ALCO HAZMAT

93 DEC 16 AM11: 00

DATE:

December 13, 1993

SUBJECT:

Meeting Minutes

Unocal Service Station #3292

15008 East 14th Street San Leandro, California

ATTENDEES:

Scott Seery, Alameda County Health Care Services "

Ed Ralston, Unocal Corporation

Tim Ross, Kaprealian Engineering, Inc. Bob Kezerian, Kaprealian Engineering, Inc.

On November 18, 1993, a meeting was held at the Alameda County Health Care Services (ACHCS) Agency office in Oakland, California, between the ACHCS, Unocal, and Kaprealian Engineering, Inc. (KEI). The meeting was held to discuss the ongoing subsurface investigations at the subject Unocal site and the other nearby sites in the vicinity.

KEI presented a summary of the subsurface investigation that has been conducted by KEI at and in the vicinity of the Unocal site to date. A site vicinity update was presented by Scott Seery.

SITE VICINITY UPDATE

- 1. The adjacent Quality Tune-Up (former Phillips 66 service station) site has obtained approval to close their existing underground storage tanks in-place from Mike Bakaldin of the San Leandro Fire Department.
- Chevron has proposed additional investigative work to further define the extent of contamination in the vicinity of their site.
- 3. The potential responsible parties (RP's) for the adjacent former Mobil site have been directed to conduct an investigation at the subject property. A 45-day deadline for the submittal of a work plan was directed by the ACHCS on October 29, 1993.
- 4. Currently, two ground water monitoring wells exist on the former Mobil site.
- 5. During previous work at the former Mobil site by PG&E, a concentration of 45,000 ppm of total oil and grease was detected in the soil along 150th street. Excavation was conducted in the area. Subsequent to excavation, less than 100 ppm of "TPH and total extractables" were detected.

ACTION ITEMS

- Unocal will contract to have a "Phase I" investigation conducted, which will include a detailed study of the site vicinity.
- Unocal will analyze the ground water samples collected from monitoring wells MW2 and/or MW6 and/or MW7 for EPA method 8010 constituents on a one-time basis.
- 3. If a ground water monitoring and sampling program is instituted for the existing wells on the Mobil site, Unocal will attempt to arrange a joint monitoring and sampling program.
- 4. Unocal, ACHCS, and KEI discussed the need for a future meeting with the RP's of all of the nearby sites to coordinate future warranted work.

Should you have any questions regarding these minutes, please do not hesitate to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

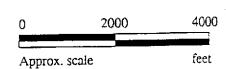
Robert H. Kezerian Project Manager

RA No. No.

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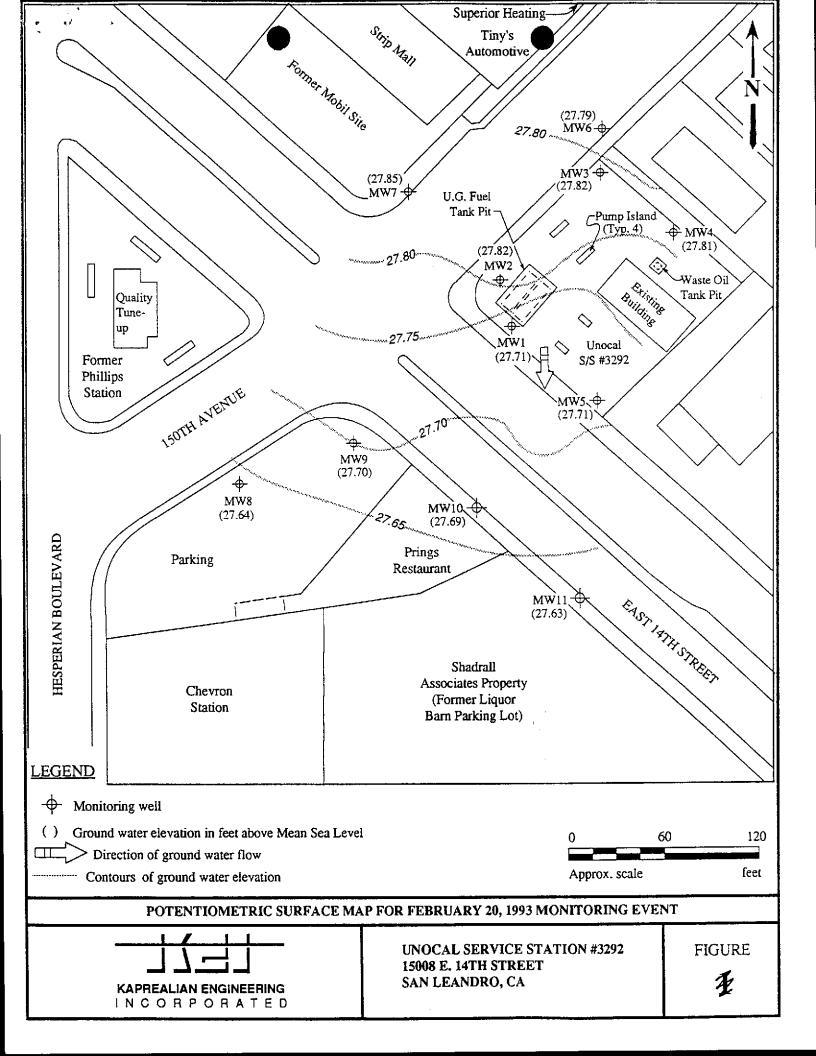


Base modified from 7.5 minute U.S.G.S. Hayward and San Leandro Quadrangles (both photorevised 1980)





UNOCAL SERVICE STATION #3292 15008 EAST 14TH STREET SAN LEANDRO, CA LOCATION MAP



KEI-P91-0102.QR5 April 6, 1993

TABLE *
SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	Sample Well #	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Xylenes	<u>Ethylbenzene</u>
2/20/93	MW1	19,000	190	ND	620	880
	MW2	1,500	2.9	3.8	ND	9.1
	EWM	1,600	12	18	12	8.9
	MW4	2,400	40	2.1	ND	33
	MW5	17,000	75	ND	620	1,000
	MW6	2,400	43	ND	2.0	33
	MW7	1,800	37	4.6	7.7	11
	8WM	2,200	32	ND	5.0	42
	MW9	2,300	47	ND	ND	32
	MW10	17,000	74	ND	620	1,000
	MW11	18,000	76	ND	630	1,000
11/10/92	MWl	18,000	220	ND	830	690
	MW2	11,000	36	7.2	4.5	570
	MW3	3,400	37	ND	34	85
	MW4	690	9.1	ND	2.8	16
-	MW5	57,000	800	1,800	18,000	4,400
	MW 6	490	7.0	1.2	ND	1.7
	MW7	1,800	74	ND	350	230
	8WM	1,800	20	ND	ND	ND
	MW9	4,200	ND	ND	23	21
	MW10	15,000	300	42	330	3,500
	MW11	5,800	130	ND	42	260
8/20/92	MW1	18,000	230	22	950	640
	MW2	13,000	52	ND	70	660
	EWM.	4,500	58	ND	35	65
	MW4	1,000	15	ND	3.0	11
	MW5	58,000	660	1,700	19,000	4,200
	MW6	280	8.4	ND	0.84	
	MW7	13,000	460	54	3,100	ИD
	8WM	3,500*	67	11	ND	ИD
	MW9	3,800*	37	ND	ИD	ND
	MW10	15,000	230	ND	350	1,000
	MW11	4,600*	62	ИD	54	ND

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TABLE 6 (Continued)

SUMMARY OF LABORATORY ANALYSES WATER

<u>Date</u>	Sample Well #	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
5/19/92	MW1	29,000	650	370	1,200	1,100
	MW2	17,000	140	87	170	680
	KWM S	3,400	25	3.6	41	66
	MW4	2,000	20	3.5	8.3	42
	MW5	84,000	760	1,500	17,000	4,000
	MW6	1,300	2.0	2.1	2.7	ND
	MW7	17,000	540	90	1,900	1,200
	8WM	5,300	28	3.3	2.1	2.6
	MW9	8,100	11	ND	5.8	25
3/17/92	MW1	23,000	320	19	940	1,000
, ,	MW2	16,000	110	ND	220	730
	MW3	5,800	66	7.5	58	100
	MW4	1,800	3.7	1.4	21	90
	MW5	81,000	850	1,600	18,000	4,800
12/18/91	MW1	17,000	160	20	1,600	1,400
, ,	MW2	10,000	110	5.1	96	420
	EWM	5,900	54	6.4	64	110
	MW4	2,500	28	2.5	22	54
	MW5	31,000	1,600	3,100	19,000	4,800
9/19/91	MW1	26,000	130	16	1,800	1,300
-	MW2	19,000	100	6.8	310	790
	EWM	7,600	ND	13	170	190
	MW4	1,800	0.83	ND	46	54
	MW5	57,000	1,600	2,700	20,000	5,200
5/04/91	MW1	31,000	74	20	1,500	920
	MW2	19,000	6.6	1.4	630	460
	EWM	9,100	2.0	ND	180	55
	MW4	6,300	ND	ND	61	2.8
	MW5	69,000	1,400	2,500	15,000	3,500

ND = Non-detectable.

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

^{*} Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

KEI-P91-0102.R6
October 5, 1992

TABLE 4
SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Date</u>	Sample <u>Number</u>		TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	Ethyl- <u>benzene</u>
4/23/91		5.0 10.0 12.0	ND 82 420	ND 0.20 1.2	ND 0.23 1.3	0.0070 0.31 0.72	ND 0.14 0.78
	MW2(5) MW2(10) MW2(12)	5.0 10.0 12.0	ND 2.2 12	0.089	ND ND 0.017	0.022 0.0064 0.075	ND
	MW3(5) MW3(10) MW3(13)	5.0 10.0 13.0	ND 1.4 3.5	ND 0.015 0.026	ND 0.0051 0.026	ND 0.014 0.030	. ND ИD 0.0088
	MW4(5) MW4(10) MW4(13)		ND ND ND	ND ND ND		ND 0.0060 0.012	
	MW5(5) MW5(10) MW5(14.5	10.0	7.7	0.029	ND 0.14 4.4	ND 0.090 75	
5/05/92	MW6(5.5) MW6(10.5		ND ND	ND ND	ND ND	ND ND	ND ND
	MW7(9) MW7(12.5	9.0) 12.5		0.45 1.9	0.45 0.47	23 47	7.2 15
5/06/92	MW8(5) MW8(10) MW8(11.5 MW8(13.5	10.0) 11.5		ND ND	ИD	ND ND ND 0.014	ND ND ND ND
	MW9(5) MW9(10) MW9(12)			ND ND ND	0.0053 ND ND	0.0078	

KEI-P91-0102.R6
October 5, 1992

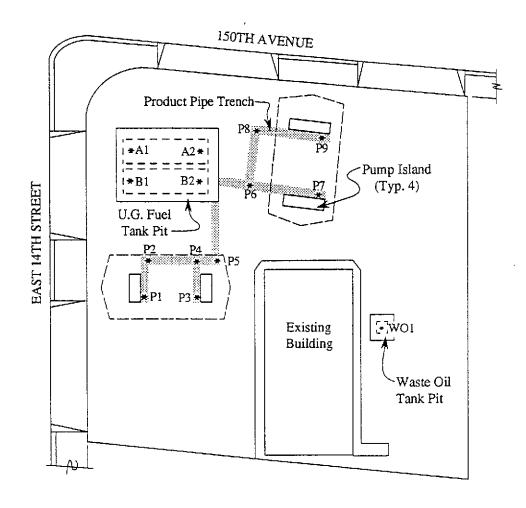
TABLE # (Continued)

SUMMARY OF LABORATORY ANALYSES SOIL

<u>Date</u>	Sample <u>Number</u>	Depth (feet)	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	Ethyl- <u>benzene</u>
8/13/92	MW10(5)	5.0	ND	ND	ND	0.0098	ND
	MW10(10)	10.0	1.2	0.013	0.0064	0.013	0.019
	MW10(13)	13.00	32	ND	0.11	0.065	0.99
	MW11(5)	5.0	ND	ND	ND	0.0063	ND
	MW11(10)	10.0	2.3	ND	0.0050	0.014	0.037
	MW11(12)	12.0	47	ND	0.056	0.38	0.46
Dete Limi	ction ts		1.0	0.0050	0.0050	0.0050	0.0050

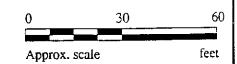
ND = Non-detectable.

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



LEGEND

* Sample point location (Samples collected during January and February of 1991)



FUEL TANK PIT AND FUEL LINE SOIL SAMPLE LOCATIONS



UNOCAL SERVICE STATION #3292 15008 E. 14TH STREET SAN LEANDRO, CA FIGURE



KEI-P91-0102.R6 October 5, 1992

TABLE *

SUMMARY OF LABORATORY ANALYSES

SOIL

(Collected on January 16, and February 11 & 12, 1991)

Sample	Depth (feet)	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Xylenes	Ethylbenzene
A1	15.5	2,600	7.1	55	170	55
A2	16.0	290	1.3	1.1	1.2	1.5
B1	15.5	840	1.5	2.7	9.9	1.3
B2	15.0	150	1.6	3.3	11	2.0
P1	3.5	ир	0.0072	0.019	0.026	, ND
P2	4.75	1.2	0.014	0.041	0.11	0.019
P3	3.75	ND	ND	ND	ND	ND
P4	3.75	ND	ND	ND	ND	ND
P5	3.5	ND	ND	ND	ND	ND
P6	5.0	ND	ND	ND	ND	ND
P 7	5.0	7.1	0.89	0.23	0.70	0.57
P8	3.5	ND	ND	ИD	ND	ND
P9	7.5	130	0.068	0.37	0.076	0.66
WO1*	8.25	ND	ND	ND	ND	ИD
Detecti Limits	on	1.0	0.0050	0.0050	0.005	0.0050

ND = Non-detectable.

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

^{*} TOG, TPH as diesel, and all EPA method 8010 constituents were non-detectable. Metals were non-detectable, except for zinc, which showed 31 ppm.

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County Health Care Services (ACHCS) Agency for the following sites:

1) Former Mobil service station site (presently a shopping center), 14994 E. 14th Street; 2) Former Phillips service station site (presently a Quality Tune-Up facility), 14901 E. 14th Street; and 3) Shadrall Associates Property (former Liquor Barn), 15035 E. 14th Street. The locations of the sites relative to the Unocal site are shown on the attached Site Vicinity Map, Figure 5.

1. Former Mobil Site (presently a shopping center), 14994 E. 14th Street:

The former Mobil site is located directly across 150th Avenue and approximately 80 feet northwest of the Unocal site. Documents contained within the CSLFD and ACHCS files indicate that three underground storage tanks were relined in February 1984, due to failed precision tests. File documents indicate that the leaks were acknowledged at the time by Mobil Oil and the dealer. The tanks were removed from the site in 1986. Volatile hydrocarbons ranged from non-detectable to 1,700 ppm in soil samples collected from beneath the tanks. Correspondence from the ACHCS indicates that soils with hydrocarbon levels of up to 1,000 ppm were left in place. One monitoring well was required by the regulatory agencies, but no documentation was found as to whether it was ever installed.

In 1987, a PG&E crew reported encountering hydrocarbon contaminated soil during utility pole replacement along 150th Avenue, along the southeast edge of the former Mobil site. In September through November of 1987, Subsurface Consultants of Oakland, California, installed a total of 15 borings in the immediate vicinity of this contamination (approximately 40 feet northeast of Unocal well MW7). TPH as gasoline and TPH as diesel detected in soil samples collected from the borings ranged from non-detectable to 370 ppm, and non-detectable to 200 ppm, respectively. Trans-1,2,-dichloroethene, trichloroethene, and tetrachloroethene were detected in the boring closest to the PG&E excavation at levels of 6,600 ppb, 15,000 ppb, and 8,000 ppb, respectively, at a depth of 5 feet below grade. Approximately 125 cubic yards of soil were subsequently removed from the affected area. The approximate limits of the excavation are shown on the attached Site Vicinity Map, Figure 5. In April 1988, one monitoring well was installed within 10 feet of the excavation in the presumed down-gradient direction. The initial water sample collected from this well showed 29,000 ppb of TPH as gasoline. No documentation of further sampling or investigation was found in the file review.

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2. Former Phillips Service Station (site presently occupied by a Quality Tune-Up Facility), 14901 E. 14th Street:

The former Phillips site is located approximately 150 feet west of the Unocal Site. No records of any site investigation or sampling activities were found during the file review. A Fire Safety Inspection Sheet contained in the CSLFD records infers that three underground fuel storage tanks, along with their associated piping, were sealed and abandoned in place in July of 1976.

3. <u>Shadrall Associates Property (former Liquor Barn), 15035 E.</u> 14th Street:

As previously reported, a report from Law Environmental, Inc., of San Rafael, California, dated November 14, 1990, and titled "Phase II Site Assessment Report" documents the installation of three monitoring wells. Ground water flow was towards the southwest with a gradient of 0.0003 on October 25, 1990. A sample collected from upgradient well MW3 on the same date showed a level of 11,000 ppb of TPH as gasoline and 540 ppb of benzene. No information concerning the three wells was available at the CSLFD or the ACHCS at the time of our review.

In addition to the three sites listed above, KEI reviewed all available CSLFD and ACHCS records pertaining to Tiny's Automotive Service, located at 1405 150th Avenue, and Superior Heating and Sheet Metal, located at 1455 150th Avenue. These sites are located northeastward of and adjacent to the former Mobil site, and approximately 100 and 150 feet directly upgradient of the Unocal site. No record of underground storage tanks exist for either site.

In summary, laterally undefined contamination from the former Mobil site appears to be impacting off-site monitoring well MW7. This contamination, and undefined potential contamination from the former Phillips Service Station site, may be contributing to the contaminant levels observed in the other Unocal wells. Therefore, KEI recommends that Unocal request that Mr. Scott Seery of the ACHCS contact the responsible parties for the Phillips service station site and the former Mobil site, so that these potential responsible parties can instigate investigations for their former sites.

Lastly, based on the analytical results of the samples collected from the Unocal site, and evaluated to date, KEI recommends the continuation of the existing ground water monitoring and sampling program, per KEI's proposal (KEI-P91-0102.P3) dated August 6, 1991.

			I	BORING	GLOG		
Project No. KEI-P91-0102				Diameter		Logged By JGG D.L. (50 (12 >	
KE1-171-0102			Casing Diameter 2"			D.L. <i>CEG 1633</i>	
Project Name Unocal S/S #3292 15008 E. 14th, San Leandro			Well Cover Elevation			Date Drilled 8/13/92	
Boring No. MW10			Drilling Hollow-stem Method Auger			Drilling Company Woodward Drilling	
Penetration G. W. Depth level (feet) Samples			grap	Strati- graphy Desc USCS		ription	
		- · -	_	T	Concrete slab.		
NO BLOW COUNT DATA - SAMPLES				39-39-393 39-39-39-39 39-39-39-39 39-39-39-39	Sand and gravel mixe disturbed native soil)	ed with black silty clay (fill and	
PUSHED			sc			sand and gravel, very stiff, moist, very /1) and black (10YR 1/1), mottled.	
		5 1			fine to coarse-grained	ce gravel to 3/4 inch in diameter, sand in diameter, sand in dense, moist, dark brown in-oxide stained root holes.	
			ML		Silt with trace fine-gr gray (5GY 4/1).	rained sand, stiff, moist, dark greenish	
		10	CL			t, dark gray (SY 4/1), olive brown 0.5 feet with dark greenish gray (5GY toles.	
			MH			ist, olive gray (5Y 4/2).	
		├	CL		Silty clay, as at 11 fe	 	
	<u>-</u> - 15		MH	2000000	· · ·	ist, olive gray (5Y 4/2).	
		<u> </u>	SM	3333	dense, wet, dark gree	clay, sand is fine-grained, medium nish gray (5GY 4/1).	
			— Сн			t, olive gray (5Y 4/2) and very dark	
		15 -			grayish brown (10YR 3/2), mottled.		
		 	ML			iff, very moist to wet, dark greenish svery fine to fine-grained.	
					Silty clay, stiff, mois oxide staining.	t, olive gray (5Y 4/1) with minor iron	
	!		СН		, ,	ce sand, stiff, moist, very dark brown dark gray (10YR 3/1), mottled, minor	
		20				TOTAL DEPTH 20'	
		<u> </u>	_				