KAPREALIAN ENGINEERING
INCORPORATED

92 AUG 21 AM 10:10

August 19, 1992

Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

S Hago

Attention: Mr. Gil Wistar

RE: Unocal Service Station #3538
411 W. MacArthur Blvd.
Oakland, California

609

Dear Mr. Wistar:

Per the request of Mr. Tim Howard of Unocal Corporation, enclosed please find our report dated August 12, 1992, for the above referenced site.

If you should have any questions, please feel free to call our office at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Judy A. Dewey

jad\82

Enclosure

cc: Tim Howard, Unocal Corporation

2401 Stanwell Drive, Suite 400
Concord, California 94520
Tel: 510.602.5100 Fax: 510.687.0602

KAPREALIAN ENGINEERING
INCORPORATED

KEI-P89-0703.QR11
August 12, 1992

Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, California 94583

Attention: Mr. Tim Howard

RE: Quarterly Report
Unocal Service Station #3538
411 W. MacArthur Boulevard
Oakland, California

Dear Mr. Howard:

This report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by Kaprealian Engineering, Inc. (KEI), per KEI's proposal KEI-P89-0703.P3 dated February 28, 1991, and as modified in KEI's quarterly report KEI-P89-0703.QR7 dated August 20, 1991. The wells are currently monitored monthly, and wells MW2 and MW3 are sampled on a quarterly basis. Wells MW1 and MW4 are sampled on an annual basis. This report covers the work performed by KEI from May through July of 1992.

BACKGROUND

The subject site contains a service station facility. Two underground fuel storage tanks, one waste oil tank, and the product piping were removed from the site in July of 1989, during tank replacement activities. The fuel tank pit was subsequently overexcavated four feet laterally to the ground water depth (10.5 feet below grade) in order to remove contaminated soil. Four monitoring wells have been installed at the site.

A site description, detailed background information including a summary of all of the soil and ground water subsurface investigation/remediation work conducted to date, site hydrogeologic conditions, and tables that summarize all of the soil and ground water sample analytical results are presented in KEI's quarterly report (KEI-P89-0703.QR10) dated May 15, 1992.

RECENT FIELD ACTIVITIES

The four existing wells (MW1 through MW4) were monitored three times and were sampled once during the quarter. During monitoring, the wells were checked for depth to water and the presence of free product. Prior to sampling, the wells were also checked for the

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presence of a sheen. No free product or sheen was noted in any of the wells during the quarter. The monitoring data collected this quarter are summarized in Table 1.

Water samples were collected from the wells on July 14, 1992. Prior to sampling, the wells were each purged of between 5 and 7.5 gallons of water by the use of a surface pump. Water samples were then collected by the use of a clean Teflon bailer. The samples were decanted into clean VOA vials that were then sealed with Teflon-lined screw caps and stored in a cooler, on ice, until delivery to the state-certified laboratory.

HYDROLOGY

The measured depth to ground water at the site on July 14, 1992, ranged between 18.37 and 18.63 feet below grade. The water levels in all of the wells have shown net decreases ranging from 0.48 to 0.75 feet since April 14, 1992. Based on the water level data gathered on July 14, 1992, the ground water flow direction appeared to be to the east, as shown on the attached Potentiometric Surface Map, Figure 1. The flow direction reported this quarter is relatively unchanged from the easterly flow direction reported in the previous quarters. The average hydraulic gradient across the site on July 14, 1992, was approximately 0.008.

ANALYTICAL RESULTS

The ground water samples were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, and benzene, toluene, xylenes, and ethylbenzene (BTX&E) by EPA method 8020. In addition, the ground water sample collected from monitoring well MW1 was analyzed for EPA method 8010 constituents.

The ground water sample analytical results are summarized in Table 2. The concentrations of TPH as gasoline and benzene detected in the ground water samples collected this quarter are shown on the attached Figure 2. Copies of the laboratory analytical results and Chain of Custody documentation are attached to this report.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results for the ground water samples collected and evaluated to date, and since a consistent easterly ground water flow direction has been established at the site, KEI recommends a modification to the current monitoring and sampling

program of the existing wells. KEI recommends that the frequency of monitoring of all of the wells be reduced from monthly to quarterly. Wells MW2 and MW3 will continue to be sampled on a quarterly basis, and wells MW1 and MW4 will continue to be sampled on an annual basis. Recommendations for further modifications or termination of the revised monitoring and sampling program will be made as warranted.

KEI previously proposed the installation of two off-site monitoring wells (MW5 and MW6, as shown on the attached Figure 3), in order to further define the extent of the ground water contamination. KEI understands that Unocal encountered delays in obtaining satisfactory access agreements for these proposed locations. Therefore, the proposed locations for wells MW5 and MW6 have been relocated to the sidewalks, as shown on the attached Figure 3. KEI is currently in the process of obtaining the necessary encroachment permits, and will proceed with the well installations as soon as the permits are obtained.

DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services Agency, and to the Regional Water Quality Control Board, San Francisco Bay Region.

LIMITATIONS

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants.

Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed these data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

If you have any questions regarding this report, please do not hesitate to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Thomas J. Berkins
Senior Environmental Engineer

Joel G. Greger, C.E.G.
Senior Engineering Geologist

License No. 1633
Exp. Date 6/30/94

Timothy R. Ross
Project Manager

/bp

Attachments: Tables 1 & 2
Location Map
Site Vicinity Map
Potentiometric Surface Map - Figure 1
Concentrations of Petroleum Hydrocarbons - Figure 2
Locations of Proposed Monitoring Wells - Figure 3
Laboratory Analyses
Chain of Custody documentation

KEI-P89-0703.QR11
August 12, 1992

TABLE 1

SUMMARY OF MONITORING DATA

Well No.	Ground Water Elevation (feet)	Depth to Water (feet)	Product Thickness (feet)	Sheen	Water Purged (gallons)
(Monitored and Sampled on July 14, 1992)					
MW1	82.19	18.63	0	No	6.5
MW2	81.56	18.44	0	No	6
MW3	81.81	18.60	0	No	5
MW4	81.98	18.37	0	No	7.5
(Monitored on June 9, 1992)					
MW1	82.24	18.58	0	--	0
MW2	81.18	18.82	0	--	0
MW3	81.46	18.95	0	--	0
MW4	81.73	18.62	0	--	0
(Monitored on May 12, 1992)					
MW1	82.42	18.40	0	--	0
MW2	81.70	18.30	0	--	0
MW3	81.97	18.44	0	--	0
MW4	82.15	18.20	0	--	0

Well No.	Well Cover Elevation (feet)*
MW1	100.82
MW2	100.00
MW3	100.41
MW4	100.35

-- Sheen determination was not performed.

* The elevations of the tops of the well covers have been surveyed relative to an assumed datum of 100.00 feet at the of top of the MW2 well cover.

KEI-P89-0703.QR11
August 12, 1992

TABLE 2

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethyl-benzene	PCE
7/14/92	MW1+	--	ND	ND	ND	ND	ND	1.4
	MW2	--	130	3.7	ND	ND	ND	--
	MW3	--	21,000	890	200	4,300	1,200	--
	MW4	--	ND	1.3	2.5	1.0	ND	--
4/14/92	MW2	--	150	6.2	ND	1.4	ND	--
	MW3	--	14,000	660	48	2,000	560	--
1/15/92	MW2	--	220	37	0.52	7.0	1.1	--
	MW3	--	3,000	590	14	750	310	--
10/15/91	MW2	--	140	44	0.56	12	1.5	--
	MW3	--	3,100	390	34	390	150	--
7/15/91	MW1*	ND	ND	ND	ND	ND	ND	1.8
	MW2	--	2,200	770	12	370	72	--
	MW3	--	9,200	1,300	230	1,900	490	--
	MW4	--	ND	ND	ND	ND	ND	--
4/12/91	MW1*	ND	ND	ND	ND	ND	ND	2.0
	MW2	--	2,200	160	4.3	62	23	--
	MW3	--	880	170	1.1	110	34	--
	MW4	--	ND	ND	ND	ND	ND	--
1/15/91	MW1*	ND	ND	ND	ND	ND	ND	2.1
	MW2	--	680	170	0.7	81	19	--
	MW3	--	3,200	460	1.5	270	120	--
	MW4	--	ND	ND	ND	ND	ND	--
10/16/90	MW1*	ND	ND	ND	ND	ND	ND	2.0
	MW2	--	1,400	430	2.0	240	48	--
	MW3	--	740	210	1.4	82	2.5	--
	MW4	--	ND	ND	ND	ND	ND	--
7/17/90	MW1*	ND	ND	ND	ND	ND	ND	1.7
	MW2	--	490	76	0.59	46	11	--
	MW3	--	4,000	270	48	250	130	--
	MW4	--	ND	ND	ND	ND	ND	--

KEI-P89-0703.QR11
August 12, 1992

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethyl-benzene	PCE
4/19/90	MW1*	ND	ND	ND	ND	ND	ND	2.2
	MW2	--	3,900	550	5.1	390	91	--
	MW3	--	3,100	600	27	220	54	--
	MW4	--	ND	ND	0.48	ND	ND	--
1/23/90	MW1**	ND	ND	1.5	2.3	4.3	ND	2.1
	MW2	--	400	73	36	40	10	--
	MW3	--	450	110	1.2	11	4.4	--
	MW4	--	ND	ND	0.40	ND	ND	--
9/15/89	MW1***	ND	ND	ND	0.61	ND	ND	2.7
	MW2	--	290	ND	12	ND	ND	--
	MW3	--	32	ND	ND	ND	ND	--
	MW4	--	ND	ND	ND	ND	ND	--

-- Indicates analysis was not performed.

+ All EPA method 8010 compounds were non-detectable, except for PCE.

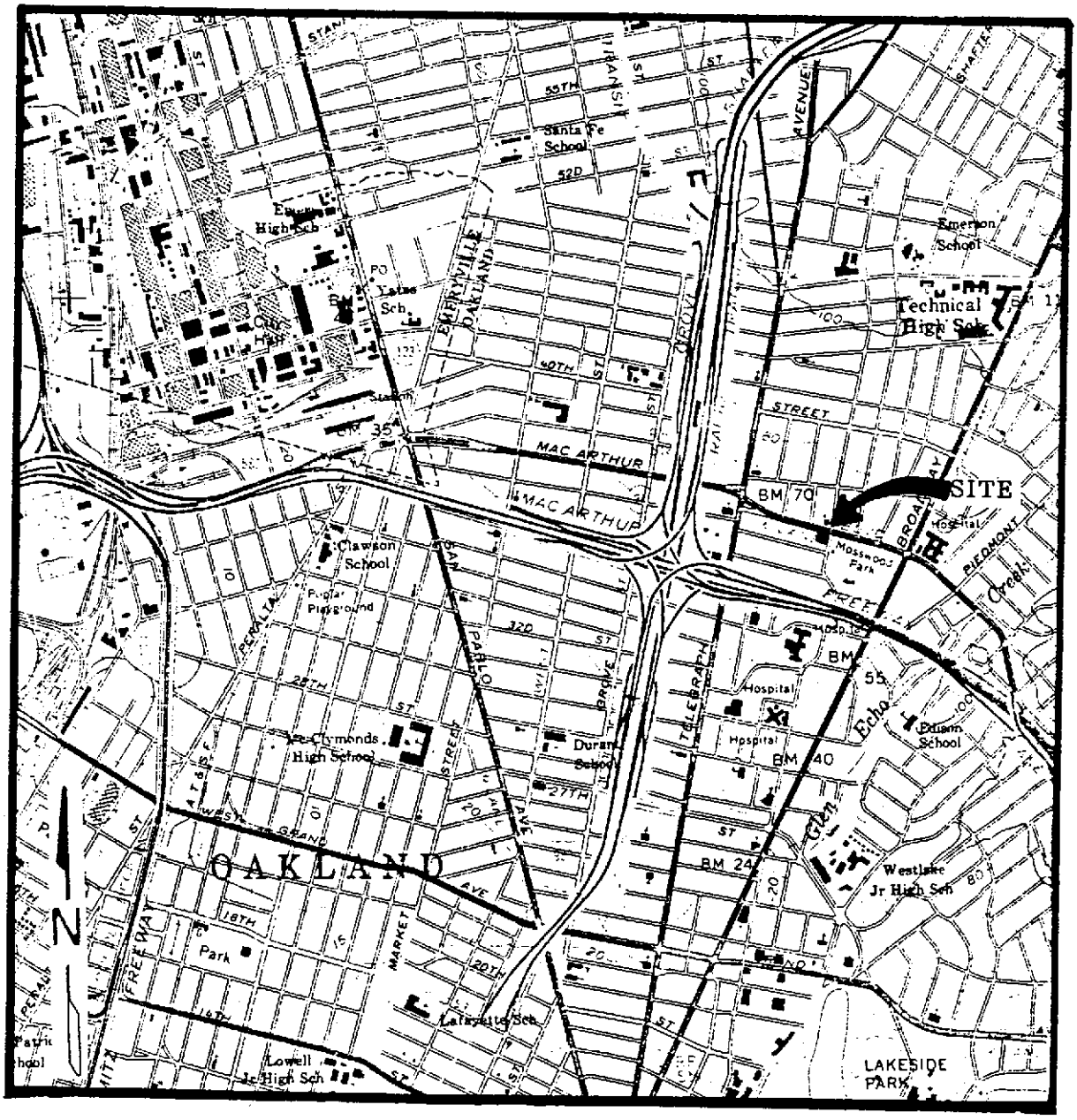
* TOG was non-detectable. All EPA method 8010 compounds were non-detectable, except for PCE.

** TOG was 1.5 ppm. All EPA method 8010 compounds were non-detectable, except for PCE.

*** TOG was <50 ppm. All EPA method 8010 compounds were non-detectable, except for PCE.

ND = Non-detectable.

Results in parts per billion (ppb), unless otherwise indicated.

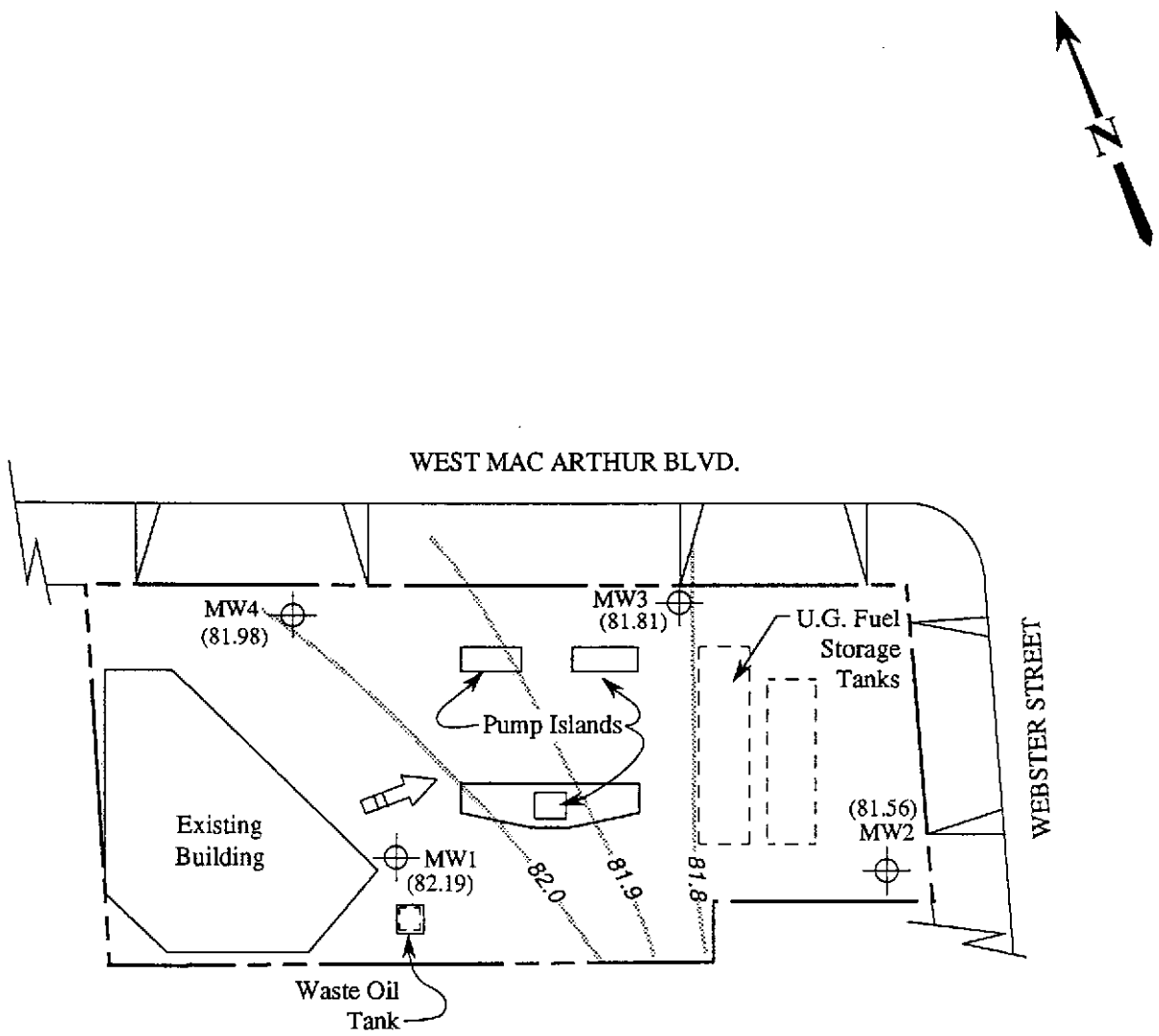


Base modified from 7.5 minute U.S.G.S. Oakland West Quadrangle
(photorevised 1980)

0 2000 4000

Approx. scale feet

KAPREALIAN ENGINEERING INCORPORATED	**UNOCAL SERVICE STATION # 3538** **411 W. MACARTHUR BOULEVARD** **OAKLAND, CA**	**LOCATION MAP**



LEGEND

- Monitoring well
- ( ) Ground water elevation in feet
  Top of MW2 well cover assumed 100.00 feet as datum.
- Direction of ground water flow
- Contours of ground water elevation

0 30 60

Approx. scale feet

POTENTIOMETRIC SURFACE MAP FOR THE JULY 14, 1992 MONITORING EVENT

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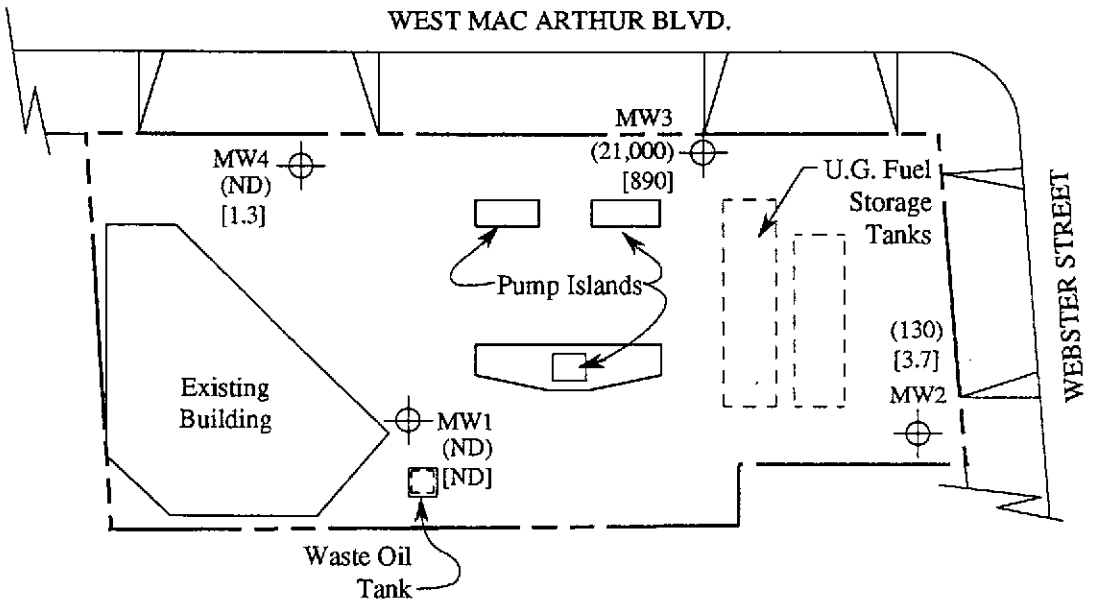
INCORPORATED

UNOCAL SERVICE STATION # 3538
411 W. MACARTHUR BOULEVARD
OAKLAND, CA

FIGURE
1



LEGEND

⊕ Monitoring well

( ) Concentration of TPH as gasoline in ppb

[ ] Concentration of benzene in ppb

ND = Non-detectable

0 30 60

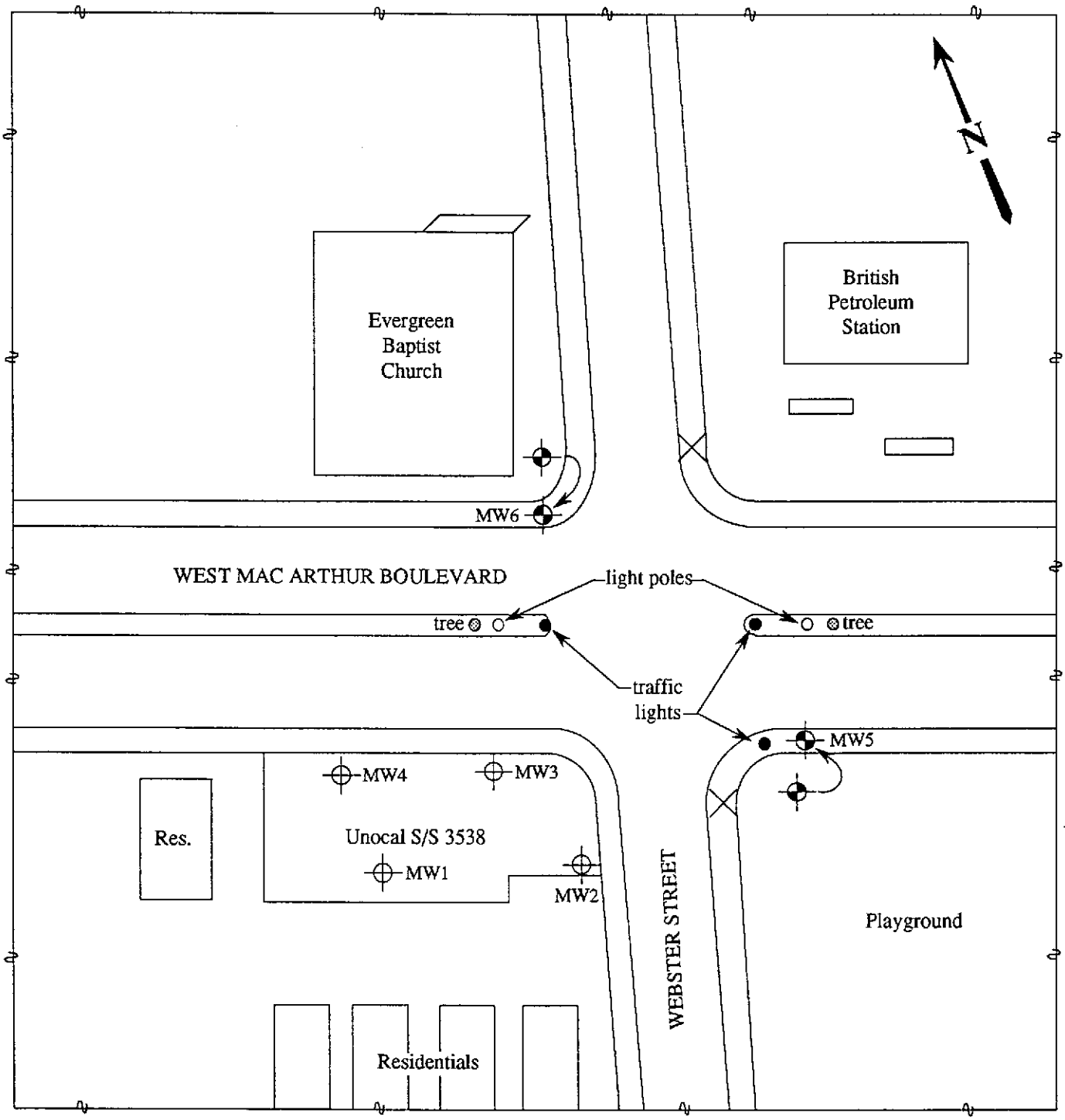
Approx. scale feet

PETROLEUM HYDROCARBON CONCENTATIONS IN GROUND WATER ON JULY 14, 1992

KAPREALIAN ENGINEERING
INCORPORATED

UNOCAL SERVICE STATION # 3538
411 W. MACARTHUR BOULEVARD
OAKLAND, CA

FIGURE
2



LEGEND

- Monitoring well (existing)
- Monitoring well (original proposed location)
- Monitoring well (proposed relocation)
- Utility pole and overhead lines

0 60 120

Approx. scale feet

LOCATIONS OF PROPOSED OFF-SITE MONITORING WELLS

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INCORPORATED

UNOCAL SERVICE STATION # 3538
411 W. MACARTHUR BOULEVARD
OAKLAND, CA

FIGURE
3

SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 411 W. MacArthur Blvd., Oakland	Sampled:	Jul 14, 1992
2401 Stanwell Drive, Suite 400	Matrix Descript:	Water	Received:	Jul 14, 1992
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Analyzed:	Jul 16, 1992
Attention: Mardo Kaprealian, P.E.	First Sample #:	207-0436	Reported:	Jul 24, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons µg/L (ppb)	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes µg/L (ppb)
207-0436	MW - 1	N.D.	N.D.	N.D.	N.D.	N.D.
207-0437	MW - 2	130	3.7	N.D.	N.D.	N.D.
207-0438	MW - 3	21,000	890	200	1,200	4,300
207-0439	MW - 4	N.D.	1.3	2.5	N.D.	1.0
Method Detection Limits:		**50**	**0.50**	**0.50**	**0.50**	**0.50**

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 411 W. MacArthur Blvd., Oakland	Sampled:	Jul 14, 1992
2401 Stanwell Drive, Suite 400	Sample Descript:	Water, MW-1	Received:	Jul 14, 1992
Concord, CA 94520	Analysis Method:	EPA 5030/8010	Analyzed:	Jul 21, 1992
Attention: Mardo Kaprealian, P.E.	Lab Number:	207-0436	Reported:	Jul 24, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	0.50	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	0.50	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	0.50	N.D.
Dibromochloromethane	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**1.4**
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	0.50	N.D.

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

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, CA 94520
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, 411 W. MacArthur Blvd., Oakland
QC Sample Group: 2070436-439
Reported: Jul 24, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020
Analyst:	A.P.	A.P.	A.P.	A.P.
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Jul 16, 1992	Jul 16, 1992	Jul 16, 1992	Jul 16, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	20	20	20	60
Conc. Matrix Spike:	20	20	20	64
Matrix Spike % Recovery:	100	100	100	107
Conc. Matrix Spike Dup.:	20	20	20	63
Matrix Spike Duplicate % Recovery:	100	100	100	105
Relative % Difference:	0.0	0.0	0.0	1.6

Laboratory Blank contained the following analytes: None detected.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

2070436.KEI <3>

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Kapreallan Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, CA 94520
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, 411 W. MacArthur Blvd., Oakland
QC Sample Group: 2070436-439
Reported: Jul 24, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloroethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	K. Nill	K. Nill	K. Nill
Reporting Units:	µg/L	µg/L	µg/L
Date Analyzed:	Jul 21, 1992	Jul 21, 1992	Jul 21, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10
Conc. Matrix Spike:	8.2	10	9.9
Matrix Spike % Recovery:	82	100	99
Conc. Matrix Spike Dup.:	8.6	9.8	9.5
Matrix Spike Duplicate % Recovery:	86	98	95
Relative % Difference:	4.8	2.0	4.1

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.
Laboratory Blank contained the following analytes: None detected.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

2070436.KEI <4>

SEQUOIA ANALYTICAL

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(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.
P.O. Box 996
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, 411 W. MacArthur Blvd., Oakland
QC Sample Group: 2070436-439
Reported: Jul 24, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

Method:	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020
Analyst:	A.P.	A.P.	A.P.	A.P.	A.P.
Reporting Units:	µg/L	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Jul 16, 1992	Jul 16, 1992	Jul 16, 1992	Jul 16, 1992	Jul 16, 1992
Sample #:	207-0436	207-0437	207-0438	207-0439	Matrix Blank
Surrogate % Recovery:	99	102	101	106	105

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

2070436.KEI <5>

SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.
P.O. Box 996
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, 411 W. MacArthur Blvd., Oakland
QC Sample Group: 2070436-439
Reported: Jul 24, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

Method:	EPA 8010	EPA 8010
Analyst:	K. Nill	K. Nill
Reporting Units:	µg/L	µg/L
Date Analyzed:	Jul 21, 1992	Jul 21, 1992
Sample #:	207-0436	Matrix Blank
Surrogate #1 % Recovery:	113	112
Surrogate #2 % Recovery:	111	104

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER	SITE NAME & ADDRESS	ANALYSES REQUESTED	TURN AROUND TIME:
VartKes	Unocal / Oakland 411 W. MacArthur Blvd	TPHG + BTEX; 8010	Regular.
WITNESSING AGENCY			

SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	REMARKS
MW-1	7/14/92	1:45 p.m.		✓	✓		4	Monitoring well	2970436AD
MW-2	"			✓	✓		2	"	437AB
MW-3	"			✓	✓		2	"	438AB
MW-4	"	3:10 p.m.		✓	✓		2	"	439AB

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
W. Tedrejian	7/14/92 4:40	Jim Watt
Kathleen Patton	7-15-92 1420	
	7-15-92 1559	

The following MUST BE completed by the laboratory accepting samples for analysis:

1. Have all samples received for analysis been stored in ice? Y
2. Will samples remain refrigerated until analyzed? Y
3. Did any samples received for analysis have head space? N
4. Were samples in appropriate containers and properly packaged? Y

J.C. (Signature) — Analyst (Title) — 7/14/92 (Date)