



**KAPREALIAN ENGINEERING, INC.**  
**Consulting Engineers**

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KEI-P88-1204.QR7  
March 11, 1991

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

Attention: Mr. Rick Sisk

RE: Quarterly Report  
Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Dear Mr. Sisk:

This report presents the results of the seventh quarter of monitoring and sampling of the monitoring wells at the referenced site by Kaprealian Engineering, Inc. (KEI), per proposal (KEI-P88-1204.P3) dated May 16, 1989. The wells are currently monitored monthly and sampled on a quarterly basis. This report covers the work performed by KEI from December, 1990 through February, 1991.

BACKGROUND

The subject site is presently used as a gasoline station. The site is situated on gently sloping, westward trending topography, and is located approximately 2 miles east-northeast of the present shoreline of San Francisco Bay. Also, the site is located approximately 2,000 feet south of San Leandro Creek. A Location Map, Site Vicinity Map and Site Plans are attached to this report.

Per Unocal Corporation's procedure for site divestments, KEI's work at the site began on December 30, 1988, when KEI was asked to install exploratory borings. On January 3, 1989, six exploratory borings, designated as EB1 through EB6 on the attached Site Plan, Figure 2, were drilled at the site. The six borings were drilled to depths ranging from 26.5 to 30 feet and ground water was encountered at depths ranging from 25 to 26.5 feet beneath the surface. Soil and water samples were analyzed by Sequoia Analytical Laboratory in Redwood City, California. Soil and water samples collected from borings EB2 through EB6 were analyzed for total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, xylenes and ethylbenzene (BTX&E). Soil samples collected from boring EB6 were also analyzed for TPH as diesel and total oil and

grease (TOG). Soil and water samples collected from boring EB1 were analyzed for TPH as diesel, TOG, and EPA methods 8010 and 8020 constituents. Analytical results of soil samples collected from borings EB1 through EB6 indicated levels of (TPH) as gasoline ranging from non-detectable to 73 ppm. Benzene was detected only in samples EB5(20) and EB6(15) at concentrations of 0.12 ppm and 0.065 ppm, respectively. Analytical results of soil samples collected from boring EB6 indicated levels of TPH as diesel ranging from 3 ppm to 160 ppm, and levels of TOG ranging from 130 ppm to 7,800 ppm. Analytical results of the water samples collected from borings EB2, EB3, and EB4 indicated non-detectable levels of TPH as gasoline. Analytical results of the water samples collected from borings EB5 and EB6 indicated levels of TPH as gasoline at concentrations of 340 ppb and 1,500 ppb, respectively. Benzene was detected in water samples collected from borings EB2 and EB6 at concentrations of 8.2 ppb and 1.5 ppb, respectively. Results of the soil analyses are summarized in Table 3, and the water analyses in Table 4. Documentation of the exploratory boring investigation, sample collection, and sample results are presented in KEI's report (KEI-P88-1204.R1) dated February 3, 1989. Based on the results of the exploratory boring investigation, KEI proposed installation of three monitoring wells.

On April 17, 1989, three two-inch diameter monitoring wells (designated as MW1, MW2 and MW3 on the attached Site Plan, Figure 1) were installed at the site. The three wells were drilled and completed to a total depth of 33 feet. Ground water was encountered at depths ranging from 17.5 to 18.5 feet. The wells were developed on April 24, 1989, and initially sampled on April 25, 1989.

Water and selected soil samples were analyzed by Sequoia Analytical Laboratory in Redwood City, California, for TPH as gasoline, BTX&E, TPH as diesel, TOG, and purgeable halocarbons. Analytical results of the soil samples collected from MW1, MW2 and MW3, indicated levels of TPH as gasoline ranging from non-detectable to 6.2 ppm, levels of TOG ranging from non-detectable to 180 ppm, and non-detectable levels of benzene, TPH as diesel and EPA method 8010 constituents. Analytical results of water samples collected from MW1, MW2, and MW3, indicated levels of TPH as gasoline ranging from non-detectable to 56 ppb, TPH as diesel ranging from non-detectable to 5,700 ppb, and benzene ranging from non-detectable to 0.35 ppb. Results of the soil analyses are summarized in Table 3, and water analyses in Table 2. Documentation of well installation, sample collection and sample results are presented in KEI's report (KEI-P88-1204.R2) dated May 16, 1990.

On May 11, 1989 at KEI's recommendation, the area surrounding exploratory boring EB6 (shown on the attached Site Plan, Figure 2)

was excavated. Four soil samples, labeled SWA, SWB, SWC and SWD, were collected from the sidewalls of the excavation at a depth of approximately 16.5 feet (six inches above the water table). The samples were analyzed for TPH as diesel and TOG. Analytical results of the soil samples indicated levels of TPH as diesel ranging from 16 ppm to 26 ppm, and levels of TOG ranging from 170 ppm to 850 ppm. Results of the soil analyses are summarized in Table 3. Documentation of the excavation investigation are presented in KEI's report (KEI-J88-1204.R4) dated June 15, 1989. Based on the results of the excavation soil samples and ground water contamination detected in the monitoring wells, KEI recommended installation of three additional monitoring wells.

On August 16, 1989, three additional two-inch diameter monitoring wells (designated as MW4, MW5, and MW6 on the attached Site Plan, Figure 1) were installed at the site. The new wells were drilled and completed to total depths of 33 feet. Ground water was encountered at depths of approximately 19.8 to 22 feet below grade during drilling. The new wells were developed on August 27, 1989 and initially sampled on August 29, 1989.

Water and selected soil samples were analyzed by Sequoia Analytical Laboratory in Redwood City, California, for TPH as gasoline, BTX&E, and TOG. In addition, the water samples were analyzed for TPH as diesel. Analytical results of the soil samples collected from the borings for monitoring wells MW4, MW5 and MW6 indicated non-detectable levels of all constituents analyzed except for soil sample MW4(5) which showed 3.3 ppm of TPH as gasoline and 0.11 ppm of xylenes, and soil sample MW5(20) which showed 20 ppm of TPH as gasoline. Analytical results of water samples collected from MW1, MW2, and MW6 indicated non-detectable levels of TPH as gasoline, benzene, TPH as diesel, and TOG. Analytical results of water samples collected from MW3, MW4, and MW5 indicated a level of TPH as gasoline in MW3 at a concentration of 3,200 ppb; a level of benzene in MW3 at a concentration of 73 ppb; and levels of TPH as diesel in MW3, MW4, and MW5 at concentrations of 860 ppb, 120 ppb, and 100 ppb, respectively. Results of the soil analyses are summarized in Table 3, and the water analyses in Table 2. Documentation of well installation, sample collection and sample results are presented in KEI's report (KEI-P88-1204.QR1) dated September 27, 1989. Based on the analytical results, KEI recommended a monthly monitoring and quarterly sampling program for all existing wells. The six wells MW1 through MW6 have been monitored monthly and sampled quarterly since August, 1989.

#### RECENT FIELD ACTIVITIES

Wells MW1 through MW6 were monitored three times and sampled once during the quarter. During monitoring, the wells were checked for

depth to water and presence of free product and sheen. Free product was observed in well MW3 on January 4, 1991 and also on February 4, 1991. No free product or sheen was noted in any of the other wells during the quarter. Monitoring data are summarized in Table 1.

Water samples were collected from the wells on February 4, 1991. The wells were each purged of 15 to 55 gallons using a surface pump and samples were then collected using a clean Teflon bailer. Monitoring well MW3 was not sampled due to the presence of free product. The samples were decanted into clean VOA vials and one liter amber bottles, sealed with Teflon-lined screw caps and stored on ice in a cooler until delivery to a state certified laboratory.

#### HYDROLOGY

Based on the water level data gathered during the quarter, the ground water flow direction appeared to be to the west-southwest with an average hydraulic gradient of approximately .003 on February 4, 1991, relatively unchanged from the previous quarter (see the attached Site Plan, Figure 1). Water levels have fluctuated during the quarter, and show a net increase in all the wells ranging from 0.40 to 0.50 feet since November 6, 1990. The measured depth to ground water at the site on February 4, 1991 ranged between 17.28 and 18.04 feet.

#### ANALYTICAL RESULTS

Ground water samples were analyzed at Sequoia Analytical Laboratory in Concord, California, and were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for TPH as gasoline using EPA method 5030 in conjunction with modified 8015, BTX&E using EPA method 8020, TPH as diesel using EPA method 3510 in conjunction with modified 8015, and TOG using Standard Method 5520B&F.

Analytical results of ground water samples collected from MW1, MW2, MW4, MW5, and MW6 indicate non-detectable levels of TPH as gasoline, benzene, TPH as diesel, and TOG. Results of the water analyses are summarized in Table 2. Copies of the analytical results and Chain of Custody documentation are attached to this report.

#### DISCUSSION AND RECOMMENDATIONS

Based on the analytical results collected and evaluated to date, KEI recommends the continuation of the current monitoring and sampling program of the existing wells. Ground water contamination appears to be limited to the vicinity of well MW3 only. Water

samples from all other wells have shown non-detectable levels of TPH as gasoline, benzene, TPH as diesel, and TOG for the past three quarters, except for 1.6 ppb of benzene detected in well MW6 on November 6, 1990. Therefore, KEI recommends that well MW3 be purged twice a month in an attempt to remove free product and to reduce levels of contamination. Our proposal for this work is attached for your review and consideration.

A field reconnaissance of the subject site on August 24, 1990 revealed the presence of soil borings within the existing asphalt parking area at the adjacent property located southwest of the site (see the attached Site Vicinity Map). KEI has reviewed a report prepared by Applied Geosystems (AGS) of San Jose, California, dated April 30, 1990 (AGS #60004-1), documenting this work. Soil and ground water samples were collected from five borings (B1 through B5) on the adjacent property. Analytical results of soil samples indicated non-detectable levels of petroleum hydrocarbons in all samples except for 200 ppm of TOG and 0.058 ppm of toluene detected at 16 feet in boring B5 located immediately southwest of MW3. Also, tetrachloroethene was detected in borings B2, B3 and B4 at depths of 15 to 17.5 feet at levels ranging from 0.0052 ppm to 0.0460 ppm. TPH as gasoline was detected in water samples collected from borings B2 and B3 at levels of 220 ppb and 50 ppb, respectively, which are located near a former dry cleaning operation (see the attached Site Vicinity Map). Also, tetrachloroethene (PCE) was detected in the water samples from all five borings at levels ranging from 2.2 ppb to 540 ppb with the greatest concentrations obtained from borings B2, B3 and B4 located near the former dry cleaning operation.

In addition, based on a site inspection conducted on December 27, 1990, one existing monitoring well was observed near the former dry cleaner operation (see attached Site Vicinity Map). Communication with Unocal Corporation on January 2, 1991 indicates that this well was not installed at the request of Unocal corporation and details of well installation are presently unknown. A review of the Regional Water Quality Control Board (RWQCB) Fuel Tank List Records for Alameda County dated 1/7/91 does not indicate that any site closely adjacent to the subject Unocal site (on Davis Street or Virginia Street) has a known fuel leak. KEI will review RWQCB records for known toxic leaks to determine if this well was installed for other reasons besides a fuel leak.

#### DISTRIBUTION

A copy of this report should be sent to the Mr. Larry Seto of the Alameda County Health Agency, to the City of San Leandro, and to the RWQCB, 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 this 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.

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If you have any questions regarding this report, please do not hesitate to call me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.



Aram B. Kaloustian  
Staff Engineer



Thomas J. Berkins  
Senior Environmental Engineer



Don R. Braun  
Certified Engineering Geologist

License No. 1310  
Exp. Date 6/30/92

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Attachments: Tables 1, 2, 3 & 4  
Location Map  
Site Vicinity Map  
Site Plans - Figures 1 & 2  
Laboratory Analyses  
Chain of Custody documentation  
Proposal

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TABLE 1

SUMMARY OF MONITORING DATA

<u>Date</u>	<u>Well No.</u>	<u>Ground Water Elevation (feet)</u>	<u>Depth to Water (feet)</u>	<u>Product Thickness (feet)</u>	<u>Sheen</u>	<u>Water Purged (gallons)</u>	<u>Product Purged (gallons)</u>
2/04/91	MW1	82.44	17.56	0	None	15	0
	MW2	82.28	18.04	0	None	15	0
	MW3	82.30	17.73	Trace	N/A	55	0
	MW4	82.38	17.28	0	None	15	0
	MW5	82.41	17.91	0	None	15	0
	MW6	82.51	17.99	0	None	15	0
1/04/91	MW1	82.74	17.26	0	None	0	0
	MW2	82.50	17.82	0	None	0	0
	MW3	82.55	17.49	0.01	N/A	55	0.007
	MW4	82.61	17.05	0	None	0	0
	MW5	82.66	17.66	0	None	0	0
	MW6	82.76	17.74	0	None	0	0
12/06/90	MW1	81.97	18.03	0	None	0	0
	MW2	81.77	18.55	0	None	0	0
	MW3	81.82	18.21	0	None	55	0
	MW4	81.88	17.78	0	None	0	0
	MW5	81.91	18.41	0	None	0	0
	MW6	82.01	18.49	0	None	0	0

<u>Well #</u>	<u>Surface Elevation* (feet)</u>
MW1	100.00
MW2	100.32
MW3	100.03
MW4	99.66
MW5	100.32
MW6	100.50

\* Elevations surveyed assuming well cover MW1 100 feet as datum.



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TABLE 2

SUMMARY OF LABORATORY ANALYSES  
 WATER

<u>Date</u>	<u>Sample Well #</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl-benzene</u>	
2/04/91	MW1*	ND	ND	ND	0.31	0.62	ND	
	MW2*	ND	ND	ND	0.38	0.87	ND	
	MW3	NOT SAMPLED DUE TO TRACE OF FREE PRODUCT						
	MW4*	ND	ND	ND	0.72	1.1	ND	
	MW5*	ND	ND	ND	0.35	ND	ND	
	MW6*	ND	ND	ND	ND	ND	ND	
11/06/90	MW1**	ND	ND	ND	ND	ND	ND	
	MW2**	ND	ND	ND	0.42	1.4	ND	
	MW3**	940	16,000	820	1,500	770	2,200	
	MW4**	ND	ND	ND	0.36	0.98	ND	
	MW5**	ND	ND	ND	ND	ND	ND	
	MW6**	ND	ND	1.6	0.35	ND	ND	
8/09/90	MW1*	ND	ND	ND	ND	ND	ND	
	MW2*	ND	ND	ND	ND	ND	ND	
	MW3*	500	1,900	56	140	140	31	
	MW4*	ND	ND	ND	ND	ND	ND	
	MW5*	ND	ND	ND	ND	ND	ND	
	MW6*	ND	ND	ND	ND	ND	ND	
5/10/90	MW1*	ND	ND	ND	ND	ND	ND	
	MW2*	ND	43	ND	1.0	ND	ND	
	MW3***	850	6,200	94	460	540	160	
	MW4*	88	54	ND	2.0	0.37	ND	
	MW5*	83	ND	ND	ND	0.31	ND	
	MW6*	ND	ND	ND	1.2	ND	ND	
2/23/90	MW1*	ND	ND	ND	ND	ND	ND	
	MW2*	ND	44	ND	ND	ND	ND	
	MW3****	350	ND	0.32	ND	ND	ND	
	MW4*	ND	ND	ND	ND	ND	ND	
	MW5*	ND	ND	ND	ND	ND	ND	
	MW6*	ND	ND	ND	ND	ND	ND	
11/21/89	MW1+	ND	ND	ND	ND	ND	ND	
	MW2+	ND	48	ND	0.51	ND	ND	
	MW3+	110	1,900	ND	ND	ND	ND	
	MW4*	ND	ND	ND	ND	ND	ND	
	MW5*	70	ND	ND	ND	ND	ND	
	MW6*	ND	ND	ND	ND	ND	ND	

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TABLE 2 (Continued)  
 SUMMARY OF LABORATORY ANALYSES  
 WATER

<u>Date</u>	<u>Sample Well #</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl-benzene</u>
8/11/89	MW1*	ND	ND	ND	ND	ND	ND
&	MW2*	ND	ND	ND	0.39	ND	ND
8/29/89	MW3*	860	3,200	73	140	240	35
	MW4*	120	ND	ND	ND	ND	ND
	MW5*	100	ND	ND	0.94	ND	0.30
	MW6*	ND	ND	ND	ND	ND	ND
4/25/89	MW1++	100	ND	0.31	ND	ND	ND
	MW2++	ND	32	0.35	ND	ND	ND
	MW3++	5,700	56	ND	ND	0.49	0.31
Detection Limits		50	30	0.3	0.3	0.3	0.3

\* TOG was non-detectable.

\*\* TOG was non-detectable. EPA method 8010 constituents were non-detectable, except in MW1, MW4, MW5, and MW6, where tetrachloroethene was detected at 4.8 ppb, 2.9 ppb, 0.76 ppb, and 1.2 ppb, respectively.

\*\*\* TOG was detected at 2.8 ppm.

\*\*\*\* TOG was detected at 1.3 ppm.

+ TOG was detected at concentrations of 8.9 ppm, 1.6 ppm and 3.8 ppm in MW1, MW2 and MW3, respectively.

++ MW1 showed PCE at 3.3 ppb and TCE at 0.55 ppb for EPA method 8010. MW2 showed PCE at 0.68 ppb for EPA method 8010. MW3 showed PCE at 1.0 ppb for EPA method 8010.

ND = Non-detectable.

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

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TABLE 3

SUMMARY OF LABORATORY ANALYSES  
 SOIL

<u>Sample Number</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>	<u>TOG</u>
(Collected on August 16, 1989)								
MW4	5	--	3.3	ND	ND	0.11	ND	<50
MW4	10	--	ND	ND	ND	ND	ND	<50
MW4	15	--	ND	ND	ND	ND	ND	<50
MW4	19	--	ND	ND	ND	ND	ND	<50
MW5	5	--	ND	ND	ND	ND	ND	<50
MW5	10	--	ND	ND	ND	ND	ND	<50
MW5	15	--	ND	ND	ND	ND	ND	<50
MW5	20	--	20	ND	ND	ND	ND	<50
MW5	22	--	ND	ND	ND	ND	ND	<50
MW6	5	--	ND	ND	ND	ND	ND	<50
MW6	10	--	ND	ND	ND	ND	ND	<50
MW6	15	--	ND	ND	ND	ND	ND	<50
MW6	20	--	ND	ND	ND	ND	ND	<50
(Collected on May 11, 1989)								
SWA	16.5	21	--	--	--	--	--	850
SWB	16.5	18	--	--	--	--	--	580
SWC	16.5	26	--	--	--	--	--	680
SWD	16.5	16	--	--	--	--	--	170
(Collected on April 17, 1989)								
MW1	5	ND	4.0	ND	ND	ND	ND	ND
MW1	10	ND	ND	ND	ND	ND	ND	ND
MW1	15	ND	ND	ND	ND	ND	ND	ND
MW1	17	ND	ND	ND	ND	ND	ND	31
MW2*	5	ND	ND	ND	ND	ND	ND	31
MW2*	10	ND	1.1	ND	ND	ND	ND	60
MW2*	15	ND	ND	ND	ND	ND	ND	71
MW3	5	ND	ND	ND	ND	ND	ND	ND
MW3	10	ND	1.1	ND	ND	ND	ND	ND
MW3	15	ND	1.2	ND	ND	ND	ND	32
MW3	17	ND	6.2	ND	0.21	0.42	ND	180

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TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES  
SOIL

<u>Sample Number</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>	<u>TOG</u>
(Collected on January 3, 1989)								
EB1(5)*	5	5.0	--	<0.005	0.05	<0.005	<0.005	--
EB1(10)*	10	1.0	--	<0.005	<0.005	<0.005	<0.005	--
EB1(15)*	15	1.0	--	<0.005	<0.005	<0.005	<0.005	--
EB1(25)*	25	2.0	--	--	--	--	--	--
EB2(10)	10	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB2(15)	15	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB2(20)	20	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB2(25)	25	--	1.9	<0.05	<0.1	<0.1	<0.1	--
EB3(5)	5	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB3(10)	10	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB3(15)	15	--	2.7	<0.05	<0.1	<0.1	<0.1	--
EB3(20)	20	--	2.2	<0.05	<0.1	<0.1	<0.1	--
EB3(25)	25	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB4(5)	5	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB4(10)	10	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB4(15)	15	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB4(20)	20	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB4(25)	25	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB5(5)	5	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB5(10)	10	--	<1.0	<0.05	<0.1	<0.1	<0.1	--
EB5(15)	15	--	2.0	<0.05	<0.1	<0.1	<0.1	--
EB5(20)	20	--	17	0.12	0.15	1.4	0.25	--
EB5(25)	25	--	3.9	<0.05	<0.1	0.17	<0.1	--
EB6(5)	5	10	1.8	<0.05	<0.1	<0.1	<0.1	7,800
EB6(10)	10	160	73	<0.05	<0.1	<0.1	<0.1	1,200
EB6(15)	15	40	17	0.065	<0.1	0.21	<0.1	900
EB6(25)	25	3.0	<1.0	<0.05	<0.1	<0.1	<0.1	130

-- Indicates analysis not performed.

ND = Non-detectable.

\* TOG and EPA method 8010 constituents were non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

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TABLE 4  
SUMMARY OF LABORATORY ANALYSES  
WATER

(Collected on January 3, 1989)

<u>Sample Number</u>	<u>TPH as Gasoline</u>	<u>TPH as Diesel</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
EB1	---	<50	<0.5	3.5	<0.5	<0.5
EB2	<50	--	8.2	7.4	3.3	0.67
EB3	<50	--	<0.5	<0.5	<0.5	<0.5
EB4	<50	--	<0.5	<0.5	<0.5	0.73
EB5	340	--	<0.5	<0.5	<0.5	0.63
EB6	1,500	--	1.5	1.4	12	8.1

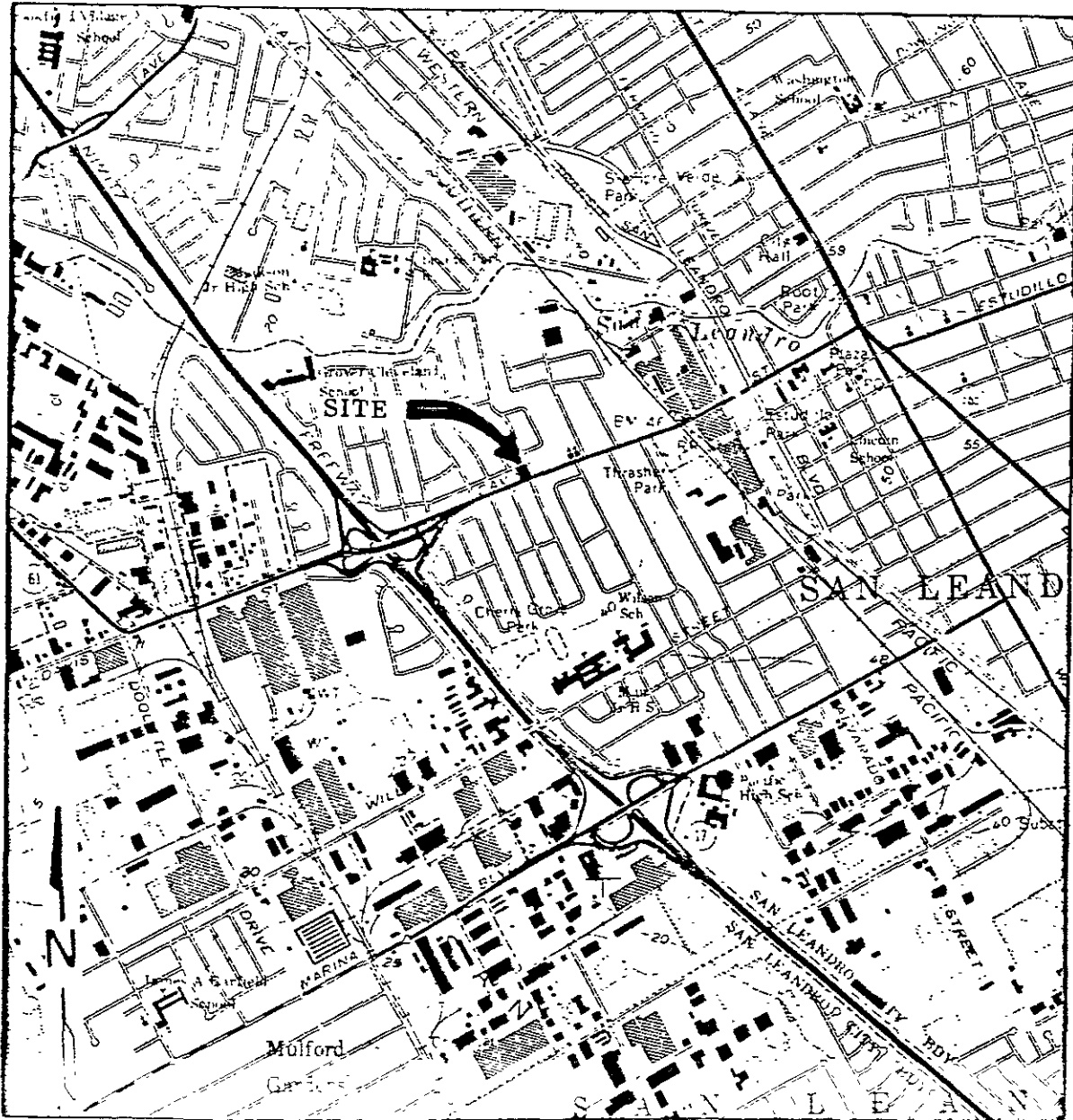
-- Indicates analysis not performed.

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



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LOCATION MAP

Urocal S/S #2512  
1300 Davis Street  
San Leandro, CA

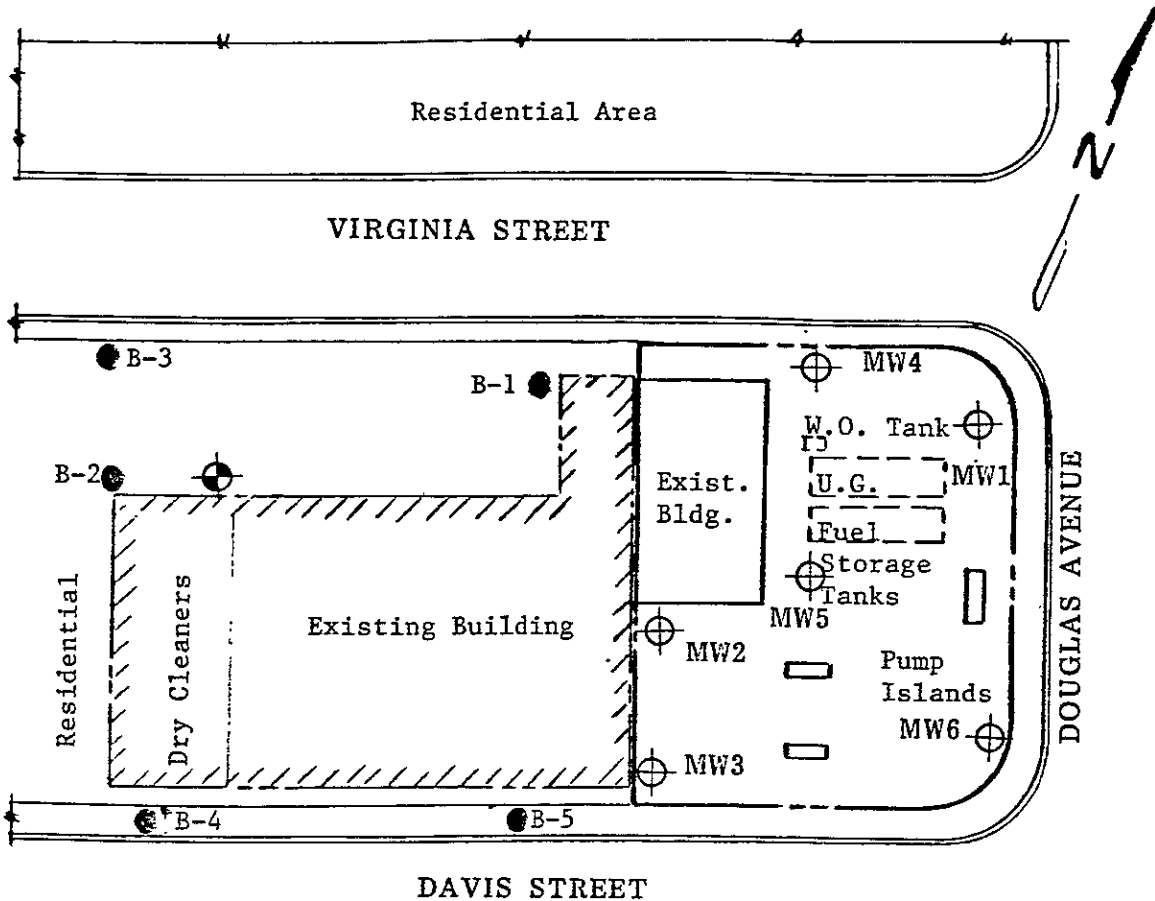


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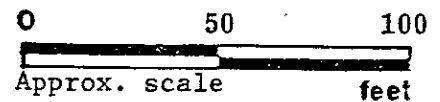
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SITE VICINITY MAP

LEGEND

- ⊕ Existing Monitoring Well (by KEI)
- ⊙ Existing Monitoring Well (by others)
- Approximate location of existing off-site Soil Borings (by AGS)



Unocal S/S #2512  
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San Leandro, CA

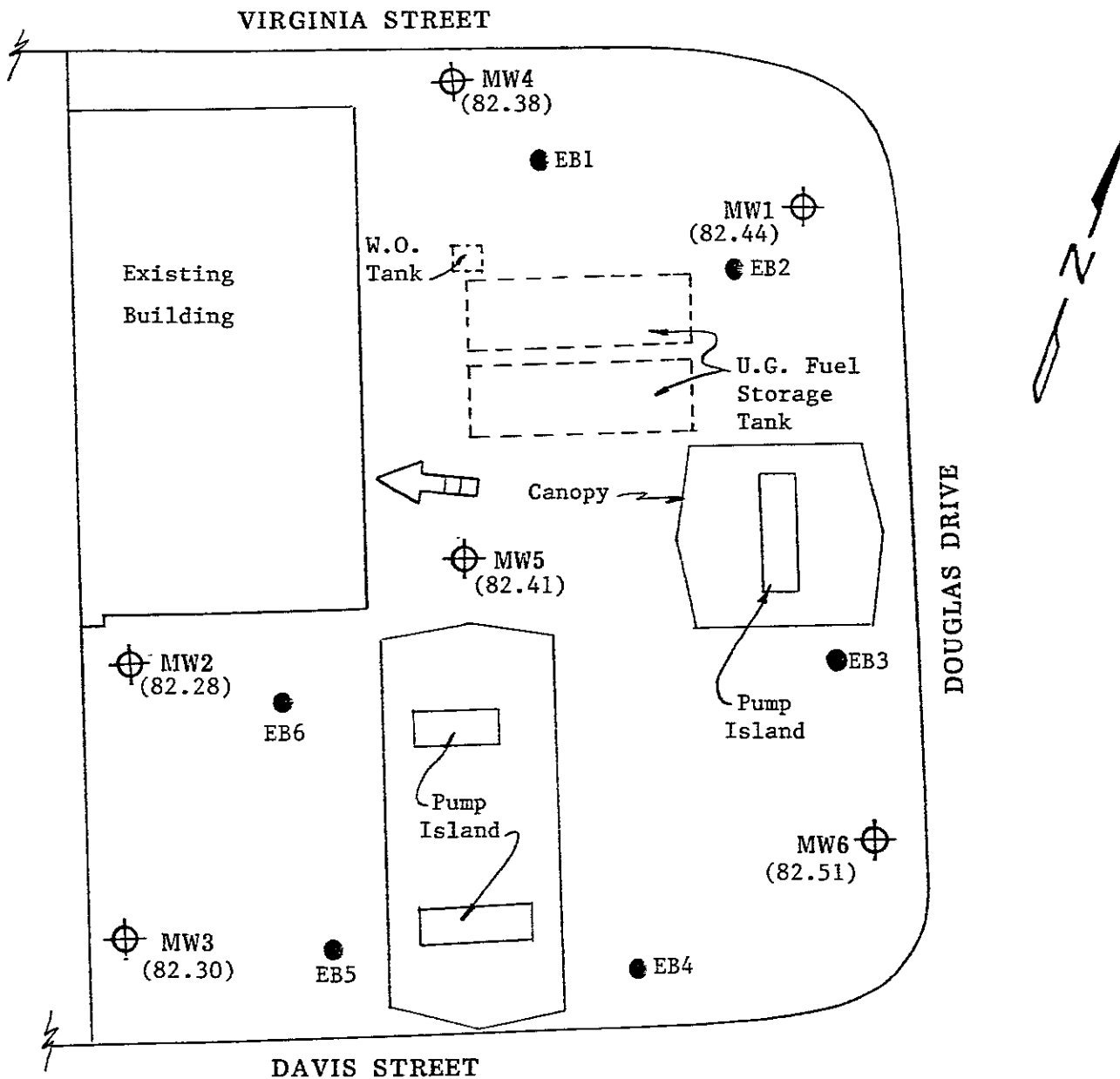


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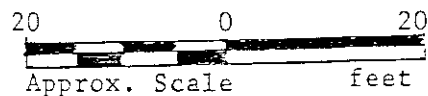
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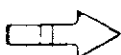
SITE PLAN  
Figure 1



### LEGEND

-  Monitoring Well
- ( ) Ground water elevation in feet on 2/4/91 Top of MW1 well cover assumed 100.00 feet as datum.

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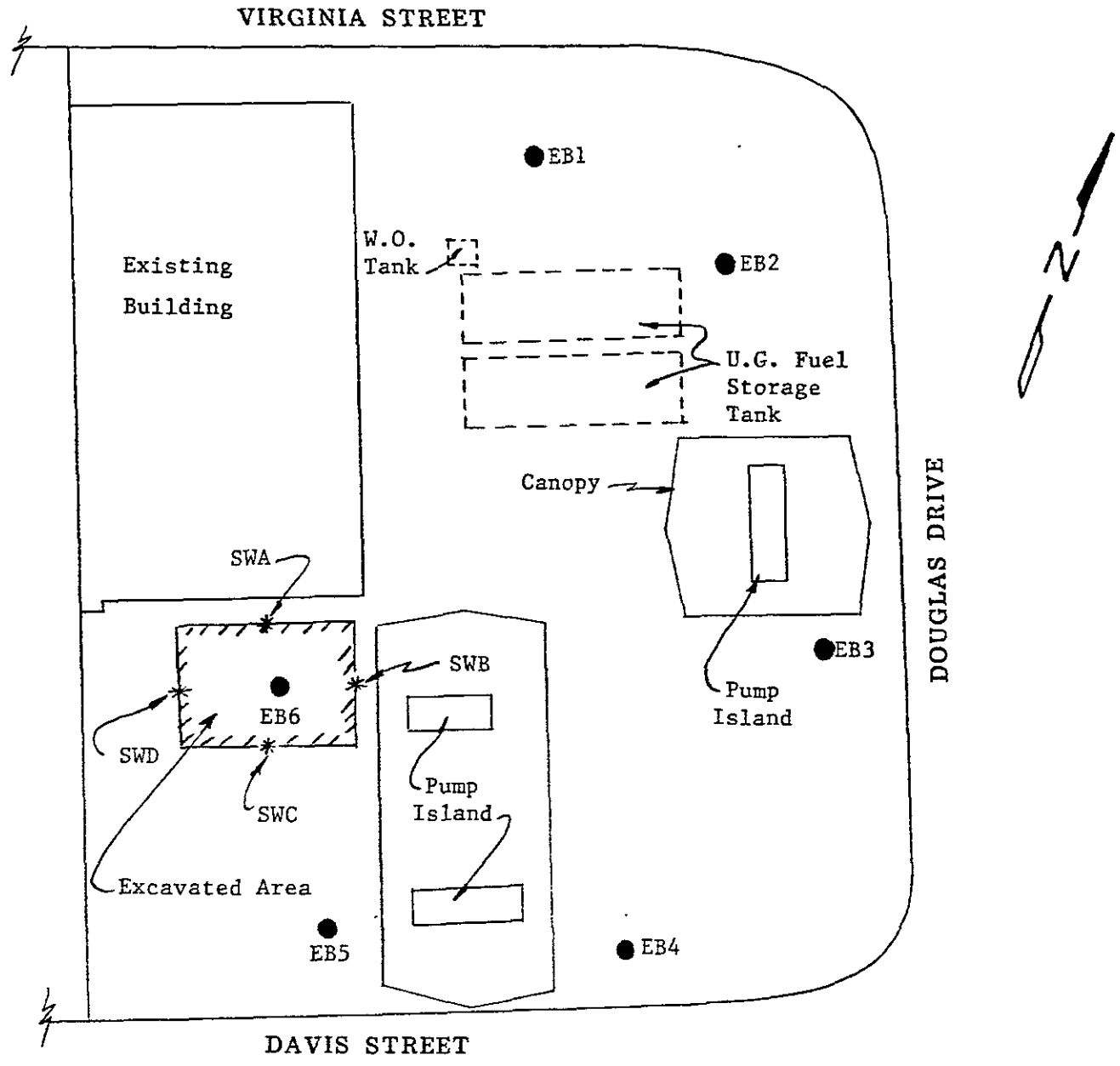
 Direction of ground water flow.



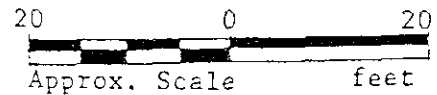


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SITE PLAN  
Figure 2



LEGEND

- Exploratory Boring
- \* Sample Point Location

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