



# GETTLER-RYAN INC.

## TRANSMITTAL

Alameda County  
SEP 26 2002  
Environmental Health

September 6, 2002  
G-R #180066

~~REDACTED~~

TO: Mr. David B. De Witt  
Phillips 66 Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94586

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  
#0752  
800 Harrison Street  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 26, 2002	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of July 15, 2002

### COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **September 20, 2002**, this report will be distributed to the following:

cc: Mr. Barney Chan, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502

Enclosure

trans/0752-DBD



# GETTLER-RYAN INC.

August 26, 2002  
G-R Job #180066

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

**RE: Second Semi-Annual Event of July 15, 2002**  
Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #0752  
800 Harrison Street  
Oakland, California

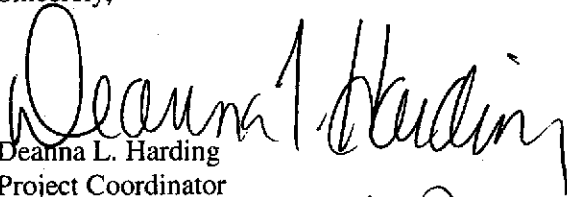
Dear Mr. De Witt:

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. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 5. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

  
Deanna L. Harding  
Project Coordinator

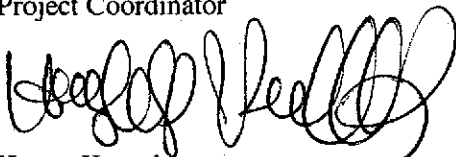
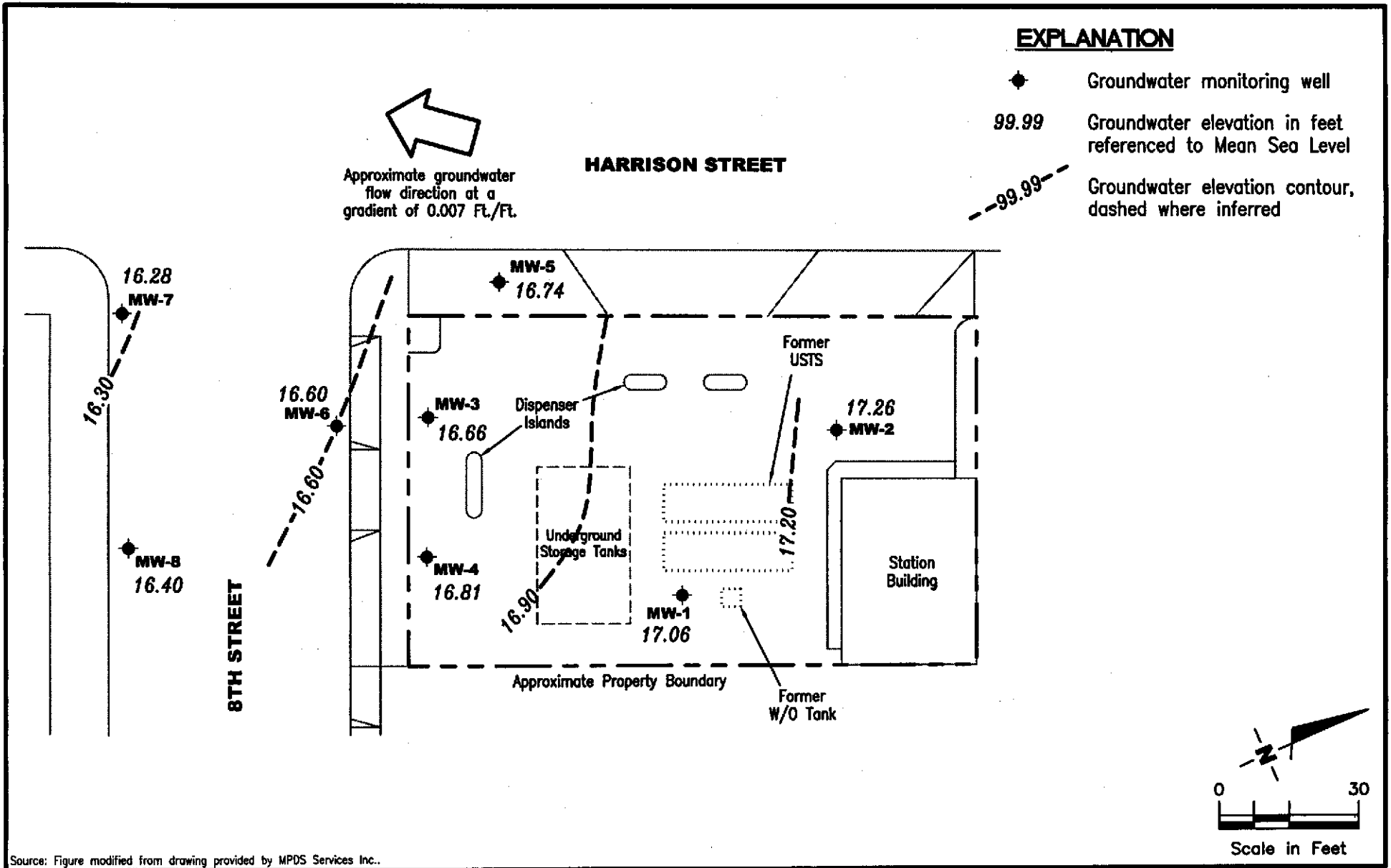
  
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P.E. No. C55734



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: Groundwater Analytical Results  
Table 4: Groundwater Analytical Results  
Table 5: Dissolved Oxygen Concentrations  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

0752.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 #0752  
 800 Harrison Street  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER  
 180066

REVIEWED BY

DATE  
 July 15, 2002

REVISED DATE

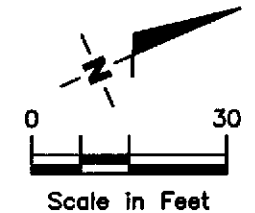
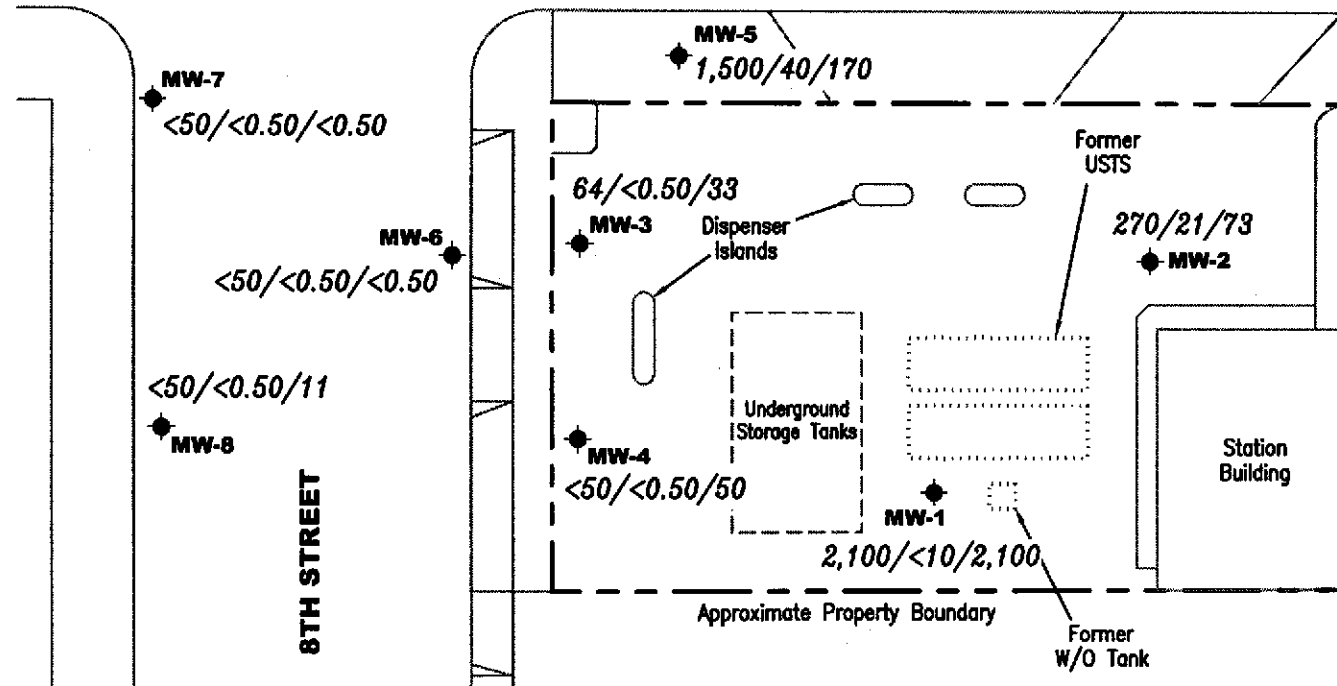
FILE NAME: P:\ENVIRO\TOSCO\0752\Q02-0752.DWG | Layout Tab: Pot3

### EXPLANATION

- ◆ Groundwater monitoring well
- A/B/C TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/ Benzene/MTBE concentrations in ppb

Note:  
All analyses by EPA Method 8260.

HARRISON STREET



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

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

**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

FIGURE  
**2**

PROJECT NUMBER <b>180066</b>	REVIEWED BY	DATE <b>July 15, 2002</b>	REVISED DATE
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**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-1	06/05/91	--	--	ND	47	ND	ND	ND	ND	--	7.8	2.9	1.3
	09/30/91	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	12/30/91	--	--	ND	ND	ND	ND	ND	ND	--	6.4	2.1	0.9
	04/02/92	--	--	94	ND	ND	ND	ND	ND	--	7.1	2.6	1.4
	06/30/92	--	--	120	ND	ND	ND	ND	ND	--	9.5	2.2	1.3
	09/15/92	--	--	ND	76	1.0	ND	ND	ND	--	12	2.2	1.3
34.94	12/21/92	21.17	13.77	ND	95	0.69	ND	ND	1.0	--	12	1.4	0.83
	04/28/93 <sup>1</sup>	--	--	470 <sup>2</sup>	920	3.1	2.3	1.2	9.7	--	12	0.89	0.85
	07/23/93	20.13	14.81	ND	ND	0.5	0.66	ND	ND	--	16	1.3	0.91
34.69	10/05/93	20.30	14.39	57 <sup>3</sup>	92 <sup>5</sup>	1.5	ND	ND	0.72	--	13	1.3	0.66
	01/03/94 <sup>6</sup>	20.52	14.17	ND	ND	ND	ND	ND	ND	--	18	1.4	0.93
	04/02/94	20.16	14.53	ND	ND	ND	ND	ND	ND	--	15	1.1	0.68
	07/05/94	19.27	15.42	--	250	4.8	13	1.2	7.3	--	--	--	--
	10/06/94	20.87	13.82	--	540	1.4	ND	0.66	11	--	--	--	--
	01/02/95	19.67	15.02	--	140	ND	ND	ND	ND	--	--	--	--
	04/03/95	17.61	17.08	--	580	3.6	0.75	ND	4.0	--	--	--	--
	07/14/95	18.58	16.11	--	260	2.1	ND	ND	1.2	--	--	--	--
	10/10/95	19.60	15.09	--	220	2.0	ND	25	5.6	29	--	--	--
	01/03/96	19.69	15.00	--	190	2.4	ND	0.71	1.2	--	--	--	--
	04/10/96	17.65	17.04	--	540	8.9	1.7	1.5	7.4	50	--	--	--
	07/09/96	18.52	16.17	--	490	3.0	1.4	1.3	2.5	150	--	--	--
	01/24/97	17.72	16.97	--	760	27	0.89	5.2	10	510	--	--	--
	07/23/97	19.42	15.27	--	ND	ND	ND	ND	ND	550	--	--	--
NP	01/26/98	17.46	17.23	--	1,800 <sup>8</sup>	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	4,800	--	--	--
NP	07/03/98	18.61	16.08	--	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	ND <sup>9</sup>	1,800	--	--	--
	01/14/99	18.92	15.77	--	83 <sup>10</sup>	ND	ND	ND	ND	230	--	--	--
	07/15/99	17.84	16.85	--	110	ND	ND	ND	1.0	290	--	--	--
	01/07/00	19.13	15.56	--	ND	ND	ND	ND	ND	260	--	--	--
	07/19/00	20.27	14.42	--	ND	ND	ND	ND	ND	648	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-1	01/02/01	20.04	14.65	--	ND	ND	ND	ND	ND	119	--	--	--
(cont)	05/23/01	18.27	16.42	--	84 <sup>12</sup>	ND	ND	ND	ND	760	--	--	--
	07/30/01	18.56	16.13	--	<50	<0.50	<0.50	<0.50	<0.50	350	--	--	--
	10/15/01	18.72	15.97	--	96 <sup>12</sup>	<0.50	<0.50	<0.50	<0.50	160	--	--	--
	01/14/02	16.78	17.91	--	450 <sup>15</sup>	<2.5	<2.5	<2.5	3.3	4,100	--	--	--
	04/15/02	17.35	17.34	--	<1,000	<10	<10	<10	<10	10,000	--	--	--
	07/15/02 <sup>17</sup>	17.63	17.06	--	2,100 <sup>18</sup>	<10	<10	<10	<20	2,100	--	--	--
<b>MW-2</b>	06/05/91	--	--	--	49	ND	ND	ND	ND	--	--	--	--
	09/30/91	--	--	--	130	18	0.53	14	9.6	--	--	--	--
	12/30/91	--	--	--	91	16	0.89	11	1.9	--	--	--	--
	04/02/92	--	--	--	88	12	0.32	6.3	7.2	--	--	--	--
	06/30/92	--	--	--	76	9.3	0.76	4.8	6.9	--	--	--	--
	09/15/92	--	--	--	1,300	91	5.7	80	110	--	--	--	--
34.97	12/21/92	20.85	14.12	--	960	97	3.2	74	96	--	--	--	--
	04/28/93	--	--	--	1,300	76	1.9	130	87	--	--	--	--
	07/23/93	19.81	15.16	--	66	1.8	ND	2.5	2.0	--	--	--	--
34.72	10/05/93	19.95	14.77	--	120	12	ND	2.1	12	--	--	--	--
	01/03/94	20.21	14.51	--	260	25	ND	5.5	26	--	--	--	--
	04/02/94	19.88	14.84	--	ND	0.65	ND	ND	0.99	--	--	--	--
	07/05/94	19.07	15.65	--	160	16	ND	0.73	10	--	--	--	--
	10/06/94	20.55	14.17	--	170	15	ND	1.4	11	--	--	--	--
	01/02/95	19.25	15.47	--	190	27	ND	0.95	11	--	--	--	--
	04/03/95	17.49	17.23	--	2,400	65	6.6	19	63	--	--	--	--
	07/14/95	18.30	16.42	--	750	270	ND	ND	13	--	--	--	--
	10/10/95	19.25	15.47	--	50	1.6	ND	ND	ND	200	--	--	--
	01/03/96	19.40	15.32	--	ND	ND	ND	ND	ND	--	--	--	--
	04/10/96	17.35	17.37	--	300	42	ND	2.4	9.0	620	--	--	--

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MW-2	07/09/96	18.22	16.50	--	760	230	ND	1.3	2.4	1,500	--	--	--
(cont)	01/24/97	17.59	17.13	--	2,900	400	350	190	720	1,300	--	--	--
	07/23/97	19.13	15.59	--	ND	ND	ND	ND	ND	65	--	--	--
NP	01/26/98	17.12	17.60	--	ND	ND	ND	ND	0.58	13	--	--	--
NP	07/03/98	18.20	16.52	--	140	26	ND	0.95	5.0	330	--	--	--
	01/14/99	18.56	16.16	--	ND	0.54	ND	ND	ND	350	--	--	--
	07/15/99	17.39	17.33	--	ND	0.88	ND	ND	ND	39	--	--	--
	01/07/00	18.78	15.94	--	ND	ND	ND	ND	ND	24	--	--	--
	07/19/00	19.68	15.04	--	ND	1.45	ND	ND	ND	117	--	--	--
	01/02/01	19.73	14.99	--	ND	ND	ND	ND	ND	11.4	--	--	--
	05/23/01	18.16	16.56	--	ND	ND	ND	ND	ND	33	--	--	--
	07/30/01	18.34	16.38	--	<50	<0.50	<0.50	<0.50	<0.50	67	--	--	--
	10/15/01	18.52	16.20	--	<50	<0.50	<0.50	<0.50	<0.50	31	--	--	--
	01/14/02	16.72	18.00	--	<50	<0.50	<0.50	<0.50	0.56	11	--	--	--
	04/15/02	17.26	17.46	--	<50	<0.50	<0.50	<0.50	<0.50	110	--	--	--
	07/15/02 <sup>17</sup>	17.46	17.26	--	270	21	<0.50	3.8	4.0	73	--	--	--
MW-3	06/05/91	--	--	--	5,800	1,200	40	140	97	--	--	--	--
	09/30/91	--	--	--	6,800	1,400	130	290	240	--	--	--	--
	12/30/91	--	--	--	7,200	2,100	690	410	550	--	--	--	--
	04/02/92	--	--	--	8,000	1,400	200	300	310	--	--	--	--
	06/30/92	--	--	--	8,900	1,900	210	430	550	--	--	--	--
	09/15/92	--	--	--	10,000	1,900	330	400	580	--	--	--	--
33.39	12/21/92	20.02	13.37	--	8,500	1,500	150	310	330	--	--	--	--
	04/28/93	--	--	--	2,600	220	7.6	41	27	--	--	--	--
	07/23/93	19.00	14.39	--	4,400	660	26	160	82	--	--	--	--
33.14	10/05/93	19.20	13.94	--	9,200	720	88	140	140	--	--	--	--
	01/03/94	19.40	13.74	--	4,900	830	100	170	150	--	--	--	--

**Table 1**  
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 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-3	04/02/94	19.01	14.13	--	6,000	800	30	140	110	--	--	--	--
(cont)	07/05/94	18.14	15.00	--	25,000 <sup>5</sup>	ND	ND	ND	ND	--	--	--	--
	10/06/94	19.73	13.41	--	49,000 <sup>4</sup>	1,300	200	280	300	--	--	--	--
	01/02/95	18.36	14.78	--	480	1.6	ND	1.4	ND	--	--	--	--
	04/03/95	16.38	16.76	--	8,100 <sup>5</sup>	65	ND	ND	ND	--	--	--	--
	07/14/95	17.49	15.65	--	ND	1,300	ND	ND	ND	--	--	--	--
	10/10/95	18.50	14.64	--	3,100	1,400	36	50	53	190,000	--	--	--
	01/03/96 <sup>7</sup>	18.54	14.60	--	ND	2,300	110	150	140	--	--	--	--
	04/10/96	16.40	16.74	--	940	38	33	39	47	69,000	--	--	--
	07/09/96	17.43	15.71	--	ND	2,000	ND	150	160	140,000	--	--	--
	01/24/97	16.57	16.57	--	540	8.0	ND	11	9.9	45	--	--	--
	07/23/97	18.38	14.76	--	7,400	1,900	180	140	340	45,000	--	--	--
NP	01/26/98	16.22	16.92	--	250	2.2	1.9	0.87	1.9	4.0	--	--	--
NP	07/03/98	17.46	15.68	--	230	1.8	2.5	1.5	3.4	6.3	--	--	--
	01/14/99	17.73	15.41	--	400 <sup>10</sup>	8.2	2.7	0.90	5.9	140	--	--	--
	07/15/99	16.58	16.56	--	290 <sup>10</sup>	3.3	3.6	1.7	2.5	13	--	--	--
	01/07/00	17.84	15.30	--	ND <sup>9</sup>	890	91	100	480	20,000	--	--	--
	07/19/00	18.92	14.22	--	354 <sup>12</sup>	3.87	2.61	0.646	ND	13.7	--	--	--
	01/02/01	19.07	14.07	--	464 <sup>12</sup>	ND	3.69	3.91	ND	21.1	--	--	--
	05/23/01	17.12	16.02	--	420 <sup>11</sup>	7.6	3.1	3.0	5.1	1,900	--	--	--
	07/30/01	17.38	15.76	--	290 <sup>12</sup>	4.6	4.1	<0.50	3.4	23	--	--	--
	10/15/01	17.61	15.53	--	400 <sup>12</sup>	<0.50	<0.50	<0.50	<0.50	13	--	--	--
	01/14/02	15.53	17.61	--	130 <sup>16</sup>	0.50	0.61	1.1	<0.50	9.9	--	--	--
	04/15/02	16.12	17.02	--	280 <sup>11</sup>	9.9	1.6	3.3	6.8	1,400	--	--	--
	07/15/02 <sup>17</sup>	16.48	16.66	--	64	<0.50	<0.50	<0.50	<1.0	33	--	--	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #0752  
800 Harrison Street  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-4	10/19/92	--	--	--	480	0.51	2.1	2.8	6.8	--	--	--	--
33.12	12/21/92	19.73	13.39	--	220 <sup>4</sup>	ND	ND	0.97	0.74	--	--	--	--
	04/28/93	--	--	--	ND	ND	ND	ND	ND	--	--	--	--
	07/23/93	18.72	14.40	--	85 <sup>4</sup>	ND	ND	ND	ND	--	--	--	--
32.71	10/05/93	18.74	13.97	--	130 <sup>5</sup>	ND	ND	ND	ND	--	--	--	--
	01/03/94	18.93	13.78	--	210	ND	ND	0.76	1.6	240	9.0	1.0	ND
	04/02/94	18.53	14.18	--	89	ND	ND	ND	ND	--	--	--	--
	07/05/94	17.67	15.04	--	190 <sup>5</sup>	ND	ND	ND	ND	--	--	--	--
	10/06/94	19.25	13.46	--	170	0.85	ND	ND	0.74	--	--	--	--
	01/02/95	17.75	14.96	--	ND	ND	ND	ND	ND	--	--	--	--
	04/03/95	15.87	16.84	--	98 <sup>5</sup>	ND	ND	ND	ND	--	--	--	--
	07/14/95	17.01	15.70	--	ND	ND	ND	ND	ND	--	--	--	--
	10/10/95	18.03	14.68	--	ND	ND	ND	ND	ND	120	--	--	--
	01/03/96 <sup>7</sup>	18.05	14.66	--	ND	ND	ND	ND	ND	--	--	--	--
	04/10/96	16.00	16.71	--	ND	ND	ND	ND	ND	240	--	--	--
	07/09/96	16.96	15.75	--	ND	ND	ND	ND	ND	480	--	--	--
	01/24/97	16.04	16.67	--	ND	ND	ND	ND	ND	270	--	--	--
	07/23/97	17.87	14.84	--	ND	ND	ND	ND	ND	460	--	--	--
NP	01/26/98	16.05	16.66	--	ND	ND	ND	ND	ND	17	--	--	--
NP	07/03/98	16.95	15.76	--	ND	ND	ND	ND	ND	3.8	--	--	--
	01/14/99	17.34	15.37	--	ND	ND	ND	ND	ND	4,600	--	--	--
	07/15/99	16.36	16.35	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/07/00	17.81	14.90	--	ND	ND	ND	ND	ND	450	--	--	--
	07/19/00	18.94	13.77	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/02/01	18.85	13.86	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	16.82	15.89	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	16.88	15.83	--	<50	<0.50	<0.50	<0.50	<0.50	4.9	--	--	--
	10/15/01	17.08	15.63	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-4	01/14/02	14.97	17.74	--	<50	<0.50	<0.50	<0.50	<0.50	30	--	--	--
(cont)	04/15/02	15.48	17.23	--	<50	<0.50	<0.50	<0.50	<0.50	180	--	--	--
	07/15/02 <sup>17</sup>	15.90	16.81	--	<50	<0.50	<0.50	<0.50	<1.0	50	--	--	--
MW-5	10/19/92	--	--	--	2,700	61	5.0	100	61	--	--	--	--
33.25	12/21/92	19.75	13.50	--	1,700	51	4.7	83	34	--	--	--	--
	04/28/93	--	--	--	6,700	200	190	250	430	--	--	--	--
	07/23/93	18.74	14.51	--	2,000	122	8.0	68	47	--	--	--	--
32.95	10/05/93	18.83	14.12	--	1,700	70	6.2	54	40	--	--	--	--
	01/03/94	19.05	13.90	--	1,500	44	ND	42	46	--	--	--	--
	04/02/94	18.68	14.27	--	1,800	46	5.1	38	35	--	--	--	--
	07/05/94	17.90	15.05	--	2,200	97	8.4	37	36	--	--	--	--
	10/06/94	19.37	13.58	--	1,600	79	5.7	28	22	--	--	--	--
	01/02/95	17.92	15.03	--	1,700	50	8.6	30	28	--	--	--	--
	04/03/95	16.15	16.80	--	5,400 <sup>5</sup>	190	240	170	420	--	--	--	--
	07/14/95	17.18	15.77	--	3,800	210	100	130	190	--	--	--	--
	10/10/95	18.15	14.80	--	1,300	92	14	15	39	1,100	--	--	--
	01/03/96 <sup>7</sup>	18.20	14.75	--	630	53	4.4	8.3	13	--	--	--	--
	04/10/96	16.05	16.90	--	500	25	18	7.0	20	640	--	--	--
	07/09/96	17.11	15.84	--	1,000	44	20	10	34	150	--	--	--
	01/24/97	16.36	16.59	--	4,000	190	400	160	430	600	--	--	--
	07/23/97	18.08	14.87	--	1,700	200	23	18	45	2,500	--	--	--
NP	01/26/98	16.27	16.68	--	ND	ND	ND	ND	ND	ND	--	--	--
NP	07/03/98	17.27	15.68	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	17.55	15.40	--	330	61	4.1	2.2	2.9	560	--	--	--
	07/15/99	16.41	16.54	--	1,100	170	ND <sup>9</sup>	ND <sup>9</sup>	27	660	--	--	--
	01/07/00	17.85	15.10	--	1,000 <sup>11</sup>	180	6.3	ND <sup>9</sup>	14	430	--	--	--
	07/19/00	18.87	14.08	--	2,980 <sup>11</sup>	289	57.3	65.3	43.4	976	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-5	10/03/00	18.47	14.48	--	--	--	--	--	--	--/553 <sup>13</sup>	--	--	--
(cont)	01/02/01	19.01	13.94	--	1,150 <sup>11</sup>	87.2	17.8	7.97	9.32	368	--	--	--
	05/23/01	17.38	15.57	--	840 <sup>11</sup>	42	10	13	7.1	130	--	--	--
	07/30/01	17.12	15.83	--	1,900 <sup>12</sup>	82	24	6.9	13	370	--	--	--
	10/15/01	17.33	15.62	--	26,000 <sup>14</sup>	390	230	58	1,300	<500	--	--	--
	01/14/02	15.33	17.62	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	15.89	17.06	--	310 <sup>11</sup>	20	6.7	11	7.7	77	--	--	--
	<b>07/15/02<sup>17</sup></b>	<b>16.21</b>	<b>16.74</b>	--	<b>1,500</b>	<b>40</b>	<b>22</b>	<b>60</b>	<b>28</b>	<b>170</b>	--	--	--
<b>MW-6</b>	10/19/92	--	--	--	3,900	420	12	60	28	--	--	--	--
32.42	12/21/92	19.17	13.25	--	2,300	370	11	39	15	--	--	--	--
	04/28/93	--	--	--	1,200	54	1.5	11	5.3	--	--	--	--
	07/23/93	18.17	14.25	--	580	19	0.99	3.4	2.7	--	--	--	--
32.16	10/05/93	18.35	13.81	--	1,400	34	ND	5.3	7.3	--	--	--	--
	01/03/94	18.54	13.62	--	1,400	57	ND	8.5	11	--	--	--	--
	04/02/94	18.15	14.01	--	5,300 <sup>4</sup>	ND	ND	ND	ND	--	--	--	--
	07/05/94	17.25	14.91	--	ND	ND	ND	ND	ND	--	--	--	--
	10/06/94	18.85	13.31	--	11,000 <sup>5</sup>	ND	ND	ND	ND	--	--	--	--
	01/02/95	17.51	14.65	--	550	18	0.92	2.0	1.8	--	--	--	--
	04/03/95	15.48	16.68	--	6,600 <sup>5</sup>	ND	ND	ND	ND	--	--	--	--
	07/14/95	16.63	15.53	--	ND	ND	ND	ND	ND	--	--	--	--
	10/10/95	17.68	14.48	--	ND	81	ND	ND	ND	75,000	--	--	--
	01/03/96 <sup>7</sup>	17.66	14.50	--	70	9.9	0.58	ND	0.81	--	--	--	--
	04/10/96	15.56	16.60	--	300	25	4.7	0.94	2.7	53,000	--	--	--
	07/09/96	16.59	15.57	--	1,800	410	ND	12	ND	76,000	--	--	--
	01/24/97	15.69	16.47	--	ND	0.80	ND	ND	ND	390	--	--	--
	07/23/97	17.53	14.63	--	5,700	1,100	240	240	700	16,000	--	--	--
NP	01/26/98	15.44	16.72	--	ND	ND	ND	ND	ND	ND	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (mst)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-6	NP	07/03/98	16.58	15.58	--	ND	ND	ND	ND	ND	--	--	--
(cont)		01/14/99	17.02	15.14	--	ND	ND	ND	ND	14	--	--	--
		07/15/99	15.95	16.21	--	ND	ND	ND	ND	2.8	--	--	--
		01/07/00	16.96	15.20	--	78 <sup>11</sup>	24	ND	0.66	17	280	--	--
		07/19/00	18.04	14.12	--	ND	ND	1.32	ND	0.974	ND	--	--
		01/02/01	18.10	14.06	--	ND	ND	ND	ND	ND	ND	--	--
		05/23/01	16.42	15.74	--	ND	ND	ND	ND	ND	ND	--	--
		07/30/01	16.49	15.67	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
		10/15/01	16.67	15.49	--	<50	<0.50	0.62	<0.50	<0.50	<5.0	--	--
		01/14/02	14.60	17.56	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
		04/15/02	15.07	17.09	--	<50	<0.50	<0.50	<0.50	0.73	<5.0	--	--
		07/15/02 <sup>17</sup>	15.56	16.60	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--
<b>MW-7</b>													
32.49		04/28/93	--	--	--	110	2.8	1.3	1.4	1.7	--	--	--
		07/23/93	18.60	13.89	--	790	23	3.3	28	5.4	--	--	--
32.20		10/05/93	18.76	13.44	--	360	10	1.2	0.91	0.99	--	--	--
		01/03/94	18.91	13.29	--	ND	0.93	ND	0.75	1.9	--	--	--
		04/02/94	18.50	13.70	--	360	2.0	ND	ND	0.8	--	--	--
		07/05/94	17.52	14.68	--	ND	ND	ND	ND	ND	--	--	--
		10/06/94	19.25	12.95	--	340	5.6	0.85	ND	1.2	--	--	--
		01/02/95	17.67	14.53	--	ND	ND	ND	ND	ND	--	--	--
		04/03/95	15.81	16.39	--	570	24	ND	3.4	5.8	--	--	--
		07/14/95	17.05	15.15	--	ND	14	ND	ND	ND	--	--	--
		10/10/95	18.08	14.12	--	740	170	ND	ND	ND	13,000	--	--
		01/03/96 <sup>7</sup>	18.02	14.18	--	360	16	1.3	2.7	1.4	--	--	--
		04/10/96	15.81	16.39	--	120	4.1	1.5	ND	0.88	3,200	--	--
		07/09/96	16.99	15.21	--	ND	ND	ND	ND	ND	3,400	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (mst)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-7	01/24/97	16.08	16.12	--	ND	16	ND	ND	ND	6,600	--	--	--
(cont)	07/23/97	17.99	14.21	--	ND	1.5	ND	ND	0.62	10,000	--	--	--
NP	01/26/98	15.56	16.64	--	ND	ND	ND	ND	0.56	ND	--	--	--
NP	07/03/98	17.04	15.16	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	INACCESSIBLE (PARKED CAR)		--	--	--	--	--	--	--	--	--	--
	07/15/99	15.72	16.48	--	ND	ND	ND	ND	ND	290	--	--	--
	01/07/00	16.80	15.40	--	ND	7.7	ND	ND	4.4	98	--	--	--
	07/19/00	17.88	14.32	--	ND	ND	1.27	ND	0.979	ND	--	--	--
	01/02/01	17.97	14.23	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	16.81	15.39	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	16.79	15.41	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	10/15/01	16.98	15.22	--	<50	<0.50	0.58	<0.50	<0.50	<5.0	--	--	--
	01/14/02	14.85	17.35	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	15.29	16.91	--	<50	<0.50	<0.50	<0.50	0.70	<5.0	--	--	--
	07/15/02 <sup>17</sup>	15.92	16.28	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--
<b>MW-8</b>													
32.33	04/28/93	--	--	--	450	18	1.8	1.8	1.4	--	--	--	--
	07/23/93	18.45	13.88	--	260	5.1	ND	0.6	ND	--	--	--	--
32.00	10/05/93	18.57	13.43	--	120 <sup>5</sup>	1.7	ND	ND	ND	--	--	--	--
	01/03/94 <sup>1</sup>	18.73	13.27	--	ND	ND	ND	ND	ND	51	1.5	1.2	ND
	04/02/94	18.30	13.70	--	150	1.2	ND	ND	ND	--	--	--	--
	07/05/94	17.41	14.59	--	730	17	ND	1.6	ND	--	--	--	--
	10/06/94	18.98	13.02	--	140 <sup>5</sup>	ND	ND	ND	ND	--	--	--	--
	01/02/95	17.58	14.42	--	440	18	0.72	2.0	1.8	--	--	--	--
	04/03/95	15.54	16.46	--	960	11	ND	ND	ND	--	--	--	--
	07/14/95	16.81	15.19	--	280	4.2	2.6	1.1	3.3	--	--	--	--
	10/10/95	17.85	14.15	--	110	1.3	0.62	0.67	ND	170	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-8	01/03/96 <sup>7</sup>	17.82	14.18	--	63	ND	0.51	ND	1.8	--	--	--	--
(cont)	04/10/96	15.70	16.30	--	ND	1.1	0.61	ND	ND	60	--	--	--
	07/09/96	16.78	15.22	--	72	1.0	ND	ND	ND	140	--	--	--
	01/24/97	15.79	16.21	--	ND	ND	ND	ND	ND	76	--	--	--
	07/23/97	17.69	14.31	--	ND	ND	ND	ND	ND	270	--	--	--
NP	01/26/98	15.50	16.50	--	ND	ND	ND	ND	0.76	2.9	--	--	--
NP	07/03/98	16.80	15.20	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	17.13	14.87	--	ND	ND	ND	ND	ND	11	--	--	--
	07/15/99	15.85	16.15	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/07/00	16.94	15.06	--	ND	ND	ND	ND	ND	11	--	--	--
	07/19/00	18.06	13.94	--	ND	ND	2.99	0.521	ND	ND	--	--	--
	01/02/01	18.12	13.88	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	16.96	15.04	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	16.52	15.48	--	<50	<0.50	<0.50	<0.50	<0.50	2.7	--	--	--
	10/15/01	16.72	15.28	--	<50	<0.50	0.65	<0.50	<0.50	<5.0	--	--	--
	01/14/02	14.53	17.47	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	14.96	17.04	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--
	07/15/02 <sup>17</sup>	15.60	16.40	--	<50	<0.50	<0.50	<0.50	<1.0	11	--	--	--
<b>Trip Blank</b>													
TB-LB	01/26/98	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/03/98	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/15/99	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/07/00	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/19/00	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/02/01	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
TB-LB	07/30/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
(cont)	10/15/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--
	01/14/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--
QA	07/15/02 <sup>17</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to January 26, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

PCE = Tetrachloroethene

TCE = Trichloroethene

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

NP = No Purge

QA = Quality Assurance

\* TOC elevations are relative to msl, per the City of Oakland benchmark disk stamped "25/A" at the northeast corner of 7th and Harrison (Elevation = 28.81 feet, msl). Prior to October 5, 1993, the DTW measurements were taken from the top of well covers.

\*\* All EPA Method 8010 constituents were ND, except as indicated below.

1 1,2-Dichloroethane (1,2-DCA) was detected in MW-8 at a concentration of 4.0 ppb on 01/03/94, and 1.1 ppb in MW-1 on 04/28/93.

2 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.

3 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

4 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

5 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.

6 A fuel fingerprint analysis was conducted on this sample. Laboratory report indicates total extractable petroleum hydrocarbons in this sample were not detected in high enough concentrations to compare with known standards and approximate their makeup.

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 gasoline and unidentified hydrocarbons C6-C8.

9 Detection limit raised. Refer to analytical reports.

10 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.

11 Laboratory report indicates gasoline C6-C12.

12 Laboratory report indicates unidentified hydrocarbons C6-C12.

13 MTBE by EPA Method 8260.

14 Laboratory report indicates weathered gasoline C6-C12.

15 Laboratory report indicates gasoline C6-C10.

16 Laboratory report indicates unidentified hydrocarbons C6-C10.

17 TPH-G, BTEX and MTBE by EPA Method 8260.

18 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.



**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	07/15/02	<25	<5.0	2,100	<1.0	<0.5	<0.5	<0.5	<0.5
MW-5	10/03/00	--	ND <sup>1</sup>	553	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>

**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 = 1,2-Dibromoethane  
 (ppb) = Parts per billion  
 ND = Not Detected

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

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

**Table 3**  
**Groundwater Analytical Results**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID	DATE	TOG (ppm)	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
MW-1	06/05/91	ND	ND	0.0083	0.011	0.063	0.023
	09/30/91	ND	ND	0.019	ND	ND	0.11
	12/30/91	ND	ND	0.0078	0.0057	ND	0.046
	04/02/92	ND	ND	0.015	0.016	ND	0.02
	06/30/92	ND	ND	0.079	0.009	0.1	0.087

**EXPLANATIONS:**

Groundwater laboratory analytical results were compiled from reports prepared by MPDS Services, Inc.

TOG = Total Oil and Grease

(ppm) = Parts per million

ND = Not Detected

**Table 4**  
**Groundwater Analytical Results**  
Tosco (Unocal) Service Station #0752  
800 Harrison Street  
Oakland, California

WELL ID	DATE	BOD (ppm)	Bicarbonate Alkalinity (ppm)	Calcium (ppm)	Iron (ppm)	Manganese (ppm)	Nitrate (ppm)	Sulfate (ppm)	Heterotrophic Plate Count (CFU/mL)
MW-1	04/10/96	--	160	21	15	2.6	--	--	--
MW-2	01/03/96	2.2	130	27	77	3.0	0.22	97	>5,700
	04/10/96	--	460	58	60	7.0	--	--	--
MW-3	01/03/96	4.3	430	43	61	5.4	0.23	16	350
	04/10/96	--	360	40	60	3.7	--	--	--
MW-4	01/03/96	ND	120	20	61	3.3	10	44	1,000
	04/10/96	--	160	25	43	2.0	--	--	--
MW-5	01/03/96	3.4	240	31	80	3.3	ND	17	>5,700
	04/10/96	--	240	22	18	2.4	--	--	--
MW-6	04/10/96	--	240	35	61	3.7	--	--	--
MW-7	04/10/96	--	210	44	120	4.8	--	--	--
MW-8	01/03/96	ND	310	37	62	3.3	0.57	20	>5,700
	04/10/96	--	380	37	63	3.6	--	--	--

**Table 4**  
**Groundwater Analytical Results**  
Tosco (Unocal) Service Station #0752  
880 Harrison Street  
Oakland, California

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**EXPLANATIONS:**

Groundwater laboratory analytical results were compiled from reports prepared by MPDS Services, Inc.

BOD = Biochemical Oxygen Demand

(ppm) = Parts per million

(CFU/mL) = Colony Forming Units per milliliter

-- = Not Analyzed

ND = Not Detected

**Table 5**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-1	04/10/96	--	3.04
	07/09/96	--	3.13
	01/24/97	--	2.56
	07/23/97	2.26	2.81
	01/26/98	3.97	--
	07/03/98	3.58	--
MW-2	01/03/96		1.80
	04/10/96	--	5.88
	07/09/96	--	0.71
	01/24/97	--	2.37
	07/23/97	1.40	0.97
	01/26/98	4.12	--
	07/03/98	3.99	--
MW-3	01/03/96		1.50
	04/10/96	--	4.63
	07/09/96	--	1.04
	01/24/97	--	1.46
	07/23/97	3.84	1.37
	01/26/98	1.84	--
	07/03/98	2.16	--
MW-4	01/03/96		1.20
	04/10/96	--	5.23
	07/09/96	--	4.91
	01/24/97	--	3.04
	07/23/97	9.28	3.68
	01/26/98	3.36	--
	07/03/98	4.07	--
MW-5	01/03/96		2.80
	04/10/96	--	3.73
	07/09/96	--	3.25
	01/24/97	--	1.47
	07/23/97	7.96	4.56
	01/26/98	5.30	--
	07/03/98	4.73	--

**Table 5**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #0752  
 800 Harrison Street  
 Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-6	04/10/96		4.50
	07/09/96	--	3.62
	01/24/97	--	6.21
	07/23/97	10.90	3.31
	01/26/98	2.55	--
	07/03/98	3.11	--
MW-7	04/10/96	--	5.10
	07/09/96	--	2.34
	01/24/97	--	1.91
	07/23/97	3.25	2.83
	01/26/98	3.44	--
	07/03/98	3.83	--
MW-8	01/03/96	--	1.30
	04/10/96	--	4.80
	07/09/96	--	1.32
	01/24/97	--	2.09
	07/23/97	4.08	3.27
	01/26/98	4.71	--
	07/03/98	5.16	--

**EXPLANATIONS:**

Dissolved oxygen concentrations prior to January 26, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter

-- = Not Measured

## 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 #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Soe

Well ID: MW-1 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 33.42 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 17.63 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

15.79 xVF 0.17 = 2.68 x3 (case volume) = Estimated Purge Volume: 8.5 gal.

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

Start Time (purge): 11:18 Weather Conditions: Foggy  
 Sample Time/Date: 11:43 7-15-02 Water Color: clear Odor: yes  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>100</sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>11:30</u>	<u>2.5</u>	<u>6.75</u>	<u>4.21</u>	<u>72.9</u>		
<u>11:32</u>	<u>5.5</u>	<u>6.72</u>	<u>3.78</u>	<u>73.0</u>		
<u>11:34</u>	<u>8.5</u>	<u>6.79</u>	<u>3.86</u>	<u>72.6</u>		

### LABORATORY INFORMATION

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

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

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





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Joe

Well ID: MW-2 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 30.30 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 17.46 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

12.84 xVF 0.17 = 2.18 x3 (case volume) = Estimated Purge Volume: 6.5 gal.

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

Start Time (purge): 0946 Weather Conditions: Foggy  
 Sample Time/Date: 1007 17-15-02 Water Color: clear Odor: mild  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity $\times 10^3$ ( $\mu$ mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0955</u>	<u>2</u>	<u>7.71</u>	<u>6.96</u>	<u>74.1</u>		
<u>0957</u>	<u>4</u>	<u>7.56</u>	<u>6.71</u>	<u>74.0</u>		
<u>0959</u>	<u>6.5</u>	<u>7.44</u>	<u>6.68</u>	<u>73.6</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G, BTEX, MTBE all by 8260</u>

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Joe

Well ID: MW-3 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 30.45 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 16.48 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  
13.97 xVF 0.17 = 2.37 x3 (case volume) = Estimated Purge Volume: 7.5 gal.

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

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

Start Time (purge): 1050 Weather Conditions: Foggy  
 Sample Time/Date: 1110 7-15-02 Water Color: clear Odor: yes  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>x100</sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1057</u>	<u>2.5</u>	<u>7.06</u>	<u>2.94</u>	<u>72.2</u>		
<u>1059</u>	<u>5</u>	<u>7.02</u>	<u>3.05</u>	<u>72.3</u>		
<u>1101</u>	<u>7.5</u>	<u>7.07</u>	<u>3.10</u>	<u>72.5</u>		

### LABORATORY INFORMATION

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

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Joe

Well ID: MW-4 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 32.36 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 15.90 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

16.46 xVF 0.17 = 2.80 x3 (case volume) = Estimated Purge Volume: 8.5 gal.

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

Start Time (purge): 0915 Weather Conditions: Foggy  
 Sample Time/Date: 0938 17-15-02 Water Color: clear Odor: none  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm) x 10 <sup>3</sup>	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0924</u>	<u>2.5</u>	<u>7.18</u>	<u>7.92</u>	<u>72.5</u>		
<u>0926</u>	<u>5.5</u>	<u>7.26</u>	<u>8.20</u>	<u>73.0</u>		
<u>0929</u>	<u>8.5</u>	<u>7.33</u>	<u>8.14</u>	<u>73.0</u>		

### LABORATORY INFORMATION

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

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Joe

Well ID: MW-5 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 31.65 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 16.21 ft.  
 Volume Factor (VF) 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.36  
 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80  
15.44 xVF 0.17 = 2.62 x3 (case volume) = Estimated Purge Volume: 8 gal.

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

Start Time (purge): 1015 Weather Conditions: Foggy  
 Sample Time/Date: 1042 7-15-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>x100</sup>	Temperature (°C)	D.O. (mg/L)	ORP (mV)
<u>10:28</u>	<u>2.5</u>	<u>7.07</u>	<u>3.55</u>	<u>72.2</u>		
<u>10:31</u>	<u>5</u>	<u>6.93</u>	<u>4.10</u>	<u>73.3</u>		
<u>10:33</u>	<u>8</u>	<u>6.97</u>	<u>4.15</u>	<u>73.5</u>		

### LABORATORY INFORMATION

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

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Joe

Well ID: MW-6 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 30.85 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 15.56 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

15.29 xVF 0.17 = 2.60 x3 (case volume) = Estimated Purge Volume: 8 gal.

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

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

Start Time (purge): 0715 Weather Conditions: Foggy  
 Sample Time/Date: 0745 7-15-02 Water Color: clear Odor: none  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity $\times 10^2$ ( $\mu$ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0730</u>	<u>2.5</u>	<u>7.42</u>	<u>10.46</u>	<u>73.3</u>	_____	_____
<u>0733</u>	<u>✓</u>	<u>7.57</u>	<u>11.27</u>	<u>73.0</u>	_____	_____
<u>0735</u>	<u>8</u>	<u>7.59</u>	<u>11.22</u>	<u>73.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

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

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Joe

Well ID: MW-7 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 31.43 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 15.92 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

 $15.51 \times VF \ 0.17 = 2.64 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 8 \text{ gal.}$

**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): 0800 Weather Conditions: Foggy  
 Sample Time/Date: 0830 7-15-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity $\times 10^3$ ( $\mu$ mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0808</u>	<u>2.5</u>	<u>7.80</u>	<u>9.13</u>	<u>71.9</u>		
<u>0810</u>	<u>5.5</u>	<u>7.42</u>	<u>8.67</u>	<u>72.2</u>		
<u>0813</u>	<u>8</u>	<u>7.42</u>	<u>8.62</u>	<u>72.5</u>		

### LABORATORY INFORMATION

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

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066  
 Site Address: 800 Harrison Street Event Date: 7-15-02  
 City: Oakland, CA Sampler: Joe

Well ID: MW-8 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 27.84 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 15.60 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

12.24 xVF 0.17 = 2.08 x3 (case volume) = Estimated Purge Volume: 6.5 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): 0838 Weather Conditions: Foggy  
 Sample Time/Date: 0904 7-15-02 Water Color: clear Odor: mild  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity $\times 10^3$ ( $\mu$ mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0846</u>	<u>2</u>	<u>7.10</u>	<u>4.97</u>	<u>73.6</u>	_____	_____
<u>0848</u>	<u>2</u>	<u>7.18</u>	<u>5.15</u>	<u>74.0</u>	_____	_____
<u>0850</u>	<u>6.5</u>	<u>7.24</u>	<u>5.18</u>	<u>73.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>2</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G, BTEX, MTBE all by 8260</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

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

2002-07-0337

07554  
Gettler-Ryan Inc., Chain-of-Custody

JUL 29 02 06:18P

st10n site

9256003002

P.2

Tosco Corp./  
Phillips 66 Co.  
2000 Crow Canyon Place  
Suite 400  
San Ramon, CA 94583

Facility Number #0752  
Facility Address 800 HARRISON STREET, OAKLAND, CA  
Global ID T0600101486 Project 180066.80  
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 JOE ASEMIAN

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/Silica gel 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	INOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	10A	W	HCC	7-15-02					✓									Run 8 Oxy's by 8260 on highest 8260 MTBE hit.
MW-1	30A			" 1143					✓									5.1c
MW-2				" 1007					✓									
MW-3				" 1110					✓									
MW-4				" 0938					✓									
MW-5				" 1042					✓									
MW-6				" 0745					✓									
MW-7				" 0830					✓									
MW-8				" 0904					✓									

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

Released By (Signature) <i>[Signature]</i>	Organization	Date/Time (ISO) 7-17-02	Received By (Signature) <i>[Signature]</i>	Organization	Date/Time	Load <input checked="" type="checkbox"/> Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days <input checked="" type="checkbox"/> As Contracted
Released By (Signature) <i>[Signature]</i>	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Load Y/N	
Released By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>[Signature]</i>	Organization	Date/Time (ISO) 7-17-02	Load <input checked="" type="checkbox"/> Y/N	



Submission#: 2002-07-0337

July 29, 2002

SEVERN

TRENT

LABORATORY

**Gettler Ryan**  
6747 Sierra Court Suite J  
Dublin, CA 94568

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566

Attn.: Deanna Harding  
Project#: 180066.80  
Project: Tosco # 0752  
Site: 800 Harrison Street  
Oakland, CA

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

CA DHS ELAP#:2496

RECEIVED

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

Dear Ms. Harding,

Attached is our report for your samples received on 07/17/2002 15:40

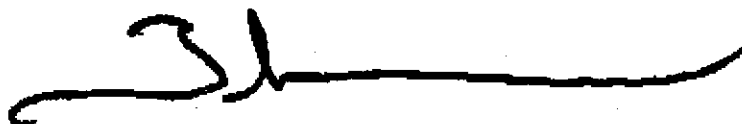
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/31/2002 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 #: 2002-07-0337

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: 180066.80

Tosco # 0752

Received: 07/17/2002 15:40

Site: 800 Harrison Street  
Oakland, CA

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CA DHS ELAP# 2496

### Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	07/15/2002	Water	1
MW-1	07/15/2002 11:43	Water	2
MW-2	07/15/2002 10:07	Water	3
MW-3	07/15/2002 11:10	Water	4
MW-4	07/15/2002 09:38	Water	5
MW-5	07/15/2002 10:42	Water	6
MW-6	07/15/2002 07:45	Water	7
MW-7	07/15/2002 08:30	Water	8
MW-8	07/15/2002 09:04	Water	9

Submission #: 2002-07-0337

Gas/BTEXFuel Oxygenates by 8260B

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: QA	Lab ID: 2002-07-0337 - 1
Sampled: 07/15/2002	Extracted: 7/24/2002 12:08
Matrix: Water	QC Batch#: 2002/07/24-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/24/2002 12:08	
Benzene	ND	0.50	ug/L	1.00	07/24/2002 12:08	
Toluene	ND	0.50	ug/L	1.00	07/24/2002 12:08	
Ethylbenzene	ND	0.50	ug/L	1.00	07/24/2002 12:08	
Total xylenes	ND	1.0	ug/L	1.00	07/24/2002 12:08	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/24/2002 12:08	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	92.2	76-114	%	1.00	07/24/2002 12:08	
Toluene-d8	104.3	88-110	%	1.00	07/24/2002 12:08	

Submission #: 2002-07-0337

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2002-07-0337 - 2
Sampled: 07/15/2002 11:43	Extracted: 7/25/2002 16:09
Matrix: Water	QC Batch#: 2002/07/25-02.62
Analysis Flag: o ( See Legent and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2100	1000	ug/L	20.00	07/25/2002 16:09	g
Benzene	ND	10	ug/L	20.00	07/25/2002 16:09	
Toluene	ND	10	ug/L	20.00	07/25/2002 16:09	
Ethylbenzene	ND	10	ug/L	20.00	07/25/2002 16:09	
Total xylenes	ND	20	ug/L	20.00	07/25/2002 16:09	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	20.00	07/25/2002 16:09	
Methyl tert-butyl ether (MTBE)	2100	10	ug/L	20.00	07/25/2002 16:09	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	20.00	07/25/2002 16:09	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	20.00	07/25/2002 16:09	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	20.00	07/25/2002 16:09	
1,2-DCA	ND	0.5	ug/L	20.00	07/25/2002 16:09	
EDB	ND	0.5	ug/L	20.00	07/25/2002 16:09	
Ethanol	ND	25	ug/L	20.00	07/25/2002 16:09	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.0	76-114	%	20.00	07/25/2002 16:09	
Toluene-d8	99.5	88-110	%	20.00	07/25/2002 16:09	

Submission #: 2002-07-0337

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2002-07-0337 - 3
Sampled: 07/15/2002 10:07	Extracted: 7/25/2002 16:31
Matrix: Water	QC Batch#: 2002/07/25-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	270	50	ug/L	1.00	07/25/2002 16:31	
Benzene	21	0.50	ug/L	1.00	07/25/2002 16:31	
Toluene	ND	0.50	ug/L	1.00	07/25/2002 16:31	
Ethylbenzene	3.8	0.50	ug/L	1.00	07/25/2002 16:31	
Total xylenes	4.0	1.0	ug/L	1.00	07/25/2002 16:31	
Methyl tert-butyl ether (MTBE)	73	0.50	ug/L	1.00	07/25/2002 16:31	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	105.5	76-114	%	1.00	07/25/2002 16:31	
Toluene-d8	103.1	88-110	%	1.00	07/25/2002 16:31	

Submission #: 2002-07-0337

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Gas/BTEXFuel Oxygenates by 8260B

TRENT

LABORATORY

Gettler Ryan

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Project: 180066.80  
Tosco # 0752

Received: 07/17/2002 15:40

Site: 800 Harrison Street  
Oakland, CA

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2002-07-0337 - 4
Sampled:	07/15/2002 11:10	Extracted:	7/25/2002 16:54
Matrix:	Water	QC Batch#:	2002/07/25-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	64	50	ug/L	1.00	07/25/2002 16:54	
Benzene	ND	0.50	ug/L	1.00	07/25/2002 16:54	
Toluene	ND	0.50	ug/L	1.00	07/25/2002 16:54	
Ethylbenzene	ND	0.50	ug/L	1.00	07/25/2002 16:54	
Total xylenes	ND	1.0	ug/L	1.00	07/25/2002 16:54	
Methyl tert-butyl ether (MTBE)	33	0.50	ug/L	1.00	07/25/2002 16:54	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	96.2	76-114	%	1.00	07/25/2002 16:54	
Toluene-d8	99.2	88-110	%	1.00	07/25/2002 16:54	

Gas/BTEXFuel Oxygenates by 8260B

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Project: 180066.80  
Tosco # 0752

Received: 07/17/2002 15:40

Site: 800 Harrison Street  
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CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-4	Lab ID: 2002-07-0337 - 5
Sampled: 07/15/2002 09:38	Extracted: 7/25/2002 17:16
Matrix: Water	QC Batch#: 2002/07/25-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/25/2002 17:16	
Benzene	ND	0.50	ug/L	1.00	07/25/2002 17:16	
Toluene	ND	0.50	ug/L	1.00	07/25/2002 17:16	
Ethylbenzene	ND	0.50	ug/L	1.00	07/25/2002 17:16	
Total xylenes	ND	1.0	ug/L	1.00	07/25/2002 17:16	
Methyl tert-butyl ether (MTBE)	50	0.50	ug/L	1.00	07/25/2002 17:16	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	92.7	76-114	%	1.00	07/25/2002 17:16	
Toluene-d8	104.0	88-110	%	1.00	07/25/2002 17:16	

Submission #: 2002-07-0337

Gas/BTEXFuel Oxygenates by 8260B

Gettler Ryan

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Project: 180066.80  
Tosco # 0752

Received: 07/17/2002 15:40

Site: 800 Harrison Street  
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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-5	Lab ID: 2002-07-0337 - 6
Sampled: 07/15/2002 10:42	Extracted: 7/25/2002 17:38
Matrix: Water	QC Batch#: 2002/07/25-02.62
Analysis Flag: o ( See Legent and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1500	100	ug/L	2.00	07/25/2002 17:38	
Benzene	40	1.0	ug/L	2.00	07/25/2002 17:38	
Toluene	22	1.0	ug/L	2.00	07/25/2002 17:38	
Ethylbenzene	60	1.0	ug/L	2.00	07/25/2002 17:38	
Total xylenes	28	2.0	ug/L	2.00	07/25/2002 17:38	
Methyl tert-butyl ether (MTBE)	170	1.0	ug/L	2.00	07/25/2002 17:38	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	103.0	76-114	%	2.00	07/25/2002 17:38	
Toluene-d8	99.3	88-110	%	2.00	07/25/2002 17:38	



## Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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

Project: 180066.80  
Tosco # 0752

Received: 07/17/2002 15:40

Site: 800 Harrison Street  
Oakland, CA

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CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-6	Lab ID: 2002-07-0337 - 7
Sampled: 07/15/2002 07:45	Extracted: 7/24/2002 16:56
Matrix: Water	QC Batch#: 2002/07/24-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/24/2002 16:56	
Benzene	ND	0.50	ug/L	1.00	07/24/2002 16:56	
Toluene	ND	0.50	ug/L	1.00	07/24/2002 16:56	
Ethylbenzene	ND	0.50	ug/L	1.00	07/24/2002 16:56	
Total xylenes	ND	1.0	ug/L	1.00	07/24/2002 16:56	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/24/2002 16:56	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	93.6	76-114	%	1.00	07/24/2002 16:56	
Toluene-d8	101.3	88-110	%	1.00	07/24/2002 16:56	

Submission #: 2002-07-0337

Gas/BTEXFuel Oxygenates by 8260B

Gettler Ryan

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Project: 180066.80  
Tosco # 0752

Received: 07/17/2002 15:40

Site: 800 Harrison Street  
Oakland, CA

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-7	Lab ID:	2002-07-0337 - 8
Sampled:	07/15/2002 08:30	Extracted:	7/24/2002 17:19
Matrix:	Water	QC Batch#:	2002/07/24-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/24/2002 17:19	
Benzene	ND	0.50	ug/L	1.00	07/24/2002 17:19	
Toluene	ND	0.50	ug/L	1.00	07/24/2002 17:19	
Ethylbenzene	ND	0.50	ug/L	1.00	07/24/2002 17:19	
Total xylenes	ND	1.0	ug/L	1.00	07/24/2002 17:19	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/24/2002 17:19	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	97.1	76-114	%	1.00	07/24/2002 17:19	
Toluene-d8	101.3	88-110	%	1.00	07/24/2002 17:19	

Submission #: 2002-07-0337

Gas/BTEXFuel Oxygenates by 8260B

Gettler Ryan

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Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-8	Lab ID: 2002-07-0337 - 9
Sampled: 07/15/2002 09:04	Extracted: 7/24/2002 17:41
Matrix: Water	QC Batch#: 2002/07/24-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/24/2002 17:41	
Benzene	ND	0.50	ug/L	1.00	07/24/2002 17:41	
Toluene	ND	0.50	ug/L	1.00	07/24/2002 17:41	
Ethylbenzene	ND	0.50	ug/L	1.00	07/24/2002 17:41	
Total xylenes	ND	1.0	ug/L	1.00	07/24/2002 17:41	
Methyl tert-butyl ether (MTBE)	11	0.50	ug/L	1.00	07/24/2002 17:41	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	97.9	76-114	%	1.00	07/24/2002 17:41	
Toluene-d8	103.0	88-110	%	1.00	07/24/2002 17:41	

Submission #: 2002-07-0337

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: 180066.80  
Tosco # 0752

Received: 07/17/2002 15:40

Site: 800 Harrison Street  
Oakland, CA

**SEVERN**  
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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2002/07/24-02.62-047

Water

Test(s): 8260FAB

QC Batch # 2002/07/24-02.62

Date Extracted: 07/24/2002 11:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/24/2002 11:46	
Benzene	ND	0.5	ug/L	07/24/2002 11:46	
Toluene	ND	0.5	ug/L	07/24/2002 11:46	
Ethylbenzene	ND	0.5	ug/L	07/24/2002 11:46	
Total xylenes	ND	1.0	ug/L	07/24/2002 11:46	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/24/2002 11:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/24/2002 11:46	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	07/24/2002 11:46	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	07/24/2002 11:46	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	07/24/2002 11:46	
1,2-DCA	ND	0.5	ug/L	07/24/2002 11:46	
EDB	ND	0.5	ug/L	07/24/2002 11:46	
Ethanol	ND	25	ug/L	07/24/2002 11:46	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	91.6	76-114	%	07/24/2002 11:46	
Toluene-d8	99.6	88-110	%	07/24/2002 11:46	

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B  
 Method Blank  
 MB: 2002/07/25-02.62-034

Water

Test(s): 8260FAB  
 QC Batch # 2002/07/25-02.62  
 Date Extracted: 07/25/2002 10:34

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/25/2002 10:34	
Benzene	ND	0.5	ug/L	07/25/2002 10:34	
Toluene	ND	0.5	ug/L	07/25/2002 10:34	
Ethylbenzene	ND	0.5	ug/L	07/25/2002 10:34	
Total xylenes	ND	1.0	ug/L	07/25/2002 10:34	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/25/2002 10:34	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/25/2002 10:34	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	07/25/2002 10:34	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	07/25/2002 10:34	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	07/25/2002 10:34	
1,2-DCA	ND	0.5	ug/L	07/25/2002 10:34	
EDB	ND	0.5	ug/L	07/25/2002 10:34	
Ethanol	ND	25	ug/L	07/25/2002 10:34	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	90.8	76-114	%	07/25/2002 10:34	
Toluene-d8	103.1	88-110	%	07/25/2002 10:34	

Submission #: 2002-07-0337

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2002/07/24-02.62

LCS 2002/07/24-02.62-002

Extracted: 07/24/2002

Analyzed: 07/24/2002 11:02

LCSD 2002/07/24-02.62-024

Extracted: 07/24/2002

Analyzed: 07/24/2002 11:24

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.1	25.1	25.0	100.4	100.4	0.0	65-165	20		
Benzene	22.6	22.0	25.0	90.4	88.0	2.7	69-129	20		
Toluene	22.3	22.6	25.0	89.2	90.4	1.3	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	487	509	500	97.4	101.8		76-114			
Toluene-d8	514	516	500	102.8	103.2		88-110			

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/07/25-02.62**

LCS 2002/07/25-02.62-050

Extracted: 07/25/2002

Analyzed: 07/25/2002 09:50

LCSD 2002/07/25-02.62-012

Extracted: 07/25/2002

Analyzed: 07/25/2002 10:12

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.8	23.6	25.0	91.2	94.4	3.4	69-129	20		
Toluene	24.5	24.8	25.0	98.0	99.2	1.2	70-130	20		
Methyl tert-butyl ether (MTBE)	27.1	27.5	25.0	108.4	110.0	1.5	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	518	532	500	103.6	106.4		76-114			
Toluene-d8	537	505	500	107.4	101.0		88-110			

Submission #: 2002-07-0337

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CA DHS ELAP# 2496

### Legend and Notes

#### Analysis Flag

o

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

#### Result Flag

g

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