



GETTLER-RYAN INC.

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TRANSMITTAL

Alameda County
JAN 28 2003

January 8, 2003
G-R #180063

Environmental Health

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

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
#0746
3943 Broadway
Oakland California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 3, 2003	Groundwater Monitoring and Sampling Report Second Semi-Annual-Event of November 29, 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 **January 22, 2003**, this report will be distributed to the following:

cc: ~~Ms. Eva Chu~~, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502

DR

Enclosure



GETTLER-RYAN INC.

January 3, 2003
G-R Job #180063

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

RE: Second Semi-Annual Event of November 29, 2002
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California


Dear Mr. De Witt:

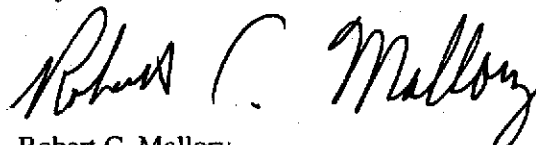
This report documents the monthly site visits and the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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 are presented in Table 3. Dissolved Oxygen Concentrations are 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 reports are also attached.

Sincerely,


Deanna L. Harding
Project Coordinator


Robert C. Mallory
Registered Geologist No. 7285

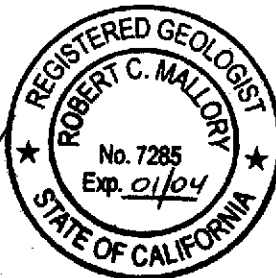
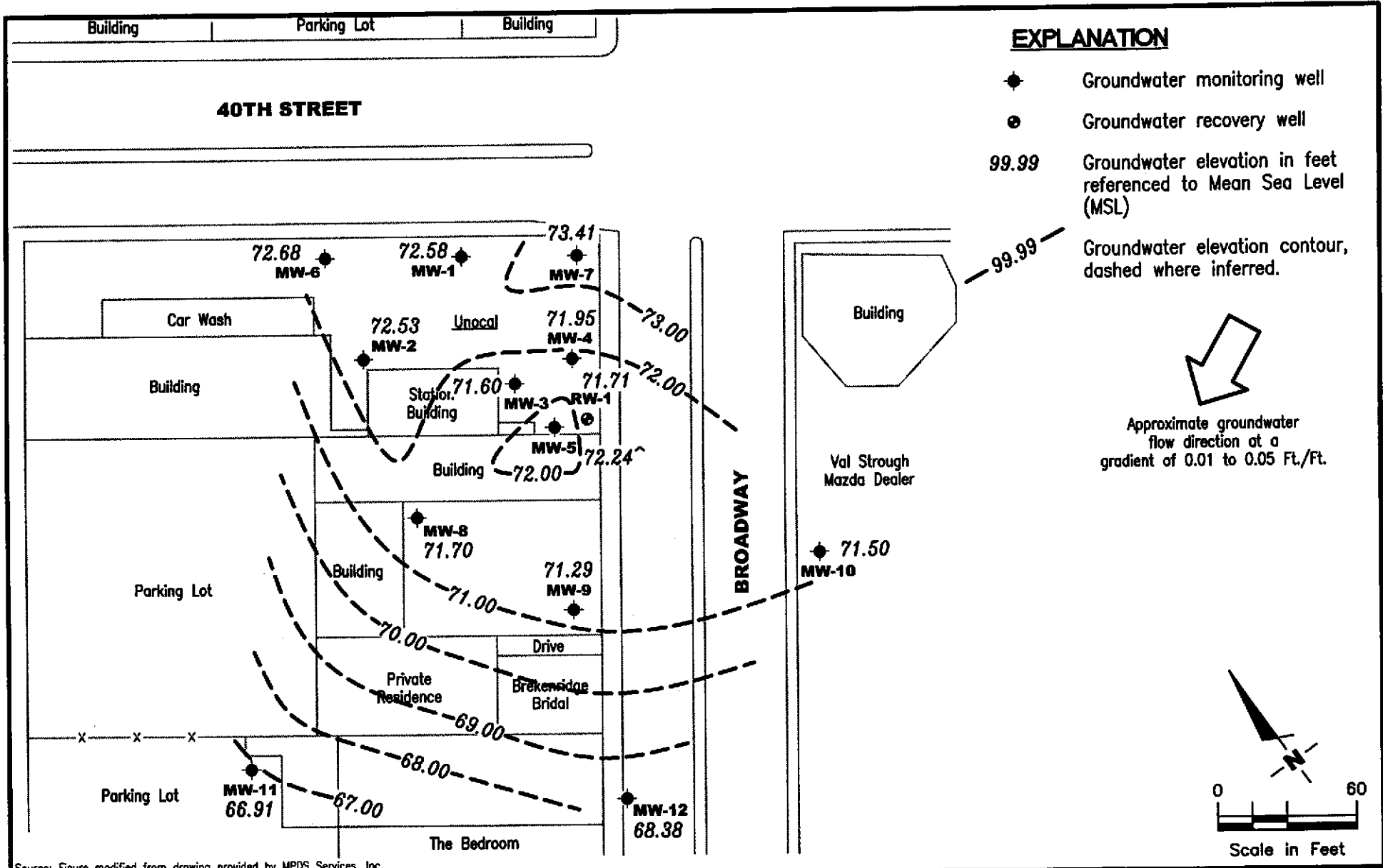


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Dissolved Oxygen Concentrations
Table 3: Product Thickness/Removal Data
Table 4: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

0746.qml



GETTLER - RYAN INC.
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 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

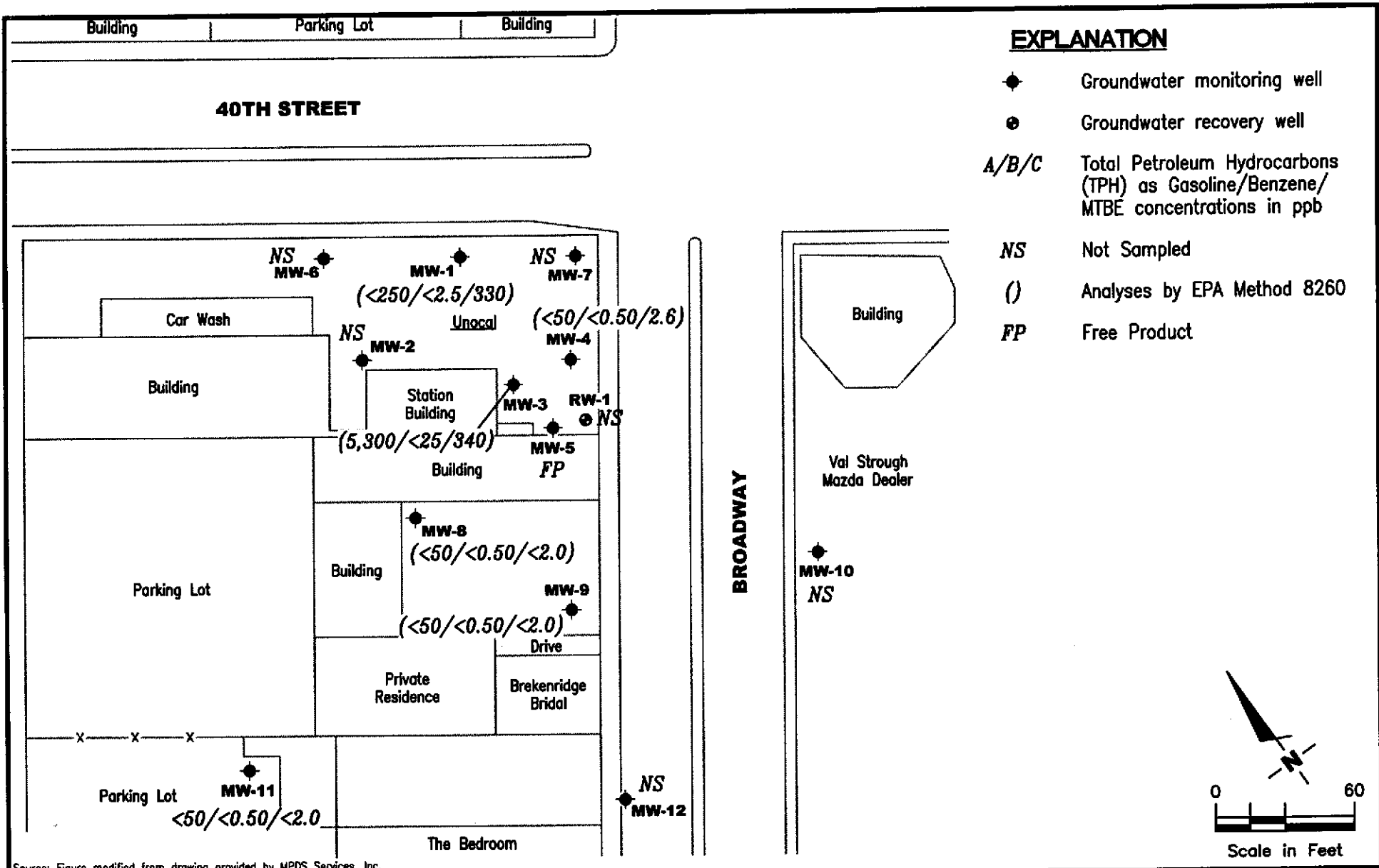
FIGURE
1

JOB NUMBER
 180063

REVIEWED BY

DATE
 November 29, 2002

REVISED DATE



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

GETTLER - RYAN INC.
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 Dublin, CA 94568 (925) 551-7555

CONCENTRATION MAP
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

FIGURE
2

JOB NUMBER: 180063 REVIEWED BY: DATE: November 29, 2002 REVISED DATE:

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-1	11/01/89	--	--	--	ND	ND	ND	ND	0.3	--	
	02/15/90	--	--	--	170	7.9	ND	2.2	2.8	--	
	08/16/90	--	--	--	ND	ND	ND	ND	ND	--	
	11/07/90	--	--	--	45	ND	ND	ND	ND	--	
	02/25/91	--	--	--	ND	ND	ND	ND	ND	--	
	05/28/91	--	--	--	ND	ND	ND	ND	ND	--	
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--	
	11/19/91	--	--	--	ND	ND	ND	ND	ND	--	
	02/06/92	--	--	--	ND	ND	ND	ND	ND	--	
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--	
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--	
11/20/92	--	--	--	ND	0.75	ND	ND	ND	--		
81.07	12/21/92	8.12	72.95	0.00	--	--	--	--	--	--	
	01/30/93	7.63	73.44	0.00	--	--	--	--	--	--	
	02/24/93	7.16	73.91	0.00	1,100	280	4.9	120	140	--	
	03/22/93	6.26	74.81	0.00	--	--	--	--	--	--	
	04/28/93	7.91	73.16	0.00	--	--	--	--	--	--	
80.54	05/25/93	7.87	73.20	0.00	260	27	4.9	2.6	54	--	
	06/23/93	7.66	72.88	0.00	--	--	--	--	--	--	
	07/22/93	7.87	72.67	0.00	--	--	--	--	--	--	
	08/25/93	8.00	72.54	0.00	ND	ND	ND	ND	ND	--	
	09/22/93	8.10	72.44	0.00	--	--	--	--	--	--	
	10/28/93	8.15	72.39	0.00	--	--	--	--	--	--	
	11/30/93	7.65	72.89	0.00	SAMPLED SEMI-ANNUALLY					--	--
	02/16/94	7.46	73.08	0.00	ND	0.84	ND	ND	0.59	--	
	05/31/94	7.80	72.74	0.00	--	--	--	--	--	--	
	08/31/94	8.27	72.27	0.00	ND	ND	0.98	ND	0.84	--	
	09/27/94	8.37	72.17	0.00	--	--	--	--	--	--	
	10/11/94	8.36	72.18	0.00	--	--	--	--	--	--	
	11/10/94	6.43	74.11	0.00	--	--	--	--	--	--	
02/07/95	7.06	73.48	0.00	6,100	670	ND	120	60	--		

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	05/03/95	6.85	73.69	0.00	260	21	39	17	24	--
(cont)	08/03/95	7.69	72.85	0.00	--	--	--	--	--	--
	11/07/95	8.15	72.39	0.00	ND	ND	ND	ND	ND	--
	05/06/96	7.40	73.14	0.00	170	1.0	20	2.3	17	55
	11/05/96	7.90	72.64	0.00	ND	ND	ND	ND	ND	5.2
	05/15/97	7.77	72.77	0.00	ND	ND	ND	ND	ND	16
	11/12/97	7.48	73.06	0.00	ND	ND	ND	ND	ND	11
NP	05/04/98	7.39	73.15	0.00	ND	ND	ND	ND	ND	320
NP	11/11/98	7.37	73.17	0.00	ND	ND	ND	ND	ND	200
NP	05/20/99	7.41	73.13	0.00	ND	ND	ND	ND	ND	89/47 ^{7,8,9}
	11/15/99	7.84	72.70	0.00	ND	ND	ND	ND	ND	8.12/7.19 ¹²
	05/22/00	7.53	73.01	0.00	ND	0.89	ND	ND	ND	220/290 ¹²
	11/22/00	7.35	73.19	0.00	ND	ND	ND	ND	ND	105/142 ⁷
	05/15/01	7.48	73.06	0.00	345 ¹¹	ND ⁵	3.41	2.77	25.2	178/374 ¹²
	11/23/01	7.57	72.97	0.00	<50	<0.50	<0.50	<0.50	<0.50	350/350 ¹²
	05/24/02	7.10	73.44	0.00	70 ¹¹	<0.50	<0.50	<0.50	<0.50	200/240 ⁷
	11/29/02 ¹⁸	7.96	72.58	0.00	<250	<2.5	<2.5	<2.5	<5.0	330
MW-2	11/01/89	--	--	--	200	ND	ND	3.0	1.2	--
	02/15/90	--	--	--	ND	ND	ND	ND	ND	--
	08/16/90	--	--	--	ND	ND	6.7	ND	ND	--
	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	ND	0.68	0.42	ND	0.86	--
	05/28/91	--	--	--	ND	ND	ND	ND	ND	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
	11/19/91	--	--	--	ND	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	0.36	0.66	ND	0.62	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-2	08/26/92	--	--	--	ND	ND	ND	ND	ND	--	
(cont)	11/20/92	--	--	--	510 ¹	ND	ND	ND	ND	--	
81.62	12/21/92	9.14	72.48	0.00	--	--	--	--	--	--	
	01/30/93	8.99	72.63	0.00	--	--	--	--	--	--	
	02/24/93	8.03	73.59	0.00	11,000 ¹	ND	ND	ND	ND	--	
	03/22/93	9.50	72.12	0.00	--	--	--	--	--	--	
	04/28/93	8.87	72.75	0.00	--	--	--	--	--	--	
	05/25/93	9.04	72.58	0.00	1,300 ¹	ND	ND	ND	ND	2,700	
81.32	06/23/93	9.17	72.15	0.00	--	--	--	--	--	--	
	07/22/93	9.42	71.90	0.00	--	--	--	--	--	--	
	08/25/93	9.53	71.79	0.00	190 ¹	ND	ND	ND	ND	--	
	09/22/93	9.67	71.65	0.00	--	--	--	--	--	--	
	10/28/93	9.65	71.67	0.00	--	--	--	--	--	--	
	11/30/93	9.18	72.14	0.00	480 ¹	ND	ND	ND	ND	--	
	02/16/94	8.91	72.41	0.00	3,200 ¹	ND	ND	ND	ND	--	
	05/31/94	9.36	71.96	0.00	1,100 ¹	ND	ND	ND	ND	--	
	08/31/94	9.85	71.47	0.00	310 ¹	ND	ND	ND	ND	--	
	09/27/94	9.95	71.37	0.00	--	--	--	--	--	--	
	10/11/95	9.95	71.37	0.00	--	--	--	--	--	--	
	11/10/94	7.47	73.85	0.00	95 ²	ND	ND	ND	ND	--	
	02/07/95	8.29	73.03	0.00	1,600 ¹	ND	ND	ND	ND	--	
	05/03/95	8.12	73.20	0.00	ND	ND	ND	ND	ND	--	
	08/03/95	9.35	71.97	0.00	ND	ND	ND	ND	ND	--	
	11/07/95	9.65	71.67	0.00	ND	ND	ND	ND	ND	160 ³	
	05/06/96	8.90	72.42	0.00	SAMPLING DISCONTINUED ⁴					--	--
	11/05/96	10.98	70.34	0.00	--	--	--	--	--	--	
	05/15/97	9.13	72.19	0.00	--	--	--	--	--	--	
	11/12/97	9.84	71.48	0.00	--	--	--	--	--	--	
	05/04/98	9.26	72.06	0.00	--	--	--	--	--	--	
	11/11/98	8.88	72.44	0.00	--	--	--	--	--	--	
	05/20/99	8.68	72.64	0.00	--	--	--	--	--	--	

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Groundwater Monitoring Data and Analytical Results
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 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-2	11/15/99	8.91	72.41	0.00	--	--	--	--	--	--	
(cont)	05/22/00	8.61	72.71	0.00	--	--	--	--	--	--	
	11/22/00	8.64	72.68	0.00	--	--	--	--	--	--	
	05/15/01	8.73	72.59	0.00	--	--	--	--	--	--	
	11/23/01	8.61	72.71	0.00	--	--	--	--	--	--	
	05/24/02	8.03	73.29	0.00	--	--	--	--	--	--	
	11/29/02	8.79	72.53	0.00	--	--	--	--	--	--	
MW-3	11/01/89	--	--	--	13,000	57	48	1.7	120	--	
	02/15/90	--	--	--	20,000	1,700	2,100	750	3,100	--	
	08/16/90	--	--	--	6,800	600	660	760	160	--	
	11/07/90	--	--	--	42,000	1,400	5,000	1,800	7,500	--	
	02/25/91	--	--	--	37,000	730	2,900	1,300	7,300	--	
	05/28/91	--	--	--	24,000	570	1,100	810	4,200	--	
	08/28/91	--	--	--	16,000	650	2,200	1,100	5,400	--	
	11/19/91	--	--	--	22,000	250	440	660	3,000	--	
	02/06/92	--	--	--	24,000	600	1,800	1,200	5,800	--	
	05/23/92	--	--	--	25,000	300	130	880	4,900	--	
	08/26/92	--	--	--	20,000	690	1,900	1,300	5,700	--	
	11/20/92	--	--	--	1,100,000 ²	1,800	6,400	3,000	15,000	--	
82.01	12/04/92	10.30	71.71**	0.00	--	--	--	--	--	--	
	12/21/92	9.78	72.23	Trace	--	--	--	--	--	--	
	01/09/93	8.55	73.46	0.00	--	--	--	--	--	--	
	01/30/93	8.90	73.11	0.00	--	--	--	--	--	--	
	02/10/93	9.01	73.01**	0.01	--	--	--	--	--	--	
	02/24/93	8.26	73.76**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	03/09/93	9.18	72.85**	0.02	--	--	--	--	--	--	
	03/22/93	8.81	73.22**	0.02	--	--	--	--	--	--	
	04/08/93	9.14	72.89**	0.02	--	--	--	--	--	--	
	04/28/93	9.44	72.59**	0.03	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	05/12/93	9.57	72.46**	0.03	--	--	--	--	--	--
(cont)	05/25/93	9.45	72.58**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
81.41	06/07/93	8.94	72.47	<0.01	--	--	--	--	--	--
	06/23/93	9.20	72.23**	0.02	--	--	--	--	--	--
	07/08/93	9.31	72.12**	0.03	--	--	--	--	--	--
	07/22/93	9.47	71.94	<0.01	--	--	--	--	--	--
	08/11/93	9.59	71.82	<0.01	--	--	--	--	--	--
	08/25/93	9.67	71.76**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/08/93	10.34	71.07	<0.01	--	--	--	--	--	--
	09/22/93	9.84	71.59**	0.02	--	--	--	--	--	--
	10/07/93	9.87	71.54	<0.01	--	--	--	--	--	--
	10/28/93	10.03	71.38	0.00	--	--	--	--	--	--
	11/12/93	9.76	71.65	<0.01	--	--	--	--	--	--
	11/30/93	9.66	71.77**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/16/94	8.87	72.54	Sheen	57,000	910	2,500	2,100	9,000	--
	05/31/94	9.48	71.93	<0.01	39,000	670	630	1,500	6,200	--
	08/31/94	10.08	71.33	0.00	44,000	500	240	1,400	5,700	--
	09/24/94	10.22	71.19	0.00	--	--	--	--	--	--
	10/11/94	10.41	71.01**	0.01	--	--	--	--	--	--
	11/10/94	7.47	73.94	Sheen	86,000	3,300	3,800	1,800	8,300	--
	02/07/95	8.05	73.36	0.00	45,000	1,400	1,300	1,500	5,600	--
	03/14/95	7.05	74.36	0.00	--	--	--	--	--	--
	05/03/95	7.91	73.50	0.00	26,000	740	990	1,100	4,400	--
	08/03/95	9.28	72.13	0.00	18,000	59	ND	530	1,900	--
	11/07/95	10.79	70.62	0.00	17,000	110	26	400	1,500	880 ³
	05/06/96	9.44	71.97	Sheen	5,100	48	ND	87	210	370
	11/05/96	10.64	70.77	0.00	35,000	2,200	ND	1,200	2,800	460
	05/15/97	9.61	71.80	0.00	2,400	110	ND	ND	140	100
	11/12/97	9.18	72.23	0.00	29,000	2,000	ND	1,800	3,000	ND
NP	05/04/98	9.50	71.91	0.00	8,200	430	ND ⁵	310	320	ND ⁵
NP	11/11/98	9.25	72.16	0.00	8,700	500	ND ⁵	330	310	ND ⁵

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)	NP 05/20/99	8.95	72.46	0.00	4,300	250	ND ⁵	ND ⁵	86	ND ⁵
	11/15/99	10.35	71.06	0.00	6,720 ¹¹	326	ND ⁵	398	226	120/45.1 ¹²
	05/22/00	9.14	72.27	0.00	4,000 ¹¹	99	4.5	190	75	100/94 ¹²
	11/22/00	9.33	72.08	0.00	6,130 ¹⁵	93.7	6.71	174	47.8	212/131 ⁷
	05/15/01	9.25	72.16	0.00	4,490 ¹¹	229	7.09	160	31.6	97.1/75.5 ¹²
	11/23/01	9.12	72.29	0.00	3,500 ¹¹	41	<5.0	120	8.0	320/390 ⁷
	05/24/02	8.58	72.83	0.00	4,000 ¹¹	86	6.0	120	5.8	120/73 ⁷
	11/29/02 ¹⁸	9.81	71.60	0.00	5,300	<25	<25	65	<50	340
MW-4	02/15/90	--	--	--	150	8.0	8.0	10	45	--
	08/16/90	--	--	--	3,600	480	17	230	260	--
	11/07/90	--	--	--	180	1.5	0.37	6.3	26	--
	02/25/91	--	--	--	22,000	600	1,300	780	2,800	--
	05/28/91	--	--	--	38	ND	ND	ND	1.9	--
	08/28/91	--	--	--	2,000	1,500	20	120	300	--
	11/19/91	--	--	--	55	9.2	4.5	1.4	6.7	--
	02/06/92	--	--	--	5,700	2,200	140	57	980	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	120	86	0.52	0.57	1.6	--
11/20/92	--	--	--	ND	6.2	ND	1.2	0.52	--	
81.48	12/21/93	9.10	72.38	0.00	--	--	--	--	--	--
	01/30/93	8.35	73.13	0.00	--	--	--	--	--	--
	02/24/93	8.17	73.31	0.00	140	12	0.64	9.4	3.7	--
	03/22/93	8.12	73.36	0.00	--	--	--	--	--	--
	04/28/93	9.36	72.12	0.00	--	--	--	--	--	--
81.29	05/25/93	8.75	72.73	0.00	74	10	ND	4.6	1.8	--
	06/23/93	8.90	72.39	0.00	--	--	--	--	--	--
	07/22/93	9.26	72.03	0.00	--	--	--	--	--	--
	08/25/93	9.45	71.84	0.00	640	100	1.1	100	22	--
	09/22/93	9.63	71.66	0.00	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	10/28/93	9.62	71.67	0.00	--	--	--	--	--	--
(cont)	11/30/93	9.40	71.89	0.00	200	28	ND	17	8.1	--
	02/16/94	9.21	72.08	0.00	190	11	0.98	21	6.6	--
	05/31/94	9.11	72.18	0.00	1,100	190	ND	100	58	--
	08/31/94	10.01	71.28	0.00	400	17	0.94	14	5.2	--
	09/27/94	10.09	71.20	0.00	--	--	--	--	--	--
	10/11/94	11.50	69.79	0.00	--	--	--	--	--	--
	11/10/94	9.21	72.08	0.00	7,700	1,800	280	460	1,300	--
	02/07/95	7.66	73.63	0.00	540	47	ND	17	2.5	--
	05/03/95	8.29	73.00	0.00	160	8.3	0.52	1.5	3.7	--
	08/03/95	8.60	72.69	0.00	57	2.0	ND	ND	ND	--
	11/07/95	10.28	71.01	0.00	ND	0.71	ND	ND	ND	0.86
	05/06/96	8.70	72.59	0.00	1,200	12	11	15	36	ND
	11/05/96	10.00	71.29	0.00	700	32	0.71	1.8	1.3	6.5
	05/15/97	9.37	71.92	0.00	51	ND	ND	ND	ND	ND
	11/12/97	8.92	72.37	0.00	74	1.7	ND	ND	ND	ND
NP	05/04/98	9.48	71.81	0.00	ND	ND	ND	ND	ND	ND
NP	11/11/98	9.13	72.16	0.00	ND	0.63	ND	ND	ND	ND
NP	05/20/99	8.41	72.88	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	9.68	71.61	0.00	ND	ND	ND	ND	ND	ND
	05/22/00	8.60	72.69	0.00	ND	ND	ND	ND	ND	ND
	11/22/00	8.91	72.38	0.00	ND	ND	ND	ND	ND	ND
	05/15/01	8.66	72.63	0.00	ND	ND	1.10	ND	1.16	ND
	11/23/01	8.84	72.45	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	05/24/02	7.93	73.36	0.00	<50	<0.50	<0.50	<0.50	<0.50	9.6/3.5 ⁷
	11/29/02 ¹⁸	9.34	71.95	0.00	<50	<0.50	<0.50	<0.50	<1.0	2.6
MW-5	02/15/90	--	--	--	24,000	1,500	1,700	260	3,600	--
	08/16/90	--	--	--	16,000	1,400	1,900	2,800	660	--
	11/07/90	--	--	--	20,000	640	1,100	670	3,000	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	02/25/91	--	--	--	25,000	950	1,300	900	3,500	--
(cont)	05/28/91	--	--	--	24,000	2,300	3,400	1,300	6,000	--
	08/28/91	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/19/91	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/06/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	05/23/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	08/26/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/20/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
81.59	12/04/92	10.03	71.62**	0.08	--	--	--	--	--	--
	12/21/92	9.50	72.10**	0.01	--	--	--	--	--	--
	01/09/93	8.22	73.37	0.00	--	--	--	--	--	--
	01/30/93	8.58	73.01	Trace	--	--	--	--	--	--
	02/10/93	8.68	72.91	Trace	--	--	--	--	--	--
	02/24/93	7.91	73.69**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/09/93	8.87	72.73**	0.01	--	--	--	--	--	--
	03/22/93	8.46	73.14**	0.01	--	--	--	--	--	--
	04/08/93	8.84	72.76**	0.01	--	--	--	--	--	--
	04/28/93	9.14	72.47**	0.02	--	--	--	--	--	--
	05/12/93	9.28	72.33**	0.02	--	--	--	--	--	--
	05/25/93	9.63	72.06**	0.13	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
81.38	06/07/93	9.75	71.64**	0.01	--	--	--	--	--	--
	06/23/93	9.32	72.08**	0.03	--	--	--	--	--	--
	07/08/93	9.48	71.93**	0.04	--	--	--	--	--	--
	07/22/93	9.73	71.77**	0.16	--	--	--	--	--	--
	08/11/93	9.84	71.57**	0.04	--	--	--	--	--	--
	08/25/93	9.81	71.59**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/08/93	10.09	71.31**	0.03	--	--	--	--	--	--
	09/22/93	10.01	71.41**	0.05	--	--	--	--	--	--
	10/07/93	9.94	71.46**	0.03	--	--	--	--	--	--
	10/28/93	10.04	71.36**	0.02	--	--	--	--	--	--
	11/12/93	9.79	71.59	<0.01	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5 (cont)	11/30/93	9.62	71.76	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/16/94	8.95	72.45**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	05/31/94	9.63	71.75	<0.01	43,000	1,500	1,200	1,600	6,700	--
	08/31/94	10.25	71.15**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/27/94	10.38	71.00	<0.01	--	--	--	--	--	--
	10/11/94	10.45	70.95**	0.02	--	--	--	--	--	--
	11/10/94	7.54	73.90**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/07/95	8.10	73.28	0.00	25,000	1,400	740	990	3,000	--
	03/14/95	7.04	74.34	0.00	--	--	--	--	--	--
	05/03/95	7.98	73.40	0.00	12,000	680	160	600	1,800	--
	08/03/95	9.25	72.13	0.00	23,000	940	280	810	2,700	--
	11/07/95	10.00	71.38	0.00	40,000	510	280	1,000	5,700	630 ³
	05/06/96	9.03	72.35	Sheen	13,000	200	ND	180	610	170
	11/05/96	10.41	70.97	0.00	35,000	1,800	ND	1,300	4,900	580
	05/15/97	9.41	71.97	Sheen	10,000	490	ND	ND	1,300	ND
	11/12/97	9.27	72.11	0.00	100	5.1	ND	ND	ND	74
	NP	05/04/98	9.18	72.20	0.00	39,000	1,600	230	1,000	3,200
11/11/98		9.23	72.43**	0.37	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
02/22/99		7.69	73.88**	0.25	--	--	--	--	--	--
04/02/99 ⁶		8.19	73.40**	0.28	--	--	--	--	--	--
05/04/99		8.44	72.95**	0.01	--	--	--	--	--	--
05/20/99		8.73	72.68**	0.04	--	--	--	--	--	--
06/29/99		8.91	72.51**	0.05	--	--	--	--	--	--
07/29/99		9.12	72.31**	0.07	--	--	--	--	--	--
08/24/99		9.37	72.08**	0.09	--	--	--	--	--	--
09/27/99		9.51	71.92**	0.06	--	--	--	--	--	--
10/28/99		--	--	0.05	--	--	--	--	--	--
11/15/99		9.29	72.09	Sheen	--	--	--	--	--	--
12/20/99 ¹³		9.14	72.24	0.00	--	--	--	--	--	--
01/20/00 ¹³	9.08	72.30	0.00	--	--	--	--	--	--	
02/26/00 ¹³	8.69	72.69	0.00	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5 (cont)	03/31/00 ¹³	8.48	72.90	0.00	--	--	--	--	--	--
	04/13/00	8.66	72.72	0.00	--	--	--	--	--	--
	05/22/00 ¹⁴	9.06	72.32	0.00	240,000 ¹¹	33,000	5,000	18,000	59,000	640/21 ¹²
	11/22/00 ¹⁶	9.24	72.64**	0.67	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/14/01 ¹⁷	7.63	74.00**	0.33	--	--	--	--	--	--
	03/28/01 ¹⁷	8.82	72.56	0.00	--	--	--	--	--	--
	04/28/01 ¹⁷	8.66	72.72	0.00	--	--	--	--	--	--
	05/15/01 ¹⁷	8.97	72.41	0.00	--	--	--	--	--	--
	06/29/01 ¹⁷	8.73	72.65	0.00	--	--	--	--	--	--
	07/17/01 ¹⁷	8.92	72.48**	0.02	--	--	--	--	--	--
	08/30/01 ¹⁷	8.85	72.53	0.00	--	--	--	--	--	--
	09/24/01 ¹⁷	8.89	72.49	0.00	--	--	--	--	--	--
	10/15/01 ¹⁷	9.11	72.29**	0.03	--	--	--	--	--	--
	11/23/01 ¹⁷	8.77	72.61	0.00	29,000 ¹¹	3,900	450	1,400	3,500	<500
	12/10/01 ¹⁷	8.75	72.63	0.00	--	--	--	--	--	--
	01/14/02 ¹⁷	8.26	73.12	0.00	--	--	--	--	--	--
	02/22/02 ¹⁷	6.30	75.08	0.00	--	--	--	--	--	--
	03/11/02 ¹⁷	6.47	74.91	0.00	--	--	--	--	--	--
	04/15/02 ¹⁷	6.56	74.82	0.00	--	--	--	--	--	--
	05/24/02 ¹⁷	8.32	73.17**	0.15	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	06/17/02 ¹⁷	8.41	73.12**	0.20	--	--	--	--	--	--
07/15/02 ¹⁷	8.63	72.90**	0.20	--	--	--	--	--	--	
08/19/02 ¹⁷	8.76	72.85**	0.31	--	--	--	--	--	--	
09/05/02 ¹⁷	8.73	72.77**	0.16	--	--	--	--	--	--	
10/07/02 ¹⁷	8.79	72.66**	0.09	--	--	--	--	--	--	
11/29/02 ¹⁷	9.18	72.24**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	
MW-6	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	ND	0.37	0.4	0.35	1.5	--
	05/28/91	--	--	--	ND	ND	ND	ND	0.42	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-6	08/28/91	--	--	--	ND	ND	ND	ND	ND	--	
(cont)	11/19/91	--	--	--	ND	ND	ND	ND	ND	--	
	02/06/92	--	--	--	ND	ND	ND	ND	ND	--	
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--	
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--	
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--	
80.47	12/21/92	7.71	72.76	0.00	--	--	--	--	--	--	
	01/30/93	7.25	73.22	0.00	--	--	--	--	--	--	
	02/24/93	6.74	73.73	0.00	ND	ND	ND	ND	ND	--	
	03/22/93	5.85	74.62	0.00	--	--	--	--	--	--	
	04/28/93	7.58	72.89	0.00	--	--	--	--	--	--	
	05/25/93	7.48	72.99	0.00	ND	ND	ND	ND	ND	--	
79.94	06/23/93	7.34	72.60	0.00	--	--	--	--	--	--	
	07/22/93	7.53	72.41	0.00	--	--	--	--	--	--	
	08/25/93	7.66	72.28	0.00	ND	ND	ND	ND	ND	--	
	09/22/93	7.76	72.18	0.00	--	--	--	--	--	--	
	10/28/93	8.30	71.64	0.00	--	--	--	--	--	--	
	11/30/93	7.40	72.54	0.00	SAMPLED SEMI-ANNUALLY					--	--
	02/16/94	7.13	72.81	0.00	ND	ND	ND	ND	ND	--	
	05/31/94	7.49	72.45	0.00	--	--	--	--	--	--	
	08/31/94	7.93	72.01	0.00	ND	ND	1.5	ND	1.6	--	
	09/27/94	8.03	71.91	0.00	--	--	--	--	--	--	
	10/11/94	8.05	71.89	0.00	--	--	--	--	--	--	
	11/10/94	6.12	73.82	0.00	--	--	--	--	--	--	
	02/07/95	6.65	73.29	0.00	ND	ND	ND	ND	ND	--	
	05/03/95	6.47	73.47	0.00	ND	ND	ND	ND	1.0	--	
	08/03/95	7.28	72.66	0.00	--	--	--	--	--	--	
	11/07/95	7.98	71.96	0.00	ND	ND	ND	ND	ND	--	
	05/06/96	7.80	72.14	0.00	SAMPLING DISCONTINUED ⁴					--	--
	11/05/96	7.63	72.31	0.00	--	--	--	--	--	--	
	05/15/97	7.41	72.53	0.00	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	11/12/97	7.51	72.43	0.00	--	--	--	--	--	--
(cont)	05/04/98	7.15	72.79	0.00	--	--	--	--	--	--
	11/11/98	7.04	72.90	0.00	--	--	--	--	--	--
	05/20/99	7.00	72.94	0.00	--	--	--	--	--	--
	11/15/99	7.42	72.52	0.00	--	--	--	--	--	--
	05/22/00	7.24	72.70	0.00	--	--	--	--	--	--
	11/22/00	7.40	72.54	0.00	--	--	--	--	--	--
	05/15/01	7.12	72.82	0.00	--	--	--	--	--	--
	11/23/01	7.19	72.75	0.00	--	--	--	--	--	--
	05/24/02	6.54	73.40	0.00	--	--	--	--	--	--
	11/29/02	7.26	72.68	0.00	--	--	--	--	--	--
MW-7	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	70	ND	ND	ND	0.52	--
	05/28/91	--	--	--	39	ND	ND	ND	0.73	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
	11/19/91	--	--	--	32	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	0.73	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
81.83	12/21/92	8.42	73.41	0.00	--	--	--	--	--	--
	01/30/93	8.21	73.62	0.00	--	--	--	--	--	--
	02/24/93	7.85	73.98	0.00	ND	ND	ND	ND	ND	--
	03/22/93	6.97	74.86	0.00	--	--	--	--	--	--
	04/28/93	8.39	73.44	0.00	--	--	--	--	--	--
	05/25/93	8.43	73.40	0.00	ND	ND	ND	ND	ND	--
81.64	06/23/93	8.47	73.17	0.00	--	--	--	--	--	--
	07/22/93	8.83	72.81	0.00	--	--	--	--	--	--
	08/25/93	8.81	72.83	0.00	ND	ND	ND	ND	ND	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	09/22/93	8.96	72.68	0.00	--	--	--	--	--	--
(cont)	10/28/93	8.98	72.66	0.00	--	--	--	--	--	--
	11/30/93	8.65	72.99	0.00	SAMPLED SEMI-ANNUALLY					--
	02/16/94	8.36	73.28	0.00	ND	ND	ND	ND	0.7	--
	05/31/94	8.67	72.97	0.00	--	--	--	--	--	--
	08/31/94	9.12	72.52	0.00	ND	ND	0.8	ND	0.75	--
	09/27/94	9.22	72.42	0.00	--	--	--	--	--	--
	10/11/94	9.23	72.41	0.00	--	--	--	--	--	--
	11/10/94	7.66	73.98	0.00	--	--	--	--	--	--
	02/07/95	7.88	73.76	0.00	ND	ND	ND	ND	ND	--
	05/03/95	7.71	73.93	0.00	ND	ND	ND	ND	1.0	--
	08/03/95	8.40	73.24	0.00	--	--	--	--	--	--
	11/07/95	8.95	72.69	0.00	ND	ND	ND	ND	ND	--
	05/06/96	8.15	73.49	0.00	--	--	--	--	--	--
	11/05/96	8.67	72.97	0.00	--	--	--	--	--	--
	05/15/97	8.47	73.17	0.00	--	--	--	--	--	--
	11/12/97	7.88	73.76	0.00	--	--	--	--	--	--
	05/04/98	7.93	73.71	0.00	--	--	--	--	--	--
	11/11/98	8.20	73.44	0.00	--	--	--	--	--	--
	05/20/99	8.04	73.60	0.00	--	--	--	--	--	--
	11/15/99	8.17	73.47	0.00	--	--	--	--	--	--
NP	05/22/00	8.10	73.54	0.00	--	--	--	--	--	--
	11/22/00	8.30	73.34	0.00	--	--	--	--	--	--
	05/15/01	8.09	73.55	0.00	--	--	--	--	--	--
	11/23/01	8.14	73.50	0.00	--	--	--	--	--	--
	05/24/02	7.56	74.08	0.00	--	--	--	--	--	--
	11/29/02	8.23	73.41	0.00	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	11/07/90	--	--	--	4,700	28	38	86	7,200	--
	02/25/91	--	--	--	5,300	17	6.1	53	300	--
	05/28/91	--	--	--	4,800	4.2	1.3	5.1	170	--
	08/28/91	--	--	--	1,800	3.2	1.9	19	74	--
	11/19/91	--	--	--	1,600	8.1	1.8	19	52	--
	02/06/92	--	--	--	2,600	4.1	7.0	31	93	--
	05/23/92	--	--	--	2,100	8.6	1.6	1.7	28	--
	08/26/92	--	--	--	1,800	12	8.0	4.0	13	--
81.71	11/20/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	12/21/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/09/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/10/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/24/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/09/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/08/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
05/12/93	INACCESSIBLE	--	--	--	--	--	--	--	--	
81.41	05/25/93	10.12	71.59	0.00	1,200	5.4	ND	9.0	21	--
	06/07/93	9.98	71.43	0.00	--	--	--	--	--	--
	06/23/93	10.36	71.05	0.00	--	--	--	--	--	--
	07/08/93	10.52	70.89	0.00	--	--	--	--	--	--
	07/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	08/11/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	08/25/93	10.95	70.46	0.00	1,800	11	17	8.9	29	--
	09/08/93	11.34	70.07	0.00	--	--	--	--	--	--
	09/22/93	11.13	70.28	0.00	--	--	--	--	--	--
	10/07/93	10.96	70.45	0.00	--	--	--	--	--	--
	10/28/93	11.19	70.22	0.00	--	--	--	--	--	--
11/12/93	INACCESSIBLE	--	--	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	11/30/93	10.42	70.99	0.00	3,500	18	ND	ND	ND	--
(cont)	02/16/94	9.86	71.55	0.00	990	4.9	1.8	2.4	4.5	--
	05/31/94	10.61	70.80	0.00	350	3.0	1.0	0.73	1.7	--
	08/31/94	11.37	70.04	0.00	1,800 ¹	ND	ND	ND	ND	--
	09/27/94	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	10/11/94	11.50	69.91	0.00	--	--	--	--	--	--
	11/10/94	7.81	73.60	0.00	940	6.7	6.3	ND	16	--
	02/07/95	8.69	72.72	0.00	230	1.4	0.95	0.9	1.1	--
	05/03/95	8.60	72.81	0.00	75	ND	ND	ND	1.0	--
	08/03/95	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/07/95	11.05	70.36	0.00	210	1.3	1.2	ND	ND	-- ³
	05/06/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/05/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	05/15/97	10.46	70.95	0.00	ND	ND	ND	ND	ND	43
	11/12/97	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	05/04/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/11/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
NP	05/20/99	9.75	71.66	0.00	ND	ND	ND	ND	ND	23/10 ^{7,8,10}
	11/15/99	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
NP	05/22/00	9.80	71.61	0.00	ND	ND	1.9	ND	3.3	ND
NP	11/22/00	9.76	71.65	0.00	ND	ND	1.16	ND	1.22	ND
NP	05/15/01	9.87	71.54	0.00	ND	ND	ND	ND	ND	ND
NP	11/23/01	9.92	71.49	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
NP	05/24/02	9.26	72.15	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
NP	11/29/02 ¹⁸	9.71	71.70	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
MW-9	11/07/90	--	--	--	480	7.8	1.2	13	47	--
	02/25/91	--	--	--	390	13	1.1	2.8	14	--
	05/28/91	--	--	--	590	6.0	0.43	6.8	1.4	--
	08/28/91	--	--	--	450	17	0.9	13	14	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	11/19/91	--	--	--	360	17	0.45	15	11	--
(cont)	02/06/92	--	--	--	660	41	1.0	33	15	--
	05/23/92	--	--	--	460	18	0.66	1.4	3.2	--
	08/26/92	--	--	--	250	13	ND	8.6	3.8	--
	11/20/92	INACCESSIBLE	--	--	--	--	--	--	--	--
81.13	12/21/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/24/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/25/93	11.50	69.63	0.00	160	6.1	ND	7.4	1.1	--
80.53	06/23/93	9.78	70.75	0.00	--	--	--	--	--	--
	07/22/93	10.10	70.43	0.00	--	--	--	--	--	--
	08/25/93	10.44	70.09	0.00	220	10	ND	6.8	1.4	--
	09/22/93	10.64	69.89	0.00	--	--	--	--	--	--
	10/28/93	10.68	69.85	0.00	--	--	--	--	--	--
	11/30/93	9.87	70.66	0.00	200	5.6	ND	2.9	2.7	--
	02/16/94	9.21	71.32	0.00	250	5.1	1.3	4.4	1.5	--
	05/31/94	10.15	70.38	0.00	360	7.8	0.97	4.6	2.2	--
	08/31/94	10.97	69.56	0.00	650	7.7	2.8	4.4	5.0	59
	09/27/94	11.10	69.43	0.00	--	--	--	--	--	--
	10/11/94	11.20	69.33	0.00	--	--	--	--	--	--
	11/10/94	7.25	73.28	0.00	ND	ND	ND	ND	ND	--
	02/07/95	7.76	72.77	0.00	57	0.7	ND	0.86	ND	--
	05/03/95	7.82	72.71	0.00	ND	0.85	0.67	1.3	1.0	--
	08/03/95	9.70	70.83	0.00	91	1.1	ND	ND	ND	--
	11/07/95	10.64	69.89	0.00	130	1.5	0.62	0.71	ND	60 ³
	05/06/96	9.01	71.52	0.00	860	6.1	13	6.0	25	ND
	11/05/96	11.42	69.11	0.00	84	0.74	ND	1.2	4.5	ND
	05/15/97	9.89	70.64	0.00	ND	ND	ND	ND	ND	ND
	11/12/97	10.22	70.31	0.00	ND	0.55	ND	ND	ND	74

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-9 (cont)	NP	05/04/98	10.05	70.48	0.00	ND	ND	ND	ND	ND	45
	NP	11/11/98	9.23	71.30	0.00	ND	ND	ND	ND	ND	ND
	NP	05/20/99	8.78	71.75	0.00	ND	ND	ND	ND	ND	ND
		11/15/99	9.12	71.41	0.00	ND	ND	ND	ND	ND	ND
		05/22/00	9.17	71.36	0.00	ND	ND	1.9	ND	3.5	ND
		11/22/00	9.08	71.45	0.00	ND	ND	1.18	ND	1.16	ND
		05/15/01	8.85	71.68	0.00	ND	ND	ND	ND	ND	ND
		11/23/01	9.10	71.43	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
		05/24/02	8.79	71.74	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
		11/29/02 ¹⁸	9.24	71.29	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
MW-10		02/06/92	--	--	--	ND	ND	ND	ND	ND	--
		05/23/92	--	--	--	ND	ND	ND	ND	ND	--
		08/26/92	--	--	--	ND	ND	ND	ND	ND	--
		11/20/92	--	--	--	ND	ND	ND	ND	ND	--
81.90		12/21/92	13.41	68.49	0.00	--	--	--	--	--	--
		01/30/93	11.60	70.30	0.00	--	--	--	--	--	--
		02/24/93	11.23	70.67	0.00	ND	ND	ND	ND	ND	--
		03/22/93	10.89	71.01	0.00	--	--	--	--	--	--
		04/28/93	12.11	69.79	0.00	--	--	--	--	--	--
81.61		05/25/93	12.02	69.88	0.00	ND	ND	ND	ND	ND	--
		06/23/93	12.11	69.50	0.00	--	--	--	--	--	--
		07/22/93	12.49	69.12	0.00	--	--	--	--	--	--
		08/25/93	12.78	68.83	0.00	ND	ND	ND	ND	ND	--
		09/22/93	13.06	68.55	0.00	--	--	--	--	--	--
		10/28/93	13.23	--	0.00	--	--	--	--	--	--
		11/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
		02/16/94	12.43	69.18	0.00	ND	ND	ND	ND	ND	--
		05/31/94	12.69	68.92	0.00	ND	ND	0.9	ND	0.91	--
		08/31/94	13.47	68.14	0.00	ND	ND	0.64	ND	0.54	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10 (cont)	09/27/94	13.72	67.89	0.00	--	--	--	--	--	--
	10/11/94	14.80	66.81	0.00	--	--	--	--	--	--
	11/10/94	12.64	68.97	0.00	ND	ND	ND	ND	ND	--
	02/07/95	10.29	71.32	0.00	SAMPLED SEMI-ANNUALLY			--	--	--
	05/03/95	10.22	71.39	0.00	ND	ND	ND	ND	0.65	--
	08/03/95	11.73	69.88	0.00	--	--	--	--	--	--
	11/07/95	12.98	68.63	0.00	ND	ND	ND	ND	ND	--
	05/06/96	10.90	70.71	0.00	SAMPLING DISCONTINUED ¹			--	--	--
	11/05/96	11.96	69.65	0.00	--	--	--	--	--	--
	05/15/97	10.79	70.82	0.00	--	--	--	--	--	--
	11/12/97	10.07	71.54	0.00	--	--	--	--	--	--
	05/04/98	10.01	71.60	0.00	--	--	--	--	--	--
	11/11/98	12.03	69.58	0.00	--	--	--	--	--	--
	05/20/99	10.05	71.56	0.00	--	--	--	--	--	--
	11/15/99	10.16	71.45	0.00	--	--	--	--	--	--
	05/22/00	10.06	71.55	0.00	--	--	--	--	--	--
	11/22/00	10.12	71.49	0.00	--	--	--	--	--	--
	05/15/01	10.08	71.53	0.00	--	--	--	--	--	--
	11/23/01	10.14	71.47	0.00	--	--	--	--	--	--
	05/24/02	9.48	72.13	0.00	--	--	--	--	--	--
11/29/02	10.11	71.50	0.00	--	--	--	--	--	--	
MW-11	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
78.43	12/21/92	12.34	66.09	0.00	--	--	--	--	--	--
	01/30/93	14.17	64.26	0.00	--	--	--	--	--	--
	02/24/93	12.70	65.73	0.00	ND	ND	ND	ND	ND	--
	03/22/93	8.95	69.48	0.00	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	04/28/93	13.87	64.56	0.00	--	--	--	--	--	--
(cont)	05/25/93	15.14	63.29	0.00	ND	ND	0.75	ND	1.0	--
78.18	06/23/93	15.08	63.10	0.00	--	--	--	--	--	--
	07/22/93	15.46	62.72	0.00	--	--	--	--	--	--
	08/25/93	14.10	64.08	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.03	63.15	0.00	--	--	--	--	--	--
	10/28/93	13.84	64.34	0.00	--	--	--	--	--	--
	11/30/93	13.04	65.14	0.00	ND	ND	ND	ND	ND	--
	02/16/94	12.76	65.42	0.00	ND	ND	ND	ND	ND	--
	05/31/94	12.79	65.39	0.00	ND	ND	ND	ND	ND	--
	08/31/94	12.97	65.21	0.00	ND	ND	1.5	ND	1.8	--
	09/27/94	14.88	63.30	0.00	--	--	--	--	--	--
	10/11/94	13.40	64.78	0.00	--	--	--	--	--	--
	11/10/94	13.57	64.61	0.00	ND	ND	ND	ND	ND	--
	02/07/95	12.28	65.90	0.00	SAMPLED SEMI-ANNUALLY			--	--	--
	05/03/95	9.28	68.90	0.00	ND	ND	ND	ND	ND	--
	08/03/95	12.67	65.51	0.00	--	--	--	--	--	--
	11/07/95	12.28	65.90	0.00	ND	ND	ND	ND	ND	--
	05/06/96	13.30	64.88	0.00	SAMPLING DISCONTINUED ⁴			--	--	--
	11/05/96	10.90	67.28	0.00	--	--	--	--	--	--
	05/15/97	11.65	66.53	0.00	--	--	--	--	--	--
	11/12/97	9.66	68.52	0.00	--	--	--	--	--	--
	05/04/98	10.87	67.31	0.00	--	--	--	--	--	--
	11/11/98	11.40	66.78	0.00	--	--	--	--	--	--
NP	05/20/99	10.71	67.47	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	11.32	66.86	0.00	ND	ND	1.04	ND	ND	ND
	05/22/00	10.98	67.20	0.00	ND	ND	ND	ND	ND	ND
	11/22/00	11.17	67.01	0.00	ND	ND	ND	ND	ND	ND
	05/15/01	10.93	67.25	0.00	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	11/23/01	11.08	67.10	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
(cont)	05/24/02	10.58	67.60	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/29/02 ¹⁸	11.27	66.91	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
MW-12	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
79.89	12/21/92	12.11	67.78	0.00	--	--	--	--	--	--
	01/30/93	13.18	66.71	0.00	--	--	--	--	--	--
	02/24/93	12.13	67.76	0.00	ND	ND	ND	ND	ND	--
	03/22/93	11.22	68.67	0.00	--	--	--	--	--	--
	04/28/93	13.42	66.47	0.00	--	--	--	--	--	--
	05/25/93	13.68	66.21	0.00	ND	ND	ND	ND	ND	--
79.61	06/23/93	14.56	65.05	0.00	--	--	--	--	--	--
	07/22/93	14.96	64.65	0.00	--	--	--	--	--	--
	08/25/93	13.61	66.00	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.02	64.59	0.00	--	--	--	--	--	--
	10/28/93	14.04	65.57	0.00	--	--	--	--	--	--
	11/30/93	13.28	66.33	0.00	ND	ND	ND	ND	ND	--
	02/16/94	12.76	66.85	0.00	ND	ND	ND	ND	ND	--
	08/31/94	12.82	66.79	0.00	ND	ND	1.0	ND	1.0	ND
	05/31/94	12.64	66.97	0.00	ND	ND	0.81	ND	0.82	--
	09/27/94	14.66	64.95	0.00	--	--	--	--	--	--
	10/11/94	14.25	65.36	0.00	--	--	--	--	--	--
	11/10/94	13.40	66.21	0.00	ND	ND	ND	ND	ND	--
	02/07/95	11.72	67.89	0.00	SAMPLED SEMI-ANNUALLY			--	--	--
	05/03/95	13.38	66.23	0.00	ND	ND	ND	ND	ND	--
	08/03/95	13.47	66.14	0.00	--	--	--	--	--	--
	11/07/95	12.78	66.83	0.00	ND	ND	ND	ND	ND	--
	05/06/96	13.25	66.36	0.00	SAMPLING DISCONTINUED ⁴			--	--	--
	11/05/96	11.88	67.73	0.00	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-12 (cont)	05/15/97	11.72	67.89	0.00	--	--	--	--	--	--
	11/12/97	10.01	69.60	0.00	--	--	--	--	--	--
	05/04/98	10.96	68.65	0.00	--	--	--	--	--	--
	11/11/98	11.53	68.08	0.00	--	--	--	--	--	--
	05/20/99	10.84	68.77	0.00	--	--	--	--	--	--
	11/15/99	11.36	68.25	0.00	--	--	--	--	--	--
	05/22/00	11.19	68.42	0.00	--	--	--	--	--	--
	11/22/00	11.36	68.25	0.00	--	--	--	--	--	--
	05/15/01	11.04	68.57	0.00	--	--	--	--	--	--
	11/23/01	11.14	68.47	0.00	--	--	--	--	--	--
	05/24/02	10.69	68.92	0.00	--	--	--	--	--	--
11/29/02	11.23	68.38	0.00	--	--	--	--	--	--	
RW-1 81.20 80.63	02/24/93	7.19	74.01	0.00	--	--	--	--	--	--
	05/12/93	8.82	72.38	0.00	--	--	--	--	--	--
	05/25/93	8.58	72.62	0.00	--	--	--	--	--	--
	06/07/93	8.16	72.47	0.00	--	--	--	--	--	--
	06/23/93	8.53	72.10	0.00	--	--	--	--	--	--
	07/08/93	8.69	71.94	0.00	--	--	--	--	--	--
	08/11/93	9.00	71.63	0.00	--	--	--	--	--	--
	08/25/93	9.07	71.56	0.00	--	--	--	--	--	--
	09/08/93	9.71	70.92	0.00	--	--	--	--	--	--
	09/22/93	9.25	71.38	0.00	--	--	--	--	--	--
	11/12/93	9.00	71.63	<0.01	--	--	--	--	--	--
	02/16/94	7.82	72.81	0.00	--	--	--	--	--	--
	05/31/94	8.81	71.82	0.00	--	--	--	--	--	--
	08/31/94	9.61	71.02	0.00	--	--	--	--	--	--
	11/10/94	6.34	74.29	0.00	--	--	--	--	--	--
02/07/95	7.18	73.45	0.00	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
RW-1	03/14/95	6.01	74.62	0.00	--	--	--	--	--	--
(cont)	10/15/01	8.43	72.20	0.00	--	--	--	--	--	--
	11/23/01	8.57	72.06	0.00	--	--	--	--	--	--
	12/10/01	8.51	72.12	0.00	--	--	--	--	--	--
	01/14/02	8.13	72.50	0.00	--	--	--	--	--	--
	02/22/02	6.18	74.45	0.00	--	--	--	--	--	--
	03/11/02	6.31	74.32	0.00	--	--	--	--	--	--
	04/15/02	6.39	74.24	0.00	--	--	--	--	--	--
	05/24/02	8.14	72.49	0.00	--	--	--	--	--	--
	06/17/02	8.18	72.45	0.00	--	--	--	--	--	--
	07/15/02	8.29	72.34	0.00	--	--	--	--	--	--
	08/19/02	8.44	72.19	0.00	--	--	--	--	--	--
	09/05/02	8.47	72.16	0.00	--	--	--	--	--	--
	10/07/02	8.43	72.20	0.00	--	--	--	--	--	--
	11/29/02	8.92	71.71	0.00	--	--	--	--	--	--
Trip Blank										
TB-LB	05/04/98	--	--	--	ND	ND	ND	ND	ND	ND
	11/11/98	--	--	--	ND	ND	ND	ND	ND	ND
	05/20/99	--	--	--	ND	ND	ND	ND	ND	ND
	11/15/99	--	--	--	ND	ND	1.12	ND	ND	ND
	05/22/00	--	--	--	ND	ND	ND	ND	ND	ND
	11/22/00	--	--	--	ND	ND	ND	ND	ND	ND
	05/15/01	--	--	--	ND	ND	ND	ND	ND	ND
	11/23/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	05/24/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	11/29/02 ¹⁸	--	--	--	<50	<0.50	0.75	<0.50	<1.0	<2.0

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 4, 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-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

NP = No Purge

QA = Quality Assurance/Trip Blank

- * TOC elevations have been surveyed relative to mean sea level (msl) per the City of Oakland Benchmark BM#1336 (Elevation = 82.28 feet msl).
 Prior to June 7, 1993, DTW measurements were taken from the top of well covers.
- ** Groundwater elevation corrected due to the presence of free product; correction factor: $[(TOC-DTW)+(Product\ Thickness\ x\ 0.75)]$.
- 1 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 3 Laboratory has identified the presence of MTBE at a level greater than or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 4 Sampling discontinued per Alameda County Health Care Services' letter dated January 24, 1996.
- 5 Detection limit raised. Refer to analytical reports.
- 6 Twelve minutes after water/product was bailed, well was monitored again, (DTW = 8.06 ft. and Product Thickness 0.04 ft.).
- 7 MTBE by EPA Method 8260.
- 8 Sample analyzed past hold time (June 9, 1999).
- 9 First run on MTBE by EPA Method 8260 was 92 ppb and analyzed past hold time (June 9, 1999).
- 10 First run on MTBE by EPA Method 8260 was 12 ppb and analyzed past hold time (June 9, 1999).
- 11 Laboratory report indicates gasoline C6-C12.
- 12 MTBE by EPA Method 8260 analyzed outside the EPA recommended holding time.
- 13 Less than 1 ounce of product found in skimmer.
- 14 1.5 ounces of product found in skimmer.
- 15 Laboratory report indicates weathered gasoline C6-C12.
- 16 Skimmer not present in well.
- 17 Skimmer installed/present in well.
- 18 TPH-G, BTEX and MTBE by EPA Method 8260.

Table 2
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-1	05/06/96	5.21	4.13
	11/05/96	3.12	-- ¹
	05/15/97	3.92	-- ¹
	11/12/97	4.16	-- ¹
	05/04/98	3.84	-- ¹
	11/11/98	2.85	-- ¹
	05/20/99	3.30	-- ¹
MW-2	08/19/95	--	2.77
	05/15/97	3.01	-- ¹
	11/12/97	3.27	-- ¹
	05/04/98	3.63	-- ¹
MW-3	08/19/95	--	2.06
	11/07/95	--	1.68
	05/06/96	3.18	3.40
	11/05/96	2.03	-- ¹
	05/15/97	3.08	-- ¹
	05/04/98	2.98	-- ¹
	11/11/98	2.22	-- ¹
	05/20/99	2.60	-- ¹
MW-4	08/19/95	--	2.19
	11/07/95	--	8.43
	05/06/96	3.75	5.97
	11/05/96	2.11	-- ¹
	05/15/97	3.24	-- ¹
	11/12/97	3.11	-- ¹
	05/04/98	3.73	-- ¹
	11/11/98	4.33	-- ¹
	05/20/99	3.90	-- ¹
MW-5	08/19/95	--	2.09
	11/07/95	--	1.79
	05/06/96	2.91	1.80
	11/05/96	1.85	-- ¹
	05/15/97	2.10	-- ¹
	11/12/97	1.98	-- ¹
	05/04/98	1.69	-- ¹
MW-6	05/15/97	2.90	-- ¹
	05/04/98	3.57	-- ¹

Table 2
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-7	05/15/97	2.21	-- ¹
	05/04/98	3.09	-- ¹
MW-8	11/05/96	INACCESSIBLE (PARKED OVER)	
	05/15/97	2.88	-- ¹
	11/12/97	INACCESSIBLE (PARKED OVER)	
	05/04/98	INACCESSIBLE (PARKED OVER)	
	11/11/98	INACCESSIBLE (PARKED OVER)	
	05/20/99	3.55	-- ¹
MW-9	05/06/96	4.23	3.25
	11/05/96	2.98	-- ¹
	05/15/97	3.04	-- ¹
	11/12/97	4.02	-- ¹
	05/04/98	3.41	-- ¹
	11/11/98	5.19	-- ¹
	05/20/99	4.46	-- ¹
MW-10	05/15/97	1.61	-- ¹
	05/04/98	2.85	-- ¹
MW-11	05/15/97	1.68	-- ¹
	05/04/98	2.94	-- ¹
	05/20/99	3.22	-- ¹
MW-12	05/15/97	2.10	-- ¹
	05/04/98	3.41	-- ¹
RW-1	11/07/95	--	2.13

EXPLANATIONS:

Dissolved oxygen concentrations prior to May 4, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = milligrams per liter

-- = Not Measured

¹ Wells were not purged prior to sampling.

Table 3
Product Thickness/Removal Data
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Amount Bailed Product	Amount Bailed Water	Amount Bailed (Product + Water)
MW-5	11/11/1998	9.23	0.37	--	--	0.25 gallons
	02/22/99	7.69	0.25	5 oz.	3 gallons	--
	04/02/99 ^{1,2}	8.19	0.28	9 oz.	20 oz.	29 oz.
	05/04/99	8.44	0.01	--	--	--
	05/20/99	8.73	0.04	--	--	1 oz.
	06/29/99	8.91	0.05	--	--	4 oz.
	07/29/99	9.12	0.07	4 oz.	8 oz.	12 oz.
	08/24/99	9.37	0.09	--	--	4 oz.
	09/27/99	9.51	0.06	--	--	3.5 oz.
	10/28/99 ³	--	0.05	--	--	3.0 oz.
	11/15/99	9.29	Sheen	--	--	16 oz.
	12/20/99	9.14	0.00	-- ⁴	--	<1.0 oz
	01/20/00	9.08	0.00	-- ⁴	--	<1.0 oz
	02/26/00	8.69	0.00	-- ⁴	--	<1.0 oz
	03/31/00	8.48	0.00	-- ⁴	--	<1.0 oz
	04/13/00	8.66	0.00	0.00	0.00	0.00
	05/22/00	9.06	0.00	-- ⁵	--	1.5 oz.
	11/22/00 ⁶	9.24	0.67	15 oz.	3 gallons	3.12 gallons
	02/14/01 ⁷	7.63	0.33	8 oz.	64 oz.	72 oz.
	03/28/01 ⁷	8.82	0.00	-- ⁸	--	20 oz.
	04/28/01 ⁷	8.66	0.00	-- ⁹	--	7 oz.
	05/15/01 ⁷	8.97	0.00	-- ¹⁰	--	6 oz.
	06/29/01 ⁷	8.73	0.00	-- ¹¹	--	3 oz.
	07/17/01 ⁷	8.92	0.02	-- ¹¹	--	3 oz.
	08/30/01 ⁷	8.85	0.00	0.00	0.00	0.00
	09/24/01 ⁷	8.89	0.00	-- ¹²	0.00	0.00
	10/15/01 ⁷	9.11	0.03	4 oz.	2 gallons	2.03 gallons
	11/23/01 ⁷	8.77	0.00	-- ⁴	--	<1.0 oz
	12/10/01 ⁷	8.75	0.00	0.00	0.00	0.00
	01/14/02 ⁷	8.26	0.00	-- ¹²	0.00	0.00
	02/22/02 ⁷	6.30	0.00	-- ¹³	0.00	0.00
	03/11/02 ⁷	6.47	0.00	0.00	0.00	0.00
	04/15/02 ⁷	6.56	0.00	-- ¹²	0.00	0.00
	05/24/02 ⁷	8.32	0.15	4.5 oz. ¹⁴	2.00	2.04
	06/17/02 ⁷	8.41	0.20	5 oz. ¹⁵	1.5 gallons	1.53 gallons
	07/15/02 ⁷	8.63	0.20	3 oz.	2 gallons	2.02 gallons
	08/19/02 ⁷	8.76	0.31	6 oz.	1.5 gallons	1.55 gallons
	09/05/02 ⁷	8.73	0.16	4 oz.	1 gallon	1.03 gallons
	10/07/02 ⁷	8.79	0.09	2 oz.	1 gallon	1.02 gallons
	11/29/02 ⁷	9.18	0.05	2 oz.	0.00	2 oz.

Table 3
Product Thickness/Removal Data
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

EXPLANATIONS:

DTW = Depth to water

(ft.) = Feet

oz. = ounces

-- = Not Measured

- 1 A new skimmer (Petro Trap) was installed.
- 2 Twelve minutes after water/product was bailed, well was monitored again, (DTW = 8.06 ft. and Product Thickness 0.04 ft.).
- 3 Replaced skimmer.
- 4 Less than 1 oz. of product found in skimmer.
- 5 1.5 oz. of product found in skimmer.
- 6 Skimmer not present in well.
- 7 Skimmer was re-installed / skimmer present in well.
- 8 20 oz. of product found in skimmer.
- 9 7 oz. of product found in skimmer.
- 10 6 oz. of product found in skimmer.
- 11 3 oz. of product found in skimmer.
- 12 A few drops of product found in skimmer.
- 13 Approximately 1 oz. of product found in skimmer.
- 14 1.5 oz. of product found in skimmer and 3 oz. of product from well.
- 15 1 oz. of product found in skimmer and 4 oz. of product from well.

Table 4
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 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	05/20/99 ^{1,3}	ND	ND	² 92/47	ND	ND	ND	--	--
	11/15/99 ⁴	ND	ND	7.19	ND	ND	ND	--	--
	05/22/00 ⁴	ND	130	290	ND	ND	ND	--	--
	11/22/00	-- ⁶	-- ⁶	142	ND	ND	ND	--	--
	05/15/01 ⁴	ND ⁵	ND ⁵	374	ND ⁵	ND ⁵	ND ⁵	--	--
	11/23/01 ⁴	<1,400	<57	350	<2.9	<2.9	<2.9	<2.9	<2.9
	05/24/02	<1,000	<200	240	<4.0	<4.0	<4.0	<4.0	<4.0
	11/29/02	<2,500	<500	330	<10	<10	<10	<10	<10
MW-3	05/22/00 ⁴	ND	ND	94	ND	ND	ND	--	--
	11/22/00	-- ⁶	-- ⁶	131	ND	ND	ND	--	--
	05/15/01 ⁴	ND ⁵	ND ⁵	75.5	ND ⁵	ND ⁵	ND ⁵	--	--
	11/23/01	<1,200	79	390	<2.5	<2.5	<2.5	<2.5	<2.5
	05/24/02	<500	<100	73	<2.0	<2.0	<2.0	<2.0	<2.0
	11/29/02	<25,000	<5,000	340	<100	<100	<100	<100	<100
MW-4	05/24/02	<500	<100	3.5	<2.0	<2.0	<2.0	<2.0	<2.0
	11/29/02	<500	<100	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	05/22/00 ⁴	ND ⁵	ND ⁵	21	ND ⁵	ND ⁵	ND ⁵	--	--
MW-8	05/20/99 ^{1,3}	ND	ND	² 12/10	ND	ND	ND	--	--
	11/15/99 ⁴	ND ⁵	ND ⁵	45.1	ND ⁵	ND ⁵	ND ⁵	--	--
	11/29/02	--	--	<2.0	--	--	--	--	--

Table 4
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-9	11/29/02	--	--	<2.0	--	--	--	--	--
MW-10	11/29/02	--	--	<2.0	--	--	--	--	--

Table 4
Groundwater Analytical Results - Oxygenate Compounds
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

EXPLANATIONS:

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

- ¹ Analyzed past hold time (June 9, 1999).
- ² First run MTBE was for qualitative use only.
- ³ Report revised July 6, 1999.
- ⁴ Laboratory report indicates sample was analyzed outside of the EPA recommended holding time.
- ⁵ Detection limit raised. Refer to analytical reports.
- ⁶ Laboratory did not analyze for Ethanol and TBA.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

As requested by Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.

**TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA**

**MONTHLY MONITORING EVENT OF
June 17, 2002**



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 6-17-02
 City: Oakland, CA Sampler: SOE

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.15 ft.
 Depth to Water: 8.41 ft.

Well Condition: OK
 Hydrocarbon Thickness: 0.2 ft.
 Amount Bailed (product/water): 1 ounce skimmer / 4 oz. well / 1.5 gal.

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

_____ 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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Removed one ounce of product from skimmer & 4 oz. of product from well. Dedicated small yellow drum on site.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 6-17-02
 City: Oakland, CA Sampler: _____

Well ID: RW-1 Well Condition: O.K.
 Well Diameter: 6 in. Hydrocarbon Amount Bailed
 Total Depth: 17.38 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 8.18 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: 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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

***TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA***

***MONTHLY MONITORING EVENT
OF July 15, 2002***



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 7-15-02
 City: Oakland, CA Sampler: Joc

Well ID MW-5
 Well Diameter 2 in.
 Total Depth 20.15 ft.
 Depth to Water 8.63 ft.

Well Condition: O.K.
 Hydrocarbon Thickness: 0.2' Amount Bailed 3 ounces / 29.
 (product/water): gal.

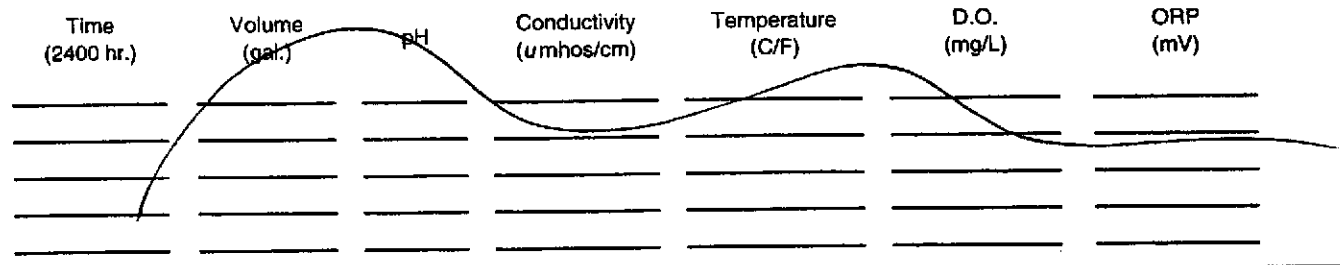
Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

_____ 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.



LABORATORY INFORMATION

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

COMMENTS: No product found in skimmer. Removed 3 ounces of FP from well and placed it inside dedicated drum.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 7-15-02
 City: Oakland, CA Sampler: Joe

Well ID: RW-1 Well Condition: OK
 Well Diameter: 6 in. Hydrocarbon Amount Bailed
 Total Depth: 17.38 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 8.29 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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

***TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA***

***MONTHLY MONITORING EVENT
OF August 8, 2002***



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 180063
 Event Date: 8-19-02
 Sampler: Joe

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.15 ft.
 Depth to Water: 8.76 ft.

Well Condition: O.K.
 Hydrocarbon Thickness: 0.31 ft. Amount Bailed 6 ounces / 1.5 gal.
 (product/water): _____ gal.

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

_____ 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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Product deposited in small dedicated drum.

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 8-19-02
 City: Oakland, CA Sampler: Jo.

Well ID: RW-1 Well Condition: O.K.
 Well Diameter: 6 in. Hydrocarbon Amount Bailed
 Total Depth: 17.38 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 8.44 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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

***TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA***

***MONTHLY MONITORING EVENT OF
September 5, 2002***



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 9-5-02
 City: Oakland, CA Sampler: Joe

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.15 ft.
 Depth to Water: 8.73 ft.

Well Condition: 0.1K
 Hydrocarbon Thickness: 0.16 ft. Amount Bailed 4 ounces/19-
 (product/water): gal.

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

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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Product bailed deposited in small dedicated drum. A few drops of product found in skimmer.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 9.5.02
 City: Oakland, CA Sampler: 502

Well ID: RW-1 Well Condition: 0.1c
 Well Diameter: 6 in. Hydrocarbon Amount Bailed
 Total Depth: 17.38 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 8.47 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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

***TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA***

***MONTHLY MONITORING EVENT
OF October 7, 2002***



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 10-7-02
 City: Oakland, CA Sampler: JOL

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.14 ft.
 Depth to Water: 8.79 ft.

Well Condition: O.K.
 Hydrocarbon Amount Bailed: 2 ounces/19
 Thickness: 0.09 ft. (product/water): gal.

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

_____ 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
	<u>x voa vial</u>	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed product went inside dedicated drum.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 10-7-02
 City: Oakland, CA Sampler: Joc

Well ID: RW-1 Well Condition: O.K.
 Well Diameter: 6 in. Hydrocarbon Amount Bailed
 Total Depth: 17.38 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 8.43 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: 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
	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

***TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA***

***SEMI-ANNUAL MONITORING AND SAMPLING
Event of November 29, 2002***



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 180063
 Event Date: 11-29-02 (inclusive)
 Sampler: Joe

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 19.83 ft.
 Depth to Water: 7.96 ft.
11.87

Date Monitored: 11-29-02 Well Condition: o.k.

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

$xVF \ 0.17 = 2.02 \ x3 \ (\text{case volume}) = \text{Estimated Purge Volume: } 6.5 \ \text{gal.}$

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): 0825 Weather Conditions: clear
 Sample Time/Date: 0850 11-29-02 Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0835</u>	<u>2</u>	<u>7.38</u>	<u>7.79</u>	<u>72.1</u>	_____	_____
<u>0837</u>	<u>4</u>	<u>7.46</u>	<u>7.64</u>	<u>72.1</u>	_____	_____
<u>0839</u>	<u>6.5</u>	<u>7.51</u>	<u>7.66</u>	<u>71.9</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(8015)/BTEX/MTBE(8021)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-2 Date Monitored: 11-29-02 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 19.85 ft.
 Depth to Water: 8.79 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

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

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): _____ 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(8015)/BTEX/MTBE(8021)

COMMENTS: W. only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-3 Date Monitored: 11-29-02 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 22.37 ft.
 Depth to Water: 9.81 ft.
12.56 xVF 0.17 = 2.14 x3 (case volume) = Estimated Purge Volume: 6.5 gal.

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

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): 0915 Weather Conditions: clear
 Sample Time/Date: 0940 11-29-02 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 (umhos/cm) ¹⁰⁰	Temperature (C/E)	D.O. (mg/L)	ORP (mV)
<u>0927</u>	<u>2</u>	<u>7.14</u>	<u>6.78</u>	<u>72.1</u>	_____	_____
<u>0929</u>	<u>4</u>	<u>7.26</u>	<u>6.92</u>	<u>72.5</u>	_____	_____
<u>0931</u>	<u>6.5</u>	<u>7.22</u>	<u>6.81</u>	<u>72.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-4 Date Monitored: 11-29-02 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 20.01 ft.
 Depth to Water: 9.34 ft.
 $10.07 \times VF \ 0.17 = 1.81 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 5.5 \text{ gal.}$

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

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): 1000 Weather Conditions: clear
 Sample Time/Date: 1023 11-29-02 Water Color: clear Odor: slightly milky
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1007</u>	<u>1.5</u>	<u>7.58</u>	<u>8.59</u>	<u>64.6</u>		
<u>1011</u>	<u>3</u>	<u>7.63</u>	<u>9.10</u>	<u>65.1</u>		
<u>1015</u>	<u>5.5</u>	<u>7.68</u>	<u>9.15</u>	<u>65.7</u>		
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.16 ft.
 Depth to Water: 9.18 ft.

Date Monitored: 11-29-02 Well Condition: D.K.

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

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

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: 9.13 ft
 Depth to Water: 9.18 ft
 Hydrocarbon Thickness: 0.05 ft
 Visual Confirmation/Description:
Dark (almost black) product
 Skimmer/Absorbant Sock (circle one)
 Amt Removed from Skimmer: 0 gal
 Amt Removed from Well: 2 ounces gal
 Product Transferred to: overpack drum

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(8015)/BTEX/MTBE(8021)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-6 Date Monitored: 11-29-02 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 19.65 ft.
 Depth to Water: 7.26 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

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

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): _____ 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(8015)/BTEX/MTBE(8021)

COMMENTS: see only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Soe

Well ID: MW-7 Date Monitored: 11-29-02 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 18.40 ft.
 Depth to Water: 8.23 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: _____

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

Start Time (purge): _____ 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(8015)/BTEX/MTBE(8021)

COMMENTS: None

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Sp e

Well ID: MW-8 Date Monitored: 11-29-02 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 21.25 ft.
 Depth to Water: 9.71 ft.
 xVF 0.17 = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

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

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): _____ Weather Conditions: clear
 Sample Time/Date: 1135 11-29-02 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 (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 x vov vial	YES	HCL	STL Pleasanton	TPH-G(8015)/BTEX/MTBE(8021)

COMMENTS: No Purge S.
Well parked over (partially) by a junked car. Barely enough room for well access.
 Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-9 Date Monitored: 11-29-02 Well Condition: P.K.
 Well Diameter: 2 in.
 Total Depth: 21.83 ft.
 Depth to Water: 9.24 ft.
12.59 xVF 0.17 = 2.14 x3 (case volume) = Estimated Purge Volume: 6.5 gal.

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

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): 1050 Weather Conditions: clear
 Sample Time/Date: 1120 11-29-02 Water Color: clear Odor: none
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)
<u>1058</u>	<u>2</u>	<u>7.20</u>	<u>9.10</u>	<u>65.5</u>		
<u>1104</u>	<u>4</u>	<u>7.42</u>	<u>8.02</u>	<u>65.1</u>		
<u>1108</u>	<u>6.5</u>	<u>7.46</u>	<u>7.87</u>	<u>64.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-10
 Well Diameter: 2 in.
 Total Depth: 21.45 ft.
 Depth to Water: 10.11 ft.

Date Monitored: 11-29-02 Well Condition: O.K.

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

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G(8015)/BTEX/MTBE(8021)

COMMENTS: As only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Jvc

Well ID: MW-11 Date Monitored: 11-29-02 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 19.16 ft.
 Depth to Water: 11.27 ft.
7.99 xVF 0.17 = 1.36 x3 (case volume) = Estimated Purge Volume: 4.5 gal.

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

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

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

Start Time (purge): 0726 Weather Conditions: Clear
 Sample Time/Date: 0803 11-29-02 Water Color: clear Odor: none
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0742</u>	<u>1</u>	<u>7.76</u>	<u>9.68</u>	<u>62.8</u>	_____	_____
<u>0745</u>	<u>2</u>	<u>7.28</u>	<u>9.22</u>	<u>63.1</u>	_____	_____
<u>0749</u>	<u>4</u>	<u>7.38</u>	<u>9.35</u>	<u>63.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-12 Date Monitored: 11-29-02 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 17.50 ft.
 Depth to Water: 11.23 ft.
 xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

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

Purge Equipment:
 Disposable Bailor _____
 Stainless Steel Bailor _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailor _____
 Pressure Bailor _____
 Discrete Bailor _____
 Other: _____

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

Start Time (purge): _____ 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(8015)/BTEX/MTBE(8021)

COMMENTS: Microly

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 11-29-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: RW-1 Date Monitored: 11-29-02 Well Condition: O.K.
 Well Diameter: 6 in.
 Total Depth: 17.38 ft.
 Depth to Water: 8.92 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: _____

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

Start Time (purge): _____ 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
RW-1	x voa vial	YES	HCL	STL Pleasanton	TPH-G(8015)/BTEX/MTBE(8021)

COMMENTS: None

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

Tosco Corp./
 Philips 68 Co.
 2000 Crow Canyon Place
 Suite 400
 San Ramon, CA 94583

Facility Number #0746
 Facility Address 3943 BROADWAY, OAKLAND, CA
 Global ID T0600101471 Project 180063.80
 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 AJEMIAN

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 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HYDROCARBONS (B010) EPA 6021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W	HCC	11-29-02	✓													Run 8 Oxy's by 8260 on all 821 MTBE hits.
MW-1	3	/	/	0850	✓													
MW-3	3	/	/	0940	✓													
MW-4	3	/	/	1023	✓													
MW-8	3	/	/	1135	✓													
MW-9	3	/	/	1120	✓													
MW-11	3	/	/	0803	✓													

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

Relinquished By (Signature) <i>[Signature]</i>	Organization	Date/Time 12-29-02	Received By (Signature)	Organization	Date/Time	Iced Y/N Y	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>	Organization	Date/Time 12-02-02	Iced Y/N 100	

Gettler Ryan

December 19, 2002

6747 Sierra Court Suite J
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180063.80

Project: Tosco #0746

Site: 3943 Broadway
Oakland, CA

RECEIVED

DEC 19 2002

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Dear Ms. Harding,

Attached is our report for your samples received on 12/03/2002 10:10

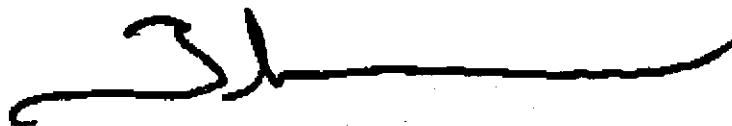
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/17/2003 unless you have requested otherwise.

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

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

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

Project: 180063.80

Tosco #0746

Received: 12/03/2002 10:10

Site: 3943 Broadway
Oakland, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	11/29/2002	Water	1
MW-1	11/29/2002 08:50	Water	2
MW-3	11/29/2002 09:40	Water	3
MW-4	11/29/2002 10:23	Water	4
MW-8	11/29/2002 11:35	Water	5
MW-9	11/29/2002 11:20	Water	6
MW-11	11/29/2002 08:03	Water	7

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: 180063.80

Tosco #0746

Received: 12/03/2002 10:10

Site: 3943 Broadway

Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-12-0041 - 1
Sampled:	11/29/2002	Extracted:	12/11/2002 17:53
Matrix:	Water	QC Batch#:	2002/12/11-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/11/2002 17:53	
Benzene	ND	0.50	ug/L	1.00	12/11/2002 17:53	
Toluene	0.75	0.50	ug/L	1.00	12/11/2002 17:53	
Ethylbenzene	ND	0.50	ug/L	1.00	12/11/2002 17:53	
Total xylenes	ND	1.0	ug/L	1.00	12/11/2002 17:53	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/11/2002 17:53	
Surrogates(s)						
1,2-Dichloroethane-d4	89.9	76-114	%	1.00	12/11/2002 17:53	
Toluene-d8	98.8	88-110	%	1.00	12/11/2002 17:53	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Dublin, CA 94568

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Project: 180063.80

Tosco #0746

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Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2002-12-0041 - 2
Sampled:	11/29/2002 08:50	Extracted:	12/12/2002 17:14
Matrix:	Water	QC Batch#:	2002/12/12-01.27
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	12/12/2002 17:14	
Benzene	ND	2.5	ug/L	5.00	12/12/2002 17:14	
Toluene	ND	2.5	ug/L	5.00	12/12/2002 17:14	
Ethylbenzene	ND	2.5	ug/L	5.00	12/12/2002 17:14	
Total xylenes	ND	5.0	ug/L	5.00	12/12/2002 17:14	
tert-Butyl alcohol (TBA)	ND	500	ug/L	5.00	12/12/2002 17:14	
Methyl tert-butyl ether (MTBE)	330	10	ug/L	5.00	12/12/2002 17:14	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	12/12/2002 17:14	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	12/12/2002 17:14	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	12/12/2002 17:14	
1,2-DCA	ND	10	ug/L	5.00	12/12/2002 17:14	
EDB	ND	10	ug/L	5.00	12/12/2002 17:14	
Ethanol	ND	2500	ug/L	5.00	12/12/2002 17:14	
Surrogates(s)						
1,2-Dichloroethane-d4	91.9	76-114	%	5.00	12/12/2002 17:14	
Toluene-d8	97.2	88-110	%	5.00	12/12/2002 17:14	

Gas/BTEX Fuel Oxygenates by 8260B

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Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-3	Lab ID: 2002-12-0041 - 3
Sampled: 11/29/2002 09:40	Extracted: 12/12/2002 16:52
Matrix: Water	QC Batch#: 2002/12/12-01.27
Analysis Flag: 0 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5300	2500	ug/L	50.00	12/12/2002 16:52	
Benzene	ND	25	ug/L	50.00	12/12/2002 16:52	
Toluene	ND	25	ug/L	50.00	12/12/2002 16:52	
Ethylbenzene	65	25	ug/L	50.00	12/12/2002 16:52	
Total xylenes	ND	50	ug/L	50.00	12/12/2002 16:52	
tert-Butyl alcohol (TBA)	ND	5000	ug/L	50.00	12/12/2002 16:52	
Methyl tert-butyl ether (MTBE)	340	100	ug/L	50.00	12/12/2002 16:52	
Di-isopropyl Ether (DIPE)	ND	100	ug/L	50.00	12/12/2002 16:52	
Ethyl tert-butyl ether (ETBE)	ND	100	ug/L	50.00	12/12/2002 16:52	
tert-Amyl methyl ether (TAME)	ND	100	ug/L	50.00	12/12/2002 16:52	
1,2-DCA	ND	100	ug/L	50.00	12/12/2002 16:52	
EDB	ND	100	ug/L	50.00	12/12/2002 16:52	
Ethanol	ND	25000	ug/L	50.00	12/12/2002 16:52	
Surrogates(s)						
1,2-Dichloroethane-d4	90.0	76-114	%	50.00	12/12/2002 16:52	
Toluene-d8	98.9	88-110	%	50.00	12/12/2002 16:52	

Gas/BTEX Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2002-12-0041 - 4
Sampled:	11/29/2002 10:23	Extracted:	12/12/2002 16:31
Matrix:	Water	QC Batch#:	2002/12/12-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/12/2002 16:31	
Benzene	ND	0.50	ug/L	1.00	12/12/2002 16:31	
Toluene	ND	0.50	ug/L	1.00	12/12/2002 16:31	
Ethylbenzene	ND	0.50	ug/L	1.00	12/12/2002 16:31	
Total xylenes	ND	1.0	ug/L	1.00	12/12/2002 16:31	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	12/12/2002 16:31	
Methyl tert-butyl ether (MTBE)	2.6	2.0	ug/L	1.00	12/12/2002 16:31	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/12/2002 16:31	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/12/2002 16:31	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/12/2002 16:31	
1,2-DCA	ND	2.0	ug/L	1.00	12/12/2002 16:31	
EDB	ND	2.0	ug/L	1.00	12/12/2002 16:31	
Ethanol	ND	500	ug/L	1.00	12/12/2002 16:31	
Surrogates(s)						
1,2-Dichloroethane-d4	86.3	76-114	%	1.00	12/12/2002 16:31	
Toluene-d8	97.1	88-110	%	1.00	12/12/2002 16:31	

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Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-8	Lab ID: 2002-12-0041 - 5
Sampled: 11/29/2002 11:35	Extracted: 12/11/2002 20:02
Matrix: Water	QC Batch#: 2002/12/11-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/11/2002 20:02	
Benzene	ND	0.50	ug/L	1.00	12/11/2002 20:02	
Toluene	ND	0.50	ug/L	1.00	12/11/2002 20:02	
Ethylbenzene	ND	0.50	ug/L	1.00	12/11/2002 20:02	
Total xylenes	ND	1.0	ug/L	1.00	12/11/2002 20:02	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/11/2002 20:02	
Surrogates(s)						
1,2-Dichloroethane-d4	91.5	76-114	%	1.00	12/11/2002 20:02	
Toluene-d8	98.2	88-110	%	1.00	12/11/2002 20:02	

Gas/BTEX Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-9	Lab ID:	2002-12-0041 - 6
Sampled:	11/29/2002 11:20	Extracted:	12/12/2002 16:09
Matrix:	Water	QC Batch#:	2002/12/12-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/12/2002 16:09	
Benzene	ND	0.50	ug/L	1.00	12/12/2002 16:09	
Toluene	ND	0.50	ug/L	1.00	12/12/2002 16:09	
Ethylbenzene	ND	0.50	ug/L	1.00	12/12/2002 16:09	
Total xylenes	ND	1.0	ug/L	1.00	12/12/2002 16:09	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/12/2002 16:09	
Surrogates(s)						
1,2-Dichloroethane-d4	91.9	76-114	%	1.00	12/12/2002 16:09	
Toluene-d8	96.4	88-110	%	1.00	12/12/2002 16:09	

Gas/BTEX Fuel Oxygenates by 8260B

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Site: 3943 Broadway
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Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-11	Lab ID: 2002-12-0041 - 7
Sampled: 11/29/2002 08:03	Extracted: 12/12/2002 15:48
Matrix: Water	QC Batch#: 2002/12/12-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/12/2002 15:48	
Benzene	ND	0.50	ug/L	1.00	12/12/2002 15:48	
Toluene	ND	0.50	ug/L	1.00	12/12/2002 15:48	
Ethylbenzene	ND	0.50	ug/L	1.00	12/12/2002 15:48	
Total xylenes	ND	1.0	ug/L	1.00	12/12/2002 15:48	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/12/2002 15:48	
Surrogates(s)						
1,2-Dichloroethane-d4	87.6	76-114	%	1.00	12/12/2002 15:48	
Toluene-d8	98.1	88-110	%	1.00	12/12/2002 15:48	

Gas/BTEX Fuel Oxygenates by 8260B

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Tosco #0746

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Batch QC Report					
Prep(s): 5030B	Water			Test(s): 8260B	
Method Blank				QC Batch # 2002/12/11-01.27	
MB: 2002/12/11-01.27-006				Date Extracted: 12/11/2002 10:44	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/11/2002 10:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/11/2002 10:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/11/2002 10:44	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/11/2002 10:44	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/11/2002 10:44	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/11/2002 10:44	
1,2-DCA	ND	0.5	ug/L	12/11/2002 10:44	
EDB	ND	0.5	ug/L	12/11/2002 10:44	
Benzene	ND	0.5	ug/L	12/11/2002 10:44	
Toluene	ND	0.5	ug/L	12/11/2002 10:44	
Ethylbenzene	ND	0.5	ug/L	12/11/2002 10:44	
Total xylenes	ND	1.0	ug/L	12/11/2002 10:44	
Ethanol	ND	25	ug/L	12/11/2002 10:44	
Surrogates(s)					
1,2-Dichloroethane-d4	84.9	76-114	%	12/11/2002 10:44	
Toluene-d8	100.4	88-110	%	12/11/2002 10:44	

Gas/BTEX Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/12/12-01.27-016

Water

Test(s): 8260FAB

QC Batch # 2002/12/12-01.27

Date Extracted: 12/12/2002 11:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/12/2002 11:58	
Benzene	ND	0.5	ug/L	12/12/2002 11:58	
Toluene	ND	0.5	ug/L	12/12/2002 11:58	
Ethylbenzene	ND	0.5	ug/L	12/12/2002 11:58	
Total xylenes	ND	1.0	ug/L	12/12/2002 11:58	
tert-Butyl alcohol (TBA)	ND	100	ug/L	12/12/2002 11:58	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/12/2002 11:58	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/12/2002 11:58	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/12/2002 11:58	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/12/2002 11:58	
1,2-DCA	ND	2.0	ug/L	12/12/2002 11:58	
EDB	ND	2.0	ug/L	12/12/2002 11:58	
Ethanol	ND	500	ug/L	12/12/2002 11:58	
Surrogates(s)					
1,2-Dichloroethane-d4	87.6	76-114	%	12/12/2002 11:58	
Toluene-d8	99.2	88-110	%	12/12/2002 11:58	

Severn Trent Laboratories, Inc.

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12/16/2002 15:08

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Gas/BTEX Fuel Oxygenates by 8260B

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Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
Laboratory Control Spike			Water			QC Batch # 2002/12/11-01.27				
LCS	2002/12/11-01.27-004		Extracted: 12/11/2002			Analyzed: 12/11/2002 09:59				
LCSD	2002/12/11-01.27-005		Extracted: 12/11/2002			Analyzed: 12/11/2002 10:23				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.0	27.6	25.0	96.0	110.4	14.0	65-165	20		
Benzene	25.1	24.3	25.0	100.4	97.2	3.2	69-129	20		
Toluene	25.0	23.4	25.0	100.0	93.6	6.6	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	429	439	500	85.8	87.8		76-114			
Toluene-d8	457	485	500	91.4	97.0		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Site: 3943 Broadway
Oakland, CA

Batch QC Report										
Prep(s): 5030B								Test(s): 8260B		
Laboratory Control Spike				Water			QC Batch # 2002/12/12-01.27			
LCS	2002/12/12-01.27-004			Extracted: 12/12/2002			Analyzed: 12/12/2002 11:09			
LCSD	2002/12/12-01.27-005			Extracted: 12/12/2002			Analyzed: 12/12/2002 11:36			
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	28.6	29.9	25.0	114.4	119.6	4.4	65-165	20		
Benzene	26.4	25.6	25.0	105.6	102.4	3.1	69-129	20		
Toluene	25.5	24.7	25.0	102.0	98.8	3.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	439	442	500	87.8	88.4		76-114			
Toluene-d8	512	490	500	102.4	98.0		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Matrix Spike (MS / MSD)	Water		QC Batch # 2002/12/11-01.27
MW-1 >> MS			Lab ID: 2002-12-0041 - 002
MS: 2002/12/11-01.27-024	Extracted: 12/11/2002		Analyzed: 12/11/2002 18:36
			Dilution: 1.00
MSD: 2002/12/11-01.27-025	Extracted: 12/11/2002		Analyzed: 12/11/2002 18:58
			Dilution: 1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.0	24.9	ND	25.0	100.0	99.6	0.4	69-129	20		
Toluene	24.5	24.0	ND	25.0	98.0	96.0	2.1	70-130	20		
Methyl tert-butyl ether	404	250	375	25.0	116.0	-500.0	-320	65-165	20		msl
Surrogate(s)											
1,2-Dichloroethane-d4	455	446		500	90.9	89.2		76-114			
Toluene-d8	486	495		500	97.2	99.0		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Matrix Spike (MS / MSD)	Water		QC Batch # 2002/12/12-01.27
MW-11 >> MS			Lab ID: 2002-12-0041 - 007
MS: 2002/12/12-01.27-014	Extracted: 12/12/2002		Analyzed: 12/12/2002 15:05
			Dilution: 1.00
MSD: 2002/12/12-01.27-015	Extracted: 12/12/2002		Analyzed: 12/12/2002 15:26
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	24.1	24.7	ND	25.0	96.4	98.8	2.5	69-129	20		
Toluene	23.4	24.0	ND	25.0	93.6	96.0	2.5	70-130	20		
Methyl tert-butyl ether	23.3	22.6	ND	25.0	93.2	90.4	3.1	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	441	434		500	88.1	86.8		76-114			
Toluene-d8	482	485		500	96.3	97.0		88-110			

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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

msl

Analyte MS/MSD recoveries were out of QC limits due to Parent sample target analyte concentration exceeding the spiked amount by greater than 4X.