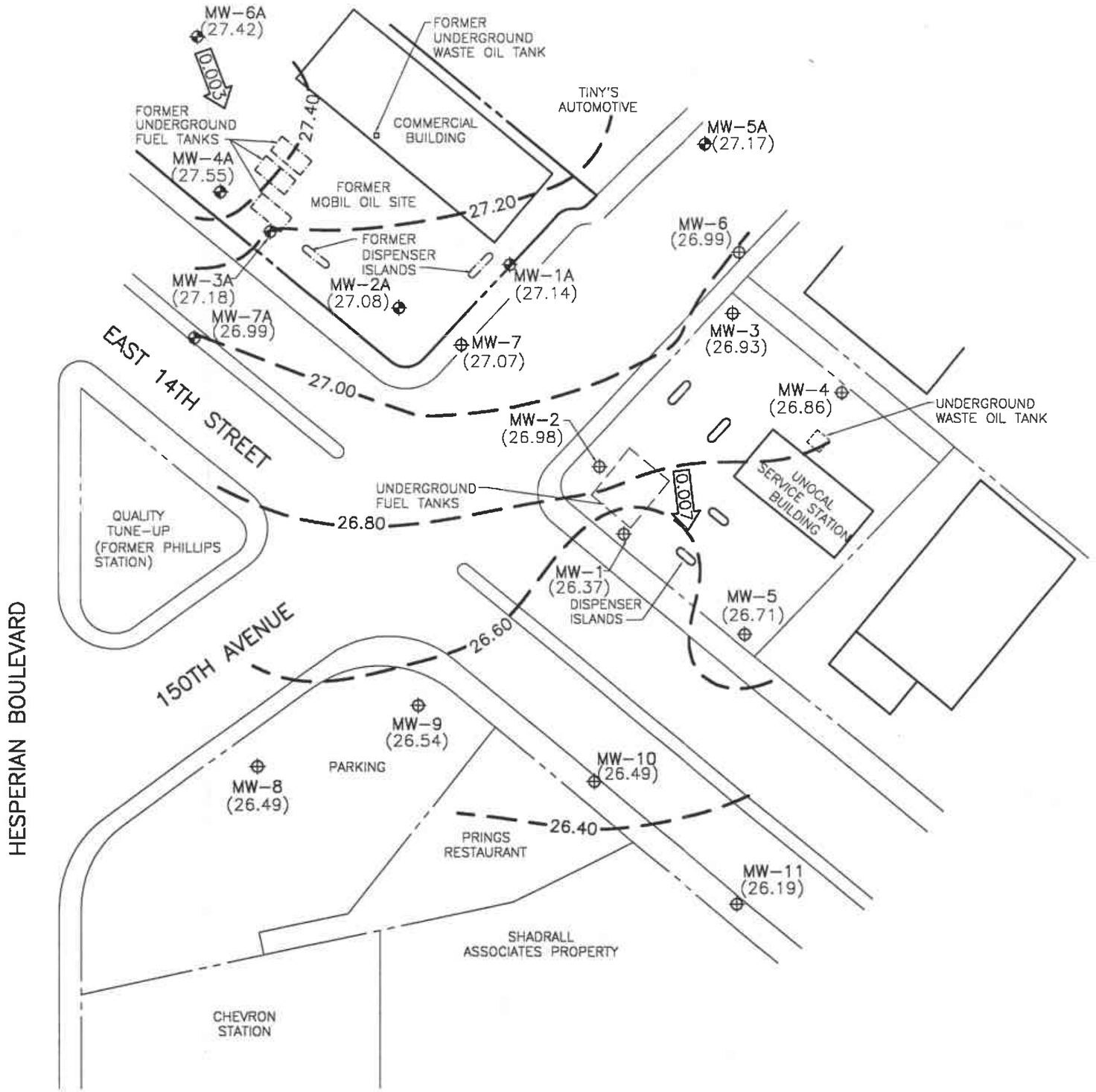
FIGURE 1

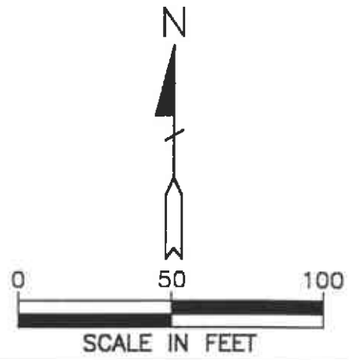
SITE VICINITY MAP

FORMER MOBIL OIL CORPORATION
STATION 04-FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

PROJECT NO. 10-190

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA





LEGEND

- ⊕ MOBIL GROUNDWATER MONITORING WELL
- ⊕ UNOCAL GROUNDWATER MONITORING WELL
- (27.42) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 27.40 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL–0.20 FOOT)
- 0.003 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2

POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

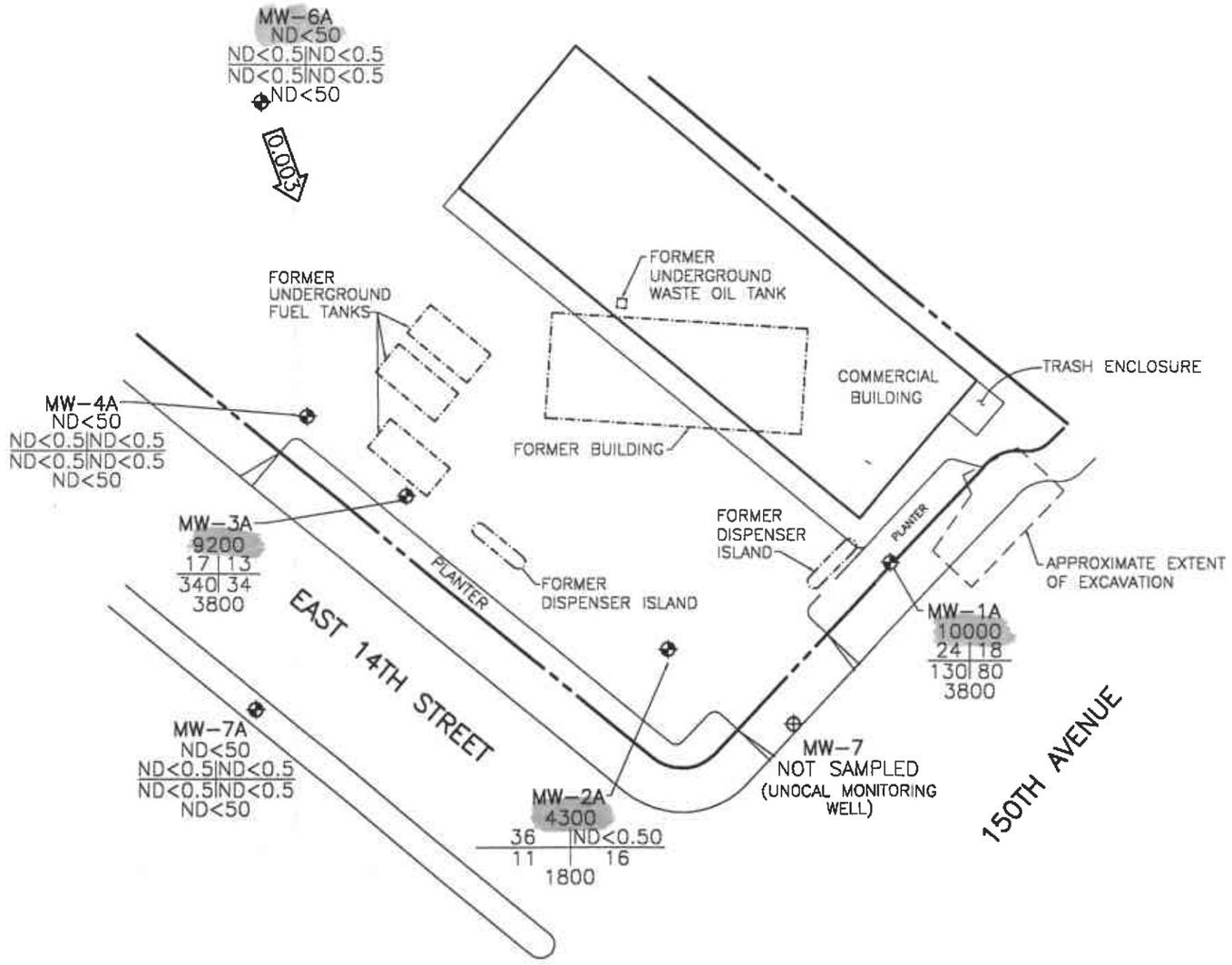
AUGUST 2, 1995

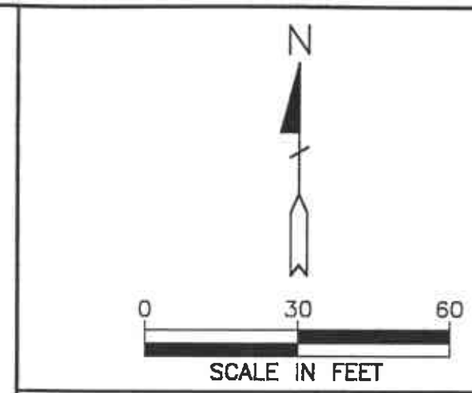
FORMER MOBIL OIL CORPORATION
STATION 04–FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

PROJECT NO. 10–190

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10190D40.DWG 10-3-95 MAP 1=50





LEGEND

⊕	GROUNDWATER MONITORING WELL
⊕	UNOCAL GROUNDWATER MONITORING WELL
TPH-G / B | T / E | X / TPH-D	CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER
TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ND	NOT DETECTED ABOVE REPORTED DETECTION LIMIT
0.003	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

AUGUST 2, 1995

FORMER MOBIL OIL CORPORATION
STATION 04-FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

PROJECT NO. 10-190

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10190E-07.DWG 10-11-95 MAP 1=30

APPENDIX A

FIELD PROCEDURES FOR GROUNDWATER MONITORING WELL SAMPLING AND WATER SAMPLING FIELD SURVEY FORMS

FIELD PROCEDURES
FOR
GROUNDWATER MONITORING WELL SAMPLING

Groundwater Level Measurement

Before commencing groundwater sampling, the groundwater level in each well was measured from the marked survey reference point at the top of the well casing. Groundwater in each well was monitored for free product or sheen. The depth to groundwater was measured to an accuracy of 0.01 foot from the top of the PVC well casing using an electronic sounder.

Groundwater Monitoring Well Sampling

To ensure that the groundwater samples were representative of the aquifer, the wells were purged of 3 well casing volumes before sample collection. This purging was accomplished using a clean bailer or pump.

The samples were collected using a disposable bailer and then transferred into laboratory-supplied containers. Care was taken to avoid turbulence when transferring the samples, and all volatile analysis vials were filled so that no air bubbles were trapped. The sampling technician wore nitrile gloves at all times during purging and well sampling. The samples were labeled with the well number, site identification, date and time of sample collection, and sampler's initials, and transported in an iced cooler maintained at 4 degrees Centigrade to a state-certified laboratory following preservation and chain of custody protocol.

ALISTO

ENGINEERING GROUP
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

Field Report / Sampling Data Sheet

⊗ Groundwater Sampling

Date: 8/2/95 Project No. 10-190-02-006
Day: Wed Station No. GFGN
Weather: Sunny Address 14994 E. 14th St, San Leandro CA
SAMPLER: DX

Well ID	SAMPLE#	WATER	DEPTH	Well ID	SAMPLE #	WATER	DEPTH	Well ID	SAMPLE	WATER DEPTH
MW-6A	—	9.68	0710	MW-3A	—	9.75	0926			
MW-7A	—	10.40	0714	MW-1A	—	9.49	0930			
MW-5A	—	8.74	0720							
MW-4A	—	9.63	0722							
MW-2A	—	9.54	0724							

FIELD INSTRUMENT CALIBRATION DATA

PH METER ~~1hr~~ 4.00 ✓ 7.00 ✓ 10.00 ____ TEMPERATURE COMPENSATED (Y) N TIME 0745
D.O. METER ____ BAROMETRIC PRESSURE ____ TEMP 71°F ZERO d.O. SOLUTION ____
CONDUCTIVITY METER ~~1hr~~ 10,000 ✓ TURBIDITY METER ____ 5.0 NTU ____ OTHER ____

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-6A	9.68"	4"	refused	Φ	Φ	70	0836	67.7	6.96	0.63	
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge=	PurgeVol.			80	0843	66.8	7.39	0.54	
24.00 - 9.68 = 14.32 x .65 = 9.30 x 10 = 93.00						90	0847	66.7	7.28	0.52	
Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Baller(s) 3 OSys Port						95	0850	66.7	7.29	0.52	

Comments: development well

O EPA 601 ____
⊗ TPH-G/BTEX ~~1hr~~
⊗ TPH Diesel ~~1hr~~
O TOG 5520 ____
Time Sampled: 0900

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-7A	10.40	4"	refused	Φ	Φ	70	1019	71.2	7.99	0.84	
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge=	PurgeVol.			80	1030	69.9	7.95	0.82	
24.50 - 10.40 = 14.10 x .65 = 9.17 x 10 = 92.00						90	1036	69.9	7.75	0.72	
Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Baller(s) 3 OSys Port						92	1040	69.8	7.74	0.72	

Comments: development well

⊗ EPA 601 ~~1hr~~
⊗ TPH-G/BTEX ~~1hr~~
⊗ TPH Diesel ~~1hr~~
O TOG 5520 ____
Time Sampled: 1050

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-5A	8.74	4"	refused	Φ	Φ	70	1210	72.7	7.82	0.87	
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge=	PurgeVol.			80	1220	69.9	7.77	0.85	
23.00 - 8.74 = 14.26 x .65 = 9.27 x 10 = 93						90	1231	69.7	7.76	0.84	
Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Baller(s) 3 OSys Port						93	1237	69.6	7.76	0.84	

Comments: development well

O EPA 601 ____
O TPH-G/BTEX ____
O TPH Diesel ____
O TOG 5520 ____
Time Sampled: 1234

ALISTO

ENGINEERING GROUP

1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

Field Report / Sampling Data Sheet

⊗ Groundwater Sampling

Date: 8/2/95 Project No. 10-190-02-006
Day: Wed Station No. 04-F6N
Weather: Sunny Address 14994 E. 14th St, San Leandro CA
SAMPLER: JDC

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness
MW-4A	9.63	4"	Vented	Φ	Φ

Total Depth - Water Level= 23.50 - 9.63 = 13.87 x Well Vol. Factor= x .65 = 9.01 x # vol. to Purge= x 10 = PurgeVol. 90

Gal.	Time	Temp °F	pH	E.C.	D.O.
70	1411	74.1	7.93	1.01	
80	1420	72.5	7.91	1.05	
90	1430	72.5	7.95	1.07	

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 3 OSys Port
Comments: development well

○ EPA 601 ___
⊗ TPH-G/BTEX btex
⊗ TPH Diesel tph
○ TOG 5520 ___
Time Sampled: 1440

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness
MW-2A	9.54	2"	OL	Φ	Φ

Total Depth - Water Level= 24.50 - 9.54 = 14.96 x Well Vol. Factor= x .16 = 2.39 x 3 = PurgeVol. 7.18

Gal.	Time	Temp °F	pH	E.C.	D.O.
2.5	73.0	1449	7.36	1.32	
5	71.3	1453	7.33	1.35	
7.25	1457	71.6	7.30	1.36	

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port
Comments: odor to purge H2O

⊗ EPA 601 btex
⊗ TPH-G/BTEX btex
⊗ TPH Diesel tph
○ TOG 5520 ___
Time Sampled: 1500

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness
MW-3A	9.75	2"	OL	Φ	Φ

Total Depth - Water Level= 22.45 - 9.75 = 12.7 x Well Vol. Factor= x .16 = 2.03 x 3 = PurgeVol. 6.10

Gal.	Time	Temp °F	pH	E.C.	D.O.
2	1509	73.7	7.41	1.80	
4	1514	73.6	7.36	1.60	
6.25	1520	72.9	7.32	1.55	

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port
Comments: Slight odor to purgewater

⊗ EPA 601 btex
⊗ TPH-G/BTEX btex
⊗ TPH Diesel tph
○ TOG 5520 ___
Time Sampled: 1525

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness
MW-1A	9.49	2"	OL	Φ	Φ

Total Depth - Water Level= 18.60 - 9.49 = 9.11 x Well Vol. Factor= x .16 = 1.45 x 3 = PurgeVol. 4.37

Gal.	Time	Temp °F	pH	E.C.	D.O.
2	1536	72.9	7.53	1.41	
4	1540	72.1	7.49	1.39	
4.5	1542	71.8	7.46	1.37	

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port
Comments: QC - from this well ; globules on Purge H2O

⊗ EPA 601 btex
⊗ TPH-G/BTEX btex
⊗ TPH Diesel tph
○ TOG 5520 ___
Time Sampled: 1545

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness

Total Depth - Water Level= x Well Vol. Factor= x # vol. to Purge= PurgeVol.

Gal.	Time	Temp °F	pH	E.C.	D.O.

Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s) ___ OSys Port
Comments:

○ EPA 601 ___
○ TPH-G/BTEX ___
○ TPH Diesel ___
○ TOG 5520 ___
Time Sampled:

3292-08

MPDS-UN
Page 1

SAN LEANDRO – 15008 E. 14TH Street.

TABLE 1

SUMMARY OF MONITORING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet) ◆	Total Well Depth (feet) ◆	Product Thickness (feet)	Sheen	Water Purged (gallons)
	(Monitored and sampled on August 2, 1995)					
MW1	26.37	10.00	18.95	0	NO	7
MW2	27.01	9.36	19.10	0	NO	7
MW3	26.93	9.49	22.15	0	NO	9
MW4	26.86	10.18	19.64	0	NO	7
MW5	26.71	9.23	22.13	0	NO	9
MW6	26.99	8.68	20.15	0	NO	8
MW7	27.07	9.02	21.21	0	NO	8.5
MW8	26.49	10.40	19.09	0	NO	6
MW9	26.54	9.75	19.10	0	NO	7
MW10	26.49	9.55	19.88	0	NO	7.5
MW11	26.19	9.31	19.00	0	NO	7

APPENDIX B

FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION, LABORATORY REPORT, AND CHAIN OF CUSTODY RECORD

FIELD PROCEDURES
FOR
CHAIN OF CUSTODY DOCUMENTATION

The samples collected were handled in accordance with the California Department of Health Services guidelines. The samples were labeled in the field and immediately stored in coolers and preserved with blue ice for transport to a state-certified laboratory for analysis.

A chain of custody record accompanied the samples, and included the site and sample identification, date and time of collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

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

10-190-

Alisto Engineering Group	Client Project ID:	Mobil #04-FGN	Sampled: Aug 2, 1995
1575 Treat Blvd., Ste. 201	Sample Matrix:	Water	Received: Aug 4, 1995
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 11, 1995
Attention: Ken Simas	First Sample #:	508-0313	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 508-0313 MW-6 A	Sample I.D. 508-0314 MW-7A	Sample I.D. 508-0315 MW-5 A	Sample I.D. 508-0316 MW-4 A	Sample I.D. 508-0317 MW-2 A	Sample I.D. 508-0318 MW-3 A
QC Batch Number:		GC080995 802002A	GC080995 802002A	GC080995 802002A	GC080995 802002A	GC080995 802002A	GC080995 802005A
Purgeable Hydrocarbons	50	N.D.	N.D.	1,300	N.D.	4,300	9,200
Benzene	0.50	N.D.	N.D.	16	N.D.	36	17
Toluene	0.50	N.D.	N.D.	0.68	N.D.	N.D.	13
Ethyl Benzene	0.50	N.D.	N.D.	1.3	N.D.	11	340
Total Xylenes	0.50	N.D.	N.D.	4.3	N.D.	16	34
Chromatogram Pattern:		--	--	Gasoline	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	2.0	1.0	10	20
Date Analyzed:	8/9/95	8/9/95	8/9/95	8/9/95	8/9/95	8/9/95
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	110	98	128	107	136	72

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

RECEIVED AUG 1 3 1995

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

5080313.ALS <1>

Sequoia Analytical

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Alisto Engineering Group	Client Project ID:	Mobil #04-FGN	Sampled: Aug 2, 1995
1575 Treat Blvd., Ste. 201	Sample Matrix:	Water	Received: Aug 4, 1995
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Aug 11, 1995
Attention: Ken Simas	First Sample #:	508-0319	

QC Batch Number: GC080995 802005A | GC080995 802005A | GC080995 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 508-0319 MW-1A	Sample I.D. 508-0320 QC-1	Sample I.D. 508-0321 QC-2
Purgeable Hydrocarbons	50	10,000	11,000	N.D.
Benzene	0.50	24	21	N.D.
Toluene	0.50	18	20	0.76
Ethyl Benzene	0.50	130	120	N.D.
Total Xylenes	0.50	80	61	0.67
Chromatogram Pattern:		Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	20	20	1.0
Date Analyzed:	8/9/95	8/9/95	8/9/95
Instrument Identification:	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	79	78	95

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

for Kevin Van Slambrook
Project Manager

5080313.ALS <2>

Sequoia Analytical

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

Alisto Engineering Group	Client Project ID:	Mobil #04-FGN	Sampled: Aug 2, 1995
1575 Treat Blvd., Ste. 201	Sample Matrix:	Water	Received: Aug 4, 1995
Walnut Creek, CA 94598	Analysis Method:	EPA 3510/8015 Mod.	Reported: Aug 11, 1995
Attention: Ken Simas	First Sample #:	508-0313	

QC Batch Number:	SP080795 8015EXB	SP080795 8015EXB	SP080795 8015EXB	SP080795 8015EXB	SP080895 8015EXA	SP080895 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 508-0313 MW-6A	Sample I.D. 508-0314 MW-7A	Sample I.D. 508-0315 MW-5A	Sample I.D. 508-0316 MW-4A	Sample I.D. 508-0317 MW-2A	Sample I.D. 508-0318 MW-3A
Extractable Hydrocarbons	50	N.D.	N.D.	220	N.D.	1800	3800
Chromatogram Pattern:		--	--	Unidentified Hydrocarbons <C15	--	Unidentified Hydrocarbons <C15	Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	8/7/95	8/7/95	8/7/95	8/7/95	8/8/95	8/8/95
Date Analyzed:	8/8/95	8/8/95	8/8/95	8/8/95	8/9/95	8/9/95
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	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

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Alisto Engineering Group	Client Project ID:	Mobil #04-FGN	Sampled:	Aug 2, 1995
1575 Treat Blvd., Ste. 201	Sample Matrix:	Water	Received:	Aug 4, 1995
Walnut Creek, CA 94598	Analysis Method:	EPA 3510/8015 Mod.	Reported:	Aug 11, 1995
Attention: Ken Simas	First Sample #:	508-0319		

QC Batch Number: SP080895

8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 508-0319 MW-8
Extractable Hydrocarbons	50	3800
Chromatogram Pattern:		Unidentifed Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	8/8/95
Date Analyzed:	8/9/95
Instrument Identification:	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

Kevin Van Slambrook
Project Manager

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #04-FGN
Matrix: Liquid
QC Sample Group: 5080313-21
Reported: Aug 11, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC080995	GC080995	GC080995	GC080995	SP080795
Analy. Method:	802002A EPA 8020	802002A EPA 8020	802002A EPA 8020	802002A EPA 8020	8015EXB EPA 8015
Prep. Method:	-	-	-	-	EPA 3510
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	J. Dinsay
MS/MSD #:	5080313	5080313	5080313	5080313	BLK080795
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/7/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/8/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	GCHP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	19	21	24	72	330
MS % Recovery:	95	105	120	120	110
Dup. Result:	19	21	23	70	330
MSD % Recov.:	95	105	115	117	110
RPD:	0.0	0.0	4.3	2.8	0-0
RPD Limit:	0-20	0-20	0-20	0-20	0-20

LCS #:	1LCS080495	1LCS080495	1LCS080495	1LCS080495	BLK080795
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/7/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/8/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	GCHP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	19	21	24	70	330
LCS % Recov.:	94	105	119	116	110

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	38-122

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
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, IS = Instrument Spike, ISD = IS Duplicate, RPD = Relative % Difference

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #04-FGN
Matrix: Liquid
QC Sample Group: 5080313-21

Reported: Aug 11, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC080995	GC080995	GC080995	GC080995	SP080895
	802005A	802005A	802005A	802005A	8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Prep. Method:	-	-	-	-	EPA 3510
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	J. Dinsay
MS/MSD #:	5080236	5080236	5080236	5080236	BLK080895
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/8/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/9/95
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:	15	17	18	57	210
MS % Recovery:	75	85	90	95	70
Dup. Result:	17	19	20	62	200
MSD % Recov.:	85	95	100	103	67
RPD:	13	11	11	8.4	4.9
RPD Limit:	0-20	0-20	0-20	0-20	0-20

LCS #:	3LCS080995	3LCS080995	3LCS080995	3LCS080995	BLK080895
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/8/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95	8/9/95
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:	16	18	18	57	210
LCS % Recov.:	80	88	92	96	70

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	38-122

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
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, IS = Instrument Spike, ISD = IS 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: Alisto Engineering	Station No./Site Address: 04-FGN/14994 E 14th Ave San Leandro
Address: 1575 Treat Blvd	Project Contact: [illegible] Sinas / Project # 10-150-02-006
City: Walnut Creek State: CA Zip: 94598	Mobil Oil Engineer: [illegible]
Tel: (510) 295 1650 Fax: (510) 295 1823	Sampler(s) (signature): [illegible]

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		
MW-6A	H2O	8/7/95	0900	HCl	3	VOA		X	X													
MW-7A	↓	↓	1050	↓	↓	↓		↓	↓													
MW-5A	↓	↓	1256	↓	↓	↓		↓	↓													
MW-4A	↓	↓	1410	↓	↓	↓		↓	↓													
MW-2A	↓	↓	1500	↓	↓	↓		↓	↓													
MW-3A	↓	↓	1525	↓	↓	↓		↓	↓													
MW-1A	↓	↓	1545	↓	↓	↓		↓	↓													
QC-1	↓	↓	—	↓	2	VOA		↓														
QC-2	↓	↓	—	↓	2	↓		↓														

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: [signature] Alisto Date/Time: 8-4-95 4:00	Relinquished by: [signature] Date/Time: 8-4-95 4:00
Relinquished by: Date/Time:	Relinquished by: Date/Time:
Relinquished by: Date/Time:	Relinquished in Lab by: Date/Time:
Remarks:	

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

Sample Integrity: Intact ____ On Ice ____