



GETTLER-RYAN INC.

Ro 231

TRANSMITTAL

February 25, 2003

G-R #180066

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

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

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

Alameda County
MAR 14 2003
Environmental Health

RE: Tosco (Unocal) Service Station
#0752
800 Harrison Street
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 19, 2003	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of January 18, 2003

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **March 11, 2003**, this report will be distributed to the following:

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

Enclosure

trans/0752-DBD



GETTLER-RYAN INC.

February 19, 2003
G-R Job #180066

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

RE: First Semi-Annual Event of January 18, 2003
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #0752
800 Harrison Street
Oakland, California

Alameda County
MAR 14 2003
Environmental Health

Dear Mr. De Witt:

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

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

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

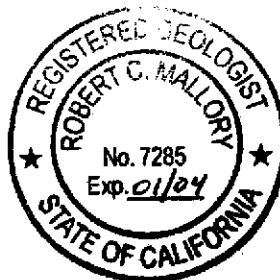
Sincerely,

Deanna L. Harding
- FOR -

Deanna L. Harding
Project Coordinator

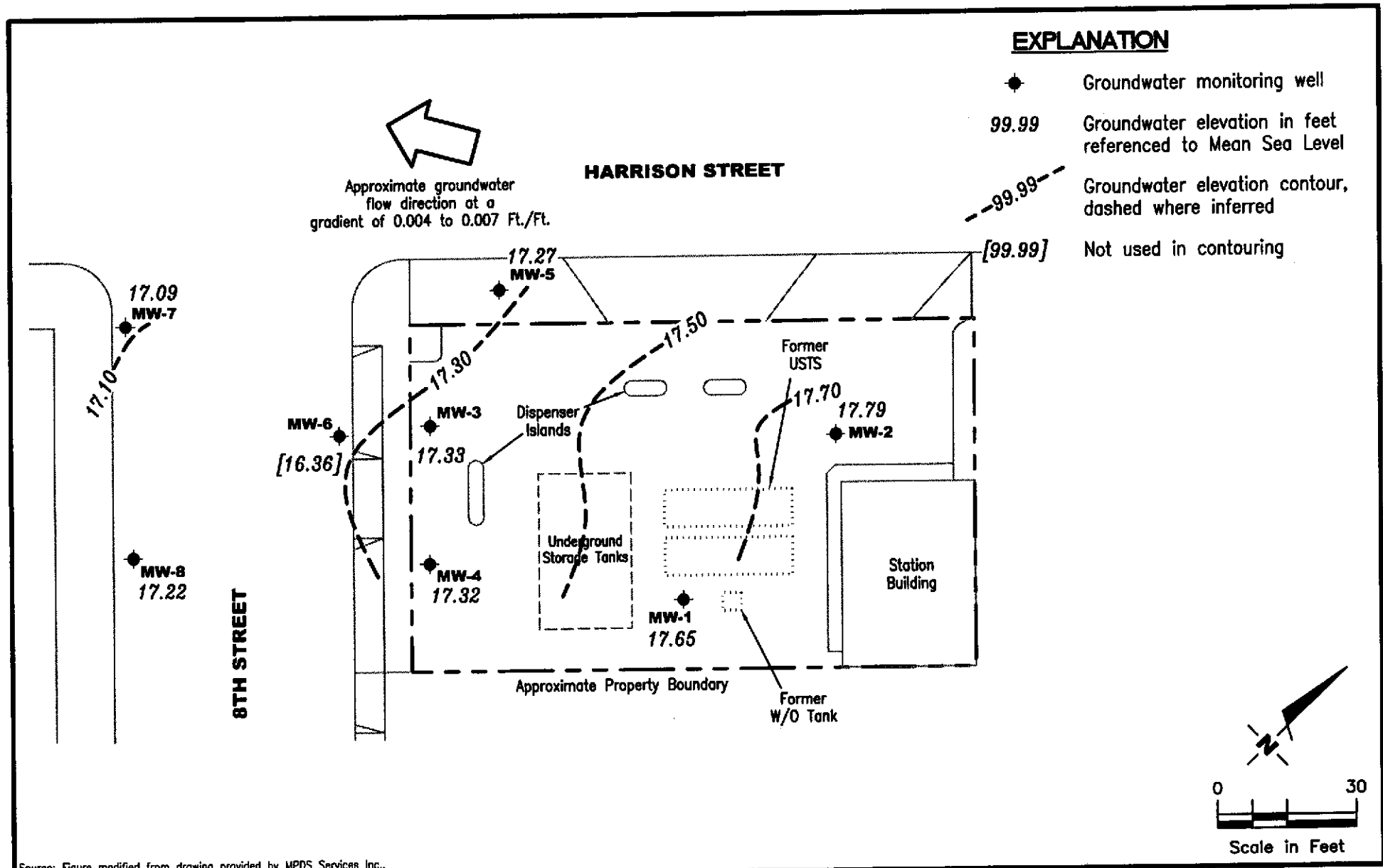
Robert C. Mallory

Robert C. Mallory
Registered Geologist, No. 7285



- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Table 3: Groundwater Analytical Results
- Table 4: Groundwater Analytical Results
- Table 5: Dissolved Oxygen Concentrations
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

0752.qml



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

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

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

FIGURE

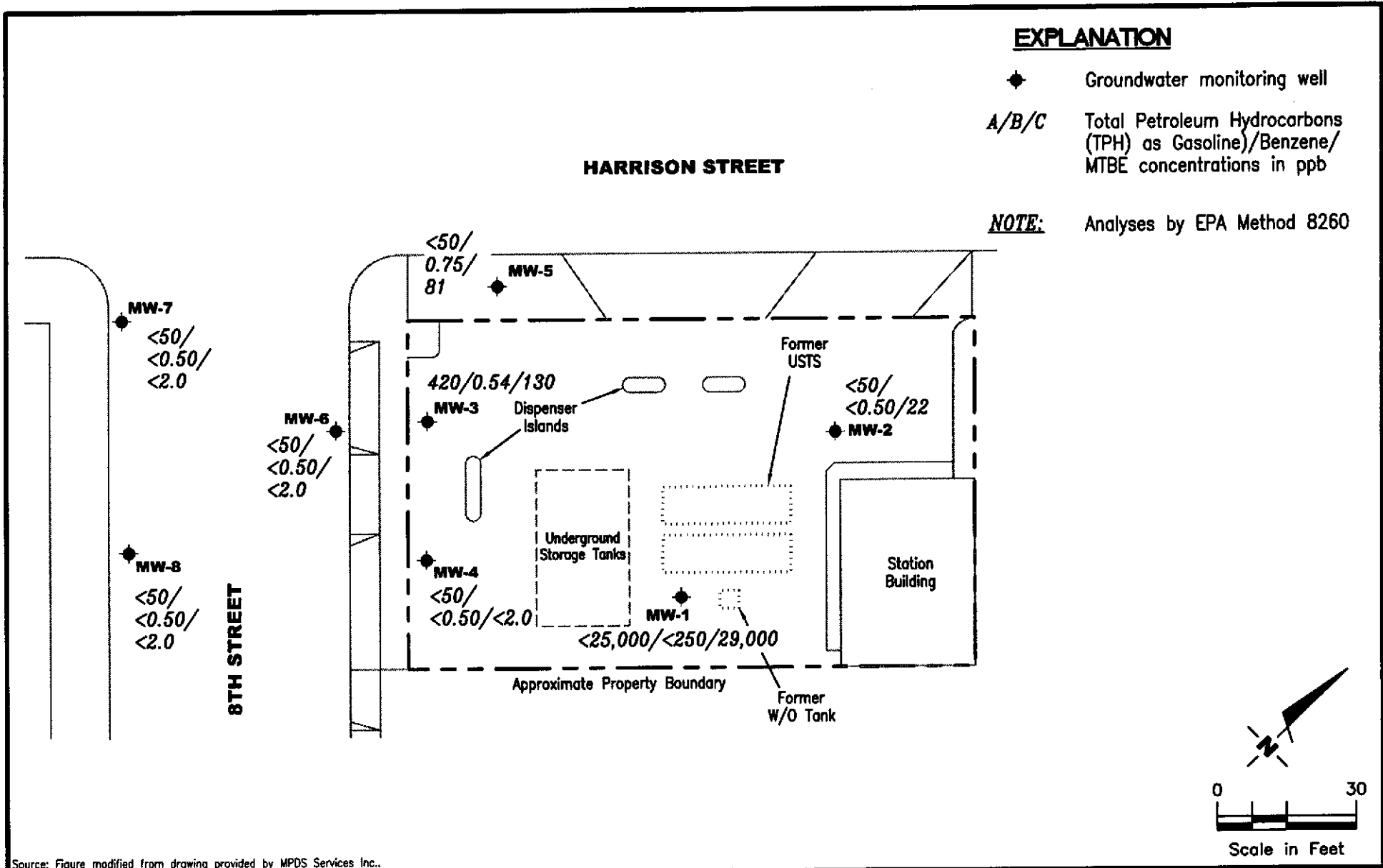
1

PROJECT NUMBER
 180066

REVIEWED BY

DATE
 January 18, 2003

REVISED DATE



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

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

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

FIGURE

2

PROJECT NUMBER
180066

REVIEWED BY

DATE
January 18, 2003

REVISED DATE

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-1	06/05/91	--	13.5-33.5	--	ND	47	ND	ND	ND	ND	--	7.8	2.9	1.3
	09/30/91	--		--	ND	ND	ND	ND	ND	ND	--	--	--	--
	12/30/91	--		--	ND	ND	ND	ND	ND	ND	--	6.4	2.1	0.9
	04/02/92	--		--	94	ND	ND	ND	ND	ND	--	7.1	2.6	1.4
	06/30/92	--		--	120	ND	ND	ND	ND	ND	--	9.5	2.2	1.3
	09/15/92	--		--	ND	76	1.0	ND	ND	ND	--	12	2.2	1.3
	12/21/92	21.17		13.77	ND	95	0.69	ND	ND	1.0	--	12	1.4	0.83
34.94	04/28/93 ¹	--		--	470 ²	920	3.1	2.3	1.2	9.7	--	12	0.89	0.85
	07/23/93	20.13		14.81	ND	ND	0.5	0.66	ND	ND	--	16	1.3	0.91
34.69	10/05/93	20.30		14.39	57 ³	92 ⁵	1.5	ND	ND	0.72	--	13	1.3	0.66
	01/03/94 ⁶	20.52		14.17	ND	ND	ND	ND	ND	ND	--	18	1.4	0.93
	04/02/94	20.16		14.53	ND	ND	ND	ND	ND	ND	--	15	1.1	0.68
	07/05/94	19.27		15.42	--	250	4.8	13	1.2	7.3	--	--	--	--
	10/06/94	20.87		13.82	--	540	1.4	ND	0.66	11	--	--	--	--
	01/02/95	19.67		15.02	--	140	ND	ND	ND	ND	--	--	--	--
	04/03/95	17.61		17.08	--	580	3.6	0.75	ND	4.0	--	--	--	--
	07/14/95	18.58		16.11	--	260	2.1	ND	ND	1.2	--	--	--	--
	10/10/95	19.60		15.09	--	220	2.0	ND	25	5.6	29	--	--	--
	01/03/96	19.69		15.00	--	190	2.4	ND	0.71	1.2	--	--	--	--
	04/10/96	17.65		17.04	--	540	8.9	1.7	1.5	7.4	50	--	--	--
	07/09/96	18.52		16.17	--	490	3.0	1.4	1.3	2.5	150	--	--	--
	01/24/97	17.72		16.97	--	760	27	0.89	5.2	10	510	--	--	--
	07/23/97	19.42		15.27	--	ND	ND	ND	ND	ND	550	--	--	--
NP	01/26/98	17.46		17.23	--	1,800 ⁸	ND ⁹	ND ⁹	ND ⁹	ND ⁹	4,800	--	--	--
NP	07/03/98	18.61		16.08	--	ND ⁹	ND ⁹	ND ⁹	ND ⁹	ND ⁹	1,800	--	--	--
	01/14/99	18.92		15.77	--	83 ¹⁰	ND	ND	ND	ND	230	--	--	--
	07/15/99	17.84		16.85	--	110	ND	ND	ND	1.0	290	--	--	--
	01/07/00	19.13		15.56	--	ND	ND	ND	ND	ND	260	--	--	--
	07/19/00	20.27		14.42	--	ND	ND	ND	ND	ND	648	--	--	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-1	01/02/01	20.04	13.5-33.5	14.65	--	ND	ND	ND	ND	ND	119	--	--	--
(cont)	05/23/01	18.27		16.42	--	84 ¹²	ND	ND	ND	ND	760	--	--	--
	07/30/01	18.56		16.13	--	<50	<0.50	<0.50	<0.50	<0.50	350	--	--	--
	10/15/01	18.72		15.97	--	96 ¹²	<0.50	<0.50	<0.50	<0.50	160	--	--	--
	01/14/02	16.78		17.91	--	450 ¹⁵	<2.5	<2.5	<2.5	3.3	4,100	--	--	--
	04/15/02	17.35		17.34	--	<1,000	<10	<10	<10	<10	10,000	--	--	--
	07/15/02 ¹⁷	17.63		17.06	--	2,100 ¹⁸	<10	<10	<10	<20	2,100	--	--	--
	01/18/03 ¹⁷	17.04		17.65	--	<25,000	<250	<250	<250	<500	29,000	--	--	--
MW-2	06/05/91	--	15-33	--	--	49	ND	ND	ND	ND	--	--	--	--
	09/30/91	--		--	--	130	18	0.53	14	9.6	--	--	--	--
	12/30/91	--		--	--	91	16	0.89	11	1.9	--	--	--	--
	04/02/92	--		--	--	88	12	0.32	6.3	7.2	--	--	--	--
	06/30/92	--		--	--	76	9.3	0.76	4.8	6.9	--	--	--	--
	09/15/92	--		--	--	1,300	91	5.7	80	110	--	--	--	--
34.97	12/21/92	20.85		14.12	--	960	97	3.2	74	96	--	--	--	--
	04/28/93	--		--	--	1,300	76	1.9	130	87	--	--	--	--
	07/23/93	19.81		15.16	--	66	1.8	ND	2.5	2.0	--	--	--	--
34.72	10/05/93	19.95		14.77	--	120	12	ND	2.1	12	--	--	--	--
	01/03/94	20.21		14.51	--	260	25	ND	5.5	26	--	--	--	--
	04/02/94	19.88		14.84	--	ND	0.65	ND	ND	0.99	--	--	--	--
	07/05/94	19.07		15.65	--	160	16	ND	0.73	10	--	--	--	--
	10/06/94	20.55		14.17	--	170	15	ND	1.4	11	--	--	--	--
	01/02/95	19.25		15.47	--	190	27	ND	0.95	11	--	--	--	--
	04/03/95	17.49		17.23	--	2,400	65	6.6	19	63	--	--	--	--
	07/14/95	18.30		16.42	--	750	270	ND	ND	13	--	--	--	--
	10/10/95	19.25		15.47	--	50	1.6	ND	ND	ND	200	--	--	--
	01/03/96	19.40		15.32	--	ND	ND	ND	ND	ND	--	--	--	--

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WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-2	04/10/96	17.35	15-33	17.37	--	300	42	ND	2.4	9.0	620	--	--	--
(cont)	07/09/96	18.22		16.50	--	760	230	ND	1.3	2.4	1,500	--	--	--
	01/24/97	17.59		17.13	--	2,900	400	350	190	720	1,300	--	--	--
	07/23/97	19.13		15.59	--	ND	ND	ND	ND	ND	65	--	--	--
NP	01/26/98	17.12		17.60	--	ND	ND	ND	ND	0.58	13	--	--	--
NP	07/03/98	18.20		16.52	--	140	26	ND	0.95	5.0	330	--	--	--
	01/14/99	18.56		16.16	--	ND	0.54	ND	ND	ND	350	--	--	--
	07/15/99	17.39		17.33	--	ND	0.88	ND	ND	ND	39	--	--	--
	01/07/00	18.78		15.94	--	ND	ND	ND	ND	ND	24	--	--	--
	07/19/00	19.68		15.04	--	ND	1.45	ND	ND	ND	117	--	--	--
	01/02/01	19.73		14.99	--	ND	ND	ND	ND	ND	11.4	--	--	--
	05/23/01	18.16		16.56	--	ND	ND	ND	ND	ND	33	--	--	--
	07/30/01	18.34		16.38	--	<50	<0.50	<0.50	<0.50	<0.50	67	--	--	--
	10/15/01	18.52		16.20	--	<50	<0.50	<0.50	<0.50	<0.50	31	--	--	--
	01/14/02	16.72		18.00	--	<50	<0.50	<0.50	<0.50	0.56	11	--	--	--
	04/15/02	17.26		17.46	--	<50	<0.50	<0.50	<0.50	<0.50	110	--	--	--
	07/15/02 ¹⁷	17.46		17.26	--	270	21	<0.50	3.8	4.0	73	--	--	--
	01/18/03 ¹⁷	16.93		17.79	--	<50	<0.50	<0.50	<0.50	<1.0	22	--	--	--
MW-3	06/05/91	--	15-33	--	--	5,800	1,200	40	140	97	--	--	--	--
	09/30/91	--		--	--	6,800	1,400	130	290	240	--	--	--	--
	12/30/91	--		--	--	7,200	2,100	690	410	550	--	--	--	--
	04/02/92	--		--	--	8,000	1,400	200	300	310	--	--	--	--
	06/30/92	--		--	--	8,900	1,900	210	430	550	--	--	--	--
	09/15/92	--		--	--	10,000	1,900	330	400	580	--	--	--	--
33.39	12/21/92	20.02		13.37	--	8,500	1,500	150	310	330	--	--	--	--

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 Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-3	04/28/93	--	15-33	--	--	2,600	220	7.6	41	27	--	--	--	--
(cont)	07/23/93	19.00		14.39	--	4,400	660	26	160	82	--	--	--	--
33.14	10/05/93	19.20		13.94	--	9,200	720	88	140	140	--	--	--	--
	01/03/94	19.40		13.74	--	4,900	830	100	170	150	--	--	--	--
	04/02/94	19.01		14.13	--	6,000	800	30	140	110	--	--	--	--
	07/05/94	18.14		15.00	--	25,000 ⁵	ND	ND	ND	ND	--	--	--	--
	10/06/94	19.73		13.41	--	49,000 ⁴	1,300	200	280	300	--	--	--	--
	01/02/95	18.36		14.78	--	480	1.6	ND	1.4	ND	--	--	--	--
	04/03/95	16.38		16.76	--	8,100 ⁵	65	ND	ND	ND	--	--	--	--
	07/14/95	17.49		15.65	--	ND	1,300	ND	ND	ND	--	--	--	--
	10/10/95	18.50		14.64	--	3,100	1,400	36	50	53	190,000	--	--	--
	01/03/96 ⁷	18.54		14.60	--	ND	2,300	110	150	140	--	--	--	--
	04/10/96	16.40		16.74	--	940	38	33	39	47	69,000	--	--	--
	07/09/96	17.43		15.71	--	ND	2,000	ND	150	160	140,000	--	--	--
	01/24/97	16.57		16.57	--	540	8.0	ND	11	9.9	45	--	--	--
	07/23/97	18.38		14.76	--	7,400	1,900	180	140	340	45,000	--	--	--
NP	01/26/98	16.22		16.92	--	250	2.2	1.9	0.87	1.9	4.0	--	--	--
NP	07/03/98	17.46		15.68	--	230	1.8	2.5	1.5	3.4	6.3	--	--	--
	01/14/99	17.73		15.41	--	400 ¹⁰	8.2	2.7	0.90	5.9	140	--	--	--
	07/15/99	16.58		16.56	--	290 ¹⁰	3.3	3.6	1.7	2.5	13	--	--	--
	01/07/00	17.84		15.30	--	ND ⁹	890	91	100	480	20,000	--	--	--
	07/19/00	18.92		14.22	--	354 ¹²	3.87	2.61	0.646	ND	13.7	--	--	--
	01/02/01	19.07		14.07	--	464 ¹²	ND	3.69	3.91	ND	21.1	--	--	--
	05/23/01	17.12		16.02	--	420 ¹¹	7.6	3.1	3.0	5.1	1,900	--	--	--
	07/30/01	17.38		15.76	--	290 ¹²	4.6	4.1	<0.50	3.4	23	--	--	--
	10/15/01	17.61		15.53	--	400 ¹²	<0.50	<0.50	<0.50	<0.50	13	--	--	--
	01/14/02	15.53		17.61	--	130 ¹⁶	0.50	0.61	1.1	<0.50	9.9	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-3	04/15/02	16.12	15-33	17.02	--	280 ¹¹	9.9	1.6	3.3	6.8	1,400	--	--	--
(cont)	07/15/02 ¹⁷	16.48		16.66	--	64	<0.50	<0.50	<0.50	<1.0	33	--	--	--
	01/18/03 ¹⁷	15.81		17.33	--	420	0.54	<0.50	<0.50	<1.0	130	--	--	--
MW-4	10/19/92	--	15-33	--	--	480	0.51	2.1	2.8	6.8	--	--	--	--
33.12	12/21/92	19.73		13.39	--	220 ⁴	ND	ND	0.97	0.74	--	--	--	--
	04/28/93	--		--	--	ND	ND	ND	ND	ND	--	--	--	--
	07/23/93	18.72		14.40	--	85 ⁴	ND	ND	ND	ND	--	--	--	--
32.71	10/05/93	18.74		13.97	--	130 ⁵	ND	ND	ND	ND	--	--	--	--
	01/03/94	18.93		13.78	--	210	ND	ND	0.76	1.6	240	9.0	1.0	ND
	04/02/94	18.53		14.18	--	89	ND	ND	ND	ND	--	--	--	--
	07/05/94	17.67		15.04	--	190 ⁵	ND	ND	ND	ND	--	--	--	--
	10/06/94	19.25		13.46	--	170	0.85	ND	ND	0.74	--	--	--	--
	01/02/95	17.75		14.96	--	ND	ND	ND	ND	ND	--	--	--	--
	04/03/95	15.87		16.84	--	98 ⁵	ND	ND	ND	ND	--	--	--	--
	07/14/95	17.01		15.70	--	ND	ND	ND	ND	ND	--	--	--	--
	10/10/95	18.03		14.68	--	ND	ND	ND	ND	ND	120	--	--	--
	01/03/96 ⁷	18.05		14.66	--	ND	ND	ND	ND	ND	--	--	--	--
	04/10/96	16.00		16.71	--	ND	ND	ND	ND	ND	240	--	--	--
	07/09/96	16.96		15.75	--	ND	ND	ND	ND	ND	480	--	--	--
	01/24/97	16.04		16.67	--	ND	ND	ND	ND	ND	270	--	--	--
	07/23/97	17.87		14.84	--	ND	ND	ND	ND	ND	460	--	--	--
NP	01/26/98	16.05		16.66	--	ND	ND	ND	ND	ND	17	--	--	--
NP	07/03/98	16.95		15.76	--	ND	ND	ND	ND	ND	3.8	--	--	--
	01/14/99	17.34		15.37	--	ND	ND	ND	ND	ND	4,600	--	--	--
	07/15/99	16.36		16.35	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/07/00	17.81		14.90	--	ND	ND	ND	ND	ND	450	--	--	--
	07/19/00	18.94		13.77	--	ND	ND	ND	ND	ND	ND	--	--	--

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MW-4	01/02/01	18.85	15-33	13.86	--	ND	ND	ND	ND	ND	ND	--	--	--
(cont)	05/23/01	16.82		15.89	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	16.88		15.83	--	<50	<0.50	<0.50	<0.50	<0.50	4.9	--	--	--
	10/15/01	17.08		15.63	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--
	01/14/02	14.97		17.74	--	<50	<0.50	<0.50	<0.50	<0.50	30	--	--	--
	04/15/02	15.48		17.23	--	<50	<0.50	<0.50	<0.50	<0.50	180	--	--	--
	07/15/02 ¹⁷	15.90		16.81	--	<50	<0.50	<0.50	<0.50	<1.0	50	--	--	--
	01/18/03 ¹⁷	15.39		17.32	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	--	--	--
MW-5	10/19/92	--	15-32	--	--	2,700	61	5.0	100	61	--	--	--	--
33.25	12/21/92	19.75		13.50	--	1,700	51	4.7	83	34	--	--	--	--
	04/28/93	--		--	--	6,700	200	190	250	430	--	--	--	--
	07/23/93	18.74		14.51	--	2,000	122	8.0	68	47	--	--	--	--
32.95	10/05/93	18.83		14.12	--	1,700	70	6.2	54	40	--	--	--	--
	01/03/94	19.05		13.90	--	1,500	44	ND	42	46	--	--	--	--
	04/02/94	18.68		14.27	--	1,800	46	5.1	38	35	--	--	--	--
	07/05/94	17.90		15.05	--	2,200	97	8.4	37	36	--	--	--	--
	10/06/94	19.37		13.58	--	1,600	79	5.7	28	22	--	--	--	--
	01/02/95	17.92		15.03	--	1,700	50	8.6	30	28	--	--	--	--
	04/03/95	16.15		16.80	--	5,400 ⁵	190	240	170	420	--	--	--	--
	07/14/95	17.18		15.77	--	3,800	210	100	130	190	--	--	--	--
	10/10/95	18.15		14.80	--	1,300	92	14	15	39	1,100	--	--	--
	01/03/96 ⁷	18.20		14.75	--	630	53	4.4	8.3	13	--	--	--	--
	04/10/96	16.05		16.90	--	500	25	18	7.0	20	640	--	--	--
	07/09/96	17.11		15.84	--	1,000	44	20	10	34	150	--	--	--
	01/24/97	16.36		16.59	--	4,000	190	400	160	430	600	--	--	--
	07/23/97	18.08		14.87	--	1,700	200	23	18	45	2,500	--	--	--
NP	01/26/98	16.27		16.68	--	ND	ND	ND	ND	ND	ND	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-5 (cont)	NP 07/03/98	17.27	15-32	15.68	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	17.55		15.40	--	330	61	4.1	2.2	2.9	560	--	--	--
	07/15/99	16.41		16.54	--	1,100	170	ND ⁹	ND ⁹	27	660	--	--	--
	01/07/00	17.85		15.10	--	1,000 ¹¹	180	6.3	ND ⁹	14	430	--	--	--
	07/19/00	18.87		14.08	--	2,980 ¹¹	289	57.3	65.3	43.4	976	--	--	--
	10/03/00	18.47		14.48	--	--	--	--	--	--	--/553 ¹³	--	--	--
	01/02/01	19.01		13.94	--	1,150 ¹¹	87.2	17.8	7.97	9.32	368	--	--	--
	05/23/01	17.38		15.57	--	840 ¹¹	42	10	13	7.1	130	--	--	--
	07/30/01	17.12		15.83	--	1,900 ¹²	82	24	6.9	13	370	--	--	--
	10/15/01	17.33		15.62	--	26,000 ¹⁴	390	230	58	1,300	<500	--	--	--
	01/14/02	15.33		17.62	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	15.89		17.06	--	310 ¹¹	20	6.7	11	7.7	77	--	--	--
	07/15/02 ¹⁷	16.21		16.74	--	1,500	40	22	60	28	170	--	--	--
	01/18/03 ¹⁷	15.68		17.27	--	<50	0.75	<0.50	<0.50	<1.0	81	--	--	--
MW-6 32.42 32.16	10/19/92	--	15-32	--	--	3,900	420	12	60	28	--	--	--	--
	12/21/92	19.17		13.25	--	2,300	370	11	39	15	--	--	--	--
	04/28/93	--		--	--	1,200	54	1.5	11	5.3	--	--	--	--
	07/23/93	18.17		14.25	--	580	19	0.99	3.4	2.7	--	--	--	--
	10/05/93	18.35		13.81	--	1,400	34	ND	5.3	7.3	--	--	--	--
	01/03/94	18.54		13.62	--	1,400	57	ND	8.5	11	--	--	--	--
	04/02/94	18.15		14.01	--	5,300 ⁴	ND	ND	ND	ND	--	--	--	--
	07/05/94	17.25		14.91	--	ND	ND	ND	ND	ND	--	--	--	--
	10/06/94	18.85		13.31	--	11,000 ⁵	ND	ND	ND	ND	--	--	--	--
	01/02/95	17.51		14.65	--	550	18	0.92	2.0	1.8	--	--	--	--
	04/03/95	15.48		16.68	--	6,600 ⁵	ND	ND	ND	ND	--	--	--	--
	07/14/95	16.63		15.53	--	ND	ND	ND	ND	ND	--	--	--	--
10/10/95	17.68		14.48	--	ND	81	ND	ND	ND	75,000	--	--	--	

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-6	01/03/96 ⁷	17.66	15-32	14.50	--	70	9.9	0.58	ND	0.81	--	--	--	--
(cont)	04/10/96	15.56		16.60	--	300	25	4.7	0.94	2.7	53,000	--	--	--
	07/09/96	16.59		15.57	--	1,800	410	ND	12	ND	76,000	--	--	--
	01/24/97	15.69		16.47	--	ND	0.80	ND	ND	ND	390	--	--	--
	07/23/97	17.53		14.63	--	5,700	1,100	240	240	700	16,000	--	--	--
NP	01/26/98	15.44		16.72	--	ND	ND	ND	ND	ND	ND	--	--	--
NP	07/03/98	16.58		15.58	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	17.02		15.14	--	ND	ND	ND	ND	ND	14	--	--	--
	07/15/99	15.95		16.21	--	ND	ND	ND	ND	ND	2.8	--	--	--
	01/07/00	16.96		15.20	--	78 ¹¹	24	ND	0.66	17	280	--	--	--
	07/19/00	18.04		14.12	--	ND	ND	1.32	ND	0.974	ND	--	--	--
	01/02/01	18.10		14.06	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	16.42		15.74	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	16.49		15.67	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	10/15/01	16.67		15.49	--	<50	<0.50	0.62	<0.50	<0.50	<5.0	--	--	--
	01/14/02	14.60		17.56	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	15.07		17.09	--	<50	<0.50	<0.50	<0.50	0.73	<5.0	--	--	--
	07/15/02 ¹⁷	15.56		16.60	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--
	01/18/03 ¹⁷	15.80		16.36	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	--	--	--
MW-7														
32.49	04/28/93	--	13-33	--	--	110	2.8	1.3	1.4	1.7	--	--	--	--
	07/23/93	18.60		13.89	--	790	23	3.3	28	5.4	--	--	--	--
32.20	10/05/93	18.76		13.44	--	360	10	1.2	0.91	0.99	--	--	--	--
	01/03/94	18.91		13.29	--	ND	0.93	ND	0.75	1.9	--	--	--	--
	04/02/94	18.50		13.70	--	360	2.0	ND	ND	0.8	--	--	--	--
	07/05/94	17.52		14.68	--	ND	ND	ND	ND	ND	--	--	--	--
	10/06/94	19.25		12.95	--	340	5.6	0.85	ND	1.2	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-7	01/02/95	17.67	13-33	14.53	--	ND	ND	ND	ND	ND	--	--	--	--
(cont)	04/03/95	15.81		16.39	--	570	24	ND	3.4	5.8	--	--	--	--
	07/14/95	17.05		15.15	--	ND	14	ND	ND	ND	--	--	--	--
	10/10/95	18.08		14.12	--	740	170	ND	ND	ND	13,000	--	--	--
	01/03/96 ⁷	18.02		14.18	--	360	16	1.3	2.7	1.4	--	--	--	--
	04/10/96	15.81		16.39	--	120	4.1	1.5	ND	0.88	3,200	--	--	--
	07/09/96	16.99		15.21	--	ND	ND	ND	ND	ND	3,400	--	--	--
	01/24/97	16.08		16.12	--	ND	16	ND	ND	ND	6,600	--	--	--
	07/23/97	17.99		14.21	--	ND	1.5	ND	ND	0.62	10,000	--	--	--
NP	01/26/98	15.56		16.64	--	ND	ND	ND	ND	0.56	ND	--	--	--
NP	07/03/98	17.04		15.16	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	INACCESSIBLE (PARKED CAR)			--	--	--	--	--	--	--	--	--	--
	07/15/99	15.72		16.48	--	ND	ND	ND	ND	ND	290	--	--	--
	01/07/00	16.80		15.40	--	ND	7.7	ND	ND	4.4	98	--	--	--
	07/19/00	17.88		14.32	--	ND	ND	1.27	ND	0.979	ND	--	--	--
	01/02/01	17.97		14.23	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	16.81		15.39	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	16.79		15.41	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	10/15/01	16.98		15.22	--	<50	<0.50	0.58	<0.50	<0.50	<5.0	--	--	--
	01/14/02	14.85		17.35	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	15.29		16.91	--	<50	<0.50	<0.50	<0.50	0.70	<5.0	--	--	--
	07/15/02 ¹⁷	15.92		16.28	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--
	01/18/03 ¹⁷	15.11		17.09	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	--	--	--
MW-8														
32.33	04/28/93	--	11-29	--	--	450	18	1.8	1.8	1.4	--	--	--	--
	07/23/93	18.45		13.88	--	260	5.1	ND	0.6	ND	--	--	--	--
32.00	10/05/93	18.57		13.43	--	120 ⁵	1.7	ND	ND	ND	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. hgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-8	01/03/94 ¹	18.73	11-29	13.27	--	ND	ND	ND	ND	ND	51	1.5	1.2	ND
(cont)	04/02/94	18.30		13.70	--	150	1.2	ND	ND	ND	--	--	--	--
	07/05/94	17.41		14.59	--	730	17	ND	1.6	ND	--	--	--	--
	10/06/94	18.98		13.02	--	140 ⁵	ND	ND	ND	ND	--	--	--	--
	01/02/95	17.58		14.42	--	440	18	0.72	2.0	1.8	--	--	--	--
	04/03/95	15.54		16.46	--	960	11	ND	ND	ND	--	--	--	--
	07/14/95	16.81		15.19	--	280	4.2	2.6	1.1	3.3	--	--	--	--
	10/10/95	17.85		14.15	--	110	1.3	0.62	0.67	ND	170	--	--	--
	01/03/96 ²	17.82		14.18	--	63	ND	0.51	ND	1.8	--	--	--	--
	04/10/96	15.70		16.30	--	ND	1.1	0.61	ND	ND	60	--	--	--
	07/09/96	16.78		15.22	--	72	1.0	ND	ND	ND	140	--	--	--
	01/24/97	15.79		16.21	--	ND	ND	ND	ND	ND	76	--	--	--
	07/23/97	17.69		14.31	--	ND	ND	ND	ND	ND	270	--	--	--
NP	01/26/98	15.50		16.50	--	ND	ND	ND	ND	0.76	2.9	--	--	--
NP	07/03/98	16.80		15.20	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	17.13		14.87	--	ND	ND	ND	ND	ND	11	--	--	--
	07/15/99	15.85		16.15	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/07/00	16.94		15.06	--	ND	ND	ND	ND	ND	11	--	--	--
	07/19/00	18.06		13.94	--	ND	ND	2.99	0.521	ND	ND	--	--	--
	01/02/01	18.12		13.88	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	16.96		15.04	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	16.52		15.48	--	<50	<0.50	<0.50	<0.50	<0.50	2.7	--	--	--
	10/15/01	16.72		15.28	--	<50	<0.50	0.65	<0.50	<0.50	<5.0	--	--	--
	01/14/02	14.53		17.47	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	14.96		17.04	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--
	07/15/02 ¹⁷	15.60		16.40	--	<50	<0.50	<0.50	<0.50	<1.0	11	--	--	--
	01/18/03 ¹⁷	14.78		17.22	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (pph)	TPH-G (pph)	B (pph)	T (pph)	E (pph)	X (pph)	MTBE (pph)	Chloro- form** (pph)	PCE** (pph)	TCE** (pph)
Trip Blank														
TB-LB	01/26/98	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/03/98	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/14/99	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/15/99	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/07/00	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/19/00	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	01/02/01	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	05/23/01	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
	07/30/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	10/15/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--
	01/14/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
	04/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--
QA	07/15/02 ¹⁷	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--
	01/18/03 ¹⁷	--	--	--	--	<50	<0.50	3.1 ¹⁹	<0.50	1.6 ¹⁹	<2.0	--	--	--

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

EXPLANATIONS:

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

TOC = Top of Casing
 (ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

S.I. = Screen Interval

(ft.bgs) = Feet Below Ground Surface

(msl) = Mean sea level

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

PCE = Tetrachloroethene

TCE = Trichloroethene

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

NP = No Purge

QA = Quality Assurance/Trip Blank

- * TOC elevations are relative to msl, per the City of Oakland benchmark disk stamped "25/A" at the northeast corner of 7th and Harrison (Elevation = 28.81 feet, msl). Prior to October 5, 1993, the DTW measurements were taken from the top of well covers.
- ** All EPA Method 8010 constituents were ND, except as indicated below.
- 1 1,2-Dichloroethane (1,2-DCA) was detected in MW-8 at a concentration of 4.0 ppb on 01/03/94, and 1.1 ppb in MW-1 on 04/28/93.
- 2 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 3 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 4 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 5 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 6 A fuel fingerprint analysis was conducted on this sample. Laboratory report indicates total extractable petroleum hydrocarbons in this sample were not detected in high enough concentrations to compare with known standards and approximate their makeup.
- 7 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 8 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C8.
- 9 Detection limit raised. Refer to analytical reports.
- 10 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
- 11 Laboratory report indicates gasoline C6-C12.
- 12 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 13 MTBE by EPA Method 8260.
- 14 Laboratory report indicates weathered gasoline C6-C12.
- 15 Laboratory report indicates gasoline C6-C10.
- 16 Laboratory report indicates unidentified hydrocarbons C6-C10.
- 17 TPH-G, BTEX and MTBE by EPA Method 8260.
- 18 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 19 Laboratory confirmed detection of analyte was the result of trip blank vendor contamination, and did not occur in the field or during analysis.

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

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	07/15/02	<25	<5.0	2,100	<1.0	<0.5	<0.5	<0.5	<0.5
	01/18/03	--	--	29,000	--	--	--	--	--
MW-2	01/18/03	--	--	22	--	--	--	--	--
MW-3	01/18/03	--	--	130	--	--	--	--	--
MW-4	01/18/03	--	--	<2.0	--	--	--	--	--
MW-5	10/03/00	--	ND ¹	553	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	01/18/03	--	--	81	--	--	--	--	--
MW-6	01/18/03	--	--	<2.0	--	--	--	--	--
MW-7	01/18/03	--	--	<2.0	--	--	--	--	--
MW-8	01/18/03	--	--	<2.0	--	--	--	--	--

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

¹ Detection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

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

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

EXPLANATIONS:

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

TOG = Total Oil and Grease

(ppm) = Parts per million

ND = Not Detected

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

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

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

EXPLANATIONS:

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

BOD = Biochemical Oxygen Demand

(ppm) = Parts per million

(CFU/mL) = Colony Forming Units per milliliter

-- = Not Analyzed

ND = Not Detected

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

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

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

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

EXPLANATIONS:

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

(mg/L) = Milligrams per liter

-- = Not Measured

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 33.40 ft.
 Depth to Water: 17.04 ft.
16.36 x VF 0.17 = 2.78

Date Monitored: 1-18-03 Well Condition: OK

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

x3 (case volume) = Estimated Purge Volume: 8.5 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): 1108 Weather Conditions: Clear
 Sample Time/Date: 1130 1-18-03 Water Color: clear Odor: Some
 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 (C/F)	D.O. (mg/L)	ORP (mV)
<u>1116</u>	<u>3.5</u>	<u>6.80</u>	<u>297</u>	<u>72.0</u>	_____	_____
<u>1118</u>	<u>6.5</u>	<u>7.14</u>	<u>312</u>	<u>73.0</u>	_____	_____
<u>1121</u>	<u>8.5</u>	<u>7.26</u>	<u>316</u>	<u>72.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-2 Date Monitored: 1-18-03 Well Condition: OK

Well Diameter: 2 in.
 Total Depth: 30.33 ft.
 Depth to Water: 16.93 ft.
13.40 xVF 0.17 = 2.28 x3 (case volume) = Estimated Purge Volume: 7 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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 1005 Weather Conditions: clear
 Sample Time/Date: 1030 1-18-03 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)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1013</u>	<u>2.5</u>	<u>7.85</u>	<u>5.04</u>	<u>71.3</u>		
<u>1015</u>	<u>5</u>	<u>7.53</u>	<u>5.91</u>	<u>72.0</u>		
<u>1017</u>	<u>7</u>	<u>7.55</u>	<u>5.83</u>	<u>72.2</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 30.45 ft.
 Depth to Water: 15.81 ft.
14.64 x VF 0.17 = 2.49 x3 (case volume) = Estimated Purge Volume: 7.5 gal.

Date Monitored: 1-18-03

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

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): 0430 Weather Conditions: clear
 Sample Time/Date: 0951/1-18-03 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)	Temperature (C/D)	D.O. (mg/L)	ORP (mV)
<u>0938</u>	<u>2.5</u>	<u>6.67</u>	<u>4.10</u>	<u>71.1</u>	_____	_____
<u>0940</u>	<u>5</u>	<u>6.78</u>	<u>4.95</u>	<u>72.3</u>	_____	_____
<u>0943</u>	<u>7.5</u>	<u>6.80</u>	<u>4.92</u>	<u>73.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-4 Date Monitored: 1-18-03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 32.38 ft.

Depth to Water: 15.39 ft.

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

16.99 xVF 0.17 = 2.89 x3 (case volume) = Estimated Purge Volume: 9 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): 0705 Weather Conditions: clear
 Sample Time/Date: 0730 1-18-03 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 (C/F)	D.O. (mg/L)	ORP (mV)
<u>0712</u>	<u>3</u>	<u>8.03</u>	<u>6.97</u>	<u>69.5</u>	_____	_____
<u>0714</u>	<u>6</u>	<u>7.67</u>	<u>7.15</u>	<u>70.3</u>	_____	_____
<u>0716</u>	<u>9</u>	<u>7.61</u>	<u>7.04</u>	<u>71.6</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/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-5 Date Monitored: 1-18-03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 31.66 ft.

Depth to Water: 15.68 ft.

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

15.98 xVF 0.17 = 2.72 x3 (case volume) = Estimated Purge Volume: 8.5 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): 1034 Weather Conditions: clear
 Sample Time/Date: 1102 / 1-18-03 Water Color: clear Odor: Some
 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 (C/F)	D.O. (mg/L)	ORP (mV)
<u>1046</u>	<u>3</u>	<u>7.27</u>	<u>6.10</u>	<u>73.1</u>		
<u>1048</u>	<u>5.5</u>	<u>7.38</u>	<u>5.64</u>	<u>71.6</u>		
<u>1050</u>	<u>8.5</u>	<u>7.46</u>	<u>5.60</u>	<u>71.4</u>		

LABORATORY INFORMATION

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

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-6 Date Monitored: 1-18-03 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 30.85 ft.
 Depth to Water: 15.80 ft.
15.05 x VF 0.17 = 2.56 x3 (case volume) = Estimated Purge Volume: 8 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): 0745 Weather Conditions: clear
 Sample Time/Date: 0808 1-18-03 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) ¹²	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0752</u>	<u>3</u>	<u>7.89</u>	<u>8.06</u>	<u>72.2</u>		
<u>0755</u>	<u>5</u>	<u>7.66</u>	<u>8.45</u>	<u>71.6</u>		
<u>0757</u>	<u>8</u>	<u>7.22</u>	<u>8.41</u>	<u>71.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(B260)</u>

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Soc

Well ID: MW-7 Date Monitored: 1-18-03 Well Condition: O.K.

Well Diameter: 2 in.

Total Depth: 31.45 ft.

Depth to Water: 15.11 ft.

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

16.34 x VF 0.17 = 2.78 x3 (case volume) = Estimated Purge Volume: 8.5 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): 0815 Weather Conditions: clear
 Sample Time/Date: 0836 / 1-18-03 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 (C/F)	D.O. (mg/L)	ORP (mV)
<u>0822</u>	<u>3.5</u>	<u>6.92</u>	<u>6.67</u>	<u>71.6</u>	_____	_____
<u>0824</u>	<u>5.5</u>	<u>7.29</u>	<u>6.24</u>	<u>72.5</u>	_____	_____
<u>0827</u>	<u>8.5</u>	<u>7.31</u>	<u>6.18</u>	<u>71.9</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0752 Job Number: 180066
 Site Address: 800 Harrison Street Event Date: 1-18-03 (inclusive)
 City: Oakland, CA Sampler: Soc

Well ID: MW-8 Date Monitored: 1-18-03 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 27.85 ft.
 Depth to Water: 14.78 ft.
13.07 x VF 0.17 = 2.22 x3 (case volume) = Estimated Purge Volume: 7 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): 0850 Weather Conditions: clear
 Sample Time/Date: 0922 1-18-03 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 (C/F)	D.O. (mg/L)	ORP (mV)
<u>0903</u>	<u>2.5</u>	<u>7.08</u>	<u>9.31</u>	<u>70.7</u>	_____	_____
<u>0905</u>	<u>5</u>	<u>7.65</u>	<u>8.22</u>	<u>71.0</u>	_____	_____
<u>0907</u>	<u>7</u>	<u>7.52</u>	<u>7.64</u>	<u>71.5</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

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

2003-01-0319

71473

Gettler-Ryan Inc., Chain-of-Custody

P-1

9256003002

stlOnsite

Feb 04 03 09:43a

FILE NAME: P:\EMERGENCY-CHAINOF-CUSTODY\STD-COC.DWG | Layout Tab: Model

<p style="text-align: center;">Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583</p>	Facility Number <u>#0752</u>	Laboratory Name <u>STL - PLEASANTON, CA</u>
	Facility Address <u>800 HARRISON STREET, OAKLAND, CA</u>	Consultant <u>GETTLER-RYAN, INC. DEANNA L. HARDING</u>
	Global ID <u>T0600101486</u> Project <u>180066.80</u>	Address <u>6747 SIERRA CT., SUITE J, DUBLIN CA 94568</u>
	Client Contact <u>MR. DAVID B. DEWITT</u>	Phone <u>(925) 551-7555</u> Fax <u>(925) 551-7899</u>
	Phone <u>(925) 277-2384</u>	Samples Collected by <u>JOE ASEMIAN</u>

SAMPLE ID	Number of Containers Matrix	S = Soil A = Air W = Water C = Charcoal		Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5820	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/AMMONIUM EPA 300 SERIES	HYOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks	
QA	1	W	HCL		1-18-03					✓										
MW-1	3	"	"	"	1130					✓										
MW-2	"	"	"	"	1030					✓										
MW-3	"	"	"	"	0951					✓										
MW-4	"	"	"	"	0730					✓										
MW-5	"	"	"	"	1102					✓										
MW-6	"	"	"	"	0808					✓										
MW-7	"	"	"	"	0836					✓										
MW-8	"	"	"	"	0922					✓										

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

Relinquished By (Signature) 	Organization	Date/Time 1-18-03	Received By (Signature) 	Organization SR	Date/Time 1/20/03 15:05	Iced <input checked="" type="checkbox"/> Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days <input checked="" type="checkbox"/> As Contracted
Relinquished By (Signature) 	Organization SR	Date/Time 1/20/03 15:05	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) 		Date/Time 1/20/03	Iced Y/N	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899
Project: 180066.80
Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	01/18/2003	Water	1
MW-1	01/18/2003 11:30	Water	2
MW-2	01/18/2003 10:30	Water	3
MW-3	01/18/2003 09:51	Water	4
MW-4	01/18/2003 07:30	Water	5
MW-5	01/18/2003 11:02	Water	6
MW-6	01/18/2003 08:08	Water	7
MW-7	01/18/2003 08:36	Water	8
MW-8	01/18/2003 09:22	Water	9

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Dublin, CA 94568

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Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street

Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2003-01-0319-1
Sampled:	01/18/2003	Extracted:	1/30/2003 18:51
Matrix:	Water	QC Batch#:	2003/01/30-01-27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2003 18:51	
Benzene	ND	0.50	ug/L	1.00	01/30/2003 18:51	
Toluene	3.1	0.50	ug/L	1.00	01/30/2003 18:51	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2003 18:51	
Total xylenes	1.6	1.0	ug/L	1.00	01/30/2003 18:51	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	01/30/2003 18:51	
Surrogates(s)						
1,2-Dichloroethane-d4	104.1	76-114	%	1.00	01/30/2003 18:51	
Toluene-d8	98.9	88-110	%	1.00	01/30/2003 18:51	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street

Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2003-01-0319 - 2
Sampled: 01/18/2003 11:30	Extracted: 1/31/2003 02:04
Matrix: Water	QC Batch#: 2003/01/30-02.27
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	25000	ug/L	500.00	01/31/2003 02:04	
Benzene	ND	250	ug/L	500.00	01/31/2003 02:04	
Toluene	ND	250	ug/L	500.00	01/31/2003 02:04	
Ethylbenzene	ND	250	ug/L	500.00	01/31/2003 02:04	
Total xylenes	ND	500	ug/L	500.00	01/31/2003 02:04	
Methyl tert-butyl ether (MTBE)	29000	1000	ug/L	500.00	01/31/2003 02:04	
Surrogates(s)						
1,2-Dichloroethane-d4	102.5	76-114	%	500.00	01/31/2003 02:04	
Toluene-d8	98.5	88-110	%	500.00	01/31/2003 02:04	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2003-01-0319 - 3
Sampled: 01/18/2003 10:30	Extracted: 1/31/2003 01:42
Matrix: Water	QC Batch#: 2003/01/30-02-27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/31/2003 01:42	
Benzene	ND	0.50	ug/L	1.00	01/31/2003 01:42	
Toluene	ND	0.50	ug/L	1.00	01/31/2003 01:42	
Ethylbenzene	ND	0.50	ug/L	1.00	01/31/2003 01:42	
Total xylenes	ND	1.0	ug/L	1.00	01/31/2003 01:42	
Methyl tert-butyl ether (MTBE)	22	2.0	ug/L	1.00	01/31/2003 01:42	
Surrogates(s)						
1,2-Dichloroethane-d4	110.4	76-114	%	1.00	01/31/2003 01:42	
Toluene-d8	98.3	88-110	%	1.00	01/31/2003 01:42	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-3	Lab ID: 2003-01-0319 - 4
Sampled: 01/18/2003 09:51	Extracted: 1/31/2003 18:31
Matrix: Water	QC Batch#: 2003/01/31-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	420	50	ug/L	1.00	01/31/2003 18:31	
Benzene	0.54	0.50	ug/L	1.00	01/31/2003 18:31	
Toluene	ND	0.50	ug/L	1.00	01/31/2003 18:31	
Ethylbenzene	ND	0.50	ug/L	1.00	01/31/2003 18:31	
Total xylenes	ND	1.0	ug/L	1.00	01/31/2003 18:31	
Methyl tert-butyl ether (MTBE)	130	2.0	ug/L	1.00	01/31/2003 18:31	
Surrogates(s)						
1,2-Dichloroethane-d4	108.8	76-114	%	1.00	01/31/2003 18:31	
Toluene-d8	95.2	88-110	%	1.00	01/31/2003 18:31	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180066.80
Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-01-0319 - 5
Sampled:	01/18/2003 07:30	Extracted:	1/31/2003 00:59
Matrix:	Water	QC Batch#:	2003/01/30-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/31/2003 00:59	
Benzene	ND	0.50	ug/L	1.00	01/31/2003 00:59	
Toluene	ND	0.50	ug/L	1.00	01/31/2003 00:59	
Ethylbenzene	ND	0.50	ug/L	1.00	01/31/2003 00:59	
Total xylenes	ND	1.0	ug/L	1.00	01/31/2003 00:59	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	01/31/2003 00:59	
Surrogates(s)						
1,2-Dichloroethane-d4	104.0	76-114	%	1.00	01/31/2003 00:59	
Toluene-d8	100.9	88-110	%	1.00	01/31/2003 00:59	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180066.80
Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-5	Lab ID:	2003-01-0319 - 6
Sampled:	01/18/2003 11:02	Extracted:	1/31/2003 00:38
Matrix:	Water	QC Batch#:	2003/01/30-02:27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/31/2003 00:38	
Benzene	0.75	0.50	ug/L	1.00	01/31/2003 00:38	
Toluene	ND	0.50	ug/L	1.00	01/31/2003 00:38	
Ethylbenzene	ND	0.50	ug/L	1.00	01/31/2003 00:38	
Total xylenes	ND	1.0	ug/L	1.00	01/31/2003 00:38	
Methyl tert-butyl ether (MTBE)	81	2.0	ug/L	1.00	01/31/2003 00:38	
Surrogates(s)						
1,2-Dichloroethane-d4	103.1	76-114	%	1.00	01/31/2003 00:38	
Toluene-d8	99.1	88-110	%	1.00	01/31/2003 00:38	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Dublin, CA 94568
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Project: 180066.80
Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2003-01-0319-7
Sampled:	01/18/2003 08:08	Extracted:	1/31/2003 00:16
Matrix:	Water	QC Batch#:	2003/01/30-02-27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/31/2003 00:16	
Benzene	ND	0.50	ug/L	1.00	01/31/2003 00:16	
Toluene	ND	0.50	ug/L	1.00	01/31/2003 00:16	
Ethylbenzene	ND	0.50	ug/L	1.00	01/31/2003 00:16	
Total xylenes	ND	1.0	ug/L	1.00	01/31/2003 00:16	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	01/31/2003 00:16	
Surrogates(s)						
1,2-Dichloroethane-d4	105.5	76-114	%	1.00	01/31/2003 00:16	
Toluene-d8	100.4	88-110	%	1.00	01/31/2003 00:16	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180066.80
Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-7	Lab ID:	2003-01-0319 - 8
Sampled:	01/18/2003 08:36	Extracted:	1/30/2003 23:54
Matrix:	Water	QC Batch#:	2003/01/30-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2003 23:54	
Benzene	ND	0.50	ug/L	1.00	01/30/2003 23:54	
Toluene	ND	0.50	ug/L	1.00	01/30/2003 23:54	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2003 23:54	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2003 23:54	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	01/30/2003 23:54	
Surrogates(s)						
1,2-Dichloroethane-d4	105.6	76-114	%	1.00	01/30/2003 23:54	
Toluene-d8	99.1	88-110	%	1.00	01/30/2003 23:54	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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6747 Sierra Court Suite J

Dublin, CA 94568

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

Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street

Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-8	Lab ID:	2003-01-0319 - 9
Sampled:	01/18/2003 09:22	Extracted:	1/30/2003 23:33
Matrix:	Water	QC Batch#:	2003/01/30-02.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2003 23:33	
Benzene	ND	0.50	ug/L	1.00	01/30/2003 23:33	
Toluene	ND	0.50	ug/L	1.00	01/30/2003 23:33	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2003 23:33	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2003 23:33	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	01/30/2003 23:33	
Surrogates(s)						
1,2-Dichloroethane-d4	107.2	76-114	%	1.00	01/30/2003 23:33	
Toluene-d8	99.5	88-110	%	1.00	01/30/2003 23:33	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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

Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street

Oakland, CA

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/01/30-01.27	
MB: 2003/01/30-01.27-022				Date Extracted: 01/30/2003 11:25	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/30/2003 11:25	
Benzene	ND	0.5	ug/L	01/30/2003 11:25	
Toluene	ND	0.5	ug/L	01/30/2003 11:25	
Ethylbenzene	ND	0.5	ug/L	01/30/2003 11:25	
Total xylenes	ND	1.0	ug/L	01/30/2003 11:25	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	01/30/2003 11:25	
Surrogates(s)					
1,2-Dichloroethane-d4	97.8	76-114	%	01/30/2003 11:25	
Toluene-d8	99.0	88-110	%	01/30/2003 11:25	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Dublin, CA 94568

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

Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/01/30-02.27-034

Water

Test(s): 8260FAB

QC Batch # 2003/01/30-02.27

Date Extracted: 01/30/2003 20:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/30/2003 20:40	
Benzene	ND	0.5	ug/L	01/30/2003 20:40	
Toluene	ND	0.5	ug/L	01/30/2003 20:40	
Ethylbenzene	ND	0.5	ug/L	01/30/2003 20:40	
Total xylenes	ND	1.0	ug/L	01/30/2003 20:40	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	01/30/2003 20:40	
Surrogates(s)					
1,2-Dichloroethane-d4	102.4	76-114	%	01/30/2003 20:40	
Toluene-d8	97.6	88-110	%	01/30/2003 20:40	

Severn Trent Laboratories, Inc.

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

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

02/21/2003 10:43

Page 12 of 17

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

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

Project: 180066.80

Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street

Oakland, CA

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/01/31-01.62	
MB: 2003/01/31-01.62-031				Date Extracted: 01/31/2003 15:31	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/31/2003 15:31	
Benzene	ND	0.5	ug/L	01/31/2003 15:31	
Toluene	ND	0.5	ug/L	01/31/2003 15:31	
Ethylbenzene	ND	0.5	ug/L	01/31/2003 15:31	
Total xylenes	ND	1.0	ug/L	01/31/2003 15:31	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	01/31/2003 15:31	
Surrogates(s)					
1,2-Dichloroethane-d4	109.3	76-114	%	01/31/2003 15:31	
Toluene-d8	95.5	88-110	%	01/31/2003 15:31	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
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Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	QC Batch # 2003/01/30-01.27
LCS	2003/01/30-01.27-004	Extracted: 01/30/2003	Analyzed: 01/30/2003 10:38
LCSD	2003/01/30-01.27-005	Extracted: 01/30/2003	Analyzed: 01/30/2003 11:04

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.5	27.1	25.0	102.0	108.4	6.1	65-165	20		
Benzene	24.3	24.6	25.0	97.2	98.4	1.2	69-129	20		
Toluene	23.6	25.4	25.0	94.4	101.6	7.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492	503	500	98.4	100.6		76-114			
Toluene-d8	499	486	500	99.8	97.2		88-110			

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Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/01/30-02.27

LCS 2003/01/30-02.27-028

Extracted: 01/30/2003

Analyzed: 01/30/2003 19:56

LCSD 2003/01/30-02.27-029

Extracted: 01/30/2003

Analyzed: 01/30/2003 20:18

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	24.7	24.3	25.0	98.8	97.2	1.6	69-129	20		
Toluene	25.0	24.4	25.0	100.0	97.6	2.4	70-130	20		
Methyl tert-butyl ether (MTBE)	26.7	26.9	25.0	106.8	107.6	0.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	510	532	500	102.0	106.4		76-114			
Toluene-d8	510	482	500	102.0	96.4		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Tosco # 0752

Received: 01/20/2003 15:25

Site: 800 Harrison Street
Oakland, CA

Batch QC Report										
Prep(s): 5030B							Test(s): 8260FAB			
Laboratory Control Spike			Water			QC Batch # 2003/01/31-01.62				
LCS	2003/01/31-01.62-046		Extracted: 01/31/2003			Analyzed: 01/31/2003 14:46				
LCSD	2003/01/31-01.62-009		Extracted: 01/31/2003			Analyzed: 01/31/2003 15:09				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.2	23.7	25.0	88.8	94.8	6.5	69-129	20		
Toluene	22.6	23.5	25.0	90.4	94.0	3.9	70-130	20		
Methyl tert-butyl ether (MTBE)	23.8	23.4	25.0	95.2	93.6	1.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	547	546	500	109.4	109.2		76-114			
Toluene-d8	478	481	500	95.6	96.2		88-110			

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Legend and Notes

Report Comment

Toluene and xylenes were detected in the trip blank for this project. The laboratory has determined that some VOAs in this lot of trip blanks were contaminated when received from the vendor, and that this blank was not contaminated during transport.

Analysis Flag

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