



# GETTLER-RYAN INC.

## TRANSMITTAL

October 9, 2001  
G-R #180105

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

CC: Mr. Douglas Lee  
Gettler-Ryan Inc.  
Dublin, California 94568

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

RE: Tosco (Unocal) Service Station  
#3292  
15008 East 14th Street  
San Leandro, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 1, 2001	Groundwater Monitoring and Sampling Report Third Quarter - Event of August 24, 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 **October 23, 2001**, this report will be distributed to the following:

cc: Mr. Scott Seery, Alameda County Health Care Services, 1131 Harbor Bay Parkway Alameda, CA 94501

Enclosure

trans/3292.dbd

OCT 25 2001



# GETTLER-RYAN INC.

October 1, 2001  
G-R Job #180105

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

**RE: Third Quarter Event of August 24, 2001**  
Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #3292  
15008 East 14th Street  
San Leandro, 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 for the referenced site are summarized in Table 1 and Dissolved Oxygen Concentrations are summarized in Table 2. Joint Groundwater Monitoring Data from previous events are summarized in Tables 4 and 5. Oxygenate Compounds are presented in Table 3. 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 and 3. 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

Douglas J. Lee  
Senior Geologist, R.G. No. 6882

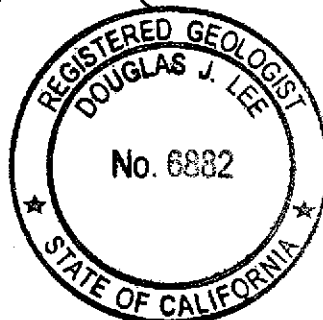
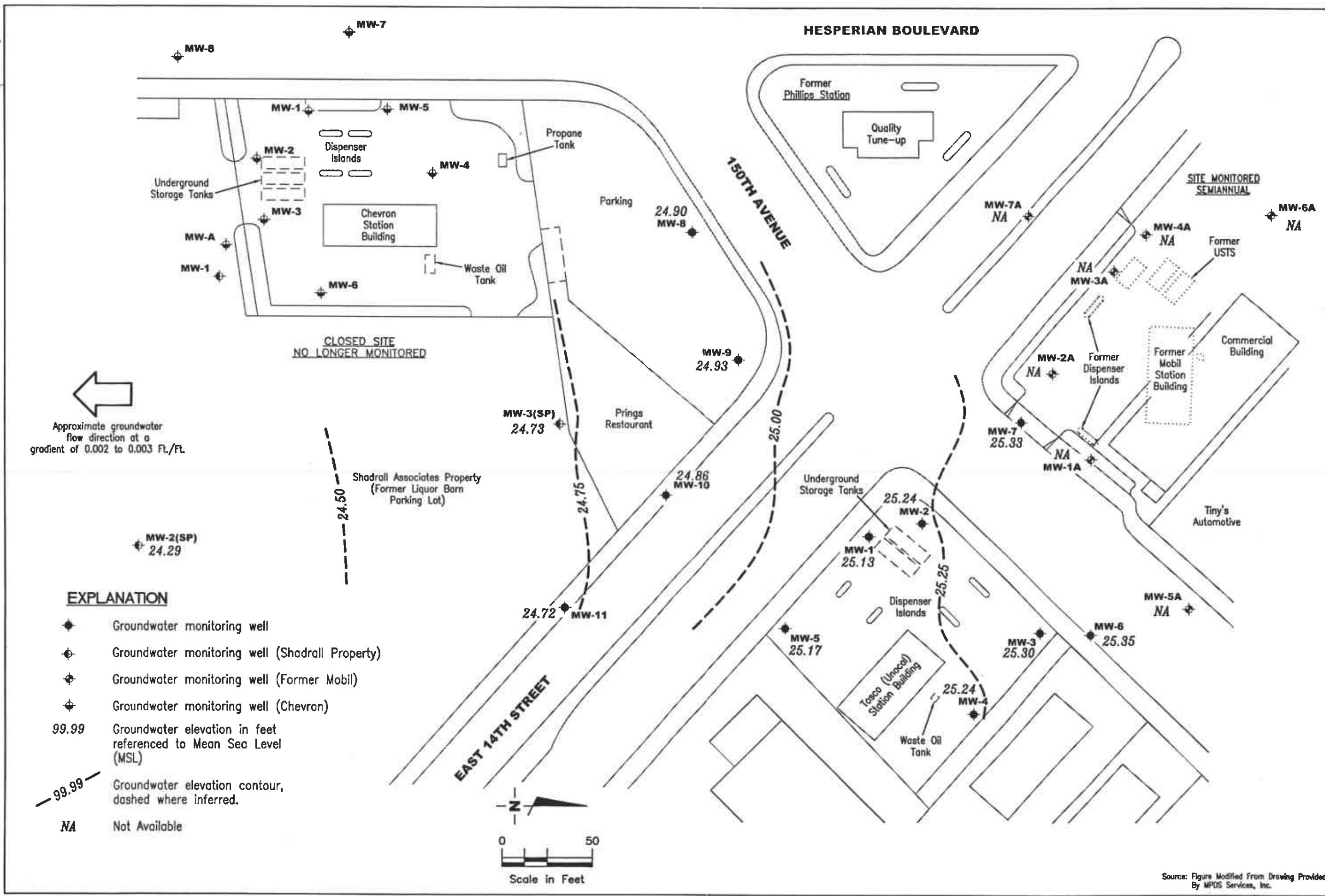


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Dissolved Oxygen Concentrations  
Table 3: Groundwater Analytical Results - Oxygenate Compounds  
Table 4: Joint Groundwater Monitoring Data - Former Mobil Facility  
Table 5: Joint Groundwater Monitoring Data - Chevron Facility #9-2013  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

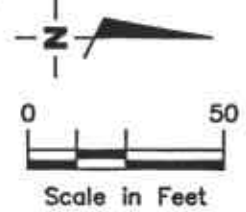
3292.qml



←  
Approximate groundwater  
flow direction at a  
gradient of 0.002 to 0.003 Ft./Ft.

**EXPLANATION**

- ◆ Groundwater monitoring well
- ◆ Groundwater monitoring well (Shadrall Property)
- ◆ Groundwater monitoring well (Former Mobil)
- ◆ Groundwater monitoring well (Chevron)
- 99.99 Groundwater elevation in feet  
referenced to Mean Sea Level  
(MSL)
- 99.99 - Groundwater elevation contour,  
dashed where inferred.
- NA Not Available

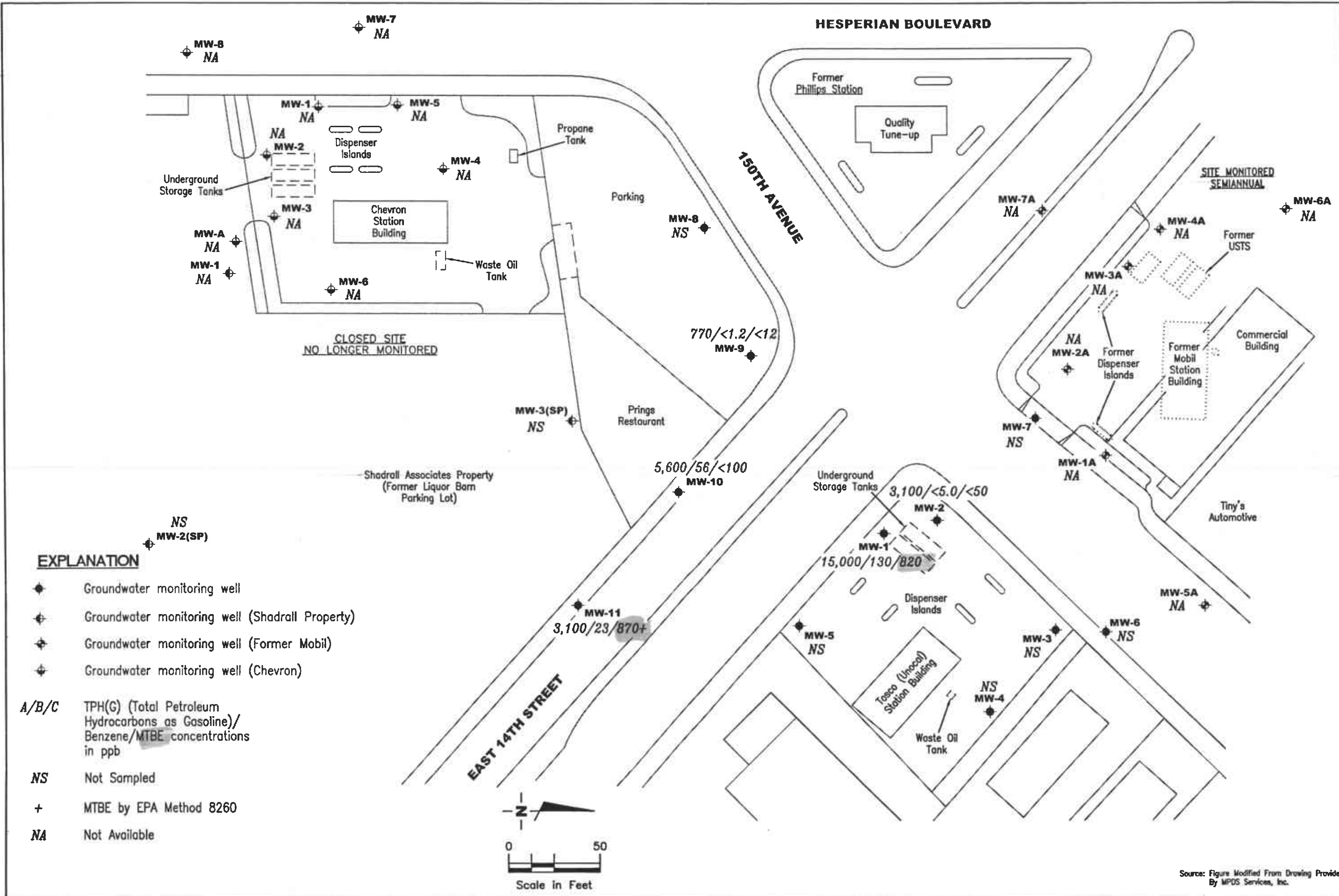


**POTENTIOMETRIC MAP**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

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

JOB NUMBER 180105  
 FILE NAME: P:\Environ\Tosco\3292\001-3292.DWG | Layout Tab: Pot3  
 REVIEWED BY  
 DATE August 24, 2001  
 REVISED DATE

Source: Figure Modified From Drawing Provided  
 By MPDS Services, Inc.



**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

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

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	05/04/91	--	7.0-19.0	--	31,000	74	20	920	1,500	--
	09/19/91	--		--	26,000	130	16	1,300	1,800	--
	12/18/91	--		--	17,000	160	20	1,400	1,600	--
	03/17/92	--		--	23,000	320	19	1,000	940	--
	05/19/92	--		--	29,000	650	370	1,100	1,200	--
	08/20/92	--		--	18,000	230	22	640	950	--
36.72	09/16/92	13.67		23.05	--	--	--	--	--	--
	10/12/92	14.07		22.65	--	--	--	--	--	--
	11/10/92	13.96		22.76	18,000	220	ND	690	830	--
	12/10/92	13.15		23.57	--	--	--	--	--	--
	01/15/93	10.02		26.70	--	--	--	--	--	--
	02/20/93	9.01		27.71	19,000	190	ND	880	620	--
	03/18/93	9.48		27.24	--	--	--	--	--	--
	04/20/93	9.15		27.57	--	--	--	--	--	--
	05/21/93	9.80		26.92	27,000	150	200	1,200	950	--
	06/22/93	10.33		26.39	--	--	--	--	--	--
	07/23/93	10.79		25.93	--	--	--	--	--	--
	08/23/93	11.27		25.45	24,000	160	110	840	810	--
	36.37	09/24/93	11.35		25.02	--	--	--	--	--
11/23/93		11.84		24.53	18,000	210	63	900	620	--
02/24/94		9.45		26.92	18,000	74	30	940	480	--
05/25/94 <sup>3</sup>		10.45		25.92	6,400	72	ND	170	67	--
08/23/94		11.98		24.39	24,000	130	57	970	320	--
11/23/94		11.17		25.20	23,000	180	44	970	270	--
02/03/95		8.01		28.36	20,000	77	17	950	390	--
05/10/95		8.51		27.86	16,000	230	27	880	630	--
08/02/95		10.00		26.37	18,000	190	ND	860	590	--
11/02/95		11.11		25.26	--	--	--	--	--	--
11/20/95 <sup>4</sup>		11.19		25.18	20,000	180	ND	960	450	970
02/08/96		7.74		28.63	15,000	43	16	940	410	5,200
05/08/96		8.50		27.87	16,000	37	16	930	410	1,600
08/09/96	9.72		26.65	2,300	25	ND	77	39	1,200	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
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 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	11/07/96	10.74	7.0-19.0	25.63	38,000	140	ND	1,900	5,600	ND
(cont)	02/10-11/97	7.92		28.45	7,300	91	ND	170	68	1,700
	05/07/97	9.24		27.13	11,000	120	ND	470	110	1,200
	08/05/97	10.20		26.17	530 <sup>1</sup>	5.9	ND	5.6	ND	430
	11/04/97	10.71		25.66	4,100	50	7.0	64	14	97
	02/12/98	6.27		30.10	8,500	160	ND <sup>7</sup>	550	ND <sup>7</sup>	1,900
36.34	05/15/98	7.62		28.72	5,600	57	ND <sup>7</sup>	290	ND <sup>7</sup>	1,500
	08/12/98	8.85		27.49	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	5,800
	11/12/98	9.71		26.63	ND <sup>7</sup>	16	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	12,000/13,000 <sup>12</sup>
	03/01/99	7.85		28.49	5,700	43	ND <sup>7</sup>	320	ND <sup>7</sup>	5,000/9,600 <sup>12</sup>
	05/12/99	8.70		27.64	ND <sup>7</sup>	36	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	12,000/21,000 <sup>12</sup>
	08/11/99	9.81		26.53	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	5,760/8,650 <sup>12</sup>
	11/04/99	10.72		25.62	1,640 <sup>11</sup>	11.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	3,330/3,630 <sup>18</sup>
	02/29/00	7.31		29.03	195 <sup>19</sup>	ND	ND	ND	ND	580/657 <sup>20</sup>
	05/08/00	8.27		28.07	9,010 <sup>17</sup>	60.5	ND <sup>7</sup>	402	ND <sup>7</sup>	2,260/1,780 <sup>12</sup>
	08/08/00	9.85		26.49	2,060 <sup>17</sup>	34.8	ND <sup>7</sup>	38.7	ND <sup>7</sup>	1,710/1,990 <sup>18</sup>
	11/06/00	10.05		26.29	2,300 <sup>11</sup>	19.3	ND <sup>7</sup>	4.37	ND <sup>7</sup>	592
	02/07/01	9.64		26.70	2,700 <sup>17</sup>	25	ND <sup>7</sup>	38	ND <sup>7</sup>	1,500/840 <sup>12</sup>
	05/09/01	9.81		26.53	5,550 <sup>11</sup>	42.7	ND <sup>7</sup>	48.4	ND <sup>7</sup>	605/431 <sup>18</sup>
	08/24/01	11.21		25.13	15,000 <sup>11</sup>	130	<20	170	<20	820
MW-2	05/04/91	--	7.0-19.5	--	19,000	6.6	1.4	460	630	--
	09/19/91	--		--	19,000	100	6.8	790	310	--
	12/18/91	--		--	10,000	110	5.1	420	96	--
	03/17/92	--		--	16,000	110	ND	730	220	--
	05/19/92	--		--	17,000	140	87	680	170	--
	08/20/92	--		--	13,000	52	ND	660	70	--
36.89	09/16/92	13.80		23.09	--	--	--	--	--	--
	10/12/92	14.19		22.70	--	--	--	--	--	--
	11/10/92	14.06		22.83	11,000	36	7.2	570	45	--
	12/10/92	13.21		23.68	--	--	--	--	--	--

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WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	01/15/93	10.12	7.0-19.5	26.77	--	--	--	--	--	--
(cont)	02/20/93	9.07		27.82	1,500	2.9	3.8	9.1	ND	--
	03/18/93	9.55		27.34	--	--	--	--	--	--
	04/20/93	9.19		27.70	--	--	--	--	--	--
	05/21/93	9.84		27.05	9,500	37	ND	470	62	--
	06/22/93	10.37		26.52	--	--	--	--	--	--
	07/23/93	10.83		26.06	--	--	--	--	--	--
	08/23/93	11.30		25.59	15,000	110	ND	590	64	--
36.34	09/24/93	11.14		25.20	--	--	--	--	--	--
	11/23/93	11.69		24.65	11,000	80	10	480	20	--
	02/24/94 <sup>5</sup>	9.27		27.07	11,000	44	ND	580	32	--
	05/25/94	10.30		26.04	11,000	50	ND	400	22	--
	08/23/94	11.82		24.52	12,000	45	10	360	20	--
	11/23/94	10.97		25.37	15,000	61	24	440	ND	--
	02/03/95	7.87		28.47	9,700	5.7	ND	250	10	--
	05/10/95	8.38		27.96	7,500	56	4.7	310	33	--
	08/02/95	9.36		26.98	8,200	53	22	220	25	--
	11/02/95	10.95		25.39	5,000	56	4.5	170	7.7	110
	02/08/96	7.52		28.82	7,200	ND	ND	170	ND	ND
	05/08/96	8.21		28.13	8,400	5.6	9.0	170	10	130
	08/09/96	9.54		26.80	3,100	24	ND	80	ND	64
	11/07/96	10.69		25.65	36,000	140	ND	1,900	5,600	ND
	02/10-11/97	7.75		28.59	4,600	27	ND	53	ND	ND
	05/07/97	9.14		27.20	5,300	61	ND	78	20	180
	08/05/97	10.23		26.11	3,100	35	ND	13	ND	58
	11/04/97	10.65		25.69	1,200	16	ND	11	25	53
	02/12/98	6.20		30.14	630	12	ND <sup>7</sup>	7.3	ND <sup>7</sup>	48
36.30	05/15/98	7.50		28.80	3,600	19	ND <sup>7</sup>	33	ND <sup>7</sup>	72
	08/12/98	8.82		27.48	3,100	44	6.1	15	5.7	270
	11/12/98	9.60		26.70	3,200 <sup>13</sup>	44	ND <sup>7</sup>	15	ND <sup>7</sup>	180
	03/01/99	7.81		28.49	3,600	45	6.2	7.5	ND <sup>7</sup>	570
	05/12/99	8.65		27.65	3,100	65	ND <sup>7</sup>	15	17	450

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WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	08/11/99	9.95	7.0-19.5	26.35	3,260	33.6	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	154
(cont)	11/04/99	10.78		25.52	3,160 <sup>11</sup>	38.9	7.10	ND <sup>7</sup>	ND <sup>7</sup>	120
	02/29/00	7.44		28.86	3,770 <sup>11</sup>	13.5	ND <sup>7</sup>	12.0	ND <sup>7</sup>	105
	05/08/00	8.42		27.88	3,840 <sup>11</sup>	ND <sup>7</sup>	ND <sup>7</sup>	9.54	ND <sup>7</sup>	ND <sup>7</sup>
	08/08/00	9.66		26.64	3,080 <sup>11</sup>	40.8	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	149
	11/06/00	9.79		26.51	2,510 <sup>11</sup>	38.8	4.42	ND <sup>7</sup>	ND <sup>7</sup>	82.6
	02/07/01	9.43		26.87	9,300 <sup>19</sup>	140	120	71	140	790
	05/09/01	9.65		26.65	3,300 <sup>11</sup>	37.9	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	120
	<b>08/24/01</b>	<b>11.06</b>		<b>25.24</b>	<b>3,100<sup>19</sup></b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;50</b>
<b>MW-3</b>	05/04/91	--	7.0-22.5	--	9,100	2.0	ND	55	180	--
	09/19/91	--		--	7,600	ND	13	190	170	--
	12/18/91	--		--	5,900	54	6.4	110	64	--
	03/17/92	--		--	5,800	66	7.5	100	58	--
	05/19/92	--		--	3,400	25	3.6	66	41	--
	08/20/92	--		--	4,500	58	ND	65	35	--
36.84	09/16/92	13.74		23.10	--	--	--	--	--	--
	10/12/92	14.13		22.71	--	--	--	--	--	--
	11/10/92	14.03		22.81	3,400	37	ND	85	34	--
	12/10/92	13.15		23.69	--	--	--	--	--	--
	01/15/93	10.07		26.77	--	--	--	--	--	--
	02/20/93	9.02		27.82	1,600	12	18	8.9	12	--
	03/18/93	9.50		27.34	--	--	--	--	--	--
	04/20/93	9.02		27.82	--	--	--	--	--	--
	05/21/93	9.70		27.14	2,600	42	ND	43	15	--
	06/22/93	10.28		26.56	--	--	--	--	--	--
	07/23/93	10.74		26.10	--	--	--	--	--	--
	08/23/93	11.24		25.60	2,900	25	ND	50	18	--
36.42	09/24/93	11.20		25.22	--	--	--	--	--	--
	11/23/93	11.78		24.64	2,300	34	ND	24	5.6	--
	02/24/94	9.21		27.21	3,400	46	ND	53	11	--



**Table 1**  
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 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (pph)	B (pph)	T (pph)	E (pph)	X (pph)	MTBE (pph)
MW-3	05/25/94	10.34	7.0-22.5	26.08	1,400	20	ND	ND	ND	--
(cont)	08/23/94	11.88		24.54	2,900	37	49	14	2.9	--
	11/23/94	10.98		25.44	3,200	48	ND	22	ND	--
	02/03/95	7.82		28.60	780	13	ND	2.1	ND	--
	05/10/95	8.38		28.04	1,300	ND	ND	ND	ND	--
	08/02/95	9.49		26.93	1,500	6.3	ND	16	2.1	--
	11/02/95	11.00		25.42	1,100	5.2	2.1	7.4	0.5	15
	02/08/96	7.41		29.01	450	ND	ND	ND	ND	ND
	05/08/96	8.20		28.22	590	ND	11	10	ND	ND
	08/09/96	9.53		26.89	ND	ND	ND	ND	ND	ND
	11/07/96	10.96		25.46	140	1.2	ND	ND	ND	5.6
	02/10-11/97	7.71		28.71	89	1.8	ND	ND	ND	ND
	05/07/97	9.17		27.25	52 <sup>2</sup>	ND	ND	ND	5.1	5.1
	08/05/97	10.27		26.15	ND	ND	ND	ND	ND	ND
	11/04/97	10.83		25.59	93	1.8	ND	ND	ND	6.2
	02/12/98	6.00		30.42	56	0.59	ND	ND	ND	2.7
36.42	05/15/98	7.42		29.00	130 <sup>8</sup>	0.68	ND	ND	0.63	10
	08/12/98	8.84		27.58	50	ND	ND	ND	ND	ND
	11/12/98	9.57		26.85	60 <sup>13</sup>	ND	ND	ND	ND	3.8
	03/01/99	8.74		27.68	66	ND	ND	ND	ND	3.2
	05/12/99	8.92		27.50	ND	ND	ND	ND	ND	ND
	08/11/99	10.18		26.24	ND	ND	ND	ND	ND	ND
	11/04/99	11.06		25.36	ND	ND	ND	ND	ND	ND
	02/29/00	NOT MONITORED/SAMPLED			--	--	--	--	--	--
	08/08/00	10.03		26.39	--	--	--	--	--	--
	11/06/00	10.10		26.32	--	--	--	--	--	--
	02/07/01	9.81		26.61	--	--	--	--	--	--
	05/09/01	9.58		26.84	--	--	--	--	--	--
	08/24/01	11.12		25.30	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. hgs)	GWE (mst)	TPII-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-4	05/04/91	--	7.0-19.5	--	6,300	ND	ND	2.8	61	--	
	09/19/91	--		--	1,800	0.83	ND	54	46	--	
	12/18/91	--		--	2,500	28	2.5	54	22	--	
	03/17/92	--		--	1,800	3.7	1.4	90	21	--	
	05/19/92	--		--	2,000	20	3.5	42	8.3	--	
	08/20/92	--		--	1,000	15	ND	11	3.0	--	
37.40	09/16/92	14.31		23.09	--	--	--	--	--	--	
	10/12/92	14.72		22.68	--	--	--	--	--	--	
	11/10/92	14.57		22.83	690	9.1	ND	16	2.8	--	
	12/10/92	13.67		23.73	--	--	--	--	--	--	
	01/15/93	10.62		26.78	--	--	--	--	--	--	
	02/20/93	9.59		27.81	2,400	40	2.1	33	ND	--	
	03/18/93	9.97		27.43	--	--	--	--	--	--	
	04/20/93	9.67		27.73	--	--	--	--	--	--	
	05/21/93	10.32		27.08	1,900	31	ND	20	4.5	--	
	06/22/93	10.91		26.49	--	--	--	--	--	--	
	07/23/93	11.38		26.02	--	--	--	--	--	--	
	08/23/93	11.86		25.54	1,200	5.0	ND	16	ND	--	
	37.04	09/24/93	11.85		25.19	--	--	--	--	--	--
		11/23/93	12.44		24.60	720	10	ND	8.7	ND	--
02/24/94		9.89		27.15	1,300	8.9	ND	20	ND	--	
05/25/94		11.02		26.02	1,700	22	ND	4.5	ND	--	
08/23/94		12.57		24.47	690	9.2	1.3	7.1	1.9	--	
11/23/94		11.65		25.39	420	5.0	1.1	4.2	1.2	--	
02/03/95		8.52		28.52	620	6.4	ND	9.3	ND	--	
05/10/95		9.97		27.07	280	2.8	ND	2.7	2.4	--	
08/02/95		10.18		26.86	290	3.6	ND	2.8	ND	--	
11/02/95		11.67		25.37	42,000	390	210	2,800	6,300	270	
02/08/96		8.15		28.89	130	2.1	ND	1.5	0.69	ND	
05/08/96		INACCESSIBLE		--	--	--	--	--	--	--	
08/09/96		10.24		26.80	ND	ND	ND	ND	ND	ND	
11/07/96	11.58		25.46	ND	ND	ND	ND	ND	ND		

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	02/10-11/97	8.45	7.0-19.5	28.59	ND	ND	ND	ND	ND	ND
(cont)	05/07/97	9.85		27.19	ND	ND	ND	ND	ND	ND
	08/05/97	11.04		26.00	50	0.76	ND	ND	ND	ND
	11/04/97	11.46		25.58	ND	ND	ND	ND	ND	ND
	02/12/98	5.75		31.29	ND	ND	ND	ND	ND	ND
37.04	05/15/98	7.28		29.76	ND	ND	ND	ND	ND	ND
	08/12/98	9.85		27.19	ND	ND	ND	ND	ND	ND
	11/12/98	10.28		26.76	ND	ND	ND	ND	ND	ND
	03/01/99	8.51		28.53	ND	ND	ND	ND	ND	ND
	05/12/99	9.32		27.72	ND	ND	ND	ND	ND	ND
	08/11/99	10.65		26.39	ND	ND	ND	ND	ND	ND
	11/04/99	11.48		25.56	ND	ND	ND	ND	ND	ND
	02/29/00	NOT MONITORED/SAMPLED			--	--	--	--	--	--
	08/08/00	10.67		26.37	--	--	--	--	--	--
	11/06/00	10.56		26.48	--	--	--	--	--	--
	02/07/01	10.40		26.64	--	--	--	--	--	--
	05/09/01	9.16		27.88	--	--	--	--	--	--
	08/24/01	11.80		25.24	--	--	--	--	--	--
MW-5	05/04/91	--	7.0-22.5	--	69,000	1,400	2,500	3,500	15,000	--
	09/19/91	--		--	57,000	1,600	2,700	5,200	20,000	--
	12/18/91	--		--	31,000	1,600	3,100	4,800	19,000	--
	03/17/92	--		--	81,000	850	1,600	4,800	18,000	--
	05/19/92	--		--	84,000	760	1,500	4,000	17,000	--
	08/20/92	--		--	58,000	660	1,700	4,200	19,000	--
36.40	09/16/92	13.37		23.03	--	--	--	--	--	--
	10/12/92	13.75		22.65	--	--	--	--	--	--
	11/10/92	13.68		22.72	57,000	800	1,800	4,400	18,000	--
	12/10/92	12.58		23.82	--	--	--	--	--	--
	01/15/93	9.71		26.69	--	--	--	--	--	--
	02/20/93	8.69		27.71	17,000	75	ND	1,000	620	--

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**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	03/18/93	9.16	7.0-22.5	27.24	--	--	--	--	--	--
(cont)	04/20/93	8.88		27.52	--	--	--	--	--	--
	05/21/93	9.56		26.84	55,000	ND	160	3,500	12,000	--
	06/22/93	10.05		26.35	--	--	--	--	--	--
	07/23/93	10.53		25.87	--	--	--	--	--	--
	08/23/93	10.98		25.42	61,000	340	380	3,600	14,000	--
35.94	09/24/93	10.94		25.00	--	--	--	--	--	--
	11/23/93	11.45		24.49	46,000	290	310	4,100	15,000	--
	02/24/94	9.02		26.92	57,000	140	400	4,400	16,000	--
	05/25/94	10.03		25.91	53,000	ND	ND	4,000	14,000	--
	08/23/94	11.57		24.37	61,000	360	380	4,800	17,000	--
	11/23/94	10.71		25.23	46,000	230	260	3,900	14,000	--
	02/03/95	7.69		28.25	56,000	140	330	3,500	13,000	--
	05/10/95	8.20		27.74	27,000	160	170	2,200	5,200	--
	08/02/95	9.23		26.71	65,000	260	300	3,500	12,000	--
	11/02/95	10.70		25.24	240	0.76	ND	1.1	ND	ND
	02/08/96	7.36		28.58	54,000	210	150	3,400	12,000	170
	05/08/96	8.25		27.69	52,000	170	200	3,600	11,000	170
	08/09/96	9.37		26.57	25,000	54	16	1,700	4,700	ND
	11/07/96	10.65		25.29	2,100	42	ND	9.3	ND	2,300
	02/10-11/97	7.63		28.31	15,000	46	29	1,400	4,100	ND
	05/07/97	8.98		26.96	38,000	120	ND	2,000	5,100	380
	08/05/97	11.08		24.86	310	1.0	ND	17	40	ND
	11/04/97	10.72		25.22	20,000	ND	ND	1,500	2,800	280
	02/12/98	6.08		29.86	33,000	120	ND <sup>7</sup>	1,700	3,800	ND <sup>7</sup>
35.92	05/15/98	7.40		28.52	30,000	ND <sup>7</sup>	ND <sup>7</sup>	2,200	4,900	ND <sup>7</sup>
	08/12/98	8.69		27.23	24,000	100	ND <sup>7</sup>	ND <sup>7</sup>	3,400	1,000
	11/12/98	9.48		26.44	13,000 <sup>13</sup>	65	ND <sup>7</sup>	1,100	1,400	780
	03/01/99	7.54		28.38	29,000	75	ND <sup>7</sup>	2,000	4,100	690
	05/12/99	8.48		27.44	19,000	110	ND <sup>7</sup>	990	1,900	330
	08/11/99	9.74		26.18	24,300	ND <sup>7</sup>	ND <sup>7</sup>	1,540	1,740	ND <sup>7</sup>
	11/04/99	10.56		25.36	19,500 <sup>17</sup>	37.1	ND <sup>7</sup>	1,300	1,030	ND <sup>7</sup>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	02/29/00	7.19	7.0-22.5	28.73	SAMPLED SEMI-ANNUALLY			--	--	--
(cont)	05/08/00	8.23		27.69	25,700 <sup>11</sup>	37.6	ND <sup>7</sup>	2,020	3,500	ND <sup>7</sup>
	08/08/00	9.51		26.41	--	--	--	--	--	--
	11/06/00	10.04		25.88	14,100 <sup>11</sup>	37.1	ND <sup>7</sup>	1,250	497	ND <sup>7</sup>
	02/07/01	9.23		26.69	--	--	--	--	--	--
	05/09/01	9.44		26.48	15,600 <sup>11</sup>	ND <sup>7</sup>	ND <sup>7</sup>	1,290	476	ND <sup>7</sup>
	08/24/01	10.75		25.17	SAMPLED SEMI-ANNUALLY			--	--	--
<b>MW-6</b>	05/19/92	--	8.0-20.0	--	1,300	2.0	2.1	ND	2.7	--
	08/20/92	--		--	280	8.4	ND	0.51	0.84	--
36.03	09/16/92	12.91		23.12	--	--	--	--	--	--
	10/12/92	13.28		22.75	--	--	--	--	--	--
	11/10/92	13.18		22.85	490	7.0	1.2	1.7	ND	--
	12/10/92	12.33		23.70	--	--	--	--	--	--
	01/15/93	9.25		26.78	--	--	--	--	--	--
	02/20/93	8.24		27.79	2,400	43	ND	33	2.0	--
	03/18/93	8.74		27.29	--	--	--	--	--	--
	04/20/93	8.12		27.91	--	--	--	--	--	--
	05/21/93	8.83		27.20	940	18	1.0	7.1	2.7	--
	06/22/93	9.38		26.65	--	--	--	--	--	--
	07/23/93	9.87		26.16	--	--	--	--	--	--
	08/23/93	10.35		25.68	1,000	9.4	2.3	5.0	2.3	--
35.67	09/24/93	10.34		25.33	--	--	--	--	--	--
	11/23/93	10.96		24.71	520	ND	1.7	1.9	0.82	--
	02/24/94 <sup>5</sup>	8.39		27.28	810	12	ND	2.6	0.77	--
	05/25/94	9.55		26.12	500	11	ND	ND	0.73	--
	08/23/94	10.97		24.70	570	8.8	2.5	3.2	2.6	--
	11/23/94	10.21		25.46	460	6.4	1.1	1.9	1.1	--
	02/03/95	6.99		28.68	660	4.8	13	1.4	ND	--
	05/10/95	7.53		28.14	470	ND	0.65	1.4	0.67	--
	08/02/95	8.68		26.99	360	3.2	ND	1.6	ND	--

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WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	11/02/95	10.20	8.0-20.0	25.47	470	ND	0.92	0.89	0.58	5.5
(cont)	02/08/96	6.66		29.01	450	3.1	ND	1.1	0.68	ND
	05/08/96	7.40		28.27	ND	ND	ND	ND	ND	ND
	08/09/96	8.72		26.95	ND	ND	ND	ND	ND	ND
	11/07/96	10.12		25.55	ND	ND	ND	ND	ND	ND
	02/10-11/97	6.88		28.79	ND	ND	ND	ND	ND	ND
	05/07/97	8.32		27.35	ND	ND	1.1	ND	ND	ND
	08/05/97	9.64		26.03	55	0.79	ND	ND	ND	ND
	11/04/97	10.30		25.37	ND	ND	ND	ND	ND	ND
	02/12/98	5.10		30.57	ND	ND	ND	ND	ND	ND
35.68	05/15/98	6.61		29.07	ND	ND	ND	ND	ND	ND
	08/12/98	8.02		27.66	ND	ND	ND	ND	ND	ND
	11/12/98	8.74		26.94	ND	ND	ND	ND	ND	ND
	03/01/99	7.22		28.46	ND	ND	ND	ND	ND	ND
	05/12/99	8.05		27.63	ND	ND	ND	ND	ND	ND
	08/11/99	9.53		26.15	ND	ND	ND	ND	ND	ND
	11/04/99	10.44		25.24	ND	ND	ND	ND	ND	ND
	02/29/00	NOT MONITORED/SAMPLED			--	--	--	--	--	--
	08/08/00	9.16		26.52	--	--	--	--	--	--
	11/06/00	9.28		26.40	--	--	--	--	--	--
	02/07/01	9.18		26.50	--	--	--	--	--	--
	05/09/01	8.76		26.92	--	--	--	--	--	--
	08/24/01	10.33		25.35	--	--	--	--	--	--
MW-7	05/19/92	--	11.0-21.5	--	17,000	540	90	1,200	1,900	--
	08/20/92	--		--	13,000	460	54	ND	3,100	--
36.40	09/16/92	13.23		23.17	--	--	--	--	--	--
	10/12/92	13.65		22.75	--	--	--	--	--	--
	11/10/92	13.54		22.86	1,800	74	ND	230	350	--
	12/10/92	12.52		23.88	--	--	--	--	--	--
	01/15/93	9.59		26.81	--	--	--	--	--	--

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 15008 East 14th Street  
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WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	02/20/93	8.55	11.0-21.5	27.85	1,800	37	4.6	11	7.7	--
(cont)	03/18/93	8.98		27.42	--	--	--	--	--	--
	04/20/93	8.52		27.88	--	--	--	--	--	--
	05/21/93	9.16		27.24	22,000	330	37	2,100	2,900	--
	06/22/93	9.66		26.74	--	--	--	--	--	--
	07/23/93	10.15		26.25	--	--	--	--	--	--
	08/23/93	10.65		25.75	33,000	360	ND	2,500	4,300	--
36.09	09/24/93	10.77		25.32	--	--	--	--	--	--
	11/23/93	11.28		24.81	19,000	310	30	2,500	2,300	--
	02/24/94 <sup>5</sup>	8.95		27.14	16,000	220	19	2,400	3,200	--
	05/25/94	10.00		26.09	14,000	200	ND	1,500	1,800	--
	08/23/94	11.43		24.66	19,000	210	50	2,000	2,800	--
	11/23/94	10.69		25.40	10,000	220	ND	1,000	730	--
	02/03/95	7.49		28.60	26,000	170	ND	2,300	3,700	--
	05/10/95	7.88		28.21	1,300	13	1.5	170	230	--
	08/02/95	9.02		27.07	15,000	200	ND	2,200	2,000	--
	11/02/95	10.55		25.54	18,000	190	9.4	2,100	2,200	72
	02/08/96	7.13		28.96	19,000	150	ND	2,100	3,000	ND
	05/08/96	7.11		28.98	13,000	130	18	1,900	1,600	85
	08/09/96	9.07		27.02	11,000	67	ND	1,700	1,800	ND
	11/07/96	10.76		25.33	32,000	160	ND	3,300	8,400	570
	02/10-11/97	7.22		28.87	7,100	55	ND	ND	620	ND
	05/07/97	8.47		27.62	6,000	74	ND	560	330	250
	08/05/97	10.25		25.84	5,000	66	ND	420	240	ND
	11/04/97	10.69		25.40	20,000	67	ND	2,300	4,300	430
	02/12/98	5.02		31.07	5,500	95	ND <sup>7</sup>	150	110	ND <sup>7</sup>
36.06	05/15/98	6.98		29.08	1,300	ND <sup>7</sup>	ND <sup>7</sup>	69	64	88
	08/12/98	8.42		27.64	1,400	12	2.3	67	ND <sup>7</sup>	30
	11/12/98	9.10		26.96	6,300 <sup>13</sup>	63	ND <sup>7</sup>	230	100	ND <sup>7</sup>
	03/01/99	7.14		28.92	1,000	24	ND <sup>7</sup>	23	26	39
	05/12/99	8.07		27.99	4,700	79	ND <sup>7</sup>	120	210	210
	08/11/99	9.44		26.62	4,700 <sup>17</sup>	61.6	ND <sup>7</sup>	58.2	23.6	187

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MW-7	11/04/99	10.38	11.0-21.5	25.68	5,980 <sup>11</sup>	56.3	ND <sup>7</sup>	44.5	21.2	194
(cont)	02/29/00	7.06		29.00	SAMPLED SEMI-ANNUALLY					--
	05/08/00	8.15		27.91	6,600 <sup>11</sup>	80.0	ND <sup>7</sup>	99.6	66.5	ND <sup>7</sup>
	08/08/00	9.21		26.85	--	--	--	--	--	--
	11/06/00	9.77		26.29	6,030 <sup>11</sup>	56.3	ND <sup>7</sup>	156	63.1	281
	02/07/01	9.02		27.04	--	--	--	--	--	--
	05/09/01	9.38		26.68	7,460 <sup>11</sup>	45.0	ND <sup>7</sup>	186	94.4	ND <sup>7</sup>
	<b>08/24/01</b>	<b>10.73</b>		<b>25.33</b>	SAMPLED SEMI-ANNUALLY					--
<b>MW-8</b>	05/19/92	--	8.0-19.0	--	5,300	28	3.3	2.6	2.1	--
	08/20/92	--		--	3,500 <sup>1</sup>	67	11	ND	ND	--
37.14	09/16/92	14.13		23.01	--	--	--	--	--	--
	10/12/92	14.51		22.63	--	--	--	--	--	--
	11/10/92	14.46		22.68	1,800	20	ND	ND	ND	--
	12/10/92	13.51		23.63	--	--	--	--	--	--
	01/15/93	10.50		26.64	--	--	--	--	--	--
	02/20/93	9.50		27.64	2,200	32	ND	42	5.0	--
	03/18/93	9.89		27.25	--	--	--	--	--	--
	04/20/93	9.91		27.23	--	--	--	--	--	--
	05/21/93	10.40		26.74	2,500	44	ND	ND	ND	--
	06/22/93	10.86		26.28	--	--	--	--	--	--
	07/23/93	11.29		25.85	--	--	--	--	--	--
	08/23/93	11.76		25.38	280 <sup>1</sup>	49	4.5	ND	ND	--
36.89	09/24/93	12.00		24.89	--	--	--	--	--	--
	11/23/93	12.38		24.51	1,800	ND	3.4	ND	ND	--
	02/24/94	10.44		26.45	1,200	10	2.3	ND	3.2	--
	05/25/94	11.12		25.77	14,000	29	ND	ND	ND	--
	08/23/94	12.61		24.28	3,200	46	18	2.0	7.2	--
	11/23/94	11.98		24.91	1,700	34	ND	ND	3.1	--
	02/03/95	9.16		27.73	800	6.1	ND	ND	ND	--
	05/10/95	9.35		27.54	1,400	15	1.5	0.65	0.84	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	08/02/95	10.40	8.0-19.0	26.49	690	8.3	1.9	ND	ND	--
(cont)	11/02/95	11.80		25.09	1,200	ND	1.9	0.56	ND	6.4
	02/08/96	8.98		27.91	--	--	--	--	--	--
	02/14/96 <sup>6</sup>	9.24		27.65	650	9.0	1.2	ND	0.52	ND
	05/08/96	9.46		27.43	1,200	0.7	35	2.2	3.0	ND
	08/09/96	10.47		26.42	350	ND	12	0.81	0.95	ND
	11/07/96	11.71		25.18	1,000	23	ND	ND	ND	ND
	02/10-11/97	8.84		28.05	630	13	ND	ND	8.1	ND
	05/07/97	10.12		26.77	1,200 <sup>1</sup>	26	3.4	ND	20	20
	08/05/97	11.26		25.63	590 <sup>1</sup>	9.8	ND	ND	ND	ND
	11/04/97	11.58		25.31	640	14	1.9	5.7	11	ND
	02/12/98	7.34		29.55	770 <sup>8</sup>	20	3.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
36.87	05/15/98	8.67		28.20	840 <sup>8</sup>	10	ND <sup>7</sup>	ND <sup>7</sup>	3.1	ND <sup>7</sup>
	08/12/98	9.78		27.09	240 <sup>10</sup>	0.75	ND	ND	ND	ND
	11/12/98	10.62		26.25	300	14	2.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	03/01/99	9.02		27.85	1,100	22	4.6	2.1	4.9	12
	05/12/99	9.65		27.22	650	17	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	08/11/99	10.85		26.02	168	6.68	ND	0.544	ND	ND
	11/04/99	11.72		25.15	1,010 <sup>11</sup>	15.8	2.28	ND <sup>7</sup>	ND <sup>7</sup>	16.2
	02/29/00	8.25		28.62	SAMPLED SEMI-ANNUALLY			--	--	--
	05/08/00	9.21		27.66	199 <sup>19</sup>	6.26	ND	ND	ND	ND
	08/08/00	10.35		26.52	--	--	--	--	--	--
	11/06/00	10.76		26.11	797 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	02/07/01	10.16		26.71	--	--	--	--	--	--
	05/09/01	10.62		26.25	695 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	08/24/01	11.97		24.90	SAMPLED SEMI-ANNUALLY			--	--	--
MW-9	05/19/92	--	8.0-19.0	--	8,100	11	ND	25	5.8	--
	08/20/92	--		--	3,800 <sup>1</sup>	37	ND	ND	ND	--
36.92	09/16/92	13.90		23.02	--	--	--	--	--	--
	10/12/92	14.28		22.64	--	--	--	--	--	--

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**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	11/10/92	14.22	8.0-19.0	22.70	4,200	ND	ND	21	23	--
(cont)	12/10/92	13.40		23.52	--	--	--	--	--	--
	01/15/93	10.24		26.68	--	--	--	--	--	--
	02/20/93	9.22		27.70	2,300	47	ND	32	ND	--
	03/18/93	9.55		27.37	--	--	--	--	--	--
	04/20/93	9.62		27.30	--	--	--	--	--	--
	05/21/93	10.16		26.76	3,200	32	ND	8.1	ND	--
	06/22/93	10.62		26.30	--	--	--	--	--	--
	07/23/93	11.07		25.85	--	--	--	--	--	--
	08/23/93	11.54		25.38	3,000	29	ND	ND	ND	--
36.29	09/24/93	11.18		25.11	--	--	--	--	--	--
	11/23/93	11.80		24.49	2,500	23	2.1	ND	ND	--
	02/24/94	9.74		26.55	2,900	35	ND	ND	ND	--
	05/25/94	10.48		25.81	ND	ND	ND	ND	ND	--
	08/23/94	11.99		24.30	2,800	28	32	ND	ND	--
	11/23/94	11.31		24.98	2,000	24	2.2	2.2	2.5	--
	02/03/95	8.45		27.84	2,100	26	2.5	ND	ND	--
	05/10/95	8.70		27.59	1,700	0.81	2.2	1.0	1.4	--
	08/02/95	9.75		26.54	1,900	26	6.6	ND	3.9	--
	11/02/95	11.16		25.13	1,600	ND	1.3	ND	ND	11
	02/08/96	8.15		28.14	1,900	ND	ND	ND	ND	ND
	05/08/96	8.75		27.54	1,700	1.9	22	1.7	2.7	ND
	08/09/96	9.84		26.45	200	ND	4.5	ND	0.58	ND
	11/07/96	11.10		25.19	920	24	ND	ND	ND	ND
	02/10-11/97	8.15		28.14	580	14	2.4	ND	ND	16
	05/07/97	9.45		26.84	810	11	3.9	1.7	9.9	13
	08/05/97	10.70		25.59	850 <sup>1</sup>	21	ND	ND	ND	33
	11/04/97	11.05		25.24	730	11	ND	5.1	11	ND
	02/12/98	6.60		29.69	820 <sup>8</sup>	23	3.2	ND <sup>7</sup>	ND <sup>7</sup>	18
36.27	05/15/98	8.01		28.26	390	5.5	1.2	ND	13	13
	08/12/98	9.18		27.09	780	14	ND	0.52	ND	12
	11/12/98	9.91		26.36	180	6.3	ND	ND	0.62	8.1

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 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPII-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	03/01/99	8.34	8.0-19.0	27.93	790 <sup>8</sup>	24	ND	ND	1.7	32
(cont)	05/12/99	9.04		27.23	930 <sup>16</sup>	13	2.2	1.2	1.5	10
	08/11/99	10.25		26.02	1,120	19.7	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	11/04/99	11.10		25.17	756 <sup>11</sup>	14.2	1.94	ND <sup>7</sup>	ND <sup>7</sup>	22.8
	02/29/00	8.12		28.15	955 <sup>19</sup>	22.9	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	05/08/00	9.09		27.18	895 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	08/08/00	10.08		26.19	630 <sup>11</sup>	18.2	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	11/06/00	10.52		25.75	712 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	02/07/01	9.78		26.49	750 <sup>17</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	66
	05/09/01	9.98		26.29	704 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	08/24/01	11.34		24.93	770 <sup>19</sup>	<1.2	<1.2	<1.2	<1.2	<12
<b>MW-10</b>	08/20/92	--	8.0-20.0	--	15,000	230	ND	1,000	350	--
36.26	09/16/92	13.28		22.98	--	--	--	--	--	--
	10/12/92	13.67		22.59	--	--	--	--	--	--
	11/10/92	13.59		22.67	15,000	300	42	3,500	330	--
	12/10/92	12.53		23.73	--	--	--	--	--	--
	01/15/93	9.60		26.66	--	--	--	--	--	--
	02/20/93	8.57		27.69	17,000	74	ND	1,000	620	--
	03/18/93	9.03		27.23	--	--	--	--	--	--
	04/20/93	9.09		27.17	--	--	--	--	--	--
	05/21/93	9.63		26.63	23,000	250	ND	3,000	240	--
	06/22/93	10.12		26.14	--	--	--	--	--	--
	07/23/93	10.54		25.72	--	--	--	--	--	--
	08/23/93	10.99		25.27	20,000	230	13	3,200	140	--
36.04	09/24/93	11.17		24.87	--	--	--	--	--	--
	11/23/93	11.67		24.37	18,000	300	10	2,800	110	--
	02/24/94	9.57		26.47	15,000	330	19	2,000	83	--
	05/25/94	10.32		25.72	14,000	240	ND	230	62	--
	08/23/94	11.81		24.23	16,000	250	41	1,800	74	--
	11/23/94	11.10		24.94	16,000	260	ND	1,600	49	--

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 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	02/03/95	8.32	8.0-20.0	27.72	17,000	310	ND	1,500	93	--
(cont)	05/10/95	8.70		27.34	12,000	260	16	1,200	54	--
	08/02/95	9.55		26.49	8,900	240	ND	780	40	--
	11/02/95	11.03		25.01	9,300	190	ND	470	1.7	110
	02/08/96	8.05		27.99	9,700	170	ND	440	ND	ND
	05/08/96	8.70		27.34	7,100	100	ND	240	ND	43
	08/09/96	9.76		26.28	4,400	59	7.5	110	6.5	73
	11/07/96	10.92		25.12	6,300	65	ND	110	ND	130
	02/10-11/97	8.10		27.94	6,800	91	ND	100	ND	210
	05/07/97	9.28		26.76	4,800	76	ND	50	ND	160
	08/05/97	10.51		25.53	4,200	52	ND	40	ND	81
	11/04/97	11.02		25.02	4,500	49	ND	63	ND	84
	02/12/98	6.85		29.19	6,200	98	ND <sup>7</sup>	91	ND <sup>7</sup>	420
36.02	05/15/98	8.05		27.97	7,200	84	ND <sup>7</sup>	84	ND <sup>7</sup>	260
	08/12/98	9.27		26.75	7,500	6.9	11	47	ND <sup>7</sup>	130
	11/12/98	10.03		25.99	4,200 <sup>13</sup>	23	ND <sup>7</sup>	24	ND <sup>7</sup>	130
	03/01/99	8.56		27.46	5,900 <sup>8</sup>	37	ND <sup>7</sup>	50	26	300
	05/12/99	8.92		27.10	7,400 <sup>16</sup>	37	ND <sup>7</sup>	32	ND <sup>7</sup>	170
	08/11/99	10.10		25.92	5,060	38.1	ND <sup>7</sup>	12.9	ND <sup>7</sup>	75.5
	11/04/99	11.03		24.99	6,190 <sup>11</sup>	76.7	8.01	13.4	ND <sup>7</sup>	234
	02/29/00	9.67		26.35	7,120 <sup>11</sup>	27.8	ND <sup>7</sup>	24.7	ND <sup>7</sup>	208
	05/08/00	10.54		25.48	5,830 <sup>11</sup>	51.7	10.6	24.7	24.8	142
	08/08/00	10.92		25.10	5,010 <sup>11</sup>	50.6	ND <sup>7</sup>	13.9	ND <sup>7</sup>	113
	11/06/00	11.34		24.68	6,260 <sup>11</sup>	47.9	ND <sup>7</sup>	12.5	ND <sup>7</sup>	118
	02/07/01	10.75		25.27	4,800 <sup>17</sup>	56	10	ND <sup>7</sup>	ND <sup>7</sup>	780
	05/09/01	9.84		26.18	6,810 <sup>11</sup>	52.4	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	161
	08/24/01	11.16		24.86	5,600 <sup>11</sup>	56	<10	<10	<10	<100

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MW-11	08/20/92	--	7.0-19.0	--	4,600 <sup>1</sup>	62	ND	ND	54	--
35.83	09/16/92	12.93		22.90	--	--	--	--	--	--
	10/12/92	13.30		22.53	--	--	--	--	--	--
	11/10/92	13.20		22.63	5,800	130	ND	260	42	--
	12/10/92	12.24		23.59	--	--	--	--	--	--
	01/15/93	9.23		26.60	--	--	--	--	--	--
	02/20/93	8.20		27.63	18,000	76	ND	1,000	630	--
	03/18/93	8.77		27.06	--	--	--	--	--	--
	04/20/93	8.86		26.97	--	--	--	--	--	--
	05/21/93	9.40		26.43	7,100	64	ND	340	120	--
	06/22/93	9.87		25.96	--	--	--	--	--	--
	07/23/93	10.29		25.54	--	--	--	--	--	--
	08/23/93	10.73		25.10	5,400	68	ND	230	43	--
35.50	09/24/93	10.83		24.67	--	--	--	--	--	--
	11/23/93	11.28		24.22	3,400	105	ND	120	43	--
	02/24/94	9.20		26.30	4,600	170	ND	140	36	--
	05/25/94	9.94		25.56	1,400	49	ND	26	ND	--
	08/23/94	11.39		24.11	7,300	250	13	150	42	--
	11/23/94	10.67		24.83	5,800	250	10	120	22	--
	02/03/95	8.02		27.48	4,400	110	ND	150	37	--
	05/10/95	8.36		27.14	4,200	120	ND	170	38	--
	08/02/95	9.31		26.19	4,200	110	ND	110	22	--
	11/02/95	10.85		24.65	6,100	150	ND	78	6.8	6,200
	02/08/96	7.76		27.74	--	--	--	--	--	--
	02/14/96 <sup>6</sup>	8.18		27.32	3,100	60	ND	98	ND	4,000
	05/08/96	8.50		27.00	3,500	120	ND	160	ND	6,400
	08/09/96	9.46		26.04	1,100	42	ND	15	ND	4,300
	11/07/96	10.58		24.92	2,900	57	ND	13	ND	3,400
	02/10-11/97	7.88		27.62	600	9.5	ND	ND	ND	3,100
	05/07/97	9.07		26.43	1,900	45	ND	31	ND	2,400
	08/05/97	10.23		25.27	2,100	35	ND	24	ND	1,800

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WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	11/04/97	10.51	7.0-19.0	24.99	98	1.6	ND	ND	ND	ND
(cont)	02/12/98	6.59		28.91	670	12	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	1,400
35.50	05/15/98	7.73		27.77	1,200 <sup>9</sup>	7.9	ND <sup>7</sup>	30	ND <sup>7</sup>	1,600
	08/12/98	8.85		26.65	1,600 <sup>11</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	2,000
	11/12/98	9.52		25.98	1,700 <sup>13</sup>	9.3	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	1,700
	03/01/99	8.00		27.50	530	4.9	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	870
	05/12/99	8.64		26.86	900	6.6	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	840
	08/11/99	9.92		25.58	1,660	5.52	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	764
	11/04/99	10.88		24.62	2,600 <sup>11</sup>	8.71	ND <sup>7</sup>	2.76	ND <sup>7</sup>	1,490
	02/29/00	7.56		27.94	420 <sup>19</sup>	ND	ND	ND	ND	1,010
	05/08/00	8.50		27.00	513 <sup>11</sup>	3.56	ND <sup>7</sup>	1.11	ND <sup>7</sup>	1,320
	08/08/00	9.39		26.11	960 <sup>11</sup>	10.0	1.28	ND <sup>7</sup>	ND <sup>7</sup>	1,600
	11/06/00	9.81		25.69	3,000 <sup>11</sup>	17.7	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	1,280/1,360 <sup>12</sup>
	02/07/01	9.16		26.34	1,600 <sup>17</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	590
	05/09/01	9.51		25.99	1,010 <sup>11</sup>	11.4	ND <sup>7</sup>	1.24	ND <sup>7</sup>	586
	08/29/01	10.78		24.72	3,100 <sup>11</sup>	23	<5.0	<5.0	<5.0	840/870 <sup>12</sup>
<b>MW-2 (SP)</b>										
35.44	05/08/96	9.12	11.0-21.0	26.32	540	0.68	21	1.0	1.7	ND
	08/09/96	9.98		25.46	170	ND	7.8	ND	ND	ND
	11/07/96	10.98		24.46	430	8.9	1.5	ND	ND	10
	02/10-11/97	8.63		26.81	230 <sup>2</sup>	4.6	1.0	ND	ND	10
	05/07/97	9.58		25.86	ND	ND	ND	ND	ND	14
	08/05/97	10.62		24.82	360	5.5	50	ND	ND	ND
	11/04/97	11.06		24.38	280	2.9	13	ND	0.54	ND
	02/12/98	7.71		27.73	440 <sup>8</sup>	10	1.6	ND	0.69	13
	05/15/98	8.50		26.94	540 <sup>8</sup>	10	1.1	ND	1.1	15
	08/12/98	9.43		26.01	ND	ND	ND	ND	ND	ND
	11/12/98	9.98		25.46	300 <sup>14</sup>	6.1	ND <sup>7</sup>	ND <sup>7</sup>	4.0	ND <sup>7</sup>
	03/01/99	8.70		26.74	57	ND	ND	ND	ND	4.5
	05/12/99	9.45		25.99	ND	ND	ND	ND	ND	5.0

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MW-2 (SP)	08/11/99	10.08	11.0-21.0	25.36	337	ND	ND	ND	ND	12.4
(cont)	11/04/99	10.91		24.53	317 <sup>11</sup>	8.31	ND	ND	ND	7.81
	02/29/00	8.04		27.40	SAMPLED SEMI-ANNUALLY		--	--	--	--
	05/08/00	9.10		26.34	131 <sup>19</sup>	ND	ND	ND	ND	ND/4.83 <sup>12</sup>
	08/08/00	9.91		25.53	--	--	--	--	--	--
	11/06/00	10.20		25.24	183 <sup>19</sup>	ND	ND	ND	ND	ND
	02/07/01	9.70		25.74	--	--	--	--	--	--
	05/09/01	9.98		25.46	ND	ND	ND	ND	ND	ND
	08/24/01	11.15		24.29	SAMPLED SEMI-ANNUALLY		--	--	--	--
<b>MW-3 (SP)</b>										
35.81	05/08/96	8.73	11.0-21.0	27.08	4,700	7.9	36	13	4.0	42
	08/09/96	9.73		26.08	2,000	ND	14	7.6	ND	ND
	11/07/96	10.88		24.93	1,800	29	ND	ND	ND	40
	02/10-11/97	8.16		27.65	3,500	70	14	ND	ND	150
	05/07/97	9.35		26.46	3,100	48	ND	ND	ND	110
	08/05/97	10.44		25.37	3,200	43	5.7	ND	ND	61
	11/04/97	10.90		24.91	2,600	34	ND	ND	ND	53
	02/12/98	6.77		29.04	3,200	62	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	100
35.82	05/15/98	8.02		27.80	ND	ND	ND	ND	ND	2.5
	08/12/98	9.11		26.71	110	ND	4.1	ND	ND <sup>7</sup>	ND
	11/12/98	9.81		26.01	1,800 <sup>15</sup>	37	2.8	ND <sup>7</sup>	ND <sup>7</sup>	55
	03/01/99	8.27		27.55	2,900 <sup>8</sup>	12	3.6	ND <sup>7</sup>	ND <sup>7</sup>	110
	05/12/99	8.92		26.90	4,100 <sup>16</sup>	34	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	45
	08/11/99	9.59		26.23	3,220	22.8	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	50.8
	11/04/99	10.86		24.96	2,460 <sup>11</sup>	26.6	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	52.1
	02/29/00	7.92		27.90	SAMPLED SEMI-ANNUALLY		--	--	--	--
	05/08/00	9.07		26.75	1,080 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	<sup>7</sup> ND/ND <sup>12</sup>
	08/08/00	9.86		25.96	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (SP)	11/06/00	10.12	11.0-21.0	25.70	3,100 <sup>11</sup>	35.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	95.7
(cont)	02/07/01	9.65		26.17	--	--	--	--	--	--
	05/09/01	9.79		26.03	3,350 <sup>11</sup>	34.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	08/24/01	11.09		24.73	SAMPLED SEMI-ANNUALLY			--	--	--
<b>Trip Blank</b>										
TB-LB	02/12/98	--	--	--	ND	ND	ND	ND	ND	ND
	05/15/98	--	--	--	ND	ND	ND	ND	ND	ND
	08/12/98	--	--	--	ND	ND	ND	ND	ND	ND
	11/12/98	--	--	--	ND	ND	0.68	ND	0.51	ND
	03/01/99	--	--	--	ND	ND	ND	ND	ND	ND
	05/12/99	--	--	--	ND	ND	ND	ND	ND	ND
	08/11/99	--	--	--	ND	ND	ND	ND	ND	ND
	11/04/99	--	--	--	ND	ND	ND	ND	ND	ND
	02/29/00	--	--	--	ND	ND	ND	ND	ND	ND
	05/08/00	--	--	--	ND	ND	ND	ND	ND	ND
	08/08/00	--	--	--	ND	ND	ND	ND	ND	ND
	11/06/00	--	--	--	ND	ND	ND	ND	ND	ND
	02/07/01	--	--	--	ND	ND	ND	ND	ND	ND
	05/09/01	--	--	--	ND	ND	ND	ND	ND	ND
	08/24/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to February 12, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	TPH-G = Total Petroleum Hydrocarbons as Gasoline	ND = Not Detected
DTW = Depth to Water	B = Benzene	-- = Not Measured/Not Analyzed
(ft.) = Feet	T = Toluene	(SP) = Shadrill Property wells
S.I. = Screen Interval	E = Ethylbenzene	
(ft.bgs) = Feet Below Ground Surface	X = Xylenes	
GWE = Groundwater Elevation	MTBE = Methyl tertiary butyl ether	
(msl) = Mean sea level	(ppb) = Parts per billion	

- \* TOC elevations are relative to msl, per a Benchmark located at the northwest corner of East 14th Street and 150th Avenue, (Elevation = 36.88 feet, msl). TOC elevations for MW-2 (SP) and MW-3 (SP) are relative to msl, per Chevron monitoring well MW-6 used as a benchmark, (Elevation = 36.92 feet, msl). East 14th Street and 150th Avenue. (Benchmark Elevation = 36.883 feet, msl). Prior to September 24, 1993, DTW measurements were taken from the top of the well covers.
- <sup>1</sup> Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- <sup>2</sup> Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- <sup>3</sup> The analytical results of the groundwater were inconsistent with the previous analytical results for this well. The laboratory re-analyzed the sample past hold time; therefore the results may be biased low.
- <sup>4</sup> The monitoring well was re-sampled on November 20, 1995. The vial containing the water sample collected from this well on November 2, 1995, was inadvertently broken by the laboratory.
- <sup>5</sup> All EPA Method 8010 constituents were ND.
- <sup>6</sup> The monitoring wells MW-8 and MW-11 were re-sampled on February 14, 1996. The vials containing the water samples collected from the wells on February 8, 1996, were inadvertently broken by the laboratory.
- <sup>7</sup> Detection limit raised. Refer to analytical reports.
- <sup>8</sup> Laboratory report indicates gasoline and unidentified hydrocarbons <C7.
- <sup>9</sup> Laboratory report indicates gasoline and discrete peaks C6-C12.
- <sup>10</sup> Laboratory report indicates gasoline and unidentified hydrocarbons C6-C8.
- <sup>11</sup> Laboratory report indicates weathered gasoline C6-C12.
- <sup>12</sup> MTBE by EPA Method 8260.
- <sup>13</sup> Laboratory report indicates unidentified hydrocarbons >C8.
- <sup>14</sup> Laboratory report indicates unidentified hydrocarbons >C6.
- <sup>15</sup> Laboratory report indicates weathered gas and unidentified hydrocarbons >C6.
- <sup>16</sup> Laboratory report indicates gasoline and unidentified hydrocarbons <C6.
- <sup>17</sup> Laboratory report indicates gasoline C6-C12.

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #3292  
15008 East 14th Street  
San Leandro, California

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**EXPLANATIONS:** (cont)

- <sup>18</sup> MTBE by EPA Method 8260 analyzed past EPA recommended holding time.
- <sup>19</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.
- <sup>20</sup> MTBE by EPA Method 8260 analyzed one day past the EPA recommended holding time; sample was inadvertently chosen for MTBE confirmation instead of MW-11.

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-1	11/02/95	1.80	2.83	--
	02/08/96	--	2.58	--
	05/08/96	--	--	1.92
	08/09/96	--	2.14	--
	11/07/96	--	2.11	2.18
	02/11/97	--	--	2.05
	08/05/97	--	--	1.88
	11/04/97	--	--	2.67
	02/12/98	--	2.38	--
	05/15/98	--	2.12	--
	08/12/98	--	1.77	--
	11/12/98	--	1.55	--
	03/01/99	--	1.77	--
	05/12/99	--	1.86	--
	08/11/99	--	1.93	--
	11/04/99	--	2.10	--
	02/29/00	--	2.88	--
	05/08/00	--	3.11	--
	08/08/00	--	3.27	--
	11/06/00	--	3.67	--
	02/07/01	--	3.62	--
05/09/01	--	3.29	--	
08/24/01	--	1.97	--	
MW-2	11/02/95	2.30	2.80	--
	02/08/96	--	2.21	--
	05/08/96	--	--	3.89
	08/09/96	--	3.36	--
	11/07/96	--	1.96	1.98
	02/11/97	--	--	2.12
	08/05/97	--	--	2.38
	11/04/97	--	--	2.18
	02/12/98	--	2.04	--
	05/15/98	--	2.33	--
	08/12/98	--	2.50	--
	11/12/98	--	1.90	--
	03/01/99	--	1.82	--
	05/12/99	--	2.32	--
	08/11/99	--	1.98	--
	11/04/99	--	1.90	--
	02/29/00	--	2.41	--
05/08/00	--	2.14	--	

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-2 (cont)	08/08/00	--	2.57	--
	11/06/00	--	1.94	--
	02/07/01	--	2.49	--
	05/09/01	--	2.66	--
	08/24/01	--	2.11	--
MW-3	11/02/95	2.20	4.98	--
	02/08/96	--	2.78	--
	05/08/96	--	--	3.73
	08/09/96	--	3.29	--
	11/07/96	--	3.15	3.98
	02/10/97	--	--	3.59
	08/05/97	--	--	2.86
	11/04/97	--	--	2.95
	02/12/98	--	3.12	--
	05/15/98	--	3.97	--
	08/12/98	--	4.21	--
	03/01/99	--	4.56	--
	03/01/99	--	5.19	--
	05/12/99	--	3.87	--
	08/11/99	--	4.10	--
11/04/99	--	4.41	--	
MW-4	11/02/95	3.00	7.91	--
	02/08/96	--	2.66	--
	05/08/96	--	--	--
	08/09/96	--	2.92	--
	11/07/96	--	4.32	4.38
	02/10/97	--	--	3.87
	08/05/97	--	--	5.12
	11/04/97	--	--	3.98
	02/12/98	--	4.88	--
	05/15/98	--	5.13	--
	08/12/98	--	5.62	--
	11/12/98	--	5.76	--
	03/01/99	--	5.55	--
	05/12/99	--	5.64	--
	08/11/99	--	5.36	--
11/04/99	--	4.95	--	

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-5	11/02/95	3.00	2.30	--
	02/08/96	--	2.35	--
	05/08/96	--	--	1.29
	08/09/96	--	2.19	--
	11/07/96	--	1.84	1.82
	02/10/97	--	--	2.07
	08/05/97	--	--	2.36
	11/04/97	--	--	1.99
	02/12/98	--	1.79	--
	05/15/98	--	1.66	--
	08/12/98	--	1.71	--
	11/12/98	--	1.81	--
	03/01/99	--	1.67	--
	05/12/99	--	1.73	--
	08/11/99	--	1.83	--
	11/04/99	--	1.77	--
	02/29/00	--	2.23	--
	05/08/00	--	2.58	--
	08/08/00	--	2.19	--
	11/06/00	--	1.85	--
02/07/01	--	2.36	--	
05/09/01	--	2.18	--	
08/24/01	--	1.28	--	
MW-6	11/02/95	3.80	4.55	--
	02/08/96	--	3.77	--
	05/08/96	--	--	3.40
	08/09/96	--	3.53	--
	11/07/96	--	3.99	4.06
	02/10/97	--	--	3.85
	08/05/97	--	--	5.37
	11/04/97	--	--	3.67
	02/12/98	--	4.05	--
	05/15/98	--	5.28	--
	08/12/98	--	4.96	--
	11/12/98	--	5.36	--
	03/01/99	--	4.97	--
	05/12/99	--	5.47	--
	08/11/99	--	5.19	--
	11/04/99	--	5.38	--

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-7	11/02/95	--	--	--
	02/08/96	--	2.67	--
	05/08/96	--	--	2.20
	08/09/96	--	2.37	--
	11/07/96	--	2.22	2.28
	02/11/97	--	--	2.33
	08/05/97	--	--	2.69
	11/04/97	--	--	2.82
	02/12/98	--	3.24	--
	05/15/98	--	2.95	--
	08/12/98	--	3.19	--
	11/12/98	--	2.04	--
	03/01/99	--	2.64	--
	05/12/99	--	3.05	--
	08/11/99	--	2.69	--
	11/04/99	--	2.47	--
	02/29/00	--	2.31	--
	05/08/00	--	2.16	--
	08/08/00	--	1.88	--
	11/06/00	--	1.96	--
02/07/01	--	2.08	--	
05/09/01	--	1.81	--	
08/24/01	--	1.53	--	
MW-8	11/02/95	--	--	--
	02/08/96	--	3.85	--
	05/08/96	--	--	2.09
	08/09/96	--	2.56	--
	11/07/96	--	1.67	1.84
	02/10/97	--	--	2.10
	08/05/97	--	--	3.04
	11/04/97	--	--	2.11
	02/12/98	--	1.98	--
	05/15/98	--	2.44	--
	08/12/98	--	2.83	--
	11/12/98	--	3.16	--
	03/01/99	--	2.81	--
	05/12/99	--	2.74	--
	08/11/99	--	3.04	--
	11/04/99	--	3.41	--
	02/29/00	--	3.77	--
05/08/00	--	3.97	--	
08/08/00	--	3.59	--	

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-8 (cont)	11/06/00	--	3.71	--
	02/07/01	--	3.19	--
	05/09/01	--	3.59	--
	08/24/01	--	2.67	--
MW-9	11/02/95	--	--	--
	02/08/96	--	3.62	--
	05/08/96	--	--	2.20
	08/09/96	--	2.51	--
	11/07/96	--	2.06	2.02
	02/10/97	--	--	1.96
	08/05/97	--	--	2.57
	11/04/97	--	--	2.60
	02/12/98	--	2.27	--
	05/15/98	--	2.62	--
	08/12/98	--	1.90	--
	11/12/98	--	1.38	--
	03/01/99	--	1.78	--
	05/12/99	--	2.26	--
	08/11/99	--	2.42	--
	11/04/99	--	2.71	--
	02/29/00	--	3.05	--
	05/08/00	--	3.77	--
	08/08/00	--	3.39	--
	11/06/00	--	4.06	--
02/07/01	--	3.46	--	
05/09/01	--	4.33	--	
08/24/01	--	2.36	--	
MW-10	11/02/95	3.10	3.96	--
	02/08/96	--	2.88	--
	05/08/96	--	--	2.71
	08/09/96	--	2.63	--
	11/07/96	--	1.81	1.84
	02/10/97	--	--	2.03
	08/05/97	--	--	2.78
	11/04/97	--	--	2.11
	02/12/98	--	2.63	--
	05/15/98	--	2.24	--
	08/12/98	--	2.43	--
	11/12/98	--	2.66	--
	03/01/99	--	3.11	--
	05/12/99	--	2.77	--

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-10	08/11/99	--	3.21	--
(cont)	11/04/99	--	3.12	--
	02/29/00	--	2.97	--
	05/08/00	--	2.63	--
	08/08/00	--	2.73	--
	11/06/00	--	3.10	--
	02/07/01	--	3.05	--
	05/09/01	--	3.38	--
	08/24/01	--	1.74	--
MW-11	11/02/95	2.60	3.55	--
	02/08/96	--	2.19	--
	05/08/96	--	--	2.06
	08/09/96	--	2.11	--
	11/07/96	--	2.35	2.36
	02/10/97	--	--	2.18
	08/05/97	--	--	3.19
	11/04/97	--	--	2.01
	02/12/98	--	2.44	--
	05/15/98	--	1.80	--
	08/12/98	--	2.05	--
	11/12/98	--	1.67	--
	03/01/99	--	2.03	--
	05/12/99	--	2.14	--
	08/11/99	--	2.66	--
	11/04/99	--	2.60	--
	02/29/00	--	2.47	--
	05/08/00	--	2.70	--
	08/08/00	--	2.22	--
	11/06/00	--	3.16	--
	02/07/01	--	2.56	--
	05/09/01	--	2.82	--
	08/24/01	--	2.40	--
MW-2 (SP) <sup>1</sup>	11/07/96	--	2.85	2.80
	02/11/97	--	--	2.73
	08/05/97	--	--	3.99
	11/04/97	--	--	3.06
	02/12/98	--	3.11	--
	05/15/98	--	3.97	--
	08/12/98	--	3.62	--
	11/12/98	--	4.19	--
	03/01/99	--	4.56	--



**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-2 (SP) <sup>1</sup>	05/12/99	--	3.92	--
(cont)	08/11/99	--	4.19	--
	11/04/99	--	3.85	--
	02/29/00	--	3.21	--
	05/08/00	--	3.96	--
	08/08/00	--	3.55	--
	11/06/00	--	4.11	--
	02/07/01	--	3.80	--
	05/09/01	--	3.95	--
	08/24/01	--	3.81	--
MW-3 (SP) <sup>1</sup>	11/07/96	--	2.41	2.40
	02/11/97	--	--	2.55
	08/05/97	--	--	3.74
	11/04/97	--	--	2.95
	02/12/98	--	3.17	--
	05/15/98	--	4.06	--
	08/12/98	--	3.98	--
	11/12/98	--	3.39	--
	03/01/99	--	3.08	--
	05/12/99	--	2.77	--
	08/11/99	--	2.84	--
	11/04/99	--	2.43	--
	02/29/00	--	2.72	--
	05/08/00	--	2.22	--
	08/08/00	--	2.76	--
	11/06/00	--	2.59	--
	02/07/01	--	2.61	--
	05/09/01	--	2.36	--
	08/24/01	--	1.98	--

**Table 2**  
**Dissolved Oxygen Concentrations**  
Tosco (Unocal) Service Station #3292  
15008 East 14th Street  
San Leandro, California

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**EXPLANATIONS:**

Dissolved oxygen concentrations prior to February 12, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter

-- = Not Measured/Not Analyzed

(SP) = Shadrall Property wells

◆ Measurements taken in field.

<sup>1</sup> Wells located on Shadrall Property.

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	05/08/00	ND <sup>1</sup>	ND <sup>1</sup>	1,780	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
	08/08/00	--	--	1,990 <sup>2</sup>	--	--	--	--	--
	02/07/01	--	--	840	--	--	--	--	--
	05/09/01 <sup>2</sup>	ND <sup>1</sup>	ND <sup>1</sup>	431	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
MW-11	08/24/01	<5,000	<500	870	<10	<10	<10	<10	<10
MW-2 (SP)	05/08/00	ND	ND	4.83	ND	ND	ND	ND	ND
MW-3 (SP)	05/08/00	ND	ND	ND	ND	ND	ND	ND	ND

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

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

<sup>1</sup> Raised detection limit. Refer to analytical reports.

<sup>2</sup> Sample was analyzed outside of the EPA recommended holding time.

**Table 4**  
**Joint Groundwater Monitoring Data**  
Former Mobil Facility #04-FGN  
14994 East 14th Street  
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)
MW-1A 36.63	02/12/98	5.52	31.11
	08/12/98	8.80	27.83
MW-2A 36.62	02/12/98	5.59	31.03
	08/12/98	8.85	27.77
MW-3A 36.93	02/12/98	5.72	31.21
	08/12/98	9.05	27.88
MW-4A 37.18	02/12/98	5.90	31.28
	08/12/98	9.21	27.97
MW-5A 35.91	02/12/98	5.32	30.59
	08/12/98	8.19	27.72
MW-6A 37.10	02/12/98	5.52	31.58
	08/12/98	8.91	28.19
MW-7A 37.39	02/12/98	6.55	30.84
	08/12/98	9.65	27.74

**EXPLANATIONS:**

Groundwater monitoring data provided by Alton Geoscience. Site monitored on a semi-annual basis.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

\* TOC elevations have been surveyed relative to msl.

**Table 5**  
**Joint Groundwater Monitoring Data**  
Chevron Service Station #9-2013  
15002 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)
MW-1 35.77	11/04/97	11.35	24.42
	05/15/98	8.11	27.66
	08/12/98	9.35	26.42
MW-2 35.00	11/04/97	10.70	24.30
	05/15/98	7.63	27.37
	08/12/98	8.75	26.25
MW-3 36.17	11/04/97	11.75	24.42
	05/15/98	8.75	27.42
	08/12/98	9.85	26.32
MW-4 36.05	11/04/97	11.47	24.58
	05/15/98	8.27	27.78
	08/12/98	9.40	26.65
MW-5 35.65	11/04/97	11.17	24.48
	05/15/98	7.92	27.73
	08/12/98	9.05	26.60
MW-6 36.92	11/04/97	12.42	24.50
	05/15/98	9.45	27.47
	08/12/98	10.60	26.32
MW-7 35.71	11/04/97	11.01	24.70
	05/15/98	8.11	27.60
	08/12/98	9.25	26.46
MW-8 35.28	11/04/97	10.63	24.65
	05/15/98	7.98	27.30
	08/12/98	9.00	26.28
MW-A	11/04/97	11.45	--
	05/15/98	8.51	--
	08/12/98	9.60	--

**Table 5**  
**Joint Groundwater Monitoring Data**  
Chevron Facility #9-2013  
15002 Hesperian Boulevard  
San Leandro, California

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**EXPLANATIONS:**

Groundwater monitoring data provided by Blaine Tech Services, Inc. Site monitored on a semi-annual basis.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

-- = Not Available

## 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 # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Vartkes

Well ID: MW-1  
Well Diameter: 2 in.  
Total Depth: 18.92 ft.  
Depth to Water: 11.21 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

7.71 x VF 0.17 = 1.31 X 3 (case volume) = Estimated Purge Volume: 4.0 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1320  
Sampling Time: 1340  
Purging Flow Rate: \_\_\_\_\_ gpm  
Did well de-water? no

Weather Conditions: clear  
Water Color: clear      Odor: Y  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1324</u>	<u>1</u>	<u>7.41</u>	<u>613</u>	<u>72.8</u>	<u>1.97</u>		
<u>1327</u>	<u>2.5</u>	<u>7.26</u>	<u>628</u>	<u>72.1</u>			
<u>1332</u>	<u>4</u>	<u>7.22</u>	<u>634</u>	<u>71.7</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>Hel</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>

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



## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Vertres

Well ID MW-2  
Well Diameter 2 in.  
Total Depth 19.05 ft.  
Depth to Water 11.06 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

7.99 x VF 0.17 = 1.35 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1245  
Sampling Time: 1305  
Purging Flow Rate: \_\_\_\_\_ gpm  
Did well de-water? no

Weather Conditions: clear  
Water Color: clear Otor: 4  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1249</u>	<u>1.5</u>	<u>7.43</u>	<u>528</u>	<u>72.7</u>	<u>2.11</u>		
<u>1253</u>	<u>3</u>	<u>7.30</u>	<u>551</u>	<u>71.6</u>			
<u>1258</u>	<u>4.5</u>	<u>7.28</u>	<u>562</u>	<u>71.2</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
					TPHG/BTEX/MTOE
<u>MW-2</u>	<u>5 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Vartkes

Well ID: MW-3  
Well Diameter: 2 in.  
Total Depth: 22.10 ft.  
Depth to Water: 11.12 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

     X VF      =      X 3 (case volume) = Estimated Purge Volume:      (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other:     

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

Starting Time:       
Sampling Time:       
Purging Flow Rate:      gpm  
Did well de-water?     

Weather Conditions:       
Water Color:      Odor:       
Sediment Description:       
If yes; Time:      Volume:      (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH, BTEX / MTOE</u>

COMMENTS: Monitor only

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Varthes

Well ID MW-4

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19.60 ft.

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

Depth to Water 11.80 ft.

     X VF      =      X 3 (case volume) = Estimated Purge Volume:      (gal.)

Purge Equipment:  Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other:     

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

Starting Time:       
Sampling Time:       
Purging Flow Rate:      gpm.  
Did well de-water?     

Weather Conditions:       
Water Color:      Odor:       
Sediment Description:       
If yes; Time:      Volume:      (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>X-VDA VIAL</u>	<u>Y</u>	<u>HCC</u>	<u>SEQUOTA</u>	<u>TPH/G/BTEX/MTOE</u>

COMMENTS: Monitor only.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Varthes

Well ID MW-5  
Well Diameter 2 in.  
Total Depth 22.04 ft.  
Depth to Water 10.75 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

   X VF    =    X 3 (case volume) = Estimated Purge Volume:    (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other:   

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

Starting Time:     
Sampling Time:     
Purging Flow Rate:    gpm.  
Did well de-water?   

Weather Conditions:     
Water Color:    Odor:     
Sediment Description:     
If yes; Time:    Volume:    (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
					1.28		

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	X-VOA VIAL	Y	HCL	SEQUOIA	TPH, BTEX, MTOE

COMMENTS: Monitor + DO

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Tosco # 3292 Job#: 180105  
 Address: 15008 East 14<sup>th</sup> St. Date: 8/24/01  
 City: San Leandro, Ca. Sampler: Vartkes

Well ID: MW-6 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 22.10 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water: 10.33 ft. 6" = 1.50 12" = 5.80

     X VF      =      X 3 (case volume) = Estimated Purge Volume:      (gal.)

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

Starting Time:      Weather Conditions:       
 Sampling Time:      Water Color:      Odor:       
 Purging Flow Rate:      gpm. Sediment Description:       
 Did well de-water?      If yes: Time:      Volume:      (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>X VDA VIAL</u>	<u>Y</u>	<u>HEC</u>	<u>SEQUOIA</u>	<u>TPH/BTEX/MTOE</u>

COMMENTS: Monitor only

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Vartres

Well ID MW-7  
Well Diameter 2 in.  
Total Depth 21.05 ft.  
Depth to Water 10.73 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

   X VF    =    X 3 (case volume) = Estimated Purge Volume:    (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other:   

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

Starting Time:     
Sampling Time:     
Purging Flow Rate:    gpm.  
Did well de-water?   

Weather Conditions:     
Water Color:       Odor:     
Sediment Description:     
If yes; Time:       Volume:    (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
					1.53		

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<del>X VOA VIAL</del>	<del>Y</del>	<del>HEC</del>	<del>SEQUOIA</del>	<del>TPHG/BTEX/MTOE</del>

COMMENTS: Monitor + DO

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Varthes

Well ID MW-8  
Well Diameter 2 in.  
Total Depth 19.03 ft.  
Depth to Water 11.97 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

   X VF    =    X 3 (case volume) = Estimated Purge Volume:    (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other:   

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

Starting Time:     
Sampling Time:     
Purging Flow Rate:    gpm.  
Did well de-water?   

Weather Conditions:     
Water Color:    Odor:     
Sediment Description:     
If yes; Time:    Volume:    (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
					2.67		

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	X VBA VIAL	Y	HCL	SEQUOIA	TPHG/BTEX/MTOE

COMMENTS: Monitor + DO

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Vartkes

Well ID: MW-9  
Well Diameter: 2 in.  
Total Depth: 19.05 ft.  
Depth to Water: 11.34 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

7.71 x VF 0.17 = 1.31 x 3 (case volume) = Estimated Purge Volume: 4.0 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1040  
Sampling Time: 1100  
Purging Flow Rate: \_\_\_\_\_ gpm.  
Did well de-water? no

Weather Conditions: clear  
Water Color: clear Odor: 4  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1043</u>	<u>1</u>	<u>7.52</u>	<u>602</u>	<u>71.9</u>	<u>2.36</u>		
<u>1047</u>	<u>2.5</u>	<u>7.37</u>	<u>627</u>	<u>71.3</u>			
<u>1052</u>	<u>4</u>	<u>7.33</u>	<u>640</u>	<u>70.9</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>

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



## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> St.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Varthes

Well ID: MW-10  
Well Diameter: 2 in.  
Total Depth: 19.78 ft.  
Depth to Water: 11.16 ft.

Well Condition: OK  
Hydrocarbon Thickness: 0.00 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

8.62 x VF 0.17 = 1.46 x 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1155  
Sampling Time: 1225  
Purging Flow Rate: \_\_\_\_\_ gpm.  
Did well de-water? no

Weather Conditions: clear  
Water Color: clear      Odor: 4  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1159</u>	<u>1.5</u>	<u>7.40</u>	<u>579</u>	<u>71.1</u>	<u>1.74</u>		
<u>1203</u>	<u>3</u>	<u>7.23</u>	<u>590</u>	<u>70.4</u>			
<u>1208</u>	<u>4.5</u>	<u>7.17</u>	<u>594</u>	<u>70.2</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>5 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Tosco # 3292  
 Address: 15008 East 14<sup>th</sup> St.  
 City: San Leandro, Ca.

Job#: 180105  
 Date: 8/24/01  
 Sampler: Varthes

Well ID: MW-11  
 Well Diameter: 2 in.  
 Total Depth: 18.90 ft.  
 Depth to Water: 10.78 ft.

Well Condition: OK  
 Hydrocarbon Thickness: 0.00 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

8.12 x VF 0.17 = 1.38 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1115  
 Sampling Time: 1135  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no

Weather Conditions: clear  
 Water Color: clear Odor: Y  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1119</u>	<u>1.5</u>	<u>7.48</u>	<u>721</u>	<u>71.8</u>	<u>2.40</u>		
<u>1122</u>	<u>3</u>	<u>7.34</u>	<u>737</u>	<u>79.1</u>			
<u>1127</u>	<u>4.5</u>	<u>7.30</u>	<u>740</u>	<u>70.8</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>5 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH/G/BTEX/MTOE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Tosco # 3292  
Address: 15008 East 14<sup>th</sup> st.  
City: San Leandro, Ca.

Job#: 180105  
Date: 8/24/01  
Sampler: Verttes

Well ID: MW-2 (SP) Well Condition: OK  
Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
Total Depth: 20.83 ft. 

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

  
Depth to Water: 11.15 ft.

X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment:  Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment:  Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
					3.81		

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<del>X VOA VIAL</del>	<del>Y</del>	<del>HCL</del>	<del>SEQUOIA</del>	<del>TPHG/BTEX/MTOE</del>

COMMENTS: Monitor + NO

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Tosco # 3292 Job#: 180105  
 Address: 15008 East 14<sup>th</sup> st. Date: 8/24/01  
 City: San Leandro, Ca. Sampler: Varthes

Well ID: MW-3(SP) Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 20.64 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water: 11.09 ft. 6" = 1.50 12" = 5.80  
 X VF = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

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

Starting Time: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	1.98	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
_____	<u>X-VDA VIAL</u>	<u>Y</u>	<u>Hel</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: Monitor + NO



TOSCO

Tosco Marketing Company  
3000 Crow Canyon Pl., Ste. 400  
San Ramon, California 94583

Facility Number Unocal SS#3292  
 Facility Address 15008 East 14th St., San Leandro, CA  
 Consultant Project Number 180105.85  
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)  
 Address 6747 Sierra Court, Suite J, Dublin, CA 94568  
 Project Contact (Name) Deanna L. Harding  
 (Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name) Mr. DAVID DEWITT  
 (Phone) (510) 277-2384  
 Laboratory Name Sequoia Analytical  
 Laboratory Release Number \_\_\_\_\_  
 Samples Collected by (Name) Vahkes Tashjian  
 Collection Date 8/24/01  
 Signature [Signature]

L108150

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analyses To Be Performed										Remarks					
								TPH Gas + BTEX w/MTBE (8016)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8140)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)								
TB-LB	01	1	W	G		HEI	Y	X															Run 8260 - 6 Oxy's +1,2-DCA & EDB on highest 8020 Mtbe hit.
MW-1	02	5	L	L	1340		F	X															
MW-2	03	5	L	L	1305		F	X															
MW-9	04	5	L	L	1100		F	X															
MW-10	05	5	L	L	1225		F	X															
MW-11	06	5	L	L	1135		F	X															

DO NOT BILL TB-LB ANALYSIS

Run 8260 - 6 Oxy's +1,2-DCA & EDB on highest 8020 Mtbe hit.

Relinquished By (Signature) <u>[Signature]</u>	Organization G-R Inc.	Date/Time 8/24/01	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time 8/24/01
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time

Turn Around Time (Circle Choice)

24 Hrs.  
 48 Hrs.  
 5 Days  
 10-Days  
 As Contracted



**Sequoia  
Analytical**

RECEIVED

SEP 10 2001

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

10 September, 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: L108150

Enclosed are the results of analyses for samples received by the laboratory on 08/24/01 15:50. 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

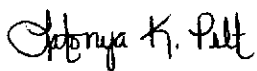
Project: Tosco(1)  
Project Number: Unocal SS #3292, San Leandro, CA  
Project Manager: Deanna Harding

**Reported:**  
09/10/01 11:38

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L108150-01	Water	08/24/01 00:00	08/24/01 15:50
MW-1	L108150-02	Water	08/24/01 13:40	08/24/01 15:50
MW-2	L108150-03	Water	08/24/01 13:05	08/24/01 15:50
MW-9	L108150-04	Water	08/24/01 11:00	08/24/01 15:50
MW-10	L108150-05	Water	08/24/01 12:25	08/24/01 15:50
MW-11	L108150-06	Water	08/24/01 11:35	08/24/01 15:50

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.*

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

 Project: Tosco(1)  
 Project Number: Unocal SS #3292, San Leandro, CA  
 Project Manager: Deanna Harding

 Reported:  
 09/10/01 11:38

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B**  
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TB-LB (L108150-01) Water</b> Sampled: 08/24/01 00:00 Received: 08/24/01 15:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1090002	09/04/01	09/05/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.2 %		70-130	"	"	"	"	
<b>MW-1 (L108150-02) Water</b> Sampled: 08/24/01 13:40 Received: 08/24/01 15:50									
Purgeable Hydrocarbons as Gasoline	15000	2000	ug/l	40	1090011	09/05/01	09/05/01	DHS LUFT	P-02
Benzene	130	20	"	"	"	"	"	"	
Toluene	ND	20	"	"	"	"	"	"	
Ethylbenzene	170	20	"	"	"	"	"	"	
Xylenes (total)	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	820	200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %		70-130	"	"	"	"	
<b>MW-2 (L108150-03) Water</b> Sampled: 08/24/01 13:05 Received: 08/24/01 15:50									
Purgeable Hydrocarbons as Gasoline	3100	500	ug/l	10	1090010	09/05/01	09/05/01	DHS LUFT	P-03
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
<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 #3292, San Leandro, CA  
 Project Manager: Deanna Harding

 Reported:  
 09/10/01 11:38

### Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-9 (L108150-04) Water</b> Sampled: 08/24/01 11:00    Received: 08/24/01 15:50									
Purgeable Hydrocarbons as Gasoline	770	120	ug/l	2.5	1090010	09/05/01	09/05/01	DHS LUFT	P-03
Benzene	ND	1.2	"	"	"	"	"	"	
Toluene	ND	1.2	"	"	"	"	"	"	
Ethylbenzene	ND	1.2	"	"	"	"	"	"	
Xylenes (total)	ND	1.2	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	12	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		216 %	70-130		"	"	"	"	S-04
<b>MW-10 (L108150-05) Water</b> Sampled: 08/24/01 12:25    Received: 08/24/01 15:50									
Purgeable Hydrocarbons as Gasoline	5600	1000	ug/l	20	1090010	09/05/01	09/05/01	DHS LUFT	P-02
Benzene	56	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		118 %	70-130		"	"	"	"	
<b>MW-11 (L108150-06) Water</b> Sampled: 08/24/01 11:35    Received: 08/24/01 15:50									
Purgeable Hydrocarbons as Gasoline	3100	500	ug/l	10	1090010	09/05/01	09/05/01	DHS LUFT	P-02
Benzene	23	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	840	50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.1 %	70-130		"	"	"	"	

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

Project: Tosco(1)  
Project Number: Unocal SS #3292, San Leandro, CA  
Project Manager: Deanna Harding

Reported:  
09/10/01 11:38

**Volatile Organic & Oxygenated Compounds by EPA Method 8260B**  
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-11 (L108150-06) Water</b> <b>Sampled: 08/24/01 11:35</b> <b>Received: 08/24/01 15:50</b>									
Ethanol	ND	5000	ug/l	5	1090013	09/06/01	09/06/01	EPA 8260B	
1,2-Dibromoethane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>870</b>	<b>10</b>	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	10	"	"	"	"	"	"	
Tert-butyl alcohol	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>		<i>76-114</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>99.2 %</i>		<i>88-110</i>	"	"	"	"	

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

 Project: Tosco(1)  
 Project Number: Unocal SS #3292, San Leandro, CA  
 Project Manager: Deanna Harding

 Reported:  
 09/10/01 11:38

## Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control

### Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1090002 - EPA 5030B (P/T)</b>										
Prepared & Analyzed: 09/04/01										
<b>Blank (1090002-BLK1)</b>										
Purgeable Hydrocarbons as Gasoline	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	5.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103	70-130			
Prepared & Analyzed: 09/04/01										
<b>LCS (1090002-BS1)</b>										
Benzene	8.04	0.50	ug/l	10.0		80.4	70-130			
Toluene	8.11	0.50	"	10.0		81.1	70-130			
Ethylbenzene	8.26	0.50	"	10.0		82.6	70-130			
Xylenes (total)	24.5	0.50	"	30.0		81.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	70-130			
Prepared & Analyzed: 09/04/01										
<b>LCS (1090002-BS2)</b>										
Purgeable Hydrocarbons as Gasoline	240	50	ug/l	250		96.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			
Prepared & Analyzed: 09/04/01										
<b>Matrix Spike (1090002-MS1)</b>										
			Source: L108147-11		Prepared & Analyzed: 09/04/01					
Purgeable Hydrocarbons as Gasoline	215	50	ug/l	250	ND	86.0	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.42		"	10.0		94.2	70-130			
Prepared & Analyzed: 09/04/01										
<b>Matrix Spike Dup (1090002-MSD1)</b>										
			Source: L108147-11		Prepared & Analyzed: 09/04/01					
Purgeable Hydrocarbons as Gasoline	211	50	ug/l	250	ND	84.4	60-140	1.88	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.18		"	10.0		91.8	70-130			



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

Project: Tosco(1)  
Project Number: Unocal SS #3292, San Leandro, CA  
Project Manager: Deanna Harding

Reported:  
09/10/01 11:38

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1090010 - EPA 5030B (P/T)**

**Blank (1090010-BLK1)**

Prepared & Analyzed: 09/05/01

Purgeable Hydrocarbons as Gasoline	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	5.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.32		"	10.0		93.2	70-130			

**LCS (1090010-BS1)**

Prepared & Analyzed: 09/05/01

Benzene	7.46	0.50	ug/l	10.0		74.6	70-130			
Toluene	7.41	0.50	"	10.0		74.1	70-130			
Ethylbenzene	7.61	0.50	"	10.0		76.1	70-130			
Xylenes (total)	23.2	0.50	"	30.0		77.3	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.3		"	10.0		113	70-130			

**LCS (1090010-BS2)**

Prepared & Analyzed: 09/05/01

Purgeable Hydrocarbons as Gasoline	233	50	ug/l	250		93.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.6		"	10.0		116	70-130			

**Matrix Spike (1090010-MS1)**

Source: L108151-06

Prepared & Analyzed: 09/05/01

Benzene	8.62	0.50	ug/l	10.0	ND	86.2	60-140			
Toluene	8.58	0.50	"	10.0	ND	85.8	60-140			
Ethylbenzene	8.76	0.50	"	10.0	ND	87.6	60-140			
Xylenes (total)	26.3	0.50	"	30.0	ND	87.7	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.08		"	10.0		90.8	70-130			

**Matrix Spike Dup (1090010-MSD1)**

Source: L108151-06

Prepared & Analyzed: 09/05/01

Benzene	9.63	0.50	ug/l	10.0	ND	96.3	60-140	11.1	25	
Toluene	9.44	0.50	"	10.0	ND	94.4	60-140	9.54	25	
Ethylbenzene	9.67	0.50	"	10.0	ND	96.7	60-140	9.88	25	
Xylenes (total)	29.0	0.50	"	30.0	ND	96.7	60-140	9.76	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.74		"	10.0		97.4	70-130			

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

 Project: Tosco(1)  
 Project Number: Unocal SS #3292, San Leandro, CA  
 Project Manager: Deanna Harding

 Reported:  
 09/10/01 11:38

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1090011 - EPA 5030B (P/T)</b>										
<b>Blank (1090011-BLK1)</b> Prepared & Analyzed: 09/05/01										
Purgeable Hydrocarbons as Gasoline	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	5.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.10		"	10.0		91.0	70-130			
<b>LCS (1090011-BS1)</b> Prepared & Analyzed: 09/05/01										
Benzene	8.38	0.50	ug/l	10.0		83.8	70-130			
Toluene	8.38	0.50	"	10.0		83.8	70-130			
Ethylbenzene	8.45	0.50	"	10.0		84.5	70-130			
Xylenes (total)	25.3	0.50	"	30.0		84.3	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.52		"	10.0		85.2	70-130			
<b>LCS (1090011-BS2)</b> Prepared & Analyzed: 09/05/01										
Purgeable Hydrocarbons as Gasoline	243	50	ug/l	250		97.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.94		"	10.0		89.4	70-130			
<b>Matrix Spike (1090011-MS1)</b> Source: L108152-02 Prepared & Analyzed: 09/05/01										
Benzene	8.75	0.50	ug/l	10.0	ND	87.5	60-140			
Toluene	8.75	0.50	"	10.0	ND	87.5	60-140			
Ethylbenzene	8.86	0.50	"	10.0	ND	88.6	60-140			
Xylenes (total)	26.5	0.50	"	30.0	ND	88.3	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.84		"	10.0		98.4	70-130			
<b>Matrix Spike Dup (1090011-MSD1)</b> Source: L108152-02 Prepared & Analyzed: 09/05/01										
Benzene	8.81	0.50	ug/l	10.0	ND	88.1	60-140	0.683	25	
Toluene	8.86	0.50	"	10.0	ND	88.6	60-140	1.25	25	
Ethylbenzene	8.97	0.50	"	10.0	ND	89.7	60-140	1.23	25	
Xylenes (total)	26.8	0.50	"	30.0	ND	89.3	60-140	1.13	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103	70-130			



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**Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090013 - EPA 5030B [P/T]**

**Blank (1090013-BLK1)**

Prepared & Analyzed: 09/05/01

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	44.9		"	50.0		89.8	76-114			
Surrogate: Toluene-d8	46.1		"	50.0		92.2	88-110			

**LCS (1090013-BS1)**

Prepared & Analyzed: 09/05/01

Methyl tert-butyl ether	44.1	2.0	ug/l	50.0		88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	45.5		"	50.0		91.0	76-114			
Surrogate: Toluene-d8	47.1		"	50.0		94.2	88-110			

**Matrix Spike (1090013-MS1)**

Source: L108152-06

Prepared & Analyzed: 09/06/01

Methyl tert-butyl ether	62.7	2.0	ug/l	50.0	7.7	110	60-140			
Surrogate: 1,2-Dichloroethane-d4	54.4		"	50.0		109	76-114			
Surrogate: Toluene-d8	50.5		"	50.0		101	88-110			

**Matrix Spike Dup (1090013-MSD1)**

Source: L108152-06

Prepared & Analyzed: 09/06/01

Methyl tert-butyl ether	65.0	2.0	ug/l	50.0	7.7	115	60-140	3.60	25	
Surrogate: 1,2-Dichloroethane-d4	54.1		"	50.0		108	76-114			
Surrogate: Toluene-d8	51.5		"	50.0		103	88-110			

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**Reported:**  
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### Notes and Definitions

- P-02 Chromatogram Pattern: Weathered Gasoline C6-C12
- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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