



# GETTLER-RYAN INC.

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## TRANSMITTAL

Alameda County November 20, 2002

DEC 06 2002

G-R #180065

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

**Environmental Health**  
CC: Mr. David Vossler  
Gettler-Ryan Inc.  
Petaluma, California

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

RE: **Tosco (Unocal) Service Station**  
**#5043**  
**449 Hegenberger Road**  
**Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	November 11, 2002	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of October 9, 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 **December 3, 2002**, this report will be distributed to the following:

cc: Mr. Barney M. Chan, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502  
Beretta Investment Group, 39560 Stevenson Place, Suite 118, Fremont, CA 94539

Enclosure

trans/5043.dbd



# GETTLER - RYAN INC.

November 11, 2002  
G-R Job #180065

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

**RE: Fourth Quarter Event of October 9, 2002**  
Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #5043  
449 Hegenberger Road  
Oakland, 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. Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is 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 Tables 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

Robert C. Mallory  
Registered Geologist No. 7285

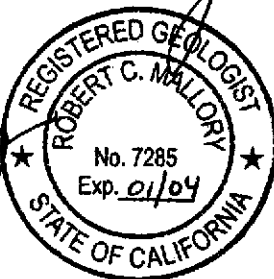
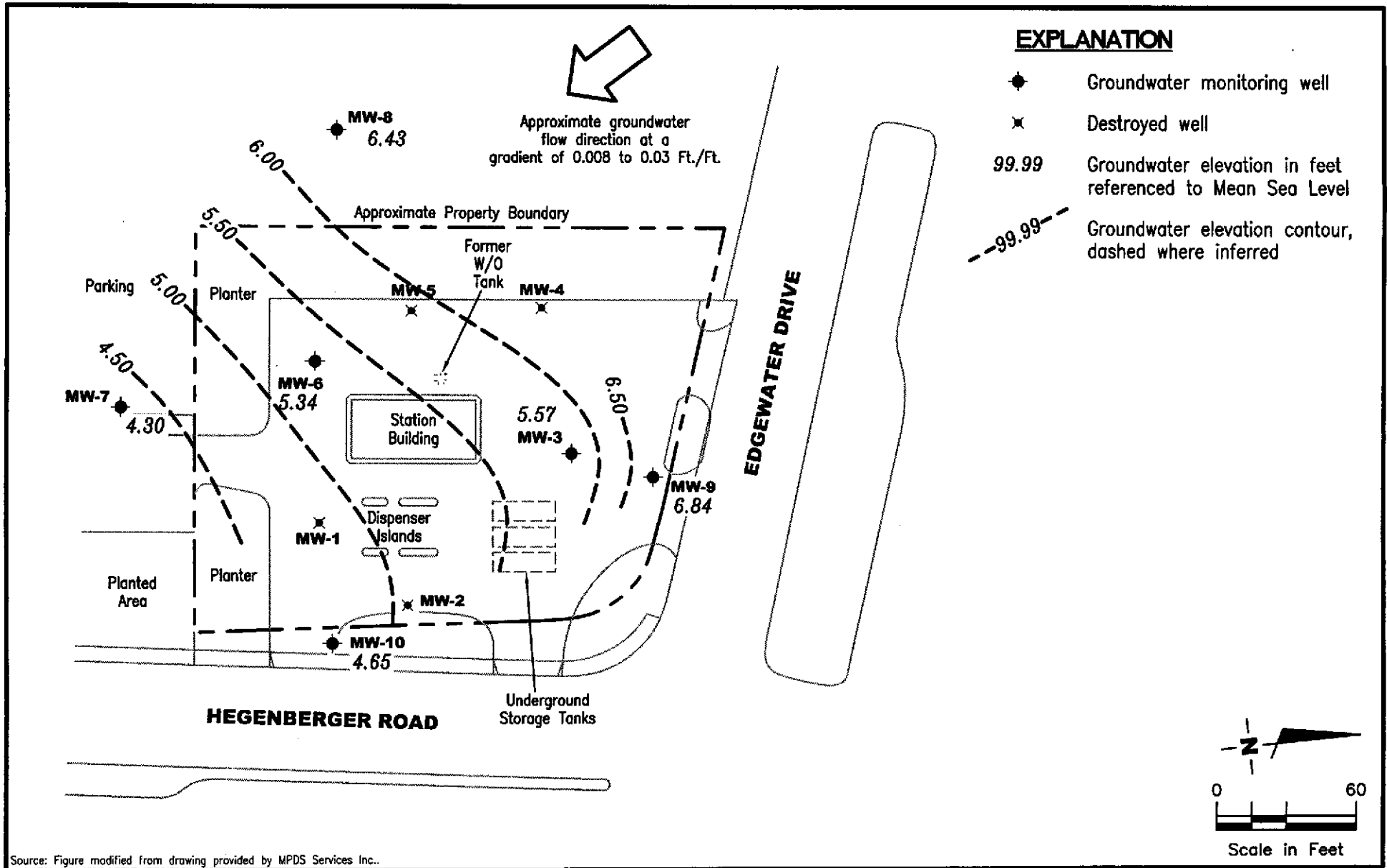


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Table 3: Product Thickness/Removal Data  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field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

5043.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 #5043  
449 Hegenberger Road  
Oakland, California

FIGURE

1

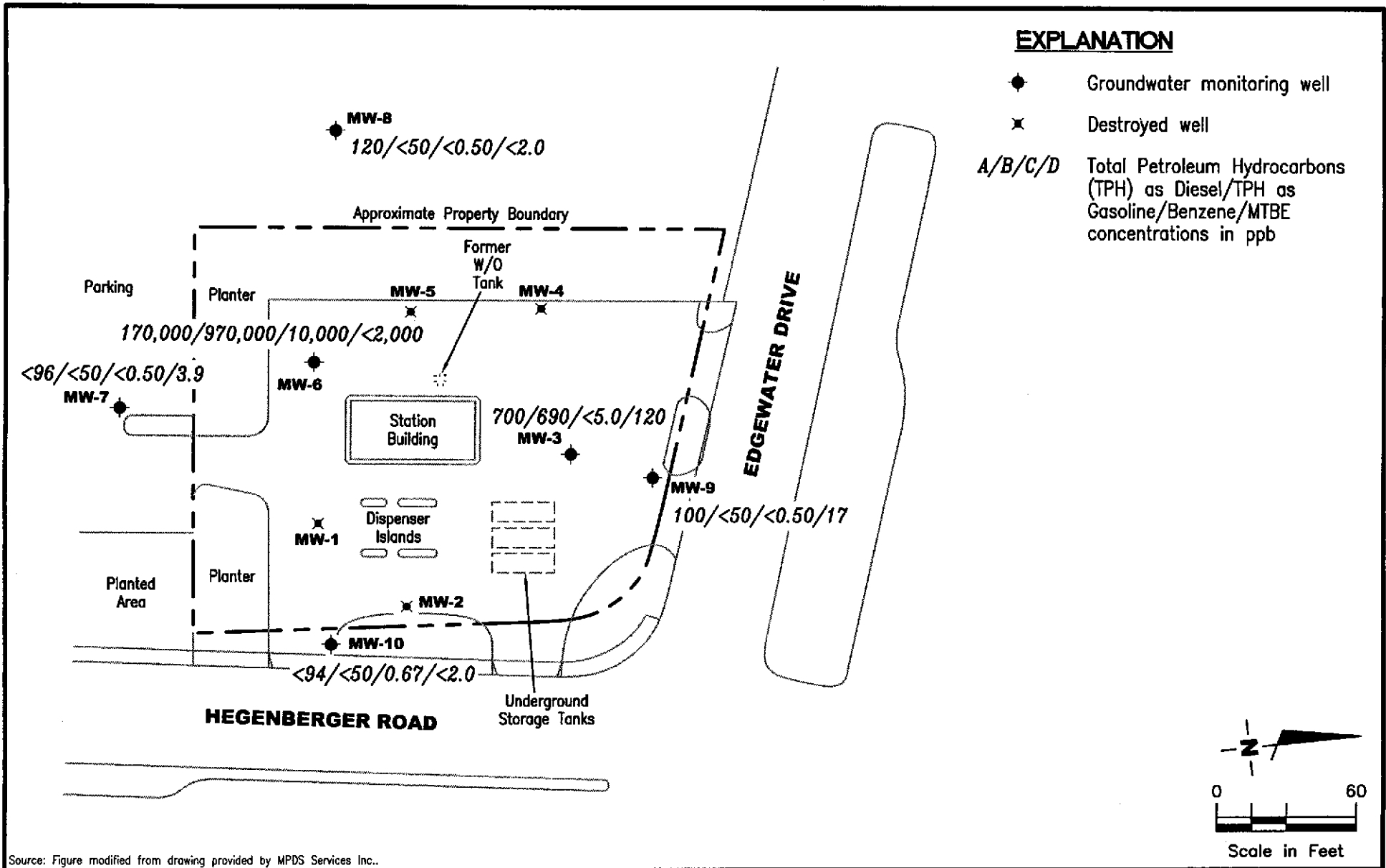
PROJECT NUMBER  
180065

REVIEWED BY

DATE  
October 9, 2002

REVISED DATE

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



**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

FIGURE

2

PROJECT NUMBER  
 180065

REVIEWED BY

DATE  
 October 9, 2002

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5043  
449 Hegenberger Road  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.l.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	02/18/92	--	--	--	--	13,000	150,000	17,000	26,000	5,200	26,000	--
	05/20/92	--	--	--	--	--	--	--	--	--	--	--
	08/31/92	--	--	--	--	8,900 <sup>1</sup>	64,000	13,000	12,000	2,500	22,000	--
	11/30/92	--	--	--	--	--	--	--	--	--	--	--
	02/04/93	--	--	--	--	--	--	--	--	--	--	--
8.96*	05/04/93	2.13		5.73**	0.10	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	08/04/93	2.92		4.88**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
7.38	11/03/93	3.04		4.74	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/07/94	2.55		4.85**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	05/19/94	2.23		5.16**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	06/25/94	2.49		4.90**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	07/27/94	3.10		4.28	0.00	--	--	--	--	--	--	--
	08/15/94	2.85		4.61**	0.11	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	11/14/94	2.97		4.50**	0.12	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/21/95	1.53		5.87**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	DESTROYED											
MW-2	02/18/92	--	--	--	--	4,300	29,000	1,000	5,300	260	7,900	--
	05/20/92	--	--	--	--	4,300 <sup>1</sup>	24,000	2,200	7,600	630	11,000	--
	08/31/92	--	--	--	--	1,600 <sup>1</sup>	9,000	1,800	640	140	2,000	--
	11/30/92	--	--	--	--	5,700 <sup>1</sup>	29,000	2,000	3,400	1,200	6,900	--
	02/04/93	--	--	--	--	6,100 <sup>1</sup>	18,000	1,600	3,000	ND	6,900	--
8.96*	05/04/93	2.48		6.48	0.00	7,100 <sup>1</sup>	63,000	3,200	17,000	470	17,000	--
	08/04/93	3.20		5.76	0.00	1,800 <sup>2</sup>	45,000	2,100	6,600	1,400	12,000	--
8.58	11/03/93	3.37		5.21	0.00	2,600 <sup>2</sup>	72,000	3,700	16,000	3,700	20,000	--
	02/07/94	2.40		6.18	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	05/19/94	2.13		6.45	0.00	3,000 <sup>2</sup>	42,000	2,500	1,300	2,300	13,000	--
	06/25/94	2.65		5.93	0.00	--	--	--	--	--	--	--
	07/27/94	3.44		5.14	0.00	--	--	--	--	--	--	--
	08/15/94	3.25		5.33	0.00	2,800 <sup>2</sup>	35,000	2,400	850	1,700	15,000	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	11/14/94	2.13	--	6.45	0.00	10,000 <sup>1</sup>	43,000	2,200	6,500	1,800	14,000	--
(cont)	02/21/95	1.65		6.93	0.00	2,000 <sup>2</sup>	44,000	2,200	3,200	1,300	1,500	--
	DESTROYED											
MW-3	02/18/92	--	2.5-14.0	--	--	ND	230	4.8	22	1.8	33	--
	05/20/92	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	08/31/92	--		--	--	92 <sup>2</sup>	210 <sup>4</sup>	1	ND	ND	ND	--
	11/30/92	--		--	--	94	790 <sup>4</sup>	ND	ND	ND	ND	--
	02/04/93	--		--	--	550 <sup>2</sup>	3,300	320	ND	96	6.1	--
7.84*	05/04/93	4.32		3.52	0.00	250 <sup>2</sup>	1,800 <sup>3</sup>	95	ND	ND	ND	--
	08/04/93	4.94		2.90	0.00	100	210 <sup>4</sup>	ND	ND	ND	ND	--
7.42	11/03/93	4.53		2.89	0.00	160	640 <sup>4</sup>	ND	ND	ND	ND	--
	02/07/94	2.40		5.02	0.00	620 <sup>2</sup>	2,700	110	ND	17	ND	--
	05/19/94	3.60		3.82	0.00	480 <sup>2</sup>	1,800	83	ND	6.2	9.1	--
	06/25/94	4.58		2.84	0.00	--	--	--	--	--	--	--
	07/27/94	4.58		2.84	0.00	--	--	--	--	--	--	--
	08/15/94	4.65		2.77	0.00	110 <sup>2</sup>	130	1.1	0.54	ND	0.97	--
	11/14/94	3.18		4.24	0.00	150 <sup>2</sup>	1,600 <sup>4</sup>	ND	ND	ND	ND	--
	02/21/95	1.81		5.61	0.00	850 <sup>2</sup>	3,800	350	ND	130	22	--
	05/18/95	4.56		2.86	0.00	150 <sup>1</sup>	1,300 <sup>3</sup>	42	ND	ND	ND	--
	08/17/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	07/26/96	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	10/28/96 <sup>6</sup>	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	01/29/97	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	04/15/97	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	05/27/97	3.45		4.59	0.00	--	670	6.5	ND	ND	ND	250
	06/01/97	3.50		4.54	0.00	610 <sup>2</sup>	--	--	--	--	--	--
8.04	07/15/97	3.71		4.33	0.00	240 <sup>2</sup>	240	ND	ND	ND	ND	490
	10/09/97	3.70		4.34	0.00	500 <sup>2</sup>	270	1.1	ND	2.4	1.4	910
	01/14/98	2.16		5.88	0.00	340 <sup>7</sup>	310	ND	ND	0.62	0.65	140

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WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	04/01/98	2.20	2.5-14.0	5.84	0.00	320 <sup>7</sup>	370	5.7	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	93
(cont)	07/15/98	3.38		4.66	0.00	510 <sup>10</sup>	460 <sup>11</sup>	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	230
	10/16/98	2.30		5.74	0.00	67 <sup>13</sup>	330 <sup>14</sup>	4.7	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	60
	01/25/99	2.42		5.62	0.00	120 <sup>7</sup>	420 <sup>14</sup>	1.5	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	180
	04/15/99	2.16		5.88	0.00	170 <sup>17</sup>	290	0.54	ND	ND	ND	160
	07/14/99	2.35		5.69	0.00	420 <sup>19</sup>	290	3.2	ND	ND	ND	160
	10/21/99	2.49		5.55	0.00	350 <sup>7</sup>	360 <sup>23</sup>	0.77	ND	ND	ND	82
	01/20/00	2.38		5.66	0.00	2,060 <sup>1</sup>	ND	0.81	ND	ND	ND	54
	04/13/00	2.76		5.28	0.00	200 <sup>21</sup>	250 <sup>23</sup>	0.69	ND	ND	ND	91/150 <sup>26</sup>
	07/14/00	3.26		4.78	0.00	423 <sup>7</sup>	345 <sup>27</sup>	ND	ND	ND	ND	94.7
	10/26/00	3.12		4.92	0.00	330 <sup>29</sup>	480 <sup>23</sup>	6.0	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	120
	01/03/01	3.65		4.39	0.00	287 <sup>7</sup>	364 <sup>27</sup>	1.59	ND	ND	ND	118
	04/04/01	3.98		4.06	0.00	360 <sup>7</sup>	417 <sup>27</sup>	1.24	ND	ND	0.802	237
	07/17/01	3.12		4.92	0.00	270 <sup>28</sup>	480 <sup>27</sup>	ND	ND	ND	ND	150
	10/01/01	3.25		4.79	0.00	270 <sup>7</sup>	310 <sup>27</sup>	1.0	<0.50	<0.50	<0.50	53
	01/31/02	2.27		5.77	0.00	250 <sup>34</sup>	250 <sup>32</sup>	3.5	<1.0	<1.0	<1.0	110
	04/18/02	3.55		4.49	0.00	320 <sup>35</sup>	300	<2.0	<2.0	<2.0	<2.0	59
	07/28/02 <sup>36</sup>	2.55		5.49	0.00	310 <sup>35</sup>	500	<0.50	<0.50	<0.50	<1.0	130
	10/09/02 <sup>36</sup>	2.47		5.57	0.00	700 <sup>35</sup>	690 <sup>35</sup>	<5.0	<5.0	<5.0	<10	120
MW-4	08/31/92	--	--	--	--	90 <sup>2</sup>	240 <sup>4</sup>	ND	ND	ND	0.54	--
	11/30/92	--	--	--	--	61	420 <sup>4</sup>	ND	ND	ND	ND	--
	02/04/93	--	--	--	--	ND	ND	ND	ND	ND	ND	--
9.00*	05/04/93	4.09		4.91	0.00	ND	110 <sup>3</sup>	0.95	ND	ND	ND	--
	08/04/93	5.01		3.99	0.00	81	250 <sup>4</sup>	ND	3.5	ND	4.1	--
8.41	11/03/93	4.23		4.18	0.00	68	130 <sup>4</sup>	ND	ND	ND	ND	--
	02/07/94	3.35		5.06	0.00	ND	56 <sup>4</sup>	ND	ND	ND	ND	--
	05/19/94	3.92		4.49	0.00	90 <sup>2</sup>	140 <sup>4</sup>	ND	ND	ND	ND	--
	06/25/94	4.35		4.06	0.00	--	--	--	--	--	--	--
	07/27/94	4.28		4.13	0.00	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	08/15/94	4.27	--	4.14	0.00	72 <sup>2</sup>	59 <sup>4</sup>	ND	0.6	ND	ND	--
(cont)	11/14/94	4.05		4.36	0.00	ND	130 <sup>4</sup>	ND	ND	ND	ND	--
	DESTROYED											
MW-5	08/31/92	--	--	--	--	690 <sup>1</sup>	78	0.89	ND	ND	13	--
	11/30/92 <sup>5</sup>	--		--	--	470 <sup>2</sup>	930	70	290	0.79	14	--
	02/04/93 <sup>5</sup>	--		--	--	5,500 <sup>2</sup>	5,700	38	ND	620	170	--
	05/04/93 <sup>5</sup>	4.37		4.90	0.00	4,600 <sup>1</sup>	7,400	41	ND	1,000	35	--
	08/04/93 <sup>5</sup>	5.81		3.46	0.00	970 <sup>2</sup>	1,500	130	1	460	11	--
8.95	11/03/93	5.68		3.27	0.00	2,100 <sup>2</sup>	13,000	350	ND	3,500	530	--
	02/07/94	5.11		3.84	0.00	830 <sup>2</sup>	2,000	87	ND	370	110	--
	05/19/94	5.09		3.86	0.00	600 <sup>2</sup>	260	44	ND	32	4.1	--
	06/25/94	4.55		4.40	0.00	--	--	--	--	--	--	--
	07/27/94	5.72		3.23	0.00	--	--	--	--	--	--	--
	08/15/94	5.68		3.27	0.00	860 <sup>2</sup>	1,600	110	ND	340	72	--
	11/14/94	5.63		3.32	0.00	290 <sup>1</sup>	250	40	ND	ND	5	--
	DESTROYED											
MW-6	08/31/92	--	2.5-13.5	--	--	750 <sup>2</sup>	ND	ND	ND	ND	ND	--
	11/30/92	--		--	--	1,400 <sup>1</sup>	9,200	550	ND	740	1,600	--
	02/04/93	--		--	--	890 <sup>2</sup>	3,600	340	ND	290	550	--
9.12*	05/04/93	3.72		5.40	0.00	1,800 <sup>1</sup>	4,900	360	18	450	430	--
	08/04/93	5.15		3.97	0.00	1,100 <sup>2</sup>	3,400	390	ND	440	190	--
8.87	11/03/93	5.25		3.62	0.00	390 <sup>2</sup>	1,400	320	ND	200	7.7	--
	02/07/94	4.55		4.32	0.00	970 <sup>2</sup>	4,900	650	ND	250	35	--
	05/19/94	4.62		4.25	0.00	1,400 <sup>2</sup>	3,600	300	1.7	210	41	--
	08/15/94	5.08		3.79	0.00	790 <sup>2</sup>	1,300	130	6.7	54	57	--
	11/14/94	5.30		3.57	0.00	800 <sup>2</sup>	730	50	ND	ND	39	--
	02/21/95	5.37		3.50	0.00	730 <sup>2</sup>	2,000	250	4.6	25	30	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
					Thickness (ft.)							
MW-6	05/18/95	--	2.5-13.5	INACCESSIBLE		--	--	--	--	--	--	--
(cont)	08/17/95	--		INACCESSIBLE		--	--	--	--	--	--	--
	07/26/96	6.40		5.03**	3.33	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	10/28/96	4.10		4.93**	0.21	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	11/13/96	4.02		5.04**	0.25	--	--	--	--	--	--	--
	11/25/96	4.01		5.44**	0.75	--	--	--	--	--	--	--
	12/04/96	3.65		5.61**	0.50	--	--	--	--	--	--	--
	12/19/96	4.80		5.76**	2.20	--	--	--	--	--	--	--
	01/08/97	4.84		5.38**	1.75	--	--	--	--	--	--	--
	01/14/97	4.51		5.25**	1.15	--	--	--	--	--	--	--
	01/27/97	4.00		6.22**	1.75	--	--	--	--	--	--	--
	01/29/97	3.24		5.87**	0.31	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	02/11/97	4.65		5.14**	1.20	--	--	--	--	--	--	--
	02/24/97	4.81		4.91**	1.10	--	--	--	--	--	--	--
	03/10/97	4.60		5.00**	0.95	--	--	--	--	--	--	--
	03/17/97	4.50		5.06**	0.89	--	--	--	--	--	--	--
	03/31/97	4.65		4.99**	1.00	--	--	--	--	--	--	--
	04/15/97	4.90		4.76**	1.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	04/28/97	4.78		4.11**	0.03	--	--	--	--	--	--	--
	05/15/97	4.60		4.46**	0.25	--	--	--	--	--	--	--
	05/27/97	4.50		4.56**	0.25	--	--	--	--	--	--	--
	06/09/97	4.60		4.42**	0.20	--	--	--	--	--	--	--
	06/24/97	4.50		4.56**	0.25	--	--	--	--	--	--	--
	07/09/97	4.80		4.53**	0.60	--	--	--	--	--	--	--
	07/15/97	4.63		4.56**	0.42	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	07/21/97	4.75		4.31**	0.25	--	--	--	--	--	--	--
	08/06/97	4.50		4.45**	0.10	--	--	--	--	--	--	--
	08/20/97	4.55		4.40**	0.10	--	--	--	--	--	--	--
	09/02/97	4.75		4.16**	0.05	--	--	--	--	--	--	--
	10/09/97	4.84		4.06**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	01/14/98	3.90		5.69**	0.94	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product								
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-6	02/12/98	3.35	2.5-13.5	6.01**	0.64	--	--	--	--	--	--	--	--
(cont)	03/03/98	4.51		4.38**	0.02	--	--	--	--	--	--	--	--
	04/01/98	3.67		6.43**	1.60	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	05/26/98	4.11		5.15**	0.50	--	--	--	--	--	--	--	--
	06/15/98	5.03		4.07**	0.30	--	--	--	--	--	--	--	--
	07/15/98	4.56		4.35**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	08/21/98	4.77		4.12**	0.02	--	--	--	--	--	--	--	--
	09/30/98	5.08		3.81**	0.03	--	--	--	--	--	--	--	--
	10/16/98	4.31		6.41**	2.40	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	11/06/98	3.98		5.02**	0.17	--	--	--	--	--	--	--	--
	11/25/98	3.92		5.03**	0.10	--	--	--	--	--	--	--	--
	12/28/98	3.90		5.12**	0.20	--	--	--	--	--	--	--	--
	01/25/99	4.18		5.15**	0.60	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	02/22/99	4.07		4.97**	0.22	--	--	--	--	--	--	--	--
	03/22/99	4.32		4.67**	0.15	--	--	--	--	--	--	--	--
	04/15/99	4.23		5.37**	0.95	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	05/28/99	4.38		4.79**	0.39	--	--	--	--	--	--	--	--
	06/29/99	4.12		4.77**	0.02	--	--	--	--	--	--	--	--
	07/14/99	4.20		4.69**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	08/23/99	4.51		4.54**	0.24	--	--	--	--	--	--	--	--
	09/30/99	4.17		4.83**	0.17	--	--	--	--	--	--	--	--
	10/21/99	4.27		4.69**	0.12	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	11/29/99	4.18		4.69	<0.01	--	--	--	--	--	--	--	--
	12/20/99	4.26		4.62**	0.01	--	--	--	--	--	--	--	--
	01/20/00	4.31		4.56	<0.01	67,600 <sup>1</sup>	130,000 <sup>23</sup>	2,900	8,600	2,000	16,000	ND <sup>9</sup>	
	02/26/00	3.98		4.89	0.00	--	--	--	--	--	--	--	--
	03/31/00	4.14		4.73	0.00	--	--	--	--	--	--	--	--
	04/13/00	4.04		4.83	0.00	8,700 <sup>7</sup>	140,000 <sup>23</sup>	5,000	14,000	3,600	27,000	7,700	
	05/26/00	4.41		4.46	0.00	--	--	--	--	--	--	--	--
	06/17/00	4.35		4.52	0.00	--	--	--	--	--	--	--	--
	07/14/00	4.47		4.40	<0.01	133,000 <sup>7</sup>	259,000 <sup>23</sup>	7,670	13,700	6,860	40,700	<sup>9</sup> ND/ND <sup>9,26</sup>	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	08/24/00	3.71	2.5-13.5	5.16	0.00	--	--	--	--	--	--	--
(cont)	09/27/00	4.33		4.54	0.00	--	--	--	--	--	--	--
	10/26/00	4.32		4.55	0.00	61,000 <sup>28</sup>	110,000 <sup>23</sup>	7,000	6,200	3,700	12,000	670/43 <sup>30</sup>
	01/03/01	4.52		4.35	0.00	929 <sup>7</sup>	84,700 <sup>23</sup>	3,950	4,130	3,650	11,800	<sup>9</sup> ND/ND <sup>9,26</sup>
	04/04/01	4.29		4.58	0.00	18,000 <sup>28</sup>	69,800 <sup>23</sup>	2,060	2,840	3,650	10,900	<sup>9</sup> ND/47.8 <sup>26</sup>
	07/17/01	4.37		4.50	0.00	20,000 <sup>31</sup>	100,000 <sup>23</sup>	3,200	3,300	3,400	12,000	ND <sup>9</sup>
	10/01/01	4.45		4.42	0.00	24,000 <sup>7</sup>	110,000 <sup>23</sup>	3,200	2,400	4,500	13,000	<1,000
	01/31/02	4.03		4.84	0.00	11,000 <sup>34</sup>	230,000 <sup>32</sup>	2,400	1,800	5,400	16,000	<2,500
	04/18/02	3.45		5.42	0.00	3,500 <sup>35</sup>	94,000	6,800	13,000	3,000	19,000	<500
	07/28/02 <sup>36</sup>	2.24		6.63	0.00	27,000 <sup>35</sup>	110,000	530	170	3,200	7,300	<100
	10/09/02 <sup>36</sup>	3.53		5.34	0.00	170,000 <sup>35</sup>	970,000	10,000	39,000	13,000	94,000	<2,000
MW-7	05/27/97	4.50	3.0-13.0	4.33	0.00	--	68	ND	ND	ND	ND	ND
8.83	06/01/97	4.54		4.29	0.00	69 <sup>2</sup>	--	--	--	--	--	--
	07/15/97	4.70		4.13	0.00	ND	ND	ND	ND	ND	ND	ND
	10/09/97	4.30		4.53	0.00	190 <sup>1</sup>	ND	ND	ND	ND	ND	ND
	01/14/98	2.88		5.95	0.00	65 <sup>7</sup>	ND	ND	ND	ND	ND	36
	04/01/98	3.13		5.70	0.00	ND	ND	ND	ND	ND	ND	ND
	07/15/98	4.45		4.38	0.00	74 <sup>12</sup>	ND	ND	ND	ND	ND	ND
	10/16/98	3.45		5.38	0.00	ND	ND	ND	ND	ND	ND	ND
	01/25/99	3.22		5.61	0.00	ND	ND	ND	ND	ND	ND	ND
	04/15/99	3.11		5.72	0.00	ND	ND	ND	ND	ND	ND	ND
	07/14/99	3.34		5.49	0.00	69 <sup>20</sup>	ND	ND	ND	ND	ND	ND
	10/21/99	3.43		5.40	0.00	ND	ND	ND	ND	ND	ND	ND
	01/20/00	3.29		5.54	0.00	ND	ND	ND	ND	ND	ND	4.2
	04/13/00	3.39		5.44	0.00	ND <sup>9</sup>	ND	ND	ND	ND	ND	ND
	07/14/00	4.42		4.41	0.00	68.0 <sup>7</sup>	ND	ND	ND	ND	ND	7.83
	07/17/01	5.06		3.77	0.00	ND	ND	ND	ND	ND	ND	ND
	10/01/01	4.98		3.85	0.00	<51	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	01/31/02	3.88		4.95	0.00	90 <sup>34</sup>	<50	<0.50	<0.50	<0.50	<0.50	<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5043  
449 Hegenberger Road  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product								
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-7 (cont)	04/18/02	4.03	3.0-13.0	4.80	0.00	78 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.7
	07/28/02 <sup>36</sup>	3.59		5.24	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	3.9
	10/09/02 <sup>36</sup>	4.53		4.30	0.00	<96	<50	<0.50	<0.50	<0.50	<0.50	<1.0	3.9
MW-8 8.52	05/27/97	3.42	3.0-15.0	5.10	0.00	--	310	0.88	0.67	15	70	ND	
	06/01/97	3.46		5.06	0.00	320 <sup>2</sup>	--	--	--	--	--	--	
	07/15/97	3.49		5.03	0.00	ND	ND	ND	ND	ND	2.7	3.8	ND
	10/09/97	3.73		4.79	0.00	390 <sup>1</sup>	590	1.4	ND	ND	32	4.1	ND
	01/14/98	1.92		6.60	0.00	230 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND
	04/01/98	2.38		6.14	0.00	510 <sup>7</sup>	ND	ND	ND	ND	ND	ND	4.7
	07/15/98	3.53		4.99	0.00	140 <sup>12</sup>	ND	ND	ND	ND	0.56	1.1	ND
	10/16/98	3.04		5.48	0.00	170 <sup>15</sup>	ND	ND	ND	ND	ND	ND	ND
	01/25/99	2.92		5.60	0.00	ND <sup>9</sup>	ND	ND	ND	ND	ND	ND	ND
	04/15/99	2.40		6.12	0.00	91 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND
	07/14/99	3.03		5.49	0.00	120 <sup>21</sup>	ND	ND	ND	ND	ND	ND	ND
	10/21/99	3.11		5.41	0.00	110 <sup>24</sup>	ND	ND	ND	ND	ND	ND	ND
	01/20/00	3.06		5.46	0.00	583 <sup>1</sup>	ND	ND	ND	ND	ND	ND	ND
	04/13/00	2.84		5.68	0.00	80 <sup>24</sup>	ND	ND	ND	ND	ND	ND	ND
	07/14/00	3.39		5.13	0.00	113 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND
	07/17/01	3.46		5.06	0.00	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/01	3.51		5.01	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0
	01/31/02	2.75		5.77	0.00	260 <sup>34</sup>	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/18/02	2.98		5.54	0.00	160 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/28/02 <sup>36</sup>	2.41		6.11	0.00	140 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
10/09/02 <sup>36</sup>	2.09	6.43	0.00	120 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0		

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 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	02/21/95	1.98	3.0-13.0	6.31	0.00	71 <sup>2</sup>	70 <sup>4</sup>	ND	ND	ND	ND	--
8.29	05/18/95	3.47		4.82	0.00	ND	52	ND	1.1	ND	1.9	--
	08/17/95	1.49		6.80	0.00	ND	ND	ND	ND	ND	ND	--
	07/26/96	0.28		8.01	0.00	98	ND	ND	ND	ND	ND	ND
	10/28/96	1.15		7.14	0.00	99 <sup>1</sup>	ND	ND	ND	ND	ND	7.6
	01/29/97	1.05		7.24	0.00	54	ND	ND	ND	ND	ND	5.4
	04/15/97	1.88		6.41	0.00	94 <sup>1</sup>	ND	ND	ND	ND	ND	5.4
	05/27/97	1.05		7.24	0.00	--	--	--	--	--	--	--
	07/15/97	1.90		6.39	0.00	ND	ND	ND	ND	ND	ND	ND
	10/09/97	1.76		6.53	0.00	160 <sup>1</sup>	ND	ND	ND	ND	ND	ND
	01/14/98	1.26		7.03	0.00	110 <sup>7</sup>	ND	ND	ND	ND	ND	3.0
	04/01/98	0.85		7.44	0.00	110 <sup>7</sup>	ND	ND	ND	ND	ND	ND
	07/15/98	1.52		6.77	0.00	200 <sup>12</sup>	ND	ND	ND	ND	ND	ND
	10/16/98	0.81		7.48	0.00	ND	ND	ND	ND	ND	ND	ND
	01/25/99	0.92		7.37	0.00	ND	ND	ND	ND	ND	ND	ND
	04/15/99	0.90		7.39	0.00	ND	75 <sup>18</sup>	21	ND	ND	1.1	680
	07/14/99	1.04		7.25	0.00	140 <sup>21</sup>	ND	1.9	ND	ND	ND	260
	10/21/99	1.23		7.06	0.00	210 <sup>24</sup>	ND	ND	ND	ND	ND	170
	01/20/00	1.18		7.11	0.00	519 <sup>1</sup>	ND	1.1	ND	ND	ND	35
	04/13/00	1.08		7.21	0.00	81 <sup>25</sup>	160 <sup>23</sup>	0.64	ND	ND	ND	53
	07/14/00	1.43		6.86	0.00	107 <sup>7</sup>	ND	ND	ND	ND	ND	20.2
	10/26/00	1.38		6.91	0.00	240 <sup>7</sup>	240 <sup>23</sup>	2.9	ND	ND	ND	56
	01/03/01	1.66		6.63	0.00	164 <sup>7</sup>	166 <sup>27</sup>	0.763	0.776	ND	1.28	50.2
	04/04/01	1.27		7.02	0.00	240 <sup>7</sup>	296 <sup>27</sup>	0.738	ND	ND	0.907	135
	07/17/01	1.38		6.91	0.00	ND	ND	ND	ND	ND	ND	13
	10/01/01	1.93		6.36	0.00	<52	51 <sup>18</sup>	<0.50	<0.50	<0.50	<0.50	5.0
	01/31/02	2.08		6.21	0.00	200 <sup>34</sup>	<50	<0.50	<0.50	<0.50	<0.50	5.8
	04/18/02	1.76		6.53	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	5.1
	07/28/02 <sup>36</sup>	1.57		6.72	0.00	<50	<50	<0.50	<0.50	<0.50	<1.0	3.5
	10/09/02 <sup>36</sup>	1.45		6.84	0.00	100 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<1.0	17

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 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	02/21/95	4.69	3.0-13.0	3.93	0.00	270 <sup>2</sup>	1,500	250	26	9.1	160	--
8.62	05/18/95	4.92		3.70	0.00	75 <sup>1</sup>	810	520	ND	18	23	--
	08/17/95	4.05	4.57	0.00	ND	67	25	ND	2.4	ND	--	
	07/26/96	4.08	4.54	0.00	ND	ND	3.7	ND	ND	ND	ND	
	10/28/96	4.09	4.53	0.00	ND	ND	1.1	ND	ND	ND	ND	
	01/29/97	2.94	5.68	0.00	ND	210	41	0.67	7.2	4.8	11	
	04/15/97	4.07	4.55	0.00	ND	110	12	ND	0.77	ND	9.7	
	05/27/97	4.40	4.22	0.00	--	--	--	--	--	--	--	
	07/15/97	4.19	4.43	0.00	ND	ND	2.1	ND	0.67	0.73	ND	
	10/09/97	4.75	3.87	0.00	ND	190	38	0.92	6.6	7.6	ND	
	01/14/98	2.66	5.96	0.00	-- <sup>8</sup>	59	9.5	0.85	1.2	1.7	4.5	
	04/01/98	3.45	5.17	0.00	62 <sup>7</sup>	230	66	1.7	12	17	6.4	
	07/15/98	4.21	4.41	0.00	78 <sup>12</sup>	290	98	45	21	38	21	
	10/16/98	4.11	4.51	0.00	ND	160 <sup>16</sup>	44	0.96	2.5	10	17	
	01/25/99	3.26	5.36	0.00	ND	140	27	ND	2.8	6.8	23	
	04/15/99	3.63	4.99	0.00	ND	120	18	ND	1.8	5.1	14	
	07/14/99	3.89	4.73	0.00	180 <sup>22</sup>	280	55	3.2	11	31	6.1	
	10/21/99	4.09	4.53	0.00	96 <sup>7</sup>	140 <sup>23</sup>	22	0.59	1.7	7.7	5.3	
	01/20/00	3.92	4.70	0.00	252 <sup>1</sup>	ND	0.73	0.86	ND	ND	5.2	
	04/13/00	3.85	4.77	0.00	69 <sup>24</sup>	67 <sup>23</sup>	54	ND	2.6	ND	3.8	
	07/14/00	4.18	4.44	0.00	149 <sup>7</sup>	ND	0.547	ND	ND	ND	ND	
	10/26/00	3.96	4.66	0.00	83 <sup>24</sup>	ND	3.3	ND	0.83	1.5	ND	
	01/03/01	4.14	4.48	0.00	126 <sup>7</sup>	52.7 <sup>23</sup>	5.15	ND	0.823	1.57	ND	
	04/04/01	3.88	4.74	0.00	75 <sup>24</sup>	129 <sup>23</sup>	28.1	1.67	4.97	10.1	ND	
	07/17/01	4.08	4.54	0.00	ND	ND	4.1	ND	1.0	1.8	ND	
	10/01/01	4.22	4.40	0.00	100 <sup>7</sup>	140 <sup>23</sup>	30	0.51	4.0	12	<5.0	
	01/31/02	3.68	4.94	0.00	170 <sup>34</sup>	110 <sup>33</sup>	16	<0.50	2.3	5.6	<2.5	
	04/18/02	4.01	4.61	0.00	130 <sup>35</sup>	<50	11	<0.50	1.4	4.5	<2.5	
	07/28/02 <sup>36</sup>	4.11	4.51	0.00	58	67	15	<0.50	0.94	7.3	<2.0	
	10/09/02 <sup>36</sup>	3.97	4.65	0.00	<94	<50	0.67	<0.50	<0.50	<1.0	<2.0	

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 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product		B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
					Thickness (ft.)	TPH-D (ppb)						
<b>Trip Blank</b>												
TB-LB	01/14/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/01/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/15/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/16/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	01/25/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/15/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/14/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/21/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	01/20/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/13/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/14/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/26/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	01/03/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/04/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/17/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/01/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	01/31/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/18/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	07/28/02 <sup>36</sup>	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	10/09/02 <sup>37</sup>	--	--	--	--	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to January 14, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	TPH-D = Total Petroleum Hydrocarbons as Diesel	(ppb) = Parts per billion
DTW = Depth to Water	TPH-G = Total Petroleum Hydrocarbons as Gasoline	ND = Not Detected
(ft.) = Feet	B = Benzene	-- = Not Measured/Not Analyzed
S. I. = Screen Interval	T = Toluene	QA = Quality Assurance
(ft.bgs) = Feet Below Ground Surface	E = Ethylbenzene	
GWE = Groundwater Elevation	X = Xylenes	
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	

- \* TOC elevations are relative to msl, per the City of Oakland Benchmark #3880, (Elevation = 20.37 feet, msl).
- \*\* GWE corrected for the presence of free product; correction factor: [(TOC - DTW) + (Product Thickness x 0.77)].
- ◆ Elevations were based on the top of the well covers and were surveyed relative to msl, per the City of Oakland Benchmark #3880, (Elevation = 20.37 feet).
- 1 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 2 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 3 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 4 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 5 Total Oil and Grease (TOG) was ND.
- 6 The well was obstructed with debris at 0.55 feet. A water sample was collected but was not analyzed as it was considered not representative of groundwater in this well.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Sample bottle broken at laboratory.
- 9 Detection limit raised. Refer to analytical reports.
- 10 Laboratory report indicates unidentified hydrocarbons >C14 and <C12.
- 11 Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
- 12 Laboratory report indicates unidentified hydrocarbons >C14.
- 13 Laboratory report indicates non diesel mix >C14.
- 14 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
- 15 Laboratory report indicates non diesel mix C9-C27.
- 16 Laboratory report indicates unidentified hydrocarbons <C7.
- 17 Laboratory report indicates unidentified hydrocarbons >C10.
- 18 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 19 Laboratory report indicates unidentified hydrocarbons >C9.
- 20 Laboratory report indicates discrete peaks and unidentified hydrocarbons >C20.



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5043  
449 Hegenberger Road  
Oakland, California

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**EXPLANATIONS: (cont)**

- 21 Laboratory report indicates discrete peaks and unidentified hydrocarbons >C16.
- 22 Laboratory report indicates unidentified hydrocarbons <C14 and >C16.
- 23 Laboratory report indicates gasoline C6-C12.
- 24 Laboratory report indicates unidentified hydrocarbons >C16.
- 25 Laboratory report indicates discrete peaks.
- 26 MTBE by EPA Method 8260.
- 27 Laboratory report indicates weathered gasoline C6-C12.
- 28 Laboratory report indicates unidentified hydrocarbons <C16.
- 29 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 30 MTBE by EPA Method 8260 was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
- 31 Laboratory report indicates diesel C9-C24.
- 32 Laboratory report indicates unidentified hydrocarbons C6-C10.
- 33 Laboratory report indicates gasoline C6-C10.
- 34 Laboratory report indicates unidentified hydrocarbons C10-C28.
- 35 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 36 TPH-G, BTEX and MTBE by EPA Method 8260.
- 37 Laboratory did not report analysis for the Trip Blank; as requested on the Chain of Custody.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	04/13/00	ND	ND	150	ND	ND	ND	ND	ND
	07/28/02	--	--	130	--	--	--	--	--
	10/09/02	--	--	120	--	--	--	--	--
MW-6	07/14/00	--	--	ND <sup>1</sup>	--	--	--	--	--
	10/26/00	--	--	43 <sup>2</sup>	--	--	--	--	--
	01/03/01	--	--	ND <sup>1</sup>	--	--	--	--	--
	04/04/01	ND <sup>1</sup>	ND <sup>1</sup>	47.8	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
	07/28/02	--	--	<100	--	--	--	--	--
	10/09/02	--	--	<2,000	--	--	--	--	--
MW-7	07/28/02	--	--	3.9	--	--	--	--	--
	10/09/02	--	--	3.9	--	--	--	--	--
MW-8	07/28/02	--	--	<2.0	--	--	--	--	--
	10/09/02	--	--	<2.0	--	--	--	--	--
MW-9	07/28/02	--	--	3.5	--	--	--	--	--
	10/09/02	--	--	17	--	--	--	--	--
MW-10	07/28/02	--	--	<2.0	--	--	--	--	--
	10/09/02	--	--	<2.0	--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (Unocal) Service Station #5043  
449 Hegenberger Road  
Oakland, California

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
1,2-DCA = 1,2-Dichloroethane  
EDB = Ethylene dibromide/1,2-Dibromoethane  
(ppb) = Parts per billion  
ND = Not Detected  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

<sup>1</sup> Detection limit raised. Refer to analytical reports.

<sup>2</sup> Laboratory report indicates sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

**Table 3**  
**Product Thickness/Removal Data**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) (gallons)
MW-6	07/26/96	6.40	3.33	2.10
	10/28/96	4.10	0.21	0.14
	11/13/96	4.02	0.25	0.09
	11/25/96	4.01	0.75	0.47
	12/04/96	3.65	0.50	0.43
	12/19/96	4.80	2.20	1.02
	01/08/97	4.84	1.75	0.59
	01/14/97	4.51	1.15	0.66
	01/27/97	4.00	1.75	0.78
	01/29/97	3.24	0.31	0.25
	02/11/97	4.65	1.20	0.62
	02/24/97	4.81	1.10	0.50
	03/10/97	4.60	0.95	0.47
	03/17/97	4.50	0.89	0.35
	03/31/97	4.65	1.00	0.50
	04/15/97	4.90	1.03	0.51
	04/28/97	4.78	0.03	0.20
	05/15/97	4.60	0.25	0.20
	05/27/97	4.50	0.25	0.00
	06/09/97	4.60	0.20	0.23
	06/24/97	4.50	0.25	0.25
	07/09/97	4.80	0.60	0.25
	07/15/97	4.63	0.42	0.20
	07/21/97	4.75	0.25	0.27
	08/06/97	4.50	0.10	0.16
	08/20/97	4.55	0.10	0.20
	09/02/97	4.75	0.05	0.12
	10/09/97	4.84	0.04	0.12
	01/14/98 <sup>1</sup>	3.90	0.94	1.50
	02/12/98 <sup>1</sup>	3.35	0.64	0.32
	03/03/98 <sup>1</sup>	4.51	0.02	2.00
	04/01/98 <sup>1</sup>	3.67	1.60	0.50
	05/26/98 <sup>1</sup>	4.11	0.50	0.08
	06/15/98 <sup>1</sup>	5.03	0.30	0.060
	07/15/98 <sup>1</sup>	4.56	0.05	0.10
	08/21/98 <sup>1</sup>	4.77	0.02	0.040
	09/30/98 <sup>1</sup>	5.08	0.03	0.027
	10/16/98 <sup>1</sup>	4.32	2.40	0.98
	11/06/98 <sup>1</sup>	3.98	0.17	0.16
	11/25/98 <sup>1</sup>	3.92	0.10	0.12
	12/28/98 <sup>1</sup>	3.90	0.20	0.14
	01/25/99 <sup>1</sup>	4.18	0.60	0.27
	02/22/99 <sup>1</sup>	4.07	0.22	0.078 product/3.0 water
	03/22/99 <sup>1</sup>	4.32	0.15	0.039 product/5.0 water

**Table 3**  
**Product Thickness/Removal Data**  
 Tosco (Unocal) Service Station #5043  
 449 Hegenberger Road  
 Oakland, California

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) (gallons)
MW-6	04/15/99 <sup>1</sup>	4.23	0.95	1.0 product
(cont)	05/28/99 <sup>1</sup>	4.38	0.39	0.141 product/1.0 water
	06/29/99 <sup>1</sup>	4.12	0.02	0.054 product/8.0 water
	07/14/99 <sup>1</sup>	4.20	0.03	0.039 product/2.0 water
	08/23/99 <sup>1</sup>	4.51	0.24	0.094 product/1.0 water
	09/30/99 <sup>1</sup>	4.17	0.17	0.141 product/1.0 water
	10/21/99 <sup>1</sup>	4.27	0.12	0.070 product/1.0 water
	11/29/99 <sup>2</sup>	4.18	<0.01	0.0078 product/1.0 water
	12/20/99 <sup>2</sup>	4.26	0.01	0.0156 product/1.0 water
	01/20/00 <sup>2</sup>	4.31	<0.01	0.00
	02/26/00	3.98	0.00	0.00
	03/31/00	4.14	0.00	0.00
	04/13/00	4.04	0.00	0.00
	05/26/00	4.41	0.00	0.00
	06/17/00	4.35	0.00	0.00
	07/14/00	4.47	<0.01	<1 ounce
	08/24/00	3.71	0.00	0.00
	09/27/00	4.33	0.00	0.00
	10/26/00	4.32	0.00	0.00
	01/03/01	4.52	0.00	0.00
	04/04/01	4.29	0.00	0.00
	07/17/01	4.37	0.00	0.00
	10/01/01	4.45	0.00	0.00
	01/31/02	4.03	0.00	0.00
	04/18/02	3.45	0.00	0.00
	07/28/02	2.24	0.00	0.00
	10/09/02	3.53	0.00	0.00

**EXPLANATIONS:**

Product Thickness/Removal Data prior to January 14, 1998, were compiled from reports prepared by MPDS Services, Inc.

DTW = Depth to Water

(ft.) = Feet

<sup>1</sup> Skimmer present in well.

<sup>2</sup> No skimmer found in well.

## 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 #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 10-9-02 (inclusive)  
 City: Oakland, CA Sampler: KKelly

Well ID: MW-3 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 13.95 ft.  
 Depth to Water: 2.47 ft.  
11.48 xVF 0.14 = 1.95 x3 (case volume) = Estimated Purge Volume: 5.85 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): 1610 Weather Conditions: clear  
 Sample Time/Date: 1435 / 10-9-02 Water Color: cloudy Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1616</u>	<u>2.0</u>	<u>7.27</u>	<u>1211</u>	<u>24.6</u>	_____	_____
<u>1623</u>	<u>4.0</u>	<u>6.29</u>	<u>1191</u>	<u>25.2</u>	_____	_____
<u>1628</u>	<u>6.0</u>	<u>6.45</u>	<u>1186</u>	<u>24.1</u>	_____	_____

### LABORATORY INFORMATION

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

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 10/9/02 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-6 Date Monitored: 10/9/02 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 12.70 ft.  
 Depth to Water: 3.53 ft.

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

9.17 xVF 0.17 = 1.55 x3 (case volume) = Estimated Purge Volume: 4.67 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): 1640 Weather Conditions: clear  
 Sample Time/Date: 1702 10/9/02 Water Color: charcoal grey Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: black specs floating  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1645</u>	<u>1.5</u>	<u>7.29</u>	<u>1481</u>	<u>22.7</u>		
<u>1649</u>	<u>3.0</u>	<u>6.49</u>	<u>1740</u>	<u>22.7</u>		
<u>1653</u>	<u>5.0</u>	<u>6.78</u>	<u>2.97</u>	<u>21.6</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 x vial	YES	HCL	STL PLEASANTON	TPH-G(8015)/BTEX/MTBE(8260)
MW-6	1 x amber	YES	NP	STL PLEASANTON	TPH-D

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

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





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 10-9-02 (inclusive)  
 City: Oakland, CA Sampler: JKelly

Well ID: MW-7 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 13.18 ft.  
 Depth to Water: 4.53 ft.  
 Volume Factor (VF) table:  

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 0.17 = 1.47 x3 (case volume) = Estimated Purge Volume: 4.41 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): 1440 Weather Conditions: Clear  
 Sample Time/Date: 1500 110-9-02 Water Color: Grey Odor: Light  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1443</u>	<u>1.5</u>	<u>7.91</u>	<u>1356</u>	<u>25.0</u>		
<u>1447</u>	<u>3.0</u>	<u>6.92</u>	<u>1453</u>	<u>24.8</u>		
<u>1450</u>	<u>5.0</u>	<u>7.03</u>	<u>1537</u>	<u>23.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
	<u>1</u> x Amber	<u>YES</u>	<u>NP</u>	<u>STL Pleasanton</u>	<u>TPH-D</u>

COMMENTS: Due to Parking lot Recently Paved well was difficult to find. 1/2 hour spent on breaking away asphalt.

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 10-9-02 (inclusive)  
 City: Oakland, CA Sampler: Kelly

Well ID: MW-8  
 Well Diameter: 2 in.  
 Total Depth: 14.82 ft.  
 Depth to Water: 2.09 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

12.73 xVF 0.17 = 2.16 x3 (case volume) = Estimated Purge Volume: 6.49 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): 1510 Weather Conditions: Clear  
 Sample Time/Date: 1530 / 10-9-02 Water Color: Clear Odor: Slight  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: Ø  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1515</u>	<u>2.0</u>	<u>6.95</u>	<u>4.29</u>	<u>23.7</u>	_____	_____
<u>1519</u>	<u>4.0</u>	<u>6.15</u>	<u>4.01</u>	<u>23.6</u>	_____	_____
<u>1523</u>	<u>6.5</u>	<u>6.04</u>	<u>3.61</u>	<u>23.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3</u> x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
	<u>1</u> x Amber	YES	NP	STL Pleasanton	TPH-D

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 10-9-02 (inclusive)  
 City: Oakland, CA Sampler: KKelly

Well ID: MW-9  
 Well Diameter: 2 in.  
 Total Depth: 12.48 ft.  
 Depth to Water: 1.45 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

11.03 xVF 0.17 = 1.87 x3 (case volume) = Estimated Purge Volume: 5.62 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): 1315 Weather Conditions: Clear  
 Sample Time/Date: 1340 10-8-02 Water Color: Dark Grey Odor: Yes  
 Purging Flow Rate: 0 gpm. Sediment Description: specs floating  
 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>1325</u>	<u>2.0</u>	<u>6.10</u>	<u>759</u>	<u>25.9</u>	_____	_____
<u>1330</u>	<u>4.0</u>	<u>5.99</u>	<u>178.3</u>	<u>25.0</u>	_____	_____
<u>3336</u>	<u>6.0</u>	<u>6.37</u>	<u>3.05</u>	<u>25.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
	<u>1</u> x Amber	<u>YES</u>	<u>NP</u>	<u>STL Pleasanton</u>	<u>TPH-D</u>

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 10-9-02 (inclusive)  
 City: Oakland, CA Sampler: Kelly

Well ID: MW-10  
 Well Diameter: 2 in.  
 Total Depth: 12.77 ft.  
 Depth to Water: 3.97 ft.  
8.80

Well Condition: See comments

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 0.17 = 1.49 x3 (case volume) = Estimated Purge Volume: 4.48 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): 1536 Weather Conditions: Clear  
 Sample Time/Date: 1602 / 10-9-02 Water Color: Clear Odor: slight  
 Purging Flow Rate: - gpm. Sediment Description: None  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1539</u>	<u>1.5</u>	<u>7.52</u>	<u><del>756</del></u>	<u>22.1</u>		
<u>1542</u>	<u>3.0</u>	<u>7.15</u>	<u>756</u>	<u>22.4</u>		
<u>1546</u>	<u>5.0</u>	<u>6.86</u>	<u>1604</u>	<u>22.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
	<u>1</u> x Amber	<u>YES</u>	<u>NP</u>	<u>STL Pleasanton</u>	<u>TPH-D</u>

COMMENTS: Bolts are stripped

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

2002-10-0289

09488  
Gettler-Ryan Inc., Chain-of-Custod

P.2  
9256003002  
st10n site  
Oct 30 02 04:57P  
FILE NAME: P:\ENVIRO\X-CHAIN\INDUSTOY\STD-COC.DWG | Layout: Tab: Model

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number <u>#5043</u>	Laboratory Name <u>STL - PLEASANTON, CA</u>
	Facility Address <u>449 HEGENBERGER ROAD, OAKLAND, CA</u>	Consultant <u>GETTLER-RYAN, INC.</u> <u>DEANNA L. HARDING</u>
	Global ID <u>T0600101476</u> Project <u>180065.80</u>	Address <u>6747 SIERRA CT., SUITE J, DUBLIN CA 94568</u>
	Client Contact <u>MR. DAVID B. DEWITT</u>	Phone <u>(925) 551-7555</u> Fax <u>(925) 551-7899</u>
Phone <u>(925) 277-2384</u>	Samples Collected by <u>Kristina Kelly</u>	

SAMPLE ID	Number of Containers Metric	Sample Preservation		Date/Time (2400 Hrs)	TPH-GAS/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 9520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks	
		S = Soil W = Water	A = Air C = Charcoal																
QA	1	W		10-9-02					X										
MW 3	4	W	H	10-9-02 1635		X			X										No QA Sample received by the Lab (TW) 10-11-02 1235
MW 6	4	W	H	10-9-02 1702		X			X										
MW 7	4	W	H	10-9-02 1500		X			X										
MW 8	4	W	H	10-9-02 1530		X			X										
MW 9	4	W	H	10-9-02 1340		X			X										
MW 10	4	W	H	10-9-02 1602		X			X										

Relinquished By (Signature) <i>Kristina Kelly</i>	Organization <u>G.R. INC</u>	Date/Time <u>10-9-02</u>	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. <u>4.9°C</u> 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)		Date/Time <u>10-11-02</u>	Iced Y/N <u>1235</u>	

Submission#: 2002-10-0289

October 30, 2002

SEVERN

TRENT

LABORATORY

**Gettler Ryan**

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180065.80

Project: Toscon #5043

Site: 449 Hegenberger Road  
Oakland, CA

RECEIVED

OCT 30 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 10/11/2002 12:35

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 11/25/2002 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

Submission #: 2002-10-0289

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: 180065.80  
Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
Oakland, CA

**SEVERN**  
**TRENT**  
**LABORATORY**

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

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-3	10/09/2002 16:35	Water	1
MW-6	10/09/2002 17:02	Water	2
MW-7	10/09/2002 15:00	Water	3
MW-8	10/09/2002 15:30	Water	4
MW-9	10/09/2002 13:40	Water	5
MW-10	10/09/2002 16:02	Water	6

Submission #: 2002-10-0289

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180065.80  
Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
Oakland, CA

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Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Prep(s): 5030B

Sample ID: MW-3

Sampled: 10/09/2002 16:35

Matrix: Water

Analysis Flag: lrn ( See Legend and Note Section )

Test(s): 8260FAB

Lab ID: 2002-10-0289 - 1

Extracted: 10/16/2002 20:33

QC Batch#: 2002/10/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	690	500	ug/L	10.00	10/16/2002 20:33	g
Benzene	ND	5.0	ug/L	10.00	10/16/2002 20:33	
Toluene	ND	5.0	ug/L	10.00	10/16/2002 20:33	
Ethylbenzene	ND	5.0	ug/L	10.00	10/16/2002 20:33	
Total xylenes	ND	10	ug/L	10.00	10/16/2002 20:33	
Methyl tert-butyl ether (MTBE)	120	20	ug/L	10.00	10/16/2002 20:33	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	99.4	76-114	%	10.00	10/16/2002 20:33	
Toluene-d8	94.5	88-110	%	10.00	10/16/2002 20:33	



## 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: 180065.80  
Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
Oakland, CA

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Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260FAB  
Sample ID: MW-6 Lab ID: 2002-10-0289 - 2  
Sampled: 10/09/2002 17:02 Extracted: 10/16/2002 20:54  
Matrix: Water QC Batch#: 2002/10/16-01.62  
Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	970000	50000	ug/L	1000.00	10/16/2002 20:54	
Benzene	10000	500	ug/L	1000.00	10/16/2002 20:54	
Toluene	39000	500	ug/L	1000.00	10/16/2002 20:54	
Ethylbenzene	13000	500	ug/L	1000.00	10/16/2002 20:54	
Total xylenes	94000	1000	ug/L	1000.00	10/16/2002 20:54	
Methyl tert-butyl ether (MTBE)	ND	2000	ug/L	1000.00	10/16/2002 20:54	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	101.3	76-114	%	1000.00	10/16/2002 20:54	
Toluene-d8	98.5	88-110	%	1000.00	10/16/2002 20:54	

Submission #: 2002-10-0289

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: 180065.80  
Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
Oakland, CA

**SEVERN**  
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**LABORATORY**

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Pleasanton, CA 94566

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www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B  
Sample ID: MW-7  
Sampled: 10/09/2002 15:00  
Matrix: Water

Test(s): 8260FAB  
Lab ID: 2002-10-0289 - 3  
Extracted: 10/16/2002 21:16  
QC Batch#: 2002/10/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/16/2002 21:16	
Benzene	ND	0.50	ug/L	1.00	10/16/2002 21:16	
Toluene	ND	0.50	ug/L	1.00	10/16/2002 21:16	
Ethylbenzene	ND	0.50	ug/L	1.00	10/16/2002 21:16	
Total xylenes	ND	1.0	ug/L	1.00	10/16/2002 21:16	
Methyl tert-butyl ether (MTBE)	3.9	2.0	ug/L	1.00	10/16/2002 21:16	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	96.3	76-114	%	1.00	10/16/2002 21:16	
Toluene-d8	96.2	88-110	%	1.00	10/16/2002 21:16	

## Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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6747 Sierra Court Suite J

Dublin, CA 94568

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

Project: 180065.80

Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
Oakland, CASTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B

Sample ID: MW-8

Sampled: 10/09/2002 15:30

Matrix: Water

Test(s): 8260FAB

Lab ID: 2002-10-0289 - 4

Extracted: 10/16/2002 21:38

QC Batch#: 2002/10/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/16/2002 21:38	
Benzene	ND	0.50	ug/L	1.00	10/16/2002 21:38	
Toluene	ND	0.50	ug/L	1.00	10/16/2002 21:38	
Ethylbenzene	ND	0.50	ug/L	1.00	10/16/2002 21:38	
Total xylenes	ND	1.0	ug/L	1.00	10/16/2002 21:38	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/16/2002 21:38	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	95.5	76-114	%	1.00	10/16/2002 21:38	
Toluene-d8	94.1	88-110	%	1.00	10/16/2002 21:38	

Submission #: 2002-10-0289

### 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: 180065.80  
Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
Oakland, CA

**SEVERN**  
**TRENT**  
**LABORATORY**

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260FAB  
Sample ID: MW-9 Lab ID: 2002-10-0289 - 5  
Sampled: 10/09/2002 13:40 Extracted: 10/18/2002 15:44  
Matrix: Water QC Batch#: 2002/10/18-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/18/2002 15:44	
Benzene	ND	0.50	ug/L	1.00	10/18/2002 15:44	
Toluene	ND	0.50	ug/L	1.00	10/18/2002 15:44	
Ethylbenzene	ND	0.50	ug/L	1.00	10/18/2002 15:44	
Total xylenes	ND	1.0	ug/L	1.00	10/18/2002 15:44	
Methyl tert-butyl ether (MTBE)	17	2.0	ug/L	1.00	10/18/2002 15:44	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	100.2	76-114	%	1.00	10/18/2002 15:44	
Toluene-d8	100.7	88-110	%	1.00	10/18/2002 15:44	

## 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: 180065.80  
 Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
 Oakland, 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

Prep(s): 5030B Test(s): 8260FAB  
 Sample ID: MW-10 Lab ID: 2002-10-0289 - 6  
 Sampled: 10/09/2002 16:02 Extracted: 10/16/2002 22:21  
 Matrix: Water QC Batch#: 2002/10/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/16/2002 22:21	
Benzene	0.67	0.50	ug/L	1.00	10/16/2002 22:21	
Toluene	ND	0.50	ug/L	1.00	10/16/2002 22:21	
Ethylbenzene	ND	0.50	ug/L	1.00	10/16/2002 22:21	
Total xylenes	ND	1.0	ug/L	1.00	10/16/2002 22:21	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/16/2002 22:21	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	92.5	76-114	%	1.00	10/16/2002 22:21	
Toluene-d8	96.9	88-110	%	1.00	10/16/2002 22:21	

## 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: 180065.80  
Toscon #5043

Received: 10/11/2002 12:35

Site: 449 Hegenberger Road  
Oakland, CA

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
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CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/10/16-01.62-000

Water

Test(s): 8260FAB

QC Batch # 2002/10/16-01.62

Date Extracted: 10/16/2002 15:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/16/2002 15:00	
Benzene	ND	0.5	ug/L	10/16/2002 15:00	
Toluene	ND	0.5	ug/L	10/16/2002 15:00	
Ethylbenzene	ND	0.5	ug/L	10/16/2002 15:00	
Total xylenes	ND	1.0	ug/L	10/16/2002 15:00	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/16/2002 15:00	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	85.9	76-114	%	10/16/2002 15:00	
Toluene-d8	95.8	88-110	%	10/16/2002 15:00	

## Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Oakland, CASTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel: (925) 484-1919  
Fax: (925) 484-1096  
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CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/10/18-01.27-022

Water

Test(s): 8260FAB

QC Batch # 2002/10/18-01.27

Date Extracted: 10/18/2002 12:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/18/2002 12:15	
Benzene	ND	0.5	ug/L	10/18/2002 12:15	
Toluene	ND	0.5	ug/L	10/18/2002 12:15	
Ethylbenzene	ND	0.5	ug/L	10/18/2002 12:15	
Total xylenes	ND	1.0	ug/L	10/18/2002 12:15	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/18/2002 12:15	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	96.6	76-114	%	10/18/2002 12:15	
Toluene-d8	93.6	88-110	%	10/18/2002 12:15	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/10/16-01.62**

LCS 2002/10/16-01.62-050

Extracted: 10/16/2002

Analyzed: 10/16/2002 12:49

LCSD 2002/10/16-01.62-011

Extracted: 10/16/2002

Analyzed: 10/16/2002 13:11

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	23.3	23.5	25.0	93.2	94.0	0.9	69-129	20		
Toluene	25.7	26.5	25.0	102.8	106.0	3.1	70-130	20		
Methyl tert-butyl ether (MTBE)	28.4	28.2	25.0	113.6	112.8	0.7	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	483	494	500	96.6	98.8		76-114	0		
Toluene-d8	479	479	500	95.8	95.8		88-110	0		



Gas/BTEX Fuel Oxygenates by 8260B

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 1220 Quarry Lane  
 Pleasanton, CA 94566

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/10/18-01.27**

LCS 2002/10/18-01.27-006  
 LCSD 2002/10/18-01.27-007

Extracted: 10/18/2002  
 Extracted: 10/18/2002

Analyzed: 10/18/2002 11:31  
 Analyzed: 10/18/2002 11:53

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.8	26.5	25.0	95.2	106.0	10.7	65-165	20		
Benzene	24.9	24.8	25.0	99.6	99.2	0.4	69-129	20		
Toluene	25.5	25.1	25.0	102.0	100.4	1.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	475	502	500	95.0	100.4		76-114			
Toluene-d8	476	467	500	95.2	93.4		88-110			

Submission #: 2002-10-0289

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: 180065.80

Toscon #5043

Received: 10/11/2002 12:35

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1220 Quarry Lane  
Pleasanton, CA 94566

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CA DHS ELAP# 2496

---

### Legend and Notes

---

#### Analysis Flag

lrr

Reporting limits raised due to high level of non-target analyte materials.

o

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

#### Result Flag

g

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

Submission #: 2002-10-0289

Diesel

Gettler Ryan

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Project: 180065.80  
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STL San Francisco  
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Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
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CA DHS ELAP# 2496

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-3	10/09/2002 16:35	Water	1
MW-6	10/09/2002 17:02	Water	2
MW-7	10/09/2002 15:00	Water	3
MW-8	10/09/2002 15:30	Water	4
MW-9	10/09/2002 13:40	Water	5
MW-10	10/09/2002 16:02	Water	6

Submission #: 2002-10-0289

Diesel

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Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180065.80  
Toscon #5043

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STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
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CA DHS ELAP# 2496

Prep(s): 3510/8015M                      Test(s): 8015M  
Sample ID: MW-3                              Lab ID: 2002-10-0289 - 1  
Sampled: 10/09/2002 16:35                Extracted: 10/14/2002 17:52  
Matrix: Water                                 QC Batch#: 2002/10/14-04.10  
Analysis Flag: rl ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	700	94	ug/L	1.89	10/16/2002 08:55	ndp
<b>Surrogates(s)</b>						
o-Terphenyl	87.0	60-130	%	1.89	10/16/2002 08:55	

Diesel

Gettler Ryan

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

Project: 180065.80  
 Toscon #5043

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 Oakland, CA

STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Tel: (925) 484-1919  
 Fax: (925) 484-1096  
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CA DHS ELAP# 2496

Prep(s): 3510/8015M                      Test(s): 8015M  
 Sample ID: MW-6                          Lab ID: 2002-10-0289 - 2  
 Sampled: 10/09/2002 17:02              Extracted: 10/14/2002 17:52  
 Matrix: Water                              QC Batch#: 2002/10/14-04.10  
 Analysis Flag: rl ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	170000	9400	ug/L	188.68	10/15/2002 18:48	ndp
<i>Surrogates(s)</i> o-Terphenyl	NA	60-130	%	188.68	10/15/2002 18:48	sd

Submission #: 2002-10-0289

Diesel

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Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180065.80  
Toscon #5043

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STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M  
Sample ID: MW-7 Lab ID: 2002-10-0289 - 3  
Sampled: 10/09/2002 15:00 Extracted: 10/14/2002 17:52  
Matrix: Water QC Batch#: 2002/10/14-04.10  
Analysis Flag: rl ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	96	ug/L	1.92	10/15/2002 08:52	
<b>Surrogates(s)</b>						
o-Terphenyl	84.2	60-130	%	1.92	10/15/2002 08:52	

Diesel

Gettler Ryan

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

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1220 Quarry Lane  
Pleasanton, CA 94566

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Project: 180065.80  
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CA DHS ELAP# 2496

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-8	Lab ID: 2002-10-0289 - 4
Sampled: 10/09/2002 15:30	Extracted: 10/14/2002 17:52
Matrix: Water	QC Batch#: 2002/10/14-04.10
Analysis Flag: rl ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	120	98	ug/L	1.96	10/15/2002 09:05	ndp
<i>Surrogates(s)</i> o-Terphenyl	85.5	60-130	%	1.96	10/15/2002 09:05	

Submission #: 2002-10-0289

Diesel

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Project: 180065.80  
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STL San Francisco  
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Pleasanton, CA 94566

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CA DHS ELAP# 2496

Prep(s): 3510/8015M                      Test(s): 8015M  
Sample ID: MW-9                              Lab ID: 2002-10-0289 - 5  
Sampled: 10/09/2002 13:40                Extracted: 10/14/2002 17:52  
Matrix: Water                                QC Batch#: 2002/10/14-04.10  
Analysis Flag: rl ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	100	100	ug/L	2.08	10/15/2002 09:42	ndp
<i>Surrogates(s)</i> o-Terphenyl	77.1	60-130	%	2.08	10/15/2002 09:42	



Diesel

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Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

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1220 Quarry Lane  
Pleasanton, CA 94566

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M  
Sample ID: MW-10 Lab ID: 2002-10-0289 - 6  
Sampled: 10/09/2002 16:02 Extracted: 10/14/2002 17:52  
Matrix: Water QC Batch#: 2002/10/14-04.10  
Analysis Flag: rl ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	94	ug/L	1.89	10/15/2002 09:05	
<i>Surrogates(s)</i> o-Terphenyl	93.8	60-130	%	1.89	10/15/2002 09:05	

Submission #: 2002-10-0289

**SEVERN**  
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**LABORATORY**

Diesel

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 3510/8015M  
Method Blank  
MB: 2002/10/14-04.10-001

Water

Test(s): 8015M  
QC Batch # 2002/10/14-04.10  
Date Extracted: 10/14/2002 17:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	10/15/2002 06:37	
Surrogates(s) o-Terphenyl	93.5	60-130	%	10/15/2002 06:37	

Diesel

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**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/10/14-04.10**

LCS 2002/10/14-04.10-002

Extracted: 10/14/2002

Analyzed: 10/15/2002 05:23

LCSD 2002/10/14-04.10-003

Extracted: 10/14/2002

Analyzed: 10/15/2002 06:00

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	1310	1240	1250	104.8	99.2	5.5	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	18.4	18.0	20.0	92.0	89.9		60-130	0		

Submission #: 2002-10-0289

Diesel

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CA DHS ELAP# 2496

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**Legend and Notes**

---

**Analysis Flag**

rl

Reporting limits raised due to reduced sample size.

**Result Flag**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.