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**IT Corporation**

1921 Ringwood Avenue  
San Jose, CA 95131-1721  
Tel. 408.453.7300  
Fax. 408.437.9526

A Member of The IT Group



July 18, 2001  
Project 311-127.1A

Mr. Chuck Headlee  
Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, California 94612

JUL 24 2001

Re: 76 Service Station 5367  
Quarterly Summary Report  
Second Quarter 2001

ST ID 758 SOS

Dear Mr. Headlee:

As directed by Mr. David DeWitt of Tosco Marketing Company, IT Corporation (IT) is forwarding the quarterly summary report for the following location:

Service Station

Location

5367

500 Bancroft Avenue, San Leandro

Should you have questions or comments, please do not hesitate to contact our office at (408) 453-7300.

Sincerely,

**IT Corporation**

Timothy L. Ripp  
Project Geologist

Enclosure

cc: Mr. David DeWitt, Tosco Marketing Company  
Ms. Amy Leech, Alameda County Health Care Services

## Quarterly Summary Report Second Quarter 2001

76 Service Station 5367  
500 Bancroft Avenue  
San Leandro, California

City/County ID #: None  
County: Alameda

### BACKGROUND

The underground fuel storage tanks, product dispensers, and associated underground piping were replaced in 1987. The underground product piping was replaced again in October and November 1998. There are currently five on-site groundwater monitoring wells and five off-site groundwater monitoring wells in use at the site. Soil vapor extraction and groundwater extraction systems were operated at the site from to March 1996 to March 1997, removing an estimated 108 pounds of gasoline hydrocarbons.

### RECENT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities performed in March 2001 were reported in April 2001.

### NEXT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities will be performed in September 2001.

### CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved groundwater delineated? Yes.

Free product delineated? Not applicable.

Total amount of groundwater contaminant recovered? Approximately 108 pounds.

Soil remediation in progress? No.

Start? March 1996.

Completion date? March 1997.

Dissolved/free product remediation in progress? No.

Start? March 1996.

Completion? March 1997.

**CONSULTANT:** IT Corporation



# GETTLER-RYAN INC.

## TRANSMITTAL

April 30, 2001  
G-R #: 180108

MAY 18 2001

TO: Mr. David B. De Witt  
Tosco Marketing Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94583

CC: Mr. Tim Ripp  
IT Corporation  
1921 Ringwood Avenue  
San Jose, California 95131

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

RE: Tosco (Unocal) SS #5367  
500 Bancroft Avenue  
San Leandro, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 19, 2001	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of March 16, 2001

### 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 **May 14, 2001**, this report will be distributed to the following:

cc: Mr. Scott Seery, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502  
Mr. Michael Bakaldin, City of San Leandro Fire Department, 835 East 14th Street, San Leandro, CA 94577

Enclosure

trans/5367dbd.qmt



# GETTLER-RYAN INC.

April 19, 2001  
G-R Job #180108

Mr. David B. De Witt  
Tosco Marketing Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94583

**RE: First Semi-Annual Event of March 16, 2001**  
Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

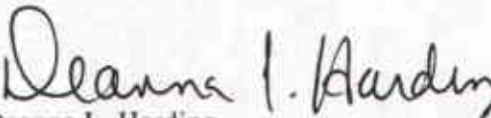
Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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. Dissolved Oxygen Concentrations are summarized in Table 3. 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 Table 1 and 2. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

  
Deanna L. Harding  
Project Coordinator

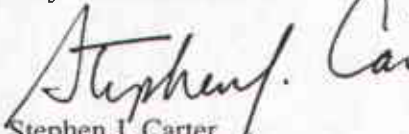
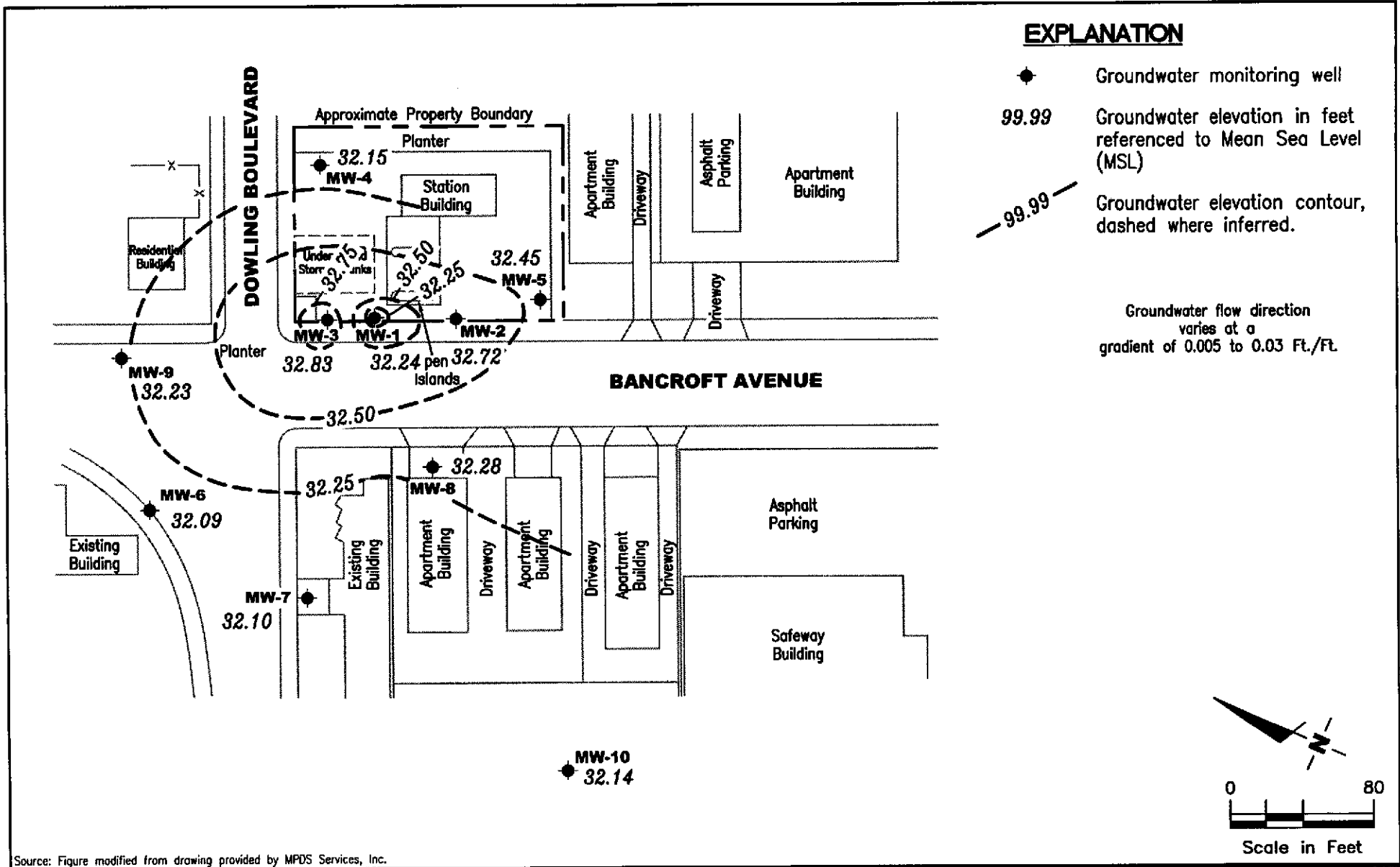
  
Stephen J. Carter  
Senior Geologist, R.G. No. 5577



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

5367.qml



Source: Figure modified from drawing provided by MPDS Services, Inc.

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

**POTENTIOMETRIC MAP**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

FIGURE

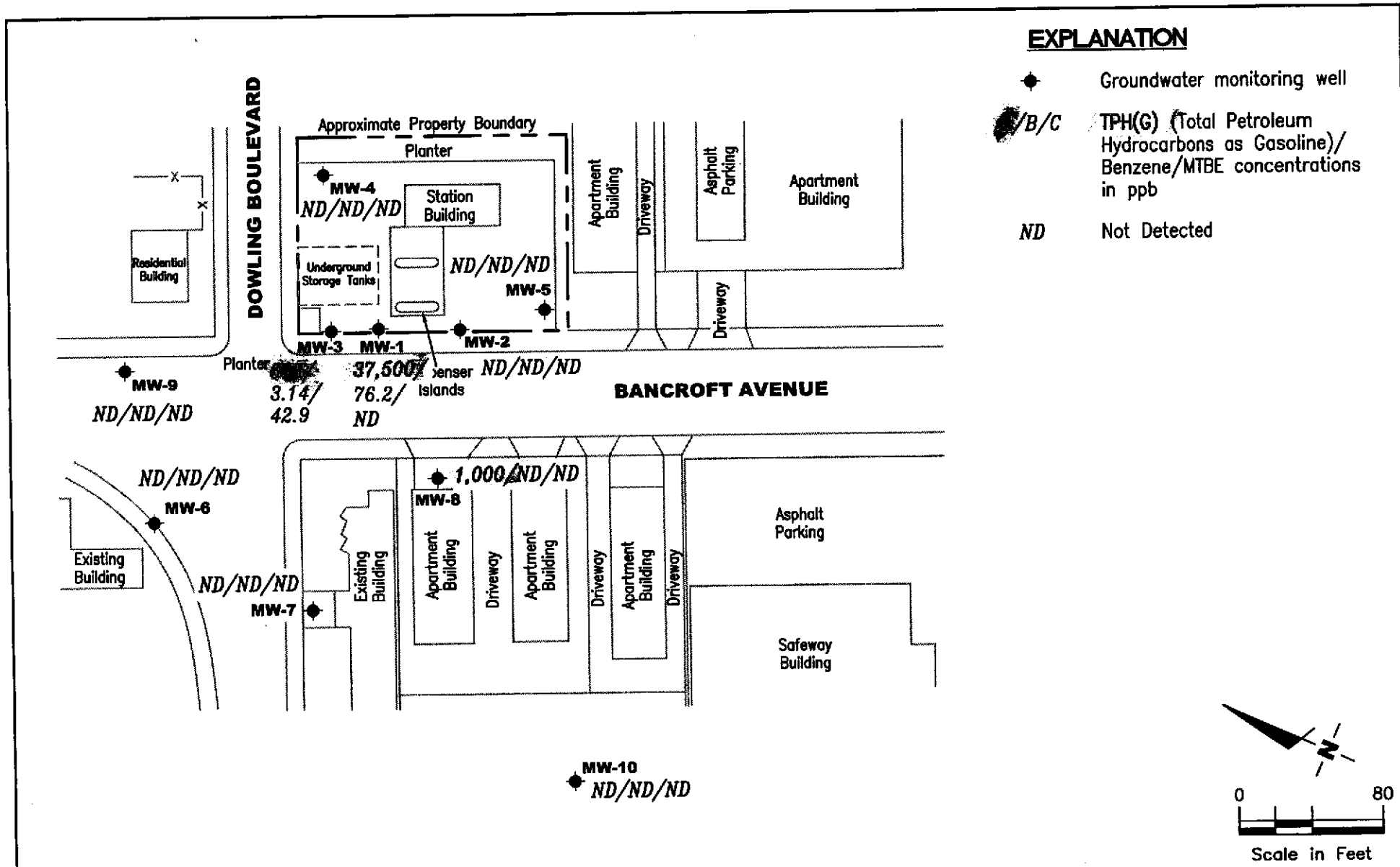
1

PROJECT NUMBER  
180108

REVIEWED BY

DATE  
March 16, 2001

REVISED DATE



Source: Figure modified from drawing provided by MPDS Services, Inc.

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

**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

FIGURE

2

PROJECT NUMBER  
 180108

REVIEWED BY

DATE  
 March 16, 2001

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
57.83	09/23/87	33.40	24.43**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	09/24/87	33.24	24.59**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	10/06/87	33.39	24.44**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	11/05/87	34.14	23.69**	0.31	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	11/13/87	34.15	23.68**	0.38	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	11/19/87	33.89	23.94**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	04/27/88	32.40	25.43**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	09/07/88	DRY	--	--	--	--	--	--	--	--
	10/03/88	DRY	--	--	--	--	--	--	--	--
	01/27/89	DRY	--	--	--	--	--	--	--	--
	02/16/90	DRY	--	--	--	--	--	--	--	--
	07/19/90	DRY	--	--	--	--	--	--	--	--
	08/24/90	DRY	--	--	--	--	--	--	--	--
	11/30/90	DRY	--	--	--	--	--	--	--	--
	02/06/91	DRY	--	--	--	--	--	--	--	--
	05/06/91	33.00	24.83	0.00	--	--	--	--	--	--
	09/27/91	DRY	--	--	--	--	--	--	--	--
	03/31/92	31.00	26.83	0.00	330,000	8,200	33,000	6,800	36,000	--
	06/18/92	32.76	25.07	0.00	680,000	9,000	40,000	7,600	44,000	--
	10/16/92	DRY	--	--	--	--	--	--	--	--
	11/18/92	DRY	--	--	--	--	--	--	--	--
	03/03/93	26.03	31.80	0.00	330,000	3,800	21,000	4,200	24,000	--
	06/25/93	28.36	29.47	0.00	160,000	4,300	36,000	5,800	34,000	--
	09/03/93	30.80	27.03	0.00	160,000	3,900	41,000	6,800	38,000	--
	12/13/93	32.73	25.10	0.00	140,000	3,600	37,000	7,100	40,000	--
	03/18/94	30.10	27.73	0.00	99,000	3,800	37,000	6,800	36,000	--
	06/23/94	31.32	26.51	0.00	150,000	2,500	33,000	6,400	37,000	--
	09/21/94	33.21	24.62	0.00	110,000	2,500	23,000	4,500	25,000	--
	12/19/94	30.97	26.86	0.00	200,000	2,400	28,000	6,600	37,000	--
	03/27/95	22.77	35.06	0.00	88,000	1,500	20,000	4,200	25,000	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	06/26/95	25.69	32.14	0.00	130,000	1,000	23,000	5,600	33,000	--
(cont)	07/28/95	26.97	30.86	0.00	--	--	--	--	--	--
	09/28/95	29.55	28.28	0.00	100,000	810	21,000	6,500	37,000	--
	10/24/95	29.99	27.84	0.00	--	--	--	--	--	--
	12/29/95	30.40	27.43	0.00	110,000	990	22,000	8,300	47,000	--
	03/27/96	22.29	35.54	0.00	120,000	920	17,000	7,100	41,000	180
	09/21/96	29.44	28.39	0.00	110,000	270	3,500	5,900	16,000	260
	03/31/97	24.18	33.65	0.00	82,000	240	8,700	3,800	23,000	ND
	09/27/97	31.86	25.97	0.00	81,000	ND	1,000	5,900	31,000	ND
	03/20/98	16.88	40.95	0.00	52,000	ND <sup>5</sup>	350	2,900	14,000	ND <sup>5</sup>
	09/09/98	26.21	31.62	0.00	59,000	51	64	6,000	4,800	ND <sup>5</sup>
	03/11/99	23.60	34.23	0.00	60,000	130	ND <sup>5</sup>	2,900	12,000	ND <sup>5</sup>
	09/08/99	28.70	29.13	0.00	74,000 <sup>7</sup>	ND <sup>5</sup>	ND <sup>5</sup>	2,600	10,000	ND <sup>5</sup>
	03/24/00	21.61	36.22	0.00	37,000 <sup>7</sup>	ND <sup>5</sup>	ND <sup>5</sup>	1,980	6,880	ND <sup>5</sup>
	09/15/00	28.19	29.64	0.00	45,800 <sup>9</sup>	ND <sup>5</sup>	ND <sup>5</sup>	3,150	10,500	ND <sup>5</sup>
	<b>03/16/01</b>	<b>25.59</b>	<b>32.24</b>	<b>0.00</b>	<b>37,500</b>	<b>76.2</b>	<b>16.6</b>	<b>2,010</b>	<b>7,330</b>	<b>ND</b>
MW-2										
58.13	10/03/88	36.04	22.09	0.00	1,760	47.8	7.4	20.9	81.6	--
	01/27/89	34.77	23.36	0.00	510	58	8.7	22.6	20.3	--
	02/16/90	34.50	23.63	0.00	840	50	0.5	28	44	--
	05/01/90	--	--	--	1,000	39	ND	32	52	--
	07/19/90	35.72	22.41	0.00	--	--	--	--	--	--
	08/24/90	36.30	21.83	0.00	330	17	ND	19	20	--
	11/30/90	37.40	20.73	0.00	400	41	ND	39	37	--
	02/07/91	37.27	20.86	0.00	510	40	ND	29	44	--
	05/06/91	33.31	24.82	0.00	2,300	150	10	52	110	--
	09/27/91	36.86	21.27	0.00	110	2.6	ND	5.6	5.1	--
	12/27/91	37.66	20.47	0.00	170	3.9	ND	7.3	60	--
	03/31/92	37.66	20.47	0.00	--	--	--	--	--	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	06/18/92	31.27	26.86	0.00	1,200	35	1.6	56	26	--
(cont)	09/30/92	--	--	--	820	21	ND	42	25	--
	10/16/92	35.87	22.26	0.00	--	--	--	--	--	--
	11/18/92	36.24	21.89	0.00	65	1.2	ND	2.8	1.4	--
	03/03/93	26.30	31.83	0.00	4,200	62	2.9	97	120	--
	06/25/93	28.40	29.73	0.00	4,000	110	ND	320	280	--
	09/03/93	31.10	27.03	0.00	1,400	31	4.3	99	53	--
	12/13/93	33.03	25.10	0.00	260	7.7	0.83	17	23	--
	03/18/94	30.34	27.79	0.00	250	6.4	0.64	28	24	--
	06/23/94	31.63	26.50	0.00	420	3.9	0.66	23	11	--
	09/21/94	33.52	24.61	0.00	ND	ND	ND	ND	ND	--
	12/19/94	31.26	26.87	0.00	190	1.9	ND	15	6.8	--
	03/27/95 <sup>2</sup>	23.02	35.11	0.00	ND	ND	0.55	1.2	2.5	--
	06/26/95	25.98	32.15	0.00	ND	ND	0.93	0.88	3.4	--
	07/28/95	27.26	30.87	0.00	--	--	--	--	--	--
	09/28/95	29.77	28.36	0.00	730	2.9	ND	41	29	--
	10/24/95	30.56	27.57	0.00	--	--	--	--	--	--
	12/29/95	30.25	27.88	0.00	860	4.3	1.0	27	50	--
	03/27/96	22.30	35.83	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)				--	--
	09/21/96	29.47	28.66	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)				--	--
	03/31/97	24.20	33.93	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.07	27.06	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	16.73	41.40	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.03	32.10	0.00	ND	ND	0.54	ND	0.57	ND
	03/11/99	23.46	34.67	0.00	ND	ND	0.59	ND	1.1	ND
	09/08/99	28.53	29.60	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	21.45	36.68	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	28.02	30.11	0.00	ND	ND	ND	ND	ND	ND
	<b>03/16/01</b>	<b>25.41</b>	<b>32.72</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3										
57.92	10/03/88	35.86	22.06	0.00	61,000	1,060	3,380	1,520	8,720	--
	01/27/89	34.60	23.32	0.00	39,000	1,570	2,830	1,250	7,070	--
	02/16/90	35.23	22.69	0.00	22,000	710	4,100	6,900	33,000	--
	05/01/90	--	--	--	19,000	330	170	310	1,500	--
	07/19/90	35.50	22.42	0.00	--	--	--	--	--	--
	08/24/90	36.08	21.84	0.00	19,000	480	160	510	1,500	--
	11/30/90	37.17	20.75	0.00	13,000	390	81	410	1,000	--
	02/06/91	37.07	20.85	0.00	13,000	310	150	380	1,200	--
	05/06/91	33.11	24.81	0.00	39,000	1,000	570	930	3,900	--
	09/27/91	36.64	21.28	0.00	4,000	160	84	180	560	--
	12/27/91	37.46	20.46	0.00	31,000	240	280	400	1,600	--
	03/31/92	31.10	26.82	0.00	100,000	1,900	1,900	2,300	9,400	--
	06/18/92	32.83	25.09	0.00	180,000	2,200	1,700	2,300	1,100	--
	09/30/92	--	--	--	36,000	730	200	1,000	4,400	--
	10/16/92	35.66	22.26	0.00	--	--	--	--	--	--
	11/18/92	36.04	21.88	0.00	24,000 <sup>1</sup>	430	160	640	2,800	--
	03/03/93	26.11	31.81	0.00	96,000 <sup>1</sup>	1,400	1,900	1,400	8,400	--
	06/25/93	28.43	29.49	0.00	27,000	1,200	980	1,700	6,900	--
	09/03/93	30.88	27.04	0.00	82,000	2,400	3,400	4,200	21,000	--
	12/13/93	32.82	25.10	0.00	49,000	1,300	360	2,300	9,200	--
	03/18/94	30.17	27.75	0.00	22,000	1,200	430	2,200	9,700	--
	06/23/94	31.42	26.50	0.00	37,000	1,300	670	3,100	14,000	--
	09/21/94	33.30	24.62	0.00	24,000	890	110	2,200	8,800	--
	12/19/94	31.07	26.85	0.00	100,000	1,200	2,900	4,200	23,000	--
	03/27/95 <sup>2</sup>	22.78	35.14	0.00	33,000	410	66	1,600	6,500	--
	06/26/95	25.78	32.14	0.00	14,000	300	ND	1,300	3,900	--
	07/28/95	27.06	30.86	0.00	--	--	--	--	--	--
	09/28/95	29.57	28.35	0.00	17,000	730	30	4,000	8,800	-- <sup>3</sup>
	10/24/95	30.34	27.58	0.00	--	--	--	--	--	--
	12/29/95	29.91	28.01	0.00	55,000	700	ND	4,900	16,000	-- <sup>4</sup>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-3	03/27/96	21.99	35.93	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)					--	--
(cont)	09/21/96	29.15	28.77	0.00	34,000	140	ND	2,200	6,600	1,800	
	03/31/97	23.86	34.06	0.00	17,000	58	110	530	1,500	ND	
	09/27/97	30.76	27.16	0.00	11,000	19	ND	850	420	140	
	03/20/98	16.39	41.53	0.00	ND	ND	ND	ND	ND	74	
	09/09/98	25.70	32.22	0.00	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	
	03/11/99	23.12	34.80	0.00	7,300	ND	ND	320	210	ND	
	09/08/99	28.21	29.71	0.00	7,900 <sup>7</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	160	ND <sup>5</sup>	
	03/24/00	21.12	36.80	0.00	3,310 <sup>7</sup>	5.40	ND <sup>5</sup>	101	43.3	ND <sup>5</sup>	
	09/15/00	27.68	30.24	0.00	1,540 <sup>9</sup>	ND <sup>5</sup>	ND <sup>5</sup>	56.4	ND	ND/12.6 <sup>8</sup>	
	<b>03/16/01</b>	<b>25.09</b>	<b>32.83</b>	<b>0.00</b>	<b>678</b>	<b>3.14</b>	<b>1.00</b>	<b>16.4</b>	<b>14.6</b>	<b>42.9</b>	
<b>MW-4</b>											
58.29	10/03/88	36.12	22.17	0.00	ND	ND	ND	ND	ND	--	
	01/27/89	34.87	23.42	0.00	ND	ND	ND	ND	ND	--	
	02/16/90	35.60	22.69	0.00	ND	ND	ND	ND	ND	--	
	05/01/90	--	--	--	ND	ND	ND	0.68	1.4	--	
	07/19/90	35.78	22.51	0.00	--	--	--	--	--	--	
	08/24/90	36.35	21.94	0.00	ND	ND	ND	ND	ND	--	
	11/30/90	37.46	20.83	0.00	ND	ND	ND	ND	1.2	--	
	02/06/91	37.40	20.89	0.00	ND	ND	ND	ND	ND	--	
	05/06/91	33.39	24.90	0.00	--	--	--	--	--	--	
	09/27/91	36.90	21.39	0.00	ND	ND	ND	ND	ND	--	
	12/27/91	37.76	20.53	0.00	ND	ND	ND	ND	ND	--	
	03/31/92	31.41	26.88	0.00	ND	ND	ND	ND	ND	--	
	06/18/92	33.09	25.20	0.00	ND	ND	ND	ND	ND	--	
	10/16/92	35.92	22.37	0.00	ND	ND	ND	ND	ND	--	
	11/18/92	36.33	21.96	0.00	--	--	--	--	--	--	
	03/03/93	26.43	31.86	0.00	68	0.9	0.6	ND	1.9	--	
	06/25/93	28.60	29.69	0.00	--	--	--	--	--	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	09/03/93	31.05	27.24	0.00	86	14	13	1.4	7.1	--
(cont)	12/13/93	33.09	25.20	0.00	SAMPLED SEMI-ANNUALLY					--
	03/18/94	30.42	27.87	0.00	ND	ND	ND	ND	ND	--
	06/23/94	31.95	26.34	0.00	--	--	--	--	--	--
	09/21/94	33.86	24.43	0.00	ND	ND	0.78	ND	0.81	--
	12/19/94	31.72	26.57	0.00	--	--	--	--	--	--
	03/27/95	23.44	34.85	0.00	ND	ND	0.79	0.5	3.1	--
	06/26/95	26.26	32.03	0.00	--	--	--	--	--	--
	07/28/95	27.53	30.76	0.00	--	--	--	--	--	--
	09/28/95	30.05	28.24	0.00	ND	ND	ND	ND	ND	-- <sup>3</sup>
	10/24/95	30.79	27.50	0.00	--	--	--	--	--	--
	12/29/95	30.96	27.33	0.00	--	--	--	--	--	--
	03/27/96	22.71	35.58	0.00	ND	ND	0.70	ND	0.79	ND
	09/21/96	29.88	28.41	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	24.72	33.57	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.68	26.61	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	17.27	41.02	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.58	31.71	0.00	ND	ND	ND	ND	0.65	3.0
	03/11/99	24.12	34.17	0.00	ND	ND	0.70	ND	1.2	ND
	09/08/99	29.18	29.11	0.00	ND	ND	ND	ND	0.78	ND
	03/24/00	22.08	36.21	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	28.63	29.66	0.00	ND	ND	1.36	ND	1.46	ND
	<b>03/16/01</b>	<b>26.14</b>	<b>32.15</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product							
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-5											
58.50	02/16/90	35.89	22.61	0.00	67	0.51	1.6	2.9	7.5	--	
	05/01/90	--	--	--	ND	ND	ND	ND	ND	--	
	07/19/90	36.10	22.40	0.00	--	--	--	--	--	--	
	08/24/90	36.67	21.83	0.00	ND	ND	ND	ND	ND	--	
	11/30/90	37.74	20.76	0.00	ND	ND	0.7	ND	ND	--	
	02/06/91	37.62	20.88	0.00	ND	ND	ND	ND	ND	--	
	05/06/91	33.67	24.83	0.00	--	--	--	--	--	--	
	09/27/91	37.23	21.27	0.00	ND	ND	ND	ND	ND	--	
	12/27/91	38.02	20.48	0.00	ND	ND	ND	ND	ND	--	
	03/31/92	31.62	26.88	0.00	ND	ND	ND	ND	1.1	--	
	06/18/92	33.46	25.04	0.00	--	--	--	--	--	--	
	10/16/92	36.23	22.27	0.00	ND	ND	ND	ND	ND	--	
	11/18/92	36.62	21.88	0.00	--	--	--	--	--	--	
	03/03/93	26.62	31.88	0.00	ND	ND	ND	ND	ND	--	
	06/25/93	INACCESSIBLE	--	--	--	--	--	--	--	--	
	09/03/93	31.45	27.05	0.00	ND	ND	1.5	ND	7.9	--	
	12/13/93	33.39	25.11	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	
	03/18/94	30.67	27.83	0.00	ND	ND	ND	ND	ND	--	
	06/23/94	32.00	26.50	0.00	--	--	--	--	--	--	
	09/21/94	33.90	24.60	0.00	ND	ND	0.98	ND	1.6	--	
	12/19/94	31.63	26.87	0.00	--	--	--	--	--	--	
	03/27/95	23.44	35.06	0.00	ND	ND	0.66	ND	2.9	--	
	06/26/95	26.35	32.15	0.00	--	--	--	--	--	--	
	07/28/95	27.63	30.87	0.00	--	--	--	--	--	--	
	09/28/95	30.15	28.35	0.00	ND	ND	ND	ND	ND	--	
	10/24/95	30.98	27.52	0.00	--	--	--	--	--	--	
	12/29/95	30.87	27.63	0.00	--	--	--	--	--	--	
	03/27/96	22.75	35.75	0.00	ND	ND	1.7	ND	2.4	ND	
	09/21/96	29.95	28.55	0.00	ND	ND	ND	ND	ND	ND	
	03/31/97	24.80	33.70	0.00	ND	ND	ND	ND	ND	ND	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	09/27/97	31.65	26.85	0.00	ND	ND	ND	ND	ND	ND
(cont)	03/20/98	17.31	41.19	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.63	31.87	0.00	ND	ND	ND	ND	ND	ND
	03/11/99	24.08	34.42	0.00	ND	ND	0.96	ND	1.7	ND
	09/08/99	29.16	29.34	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	22.06	36.44	0.00	ND	ND	ND	ND	0.957	ND
	09/15/00	28.64	29.86	0.00	ND	ND	ND	ND	ND	ND
	<b>03/16/01</b>	<b>26.05</b>	<b>32.45</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>MW-6</b>										
56.96	02/16/90	34.50	22.46	0.00	ND	ND	ND	ND	ND	--
	05/01/90	--	--	--	ND	ND	ND	ND	ND	--
	07/19/90	34.74	22.22	0.00	ND	ND	ND	ND	ND	--
	08/24/90	35.32	21.64	0.00	ND	ND	ND	ND	ND	--
	11/30/90	36.38	20.58	0.00	ND	ND	ND	ND	ND	--
	02/06/91	36.27	20.69	0.00	ND	ND	ND	ND	ND	--
	05/06/91	32.41	24.55	0.00	--	--	--	--	--	--
	09/27/91	35.87	21.09	0.00	ND	ND	ND	ND	ND	--
	12/27/91	36.67	20.29	0.00	ND	ND	ND	ND	ND	--
	03/31/92	30.32	26.64	0.00	ND	ND	1.3	ND	2	--
	06/18/92	32.18	24.78	0.00	ND	ND	ND	ND	ND	--
	10/16/92	34.92	22.04	0.00	ND	ND	ND	ND	ND	--
	11/18/92	35.28	21.68	0.00	--	--	--	--	--	--
	03/03/93	25.43	31.53	0.00	ND <sup>1</sup>	ND	ND	ND	ND	--
	06/25/93	27.86	29.10	0.00	--	--	--	--	--	--
	09/03/93	30.25	26.71	0.00	ND	ND	ND	ND	ND	--
	12/13/93	32.14	24.82	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	03/18/94	29.46	27.50	0.00	ND	ND	0.93	ND	1.4	--
	06/23/94	30.76	26.20	0.00	--	--	--	--	--	--
	09/21/94	32.62	24.34	0.00	ND	ND	ND	ND	ND	--

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**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	12/19/94	30.32	26.64	0.00	--	--	--	--	--	--
(cont)	03/27/95	22.10	34.86	0.00	56	ND	0.65	ND	3.3	--
	06/26/95	25.20	31.76	0.00	--	--	--	--	--	--
	07/28/95	26.48	30.48	0.00	--	--	--	--	--	--
	09/28/95	28.92	28.04	0.00	ND	ND	ND	ND	ND	--
	10/24/95	29.73	27.23	0.00	--	--	--	--	--	--
	12/29/95	29.62	27.34	0.00	--	--	--	--	--	--
	03/27/96	21.59	35.37	0.00	50	ND	0.92	ND	0.96	ND
	09/21/96	28.72	28.24	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	23.72	33.24	0.00	73	0.67	0.82	ND	ND	ND
	09/27/97	30.52	26.44	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	16.35	40.61	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	25.53	31.43	0.00	ND	ND	0.64	ND	0.65	3.3
	03/11/99	22.85	34.11	0.00	ND	ND	0.71	ND	1.4	ND
	09/08/99	28.01	28.95	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	20.93	36.03	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	27.51	29.45	0.00	ND	ND	ND	ND	ND	ND
	<b>03/16/01</b>	<b>24.87</b>	<b>32.09</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
 MW-7										
57.25	02/16/90	35.75	21.50	0.00	ND	ND	ND	ND	ND	--
	05/01/90	--	--	--	24	ND	ND	0.74	1.7	--
	07/19/90	35.03	22.22	0.00	--	--	--	--	--	--
	08/24/90	35.64	21.61	0.00	ND	ND	ND	ND	ND	--
	11/30/90	36.68	20.57	0.00	ND	ND	ND	0.6	1.5	--
	02/06/91	36.55	20.70	0.00	ND	ND	ND	ND	ND	--
	05/06/91	32.69	24.56	0.00	ND	ND	ND	ND	ND	--
	09/27/91	36.18	21.07	0.00	ND	ND	ND	ND	ND	--
	12/27/91	36.96	20.29	0.00	ND	ND	ND	ND	ND	--
	03/31/92	30.56	26.69	0.00	ND	ND	ND	ND	0.9	--

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**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	06/18/92	32.52	24.73	0.00	--	--	--	--	--	--
(cont)	10/16/92	35.24	22.01	0.00	ND	ND	ND	ND	ND	--
	11/18/92	35.59	21.66	0.00	--	--	--	--	--	--
	03/03/93	25.66	31.59	0.00	ND	ND	ND	ND	ND	--
	06/25/93	28.25	29.00	0.00	--	--	--	--	--	--
	09/03/93	30.60	26.65	0.00	ND	ND	ND	ND	ND	--
	12/13/93	32.45	24.80	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	03/18/94	29.76	27.49	0.00	ND	ND	ND	ND	ND	--
	06/23/94	31.10	26.15	0.00	--	--	--	--	--	--
	09/21/94	32.96	24.29	0.00	ND	0.5	ND	ND	0.89	--
	12/19/94	30.60	26.65	0.00	--	--	--	--	--	--
	03/27/95	22.43	34.82	0.00	ND	ND	0.54	ND	1.9	--
	06/26/95	25.55	31.70	0.00	--	--	--	--	--	--
	07/28/95	26.84	30.41	0.00	--	--	--	--	--	--
	09/28/95	29.29	27.96	0.00	ND	ND	ND	ND	ND	-- <sup>3</sup>
	10/24/95	30.05	27.20	0.00	--	--	--	--	--	--
	12/29/95	29.91	27.34	0.00	--	--	--	--	--	--
	03/27/96	21.94	35.31	0.00	ND	ND	1.1	ND	1.7	ND
	09/21/96	29.07	28.18	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	24.02	33.23	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	30.84	26.41	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	16.68	40.57	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	25.89	31.36	0.00	ND	ND	ND	ND	ND	4.1
	03/11/99	23.16	34.09	0.00	ND	ND	0.91	ND	1.6	5.7
	09/08/99	28.32	28.93	0.00	ND	ND	ND	ND	ND	2.7
	03/24/00	21.23	36.02	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	27.83	29.42	0.00	ND	ND	ND	ND	ND	ND
	<b>03/16/01</b>	<b>25.15</b>	<b>32.10</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-8</b>										
57.71	02/16/90	35.10	22.61	0.00	1,900	11	ND	52	55	--
	05/01/90	--	--	--	770	6.5	ND	20	32	--
	07/19/90	35.41	22.30	0.00	--	--	--	--	--	--
	08/24/90	36.00	21.71	0.00	990	13	ND	48	66	--
	11/30/90	37.08	20.63	0.00	570	13	ND	45	36	--
	02/06/91	36.92	20.79	0.00	630	9.6	ND	35	36	--
	05/06/91	33.03	24.68	0.00	14,000	80	ND	250	550	--
	09/27/91	36.55	21.16	0.00	720	13	4.3	26	26	--
	12/27/91	37.34	20.37	0.00	1,600	15	2.9	40	49	--
	03/31/92	31.93 <sup>6</sup>	25.78	0.00	15,000	120	1.0	430	530	--
	06/18/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	10/16/92	35.58	22.13	0.00	300	0.96	ND	4.0	3.5	--
	11/18/92	35.94	21.77	0.00	1,100	6.1	ND	13	5.6	--
	03/03/93	26.00	31.71	0.00	13,000	33	ND	160	290	--
	06/25/93	28.27	29.44	0.00	8,100	160	ND	580	740	--
	09/03/93	30.90	26.81	0.00	9,800	180	ND	580	700	--
	12/13/93	32.75	24.96	0.00	6,900	180	ND	240	550	--
	03/18/94	30.12	27.59	0.00	6,100	85	ND	260	260	--
	06/23/94	31.40	26.31	0.00	12,000	210	ND	610	860	--
	09/21/94	33.30	24.41	0.00	6,900	190	ND	460	510	--
	12/19/94	30.95	26.76	0.00	6,200	91	ND	230	210	--
	03/27/95 <sup>2</sup>	22.78	34.93	0.00	9,200	240	ND	200	1,400	--
	06/26/95	24.83	32.88	0.00	11,000	320	ND	680	2,000	--
	07/28/95	27.10	30.61	0.00	--	--	--	--	--	--
	09/28/95	29.58	28.13	0.00	10,000	250	ND	760	910	-- <sup>3</sup>
	10/24/95	30.40	27.31	0.00	--	--	--	--	--	--
	12/29/95	30.25	27.46	0.00	7,500	260	ND	580	870	-- <sup>4</sup>
	03/27/96	22.20	35.51	0.00	970	29	0.77	82	85	ND
	09/21/96	29.34	28.37	0.00	3,800	27	ND	46	45	ND
	03/31/97	24.35	33.36	0.00	ND	ND	ND	ND	ND	ND

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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	09/27/97	31.15	26.56	0.00	78	0.90	ND	12	ND	ND
(cont)	03/20/98	16.84	40.87	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.14	31.57	0.00	910	ND	49	12	2.2	1.5
	03/11/99	23.48	34.23	0.00	4,700	9.6	ND <sup>5</sup>	280	95	ND <sup>5</sup>
	09/08/99	28.60	29.11	0.00	1,900 <sup>7</sup>	ND <sup>5</sup>	ND <sup>5</sup>	36	ND <sup>5</sup>	ND <sup>5</sup>
	03/24/00	21.49	36.22	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	28.09	29.62	0.00	533 <sup>9</sup>	2.23	ND	6.27	0.684	ND
	<b>03/16/01</b>	<b>25.43</b>	<b>32.28</b>	<b>0.00</b>	<b>1,000</b>	<b>ND</b>	<b>ND</b>	<b>17.8</b>	<b>44.5</b>	<b>ND</b>
<b>MW-9</b>										
56.47	12/19/94	29.71	26.76	0.00	ND	ND	1.6	1.5	8.4	--
	03/27/95	21.48	34.99	0.00	ND	ND	0.61	ND	2.8	--
	06/26/95	24.50	31.97	0.00	ND	ND	ND	ND	3.9	--
	07/28/95	25.77	30.70	0.00	--	--	--	--	--	--
	09/28/95	28.23	28.24	0.00	ND	ND	ND	ND	ND	--
	10/24/95	29.21	27.26	0.00	--	--	--	--	--	--
	12/29/95	29.02	27.45	0.00	ND	ND	0.58	ND	0.52	--
	03/27/96	20.91	35.56	0.00	ND	ND	0.68	ND	0.51	ND
	09/21/96	28.05	28.42	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	23.48	32.99	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	30.38	26.09	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	15.60	40.87	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	24.85	31.62	0.00	ND	0.69	ND	ND	0.61	ND
	03/11/99	22.23	34.24	0.00	ND	ND	ND	ND	0.76	ND
	09/08/99	27.34	29.13	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	20.27	36.20	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	26.84	29.63	0.00	ND	ND	ND	ND	ND	ND
	<b>03/16/01</b>	<b>24.24</b>	<b>32.23</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-10</b>										
58.94	07/28/95	25.53	33.41	0.00	ND	ND	ND	ND	ND	--
	09/28/95	--	--	--	--	--	--	--	--	--
	10/24/95	31.76	27.18	0.00	ND	ND	ND	ND	ND	--
	12/29/95	31.55	27.39	0.00	ND	ND	0.65	ND	1.1	--
	03/27/96	23.62	35.32	0.00	ND	ND	0.68	ND	0.69	ND
	09/21/96	30.77	28.17	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	26.05	32.89	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	32.80	26.14	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	18.13	40.81	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	27.54	31.40	0.00	ND	ND	0.55	ND	ND	ND
	03/11/99	24.85	34.09	0.00	ND	ND	0.61	ND	0.87	ND
	09/08/99	29.97	28.97	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	22.90	36.04	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	29.48	29.46	0.00	ND	ND	ND	ND	ND	ND
	<b>03/16/01</b>	<b>26.80</b>	<b>32.14</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>Trip Blank</b>										
TB-LB	03/20/98	--	--	--	ND	ND	ND	ND	ND	ND
	09/09/98	--	--	--	ND	ND	ND	ND	ND	ND
	03/11/99	--	--	--	ND	ND	ND	ND	ND	ND
	09/08/99	--	--	--	ND	ND	ND	ND	ND	ND
	03/24/00	--	--	--	ND	ND	ND	ND	ND	ND
	09/15/00	--	--	--	ND	ND	ND	ND	ND	ND
	<b>03/16/01</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

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**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to March 20, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

(ppm) = Parts per million

ND = Not Detected

-- = Not Measured/Not Analyzed

\* TOC elevations have been surveyed relative to msl.

\*\* GWE was not corrected due to the presence of free product.

<sup>1</sup> Chromatogram contains early eluting peak.

<sup>2</sup> On March 27, 1995, total dissolved solid concentrations were as follows: MW-2 at 410 ppm; MW-3 at 450 ppm; MW-8 at 490 ppm.

<sup>3</sup> Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

<sup>4</sup> Laboratory has identified the presence of MTBE at a level above or equal to the taste odor threshold of 40 ppb in the groundwater sample from this well.

<sup>5</sup> Detection limit raised. Refer to analytical reports.

<sup>6</sup> Data suspect; not used in water-elevation determination.

<sup>7</sup> Laboratory report indicates gasoline C6-C12.

<sup>8</sup> MTBE by EPA Method 8260.

<sup>9</sup> Laboratory report indicates weathered gasoline C6-C12.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	09/15/00	<1,000	<100	12.6	<2.00	<2.00	<2.00	<2.00	<2.00

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
 MTBE = Methyl tertiary butyl ether  
 DIPE = Di-isopropyl ether  
 ETBE = Ethyl tertiary butyl ether  
 TAME = Tertiary amyl methyl ether  
 (ppb) = Parts per billion  
 ND = Not Detected

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

**Table 3**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

<b>WELL ID</b>	<b>DATE</b>	<b>Before Purging (mg/L)</b>	<b>After Purging (mg/L)</b>
MW-1	03/27/95 <sup>1</sup>	--	1.5
	06/26/95	--	1.60
	09/28/95	--	1.22
	12/29/95	--	1.74
	03/27/96	1.48	1.02
	09/21/96	--	1.01
	03/31/97	1.47	1.49
MW-2	03/27/95 <sup>1</sup>	--	1.7
	06/26/95	--	4.55
	09/28/95	--	3.00
	12/29/95	--	8.71
	03/27/96	--	--
	09/21/96	--	--
	03/31/97	2.18	2.12
MW-3	03/27/95 <sup>1</sup>	--	0.90
	06/26/95	--	1.55
	09/28/95	--	1.63
	12/29/95	--	6.97
	03/27/96	--	--
	09/21/96	--	--
	03/31/97	1.95	2.06
MW-4	03/27/95 <sup>1</sup>	--	4.90
	06/26/95	--	--
	09/28/95	--	6.29
	12/29/95	--	--
	03/27/96	4.32	3.91
	09/21/96	--	2.82
	03/31/97	2.66	2.63
MW-5	03/27/95 <sup>1</sup>	--	5.20
	06/26/95	--	--
	09/28/95	--	1.96
	12/29/95	--	--
	03/27/96	4.03	4.71
	09/21/96	--	4.12
	03/31/97	2.98	3.11

**Table 3**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-6	03/27/95 <sup>1</sup>	--	7.4
	06/26/95	--	--
	09/28/95	--	4.19
	12/29/95	--	--
	03/27/96	5.94	4.96
	09/21/96	--	3.74
	03/31/97	3.21	3.11
MW-7	03/27/95 <sup>1</sup>	--	8.4
	06/26/95	--	--
	09/28/95	--	2.04
	12/29/95	--	--
	03/27/96	6.63	5.23
	09/21/96	--	1.19
	03/31/97	2.29	2.16
MW-8	03/27/95 <sup>1</sup>	--	2.2
	06/26/95	--	3.86
	09/28/95	--	1.85
	12/29/95	--	2.03
	03/27/96	11.73	9.76
	09/21/96	--	2.16
	03/31/97	2.81	2.91
	09/27/97	3.11	--
03/20/98	--	2.65	
MW-9	03/27/95 <sup>1</sup>	--	7.8
	06/26/95	--	4.61
	09/28/95	--	5.76
	12/29/95	--	5.32
	03/27/96	5.62	5.23
	09/21/96	--	4.13
	03/31/97	3.36	3.27
MW-10	12/29/95	--	5.11
	03/27/96	4.38	4.57
	09/21/96	--	5.38
	03/31/97	4.48	4.83

**Table 3**  
**Dissolved Oxygen Concentrations**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

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**EXPLANATIONS:**

Dissolved oxygen concentrations prior to March 20, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter

-- = Not Measured

<sup>1</sup> The measurements were taken at Sequoia Analytical Laboratory.



## 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 an 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, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken 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 Tosco Marketing Company, 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 # TOSCO # 5367  
Address: 500 Bancroft Ave.  
City: San Leandro, Ca.

Job#: 180108  
Date: 3/16/01  
Sampler: Vartkas

Well ID: HW-1  
Well Diameter: 2 in.  
Total Depth: 35.14 ft.  
Depth to Water: 25.59 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 in.  
Amount Bailed (product/water): 0 (gal.)  
Volume Factor (VF):  
2" = 0.17      3" = 0.38      4" = 0.66  
6" = 1.50      12" = 5.80

9.55 x VF 0.17 = 1.62 x 3 (case volume) = Estimated Purge Volume: 5.0 (gal.)

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

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

Starting Time: 2:15  
Sampling Time: 2:30  
Purging Flow Rate: 1 gpm  
Did well de-water? NO

Weather Conditions: clear  
Water Color: clear      odorless  
Sediment Description: \_\_\_\_\_  
if yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>2:17</u>	<u>1.5</u>	<u>7.10</u>	<u>763</u>	<u>69.8</u>	_____	_____	_____
<u>2:19</u>	<u>3</u>	<u>6.97</u>	<u>750</u>	<u>69.5</u>	_____	_____	_____
<u>2:21</u>	<u>5</u>	<u>6.88</u>	<u>751</u>	<u>69.3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 X VOA VIAL</u>	<u>Y</u>	<u>HeL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # TOSCO # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/16/01  
 City: San Leandro, Ca. Sampler: Vartkar

Well ID: MW-2 Well Condition: OK  
 Well Diameter: 4 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 46.91 ft. Volume Factor (VF) table:  
 Depth to Water: 25.41 ft.

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

21.50 x VF 0.66 = 14.19 x 3 (case volume) = Estimated Purge Volume: 43.0 (gal.)

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

Starting Time: 12:05 Weather Conditions: clear  
 Sampling Time: 12:40 Water Color: clear Odor: NO  
 Purging Flow Rate: 2 gpm Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:12</u>	<u>14</u>	<u>7.67</u>	<u>553</u>	<u>68.1</u>	_____	_____	_____
<u>12:19</u>	<u>28</u>	<u>7.50</u>	<u>546</u>	<u>68.0</u>	_____	_____	_____
<u>12:26</u>	<u>43</u>	<u>7.48</u>	<u>540</u>	<u>67.8</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HEL</u>	<u>SEQUOIA</u>	<u>TPH6/BTEX/MTOE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # TOSCO # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/16/01  
 City: San Leandro, Ca. Sampler: Vertkas

Well ID: ND-3 Well Condition: OK  
 Well Diameter: 4 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 48.20 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water: 25.09 ft. Volume Factor (VF) 6" = 1.50 12" = 5.80

23.11 x VF 0.66 = 15.25 x 3 (case volume) = Estimated Purge Volume: 46.0 (gal.)

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

Starting Time: 1:30 Weather Conditions: clear  
 Sampling Time: 2:00 Water Color: clear  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:37</u>	<u>15</u>	<u>7.35</u>	<u>704</u>	<u>68.6</u>	_____	_____	_____
<u>1:45</u>	<u>30.5</u>	<u>7.20</u>	<u>690</u>	<u>68.3</u>	_____	_____	_____
<u>1:52</u>	<u>46</u>	<u>7.14</u>	<u>683</u>	<u>68.3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # TOSCO # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/16/01  
 City: San Leandro, Ca. Sampler: Vertkas

Well ID: MW-4 Well Condition: OK  
 Well Diameter: 4 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 48.52 ft. Volume Factor (VF):  
 Depth to Water: 26.14 ft. 2" = 0.17 3" = 0.38 4" = 0.66  
6" = 1.50 12" = 5.80

22.38 x VF <sup>0.66</sup> ~~0.66~~ = 14.77 x 3 (case volume) = Estimated Purge Volume: 44.5 (gal.)

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

Starting Time: 8:40 Weather Conditions: clear  
 Sampling Time: 9:10 Water Color: clear Odor: no  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:47</u>	<u>15</u>	<u>7.68</u>	<u>510</u>	<u>66.4</u>	_____	_____	_____
<u>8:55</u>	<u>30</u>	<u>7.50</u>	<u>523</u>	<u>66.5</u>	_____	_____	_____
<u>9:02</u>	<u>44.5</u>	<u>7.47</u>	<u>527</u>	<u>66.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # TOSCO # 5367  
Address: 500 Bancroft Ave.  
City: San Leandro, Ca.

Job#: 180108  
Date: 3/16/01  
Sampler: Vartkas

Well ID: MW-5  
Well Diameter: 2 in.  
Total Depth: 44.38 ft.  
Depth to Water: 26.05 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 in.  
Amount Bailed (product/water): 0 (gal.)  
Volume Factor (VF):  
2" = 0.17      3" = 0.38      4" = 0.66  
6" = 1.50      12" = 5.80

18.33 x VF 0.17 = 3.11 x 3 (case volume) = Estimated Purge Volume: 9.5 (gal.)

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

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

Starting Time: 9:24  
Sampling Time: 9:44  
Purging Flow Rate: 1 gpm  
Did well de-water? no

Weather Conditions: clear  
Water Color: clear      Odor: no  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_      Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:27	3	7.70	583	66.9			
9:30	6	7.57	574	67.1			
9:33	9.5	7.56	571	67.1			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
					TPHG/BTEX	MTBE
MW-5	3 x VDA VIAL	Y	HeL	SEQUOIA		

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # TOSCO # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/16/01  
 City: San Leandro, Ca. Sampler: Vartker

Well ID: MW-6 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 44.62 ft  
 Depth to Water: 24.87 ft

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

19.75 x VF 0.17 = 3.35 x 3 (case volume) = Estimated Purge Volume: 10.5 (gal.)

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

Starting Time: 10:43 Weather Conditions: clear  
 Sampling Time: 11:05 Water Color: clear Odor: no  
 Purging Flow Rate: 1 gpm Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:46</u>	<u>3.5</u>	<u>7.60</u>	<u>497</u>	<u>68.0</u>			
<u>10:50</u>	<u>7</u>	<u>7.50</u>	<u>490</u>	<u>67.8</u>			
<u>10:53</u>	<u>10.5</u>	<u>7.49</u>	<u>486</u>	<u>67.7</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 x VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH6/BTEX/MTOE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # TOSCO # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/16/01  
 City: San Leandro, Ca. Sampler: Vartkes

Well ID: MW-7 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 43.96 ft. Volume Factor (VF):  
 2" = 0.17      3" = 0.38      4" = 0.66  
 6" = 1.50      12" = 5.80  
 Depth to Water: 25.15 ft.

18.81 x VF 0.17 = 3.19 x 3 (case volume) = Estimated Purge Volume: 10.0 (gal.)

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

Starting Time: 11:24 Weather Conditions: clear  
 Sampling Time: 11:45 Water Color: clear Odor: no  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes: Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:27</u>	<u>3</u>	<u>7.65</u>	<u>613</u>	<u>68.4</u>	_____	_____	_____
<u>11:30</u>	<u>6.5</u>	<u>7.50</u>	<u>602</u>	<u>68.0</u>	_____	_____	_____
<u>11:34</u>	<u>10</u>	<u>7.46</u>	<u>596</u>	<u>68.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH6/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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



## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # TOSCO # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/16/01  
 City: San Leandro, Ca. Sampler: Vartkas

Well ID: MW-8 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 43.88 ft. Volume Factor (VF):  
 Depth to Water: 25.43 ft. 2" = 0.17    3" = 0.38    4" = 0.66  
 6" = 1.50    12" = 5.80

18.45 X VF 0.17 = 3.13 X 3 (case volume) = Estimated Purge Volume: 9.5 (gal.)

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

Starting Time: 12:55 Weather Conditions: clear  
 Sampling Time: 1:15 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes: Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:58</u>	<u>3</u>	<u>7.45</u>	<u>750</u>	<u>69.2</u>	_____	_____	_____
<u>1:01</u>	<u>6</u>	<u>7.31</u>	<u>739</u>	<u>68.7</u>	_____	_____	_____
<u>1:04</u>	<u>9.5</u>	<u>7.29</u>	<u>732</u>	<u>68.7</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # TOSCO # 5367  
Address: 500 Bancroft Ave.  
City: San Leandro, Ca.

Job#: 180108  
Date: 3/16/01  
Sampler: Vartker

Well ID: MW-9  
Well Diameter: 2 in.  
Total Depth: 44.63 ft.  
Depth to Water: 24.24 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 in.  
Amount Bailed (product/water): 0 (gal.)  
Volume Factor (VF) table:  

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

20.39 x VF 0.17 = 3.46 x 3 (case volume) = Estimated Purge Volume: 10.5 (gal.)

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

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

Starting Time: 8:05  
Sampling Time: 8:25  
Purging Flow Rate: 1 gpm.  
Did well de-water? no

Weather Conditions: clear  
Water Color: clear Odor: no  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:08</u>	<u>3.5</u>	<u>7.81</u>	<u>529</u>	<u>66.3</u>	_____	_____	_____
<u>8:12</u>	<u>7</u>	<u>7.63</u>	<u>537</u>	<u>66.6</u>	_____	_____	_____
<u>8:15</u>	<u>10.5</u>	<u>7.59</u>	<u>542</u>	<u>66.8</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3 x VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # TOSCO # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/16/01  
 City: San Leandro, Ca. Sampler: Vartkas

Well ID: MW-10 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 42.65 ft.  
 Depth to Water: 26.80 ft.

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

15.85 x VF 0.17 = 2.69 x 3 (case volume) = Estimated Purge Volume: 8.5 (gal.)

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

Starting Time: 10:05 Weather Conditions: clear  
 Sampling Time: 10:25 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:08	3	7.71	667	67.4			
10:11	6	7.54	673	67.2			
10:13	8.5	7.50	672	67.3			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 x VOA VIAL	Y	HCL	SEQUOIA	TPH6/BTEX/MTOE

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



Texas Marketing Company  
2000 Civic Canyon Pl., Box 400  
San Ramon, California 94583

Facility Number UNOCAL SS#5367  
 Facility Address 500 Bancroft Ave. SAN LEANDRO, CA  
180108.85  
 Consultant Project Number 180108.85  
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)  
 Address 6747 Sierra Court, Suite J, Dublin, CA 94568  
 Project Contact (Name) Deanna L. Harding  
 (Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name) DAVE DENITT  
 (Phone) 510-277-2384  
 Laboratory Name Sequoia Analytical  
 Laboratory Release Number \_\_\_\_\_  
 Samples Collected by (Name) Vanessa Tashjian  
 Collection Date 3/16/01  
 Signature Deanna L. Harding

DO NOT BILL  
TB-LB ANALYSIS

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Load (Yes or No)	Analyses To Be Performed											Remarks					
								TPH Gas + BTEX w/MTBE (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (10UP or AA)									
TB-LB	01	1	W	G		4cl	Y	X																
MW-1	02	3	"	"	2:30 PM	"	"	X																
MW-2	03	3	"	"	12:40 PM	"	"	X																
MW-3	04	3	"	"	2:00 PM	"	"	X																
MW-4	05	3	"	"	9:10 AM	"	"	X																
MW-5	06	3	"	"	9:40 AM	"	"	X																
MW-6	07	3	"	"	11:05 AM	"	"	X																
MW-7	08	3	"	"	11:45 AM	"	"	X																
MW-8	09	3	"	"	1:15 PM	"	"	X																
MW-9	10	3	"	"	8:25 PM	"	"	X																
MW-10	11	3	"	"	10:25 PM	"	"	X																

Sub to Lakes  
GREAT

Relinquished By (Signature) <u>Deanna L. Harding</u>	Organization G-R Inc.	Date/Time 3/16/01	Received By (Signature) <u>Deanna L. Harding</u>	Organization GAL	Date/Time 3/16/01 7:42 PM
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)  
 24 Hrs.  
 48 Hrs.  
 5 Days  
 10 Days  
 As Contracted



# Sequoia Analytical

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1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612  
[www.sequoialabs.com](http://www.sequoialabs.com)

April 02 , 2001

Deanna Harding  
Gettler-Ryan/Geostrategies(1)  
6747 Sierra Court, Suite J  
Dublin, CA 94568  
RE: Tosco(1) / L103109

Enclosed are the results of analyses for samples received by the laboratory on 03/16/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt  
Project Manager

CA ELAP Certificate Number 2360



Gettler-Ryan/Geostrategies(1)  
6747 Sierra Court, Suite J  
Dublin CA, 94568

Project: Tosco(1)  
Project Number: Unocal SS#5367  
Project Manager: Deanna Harding

Reported:  
04/02/01 06:30

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L103109-01	Water	03/16/01 00:00	03/16/01 19:42
MW-1	L103109-02	Water	03/16/01 14:30	03/16/01 19:42
MW-2	L103109-03	Water	03/16/01 12:40	03/16/01 19:42
MW-3	L103109-04	Water	03/16/01 14:00	03/16/01 19:42
MW-4	L103109-05	Water	03/16/01 09:10	03/16/01 19:42
MW-5	L103109-06	Water	03/16/01 09:44	03/16/01 19:42
MW-6	L103109-07	Water	03/16/01 11:05	03/16/01 19:42
MW-7	L103109-08	Water	03/16/01 11:45	03/16/01 19:42
MW-8	L103109-09	Water	03/16/01 13:15	03/16/01 19:42
MW-9	L103109-10	Water	03/16/01 08:25	03/16/01 19:42
MW-10	L103109-11	Water	03/16/01 10:25	03/16/01 19:42

Gettler-Ryan/Geostrategies(1)  
6747 Sierra Court, Suite J  
Dublin CA, 94568

Project: Tosco(1)  
Project Number: Unocal SS#5367  
Project Manager: Deanna Harding

Reported:  
04/02/01 06:30

**Total Petroleum Hydrocarbons as Gasoline by EPA 8015M**  
**Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TB-LB (L103109-01) Water Sampled: 03/16/01 00:00 Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	
<b>MW-1 (L103109-02) Water Sampled: 03/16/01 14:30 Received: 03/16/01 19:42</b>									
Gasoline	37500	5000	ug/l	100	1030469	03/28/01	03/29/01	EPA 8015M-VOA	G12,T1
<b>MW-2 (L103109-03) Water Sampled: 03/16/01 12:40 Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	
<b>MW-3 (L103109-04) Water Sampled: 03/16/01 14:00 Received: 03/16/01 19:42</b>									
Gasoline	678	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	T1,T4
<b>MW-4 (L103109-05) Water Sampled: 03/16/01 09:10 Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	
<b>MW-5 (L103109-06) Water Sampled: 03/16/01 09:44 Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	
<b>MW-6 (L103109-07) Water Sampled: 03/16/01 11:05 Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	
<b>MW-7 (L103109-08) Water Sampled: 03/16/01 11:45 Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	
<b>MW-8 (L103109-09) Water Sampled: 03/16/01 13:15 Received: 03/16/01 19:42</b>									
Gasoline	1000	50.0	ug/l	1	1030469	03/28/01	03/29/01	EPA 8015M-VOA	T1

Gettler-Ryan/Geostrategies(1)  
6747 Sierra Court, Suite J  
Dublin CA, 94568

Project: Tosco(1)  
Project Number: Unocal SS#5367  
Project Manager: Deanna Harding

Reported:  
04/02/01 06:30

**Total Petroleum Hydrocarbons as Gasoline by EPA 8015M**  
**Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-9 (L103109-10) Water</b> <b>Sampled: 03/16/01 08:25</b> <b>Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/30/01	EPA 8015M-VOA	
<b>MW-10 (L103109-11) Water</b> <b>Sampled: 03/16/01 10:25</b> <b>Received: 03/16/01 19:42</b>									
Gasoline	ND	50.0	ug/l	1	1030469	03/28/01	03/30/01	EPA 8015M-VOA	



Gettler-Ryan/Geostrategies(1)  
 6747 Sierra Court, Suite J  
 Dublin CA, 94568

Project: Tosco(1)  
 Project Number: Unocal SS#5367  
 Project Manager: Deanna Harding

Reported:  
 04/02/01 06:30

**BTEX+MTBE by EPA Method 8021B**  
**Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TB-LB (L103109-01) Water</b> Sampled: 03/16/01 00:00 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		90.0 %	86.0-142		"	"	"	"	
<b>MW-1 (L103109-02) Water</b> Sampled: 03/16/01 14:30 Received: 03/16/01 19:42									
Benzene	76.2	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	16.6	0.500	"	"	"	"	"	"	
Ethylbenzene	2010	50.0	"	100	"	"	03/29/01	"	G12
Total Xylenes	7330	50.0	"	"	"	"	03/29/01	"	G12
Methyl tert-butyl ether	ND	0.500	"	1	"	"	"	"	
<i>Surrogate: 4-BFB</i>		125 %	86.0-142		"	"	"	"	
<b>MW-2 (L103109-03) Water</b> Sampled: 03/16/01 12:40 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		99.0 %	86.0-142		"	"	"	"	
<b>MW-3 (L103109-04) Water</b> Sampled: 03/16/01 14:00 Received: 03/16/01 19:42									
Benzene	3.14	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	1.00	0.500	"	"	"	"	"	"	
Ethylbenzene	16.4	0.500	"	"	"	"	"	"	
Total Xylenes	14.6	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	42.9	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		103 %	86.0-142		"	"	"	"	

Gettler-Ryan/Geostrategies(1)  
6747 Sierra Court, Suite J  
Dublin CA, 94568

Project: Tosco(1)  
Project Number: Unocal SS#5367  
Project Manager: Deanna Harding

Reported:  
04/02/01 06:30

**BTEX+MTBE by EPA Method 8021B**  
**Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (L103109-05) Water</b> Sampled: 03/16/01 09:10 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		83.5 %	86.0-142		"	"	"	"	04
<b>MW-5 (L103109-06) Water</b> Sampled: 03/16/01 09:44 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		102 %	86.0-142		"	"	"	"	
<b>MW-6 (L103109-07) Water</b> Sampled: 03/16/01 11:05 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		103 %	86.0-142		"	"	"	"	
<b>MW-7 (L103109-08) Water</b> Sampled: 03/16/01 11:45 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		94.0 %	86.0-142		"	"	"	"	

Gettler-Ryan/Geostrategies(1)  
 6747 Sierra Court, Suite J  
 Dublin CA, 94568

Project: Tosco(1)  
 Project Number: Unocal SS#5367  
 Project Manager: Deanna Harding

Reported:  
 04/02/01 06:30

**BTEX+MTBE by EPA Method 8021B**

**Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (L103109-09) Water</b> Sampled: 03/16/01 13:15 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/29/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	17.8	0.500	"	"	"	"	"	"	
Total Xylenes	44.5	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		92.0 %	86.0-142		"	"	"	"	
<b>MW-9 (L103109-10) Water</b> Sampled: 03/16/01 08:25 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/30/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		86.0 %	86.0-142		"	"	"	"	
<b>MW-10 (L103109-11) Water</b> Sampled: 03/16/01 10:25 Received: 03/16/01 19:42									
Benzene	ND	0.500	ug/l	1	1030469	03/28/01	03/30/01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		85.0 %	86.0-142		"	"	"	"	04

Gettler-Ryan/Geostrategies(1)  
 6747 Sierra Court, Suite J  
 Dublin CA, 94568

Project: Tosco(1)  
 Project Number: Unocal SS#5367  
 Project Manager: Deanna Harding

Reported:  
 04/02/01 06:30

**Total Petroleum Hydrocarbons as Gasoline by EPA 8015M - Quality Control  
 Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1030469 - EPA 5030B (P/T)</b>										
<b>Blank (1030469-BLK1)</b>										
										Prepared: 03/28/01 Analyzed: 03/29/01
Gasoline	ND	50.0	ug/l							
<b>LCS (1030469-BS2)</b>										
										Prepared & Analyzed: 03/28/01
Gasoline	2210	50.0	ug/l	2000		111	80.0-120			
<b>Matrix Spike (1030469-MS2)</b>										
										Source: B103258-06 Prepared: 03/28/01 Analyzed: 03/29/01
Gasoline	2230	50.0	ug/l	2000	ND	112	80.0-120			
<b>Matrix Spike Dup (1030469-MSD2)</b>										
										Source: B103258-06 Prepared: 03/28/01 Analyzed: 03/29/01
Gasoline	1910	50.0	ug/l	2000	ND	95.5	80.0-120	15.9	20.0	

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 04/02/01 06:30

**BTEX+MTBE by EPA Method 8021B - Quality Control**  
**Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1030469 - EPA 5030B (P/T)**

**Blank (1030469-BLK1)**

Prepared: 03/28/01 Analyzed: 03/29/01

Benzene	ND	0.500	ug/l							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Total Xylenes	ND	0.500	"							
Methyl tert-butyl ether	ND	0.500	"							
Surrogate: 4-BFB	19.9		"	20.0		99.5	86.0-142			

**LCS (1030469-BS1)**

Prepared & Analyzed: 03/28/01

Benzene	22.9	0.500	ug/l	25.0		91.6	85.0-115			
Toluene	23.7	0.500	"	25.0		94.8	85.0-115			
Ethylbenzene	24.7	0.500	"	25.0		98.8	85.0-115			
Total Xylenes	74.0	0.500	"	75.0		98.7	85.0-115			
Methyl tert-butyl ether	23.7	0.500	"	25.0		94.8	85.0-115			
Surrogate: 4-BFB	20.8		"	20.0		104	86.0-142			

**Matrix Spike (1030469-MS1)**

Source: B103258-06

Prepared: 03/28/01 Analyzed: 03/29/01

Benzene	21.4	0.500	ug/l	25.0	ND	85.6	74.3-134			
Toluene	22.2	0.500	"	25.0	ND	88.8	63.8-141			
Ethylbenzene	23.2	0.500	"	25.0	ND	92.8	64.3-140			
Total Xylenes	69.0	0.500	"	75.0	ND	92.0	67.6-143			
Methyl tert-butyl ether	21.6	0.500	"	25.0	ND	86.4	67.2-157			
Surrogate: 4-BFB	20.1		"	20.0		101	86.0-142			

**Matrix Spike Dup (1030469-MSD1)**

Source: B103258-06

Prepared: 03/28/01 Analyzed: 03/29/01

Benzene	22.0	0.500	ug/l	25.0	ND	88.0	74.3-134	2.76	21.1	
Toluene	23.2	0.500	"	25.0	ND	92.8	63.8-141	4.41	17.5	
Ethylbenzene	24.3	0.500	"	25.0	ND	97.2	64.3-140	4.63	17.5	
Total Xylenes	72.4	0.500	"	75.0	ND	96.5	67.6-143	4.77	17.6	
Methyl tert-butyl ether	22.1	0.500	"	25.0	ND	88.4	67.2-157	2.29	27.9	
Surrogate: 4-BFB	20.5		"	20.0		103	86.0-142			

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Reported:  
04/02/01 06:30

#### Notes and Definitions

G12 The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.

O4 The recovery for this analyte is below the laboratory's established acceptance criteria.

T1 Gas Pattern

T4 Gas Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference