



GETTLER-RYAN INC.

01-09-23A09:32 RCVD

TRANSMITTAL

September 11, 2001

G-R #180066

R0231

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

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

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 29, 2001	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 30, 2001

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **September 25, 2001**, this report will be distributed to the following:

cc: Ms. Jennifer Eberle, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502

Enclosure

trans/0752-DBD



GETTLER - RYAN INC.

August 29, 2001
G-R Job #180066

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

RE: Third Quarter Event of July 30, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #0752
800 Harrison Street
Oakland, California

Dear Mr. De Witt:

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

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

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1, 2, 3 and 4. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

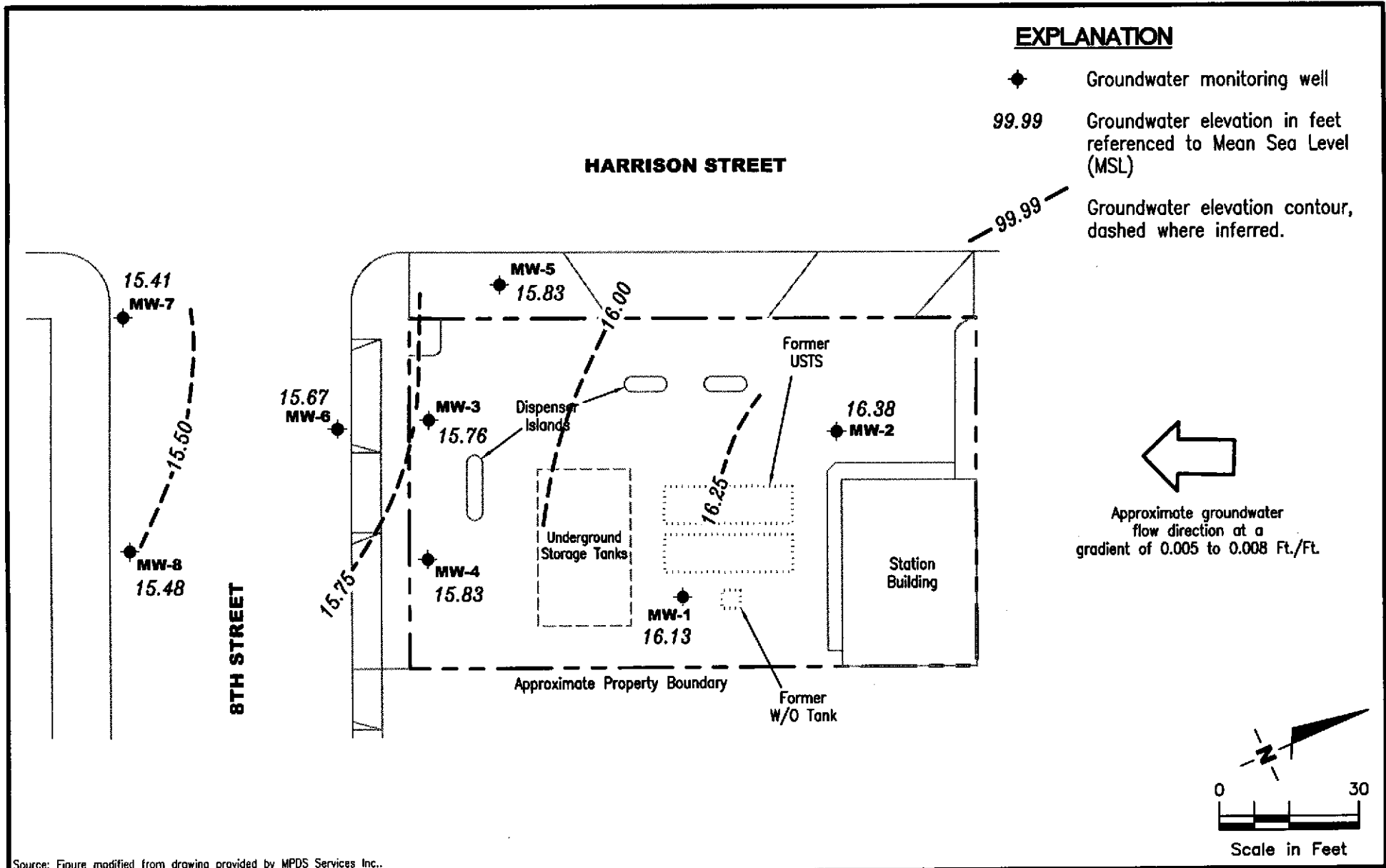
Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734



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

0752.qml



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

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

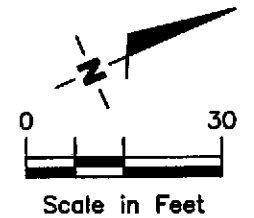
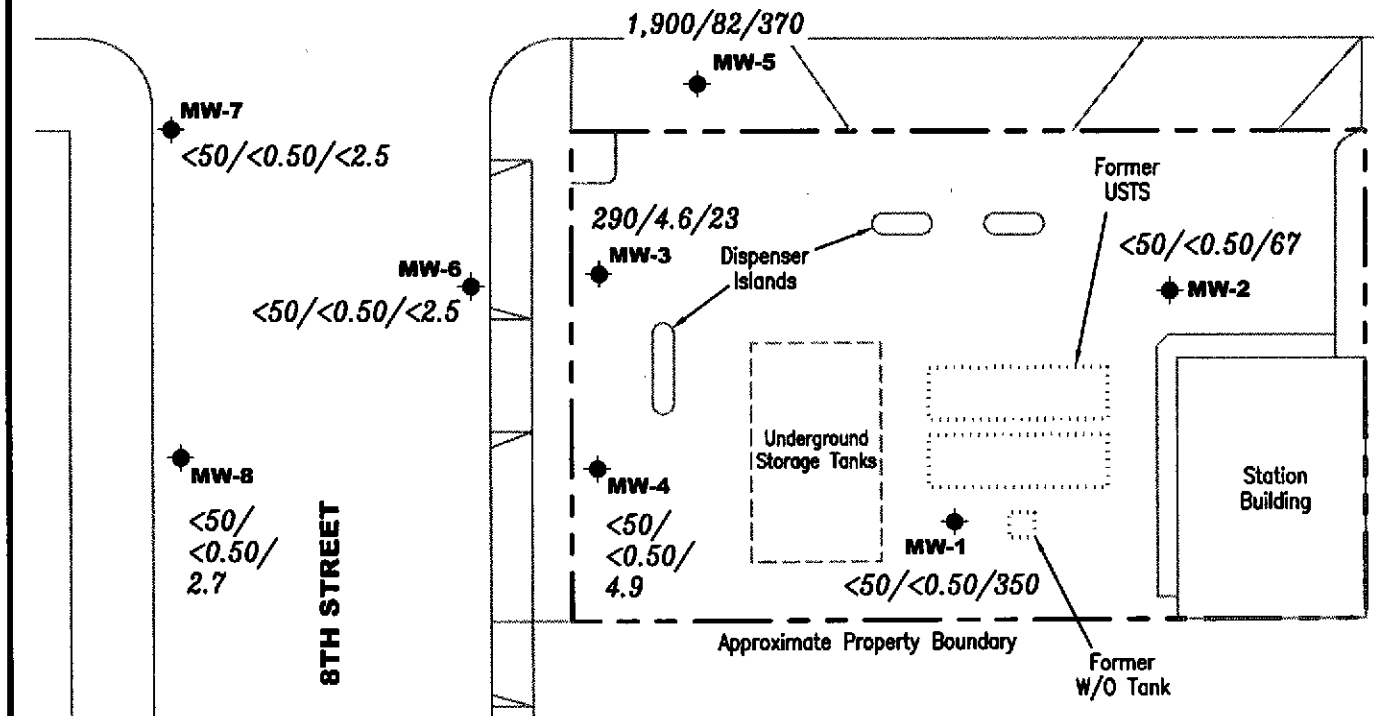
FIGURE
1

PROJECT NUMBER 180066 REVIEWED BY DATE July 30, 2001 REVISED DATE

EXPLANATION

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

HARRISON STREET



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 #0752
 800 Harrison Street
 Oakland, California

FIGURE
2

PROJECT NUMBER
 180066

REVIEWED BY

DATE
 July 30, 2001

REVISED DATE

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

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-1	06/05/91	--	--	ND	47	ND	ND	ND	ND	--	7.8	2.9	1.3
	09/30/91	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	12/30/91	--	--	ND	ND	ND	ND	ND	ND	--	6.4	2.1	0.9
	04/02/92	--	--	94	ND	ND	ND	ND	ND	--	7.1	2.6	1.4
	06/30/92	--	--	120	ND	ND	ND	ND	ND	--	9.5	2.2	1.3
	09/15/92	--	--	ND	76	1.0	ND	ND	ND	--	12	2.2	1.3
34.94	12/21/92	21.17	13.77	ND	95	0.69	ND	ND	1.0	--	12	1.4	0.83
	04/28/93 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	--	--	--

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

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-1	01/07/00	19.13	15.56	--	ND	ND	ND	ND	ND	260	--	--	--
(cont)	07/19/00	20.27	14.42	--	ND	ND	ND	ND	ND	648	--	--	--
	01/02/01	20.04	14.65	--	ND	ND	ND	ND	ND	119	--	--	--
	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	--	--	--
MW-2	06/05/91	--	--	--	49	ND	ND	ND	ND	--	--	--	--
	09/30/91	--	--	--	130	18	0.53	14	9.6	--	--	--	--
	12/30/91	--	--	--	91	16	0.89	11	1.9	--	--	--	--
	04/02/92	--	--	--	88	12	0.32	6.3	7.2	--	--	--	--
	06/30/92	--	--	--	76	9.3	0.76	4.8	6.9	--	--	--	--
	09/15/92	--	--	--	1,300	91	5.7	80	110	--	--	--	--
34.97	12/21/92	20.85	14.12	--	960	97	3.2	74	96	--	--	--	--
	04/28/93	--	--	--	1,300	76	1.9	130	87	--	--	--	--
	07/23/93	19.81	15.16	--	66	1.8	ND	2.5	2.0	--	--	--	--
34.72	10/05/93	19.95	14.77	--	120	12	ND	2.1	12	--	--	--	--
	01/03/94	20.21	14.51	--	260	25	ND	5.5	26	--	--	--	--
	04/02/94	19.88	14.84	--	ND	0.65	ND	ND	0.99	--	--	--	--
	07/05/94	19.07	15.65	--	160	16	ND	0.73	10	--	--	--	--
	10/06/94	20.55	14.17	--	170	15	ND	1.4	11	--	--	--	--
	01/02/95	19.25	15.47	--	190	27	ND	0.95	11	--	--	--	--
	04/03/95	17.49	17.23	--	2,400	65	6.6	19	63	--	--	--	--
	07/14/95	18.30	16.42	--	750	270	ND	ND	13	--	--	--	--
	10/10/95	19.25	15.47	--	50	1.6	ND	ND	ND	200	--	--	--
	01/03/96	19.40	15.32	--	ND	ND	ND	ND	ND	--	--	--	--
	04/10/96	17.35	17.37	--	300	42	ND	2.4	9.0	620	--	--	--
	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	--	--	--

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 800 Harrison Street
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-2	NP	07/03/98	18.20	16.52	--	140	26	ND	0.95	5.0	330	--	--
(cont)		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	--	--
MW-3		06/05/91	--	--	--	5,800	1,200	40	140	97	--	--	--
		09/30/91	--	--	--	6,800	1,400	130	290	240	--	--	--
		12/30/91	--	--	--	7,200	2,100	690	410	550	--	--	--
		04/02/92	--	--	--	8,000	1,400	200	300	310	--	--	--
		06/30/92	--	--	--	8,900	1,900	210	430	550	--	--	--
		09/15/92	--	--	--	10,000	1,900	330	400	580	--	--	--
33.39		12/21/92	20.02	13.37	--	8,500	1,500	150	310	330	--	--	--
		04/28/93	--	--	--	2,600	220	7.6	41	27	--	--	--
		07/23/93	19.00	14.39	--	4,400	660	26	160	82	--	--	--
33.14		10/05/93	19.20	13.94	--	9,200	720	88	140	140	--	--	--
		01/03/94	19.40	13.74	--	4,900	830	100	170	150	--	--	--
		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	--	--

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 800 Harrison Street
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-3	01/24/97	16.57	16.57	--	540	8.0	ND	11	9.9	45	--	--	--
(cont)	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	--	--	--
MW-4	10/19/92	--	--	--	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	--	--	--

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

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-4	NP	01/26/98	16.05	16.66	--	ND	ND	ND	ND	ND	17	--	--
(cont)	NP	07/03/98	16.95	15.76	--	ND	ND	ND	ND	ND	3.8	--	--
		01/14/99	17.34	15.37	--	ND	ND	ND	ND	ND	4,600	--	--
		07/15/99	16.36	16.35	--	ND	ND	ND	ND	ND	ND	--	--
		01/07/00	17.81	14.90	--	ND	ND	ND	ND	ND	450	--	--
		07/19/00	18.94	13.77	--	ND	ND	ND	ND	ND	ND	--	--
		01/02/01	18.85	13.86	--	ND	ND	ND	ND	ND	ND	--	--
		05/23/01	16.82	15.89	--	ND	ND	ND	ND	ND	ND	--	--
		07/30/01	16.88	15.83	--	<50	<0.50	<0.50	<0.50	<0.50	4.9	--	--
MW-5		10/19/92	--	--	--	2,700	61	5.0	100	61	--	--	--
33.25		12/21/92	19.75	13.50	--	1,700	51	4.7	83	34	--	--	--
		04/28/93	--	--	--	6,700	200	190	250	430	--	--	--
		07/23/93	18.74	14.51	--	2,000	122	8.0	68	47	--	--	--
32.95		10/05/93	18.83	14.12	--	1,700	70	6.2	54	40	--	--	--
		01/03/94	19.05	13.90	--	1,500	44	ND	42	46	--	--	--
		04/02/94	18.68	14.27	--	1,800	46	5.1	38	35	--	--	--
		07/05/94	17.90	15.05	--	2,200	97	8.4	37	36	--	--	--
		10/06/94	19.37	13.58	--	1,600	79	5.7	28	22	--	--	--
		01/02/95	17.92	15.03	--	1,700	50	8.6	30	28	--	--	--
		04/03/95	16.15	16.80	--	5,400 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	--	--
	NP	07/03/98	17.27	15.68	--	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*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-5	01/14/99	17.55	15.40	--	330	61	4.1	2.2	2.9	560	--	--	--
(cont)	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	--	--	--
MW-6	10/19/92	--	--	--	3,900	420	12	60	28	--	--	--	--
32.42	12/21/92	19.17	13.25	--	2,300	370	11	39	15	--	--	--	--
	04/28/93	--	--	--	1,200	54	1.5	11	5.3	--	--	--	--
	07/23/93	18.17	14.25	--	580	19	0.99	3.4	2.7	--	--	--	--
32.16	10/05/93	18.35	13.81	--	1,400	34	ND	5.3	7.3	--	--	--	--
	01/03/94	18.54	13.62	--	1,400	57	ND	8.5	11	--	--	--	--
	04/02/94	18.15	14.01	--	5,300 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	--	--	--
	01/03/96 ⁷	17.66	14.50	--	70	9.9	0.58	ND	0.81	--	--	--	--
	04/10/96	15.56	16.60	--	300	25	4.7	0.94	2.7	53,000	--	--	--
	07/09/96	16.59	15.57	--	1,800	410	ND	12	ND	76,000	--	--	--
	01/24/97	15.69	16.47	--	ND	0.80	ND	ND	ND	390	--	--	--
	07/23/97	17.53	14.63	--	5,700	1,100	240	240	700	16,000	--	--	--
NP	01/26/98	15.44	16.72	--	ND	ND	ND	ND	ND	ND	--	--	--
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	--	--	--

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

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-6	07/15/99	15.95	16.21	--	ND	ND	ND	ND	ND	2.8	--	--	--
(cont)	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	--	--	--
MW-7													
32.49	04/28/93	--	--	--	110	2.8	1.3	1.4	1.7	--	--	--	--
	07/23/93	18.60	13.89	--	790	23	3.3	28	5.4	--	--	--	--
32.20	10/05/93	18.76	13.44	--	360	10	1.2	0.91	0.99	--	--	--	--
	01/03/94	18.91	13.29	--	ND	0.93	ND	0.75	1.9	--	--	--	--
	04/02/94	18.50	13.70	--	360	2.0	ND	ND	0.8	--	--	--	--
	07/05/94	17.52	14.68	--	ND	ND	ND	ND	ND	--	--	--	--
	10/06/94	19.25	12.95	--	340	5.6	0.85	ND	1.2	--	--	--	--
	01/02/95	17.67	14.53	--	ND	ND	ND	ND	ND	--	--	--	--
	04/03/95	15.81	16.39	--	570	24	ND	3.4	5.8	--	--	--	--
	07/14/95	17.05	15.15	--	ND	14	ND	ND	ND	--	--	--	--
	10/10/95	18.08	14.12	--	740	170	ND	ND	ND	13,000	--	--	--
	01/03/96 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)			--	--	--	--	--	--	--	--	--

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

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-7	07/15/99	15.72	16.48	--	ND	ND	ND	ND	ND	290	--	--	--
(cont)	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	--	--	--
MW-8													
32.33	04/28/93	--	--	--	450	18	1.8	1.8	1.4	--	--	--	--
	07/23/93	18.45	13.88	--	260	5.1	ND	0.6	ND	--	--	--	--
32.00	10/05/93	18.57	13.43	--	120 ⁵	1.7	ND	ND	ND	--	--	--	--
	01/03/94 ¹	18.73	13.27	--	ND	ND	ND	ND	ND	51	1.5	1.2	ND
	04/02/94	18.30	13.70	--	150	1.2	ND	ND	ND	--	--	--	--
	07/05/94	17.41	14.59	--	730	17	ND	1.6	ND	--	--	--	--
	10/06/94	18.98	13.02	--	140 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 ⁷	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	--	--	--

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

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	Chloro- form** (ppb)	PCE** (ppb)	TCE** (ppb)
MW-8	07/15/99	15.85	16.15	--	ND	ND	ND	ND	ND	ND	--	--	--
(cont)	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	--	--	--
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	--	--	--

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
 DTW = Depth to Water
 (ft.) = Feet
 GWE = Groundwater Elevation
 (msl) = Mean sea level
 TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MTBE = Methyl tertiary butyl ether

PCE = Tetrachloroethene
 TCE = Trichloroethene
 (ppb) = Parts per billion
 ND = Not Detected
 -- = Not Measured/Not Analyzed
 NP = No Purge

* 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.

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

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-5	10/03/00	ND ¹	553	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Detection limit raised. Refer to analytical reports.

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

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

EXPLANATIONS:

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

TOG = Total Oil and Grease

(ppm) = Parts per million

ND = Not Detected

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

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

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

EXPLANATIONS:

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

BOD = Biochemical Oxygen Demand

(ppm) = Parts per million

(CFU/mL) = Colony Forming Units per milliliter

-- = Not Analyzed

ND = Not Detected

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

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

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

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

EXPLANATIONS:

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

(mg/L) = Milligrams per liter

-- = Not Measured

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 0752 Job#: 180066
 Address: 800 Harrison St. Date: 7-30-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-1 Well Condition: o.k.
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 33.47 ft.
 Depth to Water 18.56 ft.

Volume	2" = 0.17	3" = 0.38	4" = 0.66
Factor (VF)	6" = 1.50	12" = 5.80	

14.91 X VF 0.17 = 2.53 X 3 (case volume) = Estimated Purge Volume: 8 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 10:35 Weather Conditions: clear
 Sampling Time: 11:00 A.M. (1100) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:43</u>	<u>3</u>	<u>7.51</u>	<u>10.39</u>	<u>72.2</u>	_____	_____	_____
<u>10:45</u>	<u>3.5</u>	<u>7.48</u>	<u>10.47</u>	<u>71.6</u>	_____	_____	_____
<u>10:47</u>	<u>6</u>	<u>7.43</u>	<u>10.48</u>	<u>71.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 0752
Address: 800 Harrison St.
City: Oakland, CA.

Job#: 180066
Date: 7-30-01
Sampler: Joe

Well ID MW-2
Well Diameter 2 in
Total Depth 30.32 ft
Depth to Water 18.34 ft

Well Condition: o.k.
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

11.98 x VF 0.17 = 2.04 x 3 (case volume) = Estimated Purge Volume: 6.1 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 10:02
Sampling Time: 10:25 A.m (1025)
Purging Flow Rate: 1 gpm
Did well de-water? _____

Weather Conditions: Clear
Water Color: Clear Odor: None
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:11</u>	<u>2</u>	<u>7.27</u>	<u>6.59</u>	<u>71.6</u>	_____	_____	_____
<u>10:13</u>	<u>4</u>	<u>7.34</u>	<u>6.56</u>	<u>71.7</u>	_____	_____	_____
<u>10:15</u>	<u>6.5</u>	<u>7.38</u>	<u>6.54</u>	<u>72.2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0752

Job#: 180066

Address: 800 Harrison St.

Date: 7-30-01

City: Oakland, CA.

Sampler: Joe

Well ID MW-3

Well Condition: o.k.

Well Diameter 2 in

Hydrocarbon Thickness: 0 in Amount Bailed (product/water): 0 (gal)

Total Depth 30.46 ft

Depth to Water 17.38 ft

Volume	2" = 0.17	3" = 0.38	4" = 0.66
Factor (VF)	6" = 1.50	12" = 5.80	

13.08 x VF 0.17 = 2.22 x 3 (case volume) = Estimated Purge Volume: 7 (gal)

Purge Equipment: Disposable Bailer
Bailer
Stack
~~Suction~~
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 11:35

Weather Conditions: Clear

Sampling Time: 11:56 A.M. (1156)

Water Color: clear Odor: yes

Purging Flow Rate: 1 gpm

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:44</u>	<u>2.5</u>	<u>7.07</u>	<u>3.28</u>	<u>72.1</u>	_____	_____	_____
<u>11:46</u>	<u>5</u>	<u>6.95</u>	<u>3.20</u>	<u>72.2</u>	_____	_____	_____
<u>11:48</u>	<u>7</u>	<u>7.06</u>	<u>3.24</u>	<u>71.9</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3Y0A</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 0752 Job#: 180066
 Address: 800 Harrison St. Date: 7-30-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-4 Well Condition: o.k.

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 32.37 ft.
 Depth to Water 16.88 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

15.49 x VF 0.17 = 2.63 x 3 (case volume) = Estimated Purge Volume: 8 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 8:02 Weather Conditions: Clear
 Sampling Time: 8:26 A.M. (0826) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}^\circ\text{C}$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:11</u>	<u>2.5</u>	<u>7.66</u>	<u>10.12</u>	<u>73.1</u>	_____	_____	_____
<u>8:13</u>	<u>5</u>	<u>7.51</u>	<u>10.11</u>	<u>72.8</u>	_____	_____	_____
<u>8:15</u>	<u>8</u>	<u>7.46</u>	<u>10.14</u>	<u>72.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 0752 Job#: 180066
 Address: 800 Harrison St. Date: 7-30-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-5 Well Condition: o.k.
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0 in. (product/water): 0 (gal.)
 Total Depth 31.64 ft.
 Depth to Water 17.12 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.52 x VF 0.17 = 2.47 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 11:08 Weather Conditions: Clear
 Sampling Time: 11:28 A.M. (1128) Water Color: clear Odor: yes
 Purging Flow Rate: 1 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:15</u>	<u>2.5</u>	<u>7.10</u>	<u>3.12</u>	<u>71.6</u>			
<u>11:17</u>	<u>5</u>	<u>7.11</u>	<u>3.16</u>	<u>71.6</u>			
<u>11:19</u>	<u>7.5</u>	<u>7.13</u>	<u>3.18</u>	<u>71.7</u>			
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3YOK</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 0752 Job#: 180066
 Address: 800 Harrison St. Date: 7-30-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-6 Well Condition: o.k.
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 30.88 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 16.49 ft. Factor (VF) 6" = 1.50 12" = 5.80

14.39 x VF 0.17 = 2.45 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 7:26 Weather Conditions: Clear
 Sampling Time: 7:52 A.M. (0752) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:35</u>	<u>2.5</u>	<u>7.71</u>	<u>9.43</u>	<u>72.1</u>			
<u>7:37</u>	<u>5</u>	<u>7.54</u>	<u>9.42</u>	<u>72.0</u>			
<u>7:39</u>	<u>7.5</u>	<u>7.47</u>	<u>9.39</u>	<u>72.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3V0A</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 0752 Job#: 180066
 Address: 800 Harrison St. Date: 7-30-01
 City: Oakland, CA. Sampler: Joe

Well ID: MW-7 Well Condition: o.k.
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth: 31.46 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 16.79 ft. Factor (VF) 6" = 1.50 12" = 5.80

14.67 x VF 0.17 = 2.49 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 9:32 Weather Conditions: Clear
 Sampling Time: 9:53 A.M. (0953) Water Color: clear Odor: mannish
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:40</u>	<u>2.5</u>	<u>7.60</u>	<u>11.80</u>	<u>72.3</u>			
<u>9:42</u>	<u>5</u>	<u>7.40</u>	<u>11.77</u>	<u>73.0</u>			
<u>9:44</u>	<u>7.5</u>	<u>7.49</u>	<u>11.76</u>	<u>72.1</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3YOK</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 0752
Address: 800 Harrison St.
City: Oakland, CA.

Job#: 180066
Date: 7-30-01
Sampler: Joe

Well ID MW-8
Well Diameter 2 in.
Total Depth 27.85 ft.
Depth to Water 16.52 ft.

Well Condition: o.k.
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

11.33 x VF 0.17 = 1.93 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 9:00
Sampling Time: 9:21 A.M. (0921)
Purging Flow Rate: 1 gpm.
Did well de-water? _____

Weather Conditions: Clear
Water Color: clear Odor: None mild
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:07</u>	<u>2</u>	<u>7.40</u>	<u>10.68</u>	<u>71.9</u>	_____	_____	_____
<u>9:08</u>	<u>4</u>	<u>7.36</u>	<u>10.66</u>	<u>72.0</u>	_____	_____	_____
<u>9:10</u>	<u>6</u>	<u>7.44</u>	<u>10.61</u>	<u>72.4</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3Y0A</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____



Facility Number: UNOCAL SS #0752
 Facility Address: 800 HARRISON STREET, OAKLAND CA
 Consultant Project Number: 180066.85
 Consultant Name: Gettler-Ryan Inc. (G-R Inc.)
 Address: 6747 Sierra Court, Suite J, Dublin, CA 94568
 Project Contact (Name): Deanna L. Harding
 (Phone) 925-551-7555 (Fax Number) 925-551-7888

Contact (Name): MR. DAVID DEWITT
 (Phone): (925) 277-2384
 Laboratory Name: Sequoia Analytical
 Laboratory Release Number: _____
 Samples Collected by (Name): JOEASEMIAN
 Collection Date: 7-30-01
 Signature: [Signature]

Sample Number	Lab Sample Number	Number of Containers	Media S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks	
								TPH G+ BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
B-LB	01	1	W	G	-	HCL	Y	✓											407254
MW-1	02	3	/	/	1100	/	/	✓											
MW-2	03	1	/	/	1025	/	/	✓											
MW-3	04	1	/	/	1156	/	/	✓											
MW-4	05	1	/	/	0826	/	/	✓											
MW-5	06	1	/	/	1128	/	/	✓											
MW-6	07	1	/	/	0752	/	/	✓											
MW-7	08	1	/	/	0953	/	/	✓											
MW-8	09	1	/	/	0921	/	/	✓											

DO NOT BILL TB-LB ANALYSIS

Inquired By (Signature): <u>[Signature]</u>	Organization: <u>G-R Inc.</u>	Date/Time: <u>1000 7-30-01</u>	Received By (Signature): <u>[Signature]</u>	Organization: _____	Date/Time: <u>7/30/01</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Inquired By (Signature): _____	Organization: _____	Date/Time: _____	Received By (Signature): _____	Organization: _____	Date/Time: _____	
Inquired By (Signature): _____	Organization: _____	Date/Time: _____	Received For Laboratory By (Signature): _____	Organization: _____	Date/Time: _____	



**Sequoia
Analytical**

RECEIVED

1551 Industrial Road
San Carlos, CA 94070
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

14 August, 2001

AUG 14 2001

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568

RE: Tosco(1)
Sequoia Report: L107254

Enclosed are the results of analyses for samples received by the laboratory on 07/30/01 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #2360



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS# 0752/ 800 Harrison St., Oakland
Project Manager: Deanna Harding

Reported:
08/14/01 13:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L107254-01	Water	07/30/01 00:00	07/30/01 14:00
MW-1	L107254-02	Water	07/30/01 11:00	07/30/01 14:00
MW-2	L107254-03	Water	07/30/01 10:25	07/30/01 14:00
MW-3	L107254-04	Water	07/30/01 11:56	07/30/01 14:00
MW-4	L107254-05	Water	07/30/01 08:26	07/30/01 14:00
MW-5	L107254-06	Water	07/30/01 11:28	07/30/01 14:00
MW-6	L107254-07	Water	07/30/01 07:52	07/30/01 14:00
MW-7	L107254-08	Water	07/30/01 09:53	07/30/01 14:00
MW-8	L107254-09	Water	07/30/01 09:21	07/30/01 14:00

Sequoia Analytical - San Carlos

Latonya Pelt, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS# 0752/ 800 Harrison St., Oakland
Project Manager: Deanna Harding

Reported:
08/14/01 13:54

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L107254-01) Water Sampled: 07/30/01 00:00 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H09002	08/09/01	08/09/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.9 %	70-130		"	"	"	"	
MW-1 (L107254-02) Water Sampled: 07/30/01 11:00 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H09002	08/09/01	08/09/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	350	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.5 %	70-130		"	"	"	"	
MW-2 (L107254-03) Water Sampled: 07/30/01 10:25 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H13002	08/13/01	08/13/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	67	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	70-130		"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS# 0752/ 800 Harrison St., Oaklan
Project Manager: Deanna Harding

Reported:
08/14/01 13:54

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L107254-04) Water Sampled: 07/30/01 11:56 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	290	50	ug/l	1	1H13002	08/13/01	08/13/01	DHS LUFT	P-03
Benzene	4.6	0.50	"	"	"	"	"	"	
Toluene	4.1	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	3.4	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	23	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		113 %	70-130		"	"	"	"	
MW-4 (L107254-05) Water Sampled: 07/30/01 08:26 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H13003	08/13/01	08/13/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	4.9	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.1 %	70-130		"	"	"	"	
MW-5 (L107254-06) Water Sampled: 07/30/01 11:28 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	1900	120	ug/l	2.5	1H13003	08/13/01	08/13/01	DHS LUFT	P-03
Benzene	82	1.2	"	"	"	"	"	"	
Toluene	24	1.2	"	"	"	"	"	"	
Ethylbenzene	6.9	1.2	"	"	"	"	"	"	
Xylenes (total)	13	1.2	"	"	"	"	"	"	
Methyl tert-butyl ether	370	6.2	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		111 %	70-130		"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS# 0752/ 800 Harrison St., Oakland
Project Manager: Deanna Harding

Reported:
08/14/01 13:54

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (L107254-07) Water Sampled: 07/30/01 07:52 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H10002	08/10/01	08/10/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.4 %	70-130		"	"	"	"	
MW-7 (L107254-08) Water Sampled: 07/30/01 09:53 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H10002	08/10/01	08/10/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.6 %	70-130		"	"	"	"	
MW-8 (L107254-09) Water Sampled: 07/30/01 09:21 Received: 07/30/01 14:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H13003	08/13/01	08/13/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	2.7	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.5 %	70-130		"	"	"	"	



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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1H09002 - EPA 5030B [P/T]

Blank (1H09002-BLK1)

Prepared & Analyzed: 08/09/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.49		"	10.0		94.9	70-130			

LCS (1H09002-BS1)

Prepared & Analyzed: 08/09/01

Benzene	10.1	0.50	ug/l	10.0		101	70-130			
Toluene	9.82	0.50	"	10.0		98.2	70-130			
Ethylbenzene	10.0	0.50	"	10.0		100	70-130			
Xylenes (total)	29.9	0.50	"	30.0		99.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.20		"	10.0		92.0	70-130			

LCS (1H09002-BS2)

Prepared & Analyzed: 08/09/01

Purgeable Hydrocarbons	255	50	ug/l	250		102	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.0		"	10.0		100	70-130			

Batch 1H10002 - EPA 5030B [P/T]

Blank (1H10002-BLK1)

Prepared & Analyzed: 08/10/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.46		"	10.0		84.6	70-130			

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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H10002 - EPA 5030B [P/T]										
Prepared & Analyzed: 08/10/01										
LCS (1H10002-BS1)										
Benzene	9.22	0.50	ug/l	10.0		92.2	70-130			
Toluene	8.59	0.50	"	10.0		85.9	70-130			
Ethylbenzene	8.75	0.50	"	10.0		87.5	70-130			
Xylenes (total)	26.8	0.50	"	30.0		89.3	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.78		"	10.0		87.8	70-130			
Prepared & Analyzed: 08/10/01										
LCS (1H10002-BS2)										
Purgeable Hydrocarbons	229	50	ug/l	250		91.6	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.37		"	10.0		93.7	70-130			
Prepared & Analyzed: 08/10/01										
Matrix Spike (1H10002-MS1)										
Source: L107254-07										
Purgeable Hydrocarbons	229	50	ug/l	250	ND	91.6	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.63		"	10.0		96.3	70-130			
Prepared & Analyzed: 08/10/01										
Matrix Spike Dup (1H10002-MSD1)										
Source: L107254-07										
Purgeable Hydrocarbons	225	50	ug/l	250	ND	90.0	60-140	1.76	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.74		"	10.0		97.4	70-130			
Batch 1H13002 - EPA 5030B [P/T]										
Prepared & Analyzed: 08/13/01										
Blank (1H13002-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.49		"	10.0		94.9	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H13002 - EPA 5030B [P/T]										
Prepared & Analyzed: 08/13/01										
LCS (1H13002-BS1)										
Benzene	10.2	0.50	ug/l	10.0		102	70-130			
Toluene	9.93	0.50	"	10.0		99.3	70-130			
Ethylbenzene	10.1	0.50	"	10.0		101	70-130			
Xylenes (total)	30.3	0.50	"	30.0		101	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.71		"	10.0		97.1	70-130			
Prepared & Analyzed: 08/13/01										
LCS (1H13002-BS2)										
Purgeable Hydrocarbons	225	50	ug/l	250		90.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.1		"	10.0		101	70-130			
Prepared & Analyzed: 08/13/01										
Matrix Spike (1H13002-MS1) Source: MKH0179-01										
Purgeable Hydrocarbons	218	50	ug/l	250	ND	87.2	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.1		"	10.0		111	70-130			
Prepared & Analyzed: 08/13/01										
Matrix Spike Dup (1H13002-MSD1) Source: MKH0179-01										
Purgeable Hydrocarbons	228	50	ug/l	250	ND	91.2	60-140	4.48	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.9		"	10.0		109	70-130			
Batch 1H13003 - EPA 5030B [P/T]										
Prepared & Analyzed: 08/13/01										
Blank (1H13003-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.40		"	10.0		84.0	70-130			

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Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H13003 - EPA 5030B [P/T]										
LCS (1H13003-BS1) Prepared & Analyzed: 08/13/01										
Benzene	8.14	0.50	ug/l	10.0		81.4	70-130			
Toluene	8.48	0.50	"	10.0		84.8	70-130			
Ethylbenzene	8.69	0.50	"	10.0		86.9	70-130			
Xylenes (total)	26.0	0.50	"	30.0		86.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.39		"	10.0		83.9	70-130			
LCS (1H13003-BS2) Prepared & Analyzed: 08/13/01										
Purgeable Hydrocarbons	190	50	ug/l	250		76.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.7		"	10.0		107	70-130			
Matrix Spike (1H13003-MS1) Source: MKH0201-02 Prepared & Analyzed: 08/13/01										
Benzene	10.3	0.50	ug/l	10.0	ND	102	60-140			
Toluene	10.7	0.50	"	10.0	ND	105	60-140			
Ethylbenzene	10.6	0.50	"	10.0	ND	106	60-140			
Xylenes (total)	31.3	0.50	"	30.0	ND	104	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103	70-130			
Matrix Spike Dup (1H13003-MSD1) Source: MKH0201-02 Prepared & Analyzed: 08/13/01										
Benzene	10.6	0.50	ug/l	10.0	ND	105	60-140	2.87	25	
Toluene	10.8	0.50	"	10.0	ND	106	60-140	0.930	25	
Ethylbenzene	10.3	0.50	"	10.0	ND	103	60-140	2.87	25	
Xylenes (total)	31.7	0.50	"	30.0	ND	106	60-140	1.27	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.71		"	10.0		97.1	70-130			



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Notes and Definitions

P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference