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REPLY TO SAN FRANCISCO  
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HANSON  
BRIDGETT

MARCUS  
VLACHOS  
RUDY LLP

August 24, 2000

Mike Bakaldin, Hazardous Materials Coordinator  
City of San Leandro  
Civic Center  
835 East 14th Street  
San Leandro, CA 94577

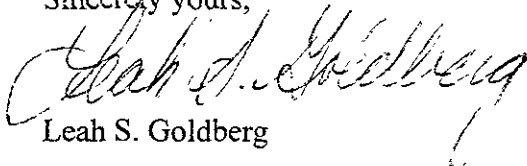
Re: 1300 Davis Street, San Leandro, California

Dear Mr. Bakaldin:

Enclosed for your reference is a copy of the *Third Quarter 1999 Groundwater Monitoring & Sampling Report*, performed by Gettler-Ryan Inc. for Unocal. I believe this is the most recent groundwater monitoring report available.

If you have any questions, please give me a call.

Sincerely yours,



Leah S. Goldberg

LSG:amg

Enclosure

cc: Doug Federighi (w/enclosure)

LAW OFFICES

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# GETTLER-RYAN INC.

## TRANSMITTAL

Forward to  
Mike Fox

September 9, 1999

G-R #:280036

**TO:** Mr. Robert A. Boust  
Unocal Corporation  
2121 N. California Blvd., Suite 250  
Walnut Creek, California 94596

**CC:** Mr. Greg Gurs  
Gettler-Ryan Inc.  
Rancho Cordova, California

**FROM:** Deanna L. Harding  
Gettler-Ryan Inc.  
6747 Sierra Court, Suite J  
Dublin, California 94568

**RE:** Former Unocal SS #2512  
1300 Davis Street  
San Leandro, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 31, 1999	Groundwater Monitoring and Sampling Report Third Quarter 1999 - Event of July 12, 1999

**COMMENTS:**

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **September 22, 1999**, this report will be distributed to the following:

Enclosure

cc: Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94501  
City of San Leandro, Development Services, 835 E. 14th Street, San Leandro, CA 94577

agency/2512rab qmt



# GETTLER - RYAN INC.

August 31, 1999  
G-R Job #280036

Mr. Robert A. Boust  
Unocal - DBG/AMG  
2121 North California Boulevard, Suite 250  
Walnut Creek, California 94596

RE: Third Quarter 1999 Groundwater Monitoring & Sampling Report  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Dear Mr. Boust:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On July 12, 1999, field personnel monitored and sampled four wells (MW-3, MW-7, MW-8, and MW-9) at the above referenced site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1, 2 and 3. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

*Deanna L. Harding*  
Deanna L. Harding  
Project Coordinator

*Stephen J. Carter*  
Stephen J. Carter  
Senior Geologist, R G. No. 5577

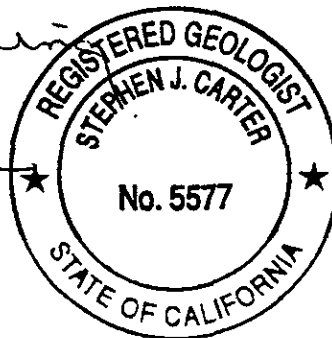
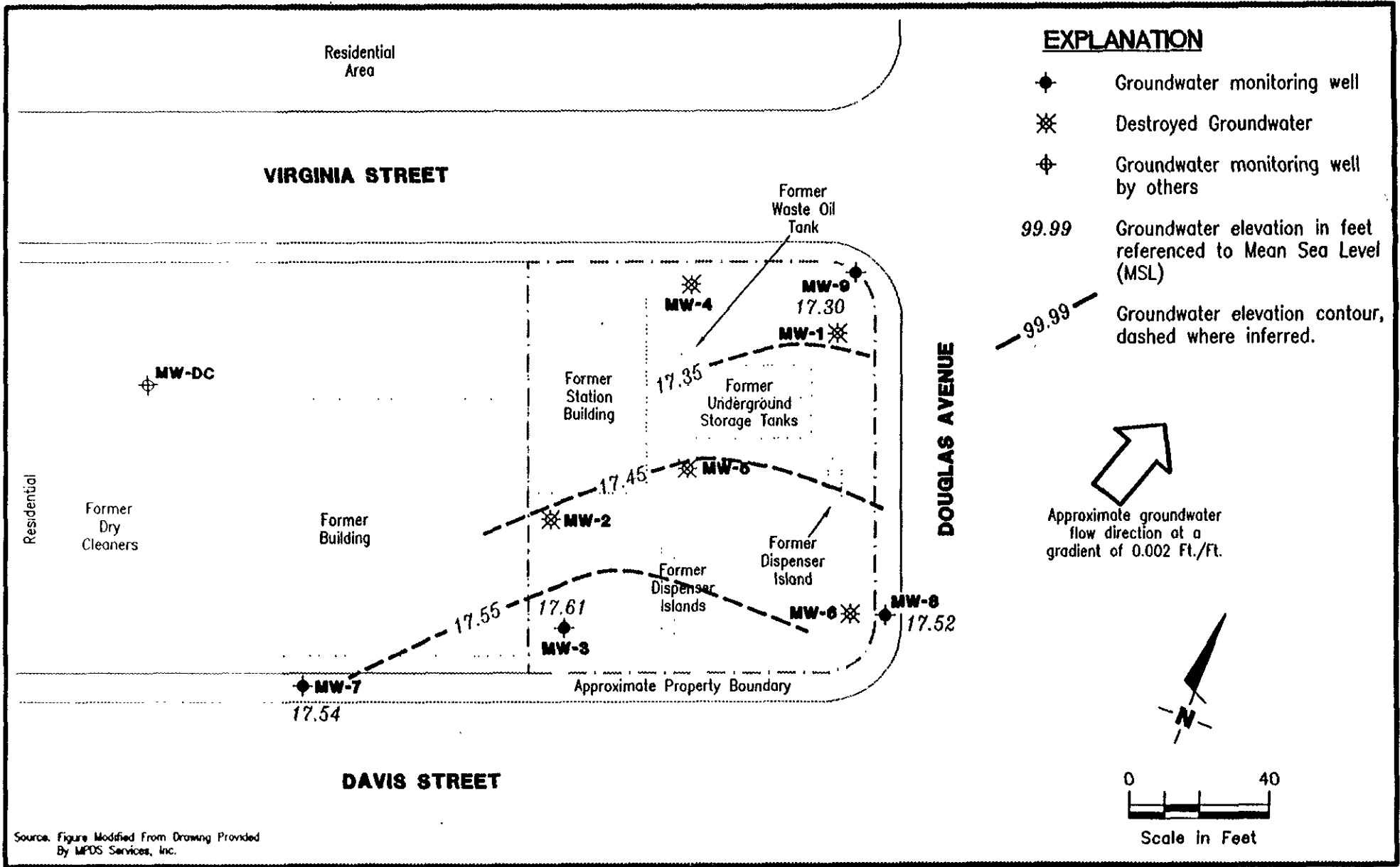


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results  
Table 3: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

2510 gpd



**EXPLANATION**

- ◆ Groundwater monitoring well
- ✱ Destroyed Groundwater
- ⊕ Groundwater monitoring well by others
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.002 Ft./Ft.



Source: Figure Modified From Drawing Provided By MPDS Services, Inc.



**Gettler - Ryan Inc.**

6747 Sierra Ct., Suite J (925) 551-7555  
Dublin, CA 94568

**POTENTIOMETRIC MAP**  
Former Unocal Service Station No. 2512  
1300 Davis Street  
San Leandro, California

FIGURE

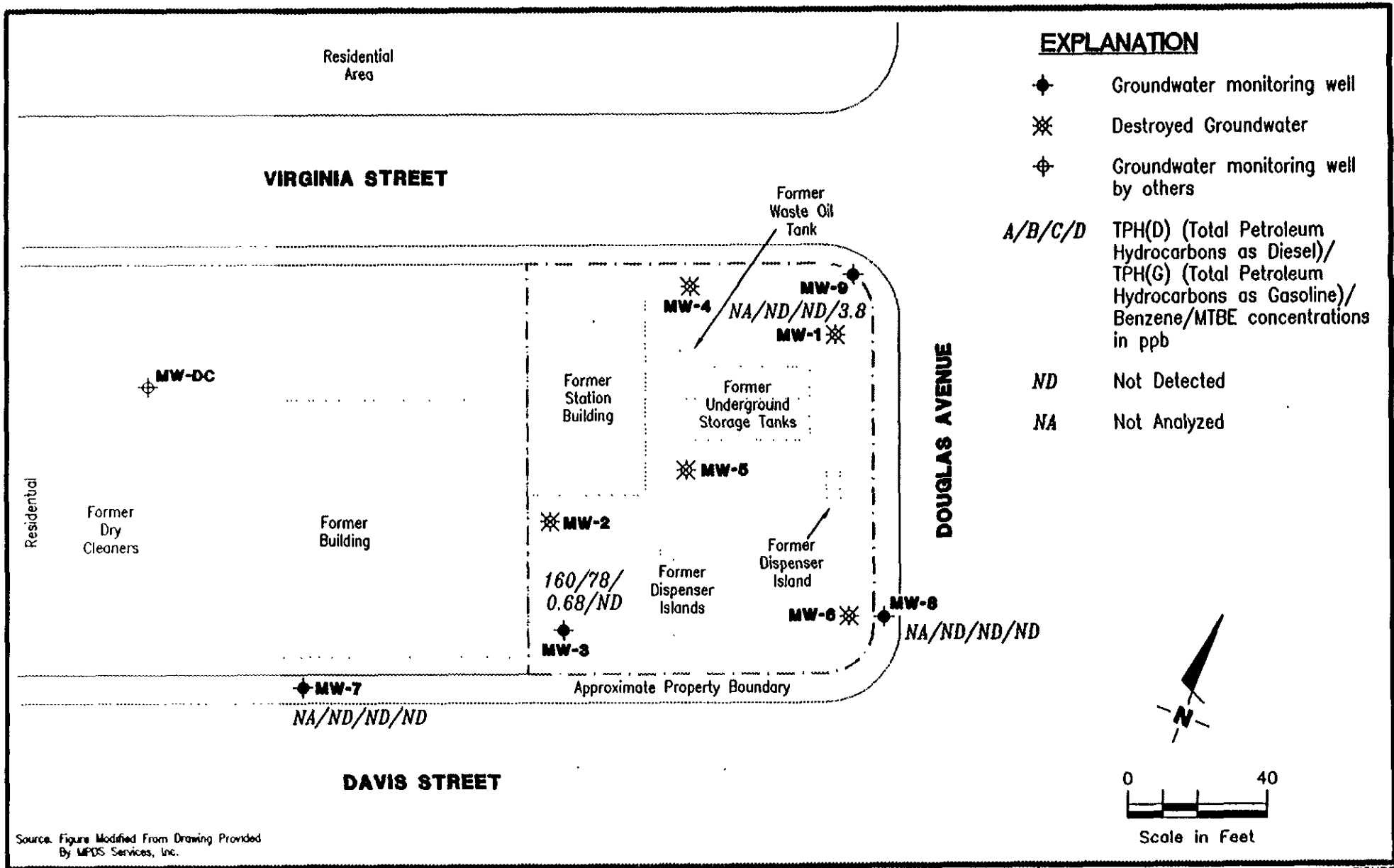
**1**

JOB NUMBER  
280036

REVIEWED BY

DATE  
July 12, 1999

REVISED DATE



**Gettler - Ryan Inc.**

6747 Sierra Ct., Suite J (925) 551-7555  
 Dublin, CA 94568

**CONCENTRATION MAP**

Former Unocal Service Station No. 2512  
 1300 Davis Street  
 San Leandro, California

FIGURE

**2**

JOB NUMBER  
 280036

REVIEWED BY

DATE  
 July 12, 1999

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product								
				Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-1	04/25/89	--	--	--	100	ND	0.31	ND	ND	ND	--	--
	08/10/89	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	11/21/89	--	--	--	ND	ND	ND	ND	ND	ND	--	8.9
	02/23/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	05/10/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	08/09/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	11/06/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	02/04/91	--	--	--	ND	ND	ND	0.31	ND	0.62	--	ND
	05/24/91	--	--	--	--	ND	ND	ND	ND	ND	--	ND
	08/15/91	--	--	--	--	--	--	--	--	--	--	--
100.00	09/18/91	17.88	82.12	0.00	--	--	--	--	--	--	--	--
	10/15/91	18.17	81.83	0.00	--	--	--	--	--	--	--	--
32.69	11/19/91	17.48	82.52	0.00	--	--	--	--	--	--	--	--
	02/27/92	15.36	17.33	0.00	--	--	--	--	--	--	--	--
	03/27/92	15.53	17.16	0.00	--	--	--	--	--	--	--	--
	04/27/92	15.68	17.01	0.00	--	--	--	--	--	--	--	--
	05/26/92	15.90	16.79	0.00	--	--	--	--	--	--	--	--
	06/23/92	16.25	16.44	0.00	--	--	--	--	--	--	--	--
	07/24/92	16.54	16.15	0.00	--	--	--	--	--	--	--	--
	10/30/92	16.58	16.11	0.00	--	--	--	--	--	--	--	--
	06/09/94	15.22	--	0.00	--	580 <sup>1</sup>	ND	ND	ND	ND	--	--
	09/08/94	15.81	--	0.00	--	160 <sup>2</sup>	ND	1.6	ND	3.1	--	--
01/25/95	DESTROYED	--	--	--	--	--	--	--	--	--	--	
MW-2	04/25/89	--	--	--	ND	32	0.35	ND	ND	ND	--	--
	08/10/89	--	--	--	ND	ND	ND	0.39	ND	ND	--	ND
	11/21/89	--	--	--	ND	48	ND	0.51	ND	ND	--	1.6
	02/23/90	--	--	--	ND	44	ND	ND	ND	ND	--	ND
	05/10/90	--	--	--	ND	43	ND	1	ND	ND	--	ND
	08/09/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	11/06/90	--	--	--	ND	ND	ND	0.42	ND	1.4	--	ND
	02/04/91	--	--	--	ND	ND	ND	0.38	ND	0.87	--	ND
	05/24/91	--	--	--	--	ND	1.5	ND	ND	ND	--	ND
	08/15/91	--	--	--	--	ND	ND	ND	ND	ND	--	ND
100.32	09/18/91	18.48	81.84	0.00	--	--	--	--	--	--	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product								
				Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-2	10/15/91	18.75	81.57	0.00	--	--	--	--	--	--	--	--
(cont)	11/19/91	18.01	82.31	0.00	--	220	2.5	8.4	2.4	14	--	--
33 04	02/27/92	15.40	17.64	0.00	--	330	12	12	10	93	--	--
	03/27/92	15.61	17.43	0.00	--	--	--	--	--	--	--	--
	04/27/92	15.96	17.08	0.00	--	--	--	--	--	--	--	--
	05/26/92	16.30	16.74	0.00	--	2,900	8.8	9.3	54	36	--	--
	06/23/92	16.76	16.28	0.00	--	--	--	--	--	--	--	--
	07/24/92	16.66	-- <sup>12</sup>	0.00	--	--	--	--	--	--	--	--
	10/30/92	17.38	-- <sup>12</sup>	0.00	--	1,200 <sup>1</sup>	ND	ND	ND	ND	--	--
	06/09/94	15.48	--	0.00	--	1,900 <sup>2</sup>	6.7	ND	66	ND	--	--
	09/08/94	16.22	--	0.00	--	3,000 <sup>1</sup>	ND	ND	ND	17	--	--
	01/25/95	DESTROYED	--	--	--	--	--	--	--	--	--	--
MW-3	04/25/89	--	--	--	5,700	56	ND	ND	0.31	0.49	--	--
	08/10/89	--	--	--	860	3,200	73	140	35	240	--	ND
	11/21/89	--	--	--	110	1,900	ND	ND	ND	ND	--	3.8
	02/23/90	--	--	--	350	ND	0.32	ND	ND	ND	--	1.3
	05/10/90	--	--	--	850	6,200	94	460	160	540	--	2.8
	08/09/90	--	--	--	500	1,900	56	140	140	31	--	ND
	11/06/90	--	--	--	940	16,000	820	1,500	2,200	770	--	ND
	02/04/91	--	--	--	NOT SAMPLED DUE TO A TRACE OF FREE PRODUCT						--	--
	05/24/91	--	--	--	2,000	23,000	940	3,400	590	2,600	--	ND
	08/15/91	--	--	--	NOT SAMPLED DUE TO A TRACE OF FREE PRODUCT						--	--
100 03	09/04/91	17.97	82.08***	0.03	--	--	--	--	--	--	--	--
	09/18/91	18.38	81.73***	0.10	--	--	--	--	--	--	--	--
	10/02/91	18.50	81.65***	0.16	--	--	--	--	--	--	--	--
	10/15/91	18.59	81.62***	0.24	--	--	--	--	--	--	--	--
	11/05/91	17.75	82.49***	0.27	--	--	--	--	--	--	--	--
	11/19/91	17.87	82.36***	0.26	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
32 73	02/27/92	14.98	17.82**	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	03/12/92	14.94	17.79	0.00	--	--	--	--	--	--	--	--
	03/27/92	15.12	17.61	0.00	--	--	--	--	--	--	--	--
	04/13/92	15.17	17.56	0.00	--	--	--	--	--	--	--	--
	04/27/92	15.58	17.17**	0.02	--	--	--	--	--	--	--	--
	05/11/92	15.84	16.92**	0.04	--	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product								
				Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-3	05/26/92	16.06	16.76**	0.12	2,400,000	1,300,000	5,100	66,000	20,000	160,000	--	880
(cont)	06/09/92	16.29	16.46**	0.03	--	--	--	--	--	--	--	--
	06/23/92	16.52	16.26**	0.06	--	--	--	--	--	--	--	--
	07/06/92	16.60	16.24**	0.14	--	--	--	--	--	--	--	--
	07/24/92	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--
	10/30/92	17.08	-- <sup>12</sup>	0.07	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	06/09/94	14.74	--	0.00	17,000 <sup>3</sup>	69,000	1,300	7,100	1,900	11,000	--	--
	09/08/94	15.54	--	Sheen	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
32.02	10/05/95	14.86	17.16	0.00	--	--	--	--	--	--	--	--
	10/21/95	14.98	17.04	0.00	5,900 <sup>3</sup>	50,000	250	4,200	1,700	18,000	-- <sup>5</sup>	--
	01/24/96	13.15	18.87	0.00	5,300 <sup>3</sup>	100,000	950	3,300	2,500	16,000	-- <sup>6</sup>	--
	04/23/96	13.11	18.91	0.00	4,900 <sup>3</sup>	50,000	430	1,700	1,600	7,600	ND	--
	07/25/96	14.40	17.62	0.00	2,400 <sup>4</sup>	17,000	170	ND	650	3,300	240	--
	10/25/96	15.33	16.69	0.00	3,700 <sup>4</sup>	26,000	420	1,100	1,800	6,400	340	--
	01/28/97	11.55	20.47	0.00	3,900 <sup>3</sup>	32,000	230	1,000	1,000	4,500	ND	--
	04/16/97	12.05	19.97	0.00	3,100 <sup>3</sup>	12,000	76	ND	330	1,600	ND	--
	07/21/97	15.17	16.85	0.00	2,400 <sup>3</sup>	10,000	82	28	430	1,400	76	--
	10/20/97	15.41	16.61	Sheen	2,900 <sup>4</sup>	12,000	200	540	1,400	4,600	210	--
	01/21/98 <sup>10</sup>	11.59	20.43	0.00	3,700 <sup>7</sup>	25,000	170	640	1,200	4,800	ND <sup>8</sup>	--
	04/17/98 <sup>10</sup>	12.46	19.56	0.00	3,400	25,000	980	1,400	5,800	ND <sup>8</sup>	ND <sup>8</sup>	--
	07/14/98 <sup>10</sup>	13.43	18.59	0.00	1,100 <sup>11</sup>	6,200	76	ND <sup>8</sup>	550	810	ND <sup>8</sup>	--
	10/12/98 <sup>10</sup>	14.60	17.42	0.00	420 <sup>13</sup>	1,600	28	ND <sup>8</sup>	28	81	ND <sup>8</sup>	--
	01/19/99 <sup>10</sup>	12.97	19.05	0.00	870 <sup>15</sup>	27,000 <sup>14</sup>	18	ND <sup>8</sup>	48	69	ND <sup>8</sup>	--
	04/07/99	12.36	19.66	0.00	ND	1,700	10	ND <sup>8</sup>	28	72	<sup>8</sup> ND/4.7 <sup>16</sup>	ND
	07/12/99	14.41	17.61	0.00	160 <sup>17</sup>	78	0.68	ND	ND	2.4	ND	--
MW-4	08/29/89	--	--	--	120	ND	ND	ND	ND	ND	--	ND
	11/21/89	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	02/23/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	05/10/90	--	--	--	88	54	ND	2	ND	0.37	--	ND
	08/09/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	11/06/90	--	--	--	ND	ND	ND	0.36	ND	0.98	--	ND
	02/04/91	--	--	--	ND	ND	ND	0.72	ND	1.1	--	ND



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-4	05/24/91	--	--	--	ND	ND	0.64	ND	ND	ND	--	ND
(cont)	08/15/91	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
99 66	09/18/91	17.67	81.99	0.00	--	--	--	--	--	--	--	--
	10/15/91	17.95	81.71	0.00	--	--	--	--	--	--	--	--
	11/19/91	17.25	82.41	0.00	ND	ND	ND	ND	ND	ND	--	--
32.38	02/27/92	14.96	17.42	0.00	ND	43	ND	1	0.37	2.5	--	--
	03/27/92	15.01	17.37	0.00	--	--	--	--	--	--	--	--
	04/27/92	15.37	17.01	0.00	--	--	--	--	--	--	--	--
	05/26/92	15.62	16.76	0.00	ND	120	0.59	0.82	ND	1.9	--	--
	06/23/92	16.02	16.36	0.00	--	--	--	--	--	--	--	--
	07/24/92	16.10	-- <sup>12</sup>	0.00	--	--	--	--	--	--	--	--
	10/30/92	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--
	06/09/94	15.08	--	0.00	ND	780 <sup>1</sup>	ND	ND	ND	ND	--	--
	09/08/94	15.72	--	0.00	ND	300 <sup>1</sup>	ND	ND	ND	ND	--	--
	01/25/95	DESTROYED	--	--	--	--	--	--	--	--	--	--
MW-5	08/29/89	--	--	--	100	ND	ND	0.94	0.3	ND	--	ND
	11/21/89	--	--	--	70	ND	ND	ND	ND	ND	--	ND
	02/23/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	05/10/90	--	--	--	83	ND	ND	ND	ND	0.31	--	ND
	08/09/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	11/06/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	02/04/91	--	--	--	ND	ND	ND	0.35	ND	ND	--	ND
	05/24/91	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
100 32	09/18/91	18.30	82.02	0.00	--	--	--	--	--	--	--	--
	10/15/91	18.59	81.73	0.00	--	--	--	--	--	--	--	--
	11/19/91	17.87	82.45	0.00	--	--	--	--	--	--	--	--
33 02	02/27/92	15.50	17.52	0.00	--	--	--	--	--	--	--	--
	03/27/92	15.68	17.34	0.00	--	--	--	--	--	--	--	--
	04/27/92	15.96	17.06	0.00	--	--	--	--	--	--	--	--
	05/26/92	16.22	16.80	0.00	--	--	--	--	--	--	--	--
	06/23/92	16.63	16.39	0.00	--	--	--	--	--	--	--	--
	07/24/92	16.73	-- <sup>12</sup>	0.00	--	--	--	--	--	--	--	--
	10/30/92	INACCESSIBLE	--	0.00	--	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product								
				Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-5 (cont)	06/09/94	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--
	09/08/94	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--
	01/25/95	DESTROYED	--	--	--	--	--	--	--	--	--	--
MW-6	08/29/89	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	11/21/89	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	02/23/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	05/10/90	--	--	--	ND	ND	ND	1.2	ND	ND	--	ND
	08/09/90	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	11/06/90	--	--	--	ND	ND	1.6	0.35	ND	ND	--	ND
	02/04/91	--	--	--	ND	ND	ND	ND	ND	ND	--	ND
	05/24/91	--	--	--	--	ND	ND	ND	ND	ND	--	ND
	08/15/91	--	--	--	--	ND	ND	ND	ND	ND	--	ND
100 50	09/18/91	18.34	82.16	0.00	--	--	--	--	--	--	--	--
	10/15/91	18.65	81.85	0.00	--	--	--	--	--	--	--	--
	11/19/91	17.94	82.56	0.00	--	ND	ND	ND	ND	ND	--	--
33 19	02/27/92	15.70	17.49	0.00	--	ND	3.2	ND	ND	3.8	--	--
	03/27/92	15.56	17.63	0.00	--	--	--	--	--	--	--	--
	04/27/92	16.07	17.12	0.00	--	--	--	--	--	--	--	--
	05/26/92	16.34	16.85	0.00	--	ND	ND	ND	ND	0.65	--	--
	06/23/92	16.70	16.49	0.00	--	--	--	--	--	--	--	--
	07/24/92	17.00	16.19	0.00	--	--	--	--	--	--	--	--
	10/30/92	17.07	16.12	0.00	--	ND	ND	ND	ND	ND	--	--
	06/09/94	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--
	09/08/94	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--
	01/25/95	DESTROYED	--	--	--	--	--	--	--	--	--	--
MW-7	32 09	02/27/92	15.12	16.97	0.00	--	38	ND	0.97	0.69	4	--
		03/27/92	14.26	17.83	0.00	--	--	--	--	--	--	--
		04/27/92	14.86	17.23	0.00	--	--	--	--	--	--	--
		05/26/92	15.30	16.79	0.00	--	ND	ND	ND	ND	0.6	--
		06/23/92	15.80	16.29	0.00	--	--	--	--	--	--	--
		07/24/92	16.26	15.83	0.00	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product								
				Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-7	10/30/92	16.31	15.78	0.00	--	ND	ND	ND	ND	ND	--	--
(cont)	06/09/94	14.43	--	0.00	--	610 <sup>1</sup>	ND	ND	ND	ND	--	--
	09/08/94	15.32	--	0.00	--	ND	ND	1.3	ND	1.6	--	--
31.71	10/21/95	14.74	16.97	0.00	--	ND	ND	ND	ND	ND	--	--
	01/24/96	12.50	19.21	0.00	--	ND	ND	ND	ND	ND	--	--
	04/23/96	12.48	19.23	0.00	--	220	ND	0.62	0.88	5.4	ND	--
	07/25/96	14.30	17.41	0.00	--	ND	ND	ND	ND	ND	ND	--
	10/25/96	15.13	16.58	0.00	--	ND	ND	ND	ND	ND	ND	--
	01/28/97	10.41	21.30	0.00	--	ND	ND	ND	ND	ND	ND	--
	04/16/97	12.12	19.59	0.00	--	ND	ND	ND	ND	ND	ND	--
	07/21/97	15.01	16.70	0.00	--	ND	ND	ND	ND	ND	ND	--
	10/20/97	15.18	16.53	0.00	--	ND	ND	ND	ND	ND	ND	--
	01/21/98	10.46	21.25	0.00	--	ND	ND	ND	ND	ND	ND	--
	04/17/98	11.57	20.14	0.00	--	ND	ND	ND	ND	ND	ND	--
	07/14/98	13.10	18.61	0.00	--	ND	ND	ND	ND	ND	ND	--
	10/12/98	14.22	17.49	0.00	--	ND	ND	ND	ND	ND	ND	--
	01/19/99	12.12	19.59	0.00	--	ND	ND	ND	ND	ND	ND	--
	04/07/99	11.47	20.24	0.00	--	ND	ND	ND	ND	ND	ND/ND <sup>16</sup>	--
	07/12/99	14.17	17.54	0.00	--	ND	ND	ND	ND	ND	ND	--
MW-8												
32.73	10/05/95	15.56	17.17	0.00	--	--	--	--	--	--	--	--
	10/21/95	15.65	17.08	0.00	--	ND	ND	ND	ND	ND	--	--
	01/24/96	14.51	18.22	0.00	--	ND	ND	ND	ND	ND	--	--
	04/23/96	15.70	17.03	0.00	--	ND	ND	ND	ND	ND	ND	--
	07/25/96	15.10	17.63	0.00	--	ND	ND	ND	ND	ND	ND	--
	10/25/96	15.96	16.77	0.00	--	ND	ND	ND	ND	ND	ND	--
	01/28/97	13.86	18.87	0.00	--	ND	ND	ND	ND	ND	ND	--
	04/16/97	12.74	19.99	0.00	--	ND	ND	ND	ND	ND	ND	--
	07/21/97	15.71	17.02	0.00	--	ND	ND	ND	ND	ND	ND	--
	10/20/97	15.98	16.75	0.00	--	ND	ND	ND	ND	ND	ND	--
	01/21/98	14.20	18.53	0.00	--	ND	ND	ND	ND	ND	ND	--
	04/17/98	14.40	18.33	0.00	--	ND	ND	ND	ND	ND	ND	--
	07/14/98	14.85	17.88	0.00	--	ND	ND	ND	ND	ND	ND	--
	10/12/98	15.86	16.87	0.00	--	ND	ND	ND	ND	ND	ND	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product		B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
				Thickness (ft.)	TPH(D) (ppb)						
MW-8	01/19/99	14.69	18.04	0.00	--	ND	ND	ND	ND	ND	--
(cont)	04/07/99	13.88	18.85	0.00	--	ND	ND	ND	ND	ND/ND <sup>16</sup>	--
	07/12/99	15.21	17.52	0.00	--	ND	ND	ND	ND	ND	--
<b>MW-9</b>											
32 33	10/05/95	15.27	17.06	0.00	--	--	--	--	--	--	--
	10/21/95	15.59	16.74	0.00	--	ND	ND	ND	ND	-- <sup>5</sup>	--
	01/24/96	14.28	18.05	0.00	--	ND	ND	ND	ND	-- <sup>6</sup>	--
	04/23/96	14.60	17.73	0.00	--	ND	ND	ND	ND	ND	--
	07/25/96	15.05	17.28	0.00	--	ND	ND	ND	ND	ND	--
	10/25/96	15.66	16.67	0.00	--	ND	ND	ND	ND	180	--
	01/28/97	13.76	18.57	0.00	--	ND	ND	ND	ND	75	--
	04/16/97	12.66	19.67	0.00	--	ND	ND	ND	ND	ND	--
	07/21/97	15.44	16.89	0.00	--	ND	ND	ND	ND	ND	--
	10/20/97	15.67	16.66	0.00	--	ND	ND	ND	ND	100	--
	01/21/98	13.97	18.36	0.00	--	ND	ND	ND	ND	140	--
	04/17/98	14.38	17.95	0.00	--	56 <sup>9</sup>	ND	ND	ND	18	--
	07/14/98	14.87	17.46	0.00	--	ND	ND	ND	ND	6.6	--
	10/12/98	15.19	17.14	0.00	--	ND	ND	ND	ND	16	--
	01/19/99	14.54	17.79	0.00	--	ND	ND	ND	ND	30	--
	04/07/99	13.62	18.71	0.00	--	ND	ND	ND	ND	6.9/6.4 <sup>16</sup>	--
	07/12/99	15.03	17.30	0.00	--	ND	ND	ND	ND	3.8	--
<b>Trip Blank</b>											
TB-1B	01/21/98	--	--	--	--	ND	ND	ND	ND	ND	--
	04/17/98	--	--	--	--	ND	ND	ND	ND	ND	--
	07/14/98	--	--	--	--	ND	ND	ND	ND	ND	--
	10/12/98	--	--	--	--	ND	ND	ND	ND	ND	--
	01/19/99	--	--	--	--	ND	ND	ND	ND	ND	--
	04/07/99	--	--	--	--	ND	ND	ND	ND	ND	--
	07/12/99	--	--	--	--	ND	ND	ND	ND	ND	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory results prior to January 21, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing elevation

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

msl = Relative to mean sea level

TPH(D) = Total Petroleum Hydrocarbons as Diesel

TPH(G) = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

TOG = Total Oil & Grease

MTBE = Methyl tertiary butyl ether

ppb = Parts per billion

ppm = Parts per million

ND = Not Detected

-- = Not Measured/Not Analyzed

\* TOC elevations are relative to msl, per East Bay MUD Benchmark DAVIS FREE #2 - San Leandro 1952 (Elevation = 32.02 feet msl). Prior to October 5, 1993, the DTW measurements were taken from top of well covers. Prior to February 27, 1992, the DTW measurements were surveyed assuming well cover MW-1 100 feet as datum.

\*\* Groundwater elevation corrected due to presence of free product; correction factor  $[(TOC-DTW) + (Product\ Thickness \times 0.75)]$ .

\*\*\* Groundwater elevation corrected due to presence of free product; correction factor  $[(TOC-DTW) + (Product\ Thickness \times 0.77)]$ .

<sup>1</sup> Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.

<sup>2</sup> Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

<sup>3</sup> Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

<sup>4</sup> Laboratory report indicates the hydrocarbons detected did not appear to be diesel.

<sup>5</sup> Laboratory has potentially identified the presence of MTBE at reportable levels in the sample collected from this well.

<sup>6</sup> Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well. Free product was detected in well MW-3, however, a water sample was collected and analyzed to determine if the product was predominantly hydrocarbon based.

<sup>7</sup> Laboratory report indicates unidentified hydrocarbons C9-C24.

<sup>8</sup> Detection limit raised Refer to analytical results.

<sup>9</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.

<sup>10</sup> Purged additional 100 gallons from well after sampling.

<sup>11</sup> Laboratory report indicates unidentified hydrocarbons <C14.

<sup>12</sup> Christy box for this well was damaged during tank removal and soil excavation at the site; therefore, GWE could not be accurately determined.

<sup>13</sup> Laboratory report indicates a non diesel mix <C17.

<sup>14</sup> Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.

<sup>15</sup> Laboratory report indicates unidentified hydrocarbons <C20.

<sup>16</sup> MTBE by EPA Method 8260.

<sup>17</sup> Laboratory report indicates discrete peaks.

**Table 2**  
**Groundwater Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID	Date	PCE (ppb)	1,1-DCA (ppb)	1,1,1-TCA (ppb)	Chloro- methane (ppb)	1,1-DCE (ppb)	1,2-DCB (ppb)	TCE (ppb)
MW-1	04/25/89	3.3	ND	ND	ND	ND	ND	0.55
	11/06/90	4.8	ND	ND	ND	ND	ND	ND
	05/24/91	4.6	ND	ND	ND	ND	ND	ND
	06/09/94	1.0	ND	ND	ND	ND	ND	ND
	09/08/94	1.2	ND	ND	ND	ND	ND	ND
	01/25/95	DESTROYED	--	--	--	--	--	--
MW-2	04/25/89	0.68	ND	ND	ND	ND	ND	ND
	11/06/90	ND	ND	ND	ND	ND	ND	ND
	05/24/91	ND	ND	ND	ND	ND	ND	ND
	08/15/91	ND	ND	ND	ND	ND	ND	ND
	11/19/91	ND	ND	ND	ND	ND	ND	ND
	02/27/92	ND	ND	ND	ND	ND	ND	ND
	05/26/92	ND	ND	ND	ND	ND	ND	ND
	10/30/92	ND	ND	ND	ND	ND	ND	ND
	06/09/94	ND	ND	ND	ND	ND	ND	ND
	09/08/94	ND	ND	ND	ND	ND	ND	ND
01/25/95	DESTROYED	--	--	--	--	--	--	
MW-3	04/25/89	1.0	ND	ND	ND	ND	ND	ND
	11/06/90	ND	ND	ND	ND	ND	ND	ND
	05/24/91	ND	ND	ND	ND	ND	ND	ND
	08/15/91	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--
	11/19/91	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--
	02/27/92	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--
	05/26/92	ND	ND	ND	ND	ND	ND	ND
	10/30/92	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--
	06/09/94	ND	ND	ND	ND	ND	ND	ND
	09/08/94	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--
	10/21/95	ND	ND	ND	ND	ND	ND	ND
	01/24/96	ND	ND	ND	ND	ND	ND	ND
	04/23/96	ND	ND	ND	ND	ND	ND	ND
07/25/96	ND	ND	ND	ND	ND	ND	ND	

**Table 2**  
**Groundwater Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID	Date	PCE (ppb)	1,1-DCA (ppb)	1,1,1-TCA (ppb)	Chloro- methane (ppb)	1,1-DCE (ppb)	1,2-DCB (ppb)	TCE (ppb)
MW-3 (cont)	10/25/96	ND	ND	ND	ND	ND	ND	ND
	01/28/97	ND	ND	ND	ND	ND	ND	ND
	04/16/97	ND	ND	ND	ND	ND	ND	ND
	07/21/97	ND	ND	ND	ND	ND	ND	ND
	10/20/97	ND	ND	ND	ND	ND	ND	ND
	01/21/98	ND	ND	ND	ND	ND	ND	ND
	04/17/98	ND	ND	ND	ND	ND	ND	ND
	07/14/98	0.55	ND	ND	ND	ND	ND	ND
	10/12/98	0.51	ND	ND	ND	ND	ND	ND
	01/19/99	ND	ND	ND	ND	ND	ND	ND
	04/07/99	0.54	ND	ND	ND	ND	ND	ND
	07/12/99	ND	ND	ND	ND	ND	ND	ND
MW-4	11/06/90	2.9	ND	ND	ND	ND	ND	ND
	05/24/91	4.1	2.5	3.9	ND	ND	ND	ND
	08/15/91	3.6	ND	ND	ND	ND	ND	ND
	11/19/91	3.4	ND	ND	ND	ND	ND	ND
	02/27/92	3.5	6	ND	ND	ND	ND	ND
	05/26/92	2.4	13	3.5	ND	0.83	ND	ND
	10/30/92	INACCESSIBLE	--	--	--	--	--	--
	06/09/94	2.8	8.8	0.83	ND	0.51	ND	0.70
	09/08/94 <sup>1</sup>	1.8	ND	ND	ND	ND	ND	0.60
	01/25/95	DESTROYED	--	--	--	--	--	--
MW-5	11/06/90	0.7	ND	ND	ND	ND	ND	ND
	05/24/91	0.89	ND	ND	ND	ND	ND	ND
	06/09/94	INACCESSIBLE	--	--	--	--	--	--
	09/08/94	INACCESSIBLE	--	--	--	--	--	--
	01/25/95	DESTROYED	--	--	--	--	--	--
MW-6	11/06/90	1.2	ND	ND	ND	ND	ND	ND
	05/24/91	0.88	ND	ND	5.6	ND	ND	ND

**Table 2**  
**Groundwater Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID	Date	PCE (ppb)	1,1-DCA (ppb)	1,1,1-TCA (ppb)	Chloro- methane (ppb)	1,1-DCE (ppb)	1,2-DCB (ppb)	TCE (ppb)
MW-6	08/15/91	1.2	ND	ND	ND	ND	ND	ND
(cont)	11/19/91	1.3	ND	ND	ND	ND	ND	ND
	02/27/92	1.5	ND	ND	ND	ND	1.6	ND
	05/26/92	1.1	ND	ND	ND	ND	1.7	ND
	10/30/92	1.2	ND	ND	ND	ND	ND	ND
	06/09/94	INACCESSIBLE	--	--	--	--	--	--
	09/08/94	INACCESSIBLE	--	--	--	--	--	--
	01/25/95	DESTROYED	--	--	--	--	--	--
MW-7	02/27/92	2.4	ND	ND	ND	ND	ND	ND
	05/26/92	2.2	ND	ND	ND	ND	ND	ND
	10/30/92	2.2	ND	ND	ND	ND	ND	ND
	06/09/94	0.67	ND	ND	ND	ND	ND	ND
	09/08/94	0.76	ND	ND	ND	ND	ND	ND
	10/21/95	ND	ND	ND	ND	ND	ND	ND
	01/24/96	1.2	ND	ND	ND	ND	ND	ND
	04/23/96	0.84	ND	ND	ND	ND	ND	ND
	07/25/96	1.7	ND	ND	ND	ND	ND	ND
	10/25/96 <sup>2</sup>	1.2	ND	ND	ND	ND	ND	ND
	01/28/97	1.4	ND	ND	ND	ND	ND	ND
	04/19/97	0.75	ND	ND	ND	ND	ND	ND
	07/21/97	1.5	ND	ND	ND	ND	ND	ND
	10/20/97	1.5	ND	ND	ND	ND	ND	ND
	01/21/98	1.2	ND	ND	ND	ND	ND	ND
	04/17/98	0.76	ND	ND	ND	ND	ND	ND
	07/14/98	1.4	ND	ND	ND	ND	ND	ND
	10/12/98	1.4	ND	ND	ND	ND	ND	ND
	01/19/99	1.3	ND	ND	ND	ND	ND	ND
	04/07/99 <sup>3</sup>	1.6	ND	ND	ND	ND	ND	ND
	07/12/99	1.1	ND	ND	ND	ND	ND	ND
MW-8	10/21/95	ND	ND	ND	ND	ND	ND	ND
	01/24/96	0.74	ND	ND	ND	ND	ND	ND



**Table 2**  
**Groundwater Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID	Date	PCE (ppb)	1,1-DCA (ppb)	1,1,1-TCA (ppb)	Chloro- methane (ppb)	1,1-DCE (ppb)	1,2-DCB (ppb)	TCE (ppb)
MW-8	04/23/96	1.1	ND	ND	ND	ND	ND	ND
(cont)	07/25/96	1.1	ND	ND	ND	ND	ND	ND
	10/25/96	0.90	ND	ND	ND	ND	ND	ND
	01/28/97	0.96	ND	ND	ND	ND	ND	ND
	04/16/97	0.51	ND	ND	ND	ND	ND	ND
	07/21/97	ND	ND	ND	ND	ND	ND	ND
	10/20/97	1.1	ND	ND	ND	ND	ND	ND
	01/21/98	0.77	ND	ND	ND	ND	ND	ND
	04/17/98	ND	ND	ND	ND	ND	ND	ND
	07/14/98	1.3	ND	ND	ND	ND	ND	ND
	10/12/98	1.5	ND	ND	ND	ND	ND	ND
	01/19/99	0.71	ND	ND	ND	ND	ND	ND
	04/07/99 <sup>4</sup>	1.0	ND	ND	ND	ND	ND	ND
	07/12/99	0.66	ND	ND	ND	ND	ND	ND
MW-9	10/21/95	17	1.0	ND	ND	ND	ND	ND
	01/24/96	17	2.2	ND	ND	ND	ND	0.64
	04/23/96	71	ND	ND	ND	ND	ND	ND
	07/25/96	1.0	ND	ND	ND	ND	ND	ND
	10/25/96	80	ND	ND	ND	ND	ND	ND
	01/28/97	39	ND	ND	ND	ND	ND	ND
	04/16/97	0.51	ND	ND	ND	ND	ND	ND
	07/21/97	7.5	ND	ND	ND	ND	ND	ND
	10/20/97	47	ND	ND	ND	ND	ND	ND
	01/21/98	22	0.73	ND	ND	ND	ND	0.50
	04/17/98	120	ND	ND	ND	ND	ND	ND
	07/14/98	110	ND	ND	ND	ND	ND	0.72
	10/12/98	46	ND	ND	ND	ND	ND	ND
	01/19/99	38	0.72	ND	ND	ND	ND	0.54
	04/07/99	41	ND	ND	ND	ND	ND	0.64
	07/12/99	26	ND	ND	ND	ND	ND	ND

**Table 2**  
**Groundwater Analytical Results**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

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**EXPLANATIONS:**

Groundwater analytical results prior to January 21, 1998, were compiled from reports prepared by MPDS Services, Inc.

PCE = Tetrachloroethene

1,1-DCA = 1,1-Dichloroethane

1,1,1-TCA = 1,1,1-Trichloroethane

1,1-DCE = 1,1-Dichloroethene

1,2-DCB = 1,2-Dichlorobenzene

TCE = Trichloroethene

ppb = Parts per billion

-- = Not Analyzed

ND = Not Detected

<sup>1</sup> 1,2-Dichloroethane (1,2 DCA) was detected at a concentration of 4.8 ppb.

<sup>2</sup> Chloroform was detected at a concentration of 1.7 ppb.

<sup>3</sup> Chloroform was detected at a concentration of 0.68 ppb.

<sup>4</sup> Chloroform was detected at a concentration of 0.53 ppb.

All EPA Method 8010 constituents were ND, except as indicated.

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Unocal Service Station #2512  
1300 Davis Street  
San Leandro, California

Well ID	Date	Ethanol (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
MW-3	04/07/99	ND	ND	4.7	ND	ND	ND	ND	ND
MW-7	04/07/99	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	04/07/99	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	04/07/99	ND	ND	6.4	ND	ND	ND	ND	ND

**EXPLANATIONS:**

TBA = Tertiary Butyl Alcohol  
MTBE = Methyl Tertiary Butyl Ether  
DIPE = Di-isopropyl Ether  
ETBE = Ethyl Tertiary Butyl Ether  
TAME = Tertiary Amyl Methyl Ether  
EDB = 1,2-Dibromoethane  
1,2-DCA = 1,2-Dichloroethane  
ppb = Parts per billion  
ND = Not Detected

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Unocal Corporation, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Facility # 2512 Job#: 280036  
 Address: 1300 Davis st. Date: 7-12-99  
 City: Sau Leandro Sampler: Joe

Well ID MW-3 Well Condition: O.K.  
 Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)  
 Total Depth 33.20 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water 14.41 ft. Factor (VF) 6" = 1.50 12" = 5.80

$18.79 \times VF \ 0.17 = 3.19 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 10 \text{ (gal.)}$

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: 8:15 Weather Conditions: clear  
 Sampling Time: 11:00 AM Water Color: clear Odor: yes  
 Purging Flow Rate: 1 gpm. Sediment Description: none  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:25</u>	<u>3.5</u>	<u>7.36</u>	<u>3.11</u>	<u>70.5</u>			
<u>8:27</u>	<u>7</u>	<u>7.45</u>	<u>3.14</u>	<u>71.0</u>			
<u>8:30</u>	<u>10</u>	<u>7.39</u>	<u>3.17</u>	<u>71.2</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 Vol A</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>"</u>	<u>2 Vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>8010</u>
<u>"</u>	<u>1 Amb.</u>		<u>-</u>	<u>"</u>	<u>TPHD</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Facility # 2512 Job#: 280036  
 Address: 1300 Davis st. Date: 7-12-99  
 City: San Leandro Sampler: Joc

Well ID MW-7 Well Condition: O.K.  
 Well Diameter 2 in. Hydrocarbon Amount Bailed  
 Thickness: 0 (feet) (product/water): 0 (Gallons)  
 Total Depth 29.70 ft.  
 Depth to Water 14.17 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

15.53 X VF 0.17 = 2.64 X 3 (case volume) = Estimated Purge Volume: 8 (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: 7:15 Weather Conditions: clear  
 Sampling Time: 9:30 AM Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: none  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{hos/cm} \times 100$	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:20</u>	<u>2.5</u>	<u>7.68</u>	<u>8.85</u>	<u>71.3</u>			
<u>7:23</u>	<u>5</u>	<u>7.51</u>	<u>8.80</u>	<u>72.2</u>			
<u>7:25</u>	<u>8</u>	<u>7.32</u>	<u>8.92</u>	<u>72.1</u>			
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 Vol A</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(GI)/brax/mtbe</u>
	<u>2 Vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>8010</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 2512 Job#: 280036  
 Address: 1300 Davis st. Date: 7-12-99  
 City: Sau Leandro Sampler: Joe

Well ID MW-8 Well Condition: O.K.  
 Well Diameter 2 in. Hydrocarbon Amount Bailed  
 Thickness: 0 (feet) (product/water): 0 (Gallons)  
 Total Depth 29.90 ft.  
 Depth to Water 15.21 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.69 x VF 0.17 = 2.50 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 7:35 Weather Conditions: clear  
 Sampling Time: 10:00 A.M. Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: none  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^5$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:45</u>	<u>2.5</u>	<u>7.42</u>	<u>8.11</u>	<u>71.5</u>			
<u>7:47</u>	<u>5</u>	<u>7.17</u>	<u>7.96</u>	<u>72.2</u>			
<u>7:50</u>	<u>7.5</u>	<u>7.15</u>	<u>7.85</u>	<u>73.0</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 vol A</u>	<u>Y</u>	<u>HCL</u>	<u>SECUCIA</u>	<u>TPH(G)/btax/mtbe</u>
	<u>2 vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>8010</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # 2512  
Address: 1300 Davis st.  
City: Sau Leandro

Job#: 280036  
Date: 7-12-99  
Sampler: Joe

Well ID: MW-9  
Well Diameter: 2 in.  
Total Depth: 30.00 ft.  
Depth to Water: 15.03 ft.

Well Condition: O.K.

Hydrocarbon Thickness:	Amount Bailed (Gallons)		
	(feet)	(product/water):	
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.97 x VF 0.17 = 2.54 x 3 (case volume) = Estimated Purge Volume: 8 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 8:00 Weather Conditions: clear  
Sampling Time: 10:25 A.M. Water Color: clear Odor: none  
Purging Flow Rate: 1 gpm. Sediment Description: none  
Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^3$	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:05</u>	<u>3</u>	<u>7.42</u>	<u>10.05</u>	<u>71.2</u>			
<u>8:07</u>	<u>5</u>	<u>7.61</u>	<u>9.36</u>	<u>71.5</u>			
<u>8:09</u>	<u>2</u>	<u>7.53</u>	<u>9.31</u>	<u>71.8</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3 Vol A</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHIG/btex/mtbe</u>
	<u>2 Vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>8010</u>

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# UNOCAL 76

680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600  
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600

18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200  
 East 11115 Montgomery, Suite B • Spokane, WA 99208 • (509) 924-9200  
 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Consultant Company: <u>Gettler-Ryan Inc.</u>		Project Name: <u>Former Unocal SS# 2512</u>	
Address: <u>6747 Sierra Ct. Suite J</u>		UNOCAL Project Manager: <u>Mr. Bob Boust</u>	
City: <u>Dublin</u>	State: <u>CA</u>	Zip Code: <u>94568</u>	AFE #:
Telephone: <u>(510) 551-7555</u>		FAX #:	
Report To: <u>Deanna Harding</u>		Sampler: <u>Joe</u>	
		Site #, City, State: <u>1300 Davis St. San Leandro</u>	
QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A			

Turnaround  10 Work Days  5 Work Days  3 Work Days  
 Time:  2 Work Days  1 Work Day  2-8 Hours

CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure

Drinking Water  
 Waste Water  
 Other

**Analyses Requested**

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Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #														Comments
1. <u>TB-LB</u>	<u>7-12-99</u>	<u>W</u>	<u>1</u>	<u>VOA</u>		<input checked="" type="checkbox"/>													<u>Pleased out bill</u>
2. <u>MW-3</u>	<u>" 11:00 A.M.</u>	<u>/</u>	<u>5</u>	<u>VOA Amb.</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<u>TB-LB analyses.</u>
3. <u>MW-7</u>	<u>" 9:30 A.M.</u>	<u>/</u>	<u>5</u>	<u>VOA</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
4. <u>MW-8</u>	<u>" 10:00 A.M.</u>	<u>/</u>	<u>5</u>	<u>VOA</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
5. <u>MW-9</u>	<u>" 10:25 A.M.</u>	<u>/</u>	<u>5</u>	<u>VOA</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
6.																			
7.																			
8.																			
9.																			
10.																			

Relinquished By: <u>Joe</u>	Date: <u>7-12-99</u>	Time: <u>2:15 PM</u>	Received By: <u>RB</u>	Date: <u>07/29/99</u>	Time: <u>4:15</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: _____	Date: _____	Time: _____

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client

Yellow - Laboratory

White - Laboratory



Gettier-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Attention: Deanna Harding	Client Project ID: Unocal SS#2512, San Leandro Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 907-0853	Sampled: Jul 12, 1999 Received: Jul 12, 1999 Reported: Jul 26, 1999
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## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 907-0853 TB-LB	Sample I.D. 907-0854 MW-3	Sample I.D. 907-0855 MW-7	Sample I.D. 907-0856 MW-8	Sample I.D. 907-0857 MW-9
Purgeable Hydrocarbons	50	N.D.	78	N.D.	N.D.	N.D.
Benzene	0.50	N.D.	0.68	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	2.4	N.D.	N.D.	N.D.
MTBE	2.5	N.D.	N.D.	N.D.	N.D.	3.8
Chromatogram Pattern:		--	Gasoline	--	--	--

### Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	7/19/99	7/20/99	7/19/99	7/19/99	7/19/99
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	95	99	98	98	96

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

SEQUOIA ANALYTICAL #1271

Julianne Fegley  
Project Manager



Gettier-Ryan - Dublin	Client Project ID: Unocal SS#2512, San Leandro	Sampled: Jul 12, 1999
6747 Sierra Court, Suite J	Sample Matrix: Water	Received: Jul 12, 1999
Dublin, CA 94568	Analysis Method: EPA 3510/8015 Mod.	Reported: Jul 26, 1999
Attention: Deanna Harding	First Sample #: 907-0854	

**TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS**

Analyte	Reporting Limit µg/L	Sample I.D. 907-0854 MW-3
Extractable Hydrocarbons	50	160

Chromatogram Pattern: Discrete Peaks

**Quality Control Data**

Report Limit Multiplication Factor:	1.0
Date Extracted:	7/19/99
Date Analyzed:	7/19/99
Instrument Identification:	HP-3A

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

SEQUOIA ANALYTICAL, #1271

*Julianne Fegley*  
Julianne Fegley  
Project Manager



Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Attention: Deanna Harding	Client Project ID: Unocal SS#2512, San Leandro Sample Descript: Water, MW-3 Analysis Method: EPA 5030/8010 Lab Number: 907-0854	Sampled: Jul 12, 1999 Received: Jul 12, 1999 Analyzed: Jul 15, 1999 Reported: Jul 26, 1999
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## 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.....	1.0	N.D.
Carbon tetrachloride.....	0.50	N.D.
Chlorobenzene.....	0.50	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	0.50	N.D.
Chloromethane.....	1.0	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	N.D.
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.....	1.0	N.D.
<b>Surrogates</b>	<b>Control Limit %</b>	<b>% Recovery</b>
Dibromodifluoromethane.....	50 150.....	141
4-Bromofluorobenzene.....	50 150.....	73

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

SEQUOIA ANALYTICAL, #1271

*Julianne Fegley*  
Julianne Fegley  
Project Manager





Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Attention: Deanna Harding	Client Project ID: Unocal SS#2512, San Leandro Sample Descript: Water, MW-7 Analysis Method: EPA 5030/8010 Lab Number: 907-0855	Sampled: Jul 12, 1999 Received: Jul 12, 1999 Analyzed: Jul 15, 1999 Reported: Jul 26, 1999
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**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.....	1.0	N.D.	
Carbon tetrachloride.....	0.50	N.D.	
Chlorobenzene.....	0.50	N.D.	
Chloroethane.....	1.0	N.D.	
Chloroform.....	0.50	N.D.	
Chloromethane.....	1.0	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.	
<b>Tetrachloroethene.....</b>	<b>0.50</b>	<b>1.1</b>	
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.....	1.0	N.D.	
<b>Surrogates</b>			
Dibromodifluoromethane.....	50	150	147
4-Bromofluorobenzene.....	50	150	77

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

SEQUOIA ANALYTICAL, #1271

*Julianne Fegley*  
Julianne Fegley  
Project Manager



Gettier-Ryan - Dublin	Client Project ID: Unocal SS#2512, San Leandro	Sampled: Jul 12, 1999
6747 Sierra Court, Suite J	Sample Descript: Water, MW-8	Received: Jul 12, 1999
Dublin, CA 94568	Analysis Method: EPA 5030/8010	Analyzed: Jul 15, 1999
Attention: Deanna Harding	Lab Number: 907-0856	Reported: Jul 26, 1999

## 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.....	1.0	N.D.
Carbon tetrachloride.....	0.50	N.D.
Chlorobenzene.....	0.50	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	0.50	N.D.
Chloromethane.....	1.0	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.
<b>Tetrachloroethene.....</b>	<b>0.50</b>	<b>0.66</b>
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.....	1.0	N.D.
<b>Surrogates</b>		
	<b>Control Limit %</b>	<b>% Recovery</b>
Dibromodifluoromethane.....	50 150.....	141
4-Bromofluorobenzene.....	50 150.....	71

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

SEQUOIA ANALYTICAL, #1271

*Julianne Fegley*  
Julianne Fegley  
Project Manager





Gettler-Ryan - Dublin	Client Project ID: Unocal SS#2512, San Leandro	Sampled: Jul 12, 1999
6747 Sierra Court, Suite J	Sample Descript: Water, MW-9	Received: Jul 12, 1999
Dublin, CA 94568	Analysis Method: EPA 5030/8010	Analyzed: Jul 15, 1999
Attention: Deanna Harding	Lab Number: 907-0857	Reported: Jul 26, 1999

**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.....	1.0	N.D.
Carbon tetrachloride.....	0.50	N.D.
Chlorobenzene.....	0.50	N.D.
Chloroethane.....	1.0	N.D.
Chloroform.....	0.50	N.D.
Chloromethane.....	1.0	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.
<b>Tetrachloroethene.....</b>	<b>0.50</b>	<b>26</b>
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.....	1.0	N.D.
<b>Surrogates</b>		
Dibromodifluoromethane.....	50 Control Limit %	150 % Recovery
4-Bromofluorobenzene.....	50	150 92

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

SEQUOIA ANALYTICAL, #1271

*Julianne Fegley*  
Julianne Fegley  
Project Manager





Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Attention: Deanna Harding	Client Project ID: Unocal SS#2512, San Leandro Matrix: Liquid QC Sample Group: 9070853-857	Reported: Jul. 26, 1999
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## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes
Batch#:	9071006	9071006	9071006	9071006
Date Prepared:	7/19/99	7/19/99	7/19/99	7/19/99
Date Analyzed:	7/19/99	7/19/99	7/19/99	7/19/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	100	95	95	107
Matrix Spike Duplicate % Recovery:	100	90	90	103
Relative % Difference:	0.0	5.4	5.4	3.2

LCS Batch#:	2LCS071999	2LCS071999	2LCS071999	2LCS071999
Date Prepared:	7/19/99	7/19/99	7/19/99	7/19/99
Date Analyzed:	7/19/99	7/19/99	7/19/99	7/19/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	105	95	100	108

% Recovery Control Limits:	Benzene	Toluene	Ethyl Benzene	Xylenes
	70-130	70-130	70-130	70-130

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.

SEQUOIA ANALYTICAL, #1271  
*Julianne Fegley*  
Julianne Fegley  
Project Manager





Gettler-Ryan - Dublin  
6747 Sierra Court, Suite J  
Dublin, CA 94568  
Attention: Deanna Harding

Client Project ID: Unocal SS#2512, San Leandro  
Matrix: Liquid

QC Sample Group: 9070853-857

Reported: Jul 26, 1999

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes
Batch#:	9071003	9071003	9071003	9071003
Date Prepared:	7/20/99	7/20/99	7/20/99	7/20/99
Date Analyzed:	7/20/99	7/20/99	7/20/99	7/20/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	100	90	100	103
Matrix Spike Duplicate % Recovery:	100	90	100	102
Relative % Difference:	0.0	0.0	0.0	1.6

LCS Batch#:	2LCS072099	2LCS072099	2LCS072099	2LCS072099
Date Prepared:	7/20/99	7/20/99	7/20/99	7/20/99
Date Analyzed:	7/20/99	7/20/99	7/20/99	7/20/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	95	90	90	102

% Recovery Control Limits:	70-130	70-130	70-130	70-130
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**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.

SEQUOIA ANALYTICAL, #1271

*Julianne Fegley*  
Julianne Fegley  
Project Manager





Gettier-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Attention: Deanna Harding	Client Project ID: Unocal SS#2512, San Leandro Matrix: Liquid QC Sample Group: 9070853-857	Reported: Jul 26, 1999
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## QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Diesel
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8015M.
Analyst:	P. Kosovskaya	P. Kosovskaya	P. Kosovskaya	N. VanSiambrook

MS/MSD Batch#:	9070649	9070649	9070649	BLK071999
Date Prepared:	7/15/99	7/15/99	7/15/99	7/19/99
Date Analyzed:	7/15/99	7/15/99	7/15/99	7/19/99
Instrument I.D.#:	HP-6	HP-6	HP-6	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	500 µg/L
Matrix Spike % Recovery:	60	85	75	84
Matrix Spike Duplicate % Recovery:	60	70	70	90
Relative % Difference:	-	-	-	6.9

LCS Batch#:	LCS071599	LCS071599	LCS071599	LCS071999
Date Prepared:	7/15/99	7/15/99	7/15/99	7/19/99
Date Analyzed:	7/15/99	7/15/99	7/15/99	7/19/99
Instrument I.D.#:	HP-6	HP-6	HP-6	HP-3A
LCS % Recovery:	90	85	80	68

% Recovery Control Limits:	65-135	70-130	70-130	60-140
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**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.

SEQUOIA ANALYTICAL, #1271

*Julianne Fegley*  
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