



# GETTLER-RYAN INC.

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 Alameda County  
 Environmental Health

July 30, 2002  
 G-R Job #180075

G-R File #:

009327

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

**RE: Second Quarter Event of June 20, 2002**  
 Groundwater Monitoring & Sampling Report  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

Store#	257376
Report Type Code:	GWM
Description:	2 <sup>nd</sup> Qtr GWS Report 2002
Date:	7/30/02

Dear Mr. De Witt:

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

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one well (MW-5). Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is summarized in Table 2. 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 report are also attached.

Sincerely,

*Deanna L. Harding*  
 Deanna L. Harding  
 Project Coordinator

*Hagop Kevork*

Hagop Kevork  
 P.E. No. C55734

Store #	257376	Date:	7/30/02
Unit #	7376	Code:	Color <input type="checkbox"/>
Description:			

NOTE: DOUBLE SIDED & FOLDED MAPS



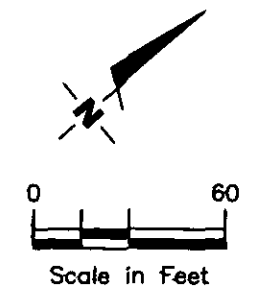
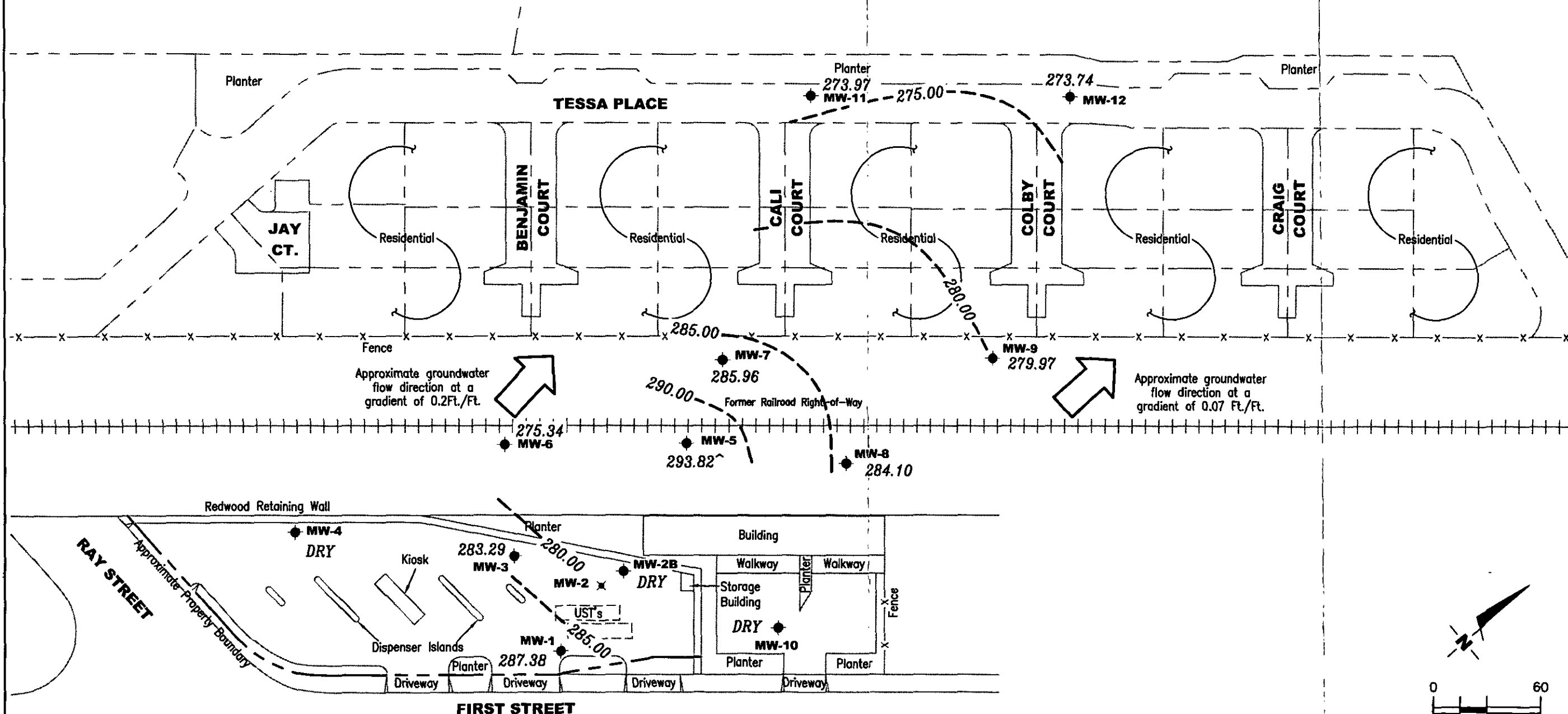
- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Product Thickness/Removal Data
- Table 3: Groundwater Analytical Results - Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling  
Field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

7376.qml

FILE #	257376	SS	X	BP	
RPT		QM	X	TRANSMITTAL	
	1	2	3	4	5 6

**EXPLANATION**

- ◆ Groundwater monitoring well
- ✕ Abandoned well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- ^ Groundwater elevation corrected for the presence of free product



FIGURE

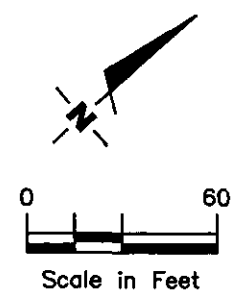
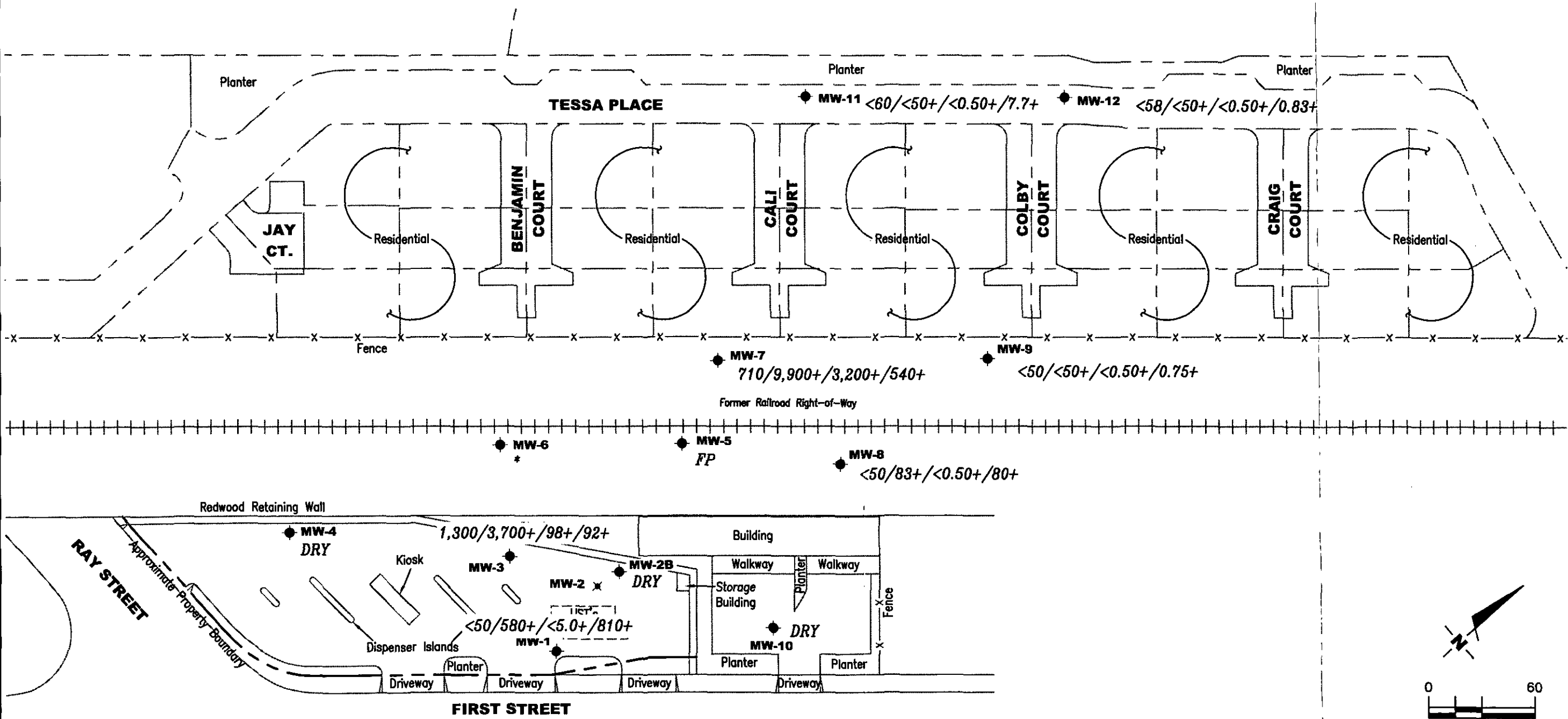
**POTENTIOMETRIC MAP**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

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

PROJECT NUMBER 180075  
 FILE NAME: P:\Environ\TOSCO\7376\002-7376.DWG | Layout: Tab: Pot2  
 REVIEWED BY  
 DATE June 20, 2002  
 REVISED DATE

**EXPLANATION**

- ◆ Groundwater monitoring well
- ✕ Abandoned well
- A/B/C/D Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Gasoline/Benzene/MTBE concentrations in ppb
- + Analysis by EPA Method 8260
- \* Insufficient Water
- FP Free Product



**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

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

PROJECT NUMBER 180075  
 FILE NAME: P:\Enviro\TOSCO\7376\002-7376.DWG | Layout Tab: Cont2  
 REVIEWED BY  
 DATE June 20, 2002  
 REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

WELL ID/ TOC*(ft.)	DATE	DIW (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-1	12/08/87 <sup>1</sup>	--	65.0-95.0	--	--	2,100 <sup>2</sup>	50 <sup>3</sup>	58	8.0	ND	10	--
366.99	12/07/94	81.04		285.95	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	80.09		286.90	0.00	120	ND	ND	1.1	ND	1.3	--
	06/01/95	77.53		289.46	0.00	54 <sup>5</sup>	130	1.0	2.9	0.79	4.5	--
	09/06/95	79.00		287.99	0.00	690	ND	ND	ND	ND	ND	-- <sup>6</sup>
	12/12/95	77.55		289.44	0.00	190 <sup>5</sup>	ND	ND	ND	ND	ND	--
	03/01/96	75.09		291.90	0.00	56	ND	ND	ND	ND	ND	370
	06/15/96	75.07		291.92	0.00	ND	ND	ND	ND	ND	ND	270
	09/18/96	79.90		287.09	0.00	130 <sup>5</sup>	ND	ND	ND	ND	ND	590
	12/21/96	78.96		288.03	0.00	ND	ND	ND	ND	ND	ND	150
	03/07/97	71.49		295.50	0.00	ND	ND	ND	ND	ND	ND	220
	06/27/97	80.05		286.94	0.00	ND	ND	ND	ND	ND	ND	17
	09/29/97	80.04		286.95	0.00	ND	ND	ND	ND	ND	ND	24
	12/15/97	80.07		286.92	0.00	ND	ND	ND	ND	ND	ND	25
	03/16/98	71.00		295.99	0.00	ND	ND	ND	0.52	ND	0.71	190
366.98	06/26/98	79.29		287.69	0.00	ND	59 <sup>13</sup>	0.90	ND	ND	ND	570
	08/18/98	79.93		287.05	0.00	--	--	--	--	--	--	--
	09/22/98	79.99		286.99	0.00	240 <sup>20</sup>	ND	ND	ND	ND	ND	170
	12/15/98	80.02		286.96	0.00	ND	ND	ND	ND	ND	ND	63
	12/23/98	80.02		286.96	0.00	--	--	--	--	--	--	--
	03/15/99	78.95		288.03	0.00	67 <sup>24</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	520
	03/23/99	78.69		288.29	0.00	--	--	--	--	--	--	--
	06/07/99	79.82		287.16	0.00	ND	ND	ND	ND	ND	ND	310
	09/03/99	79.74		287.24	0.00	76 <sup>19</sup>	ND	ND	ND	ND	ND	67/55.2 <sup>27</sup>
	12/06/99	79.74		287.24	0.00	ND	ND	ND	ND	ND	ND	120
	03/10/00	79.66		287.32	0.00	51 <sup>19</sup>	ND	ND	ND	ND	ND	100
	06/08/00	79.57		287.41	0.00	68.2 <sup>20</sup>	ND	ND	ND	ND	ND	98.9
	09/25/00	79.48		287.50	0.00	ND	ND	ND	ND	ND	ND	145
	12/19/00	79.64		287.34	0.00	ND	ND	ND	ND	ND	ND	330
	03/05/01	80.03		286.95	0.00	505 <sup>20</sup>	ND	ND	ND	ND	ND	711

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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-1	06/14/01	79.52	65.0-95.0	287.46	0.00	71 <sup>20</sup>	ND	ND	ND	ND	ND	680
(cont)	09/17/01	79.76		287.22	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	11
	09/25/01	79.71		287.27	0.00	--	--	--	--	--	--	--
	12/17/01	80.73		286.25	0.00	<53	<50	<0.50	<0.50	<0.50	<0.50	210/240 <sup>27</sup>
	03/15/02	79.51		287.47	0.00	<52	<500	<5.0	<5.0	<5.0	<5.0	1,200
	06/20/02 <sup>39</sup>	79.60		287.38	0.00	<50	580 <sup>9</sup>	<5.0	<5.0	<5.0	<10	810
MW-2	12/08/87	--	--	--	--	620 <sup>2</sup>	1,800 <sup>3</sup>	910	800	260	1,200	--
	12/07/94	DAMAGED		--	--	--	--	--	--	--	--	--
	DESTROYED											
MW-2B												
365.05	03/01/95	80.80	65.0-85.0	284.25	0.00	320	ND	ND	ND	ND	ND	--
	06/01/95	75.69		289.36	0.00	280	350	19	5.8	ND	7.7	--
	09/06/95	77.54		287.51	0.00	ND	ND	90	ND	ND	ND	-- <sup>6</sup>
	12/12/95	75.96		289.09	0.00	850 <sup>4</sup>	1,200	630	ND	15	57	-- <sup>7</sup>
	03/01/96	73.27		291.78	0.00	870 <sup>4</sup>	1,000	620	ND	ND	5.3	4,300
	06/15/96	73.21		291.84	0.00	420	910	350	ND	ND	ND	3,700
	09/18/96	81.08		283.97	0.00	600	1,200	95	ND	ND	ND	5,200
	12/21/96	77.35		287.70	0.00	470	330 <sup>8</sup>	57	ND	ND	ND	2,900
	03/07/97	69.67		295.38	0.00	870 <sup>4</sup>	190	28	0.64	ND	1.5	4,300
	06/27/97	82.40		282.65	0.00	680 <sup>4</sup>	98	3.4	1.0	0.53	ND	3,100
	09/29/97	82.72		282.33	0.00	430	ND	ND	ND	ND	ND	3,000
	12/15/97	82.57		282.48	0.00	490	54 <sup>9</sup>	ND	ND	ND	ND	4,100
	03/16/98	69.13		295.92	0.00	4,000 <sup>10</sup>	ND <sup>11</sup>	17	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	4,400
365.05	06/26/98	77.78		287.27	0.00	790 <sup>14</sup>	ND	ND	ND	ND	ND	4,000
	08/18/98	83.99		281.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.89		281.16	0.00	930 <sup>20</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	21	4,600
	12/15/98	82.84		282.21	0.00	600	ND	ND	ND	ND	ND	5,100

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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-2B	12/23/98	82.55	65.0-85.0	282.50	0.00	--	--	--	--	--	--	--
(cont)	03/15/99	77.31		287.74	0.00	390 <sup>25</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	4,300/4,800 <sup>27</sup>
	03/23/99	77.06		287.99	0.00	--	--	--	--	--	--	--
	06/07/99	82.96		282.09	0.00	770 <sup>25</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	5,100
	09/03/99	84.16		280.89	0.00	870 <sup>20</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	6,300/4,400 <sup>27</sup>
	12/06/99	84.41		280.64	0.00	850 <sup>32</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	4,400
	03/10/00	82.42		282.63	0.00	1,500 <sup>20</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	6,900
	06/08/00	82.73		282.32	0.00	-- <sup>34</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	7,780
	09/25/00	84.24		280.81	0.00	2,900 <sup>20</sup>	52.9 <sup>30</sup>	8.83	6.58	0.932	5.60	12,200
	12/19/00	84.39		280.66	0.00	700 <sup>19</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	6,000
	03/05/01	84.61		280.44	0.00	-- <sup>36</sup>	ND	ND	ND	ND	ND	5,890
NP	06/14/01	83.53		281.52	0.00	570 <sup>20</sup>	ND	ND	ND	ND	ND	6,600
	09/17/01	84.55		280.50	0.00	-- <sup>36</sup>	<200	<2.0	<2.0	<2.0	<2.0	5,100
	09/25/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--
	12/17/01	DRY				--	--	--	--	--	--	--
	03/15/02	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--
	06/20/02	DRY				--	--	--	--	--	--	--
MW-3												
	12/08/87	--	76.5-96.5	--	--	2,300 <sup>2</sup>	24,000 <sup>3</sup>	2,600	1,300	160	660	--
367.01	12/07/94	85.54		281.47	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	83.20		283.81	0.00	140 <sup>4</sup>	ND	ND	1.1	ND	1.1	--
	06/01/95	77.60		289.41	0.00	140 <sup>5</sup>	62	7.8	0.90	ND	1.6	--
	09/06/95	79.28		287.73	0.00	880 <sup>5</sup>	4,100	380	490	130	710	-- <sup>6</sup>
	12/12/95	77.73		289.28	0.00	3,100 <sup>4</sup>	19,000	600	380	2,100	5,300	-- <sup>7</sup>
	03/01/96	75.18		291.83	0.00	1,500 <sup>5</sup>	3,400	950	3.2	1,900	290	59
	06/15/96	75.13		291.88	0.00	400 <sup>4</sup>	780	190	8.8	3.8	4.0	630
	09/18/96	82.84		284.17	0.00	170	2,800	340	12	11	110	2,500
	12/21/96	79.29		287.72	0.00	64 <sup>4</sup>	51	1.3	ND	ND	0.53	20
	03/07/97	71.58		295.43	0.00	570 <sup>4</sup>	1,400	53	14	29	68	220

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 Pleasanton, 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-3	06/27/97	83.27	76.5-96.5	283.74	0.00	ND	ND	ND	ND	ND	ND	27
(cont)	09/29/97	83.33		283.68	0.00	ND	ND	ND	ND	ND	ND	11
	12/15/97	83.35		283.66	0.00	ND	ND	ND	ND	ND	ND	19
	03/16/98	71.07		295.94	0.00	670 <sup>10</sup>	130 <sup>12</sup>	6.5	1.9	1.5	1.6	210
367.03	06/26/98	79.65		287.38	0.00	63 <sup>13</sup>	400 <sup>15</sup>	15	ND <sup>11</sup>	ND <sup>11</sup>	1.9	490
	08/18/98	83.29		283.74	0.00	--	--	--	--	--	--	--
	09/22/98	83.33		283.70	0.00	95 <sup>20</sup>	ND	ND	ND	ND	ND	24
	12/15/98	83.29		283.74	0.00	ND	ND	ND	ND	ND	ND	18
	12/23/98	83.28		283.75	0.00	--	--	--	--	--	--	--
	03/15/99	79.19		287.84	0.00	3,500 <sup>26</sup>	26,000	3,100	270	2,200	3,100	1,300
	03/23/99	78.92		288.11	0.00	--	--	--	--	--	--	--
	06/07/99	83.22		283.81	0.00	ND	ND	ND	ND	0.63	ND	29
	09/03/99	83.31		283.72	0.00	2,900 <sup>20</sup>	23,000 <sup>30</sup>	770	ND <sup>11</sup>	980	6,400	280/82.4 <sup>27</sup>
	12/06/99	83.41		283.62	0.00	4,200 <sup>20</sup>	41,000 <sup>30</sup>	3,200	3,500	1,300	8,300	ND <sup>11</sup>
	03/10/00	83.23		283.80	0.00	2,500 <sup>20</sup>	5,100 <sup>30</sup>	340	ND <sup>11</sup>	97	450	200
	06/08/00	83.22		283.81	0.00	489 <sup>20</sup>	1,200 <sup>30</sup>	52.0	ND <sup>11</sup>	41.7	356	55.8
	09/25/00	83.37		283.66	0.00	4,380 <sup>20</sup>	3,400 <sup>30</sup>	305	ND <sup>11</sup>	25.4	512	137
	12/19/00	83.27		283.76	0.00	5,600 <sup>35</sup>	6,800 <sup>30</sup>	260	ND <sup>11</sup>	120	950	130
	03/05/01	83.34		283.69	0.00	3,790 <sup>20</sup>	16,800 <sup>30</sup>	1,100	48.6	637	4,260	224
	06/14/01	83.39		283.64	0.00	1,300 <sup>20</sup>	1,800 <sup>30</sup>	260	ND <sup>11</sup>	5.5	25	83
	09/17/01	84.10		282.93	0.00	290 <sup>20</sup>	<50	0.50	<0.50	<0.50	<0.50	71
	09/25/01	84.23		282.80	0.00	--	--	--	--	--	--	--
	12/17/01	83.32		283.71	0.00	700	1,800 <sup>30</sup>	120	<5.0	45	270	80/91 <sup>27</sup>
	03/15/02	83.27		283.76	0.00	3,600 <sup>38</sup>	15,000	160	<50	140	4,400	<250
	06/20/02 <sup>39</sup>	83.74		283.29	0.00	1,300 <sup>5</sup>	3,700	98	0.69	4.0	2.3	92
<b>MW-4</b>												
369.03	09/18/96	73.67	73.0-93.0	295.36	0.00	200	160	14	ND	ND	1.6	ND
	12/21/96	77.69		291.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/07/97	68.04		300.99	0.00	ND	ND	1.9	0.99	ND	1.5	ND

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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-4 (cont)	06/27/97	79.06	73.0-93.0	289.97	0.00	ND	ND	ND	ND	ND	ND	ND
	09/29/97	85.83		283.20	0.00	ND	ND	ND	ND	ND	ND	ND
	12/15/97	87.26		281.77	0.00	ND	ND	ND	ND	ND	ND	ND
368.81	03/16/98	75.09		293.94	0.00	ND	ND	ND	ND	ND	ND	ND
	06/26/98	73.81		295.00	0.00	ND	ND	ND	0.69	ND	0.82	ND
	08/18/98	78.75		290.06	0.00	630 <sup>16</sup>	100 <sup>13</sup>	62	ND	ND	ND	ND
	09/22/98	83.95		284.86	0.00	--	--	--	--	--	--	--
	12/15/98	85.41		283.40	0.00	74 <sup>20</sup>	ND	ND	ND	ND	ND	2.8
	12/23/98	84.95		283.86	0.00	ND	ND	ND	ND	ND	ND	ND
	03/15/99	78.47		290.34	0.00	--	--	--	--	--	--	--
	03/23/99	77.37		291.44	0.00	ND	ND	ND	ND	ND	ND	ND
	06/07/99	76.60		292.21	0.00	--	--	--	--	--	--	--
	09/03/99	87.23		281.58	0.00	ND	ND	ND	ND	ND	ND	ND
	12/06/99	92.23		276.58	0.00	66 <sup>19</sup>	ND	ND	ND	ND	ND	ND/ND <sup>27</sup>
	03/10/00	88.54		280.27	0.00	95 <sup>13</sup>	ND	ND	ND	ND	ND	ND
	06/08/00	86.98		281.83	0.00	ND	ND	ND	ND	ND	ND	ND
	09/25/00	DRY		--	--	72.8 <sup>20</sup>	ND	ND	ND	ND	ND	ND
	12/19/00	DRY		--	--	--	--	--	--	--	--	--
	03/05/01	DRY		--	--	--	--	--	--	--	--	--
	06/14/01	DRY		--	--	--	--	--	--	--	--	--
	09/17/01	DRY		--	--	--	--	--	--	--	--	--
	09/25/01	DRY		--	--	--	--	--	--	--	--	--
	12/17/01	DRY		--	--	--	--	--	--	--	--	--
03/15/02	DRY		--	--	--	--	--	--	--	--	--	
06/20/02	DRY		--	--	--	--	--	--	--	--	--	
MW-5												
363.23	09/18/96	64.20	52.0-72.0	299.03	0.00	4,700 <sup>5</sup>	36,000	6,700	410	730	6,500	4,100
	12/21/96	61.77		301.46	Sheen	4,700 <sup>4</sup>	25,000	3,200	300	780	3,600	2,600
	03/07/97	56.30		306.93	Sheen	2,100 <sup>4</sup>	14,000	1,300	120	410	1,200	1,700



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, 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-5	06/27/97	68.88	52.0-72.0	295.03***	0.90	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
(cont)	09/29/97	69.47		294.02***	0.35	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/15/97	64.92		298.54***	0.30	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	03/16/98	49.63		313.67***	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
363.21	06/26/98	64.13		299.08	Sheen	230,000 <sup>17</sup>	490 <sup>18</sup>	6.3	2.8	4.2	5.1	10
	08/18/98	70.40		292.81**	0.005	--	--	--	--	--	--	--
	09/22/98	69.10		294.16**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/15/98	68.84		294.50**	0.17	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/23/98	68.42		295.18**	0.50	--	--	--	--	--	--	--
	03/15/99	63.81		299.59**	0.25	--	--	--	--	--	--	--
	03/23/99	63.59		299.72**	0.13	--	--	--	--	--	--	--
	06/07/99	68.25		295.59**	0.82	4,700,000 <sup>26</sup>	210,000	6,700	3,700	5,000	20,000	11,000/4,000 <sup>27</sup>
	09/03/99	69.38		294.37**	0.70	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/06/99	70.02		293.82**	0.82	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	03/10/00	64.56		299.14**	0.64	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	06/08/00	66.47		297.13**	0.51	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	09/25/00	69.02		294.65**	0.60	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/19/00	68.31		295.01**	0.14	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	03/05/01	64.19		299.08**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	06/14/01	64.02		299.27**	0.11	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	09/17/01	72.07		291.17**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	09/25/01	72.17		291.06**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/17/01	72.11		291.12**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	03/15/02	66.93		296.45**	0.22	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	06/20/02	69.71		293.82**	0.42	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
<b>MW-6</b>												
363.12	09/18/96	79.07	68.0-88.0	284.05	0.00	ND	160	5.4	ND	ND	ND	ND
	12/21/96	75.40		287.72	0.00	ND	300 <sup>8</sup>	96	1.3	ND	1.7	21
	03/07/97	67.61		295.51	0.00	190 <sup>4</sup>	1,800 <sup>8</sup>	920	18	ND	31	290

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, 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	06/27/97	80.45	68.0-88.0	282.67	0.00	73 <sup>5</sup>	ND	0.73	ND	ND	38	38
(cont)	09/29/97	86.02		277.10	0.00	ND	62 <sup>9</sup>	ND	ND	ND	ND	43
	12/15/97	84.03		279.09	0.00	ND	78 <sup>9</sup>	ND	ND	ND	ND	39
	03/16/98	67.15		295.97	0.00	100 <sup>10</sup>	210 <sup>12</sup>	36	2.5	ND	3.0	64
363.13	06/26/98	75.71		287.42	0.00	180 <sup>14</sup>	530	300	8.3	2.8	8.7	81
	08/18/98	74.86		288.27	0.00	--	--	--	--	--	--	--
	09/22/98	UNABLE TO LOCATE			--	--	--	--	--	--	--	--
	12/15/98	UNABLE TO LOCATE			--	--	--	--	--	--	--	--
	12/23/98	80.80		282.33	0.00	--	120 <sup>23</sup>	1.1	ND	ND	0.78	25
	01/23/99	80.68		282.45	0.00	ND	--	--	--	--	--	--
	03/15/99	75.29		287.84	0.00	71 <sup>24</sup>	62 <sup>22</sup>	1.4	ND	ND	ND	23
	03/23/99	75.03		288.10	0.00	--	--	--	--	--	--	--
	06/07/99	82.27		280.86	0.00	160 <sup>28</sup>	ND	ND	ND	ND	ND	18
	09/03/99	87.49		275.64	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	12/06/99	DRY		--	--	--	--	--	--	--	--	--
	03/10/00	85.61		277.52	0.00	ND	ND	ND	ND	ND	ND	64
	06/08/00	87.36		275.77	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	09/25/00	DRY		--	--	--	--	--	--	--	--	--
	12/19/00	87.73		275.40	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	03/05/01	87.82		275.31	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	06/14/01	87.69		275.44	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	09/17/01	87.70		275.43	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	09/25/01	DRY		--	--	--	--	--	--	--	--	--
	12/17/01	87.74		275.39	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	03/15/02	87.72		275.41	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	06/20/02	87.79		275.34	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, 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)
<b>MW-7</b>												
355.97	06/26/98	--	55.0-75.0	--	--	--	--	--	--	--	--	--
	08/18/98	68.75		287.22	0.00	1,400 <sup>20</sup>	4,000	1,900	48	160	ND <sup>11</sup>	1,700
	09/22/98	66.35		289.62	0.00	780 <sup>20</sup>	3,200	1,100	ND	22	ND	1,500
	12/15/98	65.03		290.94	0.00	350 <sup>21</sup>	1,900 <sup>22</sup>	180	2.7	2.9	3.8	1,400
	12/23/98	64.82		291.15	0.00	--	--	--	--	--	--	--
	03/15/99	60.44		295.53	0.00	460 <sup>26</sup>	2,700	1,100	ND <sup>11</sup>	30	16	1,400/970 <sup>27</sup>
	03/23/99	60.43		295.54	0.00	--	--	--	--	--	--	--
	06/07/99	64.48		291.49	0.00	550 <sup>25</sup>	2,600 <sup>29</sup>	180	21	ND	13	1,200
	09/03/99	69.98		285.99	0.00	550 <sup>20</sup>	870 <sup>30</sup>	69	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	1,100/872 <sup>27</sup>
	12/06/99	70.18		285.79	0.00	220 <sup>20</sup>	1,900 <sup>31</sup>	350	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	1,100
	03/10/00	67.36		288.61	0.00	930 <sup>20</sup>	2,900 <sup>31</sup>	1,600	ND <sup>11</sup>	40	54	1,100
	06/08/00	69.81		286.16	0.00	463 <sup>20</sup>	625 <sup>30</sup>	30.8	ND	0.761	0.940	1,290 <sup>35</sup>
	09/25/00	70.15		285.82	0.00	1,810 <sup>20</sup>	2,180 <sup>22</sup>	423	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	1,510
	12/19/00	70.11		285.86	0.00	930 <sup>32</sup>	5,900 <sup>31</sup>	1,000	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	1,300
	03/05/01	68.72		287.25	0.00	801 <sup>20</sup>	13,200 <sup>30</sup>	5,070	195	306	385	1,530
	06/14/01	70.00		285.97	0.00	710 <sup>20</sup>	6,400 <sup>30</sup>	3,300	85	96	170	1,000
	09/17/01	70.28		285.69	0.00	860 <sup>20</sup>	11,000 <sup>37</sup>	3,000	<50	<50	<50	750
	09/25/01	70.49		285.48	0.00	--	--	--	--	--	--	--
	12/17/01	71.35		284.62	0.00	470	5,800 <sup>30</sup>	1,100	<10	<10	<10	760/670 <sup>27</sup>
	03/15/02	68.56		287.41	0.00	830 <sup>38</sup>	2,800	850	22	74	39	360
	06/20/02 <sup>39</sup>	70.01		285.96	0.00	710 <sup>5</sup>	9,900	3,200	23	41	<40	540
<b>MW-8</b>												
362.37	06/26/98	63.00	66.0-86.0	299.37	0.00	80 <sup>19</sup>	ND	6.0	ND	ND	ND	150
	08/18/98	73.38		288.99	0.00	--	--	--	--	--	--	--
	09/22/98	70.89		291.48	0.00	120 <sup>20</sup>	ND	ND	ND	ND	ND	9.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft.lgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8 (cont)	12/15/98	70.29										
	12/23/98	70.03	66.0-86.0	292.08	0.00							
361.83	03/15/99	UNABLE TO LOCATE		292.34	0.00	ND						
	03/23/99	64.86					ND					
	06/07/99	68.30		296.97	--	--		ND				
	09/03/99	73.92		293.53	0.00	--			ND			
	12/06/99	74.98		287.91	0.00	60 <sup>24</sup>				ND		
	03/10/00	71.54		286.85	0.00	ND	ND					3.0
	06/08/00	72.60		290.29	0.00	130 <sup>19</sup>	ND	ND	0.77			--
	09/25/00	75.31		289.23	0.00	160 <sup>19</sup>	ND	ND	ND	ND		--
	12/19/00	75.54		286.52	0.00	61 <sup>19</sup>	ND	ND	0.57	ND	0.96	190
	03/05/01	75.91		286.29	0.00	135 <sup>20</sup>	ND	ND	ND	ND	ND	ND
	06/14/01	75.51		285.92	0.00	518 <sup>20</sup>	ND	ND	ND	ND	ND	170/146 <sup>27</sup>
	09/17/01	77.19		286.32	0.00	100 <sup>19</sup>	ND	ND	ND	ND	ND	150
	09/25/01	77.17		284.64	0.00	161 <sup>20</sup>	ND	ND	ND	ND	ND	150
	12/17/01	79.94		284.66	0.00	94 <sup>20</sup>	ND	ND	ND	ND	ND	42.8
	03/15/02	76.82		281.89	0.00	60 <sup>20</sup>	ND	ND	ND	ND	ND	227
	06/20/02 <sup>39</sup>	77.73		285.01	0.00	--	<50	ND	ND	ND	ND	160
				284.10	0.00	<52	--	<0.50	ND	ND	ND	125
						69 <sup>38</sup>	<50	--	<0.50	<0.50	ND	140
						<50	<50	<0.50	--	<0.50	--	110
						83 <sup>9</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	--
							<0.50	<0.50	<0.50	<0.50	<1.0	140/170 <sup>27</sup>
												72
												80
	11/29/99	74.50		280.35								
	12/06/99	74.35		280.50	0.00							
	03/10/00	65.94		288.91	0.00							
	06/08/00	70.77		284.08	0.00	ND						
	09/25/00	74.75		280.10	0.00	150 <sup>19</sup>	ND	ND				
	12/19/00	74.43		280.42	0.00	67.8 <sup>20</sup>	ND	ND				
	03/05/01	74.63		280.22	0.00	903 <sup>20</sup>	ND	ND				
	06/14/01	74.75		280.10	0.00	ND	ND	ND	ND	ND		
	09/17/01	74.78		280.07	0.00	96.5 <sup>20</sup>	ND	ND	0.516	ND	ND	3.0/2.7 <sup>27</sup>
	09/25/01	74.83		280.02	0.00	ND	ND	ND	ND	ND	ND	2.5
												ND
												10.5
												ND
												ND
												ND
												ND
												ND
												<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, 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	12/17/01	74.80	--	280.05	0.00	<52	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0 <sup>27</sup>
(cont)	03/15/02	74.83		280.02	0.00	<51	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	06/20/02 <sup>39</sup>	74.88		279.97	0.00	<50	<50	<0.50	<0.50	<0.50	<1.0	0.75
<b>MW-10</b>												
362.62	11/29/99	DRY	--	--	--	--	--	--	--	--	--	--
	12/06/99	DRY		--	--	--	--	--	--	--	--	--
	03/10/00 <sup>33</sup>	85.04		277.58	0.00	78 <sup>20</sup>	ND	ND	ND	ND	ND	130/150 <sup>27</sup>
	06/08/00	DRY		--	--	--	--	--	--	--	--	--
	09/25/00	DRY		--	--	--	--	--	--	--	--	--
	12/19/00	DRY		--	--	--	--	--	--	--	--	--
	03/05/01	DRY		--	--	--	--	--	--	--	--	--
	06/14/01	DRY		--	--	--	--	--	--	--	--	--
	09/17/01	DRY		--	--	--	--	--	--	--	--	--
	09/25/01	DRY		--	--	--	--	--	--	--	--	--
	12/17/01	DRY		--	--	--	--	--	--	--	--	--
	03/15/02	DRY		--	--	--	--	--	--	--	--	--
	06/20/02	DRY		--	--	--	--	--	--	--	--	--
<b>MW-11</b>												
354.66	09/25/01	81.24	--	273.42	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	9.0
	12/17/01	80.47		274.19	0.00	110	<50	<0.50	<0.50	<0.50	<0.50	10/14 <sup>27</sup>
	03/15/02	79.42		275.24	0.00	140 <sup>38</sup>	<50	<0.50	<0.50	<0.50	<0.50	7.6
	06/20/02 <sup>39</sup>	80.69		273.97	0.00	<60	<50	<0.50	<0.50	<0.50	<1.0	7.7

**Table 1**  
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4191 First Street  
Pleasanton, 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)
<b>MW-12</b>												
354.08	09/25/01	80.78	--	273.30	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/17/01	80.02		274.06	0.00	77	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0 <sup>27</sup>
	03/15/02	78.88		275.20	0.00	<51	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	06/20/02 <sup>39</sup>	80.34		273.74	0.00	<58	<50	<0.50	<0.50	<0.50	<1.0	0.83
<b>Trip Blank</b>												
TB-LB	03/16/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/26/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	08/18/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/22/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/15/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/23/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/15/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/23/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/07/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/03/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/06/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/10/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/08/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/25/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/19/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/05/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/14/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/17/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/25/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/17/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/15/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	06/20/02 <sup>39</sup>	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to March 16, 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	NP = No Purge
(ft.bgs) = Feet Below Ground Surface	E = Ethylbenzene	QA = Quality Assurance
GWE = Groundwater Elevation	X = Xylenes	
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	

\* TOC elevations were re-surveyed September 22, 2001, using the previous measurement references, (Benchmark Elevation = 353.92 feet, NGVD 29). On March 22, 1999, MW-8 was re-surveyed and on November 26, 1999, MW-9 and MW-10 were surveyed, the Benchmark was a cut "+" on a concrete transformer pad on the north side of the property to the northwest, (Elevation = 353.92 feet, msl).

TOC elevations have been surveyed relative to msl per City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (Elevation = 367.17 feet msl).

\*\* GWE corrected for the presence of free product; correction factor: [(TOC - DTW) + (Product Thickness x 0.77)].

\*\*\* GWE corrected for the presence of free product; correction factor: [(TOC - DTW) + (Product Thickness x 0.75)].

- 1 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.
- 2 Reported as Total Extractable Hydrocarbons (TEH).
- 3 Reported as Total Petroleum Hydrocarbons (TPH).
- 4 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 5 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 6 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- 7 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 8 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 9 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 10 Laboratory report indicates diesel and unidentified hydrocarbons >C16.
- 11 Detection limit raised. Refer to analytical reports.
- 12 Laboratory report indicates gasoline and unidentified hydrocarbons <C7.
- 13 Laboratory report indicates discrete peaks.
- 14 Laboratory report indicates diesel and unidentified hydrocarbons >C20.
- 15 Laboratory report indicates discrete peaks and unidentified hydrocarbons <C7.
- 16 Laboratory report indicates diesel and unidentified hydrocarbons <C15.

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #7376  
4191 First Street  
Pleasanton, California

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**EXPLANATIONS: (cont)**

- 17 Laboratory report indicates diesel and unidentified hydrocarbons <C15 and >C20.
- 18 Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
- 19 Laboratory report indicates unidentified hydrocarbons >C16.
- 20 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 21 Laboratory report indicates diesel and unidentified hydrocarbons <C12.
- 22 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 23 Laboratory report indicates unidentified hydrocarbons C6-C9.
- 24 Laboratory report indicates unidentified hydrocarbons >C14.
- 25 Laboratory report indicates unidentified hydrocarbons >C10.
- 26 Laboratory report indicates unidentified hydrocarbons >C9.
- 27 MTBE by EPA Method 8260.
- 28 Laboratory report indicates unidentified hydrocarbons >C15.
- 29 Laboratory report indicates gasoline and unidentified hydrocarbons >C6.
- 30 Laboratory report indicates gasoline C6-C12.
- 31 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.
- 32 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 33 Well re-developed.
- 34 The diesel container for MW-2 was broken at lab, therefore; unable to report diesel result.
- 35 Laboratory report indicates unidentified hydrocarbons <C16.
- 36 Laboratory was unable to report diesel result due to insufficient amount of sample.
- 37 Laboratory report indicates unidentified hydrocarbons C6-C10.
- 38 Laboratory report indicates unidentified hydrocarbons C10-C28.
- 39 TPH-G, BTEX and MTBE by EPA Method 8260.



**Table 2**  
**Product Thickness/Removal Data**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

<b>WELL ID</b>	<b>DATE</b>	<b>DTW (ft.)</b>	<b>Product Thickness (ft.)</b>	<b>Amount Bailed (Product + Water) (gallons)</b>
MW-5	03/07/97	56.30	Sheen	--
	06/27/97	68.88	0.90	--
	09/29/97	69.47	0.35	--
	12/15/97	64.92	0.30	--
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	--
	08/18/98	70.40	0.005	--
	09/22/98	69.10	0.06	--
	12/15/98	68.84	0.17	--
	12/23/98	68.42	0.50	--
	03/15/99	63.81	0.25	0.13
	03/23/99	63.59	0.13	0.00
	06/07/99	68.25	0.82	0.94
	09/03/99	69.38	0.70	0.078
	12/06/99	70.02	0.82	0.00
	03/10/00	64.56	0.64	0.00
	06/08/00	66.47	0.51	0.00
	09/25/00	69.02	0.60	0.00
	12/19/00	68.31	0.14	0.00
	03/05/01	64.19	0.08	0.00
	06/14/01	64.02	0.11	0.00
	09/17/01	72.07	0.04	0.00
	09/25/01	72.17	0.03	0.00
	12/17/01	72.11	0.03	0.00
	03/15/02	66.93	0.22	0.00
	<b>06/20/02</b>	<b>69.71</b>	<b>0.42</b>	<b>0.00</b>

**EXPLANATIONS:**

Product thickness/removal data prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	09/03/99	ND	ND	55.2	ND	ND	ND	--	--
	12/17/01	<1,000	<40	240	<2.0	<2.0	<2.0	<2.0	<2.0
	06/20/02	--	--	810	--	--	--	--	--
MW-2B	03/15/99	ND	3,800	4,800	13	ND	ND	--	--
	09/03/99	ND <sup>2</sup>	3,480	4,400	ND <sup>2</sup>	ND <sup>2</sup>	ND <sup>2</sup>	--	--
	12/17/01	DRY	--	--	--	--	--	--	--
MW-3	09/03/99	ND	ND	82.4	ND	ND	ND	--	--
	12/17/01	<500	26	91	<1.0	<1.0	<1.0	<1.0	<1.0
	06/20/02	--	--	92	--	--	--	--	--
MW-4	09/03/99	ND	ND	ND	ND	ND	ND	--	--
	12/17/01	DRY	--	--	--	--	--	--	--
MW-5	06/07/99	ND <sup>2</sup>	ND <sup>2</sup>	4,000 <sup>1</sup>	ND <sup>2</sup>	ND <sup>2</sup>	ND <sup>2</sup>	--	--
	09/03/99	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--	--
	12/17/01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--	--
MW-6	12/14/01	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--
MW-7	03/15/99	ND	610	970	4.3	ND	ND	--	--
	09/03/99	ND <sup>2</sup>	460	872	4.36	ND <sup>2</sup>	ND <sup>2</sup>	--	--
	12/17/01	<5,000	<200	670	<10	<10	<10	<10	<10
	06/20/02	--	--	540	--	--	--	--	--

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #7376  
 4191 First Street  
 Pleasanton, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-8	09/03/99	ND	ND	146	12.4	ND	ND	--	--
	12/17/01	<500	77	170	9.8	<1.0	<1.0	<1.0	<1.0
	06/20/02	--	--	80	--	--	--	--	--
MW-9	12/06/99	--	ND	2.7	ND	ND	ND	ND	ND
	12/17/01	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	06/20/02	--	--	0.75	--	--	--	--	--
MW-10	03/10/00	--	ND	150	ND	ND	ND	22	ND
	12/17/01	DRY	--	--	--	--	--	--	--
MW-11	12/17/01	<500	<20	14	<1.0	<1.0	<1.0	<1.0	<1.0
	06/20/02	--	--	7.7	--	--	--	--	--
MW-12	12/17/01	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	06/20/02	--	--	0.83	--	--	--	--	--
TRIP BLANK QA	06/20/02	--	--	<0.50	--	--	--	--	--

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (Unocal) Service Station #7376  
4191 First Street  
Pleasanton, 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 = Dichloroethane  
EDB = 1,2-Dibromoethane  
(ppb) = Parts per billion  
ND = Not Detected  
QA = Quality Assurance  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

- <sup>1</sup> Laboratory results indicate sample contains high concentration of Hexane.  
<sup>2</sup> Detection limit raised. Refer to analytical reports.

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by 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 #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: JT

Well ID: MW-1 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 86.40 ft. Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: 79.60 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

6.80 xVF 0.17 = 1.15 x3 (case volume) = Estimated Purge Volume: 3.5 gal.

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

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

Start Time (purge): 1005 Weather Conditions: clear  
 Sample Time/Date: 1035 6/20/02 Water Color: clear Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (CE)	D.O. (mg/L)	ORP (mV)
<u>1013</u>	<u>1.6</u>	<u>7.71</u>	<u>904</u>	<u>67.6</u>	_____	_____
<u>1020</u>	<u>3</u>	<u>7.56</u>	<u>891</u>	<u>68.1</u>	_____	_____
<u>1030</u>	<u>3.5</u>	<u>7.52</u>	<u>878</u>	<u>68.5</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G,BTEX,MTBE by 8260</u>
<u>MW-1</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 #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW- 2B Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 85.30 ft. Thickness: 0.00 ft. (product/water): \_\_\_\_\_ gal.  
 Depth to Water: DRY 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

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

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

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

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

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

### LABORATORY INFORMATION

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

COMMENTS: well is dry.

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW- 3 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 94.20 ft. Thickness: 0.00 ft. (product/water): 7 gal.  
 Depth to Water: 83.74 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

10.46 xVF 0.17 = 1.77 x3 (case volume) = Estimated Purge Volume: 5.5 gal.

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

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

Start Time (purge): 1510 Weather Conditions: depos  
 Sample Time/Date: 1540/6/20/02 Water Color: clear Odor: 7  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)
<u>1514</u>	<u>2</u>	<u>7.44</u>	<u>1061</u>	<u>70.1</u>		
<u>1518</u>	<u>4</u>	<u>7.30</u>	<u>1069</u>	<u>69.6</u>		
<u>1520</u>	<u>5.5</u>	<u>7.27</u>	<u>1073</u>	<u>69.3</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 3	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G,BTEX,MTBE by 8260
MW- 3	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 #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW-4 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 92.95 ft. Thickness: 0.00 ft. (product/water): 2 gal.  
 Depth to Water: DRY 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

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

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

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

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

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

### LABORATORY INFORMATION

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

COMMENTS: well is dry.

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW-5 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 72.50 ft. Thickness: 0.42 ft. (product/water): 0 gal.  
 Depth to Water: 69.71 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

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

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

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

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

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

### LABORATORY INFORMATION

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

COMMENTS: Not sampled due to the presence of Free Product.

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: UT

Well ID: MW-6 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 88.10 ft. Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: 87.79 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

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

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

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

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

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

### LABORATORY INFORMATION

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

COMMENTS: insufficient water to sample.

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW-7 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 76.65 ft. Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: 70.01 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

6.64 xVF 0.17 = 1.12 x3 (case volume) = Estimated Purge Volume: 3.5 gal.

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

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

Start Time (purge): 1420 Weather Conditions: clear  
 Sample Time/Date: 1450 6/20/02 Water Color: brn. Odor: 7  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: silt  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1427</u>	<u>1</u>	<u>7.50</u>	<u>1095</u>	<u>68.4</u>	_____	_____
<u>1434</u>	<u>2</u>	<u>7.36</u>	<u>1082</u>	<u>68.8</u>	_____	_____
<u>1443</u>	<u>3.5</u>	<u>7.31</u>	<u>1079</u>	<u>69.3</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x vov vial	YES	HCL	STL Pleasanton	TPH-G,BTEX,MTBE by 8260
MW-7	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 #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW- 8 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: ~~88.70~~ ft. 84.45 Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: ~~87.79~~ ft. 77.73

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

622 xVF 0.17 = 1.14 x3 (case volume) = Estimated Purge Volume: 3.5 gal.

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

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

Start Time (purge): 1230 Weather Conditions: clear  
 Sample Time/Date: 1300 6/20/02 Water Color: brn. Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: Silt  
 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>1237</u>	<u>1</u>	<u>7.60</u>	<u>815</u>	<u>68.0</u>		
<u>1245</u>	<u>2</u>	<u>7.52</u>	<u>802</u>	<u>68.6</u>		
<u>1254</u>	<u>3.5</u>	<u>7.49</u>	<u>796</u>	<u>68.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW- 8</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G,BTEX,MTBE by 8260</u>
<u>MW- 8</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 #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW-9 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 78.15 ft. Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: 74.88 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

3.27 xVF 0.17 = 0.55 x3 (case volume) = Estimated Purge Volume: 1.5 gal.

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

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

Start Time (purge): 1325 Weather Conditions: clear  
 Sample Time/Date: 1350 16/20/02 Water Color: slightly brn. Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: silt  
 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>1330</u>	<u>0.5</u>	<u>7.62</u>	<u>693</u>	<u>68.3</u>		
<u>1336</u>	<u>1</u>	<u>7.54</u>	<u>681</u>	<u>68.8</u>		
<u>1342</u>	<u>1.5</u>	<u>7.51</u>	<u>674</u>	<u>69.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 x vial	YES	HCL	STL Pleasanton	TPH-G,BTEX,MTBE by 8260
MW-9	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 #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: JT

Well ID: MW-10 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 93.45 ft. Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: DRY 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

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

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

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

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

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

### LABORATORY INFORMATION

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

COMMENTS: Well is dry.

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW-11 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 86.40 ft. Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: 80.69 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

5.71 xVF 0.17 = 0.97 x3 (case volume) = Estimated Purge Volume: 3 gal.

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

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

Start Time (purge): 1140 Weather Conditions: clear  
 Sample Time/Date: 12/06/20/02 Water Color: brn. Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: silt  
 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>1147</u>	<u>1</u>	<u>7.50</u>	<u>717</u>	<u>68.7</u>		
<u>1154</u>	<u>2</u>	<u>7.41</u>	<u>704</u>	<u>69.2</u>		
<u>1205</u>	<u>3</u>	<u>7.42</u>	<u>698</u>	<u>69.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G,BTEX,MTBE by 8260
MW-11	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 #7376 Job Number: 180075  
 Site Address: 4191 First Street Event Date: 6/20/02  
 City: Pleasanton, CA Sampler: VT

Well ID: MW-12 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 89.50 ft. Thickness: 0.00 ft. (product/water): 0 gal.  
 Depth to Water: 80.34 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

9.16 xVF 0.17 = 1.55 x3 (case volume) = Estimated Purge Volume: 5 gal.

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

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

Start Time (purge): 1055 Weather Conditions: clear  
 Sample Time/Date: 1125 6/20/02 Water Color: brn. Odor: NO  
 Purging Flow Rate: 0.5 gpm. Sediment Description: 5 ft  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (CF)	D.O. (mg/L)	ORP (mV)
<u>1058</u>	<u>1.5</u>	<u>7.60</u>	<u>793</u>	<u>67.9</u>		
<u>1107</u>	<u>3</u>	<u>7.48</u>	<u>780</u>	<u>68.5</u>		
<u>1105</u>	<u>5</u>	<u>7.45</u>	<u>782</u>	<u>68.4</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G,BTEX,MTBE by 8260</u>
<u>MW-12</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: \_\_\_\_\_

# 2002-06-0395

67030

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

Tasco Corp./  
Phillips 88 Co.  
2000 Crow Canyon Place  
Suite 400  
San Ramon, CA 94583

Facility Number #7376  
Facility Address 4191 FIRST STREET, PLEASANTON, CA  
Global ID T0600100101 Project 180075.80  
Client Contact MR. DAVID B. DEWITT  
Phone (925) 277-2384

Laboratory Name STL - PLEASANTON, CA  
Consultant GETTLER-RYAN, INC. DEANNA L. HARDING  
Address 6747 SIERRA CT., SUITE J, DUBLIN CA 94568  
Phone (925) 551-7555 Fax (925) 551-7899  
Samples Collected by Vartkes Tashjian

9256003002

SAMPLE ID	Number of Containers Matrix	S = Soil W = Water A = Air C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 8520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HMOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W	HCL	6/20/02					X									
MW-1	4	"	"	" 1035		X			X									
MW-3	4	"	"	" 1540		X			X									
MW-7	4	"	"	" 1450		X			X									
MW-8	4	"	"	" 1300		X			X									
MW-9	4	"	"	" 1350		X			X									
MW-11	4	"	"	" 1210		X			X									
MW-12	4	"	"	" 1125		X			X									

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

Relinquished By (Signature) <i>Deanna L. Harding</i>	Organization <u>G-R</u>	Date/Time <u>6/20/02</u>	Received By (Signature) <i>[Signature]</i>	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>[Signature]</i>		Date/Time <u>6-20-02</u>	Iced <input checked="" type="checkbox"/>	

6.0°C

Jul 09 02 10:42a  
st10nsite  
www.st10nsite.com | Layout Tab: Model

**Gettler Ryan**

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn: Ms. Deanna Harding

Project: 180075.80  
Tosco # 7376

Site: 4191 First Street, Pleasanton, 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

Dear Ms. Harding,


Attached is our report for your samples received on Thursday June 20, 2002  
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  
August 4, 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 #: 2002-06-0395

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: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA  
CA DHS ELAP# 2496

**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

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	06/20/2002	Water	1
MW-1	06/20/2002 10:35	Water	2
MW-3	06/20/2002 15:40	Water	3
MW-7	06/20/2002 14:50	Water	4
MW-8	06/20/2002 13:00	Water	5
MW-9	06/20/2002 13:50	Water	6
MW-11	06/20/2002 12:10	Water	7
MW-12	06/20/2002 11:25	Water	8

Submission #: 2002-06-0395

Gas/BTEXFuel 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: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA DHS ELAP# 2496

**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

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: QA	Lab ID: 2002-06-0395 - 1
Sampled: 06/20/2002	Extracted: 6/25/2002 16:38
Matrix: Water	QC Batch#: 2002/06/25-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/25/2002 16:38	
Benzene	ND	0.50	ug/L	1.00	06/25/2002 16:38	
Toluene	ND	0.50	ug/L	1.00	06/25/2002 16:38	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2002 16:38	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2002 16:38	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/25/2002 16:38	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	85.6	76-114	%	1.00	06/25/2002 16:38	
Toluene-d8	100.0	88-110	%	1.00	06/25/2002 16:38	

Submission #: 2002-06-0395

Gas/BTEXFuel 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: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA  
CA DHS ELAP# 2496

**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

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2002-06-0395 - 2
Sampled: 06/20/2002 10:35	Extracted: 6/26/2002 14:29
Matrix: Water	QC Batch#: 2002/06/26-01.62
Analysis Flag: o ( See Legent and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	580	500	ug/L	10.00	06/26/2002 14:29	g
Benzene	ND	5.0	ug/L	10.00	06/26/2002 14:29	
Toluene	ND	5.0	ug/L	10.00	06/26/2002 14:29	
Ethylbenzene	ND	5.0	ug/L	10.00	06/26/2002 14:29	
Total xylenes	ND	10	ug/L	10.00	06/26/2002 14:29	
Methyl tert-butyl ether (MTBE)	810	5.0	ug/L	10.00	06/26/2002 14:29	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	87.6	76-114	%	10.00	06/26/2002 14:29	
Toluene-d8	99.4	88-110	%	10.00	06/26/2002 14:29	

Submission #: 2002-06-0395

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: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA  
CA DHS ELAP# 2496

**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

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2002-06-0395 - 3
Sampled:	06/20/2002 15:40	Extracted:	6/28/2002 13:03
Matrix:	Water	QC Batch#:	2002/06/28-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3700	50	ug/L	1.00	06/28/2002 13:03	
Benzene	98	0.50	ug/L	1.00	06/28/2002 13:03	
Toluene	0.69	0.50	ug/L	1.00	06/28/2002 13:03	
Ethylbenzene	4.0	0.50	ug/L	1.00	06/28/2002 13:03	
Total xylenes	2.3	1.0	ug/L	1.00	06/28/2002 13:03	
Methyl tert-butyl ether (MTBE)	92	0.50	ug/L	1.00	06/28/2002 13:03	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	124.6	76-114	%	1.00	06/28/2002 13:03	sh
Toluene-d8	99.1	88-110	%	1.00	06/28/2002 13:03	

Submission #: 2002-06-0395

Gas/BTEXFuel Oxygenates by 8260B

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Prep(s): 5030B      Test(s): 8260FAB  
Sample ID: MW-7      Lab ID: 2002-06-0395 - 4  
Sampled: 06/20/2002 14:50      Extracted: 6/28/2002 13:25  
Matrix: Water      QC Batch#: 2002/06/28-01.62  
Analysis Flag: o ( See Legent and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	9900	2000	ug/L	40.00	06/28/2002 13:25	
Benzene	3200	20	ug/L	40.00	06/28/2002 13:25	
Toluene	23	20	ug/L	40.00	06/28/2002 13:25	
Ethylbenzene	41	20	ug/L	40.00	06/28/2002 13:25	
Total xylenes	ND	40	ug/L	40.00	06/28/2002 13:25	
Methyl tert-butyl ether (MTBE)	540	20	ug/L	40.00	06/28/2002 13:25	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	120.2	76-114	%	40.00	06/28/2002 13:25	sh
Toluene-d8	99.8	88-110	%	40.00	06/28/2002 13:25	



Submission #: 2002-06-0395

Gas/BTEX Fuel Oxygenates by 8260B

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Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-8	Lab ID: 2002-06-0395 - 5
Sampled: 06/20/2002 13:00	Extracted: 6/25/2002 20:25
Matrix: Water	QC Batch#: 2002/06/25-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	83	50	ug/L	1.00	06/25/2002 20:25	g
Benzene	ND	0.50	ug/L	1.00	06/25/2002 20:25	
Toluene	ND	0.50	ug/L	1.00	06/25/2002 20:25	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2002 20:25	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2002 20:25	
Methyl tert-butyl ether (MTBE)	80	0.50	ug/L	1.00	06/25/2002 20:25	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	88.2	76-114	%	1.00	06/25/2002 20:25	
Toluene-d8	94.7	88-110	%	1.00	06/25/2002 20:25	

Submission #: 2002-06-0395

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180075.80  
Tosco # 7376

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Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-9	Lab ID: 2002-06-0395 - 6
Sampled: 06/20/2002 13:50	Extracted: 6/25/2002 20:02
Matrix: Water	QC Batch#: 2002/06/25-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/25/2002 20:02	
Benzene	ND	0.50	ug/L	1.00	06/25/2002 20:02	
Toluene	ND	0.50	ug/L	1.00	06/25/2002 20:02	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2002 20:02	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2002 20:02	
Methyl tert-butyl ether (MTBE)	0.75	0.50	ug/L	1.00	06/25/2002 20:02	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	82.5	76-114	%	1.00	06/25/2002 20:02	
Toluene-d8	97.1	88-110	%	1.00	06/25/2002 20:02	



Submission #: 2002-06-0395

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Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-12	Lab ID:	2002-06-0395 - 8
Sampled:	06/20/2002 11:25	Extracted:	6/25/2002 19:17
Matrix:	Water	QC Batch#:	2002/06/25-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/25/2002 19:17	
Benzene	ND	0.50	ug/L	1.00	06/25/2002 19:17	
Toluene	ND	0.50	ug/L	1.00	06/25/2002 19:17	
Ethylbenzene	ND	0.50	ug/L	1.00	06/25/2002 19:17	
Total xylenes	ND	1.0	ug/L	1.00	06/25/2002 19:17	
Methyl tert-butyl ether (MTBE)	0.83	0.50	ug/L	1.00	06/25/2002 19:17	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	83.9	76-114	%	1.00	06/25/2002 19:17	
Toluene-d8	89.3	88-110	%	1.00	06/25/2002 19:17	

Submission #: 2002-06-0395

Gas/BTEXFuel Oxygenates by 8260B

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Project: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA CA DHS ELAP# 2496

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Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/06/25-01.62-000

Water

Test(s): 8260FAB

QC Batch # 2002/06/25-01.62

Date Extracted: 06/25/2002 13:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/25/2002 13:00	
Benzene	ND	0.5	ug/L	06/25/2002 13:00	
Toluene	ND	0.5	ug/L	06/25/2002 13:00	
Ethylbenzene	ND	0.5	ug/L	06/25/2002 13:00	
Total xylenes	ND	1.0	ug/L	06/25/2002 13:00	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/25/2002 13:00	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	84.5	76-114	%	06/25/2002 13:00	
Toluene-d8	100.9	88-110	%	06/25/2002 13:00	

Submission #: 2002-06-0395

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180075.80  
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Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/06/26-01.62-051

Water

Test(s): 8260FAB

QC Batch # 2002/06/26-01.62

Date Extracted: 06/26/2002 11:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/26/2002 11:51	
Benzene	ND	0.5	ug/L	06/26/2002 11:51	
Toluene	ND	0.5	ug/L	06/26/2002 11:51	
Ethylbenzene	ND	0.5	ug/L	06/26/2002 11:51	
Total xylenes	ND	1.0	ug/L	06/26/2002 11:51	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/26/2002 11:51	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	87.0	76-114	%	06/26/2002 11:51	
Toluene-d8	98.4	88-110	%	06/26/2002 11:51	

Submission #: 2002-06-0395

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Gas/BTEXFuel Oxygenates by 8260B

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Project: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2002/06/28-01.62

MB: 2002/06/28-01.62-011

Date Extracted: 06/28/2002 12:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/28/2002 12:11	
Benzene	ND	0.5	ug/L	06/28/2002 12:11	
Toluene	ND	0.5	ug/L	06/28/2002 12:11	
Ethylbenzene	ND	0.5	ug/L	06/28/2002 12:11	
Total xylenes	ND	1.0	ug/L	06/28/2002 12:11	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/28/2002 12:11	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	84.4	76-114	%	06/28/2002 12:11	
Toluene-d8	98.2	88-110	%	06/28/2002 12:11	

Submission #: 2002-06-0395

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA CA DHS ELAP# 2496

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Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/06/25-01.62

LCS 2002/06/25-01.62-015

Extracted: 06/25/2002

Analyzed: 06/25/2002 12:15

LCSD 2002/06/25-01.62-038

Extracted: 06/25/2002

Analyzed: 06/25/2002 12:38

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.4	25.0	25.0	97.6	100.0	2.4	69-129	20		
Toluene	25.4	26.4	25.0	101.6	105.6	3.9	70-130	20		
Methyl tert-butyl ether (MTBE)	27.6	26.6	25.0	110.4	106.4	3.7	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	484	467	500	96.8	93.4		76-114			
Toluene-d8	504	520	500	100.8	104.0		88-110			



Submission #: 2002-06-0395

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA DHS ELAP# 2496

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**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/06/26-01.62**

LCS 2002/06/26-01.62-006

Extracted: 06/26/2002

Analyzed: 06/26/2002 11:06

LCSD 2002/06/26-01.62-028

Extracted: 06/26/2002

Analyzed: 06/26/2002 11:28

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	24.8	24.3	25.0	99.2	97.2	2.0	69-129	20		
Toluene	24.2	24.1	25.0	96.8	96.4	0.4	70-130	20		
Methyl tert-butyl ether (MTBE)	28.1	26.0	25.0	112.4	104.0	7.8	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	484	475	500	96.8	95.0		76-114			
Toluene-d8	502	494	500	100.4	98.8		88-110			

Submission #: 2002-06-0395

Gas/BTEX Fuel Oxygenates by 8260B

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---

### Legend and Notes

---

#### 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.

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Submission #: 2002-06-0395

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180075.80  
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Received: 06/20/2002 16:35

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Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/06/28-01.62

LCS 2002/06/28-01.62-026

Extracted: 06/28/2002

Analyzed: 06/28/2002 11:26

LCSD 2002/06/28-01.62-049

Extracted: 06/28/2002

Analyzed: 06/28/2002 11:49

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.4	25.0	25.0	97.6	100.0	2.4	69-129	20		
Toluene	25.5	25.7	25.0	102.0	102.8	0.8	70-130	20		
Methyl tert-butyl ether (MTBE)	29.4	26.9	25.0	117.6	107.6	8.9	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	497	476	500	99.4	95.2		76-114			
Toluene-d8	497	496	500	99.4	99.2		88-110			

Submission #: 2002-06-0395

Diesel

Gettler Ryan

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Project: 180075.80  
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### Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	06/20/2002 10:35	Water	2
MW-3	06/20/2002 15:40	Water	3
MW-7	06/20/2002 14:50	Water	4
MW-8	06/20/2002 13:00	Water	5
MW-9	06/20/2002 13:50	Water	6
MW-11	06/20/2002 12:10	Water	7
MW-12	06/20/2002 11:25	Water	8

Submission #: 2002-06-0395

Diesel

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Prep(s): 3510/8015M      Test(s): 8015M  
Sample ID: MW-1      Lab ID: 2002-06-0395 - 2  
Sampled: 06/20/2002 10:35      Extracted: 6/21/2002 08:36  
Matrix: Water      QC Batch#: 2002/06/21-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	06/24/2002 11:54	
<b>Surrogates(s)</b> o-Terphenyl	83.5	60-130	%	1.00	06/24/2002 11:54	

Submission #: 2002-06-0395

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LABORATORY

Diesel

Gettler Ryan

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Project: 180075.80  
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Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-3	Lab ID:	2002-06-0395 - 3
Sampled:	06/20/2002 15:40	Extracted:	6/21/2002 08:36
Matrix:	Water	QC Batch#:	2002/06/21-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1300	50	ug/L	1.00	06/24/2002 12:31	ndp
<i>Surrogates(s)</i> o-Terphenyl	82.0	60-130	%	1.00	06/24/2002 12:31	

Submission #: 2002-06-0395

Diesel

Gettler Ryan

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Project: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA  
CA DHS ELAP# 2496

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www.chromalab.com

Prep(s): 3510/8015M      Test(s): 8015M  
Sample ID: MW-7      Lab ID: 2002-06-0395 - 4  
Sampled: 06/20/2002 14:50      Extracted: 6/21/2002 08:36  
Matrix: Water      QC Batch#: 2002/06/21-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	710	50	ug/L	1.00	06/24/2002 13:08	ndp
<i>Surrogates(s)</i> o-Terphenyl	90.7	60-130	%	1.00	06/24/2002 13:08	

Submission #: 2002-06-0395

Diesel

Gettler Ryan

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

Project: 180075.80  
Tosco # 7376

Received: 06/20/2002 16:35

Site: 4191 First Street, Pleasanton, CA  
CA DHS ELAP# 2496

**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

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-8	Lab ID: 2002-06-0395 - 5
Sampled: 06/20/2002 13:00	Extracted: 6/21/2002 08:36
Matrix: Water	QC Batch#: 2002/06/21-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	06/24/2002 13:08	
<i>Surrogates(s)</i> o-Terphenyl	92.8	60-130	%	1.00	06/24/2002 13:08	



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Diesel

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Site: 4191 First Street, Pleasanton, CA CA DHS ELAP# 2496

Prep(s): 3510/8015M

Test(s): 8015M

Sample ID: MW-9

Lab ID: 2002-06-0395 - 6

Sampled: 06/20/2002 13:50

Extracted: 6/21/2002 08:36

Matrix: Water

QC Batch#: 2002/06/21-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	06/24/2002 13:13	
<b>Surrogates(s)</b> o-Terphenyl	87.1	60-130	%	1.00	06/24/2002 13:13	

Submission #: 2002-06-0395

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Diesel

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Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MW-11	Lab ID: 2002-06-0395 - 7
Sampled: 06/20/2002 12:10	Extracted: 6/21/2002 08:36
Matrix: Water	QC Batch#: 2002/06/21-02.10
Analysis Flag: rl ( See Legent and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	60	ug/L	1.19	06/24/2002 12:36	
<i>Surrogates(s)</i> o-Terphenyl	89.5	60-130	%	1.19	06/24/2002 12:36	

Submission #: 2002-06-0395

Diesel

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Project: 180075.80  
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Prep(s): 3510/8015M Test(s): 8015M  
Sample ID: MW-12 Lab ID: 2002-06-0395 - 8  
Sampled: 06/20/2002 11:25 Extracted: 6/21/2002 08:36  
Matrix: Water QC Batch#: 2002/06/21-02.10  
Analysis Flag: rl ( See Legent and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	58	ug/L	1.16	06/24/2002 13:30	
<i>Surrogates(s)</i> o-Terphenyl	90.6	60-130	%	1.16	06/24/2002 13:30	

Submission #: 2002-06-0395

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Diesel

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www.chromalab.com

Site: 4191 First Street, Pleasanton, CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2002/06/21-02.10-001

Water

Test(s): 8015M

QC Batch # 2002/06/21-02.10

Date Extracted: 06/21/2002 08:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	06/21/2002 12:45	
<b>Surrogates(s)</b> o-Terphenyl	100.6	60-130	%	06/21/2002 12:45	

Submission #: 2002-06-0395

Diesel

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Project: 180075.80  
Tosco # 7376

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Site: 4191 First Street, Pleasanton, CA CA DHS ELAP# 2496

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Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/06/21-02.10

LCS 2002/06/21-02.10-002

Extracted: 06/21/2002

Analyzed: 06/21/2002 11:30

LCSD 2002/06/21-02.10-003

Extracted: 06/21/2002

Analyzed: 06/21/2002 12:07

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	869	852	1250	69.5	68.2	1.9	60-130	25		
Surrogates(s) o-Terphenyl	15.5	15.3	20.0	77.4	76.5		60-130	0		

Submission #: 2002-06-0395

Diesel

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CA DHS ELAP# 2496

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**Legend and Notes**

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**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