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MPDS-UN0746-07 May 24, 1995

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

Attention: Mr. Edward C. Ralston

RE: Quarterly Data Report

Unocal Service Station #0746

3943 Broadway

Oakland, California

Dear Mr. Ralston:

This data report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by MPDS Services, Inc.

RECENT FIELD ACTIVITIES

The monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Skimmers were present in wells MW3 and MW5. Prior to sampling, the wells were checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations are summarized in Table 1. The ground water flow direction during the most recent quarter is shown on the attached Figure 1.

Ground water samples were collected on May 3, 1995. Prior to sampling, the wells were each purged of between 3 and 10 gallons of water. Samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. MPDS Services, Inc. transported the purged ground water to the Unocal Refinery located in Rodeo, California, for treatment and discharge to San Pablo Bay under NPDES permit.

ANALYTICAL RESULTS

The ground water samples were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The analytical results of the ground water samples collected to date are summarized in Table 2. The concentrations of Total Petroleum Hydrocarbons (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 the Chain of Custody documentation are attached to this report.

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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.

DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services.

If you have any questions regarding this report, please do not hesitate to call Mr. Nubar Srabian at (510) 602-5120.

Sincerely,

MPDS Services, Inc.

Sarkis A. Karkarian

Goskii Kosker

Staff Engineer

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

License No. EG 1633 Exp. Date 8/31/96

/bp

Attachments: Tables 1 & 2

Location Map Figures 1 & 2

Laboratory Analyses

Chain of Custody documentation

cc: Mr. Timothy R. Ross, Kaprealian Engineering, Inc.

TABLE 1
SUMMARY OF MONITORING DATA

Ground Depth Total Product Water Volume Water Volume Water Depth Thick Water Droduct Depth Dept	Mater Fo Wall Thick- Project Purged Purged									
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	Monitored and Sampled on May 3, 1995			<u> </u>				na katalan kat		
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MW5 73.28 8.10 19.73 0 No 9 0 MW6 73.29 6.65 19.59 0 No 9 0 MW7 73.76 7.88 19.92 0 No 8.5 0 MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW5 73.28 8.10 19.73 0 No 9 0 MW6 73.29 6.65 19.59 0 No 9 0 MW7 73.76 7.88 19.92 0 No 8.5 0 MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW3	73.36	8.05	22.01	0	No	9.5	0	
MW6 73.29 6.65 19.59 0 No 9 0 MW7 73.76 7.88 19.92 0 No 8.5 0 MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW6 73.29 6.65 19.59 0 No 9 0 MW7 73.76 7.88 19.92 0 No 8.5 0 MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW4	73.63	7.66	19.95	0	No	8.5	0	
MW7 73.76 7.88 19.92 0 No 8.5 0 MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW7 73.76 7.88 19.92 0 No 8.5 0 MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW5	73.28	8.10	19.73	0	No	9	0	
MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW8 72.72 8.69 21.20 0 No 9 0 MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW6	73.29	6.65	19.59	0	No	9	0	
MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW7	73.76	7.88	19.92	0	No	8.5	0	
MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4	MW9 72.77 7.76 21.86 0 No 10 0 MW10* 71.32 10.29 21.66 0 No 8 0 MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	8WM	72.72	8.69	21.20	0	No	9	0	
MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0		72.77	7.76	21.86	0	No	10	0	
MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0	MW11* 65.90 12.28 19.07 0 No 5 0 MW12* 67.89 11.72 17.54 0 No 4 0		71.32			0	No	8	0	
MW12* 67.89 11.72 17.54 0 No 4 0	MW12* 67.89 11.72 17.54 0 No 4 0	MW11*			19.07	0	No	. 5	0	
				11.72	17.54	0	No	4	0	
RW1* 73.45 7.18 16.03 0 0 0		RW1*		7.18		0		0	0	

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

	Ground Water	Depth to	Total Well	Product Thick-		Water	Product
	Elevation	Water	Depth	ness		Purged	Purged
Well #	(feet)	<u>(feet)•</u>	<u>(feet)◆</u>	(feet)	<u>Sheen</u>	(gallons)	<u>(ounces)</u>
	(Monitored and	d Sampled	on Novembe:	r 10, 19	94)	
MW1*	74.11	6.43	19.60	0		0	0
MW2	73.85	7.47	19.75	0	No	9	0
MW3	73.94	7.47	21.98	0	Yes	10	0
MW4	72.08	9.21	19.92	0	No	8	0
MW5*	73.90**	7.54	19.91	0.08	N/A	0	4
MW6*	73.82	6.12	19.58	0		0	0
MW7*	73.98	7.66	19.98	0		0	0
8WM	73.60	7.81	21.18	0	No	10	0
MW9	73.28	7.25	21.94	0	No	10	0
MW10	68.97	12.64	21.72	0	No	7	0
MW11	64.61	13.57	19.13	0	No	4	0
MW12	66.21	13.40	17.60	0	No	3	0
RW1*	74.29	6.34	15.98	0		0	0
		(Monitored and	nd Sample	d on August	31, 199	4)	
MW1	72.27	8.27	19.58	0	No	8	0
MW2	71.47	9.85	19.80	0	No	7	0
MW3	71.33	10.08	22.03	0	No	8.5(50)	0
MW4	71.28	10.01	19.98	0	No	7	0
MW5*	71.15**	10.25	19.77	0.02	N/A	1(50)	0
MW6	72.01	7.93	19.53	0	No	8	0
MW7	72.52	9.12	19.97	0	No	7.5	0
MW8	70.04	11.37	21.22	0	No	7	0
MW9	69.56	10.97	21.90	0	No	7.5	0
MW10	68.14	13.47	21.68	0	No	6	0
MW11	65.21	12.97	19.10	0	No	4.5	0
MW12	66.79	12.82	17.57	0	No	3.5	0
RW1*	71.02	9.61	16.06	0		0	0

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

Well #	Well Casing Elevation (feet)▲
MW1	80.54
MW2	81.32
MW3	81.41
MW4	81.29
MW5	81.38
MW6	79.94
MW7	81.64
8WM	81.41
MW9	80.53
MW10	81.61
MW11	78.18
MW12	79.61
RW1	80.63

- The depth to water level and total well depth measurements were taken from the top of the well casings.
- Monitored only.
- ** Ground water elevation corrected due to the presence of free product (correction factor = 0.75).
- The elevations of the top of the well casings are relative to Mean Sea Level (MSL), per the City of Oakland Benchmark BM#1336 (elevation = 82.28 feet MSL).
- * Total well depth not measured.
- (x) Amount of water purged after well sampling.
- [x] Amount of product purged from skimmer.
- N/A = Not applicable.
- -- Sheen determination was not performed.

TABLE 2
SUMMARY OF LABORATORY ANALYSES
WATER

Date Well # Gasoline Benzene Toluene Denzene Xylenes				•				
5/03/95 MW1 260 21 39 17 24 MW2 ND ND ND ND ND ND MW3 26,000 740 990 1,100 4,400 MW4 160 8.3 0.52 1.5 3.7 MW5 12,000 680 160 600 1,800 MW6 ND ND ND ND ND ND 1.0 MW7 ND ND ND ND ND ND 1.0 MW8 75 ND ND ND ND ND 1.0 MW9 ND 0.85 0.67 1.3 1.0 MW10 ND ND ND ND ND ND ND ND ND MW11 ND ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND MW12 1,600 ND ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND ND ND ND MW6 ND ND ND ND ND MW6 ND ND ND ND ND ND MW7 ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW1 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW2 95 ND ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300						<u>.</u>		
MW2 ND ND ND ND ND ND ND ND ND MW3 26,000 740 990 1,100 4,400 MW4 160 8.3 0.52 1.5 3.7 MW5 12,000 680 160 600 1,800 MW6 ND	<u>Date</u>	Well #	<u>Gasoli</u>	<u>ne</u> I	Benzene	<u>Toluene</u>	<u>benzene</u>	Xylenes
MW2 ND ND ND ND ND ND ND ND ND MW3 26,000 740 990 1,100 4,400 MW4 160 8.3 0.52 1.5 3.7 MW5 12,000 680 160 600 1,800 MW6 ND	E /02 /0E	MTJ1	260		21	39	17	24
MW3 26,000 740 990 1,100 4,400 MW4 160 8.3 0.52 1.5 3.7 MW5 12,000 680 160 600 1,800 MW6 ND ND ND ND ND 1.0 MW7 ND ND ND ND ND 1.0 MW8 75 ND ND ND ND ND 1.0 MW9 ND 0.85 0.67 1.3 1.0 MW10 ND ND ND ND ND ND ND ND MW11 ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND MW2 1,600 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND MW7 ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW1 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW2 95 ↑ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300	5/03/95							
MW4 160 8.3 0.52 1.5 3.7 MW5 12,000 680 160 600 1,800 MW6 ND ND ND ND ND 1.0 MW7 ND ND ND ND ND 1.0 MW8 75 ND ND ND ND ND 1.0 MW9 ND 0.85 0.67 1.3 1.0 MW10 ND MW11 ND ND ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND ND MW12 1,600 ↑ ND ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND ND ND ND ND MW6 ND ND ND ND ND ND MW7 ND ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW1 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 95 ↑ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300				n				
MW5 12,000 680 160 600 1,800 MW6 ND ND ND ND ND 1.0 MW7 ND ND ND ND ND 1.0 MW8 75 ND ND ND ND 1.0 MW9 ND 0.85 0.67 1.3 1.0 MW10 ND ND ND ND ND ND 0.65 MW11 ND ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND MW2 1,600 ND ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND ND MW7 ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW1 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 95◆◆ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300			•	•				
MW6 ND ND ND ND ND 1.0 MW7 ND ND ND ND ND 1.0 MW8 75 ND ND ND ND 1.0 MW9 ND 0.85 0.67 1.3 1.0 MW10 ND ND ND ND ND ND 0.65 MW11 ND ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND MW2 1,600 ND ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND MW7 ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW12 95 ◆ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300				0				
MW7 ND ND ND ND ND 1.0 MW8 75 ND ND ND ND 1.0 MW9 ND 0.85 0.67 1.3 1.0 MW10 ND ND ND ND ND 0.65 MW11 ND ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND MW2 1,600 ND ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND MW7 ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 95 ↑ ND ND ND ND MW2 95 ↑ ND ND ND MW4 ND SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW2 95 ↑ ND ND ND ND MW6 ND ND ND ND ND MW10 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW2 95 ↑ ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300				J				
MW8 75 ND ND ND 1.0 MW9 ND 0.85 0.67 1.3 1.0 MW10 ND ND ND ND ND ND ND 0.65 MW11 ND ND ND ND ND ND ND ND ND MW12 ND ND ND ND ND ND ND ND MW2 1,600 ND ND ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND ND MW7 ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 95 ↑ ND ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300								1.0
MW9 ND 0.85 0.67 1.3 1.0 MW10 ND								
MW10 ND							1.3	1.0
MW11 ND ND ND ND ND ND ND 2/07/95 MW1 6,100 670 ND 120 60 MW2 1,600♦ ND ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND MW7 ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND MW2 95♦♦ ND ND ND ND MM3 86,000 3,300 3,800 1,800 8,300							ND	0.65
MW12 ND ND ND ND ND ND 2/07/95 MW1 6,100 670 ND 120 60 MW2 1,600♦ ND ND ND ND ND MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND ND MW7 ND ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW12 95♦♦ ND ND ND ND ND MW2 95♦♦ ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300						ND	ND	ND
MW2 1,600					ND	ND	ND	ND
MW2 1,600	- 1 1			_		NET	100	C 0
MW3 45,000 1,400 1,300 1,500 5,600 MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND ND MW7 ND ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW12 95◆◆ ND ND ND ND ND MW2 95◆◆ ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300	2/07/95							
MW4 540 47 ND 17 2.5 MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND ND ND MW7 ND ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300								
MW5 25,000 1,400 740 990 3,000 MW6 ND ND ND ND ND ND ND MW7 ND ND ND ND ND ND MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300			•	0				
MW6 ND				_				
MW7 ND				0				
MW8 230 1.4 0.95 0.90 1.1 MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300								
MW9 57 0.70 ND 0.86 ND MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY 11/10/94 MW1 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300								
MW10 SAMPLED SEMI-ANNUALLY MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY 11/10/94 MW1 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300								
MW11 SAMPLED SEMI-ANNUALLY MW12 SAMPLED SEMI-ANNUALLY 11/10/94 MW1 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300						ND	0.86	ND
MW12 SAMPLED SEMI-ANNUALLY 11/10/94 MW1 SAMPLED SEMI-ANNUALLY MW2 95♦♦ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300								
11/10/94 MW1 SAMPLED SEMI-ANNUALLY MW2 95 ♦ ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300								
MW2 95♦♦ ND ND ND ND ND MW3 86,000 3,300 3,800 1,800 8,300		MW12	SAMPLED	SEMI-ANI	NUALLY			
MW3 86,000 3,300 3,800 1,800 8,300	11/10/94	MW1	SAMPLED	SEMI-ANI	NUALLY			
		MW2	95♦∢	•	ND	ND	ND	\mathbf{N} D
MITA 7 700 1 900 280 460 1 300		MW3	86,00	00	3,300	3,800	1,800	
		MW4	7,70		1,800	280	460	1,300
MW5 NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT		MW5	NOT SAME	LED DUE	TO THE	PRESENCE OF	FREE PRODUCT	
MW6 SAMPLED SEMI-ANNUALLY		MW6	SAMPLED	SEMI-AN	NUALLY			
MW7 SAMPLED SEMI-ANNUALLY		MW7	SAMPLED	SEMI-AN	NUALLY			
MW8 940 6.7 6.3 ND 16		8WM	940					
MW9 ND ND ND ND ND		MW9	ИD					
MW10 ND ND ND ND		MW10						
MW11 ND ND ND ND ND								
MW12 ND ND ND ND ND		MW12	ND		ND	ND	ND	ND

TABLE 2 (Continued)

	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			080808086			
<u>Date</u>	Well #	TPH as <u>Gasoline</u>	Benz	ene	<u>Toluene</u>	Ethyl- benzene	Xylenes
<u> </u>	<u></u>						
8/31/94	MW1	ND	N.	D	0.98	ND	0.84
	MW2	310♦	N	D	ND	ND	ND
	MW3	44,000	50	0	240	1,400	5,700
	MW4	400	1'		0.94	14	5.2
	MW5	NOT SAMPLED	DUE TO	THE	PRESENCE OF	FREE PRODUCT	
	MW6	ND	N.	D	1.5	ND	1.6
	MW7	ND	N.	D	0.80	ND	0.75
	8WM	1,800♦	N.	D	ND	ND	$\mathbf{N}\mathbf{D}$
	MW9*	650	7.	7	2.8	4.4	5.0
	MW10	ND	N	D	0.64	ND	0.54
	MW11	ND	N	D	1.5	ND	1.8
	MW12*	ND	N	D	1.0	ND	1.0
5/31/94	MW2	1,100♦	N	D	ND	ND	ND
2, 22, 22	MW3	39,000	67		630	1,500	6,200
	MW4	1,100	19		ND	100	58
	MW5	43,000	1,5		1,200	1,600	6,700
	MW8	350	3.		1.0	0.73	1.7
	MW9	360	7.		0.97	4.6	2.2
	MW10	ND	N	D	0.90	ND	0.91
	MW11	ND	N	D	ND	ND	ND
	MW12	ND	N	D	0.81	ND	0.82
2/16/94	MW1	ND	0.	84	ND	ND	0.59
_,,	MW2	3,200♦		D	ND	ND	ND
	мwз	57,000		10	2,500	2,100	9,000
	MW4	190		1	0.98	21	6.6
	MW5	NOT SAMPLED	DUE TO	THE	PRESENCE OF	FREE PRODUCT	
	MW6	ND	N	ID	ND	ND	ND
	MW7	ND	N	ID	ND	ND	0.70
	MW8	990		. 9	1.8	2.4	4.5
	MW9	250	5	. 1	1.3	4.4	1.5
	MWlO	ND	N	ID	ND	ND	ND
	MW11	ND	N	ID	ND	ND	ND
	MW12	ND	N	ID	ND	ND	ND

TABLE 2 (Continued)

-			. .						
5	**=33 A	000000000000000000000000000000000000000	TPH as			malva.		thyl-	Xylenes
<u>Date</u>	Well #	<u>U</u> E	soline		<u>Benzene</u>	<u>Tolue</u>	ire <u>o</u> e	<u>nzene</u>	<u>varenes</u>
11/30/93	MW1	SAME	LED SEM	I - ANN	NUALLY				
	MW2		480♦		ND	ND		ND	ND
	MW3	NOT	SAMPLED	DUE	TO THE		OF FREE	PRODUCT	
	MW4		200		28	ND		17	8.1
	MW5	NOT	SAMPLED	DUE	TO THE	PRESENCE (OF FREE	PRODUCT	
	MW6	SAME	LED SEM	I - AM	TUALLY				
	MW7	SAME	PLED SEM	I – ANI	NUALLY				
	MW8		3,500		18	ND		ND	ND
	MW9		200		5.6	ND		2.9	2.7
	MW10	WELI	WAS IN	ACCES	SSIBLE				
	MW11		ND		ND	ND		ND	ND
	MW12		ND		ND	ND		ND	ND
8/25/93	MW1		ND		ND	ND		ND	ND
	MW2		190♦	D	ND	ND	AE	ND	ND
	MW3	NOT	SAMPLED	DUE	TO THE		OF FREE	PRODUCT	
	MW4	1700	640	D. 170	100	1.1	AB	100	22
	MW5	NOT		DUE	TO THE	PRESENCE	OF FREE	PRODUCT	2775
	MW6		ND		ND	ND		ND	ND
	MW7		ND		ND	ND		ND	ND
	8WM		1,800		11	17		8.9	29
	MW9		220		10	ND		6.8	1.4 ND
	MW10		ND		ND	ND ND		ND ND	
	MW11 MW12		ND		ND ND	ND ND		ND	ND ND
	MMTZ		ND		ND	ND		ND	MD
5/25/93	MW1		260		27	4.9		2.6	54
	MW2*	-	1,300♦		ND	ND		ND	ND
	MW3	NOT	SAMPLED	DUE	TO THE	PRESENCE	OF FREE	PRODUCT	
	MW4		74		10	ND		4.6	1.8
	MW5	NOT	SAMPLED	DUE	TO THE	PRESENCE	OF FREE	PRODUCT	
	MW6		ND		ND	ND		ND	ND
	MW7		ND		ND	ND		ND	ND
	8WM		1,200		5.4	ND		9.0	21
	MW9		160		6.1	ND		7.4	1.1
	MW10		ND		ND	ND		ND	ND
	MW11		ND		ND	0.79	5	ND	1.0
	MW12		ND		ND	ND		ND	ND

TABLE 2 (Continued)

5 -4	77-33 D	TPH as	5	m_1	Ethyl-	w
<u>Date</u>	Well #	<u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>benzene</u>	<u>Xylenes</u>
2/24/93	MWl	1,100	280	4.9	120	140
_,,	MW2	11,000♦	ND	ND	ND	ND
	ММЗ	NOT SAMPLED DU			FREE PRODUCT	
	MW4	140	12	0.64	9.4	3.7
	MW5	NOT SAMPLED DU	E TO THE	PRESENCE OF	FREE PRODUCT	
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
	MW8	WELL WAS INACC	ESSIBLE			
	MW9	WELL WAS INACC	ESSIBLE			
	MW10	ND	ND	ND	ND	ND
	MW11	ND	ND	ND	ND	ND
	MW12	ND	ND	ND	ND	ND
11/20/92	MW1	ND	0.75	ND	ND	ND
	MW2	510♦	ND	ND	ND	ND
	MW3	1,100,000♦♦	1,800	6,400	3,000	15,000
	MW4	ND	6.2	ND	1.2	0.52
	MW5	NOT SAMPLED DU		•	FREE PRODUCT	NID
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
	MW8		ESSIBLE			
	MW9		ESSIBLE	NTD	NTD	NTO
	MW10	ND	ND	ND	ND	ND
	MW11	ND	ND	ND	ND	ND
	MW12	ND	ND	ND	ND	ND
8/26/92	MW1	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND.	ND
	MW3	20,000	690	1,900	1,300	5,700
	MW4	120	86	0.52	0.57	1.6
	MW5	NOT SAMPLED DU	E TO THE	PRESENCE OF	FREE PRODUCT	
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	0.73	ND
	MW8	1,800	12	8.0	4.0	13
	MW 9	250	13	ND	8.6	3.8
	MW10	ND	ND	ND	ND	ND
	MW11	ND	ND	ND	ND	ND
	MW12	ND	ND	ND	ND	ND
					the second second	

TABLE 2 (Continued)

			vanavanava		,		
Deto	Well #	TPH as <u>Gasoline</u>		Benzene	Toluene	Ethyl- benzene	<u>Xylenes</u>
<u>Date</u>	METT #	<u>Dasollile</u>	(00,00),000	<u>bennene</u>	TOTACHE	<u>Denzene</u>	waremes.
5/23/92	MW1	ND		ND	ND	ND	ND
-,,	MW2	ND		ND	ND	ND	ND
	MW3	25,000		300	130	880	4,900
	MW4	ND		ND	ND	ND	ND
	MW5	NOT SAMPLED	DUE	TO THE	PRESENCE OF	FREE PRODUCT	
	MW6	ND		ND	ND	ND	ND
	MW7	ND		ND	ND	ND	ND
	BWM8	2,100		8.6	1.6	1.7	28
	MW9	460		18	0.66	1.4	3.2
	MW10	ND		ND	ND	ND	ND
	MW11	ND		ND	ND	ND	ND
2/06/92	MW1	ND		ND	ND	ND	ND
	MW2	ND		0.36	0.66	ND	0.62
	MM3	24,000		600	1,800	1,200	5,800
	MW4	5,700		2,200	140	57	980
	MW5		DUE			FREE PRODUCT	
	MW6	ND		ND	ND	ND	ND
	MW7	ND		ND	ND	ND	ND
	MW8	2,600		4.1	7.0	31	93
	MW9	660		41	1.0	33	15
	MW10	ND		ND	ND	ND	ND
	MW11	ND		ND	ND	ND	ND
11/19/91	MW1	ND		ND	ND	ND	ND
11/13/31	MW2	ND		ND	ND	ND	ND
	MW3	22,000		250	440	660	3,000
	MW4	55		9.2	4.5	1.4	6.7
	MW5	NOT SAMPLED	DUE			FREE PRODUCT	÷
	MW6	ND	_ 	ND	ND	ND	ND
	MW7	32		ND	ND	ND	ND
	MW8	1,600		8.1	1.8	19	52
	MW9	360		17	0.45	15	11

TABLE 2 (Continued)

		TPH as		2	Ethyl-	
<u>Date</u>	Well #	<u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>benzene</u>	<u>Xylenes</u>
8/28/91	MW1	ND	ND	ND	ND	ND
0/20/51	MW2	ND	ND	ND	ND	ND
	MW3	16,000	650	2,200	1,100	5,400
	MW4	2,000	1,500	20	120	300
	MW5				FREE PRODUCT	300
	MW6	ND ND	ND ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
	MW8	1,800	3.2	1.9	19	74
	MW9	450	17	0.9	13	14
5/28/91	MWl	ND	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MW3	24,000	570	1,100	810	4,200
	MW4	38	ND	ND	ND	1.9
	MW5	24,000	2,300	3,400	1,300	6,000
	MW6	ND	ND	ND	ND	0.42
	MW7	39	ND	ND	ND	0.73
	8WM	4,800	4.2	1.3	5. 1	170
	MW9	590	6.0	0.43	6.8	1.4
2/25/91	MW1	ND	ND	ND	ND	ND
	MW2	ND	0.68	0.42	ND	0.86
	MW3	37,000	730	2,900	1,300	7,300
	MW4	22,000	600	1,300	780	2,800
	MW5	25,000	950	1,300	900	3,500
	MW6	ND	0.37	0.40	0.35	1.5
	MW7	70	ND	ND	ND	0.52
	MW8	5,300	17	6.1	53	300
	MW9	390	13	1.1	2.8	14
11/07/90	MW1	45	ND	ND	ND	ND
	MW2	ND	ND	ND	ND	ND
	MM3	42,000	1,400	5,000	1,800	7,500
	MW4	180	1.5	0.37	6.3	26
	MW5	20,000	640	1,100	670	3,000
	MW6	ND	ND	ND	ND	ND
	MW7	ND	ND	ND	ND	ND
	MW8	4,700	28	38	86	7,200
	MW9	480	7.8	1.2	13	47

TABLE 2 (Continued)

		TPH as			Ethyl-	
<u>Date</u>	<u>Well #</u>	<u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>benzene</u>	<u>Xylenes</u>
8/16/90	MW1	ND	ND	ND	ND	ND
	MW2	ND	ND	6.7	ND	ND
	MW3	6,800	600	660	760	160
	MW4	3,600	480	17	230	260
	MW5	16,000	1,400	1,900	2,800	660
2/15/90	MW1	170	7.9	ND	2.2	2.8
	MW2	ND	ND	ND	ND	ND
	MW3	20,000	1,700	2,100	750	3,100
	MW4	150	8.0	8.0	10	45
	MW5	24,000	1,500	1,700	260	3,600
11/01/89	MW1	ND	ND	ND	ND	0.30
	MW2	200	ND	ND	3.0	1.2
	мwз	13,000	57	48	1.7	120

- Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- ♦♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be gasoline and non-gasoline mixture.
- * Methyl tert butyl ether was detected at a concentration of:

 $2,700 \mu g/L$ in MW2 on May 25, 1993.

59 μ g/L in MW9 on August 31, 1994.

ND in MW12 on August 31, 1994.

ND = Non-detectable.

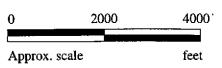
Results are in micrograms per liter $(\mu g/L)$, unless otherwise indicated.

Note: Laboratory analyses data prior to November 30, 1993, were provided by Kaprealian Engineering, Inc.



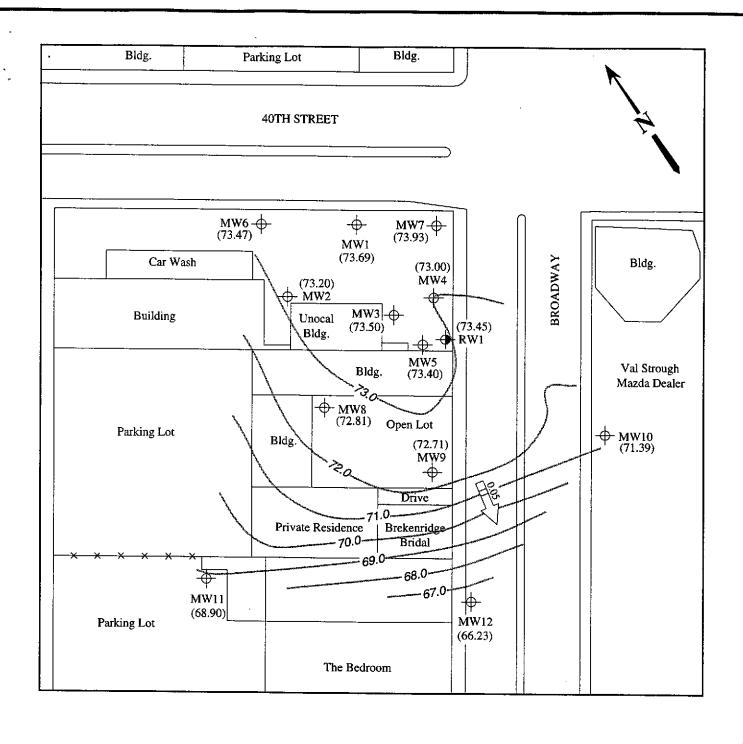


Base modified from 7.5 minute U.S.G.S. Oakland East and West Quadrangles (both photorevised 1980)





UNOCAL SERVICE STATION #0746 3943 BROADWAY OAKLAND, CALIFORNIA LOCATION MAP

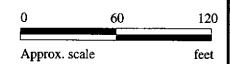


LEGEND

- Monitoring well
- 6-inch diameter recovery well
-) Ground water elevation in feet above Mean Sea Level

> Direction of ground water flow with approximate hydraulic gradient

Contours of ground water elevation



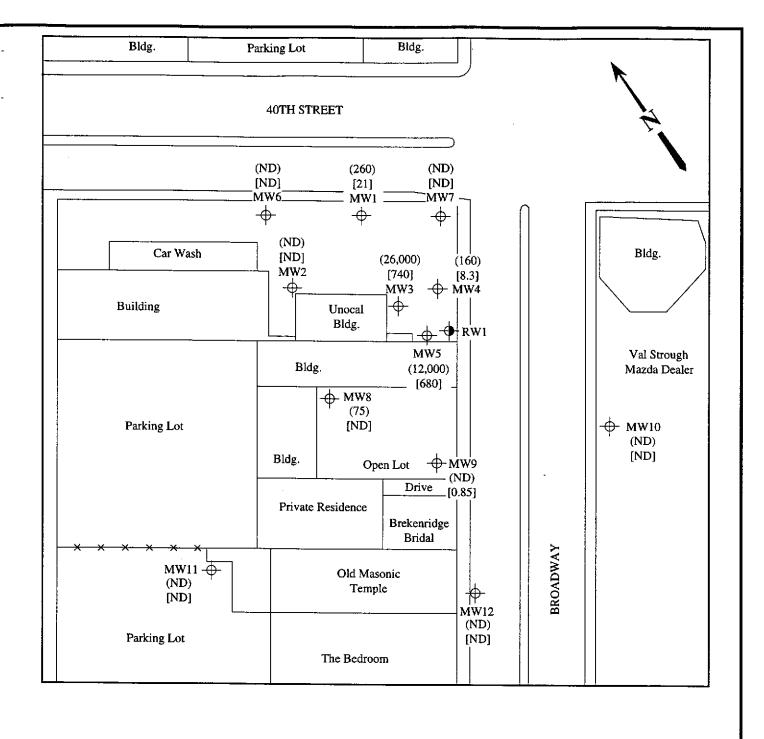
POTENTIOMETRIC SURFACE MAP FOR THE MAY 3, 1995 MONITORING EVENT



UNOCAL SERVICE STATION #0746 3943 BROADWAY OAKLAND, CALIFORNIA

FIGURE

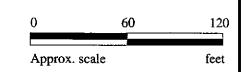
1



LEGEND

- → Monitoring well
- 6-inch diameter recovery well
- () Concentration of TPH as gasoline in μg/L
- [] Concentration of TPH as gasoline in µg/L benzene

ND = Non-detectable



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON MAY 3, 1995



UNOCAL SERVICE STATION #0746 3943 BROADWAY OAKLAND, CALIFORNIA

FIGURE

2



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Sarkis Karkarian Matrix Descript:

Client Project ID: Unocal #0746, 3943 Broadway, Oakland

Water

Analysis Method: EPA 5030/8015/8020 First Sample #: 505-0749

Sampled:

May 3, 1995

Received: May 3, 1995 Reported: May 17, 1995

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons µg/L	Benzene μg/L	Toluene μg/L	Ethyl Benzene μg/L	Total Xylenes μg/L
505-0749	MW-1	260	21	39	17	24
505-0750	MW-2	ND	ND	ND	ND	ND
505-0751	мw-з	26,000	740	990	1,100	4,400
505-0752	MW-4	160	8.3	0.52	1.5	3.7
505-0753	MW-5	12,000	680	160	600	1,800
505-0754	MW-6	ND	ND	ND	ND	1.0
505-0755	MW-7	ND	ND	ND	ND	1.0
505-0756	MW-8	75	ND	ND	ND	1.0
505-0757	MW-9	ND	0.85	0.67	1.3	1.0
505-0758	MW-10	ND	ND	ND	ND	0.65

Detection Limits:	50	0.50	0.50	0.50	0.50	
<u> </u>					4.44	

Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #2000

Signature on File





680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520

Client Project ID: Matrix Descript:

Unocal #0746, 3943 Broadway, Oakland Water

Sampled: Received: May 3, 1995 May 3, 1995

Attention: Sarkis Karkarian

Analysis Method:

EPA 5030/8015/8020

Reported:

May 17, 1995

First Sample #:

505-0749

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Chromatogram Pattern	DL Muit. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
505-0749	MW-1	Gasoline	1.0	5/15/95	HP-1	89
505-0750	MW-2		1.0	5/15/95	HP-1	90
505-0751	MW-3	Gasoline	100	5/16/95	HP-1	84
505-0752	MW-4	Gasoline	1.0	5/15/95	HP-1	84
505-0753	MW-5	Gasoline	1.0	5/16/95	HP-1	80
505-0754	MW-6		1.0	5/15/95	HP-1	82
505-0755	MW-7		1.0	5/15/95	HP-1	89
505-0756	MW-8	Gasoline	1.0	5/15/95	HP-1	82
505-0757	MW-9		1.0	5/16/95	HP-1	86
505-0758	MW-10		1.0	5/16/95	HP-1	84

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Signature on File





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300

Concord, CA 94520 Attention: Sarkis Karkarian Client Project ID: Matrix Descript:

Unocal #0746, 3943 Broadway, Oakland

Water

Analysis Method: EPA 5030/8015/8020 First Sample #: 505-0759

Sampled:

May 3, 1995

Received: May 3, 1995 Reported: May 17, 1995

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons μg/L	Benzene μg/L	Toluene μg/L	Ethyl Benzene μg/L	Total Xylenes μg/L
505-0759	MW-11	ND	ND	ND	ND	ND
505-0760	MW-12	ND	ND	ND	ND	ND

Detection Limits:	50	0.50	0.50	0.50	0.50	
		0.00	0.00	0.00	0.50	

Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #2000

Signature on File





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520

Client Project ID:

Unocal #0746, 3943 Broadway, Oakland

Sampled:

May 3, 1995 May 3, 1995

Attention: Sarkis Karkarian

Matrix Descript: Analysis Method:

EPA 5030/8015/8020

Received: Reported:

May 17, 1995

First Sample #:

505-0759

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

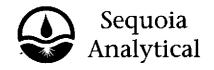
Water

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
505-0759	MW-11		1.0	5/16/95	HP-1	84
505-0760	MW-12		1.0	5/16/95	HP-1	86

SEQUOIA ANALYTICAL, #2000

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Sarkis Karkarian Client Project ID: Unocal #0746, 3943 Broadway, Oakland

Matrix: Liquid

QC Sample Group: 5050749-760

Reported:

May 19, 1995

QUALITY CONTROL DATA REPORT

ANALYTE					
ANALYIE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	N. Zahedi	N. Zahedi	N. Zahedi	N. Zahedi	
NO 2140D					_
MS/MSD					
Batch#:	5050223	5050223	5050223	5050223	
Date Prepared:	5/15/95	5/15/95	5/15/95	5/15/95	
Date Analyzed:	5/15/95	5/15/95	5/15/95	5/15/95	
Instrument I.D.#:	HP-1	HP-1	HP-1	HP-1	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Matrix Spike					
% Recovery:	97	100	101	104	
•					
Matrix Spike					
Duplicate %					
Recovery:	98	98	101	105	
Relative %					
Difference:	1.0	2.0	0.0	0.96	

LCS Batch#:				• •	
Date Prepared:					
Date Analyzed:		• •			
Instrument I.D.#:		•-			
LCS %					
Recovery:	••				
% Recovery		····		"	
Control Limits:	71-133	72-128	72-130	71-120	
		,2 120	, E- 100	/ 1-12U	

The I

SEQUOIA ANALYTICAL, #2000

Signature on File

Alan B. Kemp 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.





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Sarkis Karkarian Client Project ID:

Unocal #0746, 3943 Broadway, Oakland

Matrix: Liq

QC Sample Group: 5050749-760

Reported:

May 19, 1995

QUALITY CONTROL DATA REPORT

ANALYTE					
ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	N. Zahedi	N. Zahedi	N. Zahedi	N. Zahedi	
140 (140)					
MS/MSD					
Batch#:	5050257	5050257	5050257	5050257	
Date Prepared:	5/16/95	5/16/95	5/16/95	5/16/95	
Date Analyzed:	5/16/95	5/16/95	5/16/95	5/16/95	
Instrument I.D.#:	HP-1	HP-1	HP-1	HP-1	
Conc. Spiked:	10 μg/L	10 <i>µ</i> g/L	10 μg/L	$30\mu\mathrm{g/L}$	
Matrix Spike					
% Recovery:	86	82	86	91	
7ª Necovery.	80	6∠	80	91	
Matrix Spike					
Duplicate %					
Recovery:	101	90	96	101	
Relative %					
Difference:	40	2.2			
Dillerence:	16	9.3	11	10	
1000.11					
LCS Batch#:				••	
Date Prepared:			••	••	
Date Analyzed:		••			
Instrument I.D.#:					
LCS %					
Recovery:					
i icoo ici y i	- -			••	
% Recovery					
Control Limits:	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL, #2000 p

Signature on File

Alan B. Kemp 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.





CHAIN OF CUSTODY

SAMPLER			UNOC	AL	5 14/-	CITY: OALL	Aus	ANALYSES REQUESTED					TURN AROUND TIME:		
NICHOLAS	PERROW		İ		•			1S							
WITHESSING AGENCY			ADDR	ESS: _	3943	S BROAPEN A	7	79-1 XX	I- SEL	_{[17}					
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLIN LOCATIO	TPH-GAS BTEX	TPH- DIESEL	TOG	8010				REMARKS
tw-l	5/:195	2:34	~	/		Qu'OAS	WELL	V		5050	749	AB			
ハッーこ		1210Pm					7,	V		5050	750				
Mw3		3.30pm	_			i	11	رن ا		5050	751				_
mu-4		1:59/	-	U			11	V		5050	752				
mu=5	- /	SIL	سرا			<i>t i</i>	11	س ا		505	0753				
M2-6	Ç.,	930AM	~			1.4	1,	~		5050	754				
19~-7	. 1	10:00AM	<u>ب</u>	-		1.	10	V		505	0755				
Mw-8	. •	1:20B	· ·			()	11	<i>''</i>		5050	756				
Mw-7	. ,	1354	<i>\)</i>			. ,	,	V			757				
hw-10	,	10:55		مرا		· ·	7.3	~		505	0758	*			
RELINGUISI	HED BY:	DATE/T	IME		F	ECEIVED BY:	t	ATE/TIME		_					TING SAMPLES FOR ANALYSES:
						_			1. HAVE	ALL SAMPI	LES RECEIV	ED FOR A	ialysis bee	EN STORED ON ICE	, <u>/cs</u>
(SIGNATURE)		5/1/35 16/20	:		ATURE		3	12.52. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED?							
(SIGNATURE)	2	5-4		ISION	ATURE)		· · · -	3. DID A	NY SAMPLE	S RECEIVE	D FOR AN	LYSIS HAV	E HEAD SPACE?	NG
(SIGNATURE)				(SIGN	ATURE)			4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED?					KAGED7 VES	
(SIGNATURE)		5/3/45	650	ISIGN	TURE	<u></u>		SIGNATURE: A TITLE: DATE 5/3/4					DATE: 5/3/45		

Note: All water containers to be sampled for TPHG/BTEX, 8010 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers are unpreserved. Relinquished by:

1. Day 5/3/95

2. DOP m.



2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel: (510) 602-5100, Fax: (510) 689-1918

CHAIN OF CUSTODY

SAMPLER			UNO(CAL	14%	CITY: PAP	والمال	ANALYSES REQUESTED TURN ARO					TURN AROUND TIME:						
NICHOLAS	PERROW		ADDR	- <u> </u>	3.17 d]	CITY: <u>UAU</u> BLADW	44	TPH-GAS BTEX	Z.	75			H						1
WILLIAMS AND ADDRESS T				_				I I K	H K	U					1	REGULAR			
SAMPLE ID NO.	DATE	TIME	WATER	GRAÐ	COMP	NO. OF CONT.	LOCATIO	TPI	TPH- DIESEL	TOG	8010					REMARKS			
MW	5/3/95	110000	l	1		-2 WAS	Life	· U		5050	759	A3							
ha. IZ		1114041	lan.	L			7,			5050	76 0	do							
						<u></u>													
	· ··														ļ				
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· -				ļ <u>.</u>			<u> </u>		ļ <u></u>										
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RELINQUISH	IED BY:	DATE/T	IME		- A	ECEIVED BY:] 	DATE/TIME	THE FO	DITOMING I	MUST BE C	OMPLETEC	BY THE L	ABORATOR	Y ACCEP	TING SAMPLES FOR ANALYSES:			
									1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE?										
ISIGNATURE		5/3/5/5 16 20		ISIGN	ATURE			12/3 2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED?											
(SIGNATURE)	7	5-4	<u>-</u>	(SIGN	ATURE			3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE?											
(SIGNATURE)		7		ISIGN	ATURE			4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED?						AGED?					
(SIGNATURE)		5/3/65		(SIGN	ATURE 5 //	7			SIGNAT	URE:	w fr			TIT	LE:	DATE: 5/3/85			

Note: All water containers to be sampled for TPHG/BTEX, 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers are unpreserved. Let nguistically: Tang 5/3/95