



# GETTLER-RYAN INC.

## TRANSMITTAL

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 11:34 am, Apr 30, 2009  
 Alameda County  
 Environmental Health

August 6, 2003  
 G-R #180065

**TO:** Mr. David B. De Witt  
 ConocoPhillips  
 76 Broadway Avenue  
 Sacramento, California 95818

**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	July 29, 2003	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 1, 2003

**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 **August 20, 2003**, 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

**CA & HI BOX:**

009380

Store # 25 5043 Date: 8-6-03  
 Unit # 5043 Code: GWM  
 Description: 3rd QTR 2003 M+S RPT



# GETTLER-RYAN INC.

July 29, 2003  
G-R Job #180065

Mr. David B. De Witt  
ConocoPhillips  
76 Broadway Avenue  
Sacramento, California 95818

**RE: Third Quarter Event of July 1, 2003**  
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 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 I. Harding  
Project Coordinator

Robert C. Mallory  
Registered Geologist, No. 7285

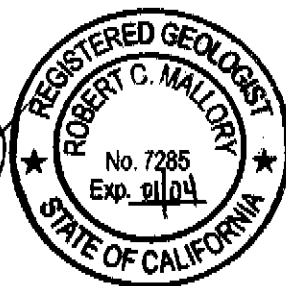
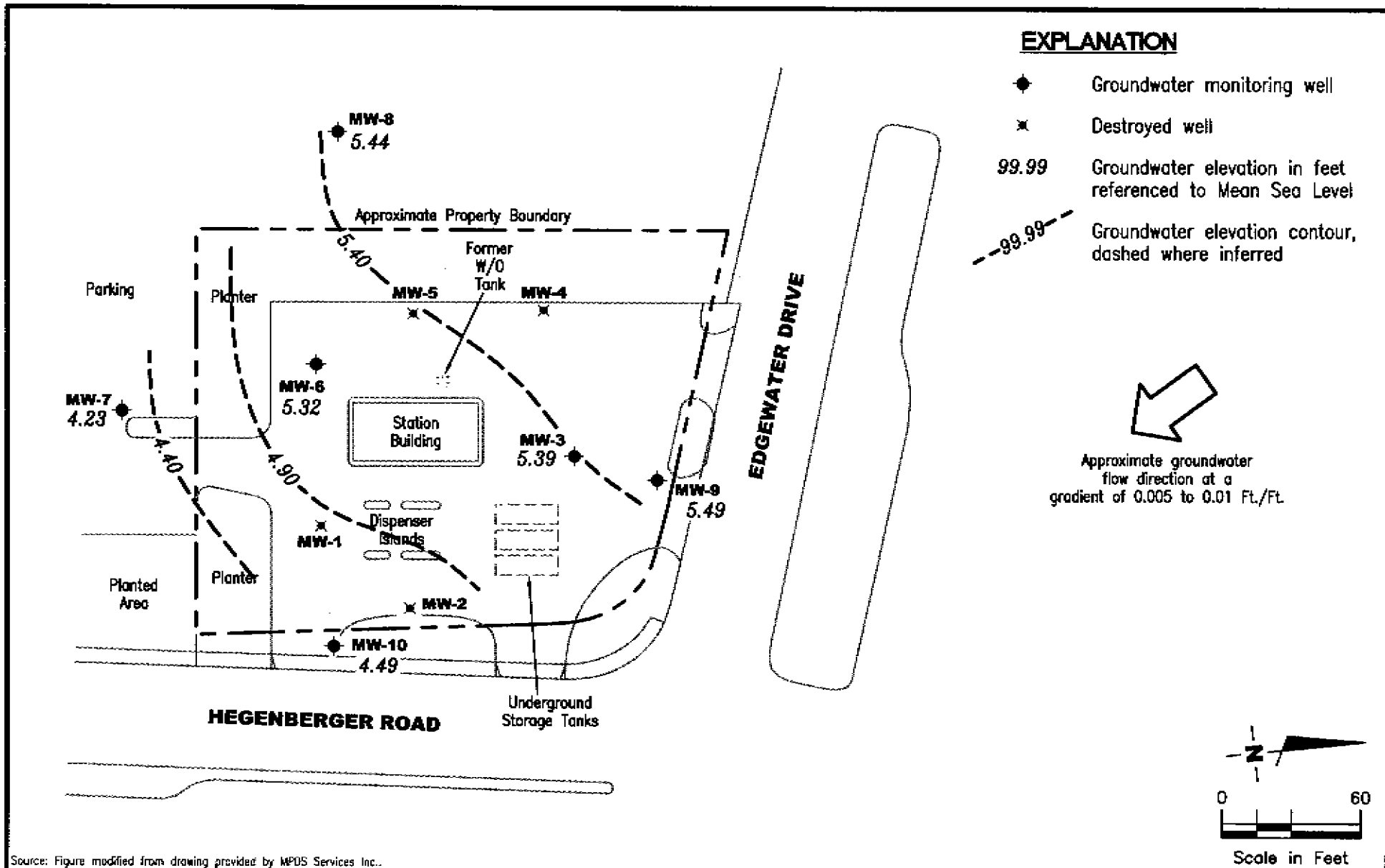


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Table 3: Product Thickness/Removal Data  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field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

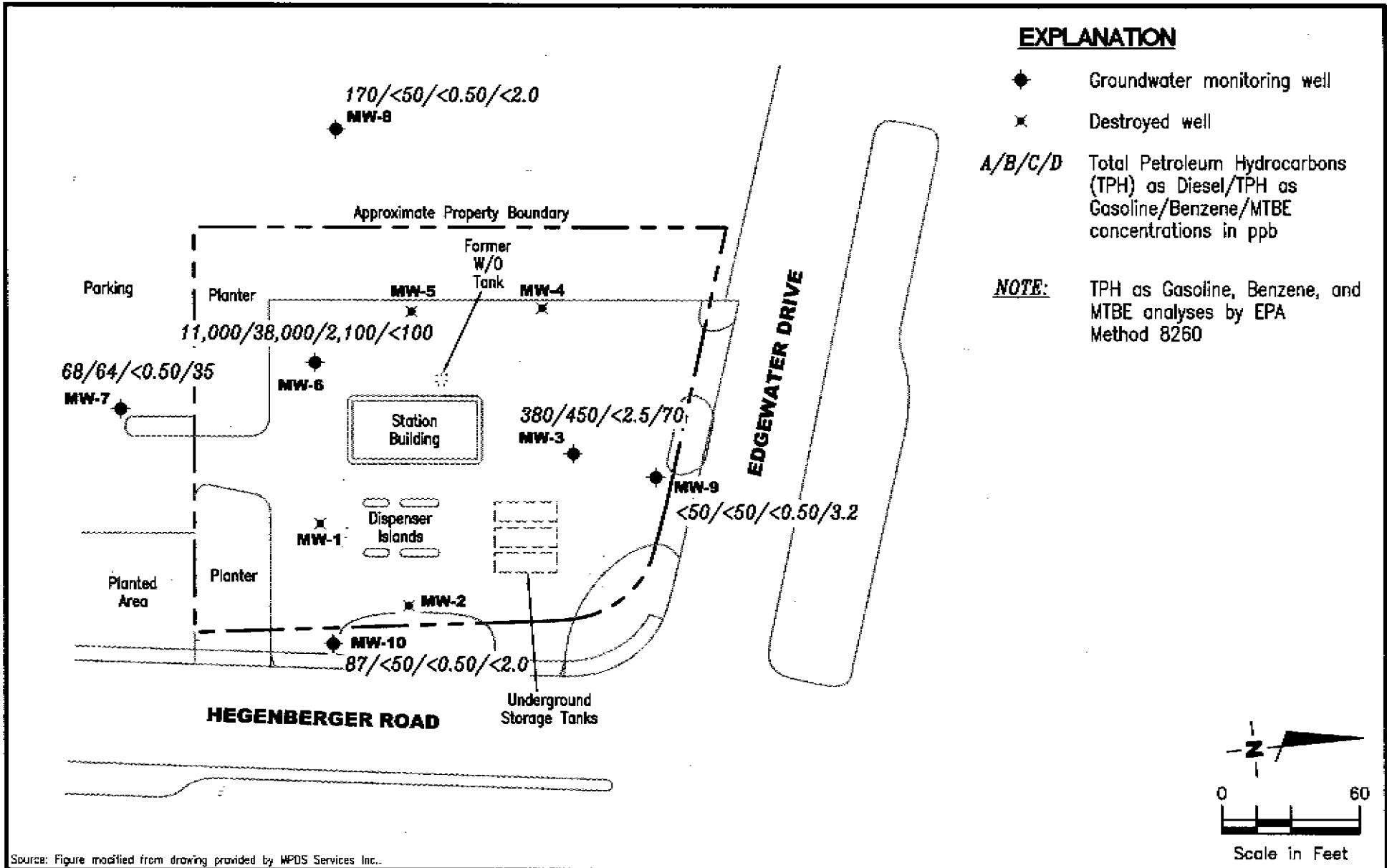
PROJECT NUMBER  
180065

REVIEWED BY

DATE  
July 1, 2003

REVISED DATE

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**GETTLER - RYAN INC.**  
 8747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

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

FIGURE  
**2**

PROJECT NUMBER  
**180065**

REVIEWED BY

DATE  
 July 1, 2003

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.L. (ft.bgs)	GWE (msl)	Product		TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
					Thickness (ft.)								
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.L. (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
	04/01/98	2.20		5.84	0.00	320 <sup>7</sup>	370	5.7	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	93

**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-C (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	07/15/98	3.38	2.5-14.0	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
(cont)	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
	01/02/03 <sup>36</sup>	1.70		6.34	0.00	210 <sup>35</sup>	310	<0.50	<0.50	<0.50	<1.0	110
	04/01/03 <sup>36</sup>	3.48		4.56	0.00	200 <sup>35</sup>	250	<1.0	<1.0	<1.0	<2.0	210
	07/01/03 <sup>36</sup>	2.65		5.39	0.00	380 <sup>35</sup>	450 <sup>35</sup>	<2.5	<2.5	<2.5	<5.0	70
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	--	--	--	--	--	--	--

**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	07/27/94	4.28	--	4.13	0.00	--	--	--	--	--	--	--	--
(cont)	08/15/94	4.27		4.14	0.00	72 <sup>2</sup>	59 <sup>4</sup>	ND	0.6	ND	ND	ND	--
	11/14/94	4.05		4.36	0.00	ND	130 <sup>4</sup>	ND	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 Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
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						--
	02/12/98	3.35		6.01**	0.64	--	--	--	--	--	--	--

**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	03/03/98	4.51	2.5-13.5	4.38**	0.02	--	--	--	--	--	--	--
(cont)	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>
	08/24/00	3.71		5.16	0.00	--	--	--	--	--	--	--
	09/27/00	4.33		4.54	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-6	10/26/00	4.32	2.5-13.5	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>
(cont)	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>25</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
	01/02/03 <sup>35</sup>	2.34		6.53	0.00	66,000 <sup>35</sup>	270,000	6,100	15,000	5,400	37,000	<200
	04/01/03 <sup>36</sup>	3.17		5.70	0.00	35,000 <sup>35</sup>	3,000,000 <sup>38</sup>	8,000	39,000	37,000	260,000	<2,000
	07/01/03 <sup>36</sup>	3.55		5.32	0.00	11,000 <sup>36</sup>	38,000	2,100	990	2,700	6,500	<100
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 (msd)	Product								
					Thickness (ft)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-7	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	<1.0	5.7
(cont)	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
	01/03/03 <sup>36</sup>	3.36		5.47	0.00	78 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	04/01/03 <sup>36</sup>	3.94		4.89	0.00	67 <sup>35</sup>	71 <sup>35</sup>	<0.50	<0.50	0.71	<0.50	<1.0	3.4
	07/01/03 <sup>36</sup>	4.60		4.23	0.00	68 <sup>35</sup>	64	<0.50	<0.50	0.77	<0.50	2.0	35
MW-8	05/27/97	3.42	3.0-15.0	5.10	0.00	--	310	0.88	0.67	15	70	--	ND
8.52	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	2.7	3.8	ND	ND
	10/09/97	3.73		4.79	0.00	390 <sup>1</sup>	590	1.4	ND	32	4.1	ND	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	0.56	1.1	ND	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
	01/02/03 <sup>36</sup>	1.98		6.54	0.00	210 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	04/01/03 <sup>36</sup>	2.66		5.86	0.00	220 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	07/01/03 <sup>36</sup>	3.08		5.44	0.00	170 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0

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

WELL ID/ TOC*(ft.)	DATE	DFW (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-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>35</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

**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.L. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	01/02/03 <sup>36</sup>	1.18	3.0-13.0	7.11	0.00	<50	<50	<0.50	<0.50	<0.50	<1.0	8.6
(cont)	04/01/03 <sup>36</sup>	2.04		6.25	0.00	56 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<1.0	9.4
	07/01/03 <sup>36</sup>	2.80		5.49	0.00	<50	<50	<0.50	<0.50	<0.50	<1.0	3.2
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

**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.L. (ft. bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	04/18/02	4.01	3.0-13.0	4.61	0.00	130 <sup>35</sup>	<50	11	<0.50	1.4	4.5	<2.5
(cont)	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
	01/02/03 <sup>36</sup>	3.03		5.59	0.00	64 <sup>35</sup>	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	04/01/03 <sup>36</sup>	3.83		4.79	0.00	76 <sup>35</sup>	<50	11	<0.50	<0.50	<1.0	<2.0
	07/01/03 <sup>36</sup>	4.13		4.49	0.00	87	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<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

**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)
QA	07/28/02 <sup>36</sup>	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	10/09/02 <sup>37</sup>	--	--	--	--	--	--	--	--	--	--	--
	01/02/03 <sup>36</sup>	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	04/01/03 <sup>36</sup>	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	07/01/03 <sup>36</sup>	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0



**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
(ft.) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline	ND = Not Detected
DTW = Depth to Water	T = Toluene	QA = Quality Assurance/Trip Blank
S. I. = Screen Interval	E = Ethylbenzene	
(ft.bgs) = Feet Below Ground Surface	X = Xylenes	
GWE = Groundwater Elevation	MTBE = Methyl tertiary butyl ether	
(msl) = Mean sea level		

- \* 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 quantification 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.
- 38 Laboratory confirmed analysis.

**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)	DIBE (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	--	--	--	--	--
	01/02/03	<500	<100	110	<2.0	<2.0	<2.0	<2.0	<2.0
	04/01/03	--	--	210	--	--	--	--	--
	07/01/03	<2,500	--	70	--	--	--	--	--
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	--	--	--	--	--
	01/02/03	--	--	<200	--	--	--	--	--
	04/01/03	--	--	<2,000	--	--	--	--	--
	07/01/03	<25,000	--	<100	--	--	--	--	--
MW-7	07/28/02	--	--	3.9	--	--	--	--	--
	10/09/02	--	--	3.9	--	--	--	--	--
	01/02/03	--	--	<2.0	--	--	--	--	--
	04/01/03	--	--	3.4	--	--	--	--	--
	07/01/03	<500	--	35	--	--	--	--	--
MW-8	07/28/02	--	--	<2.0	--	--	--	--	--
	10/09/02	--	--	<2.0	--	--	--	--	--
	01/02/03	--	--	<2.0	--	--	--	--	--
	04/01/03	--	--	<2.0	--	--	--	--	--
	07/01/03	<500	--	<2.0	--	--	--	--	--

**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-9	07/28/02	--	--	3.5	--	--	--	--	--
	10/09/02	--	--	17	--	--	--	--	--
	01/02/03	--	--	8.6	--	--	--	--	--
	04/01/03	--	--	9.4	--	--	--	--	--
	07/01/03	<500	--	3.2	--	--	--	--	--
MW-10	07/28/02	--	--	<2.0	--	--	--	--	--
	10/09/02	--	--	<2.0	--	--	--	--	--
	01/02/03	--	--	<2.0	--	--	--	--	--
	04/01/03	--	--	<2.0	--	--	--	--	--
	07/01/03	<500	--	<2.0	--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (Unocal) Service Station #5043  
449 Hegenberger Road  
Oakland, 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  
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	3.90	0.94	1.50	
02/12/98	3.35	0.64	0.32	
03/03/98	4.51	0.02	2.00	
04/01/98	3.67	1.60	0.50	
05/26/98	4.11	0.50	0.08	
06/15/98	5.03	0.30	0.060	
07/15/98	4.56	0.05	0.10	
08/21/98	4.77	0.02	0.040	
09/30/98	5.08	0.03	0.027	
10/16/98	4.32	2.40	0.98	
11/06/98	3.98	0.17	0.16	
11/25/98	3.92	0.10	0.12	
12/28/98	3.90	0.20	0.14	
01/25/99	4.18	0.60	0.27	
02/22/99	4.07	0.22	0.078 product/3.0 water	
03/22/99	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
	01/02/03	2.34	0.00	0.00
	04/01/03	3.17	0.00	0.00
	07/01/03	3.55	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 ConocoPhillips Company, the purge water and decontamination water generated during sampling activities is transported to ConocoPhillips - San Francisco Refinery, located in Rodeo, California.





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 7/0 (inclusive)  
 City: Oakland, CA Sampler: D.O.

Well ID: MW-3 Date Monitored: 7-1 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 14.05 ft.

Depth to Water: 2.68 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

*Handwritten notes:*  
 11.40  
 .17  
 7.98  
 0.00  
 0.00  
 9380

$\text{VF} = 11.40 \times 0.17 = 1.93$  x3 (case volume) = Estimated Purge Volume: 6 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 / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1010 Weather Conditions: clear  
 Sample Time/Date: 1027 17-11-03 Water Color: clear/yellow Odor: slight  
 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)
1014	2	6.98	1405	26.1		
1018	4	6.92	1420	25.7		
1021	6	6.88	1426	25.5		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x vov vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
	x 500ml 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 #: ConocoPhillips #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 7-1-03 (inclusive)  
 City: Oakland, CA Sampler: P.O.

Well ID: MW-6 Date Monitored: 7-1-03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 12.65 ft.

Depth to Water: 3.55 ft.

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

9.10  
- .17  
-----  
8.93  
3.70  
-----  
5.23  
1.00  
-----  
4.23  
5.470

9.10 xVF .17 = 1.547 x3 (case volume) = Estimated Purge Volume: 4.5 gal.

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

Sampling Equipment:  
 Disposable Bailer X  
 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 / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1126 Weather Conditions: clear  
 Sample Time/Date: 1141 7-1-03 Water Color: clear/yellow 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 (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1129</u>	<u>1.5</u>	<u>6.89</u>	<u>2.66 m</u>	<u>23.0</u>		
<u>1132</u>	<u>3</u>	<u>6.80</u>	<u>2.68 m</u>	<u>23.0</u>		
<u>1135</u>	<u>4.5</u>	<u>6.72</u>	<u>2.68 m</u>	<u>21.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
	<u>1 x 500ml Amber</u>	<u>YES</u>	<u>NP</u>	<u>STL Pleasanton</u>	<u>TPH-D</u>

COMMENTS: Small reaction w/ HCL

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 7-1-03 (inclusive)  
 City: Oakland, CA Sampler: P.O.

Well ID: MW-7 Date Monitored: 7-1 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 13.10 ft.

Depth to Water: 4.60 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

8.50  
+17  
9.50  
8500  
4450

8.50 x VF .17 = 1.445 x3 (case volume) = Estimated Purge Volume: 4.5 gal.

### Purge Equipment:

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

### Sampling Equipment:

Disposable Bailer X  
 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): 1150 Weather Conditions: clear  
 Sample Time/Date: 1206 7-1-03 Water Color: clear Odor: no  
 Purging Flow Rate: ~ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: ~ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1153</u>	<u>1.5</u>	<u>6.96</u>	<u>717</u>	<u>22.8</u>		
<u>1156</u>	<u>3</u>	<u>6.90</u>	<u>725</u>	<u>22.6</u>		
<u>1159</u>	<u>4.5</u>	<u>6.95</u>	<u>736</u>	<u>22.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
	<u>/x 500ml Amber</u>	<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 #: ConocoPhillips #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 7.1.03 (inclusive)  
 City: Oakland, CA Sampler: D.O.

Well ID: MW-8 Date Monitored: 7.1.03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 14.82 ft.

Depth to Water: 3.08 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

11.74  
5.17  
8218  
1246  
19958

11.74 xVF .17 = 1.99 x3 (case volume) = Estimated Purge Volume: 6 gal.

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

Sampling Equipment:  
 Disposable Bailer X  
 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 / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1215 Weather Conditions: Clear  
 Sample Time/Date: 1231 7.1.03 Water Color: Clear Odor: None  
 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>1219</u>	<u>2</u>	<u>6.19</u>	<u>6.97m</u>	<u>21.3</u>		
<u>1222</u>	<u>4</u>	<u>6.11</u>	<u>6.98m</u>	<u>21.3</u>		
<u>1226</u>	<u>6</u>	<u>6.04</u>	<u>6.98m</u>	<u>21.3</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
	<u>1 x 500ml Amber</u>	<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 #: ConocoPhillips #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 7-1-03 (inclusive)  
 City: Oakland, CA Sampler: 2.6.

Well ID: MW-9 Date Monitored: 7-1 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 12.65 ft.  
 Depth to Water: 2.90 ft.  
 xVF 9.85 .17 = 1.62 x3 (case volume) = Estimated Purge Volume: 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 X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer X  
 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 / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1041 Weather Conditions: clear  
 Sample Time/Date: 1056 7-1-03 Water Color: clear Odor: no  
 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 (°F)	D.O. (mg/L)	ORP (mV)
<u>1044</u>	<u>1.5</u>	<u>7.13</u>	<u>634</u>	<u>24.3</u>		
<u>1047</u>	<u>3</u>	<u>7.10</u>	<u>650</u>	<u>24.2</u>		
<u>1050</u>	<u>5</u>	<u>7.05</u>	<u>658</u>	<u>24.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>5</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
	<u>1</u> x 500ml 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 #: ConocoPhillips #5043 Job Number: 180065  
 Site Address: 449 Hegenberger Road Event Date: 7-1-03 (inclusive)  
 City: Oakland, CA Sampler: 0.0

Well ID: MW-10 Date Monitored: 7-1-03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 12.77 ft.

Depth to Water: 4.13 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.86	5" = 1.02	6" = 1.50	12" = 5.80

8.64  
.17  
8640  
4688  
8640  
4688

8.64 x VF .17 = 1.46 x3 (case volume) = Estimated Purge Volume: 4.5 gal.

### Purge Equipment:

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

### Sampling Equipment:

Disposable Bailer X  
 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 / Absorbent Sock (circle one)	
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1104 Weather Conditions: clear  
 Sample Time/Date: 1116 7-1-03 Water Color: clear Odor: slight  
 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 (°F)	D.O. (mg/L)	ORP (mV)
1107	1.5	7.12	3.28m	21.1		
1110	3	7.07	3.28m	21.0		
1112	4.5	7.01	3.28m	21.0		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 x vov vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
	/x 500ml Amber	YES	NP	STL Pleasanton	TPH-D

### COMMENTS:

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

2003-07-0144

70711  
Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number: #5043	Laboratory Name: STL - PLEASANTON, CA
	Facility Address: 449 HEGENBERGER ROAD, OAKLAND, CA	Consultant: GETTLER-RYAN, INC. DEANNA L. HARDING
	Global ID: T0600101476 Project: 180065.80	Address: 6747 SIERRA CT., SUITE J, DUBLIN CA 94568
	Client Contact: MR. DAVID B. DEWITT	Phone: (925) 551-7555 Fax: (925) 551-7899
	Phone: 916-558-7666	Samples Collected by: David Okamoto

SAMPLE ID	Number of Containers Matrix	S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/SINHA 901 EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 8020	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HYDRO'S (9010) EPA 8021B	VOC'S (8240) EPA 8260	SAPC'S EPA 8270	Ethanol (8260)	Remarks
QA	1	W	REL	7/10/03					X										
AW-3	4			7/10/03		X			X									X	
MW-6				7/10/03		X			X									X	
AW-7				7/10/03		X			X									X	
MW-8				7/10/03		X			X									X	
MW-9				7/10/03		X			X									X	
MW-10				7/10/03		X			X									X	

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

Relinquished By (Signature): <i>David Dewitt</i>	Organization: G.R.	Date/Time: 7/10/03	Received By (Signature): <i>David Dewitt</i>	Organization: G.R.	Date/Time: 7/10/03	Iced Y/N: <input checked="" type="checkbox"/>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature): <i>David Dewitt</i>	Organization: G.R.	Date/Time: 7/10/03	Received By (Signature): <i>[Signature]</i>	Organization: G.R.	Date/Time: 7/10/03	Iced Y/N: <input type="checkbox"/>	
Relinquished By (Signature): <i>[Signature]</i>	Organization: G.R.	Date/Time: 7/23/03	Received For Laboratory By (Signature): <i>[Signature]</i>	Organization: G.R.	Date/Time: 7/23/03	Iced Y/N: <input type="checkbox"/>	

FILE NAME: C:\PROGRA~1\CHROMSOFT\SP-600.DWG | Layout Tab: Matrix

4-88

Gettler Ryan

July 18, 2003

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180065.80

Project: Conoco #5043

Site: 449 Hegenberger Road, Oakland

RECEIVED  
07/21/03

Dear Ms. Harding,

RECEIVED  
07/21/03

Attached is our report for your samples received on 07/02/2003 17:40

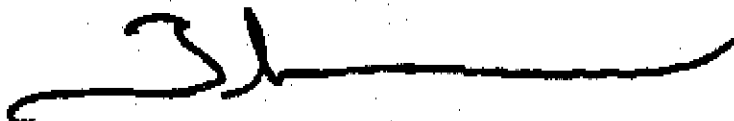
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/16/2003 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@stl-inc.com](mailto:tgranicher@stl-inc.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: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	07/01/2003	Water	1
MW-3	07/01/2003 10:27	Water	2
MW-6	07/01/2003 11:41	Water	3
MW-7	07/01/2003 12:06	Water	4
MW-8	07/01/2003 12:31	Water	5
MW-9	07/01/2003 10:56	Water	6
MW-10	07/01/2003 11:16	Water	7

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

07/14/2003 17:48

Page 1 of 11

**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

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: QA	Lab ID: 2003-07-0144 - 1
Sampled: 07/01/2003	Extracted: 7/11/2003 10:31
Matrix: Water	QC Batch#: 2003/07/11-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/11/2003 10:31	
Benzene	ND	0.50	ug/L	1.00	07/11/2003 10:31	
Toluene	ND	0.50	ug/L	1.00	07/11/2003 10:31	
Ethylbenzene	ND	0.50	ug/L	1.00	07/11/2003 10:31	
Total xylenes	ND	1.0	ug/L	1.00	07/11/2003 10:31	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	07/11/2003 10:31	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.4	76-114	%	1.00	07/11/2003 10:31	
Toluene-d8	96.1	88-110	%	1.00	07/11/2003 10:31	

**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  
Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-3	Lab ID: 2003-07-0144 - 2
Sampled: 07/01/2003 10:27	Extracted: 7/11/2003 12:45
Matrix: Water	QC Batch#: 2003/07/11-1B 62
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	450	250	ug/L	5.00	07/11/2003 12:45	g
Benzene	ND	2.5	ug/L	5.00	07/11/2003 12:45	
Toluene	ND	2.5	ug/L	5.00	07/11/2003 12:45	
Ethylbenzene	ND	2.5	ug/L	5.00	07/11/2003 12:45	
Total xylenes	ND	5.0	ug/L	5.00	07/11/2003 12:45	
Methyl tert-butyl ether (MTBE)	70	10	ug/L	5.00	07/11/2003 12:45	
Ethanol	ND	2500	ug/L	5.00	07/11/2003 12:45	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	103.1	76-114	%	5.00	07/11/2003 12:45	
Toluene-d8	98.7	88-110	%	5.00	07/11/2003 12:45	

**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

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-6	Lab ID: 2003-07-0144 - 3
Sampled: 07/01/2003 11:41	Extracted: 7/11/2003 13:29
Matrix: Water	QC Batch#: 2003/07/11-1B.62
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	38000	2500	ug/L	50.00	07/11/2003 13:29	
Benzene	2100	25	ug/L	50.00	07/11/2003 13:29	
Toluene	990	25	ug/L	50.00	07/11/2003 13:29	
Ethylbenzene	2700	25	ug/L	50.00	07/11/2003 13:29	
Total xylenes	6500	50	ug/L	50.00	07/11/2003 13:29	
Methyl tert-butyl ether (MTBE)	ND	100	ug/L	50.00	07/11/2003 13:29	
Ethanol	ND	25000	ug/L	50.00	07/11/2003 13:29	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	100.5	76-114	%	50.00	07/11/2003 13:29	
Toluene-d8	96.8	88-110	%	50.00	07/11/2003 13:29	

**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

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-7	Lab ID:	2003-07-0144 - 4
Sampled:	07/01/2003 12:06	Extracted:	7/11/2003 13:52
Matrix:	Water	QC Batch#:	2003/07/11-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	64	50	ug/L	1.00	07/11/2003 13:52	
Benzene	ND	0.50	ug/L	1.00	07/11/2003 13:52	
Toluene	ND	0.50	ug/L	1.00	07/11/2003 13:52	
Ethylbenzene	0.77	0.50	ug/L	1.00	07/11/2003 13:52	
Total xylenes	2.0	1.0	ug/L	1.00	07/11/2003 13:52	
Methyl tert-butyl ether (MTBE)	35	2.0	ug/L	1.00	07/11/2003 13:52	
Ethanol	ND	500	ug/L	1.00	07/11/2003 13:52	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	96.3	76-114	%	1.00	07/11/2003 13:52	
Toluene-d8	97.6	88-110	%	1.00	07/11/2003 13:52	

**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

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-8	Lab ID:	2003-07-0144 - 5
Sampled:	07/01/2003 12:31	Extracted:	7/11/2003 14:14
Matrix:	Water	QC Batch#:	2003/07/11-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/11/2003 14:14	
Benzene	ND	0.50	ug/L	1.00	07/11/2003 14:14	
Toluene	ND	0.50	ug/L	1.00	07/11/2003 14:14	
Ethylbenzene	ND	0.50	ug/L	1.00	07/11/2003 14:14	
Total xylenes	ND	1.0	ug/L	1.00	07/11/2003 14:14	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	07/11/2003 14:14	
Ethanol	ND	500	ug/L	1.00	07/11/2003 14:14	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.9	76-114	%	1.00	07/11/2003 14:14	
Toluene-d8	102.5	88-110	%	1.00	07/11/2003 14:14	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-9	Lab ID:	2003-07-0144 - 6
Sampled:	07/01/2003 10:56	Extracted:	7/11/2003 14:36
Matrix:	Water	QC Batch#:	2003/07/11-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/11/2003 14:36	
Benzene	ND	0.50	ug/L	1.00	07/11/2003 14:36	
Toluene	ND	0.50	ug/L	1.00	07/11/2003 14:36	
Ethylbenzene	ND	0.50	ug/L	1.00	07/11/2003 14:36	
Total xylenes	ND	1.0	ug/L	1.00	07/11/2003 14:36	
Methyl tert-butyl ether (MTBE)	3.2	2.0	ug/L	1.00	07/11/2003 14:36	
Ethanol	ND	500	ug/L	1.00	07/11/2003 14:36	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	94.0	76-114	%	1.00	07/11/2003 14:36	
Toluene-d8	97.4	88-110	%	1.00	07/11/2003 14:36	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-10	Lab ID:	2003-07-0144 -7
Sampled:	07/01/2003 11:16	Extracted:	7/11/2003 14:58
Matrix:	Water	QC Batch#:	2003/07/11-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/11/2003 14:58	
Benzene	ND	0.50	ug/L	1.00	07/11/2003 14:58	
Toluene	ND	0.50	ug/L	1.00	07/11/2003 14:58	
Ethylbenzene	ND	0.50	ug/L	1.00	07/11/2003 14:58	
Total xylenes	ND	1.0	ug/L	1.00	07/11/2003 14:58	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	07/11/2003 14:58	
Ethanol	ND	500	ug/L	1.00	07/11/2003 14:58	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.1	76-114	%	1.00	07/11/2003 14:58	
Toluene-d8	100.5	88-110	%	1.00	07/11/2003 14:58	



**Gas/BTEX Fuel Oxygenates by 8260B**

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2003/07/11-1B.62-005

Water

Test(s): 8260FAB

QC Batch # 2003/07/11-1B.62

Date Extracted: 07/11/2003 10:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/11/2003 10:05	
Benzene	ND	0.5	ug/L	07/11/2003 10:05	
Toluene	ND	0.5	ug/L	07/11/2003 10:05	
Ethylbenzene	ND	0.5	ug/L	07/11/2003 10:05	
Total xylenes	ND	1.0	ug/L	07/11/2003 10:05	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	07/11/2003 10:05	
Ethanol	ND	500	ug/L	07/11/2003 10:05	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	91.4	76-114	%	07/11/2003 10:05	
Toluene-d8	98.9	88-110	%	07/11/2003 10:05	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/07/11-1B.62

LCS: 2003/07/11-1B.62-021

Extracted: 07/11/2003

Analyzed: 07/11/2003 09:21

LCSD: 2003/07/11-1B.62-043

Extracted: 07/11/2003

Analyzed: 07/11/2003 09:43

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	27.6	28.0	25	110.4	112.0	1.4	69-129	20		
Toluene	27.2	26.7	25	108.8	106.8	1.9	70-130	20		
Methyl tert-butyl ether (MTBE)	26.0	26.4	25	104.0	105.6	1.5	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	446	454	500	89.2	90.8		76-114			
Toluene-d8	514	524	500	102.8	104.8		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

07/14/2003 17:48

Page 10 of 11

**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

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

---

**Legend and Notes**

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**Analysis Flag**

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.

**Diesel**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-3	07/01/2003 10:27	Water	2
MW-6	07/01/2003 11:41	Water	3
MW-7	07/01/2003 12:06	Water	4
MW-8	07/01/2003 12:31	Water	5
MW-9	07/01/2003 10:56	Water	6
MW-10	07/01/2003 11:16	Water	7

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

07/16/2003 13:52

Page 1 of 10

**Diesel**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-3	Lab ID:	2003-07-0144 - 2
Sampled:	07/01/2003 10:27	Extracted:	7/9/2003 10:16
Matrix:	Water	QC Batch#:	2003/07/09-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	380	50	ug/L	1.00	07/13/2003 01:57	ndp
<i>Surrogates(s)</i>						
o-Terphenyl	86.4	60-130	%	1.00	07/13/2003 01:57	

**Diesel**

Gettler Ryan

Attn.: Deanna Harding

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

Project: 180065.80  
Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-6	Lab ID: 2003-07-0144 - 3
Sampled: 07/01/2003 11:41	Extracted: 7/9/2003 10:16
Matrix: Water	QC Batch#: 2003/07/09-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	11000	250	ug/L	5.00	07/16/2003 11:43	ndp
<i>Surrogates(s)</i>						
o-Terphenyl	NA	60-130	%	5.00	07/16/2003 11:43	sd

**Diesel**

Gettler Ryan

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Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-7	Lab ID:	2003-07-0144 - 4
Sampled:	07/01/2003 12:06	Extracted:	7/9/2003 10:16
Matrix:	Water	QC Batch#:	2003/07/09-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	68	50	ug/L	1.00	07/16/2003 11:13	ndp
Surrogates(s) o-Terphenyl	88.5	60-130	%	1.00	07/16/2003 11:13	

**Diesel**

Gettler Ryan

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Dublin, CA 94568

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-8	Lab ID: 2003-07-0144 - 5
Sampled: 07/01/2003 12:31	Extracted: 7/9/2003 10:16
Matrix: Water	QC Batch#: 2003/07/09-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	170	50	ug/L	1.00	07/13/2003 03:58	ndp
<b>Surrogates(s)</b>						
o-Terphenyl	90.7	60-130	%	1.00	07/13/2003 03:58	



**Diesel**

Gettler Ryan

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Dublin, CA 94568  
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Project: 180065.80  
Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-9	Lab ID:	2003-07-0144 - 6
Sampled:	07/01/2003 10:56	Extracted:	7/9/2003 10:16
Matrix:	Water	QC Batch#:	2003/07/09-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/13/2003 04:39	
<i>Surrogates(s)</i> o-Terphenyl	56.7	60-130	%	1.00	07/13/2003 04:39	sl

**Diesel**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-10	Lab ID: 2003-07-0144 - 7
Sampled: 07/01/2003 11:16	Extracted: 7/9/2003 10:16
Matrix: Water	QC Batch#: 2003/07/09-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	87	50	ug/L	1.00	07/15/2003 13:48	
<b>Surrogates(s)</b>						
o-Terphenyl	91.1	60-130	%	1.00	07/15/2003 13:48	

**Diesel**

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568

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

Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

**Batch QC Report**

Prep(s): 3510/8015M

Method Blank

MB: 2003/07/09-04 10-001

Water

Test(s): 8015M

QC Batch # 2003/07/09-04.10

Date Extracted: 07/09/2003 10:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	07/09/2003 22:57	
<b>Surrogates(s)</b> o-Terphenyl	79.2	60-130	%	07/09/2003 22:57	

**Diesel**

Gettler Ryan

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

Project: 180065.80  
Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/07/09-04.10

LCS 2003/07/09-04.10-002

Extracted: 07/09/2003

Analyzed: 07/09/2003 21:55

LCSD 2003/07/09-04.10-003

Extracted: 07/09/2003

Analyzed: 07/09/2003 22:26

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Diesel	770	844	1000	77.0	84.4	9.2	60-130	25		
Surrogates(s) o-Terphenyl	17.1	18.3	20.0	85.6	91.7		60-130	0		

**Diesel**

Gettler Ryan

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Project: 180065.80

Conoco #5043

Received: 07/02/2003 17:40

Site: 449 Hegenberger Road, Oakland

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**Legend and Notes**

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**Result Flag**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.