



# GETTLER-RYAN INC.

Re-499

## TRANSMITTAL

Alameda County

November 13, 2002

G-R #180108

DEC 04 2002

Environmental Health  
CC: Mr. Jim Ripp

TO: Mr. David B. De Witt  
Phillips 66 Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94583

Shaw Environmental, Inc.  
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) Service Station  
#5367  
500 Bancroft Avenue  
San Leandro, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	November 4, 2002	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of September 26, 2002

### 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 29, 2002**, 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/5367-dbd



# GETTLER-RYAN Inc.

November 4, 2002  
G-R Job #180108

Mr. David B. De Witt  
Phillips 66 Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94583

**RE: Second Semi-Annual Event of September 26, 2002**  
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 and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. 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

Robert C. Mallory  
Registered Geologist, No. 7285

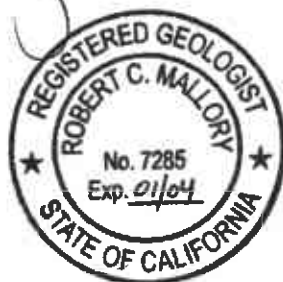
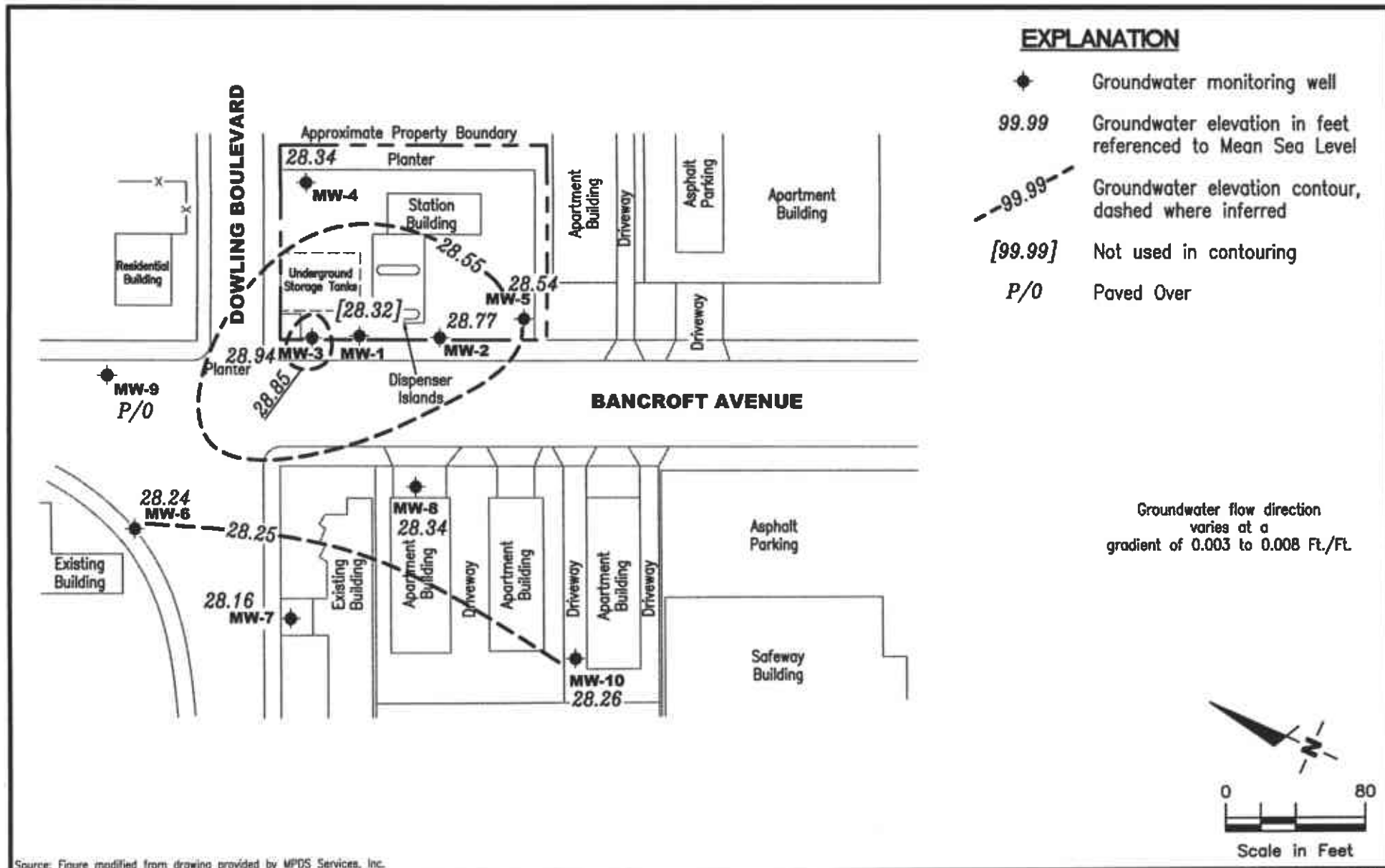


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Table 3: Dissolved Oxygen Concentrations  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field 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**

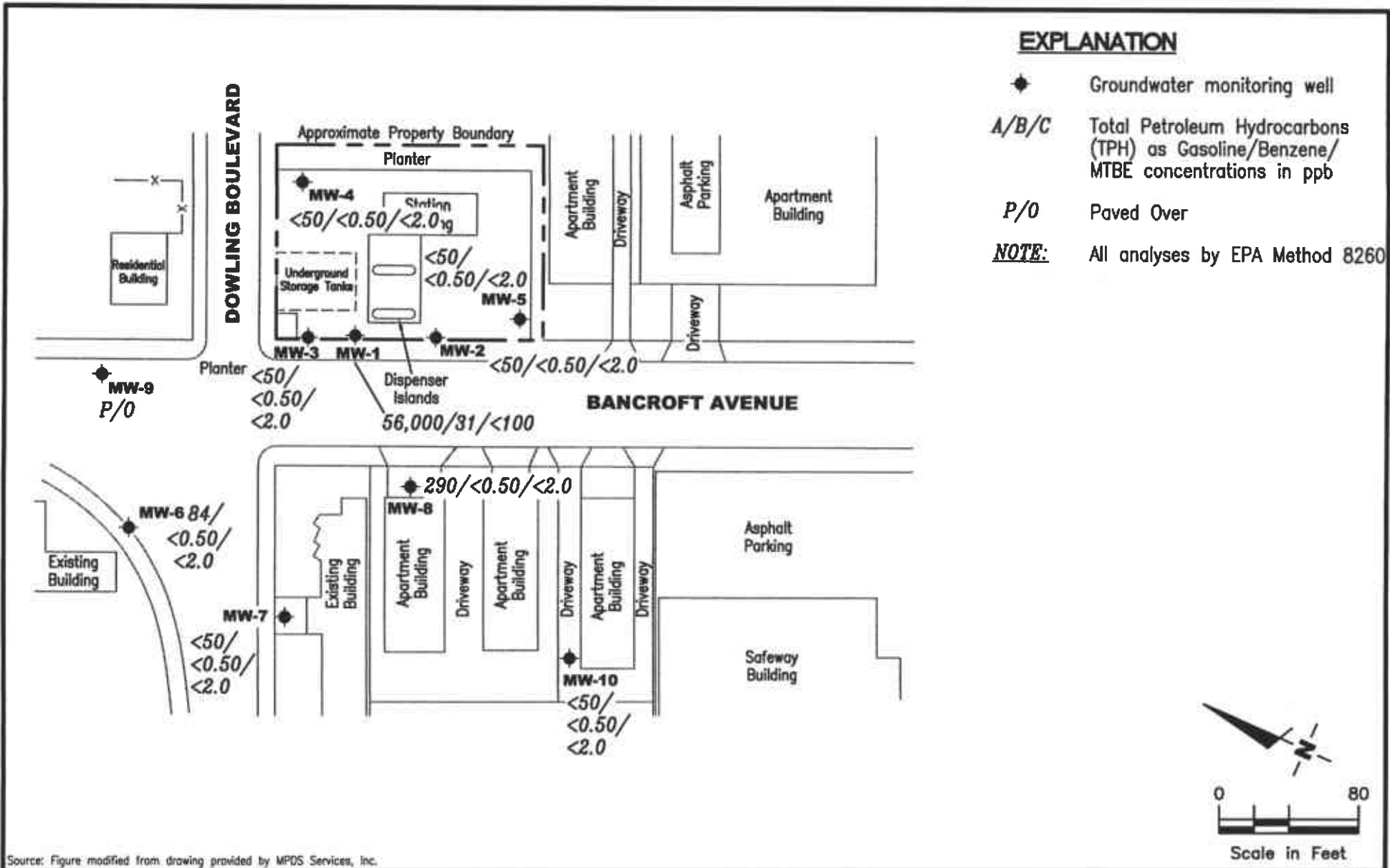
PROJECT NUMBER  
 180108

REVIEWED BY

DATE  
 September 26, 2002

REVISED DATE

FILE NAME: P:\ENVIRO\TOSCO\5367\002-5367.DWG | Layout Tab: Pot3



Source: Figure modified from drawing provided by MPOS 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 September 26, 2002	REVISED DATE
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**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>											
57.83	09/23/87	33.40	10.0-35.0	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*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	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	10.0-35.0	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>
	03/16/01	25.59		32.24	0.00	37,500	76.2	16.6	2,010	7,330	ND
	08/31/01	29.03		28.80	0.00	62,000 <sup>10</sup>	79	<50	3,000	13,000	<250
	03/15/02	25.58		32.25	0.00	26,000	43	22	2,400	10,000	<100
	<b>09/26/02<sup>11</sup></b>	<b>29.51</b>		<b>28.32</b>	<b>0.00</b>	<b>56,000</b>	<b>31</b>	<b>&lt;25</b>	<b>2,500</b>	<b>11,000</b>	<b>&lt;100</b>
MW-2			23.0-48.0								
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	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	09/27/91	36.86	28.0-48.0	21.27	0.00	110	2.6	ND	5.6	5.1	--
(cont)	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	--
	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

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 San Leandro, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2 (cont)	03/16/01	25.41	28.0-48.0	32.72	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	28.74		29.39	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	25.45		32.68	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/26/02 <sup>11</sup>	29.36		28.77	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>MW-3</b>											
57.92	10/03/88	35.86	23.0-48.0	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	--	



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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	03/27/95 <sup>2</sup>	22.78	23.0-48.0	35.14	0.00	33.000	410	66	1.600	6.500	--
(cont)	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>
	03/27/96	21.99		35.93	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)					--
	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>
	03/16/01	25.09		32.83	0.00	678	3.14	1.00	16.4	14.6	42.9
	08/31/01	28.53		29.39	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	25.05		32.87	0.00	1.500	<2.5	<2.5	43	<2.5	<12
	09/26/02 <sup>11</sup>	28.98		28.94	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>MW-4</b>											
58.29	10/03/88	36.12	23.0-48.0	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	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	05/06/91	33.39	23.0-48.0	24.90	0.00	--	--	--	--	--	--
(cont)	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	--
	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	--
	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

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	03/16/01	26.14	23.0-48.0	32.15	0.00	ND	ND	ND	ND	ND	ND
(cont)	08/31/01	29.27		29.02	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	26.07		32.22	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/26/02 <sup>11</sup>	29.95		28.34	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>MW-5</b>											
58.50	02/16/90	35.89	25.0-45.0	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	--	--	--	--	--	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (pph)	B (pph)	T (pph)	E (ppb)	X (ppb)	MTBE (pph)
MW-5	09/28/95	30.15	25.0-45.0	28.35	0.00	ND	ND	ND	ND	ND	--
(cont)	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	
	03/16/01	26.05	32.45	0.00	ND	ND	ND	ND	ND	ND	
	08/31/01	29.32	29.18	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	03/15/02	26.08	32.42	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	09/26/02 <sup>11</sup>	29.96	28.54	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0	
<b>MW-6</b>											
56.96	02/16/90	34.50	25.0-45.0	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	ND	--
	08/24/90	35.32	21.64	0.00	ND	ND	ND	ND	ND	ND	--
	11/30/90	36.38	20.58	0.00	ND	ND	ND	ND	ND	ND	--
	02/06/91	36.27	20.69	0.00	ND	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	ND	--
	12/27/91	36.67	20.29	0.00	ND	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	--	

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	10/16/92	34.92	25.0-45.0	22.04	0.00	ND	ND	ND	ND	ND	--
(cont)	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	--
	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
	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
	03/16/01	24.87		32.09	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	28.20		28.76	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	24.82		32.14	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/26/02 <sup>11</sup>	28.72		28.24	0.00	84 <sup>12</sup>	<0.50	<0.50	<0.50	<1.0	<2.0

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-7												
57.25	02/16/90	35.75	24.0-44.0	21.50	0.00	ND	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	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	ND	--
	05/06/91	32.69		24.56	0.00	ND	ND	ND	ND	ND	ND	--
	09/27/91	36.18		21.07	0.00	ND	ND	ND	ND	ND	ND	--
	12/27/91	36.96		20.29	0.00	ND	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	ND	--
	11/18/92	35.59		21.66	0.00	--	--	--	--	--	--	--
	03/03/93	25.66		31.59	0.00	ND	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	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	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	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	ND
	09/21/96	29.07		28.18	0.00	ND	ND	ND	ND	ND	ND	ND
	03/31/97	24.02		33.23	0.00	ND	ND	ND	ND	ND	ND	ND

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-7	09/27/97	30.84	24.0-44.0	26.41	0.00	ND	ND	ND	ND	ND	ND	ND
(cont)	03/20/98	16.68		40.57	0.00	ND	ND	ND	ND	ND	ND	ND
	09/09/98	25.89		31.36	0.00	ND	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	ND	2.7
	03/24/00	21.23		36.02	0.00	ND	ND	ND	ND	ND	ND	ND
	09/15/00	27.83		29.42	0.00	ND	ND	ND	ND	ND	ND	ND
	03/16/01	25.15		32.10	0.00	ND	ND	ND	ND	ND	ND	ND
	08/31/01	28.49		28.76	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	24.96		32.29	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	<b>09/26/02<sup>11</sup></b>	<b>29.09</b>		<b>28.16</b>	<b>0.00</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;2.0</b>	
<b>MW-8</b>												
57.71	02/16/90	35.10	24.0-44.0	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	--	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	03/18/94	30.12	24.0-44.0	27.59	0.00	6,100	85	ND	260	260	--
(cont)	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	
	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 <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	
	03/16/01	25.43	32.28	0.00	1,000	ND	ND	17.8	44.5	ND	
	08/31/01	28.89	28.82	0.00	6,500 <sup>10</sup>	8.6	7.4	420	1,900	<25	
	03/15/02	25.45	32.26	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	<b>09/26/02<sup>11</sup></b>	<b>29.37</b>	<b>28.34</b>	<b>0.00</b>	<b>290</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>0.65</b>	<b>&lt;1.0</b>	<b>&lt;2.0</b>	
<b>MW-9</b>											
56.47	12/19/94	29.71	20.0-45.0	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	--	--	--	--	--	--



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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (pph)	B (pph)	T (pph)	E (pph)	X (pph)	MTBE (pph)
MW-9	09/28/95	28.23	20.0-45.0	28.24	0.00	ND	ND	ND	ND	ND	--
(cont)	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
	03/16/01	24.24		32.23	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	27.43		29.04	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	24.79		31.68	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/26/02 <sup>11</sup>	<b>INACCESSIBLE - PAVED OVER</b>			--	--	--	--	--	--	--
<b>MW-10</b>											
58.94	07/28/95	25.53	20.0-45.0	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

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	09/08/99	29.97	20.0-45.0	28.97	0.00	ND	ND	ND	ND	ND	ND
(cont)	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
	03/16/01	26.80		32.14	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	30.05		28.89	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	26.61		32.33	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/26/02 <sup>11</sup>	30.68		28.26	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<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
	03/16/01	--	--	--	--	ND	ND	ND	ND	ND	ND
	08/31/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	09/26/02 <sup>11</sup>	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0

**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  
 (ft.) = Feet

DTW = Depth to Water

S.I. = Screen Interval

(ft.bgs) = Feet Below Ground Surface

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

QA = Quality Assurance

\* 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.

<sup>10</sup> Laboratory report indicates unidentified hydrocarbons C6-C10.

<sup>11</sup> TPH-G, BTEX and MTBE by EPA Method 8260.

<sup>12</sup> Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

**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)	EDR (ppb)
MW-1	09/26/02	--	--	<100	--	--	--	--	--
MW-2	09/26/02	--	--	<2.0	--	--	--	--	--
MW-3	09/15/00	<1,000	<100	12.6	<2.00	<2.00	<2.00	<2.00	<2.00
	09/26/02	--	--	<2.0	--	--	--	--	--
MW-4	09/26/02	--	--	<2.0	--	--	--	--	--
MW-5	09/26/02	--	--	<2.0	--	--	--	--	--
MW-6	09/26/02	--	--	<2.0	--	--	--	--	--
MW-7	09/26/02	--	--	<2.0	--	--	--	--	--
MW-8	09/26/02	--	--	<2.0	--	--	--	--	--
MW-9	09/26/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--
MW-10	09/26/02	--	--	<2.0	--	--	--	--	--

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

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**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

**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 <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

<b>WELL ID</b>	<b>DATE</b>	<b>Before Purging (mg/L)</b>	<b>After Purging (mg/L)</b>
<b>MW-6</b>	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
<b>MW-7</b>	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
<b>MW-8</b>	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
<b>MW-9</b>	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
<b>MW-10</b>	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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

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 disposable 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 and is labeled as QA. 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 Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367 Job Number: 180108  
 Site Address: 500 Bancroft Avenue Event Date: 9-26-02 (inclusive)  
 City: San Leandro, CA Sampler: Joe

Well ID: MW-1 Well Condition: OK  
 Well Diameter: 2 1/4 in.  
 Total Depth: 35.14 ft.  
 Depth to Water: 29.51 ft.  
 $5.63 \times VF \ 0.17 = 0.96 \times 3$  (case volume) = Estimated Purge Volume: 3 gal.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Purge Equipment:  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1238 Weather Conditions: Hot  
 Sample Time/Date: 1259 19-26-02 Water Color: clear Odor: mild  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1244</u>	<u>1</u>	<u>7.35</u>	<u>5.87</u>	<u>66.5</u>		
<u>1247</u>	<u>2</u>	<u>7.30</u>	<u>6.44</u>	<u>66.4</u>		
<u>1249</u>	<u>3</u>	<u>7.25</u>	<u>6.53</u>	<u>66.4</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367 Job Number: 180108  
 Site Address: 500 Bancroft Avenue Event Date: 9-26-02 (inclusive)  
 City: San Leandro, CA Sampler: Soe

Well ID: MW-2  
 Well Diameter: 2 1/4 in.  
 Total Depth: 46.75 ft.  
 Depth to Water: 29.36 ft.

Well Condition: O.K.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

17.39 xVF 0.66 = 11.48 x3 (case volume) = Estimated Purge Volume: 34 gal.

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Bailed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1116 Weather Conditions: Hot  
 Sample Time/Date: 1145 19-26-02 Water Color: clear Odor: none  
 Purging Flow Rate: 2.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u/mhos/cm) <sup>x10<sup>2</sup></sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1127</u>	<u>12</u>	<u>7.10</u>	<u>7.92</u>	<u>69.9</u>	_____	_____
<u>1132</u>	<u>21</u>	<u>7.11</u>	<u>8.15</u>	<u>70.5</u>	_____	_____
<u>1138</u>	<u>34</u>	<u>7.14</u>	<u>8.15</u>	<u>70.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>5</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(6260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367  
 Site Address: 500 Bancroft Avenue  
 City: San Leandro, CA

Job Number: 180108  
 Event Date: 9-26-02 (inclusive)  
 Sampler: Joe

Well ID: MW-3  
 Well Diameter: 2 1/4 in.  
 Total Depth: 47.98 ft.  
 Depth to Water: 28.98 ft.

Well Condition: OK

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

19.00 xVF 0.66 = 12.54 x3 (case volume) = Estimated Purge Volume: 38 gal.

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1200 Weather Conditions: Hot  
 Sample Time/Date: 1230 9-26-02 Water Color: clear Odor: some  
 Purging Flow Rate: 2.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1208</u>	<u>12</u>	<u>7.20</u>	<u>4.10</u>	<u>72.1</u>		
<u>1212</u>	<u>25</u>	<u>7.30</u>	<u>3.92</u>	<u>71.6</u>		
<u>1217</u>	<u>38</u>	<u>7.38</u>	<u>4.06</u>	<u>71.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367  
 Site Address: 500 Bancroft Avenue  
 City: San Leandro, CA

Job Number: 180108  
 Event Date: 9-26-02 (inclusive)  
 Sampler: Soe

Well ID: MW-4  
 Well Diameter: 21.9 in.  
 Total Depth: 48.40 ft.  
 Depth to Water: 29.95 ft.

Well Condition: OK

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

18.45 x VF 0.66 = 12.18 x3 (case volume) = Estimated Purge Volume: 37 gal.

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0720 Weather Conditions: Hot  
 Sample Time/Date: 0745 19-26-02 Water Color: clear Odor: none  
 Purging Flow Rate: 2.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>100</sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0730</u>	<u>12</u>	<u>7.50</u>	<u>8.08</u>	<u>72.3</u>		
<u>0734</u>	<u>25</u>	<u>7.48</u>	<u>8.10</u>	<u>72.5</u>		
<u>0738</u>	<u>36</u>	<u>7.51</u>	<u>8.19</u>	<u>72.6</u>		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367  
 Site Address: 500 Bancroft Avenue  
 City: San Leandro, CA

Job Number: 180108  
 Event Date: 9-26-02 (inclusive)  
 Sampler: Soe

Well ID: MW-5  
 Well Diameter: 2 1/4 in.  
 Total Depth: 44.30 ft.  
 Depth to Water: 29.96 ft.

Well Condition: OK

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

14.34 x VF 0.17 = 2.44 x3 (case volume) = Estimated Purge Volume: 7.5 gal.

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0.2 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0800 Weather Conditions: Hot  
 Sample Time/Date: 0822 19-26-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>x100</sup>	Temperature (°C)	D.O. (mg/L)	ORP (mV)
<u>0800</u>	<u>2.5</u>	<u>7.60</u>	<u>9.51</u>	<u>73.9</u>	_____	_____
<u>0810</u>	<u>5</u>	<u>7.68</u>	<u>9.52</u>	<u>74.0</u>	_____	_____
<u>0812</u>	<u>7.5</u>	<u>7.56</u>	<u>9.58</u>	<u>74.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367 Job Number: 180108  
 Site Address: 500 Bancroft Avenue Event Date: 9-26-02 (inclusive)  
 City: San Leandro, CA Sampler: Soe

Well ID: MW-6 Well Condition: O.K.  
 Well Diameter: 21.4 in.  
 Total Depth: 44.62 ft.  
 Depth to Water: 28.72 ft.  
 $15.9 \times VF = 0.17 = 2.70$  x3 (case volume) = Estimated Purge Volume: 8.5 gal.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer  \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description:  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0835 Weather Conditions: flat  
 Sample Time/Date: 0858 19-26-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (CF)	D.O. (mg/L)	ORP (mV)
<u>0845</u>	<u>3</u>	<u>7.28</u>	<u>7.51</u>	<u>72.8</u>		
<u>0847</u>	<u>5.5</u>	<u>7.30</u>	<u>7.62</u>	<u>73.0</u>		
<u>0850</u>	<u>8.5</u>	<u>7.33</u>	<u>7.66</u>	<u>73.2</u>		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: 1 Size: 2"



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367 Job Number: 180108  
 Site Address: 500 Bancroft Avenue Event Date: 9-26-02 (inclusive)  
 City: San Leandro, CA Sampler: Joe

Well ID: MW-7  
 Well Diameter: 214 in.  
 Total Depth: 43.89 ft.  
 Depth to Water: 29.09 ft.

Well Condition: O.K.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

14.8 xVF 0.17 = 2.52 x3 (case volume) = Estimated Purge Volume: 8 gal.

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0912 Weather Conditions: Hot  
 Sample Time/Date: 0933 9-26-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>NW</sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0920</u>	<u>3</u>	<u>7.46</u>	<u>8.58</u>	<u>74.1</u>		
<u>0922</u>	<u>5</u>	<u>7.41</u>	<u>9.00</u>	<u>74.2</u>		
<u>0924</u>	<u>8</u>	<u>7.42</u>	<u>9.10</u>	<u>73.9</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367 Job Number: 180108  
 Site Address: 500 Bancroft Avenue Event Date: 9-26-02 (inclusive)  
 City: San Leandro, CA Sampler: Soc

Well ID: MW-8 Well Condition: OK  
 Well Diameter: 2 1/4 in.  
 Total Depth: 43.71 ft.  
 Depth to Water: 29.37 ft.  
 $14.34 \times VF \ 0.17 = 2.44 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 7.5 \text{ gal.}$

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Bailed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): 0950 Weather Conditions: Hot  
 Sample Time/Date: 1010 9-26-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u/mhos/cm)	Temperature (CE)	D.O. (mg/L)	ORP (mV)
<u>0957</u>	<u>2.5</u>	<u>7.53</u>	<u>6.72</u>	<u>73.0</u>		
<u>0959</u>	<u>5</u>	<u>7.15</u>	<u>7.10</u>	<u>73.8</u>		
<u>1001</u>	<u>7.2</u>	<u>7.18</u>	<u>6.95</u>	<u>74.2</u>		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 x vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367 Job Number: 180108  
 Site Address: 500 Bancroft Avenue Event Date: 9-26-02 (inclusive)  
 City: San Leandro, CA Sampler: Joe

Well ID: MW-9  
 Well Diameter: (2) 4 in.  
 Total Depth: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.

Well Condition: Paved over

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: Well paved over

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5367 Job Number: 180108  
 Site Address: 500 Bancroft Avenue Event Date: 9-26-02 (inclusive)  
 City: San Leandro, CA Sampler: Joe

Well ID: MW-10 Well Condition: 0.1C  
 Well Diameter: 2 1/4 in.  
 Total Depth: 44.55 ft.  
 Depth to Water: 30.68 ft.  
 Volume Factor (VF): 13.87 xVF 0.17 = 2.36 x3 (case volume) = Estimated Purge Volume: 7.5 gal.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Bailed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>6</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1032 Weather Conditions: Hot  
 Sample Time/Date: 1057 / 9-26-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1042</u>	<u>2.5</u>	<u>7.91</u>	<u>8.56</u>	<u>73.3</u>		
<u>1044</u>	<u>5</u>	<u>7.40</u>	<u>8.51</u>	<u>73.0</u>		
<u>1046</u>	<u>7.5</u>	<u>7.44</u>	<u>8.47</u>	<u>73.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

2002-09-0650

69130  
Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number	#5367	Laboratory Name	STL - PLEASANTON, CA
	Facility Address	500 BANCROFT AVE., SAN LEANDRO, CA	Consultant	GETTLER-RYAN, INC. DEANNA L HARDING
	Global ID	T0600101479	Address	6747 SIERRA CT., SUITE J, DUBLIN CA 94568
	Client Contact	MR. DAVID B. DEWITT	Phone	(925) 551-7555 Fax (925) 551-7899
	Phone	(925) 277-2384	Sample Collected by	JOE AJEMIAN

SAMPLE ID	Number of Containers Matrix	S = Soil W = Water A = Air C = Chloroform	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALCALINITY EPA 300 SERIES	HYDROCARBONS (B010) EPA 8021B	VOC'S (B240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W	HCC	9-26-02					✓									Run 8 Oxy's by 8260 on highest 8260 MTBE hit.
MW-1	3	'	'	11259					✓									
MW-2	"	'	'	1145					✓									
MW-3	"	'	'	11230					✓									
MW-4	"	'	'	110745					✓									
MW-5	"	'	'	110822					✓									
MW-6	"	'	'	110858					✓									
MW-7	"	'	'	110933					✓									
MW-8	"	'	'	111010					✓									
<del>MW-9</del>	<del>"</del>	<del>'</del>	<del>'</del>	<del>111010</del>					<del>✓</del>									
MW-10	"	'	'	111057					✓									

- OXYGENATES 8260
- 1 - MTBE
  - 2 - TBA
  - 3 - TAME
  - 4 - DIPE
  - 5 - ETBE
  - 6 - 1,2-DCA
  - 7 - EDB
  - 8 - ETHANOL

Relinquished By (Signature)	Organization	Date/Time 1335 9-26-02	Received By (Signature)	Organization	Date/Time	Iced <i>Y</i>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time 9-26-02	Iced Y/N 1345	

**Gettler Ryan**  
6747 Sierra Court Suite J  
Dublin, CA 94568  
Attn.: Deanna Harding  
Project#: 180108.80  
Project: Tosco #5367  
Site: 500 Bancroft Ave.  
San Leandro, CA

RECEIVED

OCT 12 2002

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566  
Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com  
CA DHS ELAP#:2496

Dear Ms. Harding,

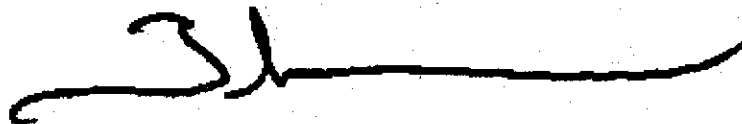
Attached is our report for your samples received on 09/26/2002 13:43  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
11/10/2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [tgranicher@chromalab.com](mailto:tgranicher@chromalab.com)

Sincerely,



Tod Granicher  
Project Manager

## Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J-

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180108.80

Tosco #5367

Received: 09/26/2002 13:43

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Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

## Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	09/26/2002	Water	1
MW-1	09/26/2002 12:59	Water	2
MW-2	09/26/2002 11:45	Water	3
MW-3	09/26/2002 12:30	Water	4
MW-4	09/26/2002 07:45	Water	5
MW-5	09/26/2002 08:22	Water	6
MW-6	09/26/2002 08:58	Water	7
MW-7	09/26/2002 09:33	Water	8
MW-8	09/26/2002 10:10	Water	9
MW-10	09/26/2002 10:57	Water	10

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-09-0650 - 1
Sampled:	09/26/2002	Extracted:	10/7/2002 19:57
Matrix:	Water	QC Batch#:	2002/10/07-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/07/2002 19:57	
Benzene	ND	0.50	ug/L	1.00	10/07/2002 19:57	
Toluene	ND	0.50	ug/L	1.00	10/07/2002 19:57	
Ethylbenzene	ND	0.50	ug/L	1.00	10/07/2002 19:57	
Total xylenes	ND	1.0	ug/L	1.00	10/07/2002 19:57	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/07/2002 19:57	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.3	76-114	%	1.00	10/07/2002 19:57	
Toluene-d8	97.0	88-110	%	1.00	10/07/2002 19:57	

## Gas/BTEX Fuel Oxygenates by 8260B

TRENT

LABORATORY

Gettler Ryan

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Project: 180108.80  
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Site: 500 Bancroft Ave.  
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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2002-09-0650 - 2
Sampled:	09/26/2002 12:59	Extracted:	10/9/2002 13:56
Matrix:	Water	QC Batch#:	2002/10/09-01.62
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	56000	2500	ug/L	50.00	10/09/2002 13:56	
Benzene	31	25	ug/L	50.00	10/09/2002 13:56	
Toluene	ND	25	ug/L	50.00	10/09/2002 13:56	
Ethylbenzene	2500	25	ug/L	50.00	10/09/2002 13:56	
Total xylenes	11000	50	ug/L	50.00	10/09/2002 13:56	
Methyl tert-butyl ether (MTBE)	ND	100	ug/L	50.00	10/09/2002 13:56	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	82.8	76-114	%	50.00	10/09/2002 13:56	
Toluene-d8	95.0	88-110	%	50.00	10/09/2002 13:56	



Gas/BTEX Fuel Oxygenates by 8260B

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San Leandro, CA

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2002-09-0650 - 3
Sampled:	09/26/2002 11:45	Extracted:	10/8/2002 02:35
Matrix:	Water	QC Batch#:	2002/10/07-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/08/2002 02:35	
Benzene	ND	0.50	ug/L	1.00	10/08/2002 02:35	
Toluene	ND	0.50	ug/L	1.00	10/08/2002 02:35	
Ethylbenzene	ND	0.50	ug/L	1.00	10/08/2002 02:35	
Total xylenes	ND	1.0	ug/L	1.00	10/08/2002 02:35	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/08/2002 02:35	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	93.0	76-114	%	1.00	10/08/2002 02:35	
Toluene-d8	96.9	88-110	%	1.00	10/08/2002 02:35	

## Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180108.80

Tosco #5367

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2002-09-0650 - 4
Sampled:	09/26/2002 12:30	Extracted:	10/9/2002 15:24
Matrix:	Water	QC Batch#:	2002/10/09-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/09/2002 15:24	
Benzene	ND	0.50	ug/L	1.00	10/09/2002 15:24	
Toluene	ND	0.50	ug/L	1.00	10/09/2002 15:24	
Ethylbenzene	ND	0.50	ug/L	1.00	10/09/2002 15:24	
Total xylenes	ND	1.0	ug/L	1.00	10/09/2002 15:24	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/09/2002 15:24	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.0	76-114	%	1.00	10/09/2002 15:24	
Toluene-d8	99.9	88-110	%	1.00	10/09/2002 15:24	

## Gas/BTEX Fuel Oxygenates by 8260B

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Tosco #5367

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2002-09-0650 - 5
Sampled:	09/26/2002 07:45	Extracted:	10/8/2002 16:35
Matrix:	Water	QC Batch#:	2002/10/08-01 62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/08/2002 16:35	
Benzene	ND	0.50	ug/L	1.00	10/08/2002 16:35	
Toluene	ND	0.50	ug/L	1.00	10/08/2002 16:35	
Ethylbenzene	ND	0.50	ug/L	1.00	10/08/2002 16:35	
Total xylenes	ND	1.0	ug/L	1.00	10/08/2002 16:35	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/08/2002 16:35	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	87.9	76-114	%	1.00	10/08/2002 16:35	
Toluene-d8	98.2	88-110	%	1.00	10/08/2002 16:35	

Submission #: 2002-09-0650

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180108.80  
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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-5	Lab ID:	2002-09-0650 - 6
Sampled:	09/26/2002 08:22	Extracted:	10/9/2002 15:46
Matrix:	Water	QC Batch#:	2002/10/09-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/09/2002 15:46	
Benzene	ND	0.50	ug/L	1.00	10/09/2002 15:46	
Toluene	ND	0.50	ug/L	1.00	10/09/2002 15:46	
Ethylbenzene	ND	0.50	ug/L	1.00	10/09/2002 15:46	
Total xylenes	ND	1.0	ug/L	1.00	10/09/2002 15:46	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/09/2002 15:46	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.5	76-114	%	1.00	10/09/2002 15:46	
Toluene-d8	97.4	88-110	%	1.00	10/09/2002 15:46	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180108.80  
Tosco #5367

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2002-09-0650 - 7
Sampled:	09/26/2002 08:58	Extracted:	10/9/2002 16:08
Matrix:	Water	QC Batch#:	2002/10/09-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	84	50	ug/L	1.00	10/09/2002 16:08	g
Benzene	ND	0.50	ug/L	1.00	10/09/2002 16:08	
Toluene	ND	0.50	ug/L	1.00	10/09/2002 16:08	
Ethylbenzene	ND	0.50	ug/L	1.00	10/09/2002 16:08	
Total xylenes	ND	1.0	ug/L	1.00	10/09/2002 16:08	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/09/2002 16:08	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.4	76-114	%	1.00	10/09/2002 16:08	
Toluene-d8	98.1	88-110	%	1.00	10/09/2002 16:08	

## Gas/BTEX Fuel Oxygenates by 8260B

TRENT

LABORATORY

Gettler Ryan

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-7	Lab ID:	2002-09-0650 - 8
Sampled:	09/26/2002 09:33	Extracted:	10/8/2002 17:41
Matrix:	Water	QC Batch#:	2002/10/08-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/08/2002 17:41	
Benzene	ND	0.50	ug/L	1.00	10/08/2002 17:41	
Toluene	ND	0.50	ug/L	1.00	10/08/2002 17:41	
Ethylbenzene	ND	0.50	ug/L	1.00	10/08/2002 17:41	
Total xylenes	ND	1.0	ug/L	1.00	10/08/2002 17:41	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/08/2002 17:41	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.6	76-114	%	1.00	10/08/2002 17:41	
Toluene-d8	101.0	88-110	%	1.00	10/08/2002 17:41	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-8	Lab ID: 2002-09-0650 - 9
Sampled: 09/26/2002 10:10	Extracted: 10/8/2002 18:03
Matrix: Water	QC Batch#: 2002/10/08-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	290	50	ug/L	1.00	10/08/2002 18:03	
Benzene	ND	0.50	ug/L	1.00	10/08/2002 18:03	
Toluene	ND	0.50	ug/L	1.00	10/08/2002 18:03	
Ethylbenzene	0.65	0.50	ug/L	1.00	10/08/2002 18:03	
Total xylenes	ND	1.0	ug/L	1.00	10/08/2002 18:03	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/08/2002 18:03	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.3	76-114	%	1.00	10/08/2002 18:03	
Toluene-d8	97.9	88-110	%	1.00	10/08/2002 18:03	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-10	Lab ID:	2002-09-0650 - 10
Sampled:	09/26/2002 10:57	Extracted:	10/8/2002 18:25
Matrix:	Water	QC Batch#:	2002/10/08-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/08/2002 18:25	
Benzene	ND	0.50	ug/L	1.00	10/08/2002 18:25	
Toluene	ND	0.50	ug/L	1.00	10/08/2002 18:25	
Ethylbenzene	ND	0.50	ug/L	1.00	10/08/2002 18:25	
Total xylenes	ND	1.0	ug/L	1.00	10/08/2002 18:25	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/08/2002 18:25	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	93.4	76-114	%	1.00	10/08/2002 18:25	
Toluene-d8	98.7	88-110	%	1.00	10/08/2002 18:25	



Submission #: 2002-09-0650

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2002/10/07-01.62-059

Water

Test(s): 8260FAB

QC Batch # 2002/10/07-01.62

Date Extracted: 10/07/2002 11:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/07/2002 11:51	
Benzene	ND	0.5	ug/L	10/07/2002 11:51	
Toluene	ND	0.5	ug/L	10/07/2002 11:51	
Ethylbenzene	ND	0.5	ug/L	10/07/2002 11:51	
Total xylenes	ND	1.0	ug/L	10/07/2002 11:51	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L	10/07/2002 11:51	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	87.0	76-114	%	10/07/2002 11:51	
Toluene-d8	96.4	88-110	%	10/07/2002 11:51	

## Gas/BTEX Fuel Oxygenates by 8260B

TRENT

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## Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/10/07-02.62-032

Water

Test(s): 8260FAB

QC Batch # 2002/10/07-02.62

Date Extracted: 10/07/2002 22:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/07/2002 22:32	
Benzene	ND	0.5	ug/L	10/07/2002 22:32	
Toluene	ND	0.5	ug/L	10/07/2002 22:32	
Ethylbenzene	ND	0.5	ug/L	10/07/2002 22:32	
Total xylenes	ND	1.0	ug/L	10/07/2002 22:32	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L	10/07/2002 22:32	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	93.2	76-114	%	10/07/2002 22:32	
Toluene-d8	99.7	88-110	%	10/07/2002 22:32	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding  
6747 Sierra-Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180108.80  
Tosco #5367

Received: 09/26/2002 13:43

Site: 500 Bancroft Ave.  
San Leandro, CA

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2002/10/08-01.62	
MB: 2002/10/08-01.62-047				Date Extracted: 10/08/2002 12:32	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/08/2002 12:32	
Benzene	ND	0.5	ug/L	10/08/2002 12:32	
Toluene	ND	0.5	ug/L	10/08/2002 12:32	
Ethylbenzene	ND	0.5	ug/L	10/08/2002 12:32	
Total xylenes	ND	1.0	ug/L	10/08/2002 12:32	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L	10/08/2002 12:32	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	90.0	76-114	%	10/08/2002 12:32	
Toluene-d8	100.0	88-110	%	10/08/2002 12:32	

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CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/10/09-01.62-023

Water

Test(s): 8260FAB

QC Batch # 2002/10/09-01.62

Date Extracted: 10/09/2002 12:23

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/09/2002 12:23	
Benzene	ND	0.5	ug/L	10/09/2002 12:23	
Toluene	ND	0.5	ug/L	10/09/2002 12:23	
Ethylbenzene	ND	0.5	ug/L	10/09/2002 12:23	
Total xylenes	ND	1.0	ug/L	10/09/2002 12:23	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/09/2002 12:23	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	89.7	76-114	%	10/09/2002 12:23	
Toluene-d8	99.4	88-110	%	10/09/2002 12:23	

Submission #: 2002-09-0650

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180108.80  
Tosco #5367

Received: 09/26/2002 13:43

Site: 500 Bancroft Ave.  
San Leandro, CA

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2002/10/07-01.62

LCS 2002/10/07-01.62-008

Extracted: 10/07/2002

Analyzed: 10/07/2002 11:08

LCSD 2002/10/07-01.62-029

Extracted: 10/07/2002

Analyzed: 10/07/2002 11:29

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	26.3	24.8	25.0	105.2	99.2	5.9	65-165	20		
Benzene	24.9	25.2	25.0	99.6	100.8	1.2	69-129	20		
Toluene	25.8	26.7	25.0	103.2	106.8	3.4	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	494	482	500	98.8	96.4		76-114			
Toluene-d8	482	505	500	96.4	101.0		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180108.80

Tosco #5367

Received: 09/26/2002 13:43

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/10/07-02.62**

LCS 2002/10/07-02.62-048

Extracted: 10/07/2002

Analyzed: 10/07/2002 21:48

LCSD 2002/10/07-02.62-010

Extracted: 10/07/2002

Analyzed: 10/07/2002 22:10

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.3	24.5	25.0	101.2	98.0	3.2	69-129	20		
Toluene	25.9	25.5	25.0	103.6	102.0	1.6	70-130	20		
Methyl tert-butyl ether (MTBE)	24.9	23.9	25.0	99.6	95.6	4.1	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	511	508	500	102.2	101.6		76-114			
Toluene-d8	503	486	500	100.6	97.2		88-110			

Submission #: 2002-09-0650

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180108.80  
Tosco #5367

Received: 09/26/2002 13:43

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/10/08-01.62**

LCS 2002/10/08-01.62-046

Extracted: 10/08/2002

Analyzed: 10/08/2002 11:46

LCSD 2002/10/08-01.62-010

Extracted: 10/08/2002

Analyzed: 10/08/2002 12:10

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.9	26.6	25.0	99.6	106.4	6.6	65-165	20		
Benzene	24.9	25.1	25.0	99.6	100.4	0.8	69-129	20		
Toluene	26.1	25.9	25.0	104.4	103.6	0.8	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	502	508	500	100.4	101.6		76-114			
Toluene-d8	502	491	500	100.4	98.2		88-110			

Submission #: 2002-09-0650

Gas/BTEX Fuel Oxygenates by 8260B

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Tosco #5367

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/10/09-01.62

LCS 2002/10/09-01.62-040

Extracted: 10/09/2002

Analyzed: 10/09/2002 11:40

LCSD 2002/10/09-01.62-002

Extracted: 10/09/2002

Analyzed: 10/09/2002 12:02

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.3	24.5	25.0	97.2	98.0	0.8	69-129	20		
Toluene	24.9	26.0	25.0	99.6	104.0	4.3	70-130	20		
Methyl tert-butyl ether (MTBE)	24.9	24.5	25.0	99.6	98.0	1.6	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	494	470	500	98.8	94.0		76-114			
Toluene-d8	484	480	500	96.8	96.0		88-110			



Submission #: 2002-09-0650

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Matrix Spike ( MS / MSD )

Water

QC Batch # 2002/10/08-01.62

MW-3 >> MS

Lab ID: 2002-09-0650 - 004

MS: 2002/10/08-01.62-022

Extracted: 10/08/2002

Analyzed: 10/08/2002 14:22

Dilution: 1.00

MSD: 2002/10/08-01.62-044

Extracted: 10/08/2002

Analyzed: 10/08/2002 14:44

Dilution: 1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.8	24.5	ND	25.0	103.2	98.0	5.2	69-129	20		
Toluene	27.0	26.1	ND	25.0	108.0	104.4	3.4	70-130	20		
Methyl tert-butyl ether	27.1	25.6	ND	25.0	108.4	102.4	5.7	65-165	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	508	494		500	101.7	98.8		76-114			
Toluene-d8	518	499		500	103.5	99.8		88-110			

Submission #: 2002-09-0650

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

### Legend and Notes

#### Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

#### Result Flag

9

Hydrocarbon reported in the gasoline range does not match our gasoline standard.