



GETTLER-RYAN INC.

TRANSMITTAL

February 16, 2001

G-R #180075

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

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

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

RE: **Tosco (Unocal) SS #7376**
4191 First Street
Pleasanton, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 15, 2001	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of December 19, 2000

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 **February 28, 2001**, this report will be distributed to the following:

cc: Mr. Scott Seary, Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502

Enclosure

trans/7376.dbd



GETTLER-RYAN INC.

February 15, 2001
G-R Job #180075

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

RE: **Fourth Quarter Event of December 19, 2000**
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, 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 present in one well (MW-5).~~ Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is summarized in Table 2. 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, and a Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

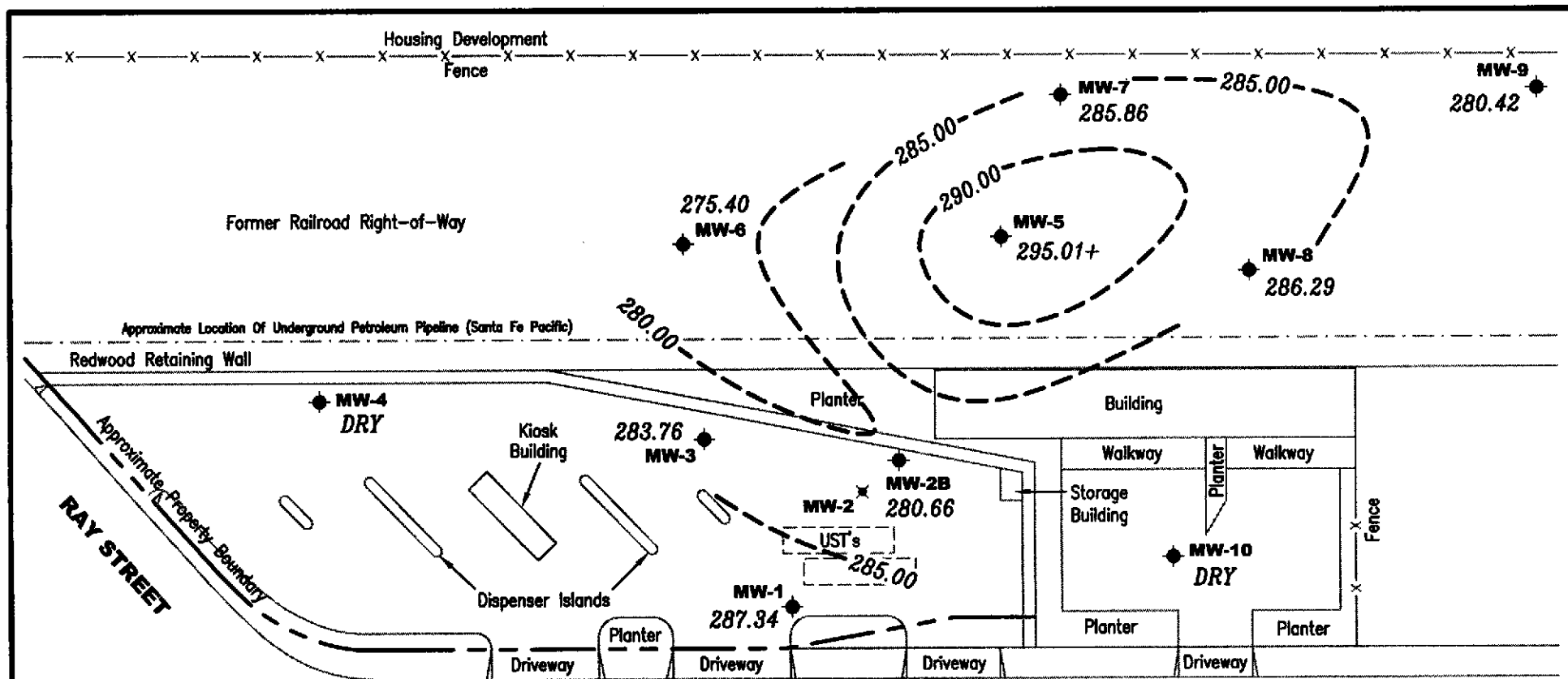
Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734



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

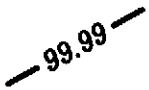
7376.qml



FIRST STREET

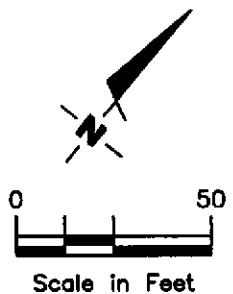
EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Abandoned well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)



- Groundwater elevation contour, dashed where inferred.
- + Groundwater elevation corrected for the presence of free product

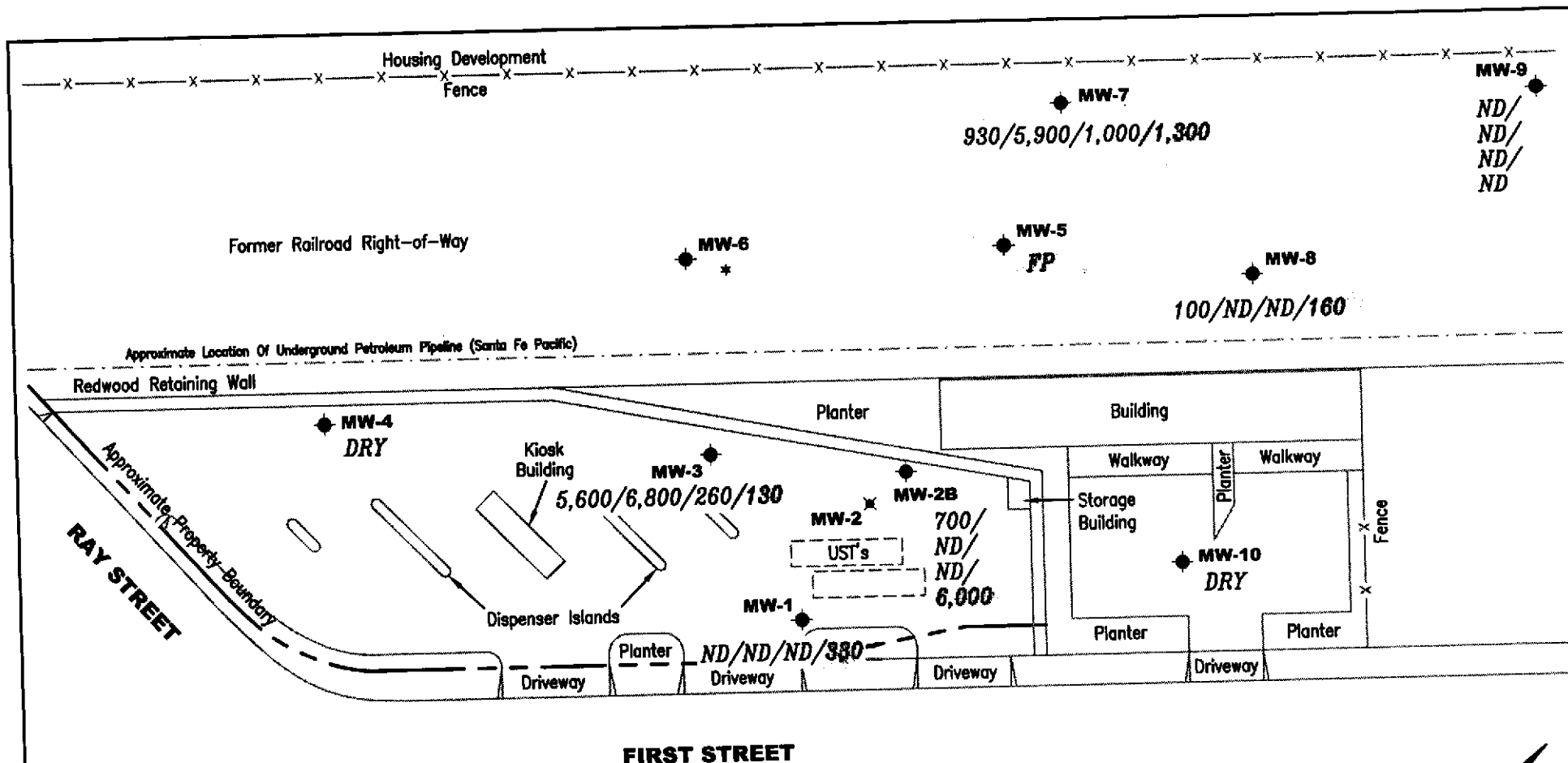
Groundwater flow direction varies at a gradient of 0.08 to 0.3 Ft./Ft.



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POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

FIGURE
1

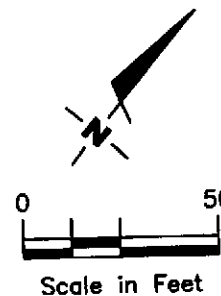


EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Abandoned well
- Insufficient water to sample

A/B/C/D TPH(D) (Total Petroleum Hydrocarbons as Diesel)/TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb

FP Free Product
 ND Not Detected



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CONCENTRATION MAP
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

FIGURE

2

PROJECT NUMBER
 180075

REVIEWED BY

DATE
 December 19, 2000

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	12/08/87	--	--	--	620 ²	1,800 ³	910	800	260	1,200	--
	12/07/94	DAMAGED	--	--	--	--	--	--	--	--	--
	DESTROYED										
MW-2B											
365.05	03/01/95	80.80	284.25	0.00	320	ND	ND	ND	ND	ND	--
	06/01/95	75.69	289.36	0.00	280	350	19	5.8	ND	7.7	--
	09/06/95	77.54	287.51	0.00	ND	ND	90	ND	ND	ND	-- ⁶
	12/12/95	75.96	289.09	0.00	850 ⁴	1,200	630	ND	15	57	-- ⁷
	03/01/96	73.27	291.78	0.00	870 ⁴	1,000	620	ND	ND	5.3	4,300
	06/15/96	73.21	291.84	0.00	420	910	350	ND	ND	ND	3,700
	09/18/96	81.08	283.97	0.00	600	1,200	95	ND	ND	ND	5,200
	12/21/96	77.35	287.70	0.00	470	330 ⁸	57	ND	ND	ND	2,900
	03/07/97	69.67	295.38	0.00	870 ⁴	190	28	0.64	ND	1.5	4,300
	06/27/97	82.40	282.65	0.00	680 ⁴	98	3.4	1.0	0.53	ND	3,100
	09/29/97	82.72	282.33	0.00	430	ND	ND	ND	ND	ND	3,000
	12/15/97	82.57	282.48	0.00	490	54 ⁹	ND	ND	ND	ND	4,100
	03/16/98	69.13	295.92	0.00	4,000 ¹⁰	ND ¹¹	17	ND ¹¹	ND ¹¹	ND ¹¹	4,400
365.05	06/26/98	77.78	287.27	0.00	790 ¹⁴	ND	ND	ND	ND	ND	4,000
	08/18/98	83.99	281.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.89	281.16	0.00	930 ²⁰	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	21	4,600
	12/15/98	82.84	282.21	0.00	600	ND	ND	ND	ND	ND	5,100
	12/23/98	82.55	282.50	0.00	--	--	--	--	--	--	--
	03/15/99	77.31	287.74	0.00	390 ²⁵	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	4,300/4,800 ²⁷
	03/23/99	77.06	287.99	0.00	--	--	--	--	--	--	--
	06/07/99	82.96	282.09	0.00	770 ²⁵	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	5,100
	09/03/99	84.16	280.89	0.00	870 ²⁰	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	6,300/4,400 ²⁷

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2B	12/06/99	84.41	280.64	0.00	850 ³²	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	4,400
(cont)	03/10/00	82.42	282.63	0.00	1,500 ²⁰	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	6,900
	06/08/00	82.73	282.32	0.00	-- ³⁴	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	7,780
	09/25/00	84.24	280.81	0.00	2,900 ²⁰	52.9 ³⁰	8.83	6.58	0.932	5.60	12,200
	12/19/00	84.39	280.66	0.00	700 ¹⁹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	6,000
MW-3											
	12/08/87	--	--	--	2,300 ²	24,000 ³	2,600	1,300	160	660	--
367.01	12/07/94	85.54	281.47	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	83.20	283.81	0.00	140 ⁴	ND	ND	1.1	ND	1.1	--
	06/01/95	77.60	289.41	0.00	140 ⁵	62	7.8	0.90	ND	1.6	--
	09/06/95	79.28	287.73	0.00	880 ⁵	4,100	380	490	130	710	-- ⁶
	12/12/95	77.73	289.28	0.00	3,100 ⁴	19,000	600	380	2,100	5,300	-- ⁷
	03/01/96	75.18	291.83	0.00	1,500 ⁵	3,400	950	3.2	1,900	290	59
	06/15/96	75.13	291.88	0.00	400 ⁴	780	190	8.8	3.8	4.0	630
	09/18/96	82.84	284.17	0.00	170	2,800	340	12	11	110	2,500
	12/21/96	79.29	287.72	0.00	64 ⁴	51	1.3	ND	ND	0.53	20
	03/07/97	71.58	295.43	0.00	570 ⁴	1,400	53	14	29	68	220
	06/27/97	83.27	283.74	0.00	ND	ND	ND	ND	ND	ND	27
	09/29/97	83.33	283.68	0.00	ND	ND	ND	ND	ND	ND	11
	12/15/97	83.35	283.66	0.00	ND	ND	ND	ND	ND	ND	19
	03/16/98	71.07	295.94	0.00	670 ¹⁰	130 ¹²	6.5	1.9	1.5	1.6	210
367.03	06/26/98	79.65	287.38	0.00	63 ¹³	400 ¹⁵	15	ND ¹¹	ND ¹¹	1.9	490
	08/18/98	83.29	283.74	0.00	--	--	--	--	--	--	--
	09/22/98	83.33	283.70	0.00	95 ²⁰	ND	ND	ND	ND	ND	24
	12/15/98	83.29	283.74	0.00	ND	ND	ND	ND	ND	ND	18
	12/23/98	83.28	283.75	0.00	--	--	--	--	--	--	--
	03/15/99	79.19	287.84	0.00	3,500 ²⁶	26,000	3,100	270	2,200	3,100	1,300
	03/23/99	78.92	288.11	0.00	--	--	--	--	--	--	--
	06/07/99	83.22	283.81	0.00	ND	ND	ND	ND	0.63	ND	29

Table 1
Groundwater Monitoring Data and Analytical Results
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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	09/03/99	83.31	283.72	0.00	2,900 ²⁰	23,000 ³⁰	770	ND ¹¹	980	6,400	280/82.4 ²⁷
(cont)	12/06/99	83.41	283.62	0.00	4,200 ²⁰	41,000 ³⁰	3,200	3,500	1,300	8,300	ND ¹¹
	03/10/00	83.23	283.80	0.00	2,500 ²⁰	5,100 ³⁰	340	ND ¹¹	97	450	200
	06/08/00	83.22	283.81	0.00	489 ²⁰	1,200 ³⁰	52.0	ND ¹¹	41.7	356	55.8
	09/25/00	83.37	283.66	0.00	4,380 ²⁰	3,400 ³⁰	305	ND ¹¹	25.4	512	137
	12/19/00	83.27	283.76	0.00	5,600 ³⁵	6,800 ³⁰	260	ND ¹¹	120	950	130
MW-4											
369.03	09/18/96	73.67	295.36	0.00	200	160	14	ND	ND	1.6	ND
	12/21/96	77.69	291.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/07/97	68.04	300.99	0.00	ND	ND	1.9	0.99	ND	1.5	ND
	06/27/97	79.06	289.97	0.00	ND	ND	ND	ND	ND	ND	ND
	09/29/97	85.83	283.20	0.00	ND	ND	ND	ND	ND	ND	ND
	12/15/97	87.26	281.77	0.00	ND	ND	ND	ND	ND	ND	ND
	03/16/98	75.09	293.94	0.00	ND	ND	ND	0.69	ND	0.82	ND
368.81	06/26/98	73.81	295.00	0.00	630 ¹⁶	100 ¹³	62	ND	ND	ND	ND
	08/18/98	78.75	290.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.95	284.86	0.00	74 ²⁰	ND	ND	ND	ND	ND	2.8
	12/15/98	85.41	283.40	0.00	ND	ND	ND	ND	ND	ND	ND
	12/23/98	84.95	283.86	0.00	--	--	--	--	--	--	--
	03/15/99	78.47	290.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/23/99	77.37	291.44	0.00	--	--	--	--	--	--	--
	06/07/99	76.60	292.21	0.00	ND	ND	ND	ND	ND	ND	ND
	09/03/99	87.23	281.58	0.00	66 ¹⁹	ND	ND	ND	ND	ND	ND/ND ²⁷
	12/06/99	92.23	276.58	0.00	95 ¹³	ND	ND	ND	ND	ND	ND
	03/10/00	88.54	280.27	0.00	ND	ND	ND	ND	ND	ND	ND
	06/08/00	86.98	281.83	0.00	72.8 ²⁰	ND	ND	ND	ND	ND	ND
	09/25/00	DRY	--	--	--	--	--	--	--	--	--
	12/19/00	DRY	--	--	--	--	--	--	--	--	--

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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5											
363.23	09/18/96	64.20	299.03	0.00	4,700 ⁵	36,000	6,700	410	730	6,500	4,100
	12/21/96	61.77	301.46	Sheen	4,700 ⁴	25,000	3,200	300	780	3,600	2,600
	03/07/97	56.30	306.93	Sheen	2,100 ⁴	14,000	1,300	120	410	1,200	1,700
	06/27/97	68.88	295.03***	0.90	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	09/29/97	69.47	294.02***	0.35	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/97	64.92	298.54***	0.30	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	03/16/98	49.63	313.67***	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
363.21	06/26/98	64.13	299.08	Sheen	230,000 ¹⁷	490 ¹⁸	6.3	2.8	4.2	5.1	10
	08/18/98	70.40	292.81**	0.005	--	--	--	--	--	--	--
	09/22/98	69.10	294.16**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/98	68.84	294.50**	0.17	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/23/98	68.42	295.18**	0.50	--	--	--	--	--	--	--
	03/15/99	63.81	299.59**	0.25	--	--	--	--	--	--	--
	03/23/99	63.59	299.72**	0.13	--	--	--	--	--	--	--
	06/07/99	68.25	295.59**	0.82	4,700,000 ²⁶	210,000	6,700	3,700	5,000	20,000	11,000/4,000 ²⁷
	09/03/99	69.38	294.37**	0.70	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/06/99	70.02	293.82**	0.82	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	03/10/00	64.56	299.14**	0.64	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	06/08/00	66.47	297.13**	0.51	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	09/25/00	69.02	294.65**	0.60	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/19/00	68.31	295.01**	0.14	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
MW-6											
363.12	09/18/96	79.07	284.05	0.00	ND	160	5.4	ND	ND	ND	ND
	12/21/96	75.40	287.72	0.00	ND	300 ⁸	96	1.3	ND	1.7	21
	03/07/97	67.61	295.51	0.00	190 ⁴	1,800 ⁸	920	18	ND	31	290
	06/27/97	80.45	282.67	0.00	73 ⁵	ND	0.73	ND	ND	38	38
	09/29/97	86.02	277.10	0.00	ND	62 ⁹	ND	ND	ND	ND	43

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-6	12/15/97	84.03	279.09	0.00	ND	78 ⁹	ND	ND	ND	ND	39	
(cont)	03/16/98	67.15	295.97	0.00	100 ¹⁰	210 ¹²	36	2.5	ND	3.0	64	
363.13	06/26/98	75.71	287.42	0.00	180 ¹⁴	530	300	8.3	2.8	8.7	81	
	08/18/98	74.86	288.27	0.00	--	--	--	--	--	--	--	
	09/22/98	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	
	12/15/98	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	
	12/23/98	80.80	282.33	0.00	--	120 ²³	1.1	ND	ND	0.78	25	
	01/23/99	80.68	282.45	0.00	ND	--	--	--	--	--	--	
	03/15/99	75.29	287.84	0.00	71 ²⁴	62 ²²	1.4	ND	ND	ND	23	
	03/23/99	75.03	288.10	0.00	--	--	--	--	--	--	--	
	06/07/99	82.27	280.86	0.00	160 ²⁸	ND	ND	ND	ND	ND	18	
	09/03/99	87.49	275.64	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--
	12/06/99	DRY	--	--	--	--	--	--	--	--	--	
	03/10/00	85.61	277.52	0.00	ND	ND	ND	ND	ND	ND	64	
	06/08/00	87.36	275.77	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--
	09/25/00	DRY	--	--	--	--	--	--	--	--	--	
	12/19/00	87.73	275.40	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--
 MW-7												
355.97	06/26/98	--	--	--	--	--	--	--	--	--	--	
	08/18/98	68.75	287.22	0.00	1,400 ²⁰	4,000	1,900	48	160	ND ¹¹	1,700	
	09/22/98	66.35	289.62	0.00	780 ²⁰	3,200	1,100	ND	22	ND	1,500	
	12/15/98	65.03	290.94	0.00	350 ²¹	1,900 ²²	180	2.7	2.9	3.8	1,400	
	12/23/98	64.82	291.15	0.00	--	--	--	--	--	--	--	
	03/15/99	60.44	295.53	0.00	460 ²⁶	2,700	1,100	ND ¹¹	30	16	1,400/970 ²⁷	
	03/23/99	60.43	295.54	0.00	--	--	--	--	--	--	--	
	06/07/99	64.48	291.49	0.00	550 ²⁵	2,600 ²⁹	180	21	ND	13	1,200	
	09/03/99	69.98	285.99	0.00	550 ²⁰	870 ³⁰	69	ND ¹¹	ND ¹¹	ND ¹¹	1,100/872 ²⁷	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	12/06/99	70.18	285.79	0.00	220 ²⁰	1,900 ³¹	350	ND ¹¹	ND ¹¹	ND ¹¹	1,100
(cont)	03/10/00	67.36	288.61	0.00	930 ²⁰	2,900 ³¹	1,600	ND ¹¹	40	54	1,100
	06/08/00	69.81	286.16	0.00	463 ²⁰	625 ³⁰	30.8	ND	0.761	0.940	1,290 ³⁵
	09/25/00	70.15	285.82	0.00	1,810 ²⁰	2,180 ²²	423	ND ¹¹	ND ¹¹	ND ¹¹	1,510
	12/19/00	70.11	285.86	0.00	930 ³²	5,900 ³¹	1,000	ND ¹¹	ND ¹¹	ND ¹¹	1,300
MW-8											
362.37	06/26/98	63.00	299.37	0.00	80 ¹⁹	ND	6.0	ND	ND	ND	150
	08/18/98	73.38	288.99	0.00	--	--	--	--	--	--	--
	09/22/98	70.89	291.48	0.00	120 ²⁰	ND	ND	ND	ND	ND	9.5
	12/15/98	70.29	292.08	0.00	ND	ND	ND	ND	ND	ND	3.0
	12/23/98	70.03	292.34	0.00	--	--	--	--	--	--	--
	03/15/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
361.83	03/23/99	64.86	296.97	0.00	60 ²⁴	ND	ND	0.77	ND	0.96	190
	06/07/99	68.30	293.53	0.00	ND	ND	ND	ND	ND	ND	ND
	09/03/99	73.92	287.91	0.00	130 ¹⁹	ND	ND	0.57	ND	ND	170/146 ²⁷
	12/06/99	74.98	286.85	0.00	160 ¹⁹	ND	ND	ND	ND	ND	150
	03/10/00	71.54	290.29	0.00	61 ¹⁹	ND	ND	ND	ND	ND	150
	06/08/00	72.60	289.23	0.00	135 ²⁰	ND	ND	ND	ND	ND	42.8
	09/25/00	75.31	286.52	0.00	518 ²⁰	ND	ND	ND	ND	ND	227
	12/19/00	75.54	286.29	0.00	100 ¹⁹	ND	ND	ND	ND	ND	160
MW-9											
354.85	11/29/99	74.50	280.35	0.00	--	--	--	--	--	--	--
	12/06/99	74.35	280.50	0.00	ND	ND	ND	ND	ND	ND	3.0/2.7 ²⁷
	03/10/00	65.94	288.91	0.00	150 ¹⁹	ND	ND	ND	ND	ND	2.5
	06/08/00	70.77	284.08	0.00	67.8 ²⁰	ND	ND	ND	ND	ND	ND
	09/25/00	74.75	280.10	0.00	903 ²⁰	ND	ND	0.516	ND	ND	10.5
	12/19/00	74.43	280.42	0.00	ND	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10											
362.62	11/29/99	DRY	--	--	--	--	--	--	--	--	--
	12/06/99	DRY	--	--	--	--	--	--	--	--	--
	03/10/00 ³³	85.04	277.58	0.00	78 ²⁰	ND	ND	ND	ND	ND	130/150 ²⁷
	06/08/00	DRY	--	--	--	--	--	--	--	--	--
	09/25/00	DRY	--	--	--	--	--	--	--	--	--
	12/19/00	DRY	--	--	--	--	--	--	--	--	--
Trip Blank											
TB-LB	03/16/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/26/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	08/18/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/22/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/15/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/23/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/15/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/23/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/07/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/03/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/06/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/10/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/08/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/25/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/19/00	--	--	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

* TOC elevations have been surveyed relative to mean sea level (msl) per City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (Elevation = 367.17 feet msl). On March 22, 1999, MW-8 was re-surveyed and on November 26, 1999, MW-9 and MW-10 were surveyed, the Benchmark was a cut "+" on a concrete transformer pad on the north side of the property to the northwest (Elevation = 353.92 feet, msl).

** Groundwater elevation corrected for the presence of free product; correction factor = [(TOC-DTW)+(Product Thickness x 0.77)].

*** Groundwater elevation corrected for the presence of free product; correction factor = [(TOC-DTW)+(Product Thickness x 0.75)].

¹ 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.

² Reported as Total Extractable Hydrocarbons (TEH).

³ Reported as Total Petroleum Hydrocarbons (TPH).

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

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

⁶ Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

⁷ Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.

⁸ Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

⁹ Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.

¹⁰ Laboratory report indicates diesel and unidentified hydrocarbons >C16.

¹¹ Detection limit raised. Refer to analytical reports.

¹² Laboratory report indicates gasoline and unidentified hydrocarbons <C7.

¹³ Laboratory report indicates discrete peaks.

¹⁴ Laboratory report indicates diesel and unidentified hydrocarbons >C20.

¹⁵ Laboratory report indicates discrete peaks and unidentified hydrocarbons <C7.

¹⁶ Laboratory report indicates diesel and unidentified hydrocarbons <C15.

¹⁷ Laboratory report indicates diesel and unidentified hydrocarbons <C15 and >C20.

¹⁸ Laboratory report indicates gasoline and unidentified hydrocarbons >C8.

¹⁹ Laboratory report indicates unidentified hydrocarbons >C16.

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

EXPLANATIONS: (cont)

- 20 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 21 Laboratory report indicates diesel and unidentified hydrocarbons <C12.
- 22 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 23 Laboratory report indicates unidentified hydrocarbons C6-C9.
- 24 Laboratory report indicates unidentified hydrocarbons >C14.
- 25 Laboratory report indicates unidentified hydrocarbons >C10.
- 26 Laboratory report indicates unidentified hydrocarbons >C9.
- 27 MTBE by EPA Method 8260.
- 28 Laboratory report indicates unidentified hydrocarbons >C15.
- 29 Laboratory report indicates gasoline and unidentified hydrocarbons >C6.
- 30 Laboratory report indicates gasoline C6-C12.
- 31 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.
- 32 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 33 Well re-developed
- 34 The diesel container for MW-2 was broken at lab, therefore; unable to report diesel result.
- 35 Laboratory report indicates unidentified hydrocarbons <C16.

Table 2
Product Thickness/Removal Data
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Product + Water (Product + Water) gallons
MW-5	03/07/97	56.30	Sheen	--
	06/27/97	68.88	0.90	--
	09/29/97	69.47	0.35	--
	12/15/97	64.92	0.30	--
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	--
	08/18/98	70.40	0.005	--
	09/22/98	69.10	0.06	--
	12/15/98	68.84	0.17	--
	12/23/98	68.42	0.50	--
	03/15/99	63.81	0.25	0.13
	03/23/99	63.59	0.13	0.00
	06/07/99	68.25	0.82	0.94
	09/03/99	69.38	0.70	0.078
	12/06/99	70.02	0.82	0.00
	03/10/00	64.56	0.64	0.00
	06/08/00	66.47	0.51	0.00
09/25/00	69.02	0.60	0.00	
12/19/00	68.31	0.24	0.00	

EXPLANATIONS:

Product thickness/removal data prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available

Table 3
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	09/03/99	ND	ND	55.2	ND	ND	ND
MW-2B	03/15/99	ND	3,800	4,800	13	ND	ND
	09/03/99	ND ²	3,480	4,400	ND ²	ND ²	ND ²
MW-3	09/03/99	ND	ND	82.4	ND	ND	ND
MW-4	09/03/99	ND	ND	ND	ND	ND	ND
MW-5	06/07/99	ND ²	ND ²	4,000 ¹	ND ²	ND ²	ND ²
	09/03/99	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
MW-7	03/15/99	ND	610	970	4.3	ND	ND
	09/03/99	ND ²	460	872	4.36	ND ²	ND ²
MW-8	09/03/99	ND	ND	146	12.4	ND	ND
MW-9	12/06/99 ³	--	ND	2.7	ND	ND	ND
MW-10	03/10/00	--	ND	150	ND	ND	ND

Table
Groundwater Analytical Results - Oxygenate Compounds
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

EXPLANATIONS:

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

- ¹ Laboratory results indicate sample contains high concentration of Hexane.
- ² Detection limit raised. Refer to analytical reports.
- ³ Laboratory report indicates 1,2-Dichloroethane (1,2-DCA) and Ethylene dibromide (EDB) were ND.
- ⁴ Laboratory report indicates ~~1,2-DCA~~ was detected at ~~22 ppb~~ and EDB was ND.

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/ To SLO
 Facility# 7376 Job#: 180075
 Address: 4191 First st. Date: 12/19/00
 City: Pleasanton, Ca. Sampler: Vetter

Well ID MW-1 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 86.43 ft.
 Depth to Water 79.64 ft.

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

6.79 X VF 0.17 = 1.15 X 3 (case volume) = Estimated Purge Volume: 3.5 (gal.)

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

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

Starting Time: 9:10 Weather Conditions: clear
 Sampling Time: 9:35 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:15</u>	<u>1</u>	<u>7.73</u>	<u>788</u>	<u>64.5</u>			
<u>9:20</u>	<u>2</u>	<u>7.56</u>	<u>793</u>	<u>65.3</u>			
<u>9:27</u>	<u>3.5</u>	<u>7.50</u>	<u>797</u>	<u>65.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-1</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>~</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tojco
 Facility # 7376 Job#: 180075
 Address: 4191 First st. Date: 12/19/00
 City: Pleasanton, Ca. Sampler: Vortex

Well ID MW-2B Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 85.25 ft.
 Depth to Water 84.39 ft.

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

0.86 x VF 0.17 = 0.14 x 3 (case volume) = Estimated Purge Volume: 0.5 (gal.)

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

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

Starting Time: 9:50 Weather Conditions: clear
 Sampling Time: 10:05 Water Color: clear Odor: NO
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:52</u>	<u>.15</u>	<u>7.50</u>	<u>1185</u>	<u>65.8</u>			
<u>9:55</u>	<u>.3</u>	<u>7.39</u>	<u>1197</u>	<u>66.7</u>			
<u>9:58</u>	<u>.5</u>	<u>7.38</u>	<u>1210</u>	<u>66.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2B</u>	<u>3 YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-2B</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>~</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ TOJCO
 Facility# 7376 Job#: 180075
 Address: 4191 First St. Date: 12/19/00
 City: Pleasanton, Ca. Sampler: Vertka

Well ID MW-3 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 94.11 ft.
 Depth to Water 83.27 ft.

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

$10.84 \times VF_{0.17} = 1.84 \times 3$ (case volume) = Estimated Purge Volume: 6.0 (gal.)

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

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

Starting Time: 12:33 Weather Conditions: clear
 Sampling Time: 12:58 Water Color: clear
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:35</u>	<u>2</u>	<u>7.43</u>	<u>983</u>	<u>68.9</u>			
<u>12:37</u>	<u>4</u>	<u>7.30</u>	<u>975</u>	<u>68.4</u>			
<u>12:40</u>	<u>6</u>	<u>7.27</u>	<u>969</u>	<u>68.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-3</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>~</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility # 7376
 Address: 4191 First st.
 City: Pleasanton, Ca.

Job#: 180075
 Date: 12/19/00
 Sampler: Vatken

Well ID MW-4

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 92.85 ft.

Depth to Water DRY ft.

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-4	1 Amber	 	NONE	 	TPH-D

COMMENTS: Well is dry

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ To SLC
 Facility# 7376 Job#: 180075
 Address: 4191 First st. Date: 12/19/00
 City: Pleasanton, Ca. Sampler: Naxtkay

Well ID MW-5 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.14 (feet) (product/water): 0 (Gallons)
 Total Depth 72.52 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Factor (VF) 6" = 1.50 12" = 5.80
 Depth to Water 68.31 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 μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3 YVOR	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-	1 Amber	~	NONE	~	TPH-D

COMMENTS: Not sampled due to the presence of

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ TOSCO
 Facility # 7376
 Address: 4191 First St.
 City: Pleasanton, Ca.

Job #: 180075
 Date: 12/19/00
 Sampler: Nattka

Well ID MW-6
 Well Diameter 2 in.
 Total Depth 88.00 ft.
 Depth to Water 87.73 ft.

Well Condition: OK

Hydrocarbon Thickness: <u>0.00</u> (feet)	Amount Bailed (product/water): <u>Ø</u> (Gallons)
Volume Factor (VF) 2" = 0.17	3" = 0.38
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 μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE /	LABORATORY	ANALYSES
MW-	3 x VOA	Y	HCl	SEQUOIA	TPH(G)/btex/tmtbe
MW-	1 Amber	 	NONE	 	TPH-D

COMMENTS: Insufficient water to sample.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility # 7376 Job #: 180075
 Address: 4191 First st. Date: 12/19/00
 City: Pleasanton, Ca. Sampler: Nektar

Well ID: MW-7 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth: 76.90 ft.
 Depth to Water: 70.11 ft.

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

6.79 x VF 0.17 = 1.15 x 3 (case volume) = Estimated Purge Volume: 3.5 (gal.)

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

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

Starting Time: 11:55 Weather Conditions: clear
 Sampling Time: 12:15 Water Color: brn Odor: gas
 Purging Flow Rate: _____ gpm. Sediment Description: silt
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:00</u>	<u>1</u>	<u>7.45</u>	<u>1236</u>	<u>65.8</u>			
<u>12:07</u>	<u>2</u>	<u>7.28</u>	<u>1241</u>	<u>66.4</u>			
<u>12:19</u>	<u>3.5</u>	<u>7.22</u>	<u>1250</u>	<u>66.7</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-7</u>	<u>1 Amber</u>	<u>-</u>	<u>NONE</u>	<u>-</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ TOSCO
 Facility# 7376 Job#: 180075
 Address: 4191 First st. Date: 12/19/00
 City: Pleasanton, Ca. Sampler: Vortex

Well ID MW-8 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 86.40 ft.
 Depth to Water 75.54 ft.

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

10.86 x VF 0.17 = 1.84 x 3 (case volume) = Estimated Purge Volume: 6.0 (gal.)

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

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

Starting Time: 11:15 Weather Conditions: clear
 Sampling Time: 11:40 Water Color: brn Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: soft
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:17</u>	<u>2</u>	<u>7.68</u>	<u>971</u>	<u>67.3</u>			
<u>11:19</u>	<u>4</u>	<u>7.55</u>	<u>985</u>	<u>67.8</u>			
<u>11:21</u>	<u>6</u>	<u>7.50</u>	<u>990</u>	<u>67.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-8</u>	<u>1 Amber</u>	<u>-</u>	<u>NONE</u>	<u>-</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ ToSCC
 Facility# 7376 Job#: 180075
 Address: 4191 First st. Date: 12/19/00
 City: Pleasanton, Ca. Sampler: Nattka

Well ID MW-9 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 78.20 ft.
 Depth to Water 74.43 ft.

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

3.77 x VF 0.17 = 0.64 x 3 (case volume) = Estimated Purge Volume: 2.0 (gal.)

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

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

Starting Time: 10:32 Weather Conditions: Clear
 Sampling Time: 10:55 Water Color: brn Odor: NO
 Purging Flow Rate: _____ gpm. Sediment Description: Silt
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:37</u>	<u>.5</u>	<u>7.60</u>	<u>829</u>	<u>64.5</u>			
<u>10:42</u>	<u>1</u>	<u>7.48</u>	<u>850</u>	<u>64.8</u>			
<u>10:47</u>	<u>2</u>	<u>7.47</u>	<u>858</u>	<u>65.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3 X VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-9</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>~</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ ToSCO
 Facility# 7376
 Address: 4191 First st.
 City: Pleasanton, Ca.

Job#: 180075
 Date: 12/19/00
 Sampler: Nattkan

Well ID MW-10

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Amount Bailed
 Thickness: 0.002 (feet) (product/water): Ø (Gallons)

Total Depth 92.90 ft.

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

Depth to Water DRY 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 μ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW	3 x VOA	Y	HCl	SEQUOIA	TPH(GI)/btex/tmtbe
MW-	1 Amber	-	NONE	-	TPH-D

COMMENTS: Well is dry



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

Facility Number TOSCO (UNOCAL) SS#7376
 Facility Address 4191 First Street, Pleasanton, CA
 Consultant Project Number 180075.85
 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) DAVID DEWITT
925-718-8100
 (Phone) (510) 277-1384
 Laboratory Name Sequoia Analytical
 Laboratory Release Number W012570
 Samples Collected by (Name) Vartkes Tashjian
 Collection Date 12/19/00
 Signature David Dewitt

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composites D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analyses To Be Performed											DO NOT BILL TB-LB ANALYSIS	Remarks				
								TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)									
TB-LB	-01 A	1	W	C		HCl	Y	X																
MW-1	-02 A-D	4	W	-	9 ³⁰ A			X	X															
MW-2B	-03	4	W	-	10 ⁰⁰ A			X	X															
MW-3	-04	4	W	-	12 ⁵⁸ P			X	X															
MW-7	-05	4	W	-	12 ¹⁵ P			X	X															
MW-8	-06	4	W	-	11 ⁴⁰ A			X	X															
MW-9	-07	4	W	-	10 ³⁵ A			X	X															

Relinquished By (Signature) <i>Deanna L. Harding</i>	Organization G-R Inc.	Date/Time 12/19/00	Received By (Signature) <i>Mark Colli</i>	Organization Sequoia	Date/Time 12/21/00/1140	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <i>Mark Colli</i>	Organization SoC	Date/Time 12/21/00/1355	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>W.C. ...</i>	Organization	Date/Time 12/21/00 13:05	



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
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19 January, 2001

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco
Sequoia Report: W012570

Enclosed are the results of analyses for samples received by the laboratory on 21-Dec-00 13:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W012570-01	Water	19-Dec-00 00:00	21-Dec-00 13:05
MW-1	W012570-02	Water	19-Dec-00 09:35	21-Dec-00 13:05
MW-2B	W012570-03	Water	19-Dec-00 10:05	21-Dec-00 13:05
MW-3	W012570-04	Water	19-Dec-00 12:58	21-Dec-00 13:05
MW-7	W012570-05	Water	19-Dec-00 12:15	21-Dec-00 13:05
MW-8	W012570-06	Water	19-Dec-00 11:40	21-Dec-00 13:05
MW-9	W012570-07	Water	19-Dec-00 10:55	21-Dec-00 13:05

Sequoia Analytical - Walnut Creek

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.

Charlie Westwater, Project Manager





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W012570-01) Water Sampled: 19-Dec-00 00:00 Received: 21-Dec-00 13:05									
Purgeable Hydrocarbons	ND	50	ug/l	1	1A01001	01-Jan-01	01-Jan-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130	"	"	"	"	"	
MW-1 (W012570-02) Water Sampled: 19-Dec-00 09:35 Received: 21-Dec-00 13:05									
Purgeable Hydrocarbons	ND	50	ug/l	1	1A01002	01-Jan-01	01-Jan-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	330	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	70-130	"	"	"	"	"	
MW-2B (W012570-03) Water Sampled: 19-Dec-00 10:05 Received: 21-Dec-00 13:05									
Purgeable Hydrocarbons	ND	1000	ug/l	20	1A01002	01-Jan-01	01-Jan-01	EPA 8015M/8020	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	6000	50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		110 %	70-130	"	"	"	"	"	



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W012570-04) Water Sampled: 19-Dec-00 12:58 Received: 21-Dec-00 13:05									P-01
Purgeable Hydrocarbons	6800	1000	ug/l	20	1A01002	01-Jan-01	01-Jan-01	EPA 8015M/8020	
Benzene	260	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	120	10	"	"	"	"	"	"	
Xylenes (total)	950	10	"	"	"	"	"	"	
Methyl tert-butyl ether	130	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.3 %		70-130	"	"	"	"	
MW-7 (W012570-05) Water Sampled: 19-Dec-00 12:15 Received: 21-Dec-00 13:05									P-02
Purgeable Hydrocarbons	5900	1000	ug/l	20	1A09013	02-Jan-01	02-Jan-01	EPA 8015M/8020	
Benzene	1000	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	1300	50	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		97.0 %		70-130	"	"	"	"	
MW-8 (W012570-06) Water Sampled: 19-Dec-00 11:40 Received: 21-Dec-00 13:05									
Purgeable Hydrocarbons	ND	50	ug/l	1	1A01001	01-Jan-01	01-Jan-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	160	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		115 %		70-130	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W012570-07) Water Sampled: 19-Dec-00 10:55 Received: 21-Dec-00 13:05									
Purgeable Hydrocarbons	ND	50	ug/l	I	1A01002	01-Jan-01	01-Jan-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		108 %		70-130	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

**Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W012570-02) Water Sampled: 19-Dec-00 09:35 Received: 21-Dec-00 13:05									
Diesel Range Hydrocarbons	ND	50	ug/l	1	0L29010	29-Dec-00	30-Dec-00	EPA 8015M	
Surrogate: n-Pentacosane		91.0 %	50-150		"	"	"	"	
MW-2B (W012570-03) Water Sampled: 19-Dec-00 10:05 Received: 21-Dec-00 13:05									
Diesel Range Hydrocarbons	700	500	ug/l	5	0L29010	29-Dec-00	03-Jan-01	EPA 8015M	D-12
Surrogate: n-Pentacosane		100 %	50-150		"	"	"	"	
MW-3 (W012570-04) Water Sampled: 19-Dec-00 12:58 Received: 21-Dec-00 13:05									
Diesel Range Hydrocarbons	5600	250	ug/l	5	1A02015	02-Jan-01	05-Jan-01	EPA 8015M	D-11
Surrogate: n-Pentacosane		165 %	50-150		"	"	"	"	S-04
MW-7 (W012570-05) Water Sampled: 19-Dec-00 12:15 Received: 21-Dec-00 13:05									
Diesel Range Hydrocarbons	930	50	ug/l	1	1A02015	02-Jan-01	03-Jan-01	EPA 8015M	D-02
Surrogate: n-Pentacosane		137 %	50-150		"	"	"	"	
MW-8 (W012570-06) Water Sampled: 19-Dec-00 11:40 Received: 21-Dec-00 13:05									
Diesel Range Hydrocarbons	100	50	ug/l	1	1A02015	02-Jan-01	03-Jan-01	EPA 8015M	D-12
Surrogate: n-Pentacosane		109 %	50-150		"	"	"	"	
MW-9 (W012570-07) Water Sampled: 19-Dec-00 10:55 Received: 21-Dec-00 13:05									
Diesel Range Hydrocarbons	ND	50	ug/l	1	1A02015	02-Jan-01	03-Jan-01	EPA 8015M	
Surrogate: n-Pentacosane		149 %	50-150		"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A01001 - EPA 5030B [P/T]										
Blank (1A01001-BLK1) Prepared & Analyzed: 01-Jan-01										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	35.2		"	30.0		117	70-130			
LCS (1A01001-BS1) Prepared & Analyzed: 01-Jan-01										
Benzene	17.9	0.50	ug/l	20.0		89.5	70-130			
Toluene	19.0	0.50	"	20.0		95.0	70-130			
Ethylbenzene	19.7	0.50	"	20.0		98.5	70-130			
Xylenes (total)	60.7	0.50	"	60.0		101	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	30.2		"	30.0		101	70-130			
Matrix Spike (1A01001-MS1) Source: W012570-06 Prepared & Analyzed: 01-Jan-01										
Benzene	20.2	0.50	ug/l	20.0	ND	101	70-130			
Toluene	20.5	0.50	"	20.0	ND	103	70-130			
Ethylbenzene	21.2	0.50	"	20.0	ND	106	70-130			
Xylenes (total)	63.7	0.50	"	60.0	ND	106	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	32.2		"	30.0		107	70-130			
Matrix Spike Dup (1A01001-MSD1) Source: W012570-06 Prepared & Analyzed: 01-Jan-01										
Benzene	19.7	0.50	ug/l	20.0	ND	98.5	70-130	2.51	20	
Toluene	19.9	0.50	"	20.0	ND	99.5	70-130	2.97	20	
Ethylbenzene	20.6	0.50	"	20.0	ND	103	70-130	2.87	20	
Xylenes (total)	62.0	0.50	"	60.0	ND	103	70-130	2.70	20	
<i>Surrogate: a, a, a-Trifluorotoluene</i>	32.1		"	30.0		107	70-130			



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

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

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

Batch 1A01002 - EPA 5030B [P/T]

Blank (1A01002-BLK1)

Prepared & Analyzed: 01-Jan-01

S-03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	45.0		"	30.0		150	70-130			

LCS (1A01002-BS1)

Prepared & Analyzed: 01-Jan-01

Benzene	18.6	0.50	ug/l	20.0		93.0	70-130			
Toluene	18.7	0.50	"	20.0		93.5	70-130			
Ethylbenzene	18.4	0.50	"	20.0		92.0	70-130			
Xylenes (total)	54.4	0.50	"	60.0		90.7	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	30.0		"	30.0		100	70-130			

Matrix Spike (1A01002-MS1)

Source: W012567-02

Prepared & Analyzed: 01-Jan-01

Benzene	21.2	0.50	ug/l	20.0	ND	106	70-130			
Toluene	21.3	0.50	"	20.0	ND	106	70-130			
Ethylbenzene	21.2	0.50	"	20.0	ND	106	70-130			
Xylenes (total)	60.8	0.50	"	60.0	ND	101	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	36.6		"	30.0		122	70-130			

Matrix Spike Dup (1A01002-MSD1)

Source: W012567-02

Prepared & Analyzed: 01-Jan-01

S-03

Benzene	21.0	0.50	ug/l	20.0	ND	105	70-130	0.948	20	
Toluene	21.2	0.50	"	20.0	ND	106	70-130	0.471	20	
Ethylbenzene	21.9	0.50	"	20.0	ND	109	70-130	3.25	20	
Xylenes (total)	61.5	0.50	"	60.0	ND	103	70-130	1.14	20	
<i>Surrogate: a, a, a-Trifluorotoluene</i>	40.1		"	30.0		134	70-130			





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Dublin CA, 94568

Project: Tosco
Project Number: Tosco # 7376
Project Manager: Deanna L. Harding

Reported:
19-Jan-01 07:49

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A09013 - EPA 5030B [P/T]										
Blank (1A09013-BLK1) Prepared & Analyzed: 02-Jan-01										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	39.9		"	30.0		133	70-130			S-03
LCS (1A09013-BS1) Prepared & Analyzed: 02-Jan-01										
Benzene	17.3	0.50	ug/l	20.0		86.5	70-130			
Toluene	17.3	0.50	"	20.0		86.5	70-130			
Ethylbenzene	17.1	0.50	"	20.0		85.5	70-130			
Xylenes (total)	50.8	0.50	"	60.0		84.7	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	27.8		"	30.0		92.7	70-130			
Matrix Spike (1A09013-MS1) Source: W012587-03 Prepared & Analyzed: 02-Jan-01										
Benzene	16.9	0.50	ug/l	20.0	ND	84.5	70-130			
Toluene	17.6	0.50	"	20.0	0.70	84.5	70-130			
Ethylbenzene	17.0	0.50	"	20.0	ND	85.0	70-130			
Xylenes (total)	50.8	0.50	"	60.0	ND	84.7	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	28.5		"	30.0		95.0	70-130			
Matrix Spike Dup (1A09013-MSD1) Source: W012587-03 Prepared & Analyzed: 02-Jan-01										
Benzene	17.8	0.50	ug/l	20.0	ND	89.0	70-130	5.19	20	
Toluene	18.2	0.50	"	20.0	0.70	87.5	70-130	3.35	20	
Ethylbenzene	17.6	0.50	"	20.0	ND	88.0	70-130	3.47	20	
Xylenes (total)	52.2	0.50	"	60.0	ND	87.0	70-130	2.72	20	
<i>Surrogate: a, a, a-Trifluorotoluene</i>	29.2		"	30.0		97.3	70-130			





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**Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L29010 - EPA 3510B										
Blank (0L29010-BLK1)					Prepared: 29-Dec-00 Analyzed: 31-Dec-00					
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	27.3		"	33.3		82.0	50-150			
LCS (0L29010-BS1)					Prepared: 29-Dec-00 Analyzed: 08-Jan-01					
Diesel Range Hydrocarbons	302	50	ug/l	500		60.4	60-140			
Surrogate: n-Pentacosane	45.3		"	33.3		136	50-150			
LCS Dup (0L29010-BSD1)					Prepared: 29-Dec-00 Analyzed: 08-Jan-01					
Diesel Range Hydrocarbons	210	50	ug/l	500		42.0	60-140	35.9	50	Q-01
Surrogate: n-Pentacosane	30.3		"	33.3		91.0	50-150			
Batch 1A02015 - EPA 3510B										
Blank (1A02015-BLK1)					Prepared & Analyzed: 02-Jan-01					
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	49.7		"	33.3		149	50-150			
LCS (1A02015-BS1)					Prepared & Analyzed: 02-Jan-01					
Diesel Range Hydrocarbons	358	50	ug/l	500		71.6	60-140			
Surrogate: n-Pentacosane	48.7		"	33.3		146	50-150			
LCS Dup (1A02015-BSD1)					Prepared & Analyzed: 02-Jan-01					
Diesel Range Hydrocarbons	352	50	ug/l	500		70.4	60-140	1.69	50	
Surrogate: n-Pentacosane	56.0		"	33.3		168	50-150			S-03





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Notes and Definitions

- CC-3 Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
- D-02 Chromatogram Pattern: Unidentified Hydrocarbons C9-C40.
- D-11 Chromatogram Pattern: Unidentified Hydrocarbons < C16
- D-12 Chromatogram Pattern: Unidentified Hydrocarbons > C16
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-02 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons <C6
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- S-03 The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- 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

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