GETTLER-RYAN INC.

TRANSMITTAL

November 13, 2000
G-R #: 180108

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	November 9, 2000	Groundwater Monitoring and Sampling Report Second Semi-Annual 2000 - Event of September 15, 2000

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 ***November 22, 2000***, this report will be distributed to the following:

Enclosure

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

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the i group

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

A Member of The IT Group

ENVIRONMENTAL PROTECTION
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505
STID 758

October 20, 2000
Project 311-127.1A

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

Re: 76 Service Station 5367
Quarterly Summary Report
Third Quarter 2000

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
Third Quarter 2000

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 were performed in September 2000.

NEXT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities performed in September 2000 will be reported in November 2000.

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.

November 9, 2000
G-R Job #180108

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

RE: Second Semi-Annual 2000 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

Dear Mr. De Witt:

This report documents the semi-annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On September 15, 2000, field personnel monitored and sampled ten wells (MW-1 through MW-10) 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. 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

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

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

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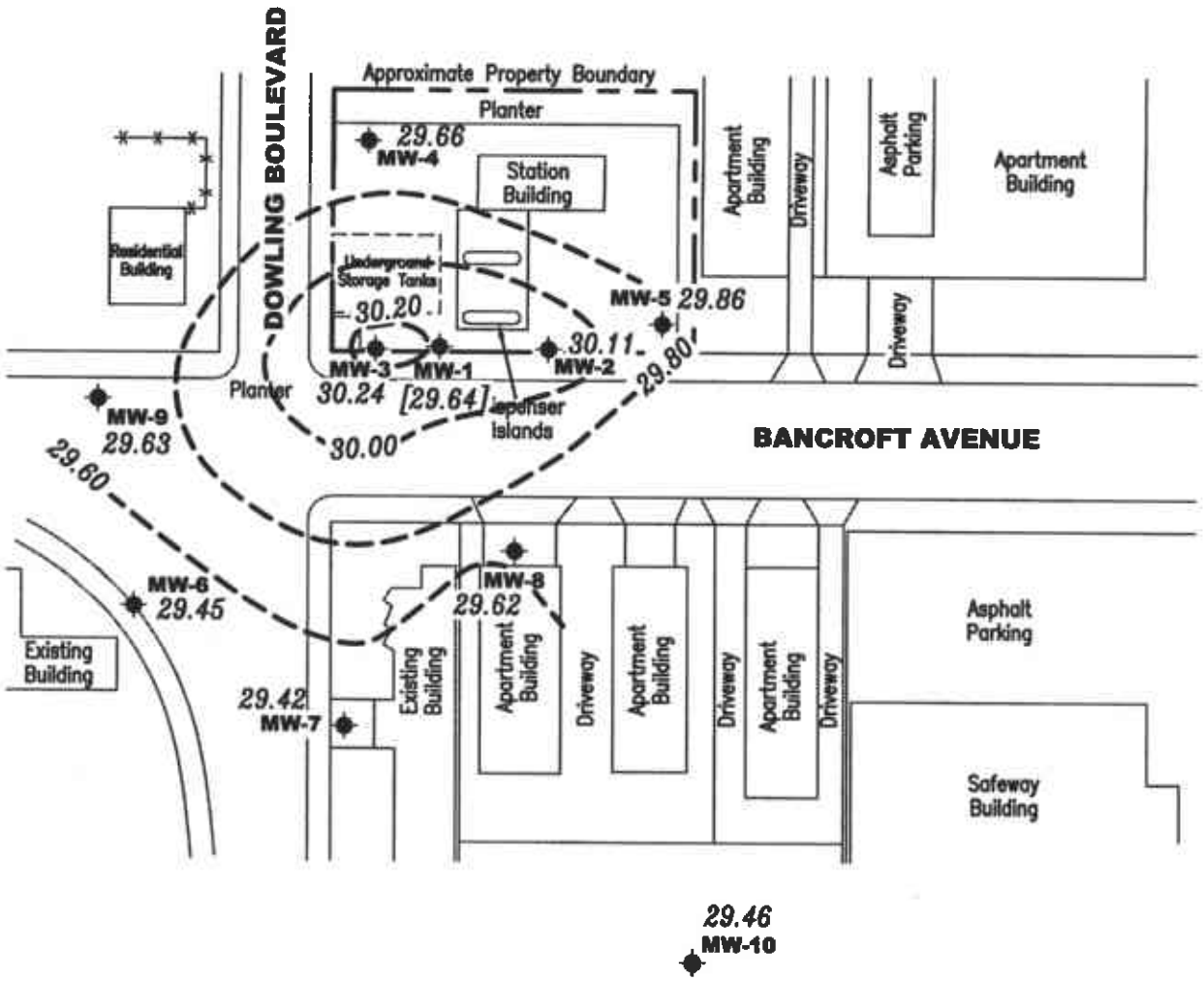


EXPLANATION

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 Groundwater elevation contour, dashed where inferred.
- [99.99] Not used in contouring

Groundwaterflow direction varues at a gradient of 0.005 to 0.007 Ft./Ft.

N

0 80

Scale in Feet

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

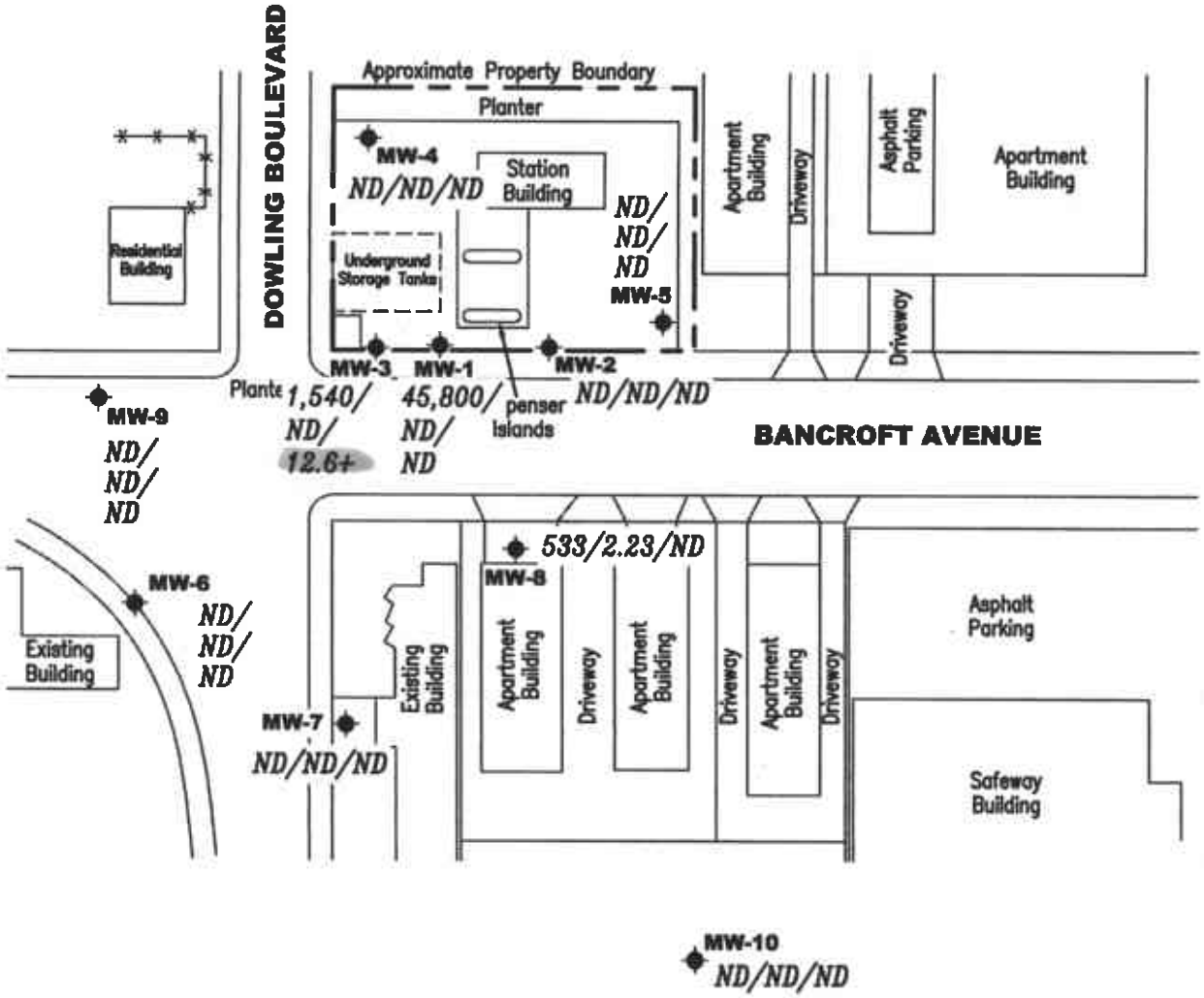
PROJECT NUMBER 180108

REVIEWED BY

DATE September 15, 2000

REVISED DATE

FILE NAME: P:\ENVIRO\TOSCO\5367\Q00-5367.DWG | Layout Tab: Pot3



EXPLANATION

- ◆ Groundwater monitoring well
- *A/B/C* TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/ Benzene/MTBE concentrations in ppb
- *ND* Not Detected
- + MTBE by EPA Method 8260

0 80

Scale in Feet

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

Gettler - Ryan Inc.

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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
September 15, 2000

REVISED DATE

FILE NAME: P:\ENVIRO\TOSCO\5367\000-5367.DWG | Layout Tab: Con3

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[5]	350	2,900	14,000	ND[5]
	09/09/98	26.21	31.62	0.00	59,000	51	64	6,000	4,800	ND[5]
	03/11/99	23.60	34.23	0.00	60,000	130	ND[5]	2,900	12,000	ND[5]
	09/08/99	28.70	29.13	0.00	74,000[7]	ND[5]	ND[5]	2,600	10,000	ND[5]
	03/24/00	21.61	36.22	0.00	37,000[7]	ND[5]	ND[5]	1,980	6,880	ND[5]
	09/15/00	**28.19**	**29.64**	**0.00**	**45,800[9]**	**ND[5]**	**ND[5]**	**3,150**	**10,500**	**ND[5]**
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	--	--	--	--	--	
	06/18/92	31.27	26.86	0.00	1,200	35	1.6	56	26	--

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	09/30/92	--	--	--	820	21	ND	42	25	--
(cont)	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[2]	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**

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[1]	430	160	640	2,800	--
	03/03/93	26.11	31.81	0.00	96,000[1]	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[2]	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	--[3]
	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	--[4]

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[5]	ND[5]	ND[5]	ND[5]	ND[5]	ND[5]
	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[7]	ND[5]	ND[5]	ND[5]	160	ND[5]
	03/24/00	21.12	36.80	0.00	3,310[7]	5.40	ND[5]	101	43.3	ND[5]
	09/15/00	**27.68**	**30.24**	**0.00**	**1,540[9]**	**ND[5]**	**ND[5]**	**56.4**	**ND**	**ND/12.6[8]**
MW-4										
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	--	--	--	--	--	--
	09/03/93	31.05	27.24	0.00	86	14	13	1.4	7.1	--

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	12/13/93	33.09	25.20	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
(cont)	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	--[3]
	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**
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	--	--	--	--	--	--

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	09/27/91	37.23	21.27	0.00	ND	ND	ND	ND	ND	--
(cont)	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
	09/27/97	31.65	26.85	0.00	ND	ND	ND	ND	ND	ND
	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**

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-6										
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[1]	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	--
	12/19/94	30.32	26.64	0.00	--	--	--	--	--	--
	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

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-6	09/27/97	30.52	26.44	0.00	ND	ND	ND	ND	ND	ND
(cont)	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**
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	--
	06/18/92	32.52	24.73	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--

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-7	03/27/95	22.43	34.82	0.00	ND	ND	0.54	ND	1.9	--
(cont)	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	--[3]
	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**
MW-8										
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[6]	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	--

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-8	11/18/92	35.94	21.77	0.00	1,100	6.1	ND	13	5.6	--
(cont)	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[2]	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	--[3]
	10/24/95	30.40	27.31	0.00	--	--	--	--	--	--
	12/29/95	30.25	27.46	0.00	7,500	260	ND	580	870	--[4]
	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
	09/27/97	31.15	26.56	0.00	78	0.90	ND	12	ND	ND
	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[5]	280	95	ND[5]
	09/08/99	28.60	29.11	0.00	1,900[7]	ND[5]	ND[5]	36	ND[5]	ND[5]
	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[9]**	**2.23**	**ND**	**6.27**	**0.684**	**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-9										
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**
MW-10										
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

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-10	03/11/99	24.85	34.09	0.00	ND	ND	0.61	ND	0.87	ND
(cont)	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**
Trip Blank										
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**

Table 1

Groundwater Monitoring Data and Analytical Results

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

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 mean sea level (msl).
** Groundwater elevation was not corrected due to the presence of free product.

1 Chromatogram contains early eluting peak.
2 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.
3 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
4 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.
5 Detection limit raised. Refer to analytical reports.
6 Data suspect; not used in water-elevation determination.
7 Laboratory report indicates gasoline C6-C12.
8 MTBE by EPA method 8260.
9 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
-- = Not Analyzed
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

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
MW-1	03/27/95[1]	--	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[1]	--	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[1]	--	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[1]	--	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[1]	--	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
MW-6	03/27/95[1]	--	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

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-7	03/27/95[1]	--	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[1]	--	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[1]	--	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

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

[1] 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/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vatthy

Well ID [redacted] Well Condition: ok

Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 35.14 ft.

Depth to Water 28.19 ft.

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

6.95 X VF 0.17 = 1.18 X 3 (case volume) = Estimated Purge Volume: 4.0 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 2:55 Weather Conditions: clear
Sampling Time: 3:10 Water Color: clear Odor: y
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)
2:56	1	7.13	730	70.3			
2:58	2.5	7.02	722	69.8			
3:00	4	6.96	718	69.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vartley

Well ID MW-2 Well Condition: ok
Well Diameter 4 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 46.91 ft.
Depth to Water 28.02 ft.

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

18.89 X VF 0.66 = 12.46 X 3 (case volume) = Estimated Purge Volume: 37.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:
Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 12:45 Weather Conditions: clear
Sampling Time: 1:15 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 µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:51	12.5	7.62	583	68.8			
12:57	25	7.47	579	68.5			
1:04	37.5	7.44	574	68.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vartlay

Well ID MW-3 Well Condition: ok
Well Diameter 4 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 48.20 ft.
Depth to Water 27.68 ft.

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

20.52 x VF 0.66 = 13.54 x 3 (case volume) = Estimated Purge Volume: 41.0 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 2:10 Weather Conditions: clear
Sampling Time: 2:42 Water Color: clear Odor: y
Purging Flow Rate: 2 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)
2:17	13.5	7.28	685	69.8			
2:23	27	7.14	673	69.5			
2:30	41	7.09	670	69.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	5 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
					(6) Oxy's + 1,2 DCA + EDB (8260)

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Varthy

Well ID MW-4 Well Condition: ok
Well Diameter 4 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 48.52 ft.
Depth to Water 28.63 ft.

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

19.89 X VF 0.66 = 13.12 X 3 (case volume) = Estimated Purge Volume: 39.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 9:50 Weather Conditions: clear
Sampling Time: 10:22 Water Color: clear Odor: none
Purging Flow Rate: 2 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)
9:57	13	7.78	537	67.2			
10:03	26	7.54	525	66.7			
10:10	39.5	7.51	521	66.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE /	LABORATORY	ANALYSES
MW-4	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Varthy

Well ID MW-5 Well Condition: ok

Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 44.38 ft.

Depth to Water 28.64 ft.

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

15.74 X VF 0.17 = 2.67 X 3 (case volume) = Estimated Purge Volume: 8.5 (gal.)

Purge Equipment: Disposable Bailer / Bailer / (Stack) / Suction / Grundfos / Other:

Sampling Equipment: (Disposable Bailer) / Bailer / Pressure Bailer / Grab Sample / Other:

Starting Time: 9:16 Weather Conditions: overcast
Sampling Time: 9:35 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)
9:19	3	7.78	607	67.5			
9:22	6	7.60	598	67.2			
9:25	8.5	7.54	590	67.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3xVOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vartkes

Well ID MW-6 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 44.62 ft.
Depth to Water 27.51 ft.

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

17.11 x VF 0.17 = 2.90 X 3 (case volume) = Estimated Purge Volume: 9.0 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:
Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 11:20 Weather Conditions: clear
Sampling Time: 11:40 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)
11:23	3	7.63	473	68.3			
11:26	6	7.52	460	68.2			
11:29	9	7.47	463	68.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE /	LABORATORY	ANALYSES
MW-6	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vartly

Well ID MW-7 Well Condition: ok

Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

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 27.83 ft.

16.13 X VF 0.17 = 2.74 X 3 (case volume) = Estimated Purge Volume: 8.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 12:01 Weather Conditions: clear
Sampling Time: 12:23 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)
12:04	3	7.61	553	69.1			
12:07	6	7.46	547	68.7			
12:10	8.5	7.42	544	68.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility # 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vartly

Well ID MW-8 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 43.88 ft.
Depth to Water 28.09 ft.

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

15.79 X VF 0.17 = 2.68 X 3 (case volume) = Estimated Purge Volume: 8.5 (gal.)

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

Starting Time: 1:32 Weather Conditions: clear
Sampling Time: 1:50 Water Color: clear Odor: mild
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)
1:35	3	7.33	723	69.6			
1:38	6	7.21	715	69.2			
1:41	8.5	7.20	710	69.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vatthy

Well ID MW-9 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 44.63 ft.
Depth to Water 26.84 ft.

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

17.79 X VF 0.17 = 3.02 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: 10:40 Weather Conditions: clear
Sampling Time: 11:00 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)
10:43	3	7.70	513	67.9			
10:46	6	7.53	501	67.5			
10:50	9.5	7.50	496	67.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Tosco
Facility# 5367 Job#: 180108
Address: 500 Bancroft Ave. Date: 9/15/00
City: San Leandro Sampler: Vartkes

Well ID MW-10 Well Condition: ok

Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 42.65 ft.

Depth to Water 29.48 ft.

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

13.17 x VF 0.17 = 2.23 x 3 (case volume) = Estimated Purge Volume: 7.0 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 8:40 Weather Conditions: overcast
Sampling Time: 8:58 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)
8:42	2	7.85	693	66.8			
8:45	4.5	7.69	705	67.2			
8:47	7	7.60	710	67.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

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TOSCO

Tosco Marketing Company
2000 Crow Canyon Pl., Ste. 400
San Ramon, California 94583

Facility Number UNOCAL SS#5367 / 200912 00
Facility Address 500 Bancroft Ave. SAN LEANDRO, CA
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 DERITT
(Phone) 510-277-2384
Laboratory Name Sequoia Analytical
Laboratory Release Number
Samples Collected by (Name) Vasiles Toshjian
Collection Date 9/15/00
Signature

DO NOT BILL TB-LB ANALYSIS

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	Iced (Yes or No)	TPH Gas + BTEX w/MTBE (8015)	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 (ICAP or AA)	(6) OXY's (8260) 1,2 DCA + EDB					Remarks
								Analyses To Be Performed													
TB-LB		1	W	G		HCl	Y	X													
MW-1		3	"	"	310	"	"	X								X					
MW-2		3	"	"	115	"	"	X													
MW-3		5	"	"	242	"	"	X													
MW-4		3	"	"	1023	"	"	X													
MW-5		3	"	"	935	"	"	X													
MW-6		3	"	"	1140	"	"	X													
MW-7		3	"	"	1223	"	"	X													
MW-8		3	"	"	1500	"	"	X													
MW-9		3	"	"	1100	"	"	X													
MW-10		3	"	"	858	"	"	X													

Relinquished By (Signature)	Organization G-R Inc.	Date/Time 9/15/00 4:15 pm	Received By (Signature)	Organization S.C.	Date/Time 9/15/00 4:15 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

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October 2, 2000

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

RE: Tosco(4)/L009120

Dear Deanna Harding

Enclosed are the results of analyses for sample(s) received by the laboratory on September 15, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate Number I2360

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Gettler-Ryan/Geostrategies(1)	Project: Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number: Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 10/2/00

ANALYTICAL REPORT FOR L009120

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L009120-01	Water	9/15/00
MW-1	L009120-02	Water	9/15/00
MW-2	L009120-03	Water	9/15/00
MW-3	L009120-04	Water	9/15/00
MW-4	L009120-05	Water	9/15/00
MW-5	L009120-06	Water	9/15/00
MW-6	L009120-07	Water	9/15/00
MW-7	L009120-08	Water	9/15/00
MW-8	L009120-09	Water	9/15/00
MW-9	L009120-10	Water	9/15/00
MW-10	L009120-11	Water	9/15/00

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TB-LB			**L009120-01**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090129	9/27/00	9/28/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*94.5*	*%*	
MW-1			**L009120-02**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090129	9/27/00	9/28/00		10000	**45800**	ug/l	1
Benzene	"	"	"		100	ND	"	
Toluene	"	"	"		100	ND	"	
Ethylbenzene	"	"	"		100	**3150**	"	
Xylenes (total)	"	"	"		100	**10500**	"	
Methyl tert-butyl ether	"	"	"		1000	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*96.4*	*%*	
MW-2			**L009120-03**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090129	9/27/00	9/28/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*98.9*	*%*	
MW-3			**L009120-04**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090129	9/27/00	9/28/00		500	**1540**	ug/l	1
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	**56.4**	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	"	"	"		50.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*88.2*	*%*	
MW-4			**L009120-05**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090137	9/28/00	9/28/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	**1.36**	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	**1.46**	"	

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-4 (continued)			**L009120-05**				**Water**	
Methyl tert-butyl ether	0090137	9/28/00	9/28/00		5.00	ND	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*119*	%	
MW-5			**L009120-06**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090137	9/28/00	9/28/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*108*	%	
MW-6			**L009120-07**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090137	9/28/00	9/28/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*116*	%	
MW-7			**L009120-08**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090137	9/28/00	9/28/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*111*	%	
MW-8			**L009120-09**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090138	9/28/00	9/28/00		50.0	**533**	ug/l	1
Benzene	"	"	"		0.500	**2.23**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	**6.27**	"	
Xylenes (total)	"	"	"		0.500	**0.684**	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*168*	%	*2*
MW-9			**L009120-10**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090137	9/28/00	9/28/00		50.0	ND	ug/l	

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-9 (continued)			**L009120-10**				**Water**	
Benzene	0090137	9/28/00	9/28/00		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*108*	%	
MW-10			**L009120-11**				**Water**	
Purgeable Hydrocarbons as Gasoline	0090137	9/28/00	9/28/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*98.4*	%	

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Volatile Organic Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-3			**L009120-04**				**Water**	
Ethanol	0090109	9/22/00	9/23/00		1000	ND	ug/l	
1,2-Dibromoethane	"	"	"		2.00	ND	"	
1,2-Dichloroethane	"	"	"		2.00	ND	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	**12.6**	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Tert-butyl alcohol	"	"	"		100	ND	"	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*114*	*%*	
Surrogate: Toluene-d8	"	"	"	*88.0-110*		*103*	"	

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control Data
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0090129	**Date Prepared: 9/27/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0090129-BLK2**									
Purgeable Hydrocarbons as Gasoline	9/27/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.43*	"	*70.0-130*	*94.3*			
LCS	**0090129-BS1**									
Benzene	9/27/00	10.0		10.6	ug/l	70.0-130	106			
Toluene	"	10.0		9.70	"	70.0-130	97.0			
Ethylbenzene	"	10.0		9.72	"	70.0-130	97.2			
Xylenes (total)	"	30.0		29.8	"	70.0-130	99.3			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.6*	"	*70.0-130*	*116*			
LCS	**0090129-BS2**									
Purgeable Hydrocarbons as Gasoline	9/27/00	250		224	ug/l	70.0-130	89.6			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.81*	"	*70.0-130*	*98.1*			
Matrix Spike	**0090129-MS1**		**L009120-03**							
Purgeable Hydrocarbons as Gasoline	9/27/00	250	ND	231	ug/l	60.0-140	**92.4**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.10*	"	*70.0-130*	*91.0*			
Matrix Spike Dup	**0090129-MSD1**		**L009120-03**							
Purgeable Hydrocarbons as Gasoline	9/27/00	250	ND	238	ug/l	60.0-140	**95.2**	25.0	**2.99**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.09*	"	*70.0-130*	*90.9*			
Batch: 0090137	**Date Prepared: 9/28/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0090137-BLK1**									
Purgeable Hydrocarbons as Gasoline	9/28/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.8*	"	*70.0-130*	*108*			
LCS	**0090137-BS1**									
Benzene	9/28/00	10.0		10.5	ug/l	70.0-130	105			
Toluene	"	10.0		9.83	"	70.0-130	98.3			

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Gettler-Ryan/Geostrategies(1)	Project: Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number: Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 10/2/00

Total Purgeable Hydrocarbons (C6-C12) BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0090137-BS1**									
Ethylbenzene	9/28/00	10.0		9.96	ug/l	70.0-130	99.6			
Xylenes (total)	"	30.0		30.3	"	70.0-130	101			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.70*	"	*70.0-130*	*97.0*			
LCS	**0090137-BS2**									
Purgeable Hydrocarbons as Gasoline	9/28/00	250		225	ug/l	70.0-130	90.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.3*	"	*70.0-130*	*113*			
Matrix Spike	**0090137-MS1**		**L009120-06**							
Benzene	9/28/00	10.0	ND	11.5	ug/l	60.0-140	**115**			
Toluene	"	10.0	ND	10.7	"	60.0-140	**107**			
Ethylbenzene	"	10.0	ND	10.9	"	60.0-140	**109**			
Xylenes (total)	"	30.0	ND	33.2	"	60.0-140	**111**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.38*	"	*70.0-130*	*83.8*			
Matrix Spike Dup	**0090137-MSD1**		**L009120-06**							
Benzene	9/29/00	10.0	ND	11.2	ug/l	60.0-140	**112**	25.0	**2.64**	
Toluene	"	10.0	ND	10.5	"	60.0-140	**105**	25.0	**1.89**	
Ethylbenzene	"	10.0	ND	10.7	"	60.0-140	**107**	25.0	**1.85**	
Xylenes (total)	"	30.0	ND	32.6	"	60.0-140	**109**	25.0	**1.82**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.83*	"	*70.0-130*	*98.3*			
Batch: 0090138	**Date Prepared: 9/28/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0090138-BLK1**									
Purgeable Hydrocarbons as Gasoline	9/28/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*12.3*	"	*70.0-130*	*123*			
LCS	**0090138-BS1**									
Benzene	9/28/00	10.0		11.0	ug/l	70.0-130	110			
Toluene	"	10.0		10.5	"	70.0-130	105			
Ethylbenzene	"	10.0		10.2	"	70.0-130	102			
Xylenes (total)	"	30.0		30.9	"	70.0-130	103			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*12.7*	"	*70.0-130*	*127*			
LCS	**0090138-BS2**									
Purgeable Hydrocarbons as Gasoline	9/28/00	250		216	ug/l	70.0-130	86.4			

**Refer to end of report for text of notes and definitions.*

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0090138-BS2**									
Surrogate: a,a,a-Trifluorotoluene	*9/28/00*	*10.0*		*12.8*	*ug/l*	*70.0-130*	*128*			
Matrix Spike	**0090138-MS1**		**L009122-02**							
Benzene	9/28/00	10.0	ND	10.6	ug/l	60.0-140	**106**			
Toluene	"	10.0	ND	10.1	"	60.0-140	**101**			
Ethylbenzene	"	10.0	ND	9.88	"	60.0-140	**98.8**			
Xylenes (total)	"	30.0	ND	29.4	"	60.0-140	**98.0**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.78*	"	*70.0-130*	*97.8*			
Matrix Spike Dup	**0090138-MSD1**		**L009122-02**							
Benzene	9/28/00	10.0	ND	9.53	ug/l	60.0-140	**95.3**	25.0	**10.6**	
Toluene	"	10.0	ND	9.21	"	60.0-140	**92.1**	25.0	**9.22**	
Ethylbenzene	"	10.0	ND	8.84	"	60.0-140	**88.4**	25.0	**11.1**	
Xylenes (total)	"	30.0	ND	26.7	"	60.0-140	**89.0**	25.0	**9.63**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.37*	"	*70.0-130*	*83.7*			

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Gettler-Ryan/Geostrategies(1)	Project: Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number: Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 10/2/00

Volatile Organic Oxygenated Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0090109	**Date Prepared: 9/22/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0090109-BLK1**									
Ethanol	9/22/00			ND	ug/l	1000				
1,2-Dibromoethane	"			ND	"	2.00				
1,2-Dichloroethane	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Methyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Tert-butyl alcohol	"			ND	"	100				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*56.9*	"	*76.0-114*	*114*			
Surrogate: Toluene-d8	"	*50.0*		*50.3*	"	*88.0-110*	*101*			
Blank	**0090109-BLK2**									
Ethanol	9/25/00			ND	ug/l	1000				
1,2-Dibromoethane	"			ND	"	2.00				
1,2-Dichloroethane	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Methyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Tert-butyl alcohol	"			ND	"	100				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.7*	"	*76.0-114*	*105*			
Surrogate: Toluene-d8	"	*50.0*		*48.3*	"	*88.0-110*	*96.6*			
LCS	**0090109-BS1**									
Methyl tert-butyl ether	9/22/00	50.0		46.3	ug/l	70.0-130	92.6			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.7*	"	*76.0-114*	*105*			
Surrogate: Toluene-d8	"	*50.0*		*45.3*	"	*88.0-110*	*90.6*			
LCS	**0090109-BS2**									
Methyl tert-butyl ether	9/25/00	50.0		50.3	ug/l	70.0-130	101			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*53.3*	"	*76.0-114*	*107*			
Surrogate: Toluene-d8	"	*50.0*		*50.9*	"	*88.0-110*	*102*			
Matrix Spike	**0090109-MS1**		**L009153-02**							
Methyl tert-butyl ether	9/25/00	50.0	ND	56.4	ug/l	60.0-140	**113**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.0*	"	*76.0-114*	*102*			
Surrogate: Toluene-d8	"	*50.0*		*51.5*	"	*88.0-110*	*103*			
Matrix Spike Dup	**0090109-MSD1**		**L009153-02**							
Methyl tert-butyl ether	9/25/00	50.0	ND	44.1	ug/l	60.0-140	**88.2**	25.0	**24.7**	

**Refer to end of report for text of notes and definitions.*

Sequoia Analytical

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Volatile Organic Oxygenated Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)	**0090109-MSD1**		**L009153-02**							
Surrogate: 1,2-Dichloroethane-d4	*9/25/00*	*50.0*		*44.1*	*ug/l*	*76.0-114*	*88.2*			
Surrogate: Toluene-d8	*"*	*50.0*		*51.1*	*"*	*88.0-110*	*102*			

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled: 9/15/00
6747 Sierra Court, Suite J	Project Number:	Unocal SS#5367	Received: 9/15/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 10/2/00

Notes and Definitions

#	Note
1	Chromatogram Pattern: Weathered Gasoline C6-C12
2	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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
Recov.	Recovery
RPD	Relative Percent Difference