



GETTLER-RYAN INC.

TRANSMITTAL

February 6, 2001

G-R #180061

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 #5325
3220 Lakeshore Avenue
Oakland, California

PO # 2001
Barney Chiu

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 2, 2001	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of December 12, 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 16, 2001**, this report will be distributed to the following:

cc: ~~Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502~~

Enclosure

trans/5325-DBD



GETTLER-RYAN INC.

February 2, 2001
G-R Job #180061

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

RE: Fourth Quarter 2000 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

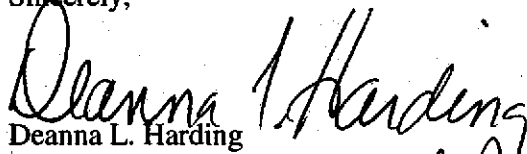
Dear Mr. De Witt:

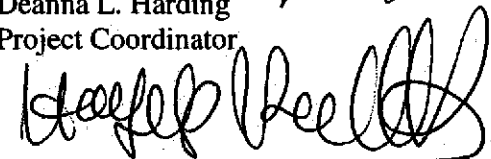
This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On December 12, 2000, field personnel monitored and sampled six wells (U-1 through U-6) at the above referenced site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 4. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by Standard Operating Procedure Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1, 2 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


Hagop Kevork
P.E. No. C55734

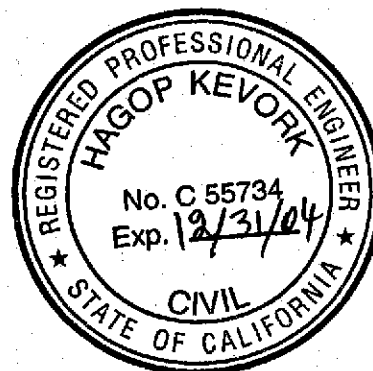
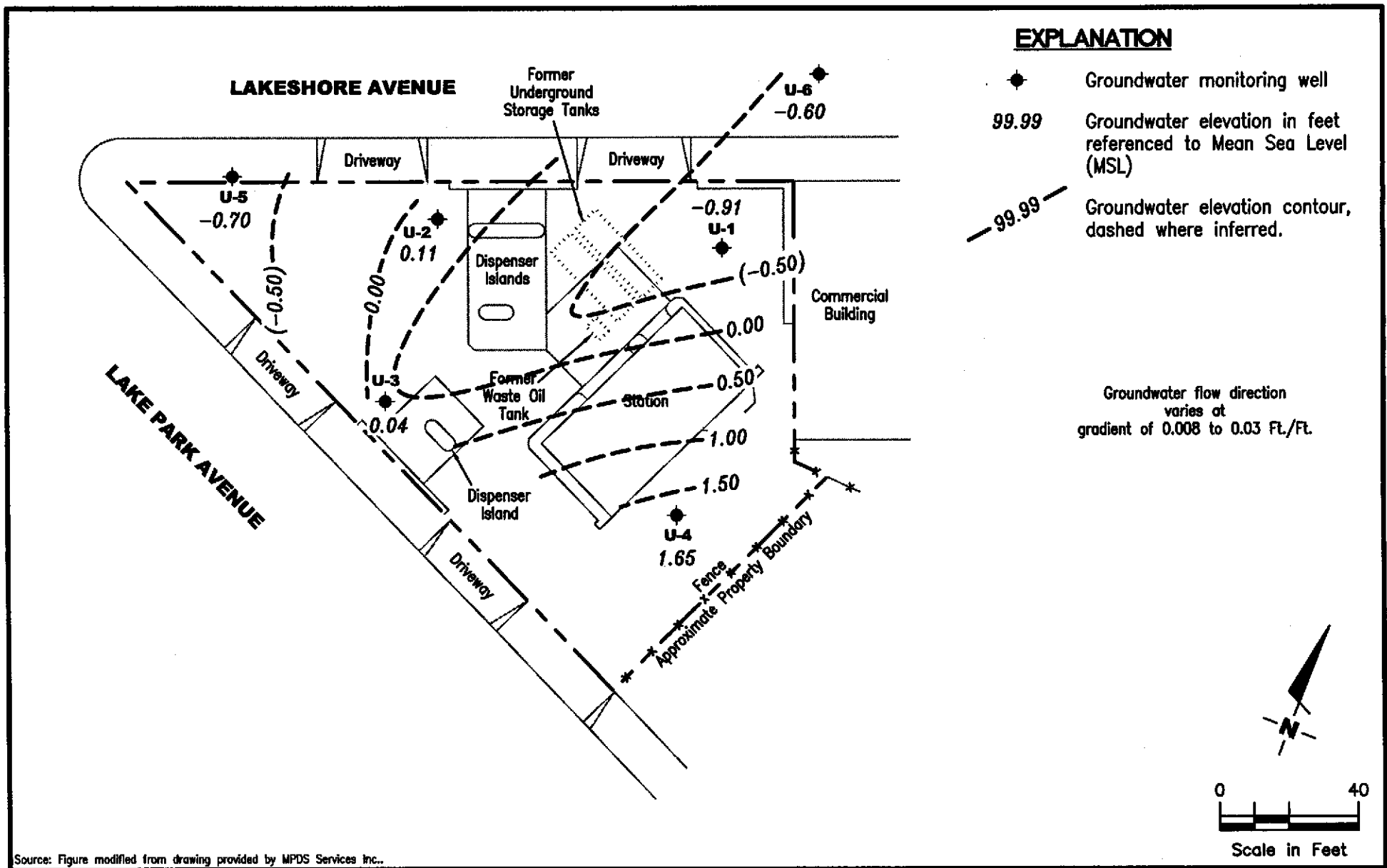


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Groundwater Analytical Results
Table 4: Dissolved Oxygen Concentrations
Attachments: Standard Operating Procedure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

5325.qml



EXPLANATION

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 - Groundwater elevation contour, dashed where inferred.

Groundwater flow direction varies at gradient of 0.008 to 0.03 Ft./Ft.

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

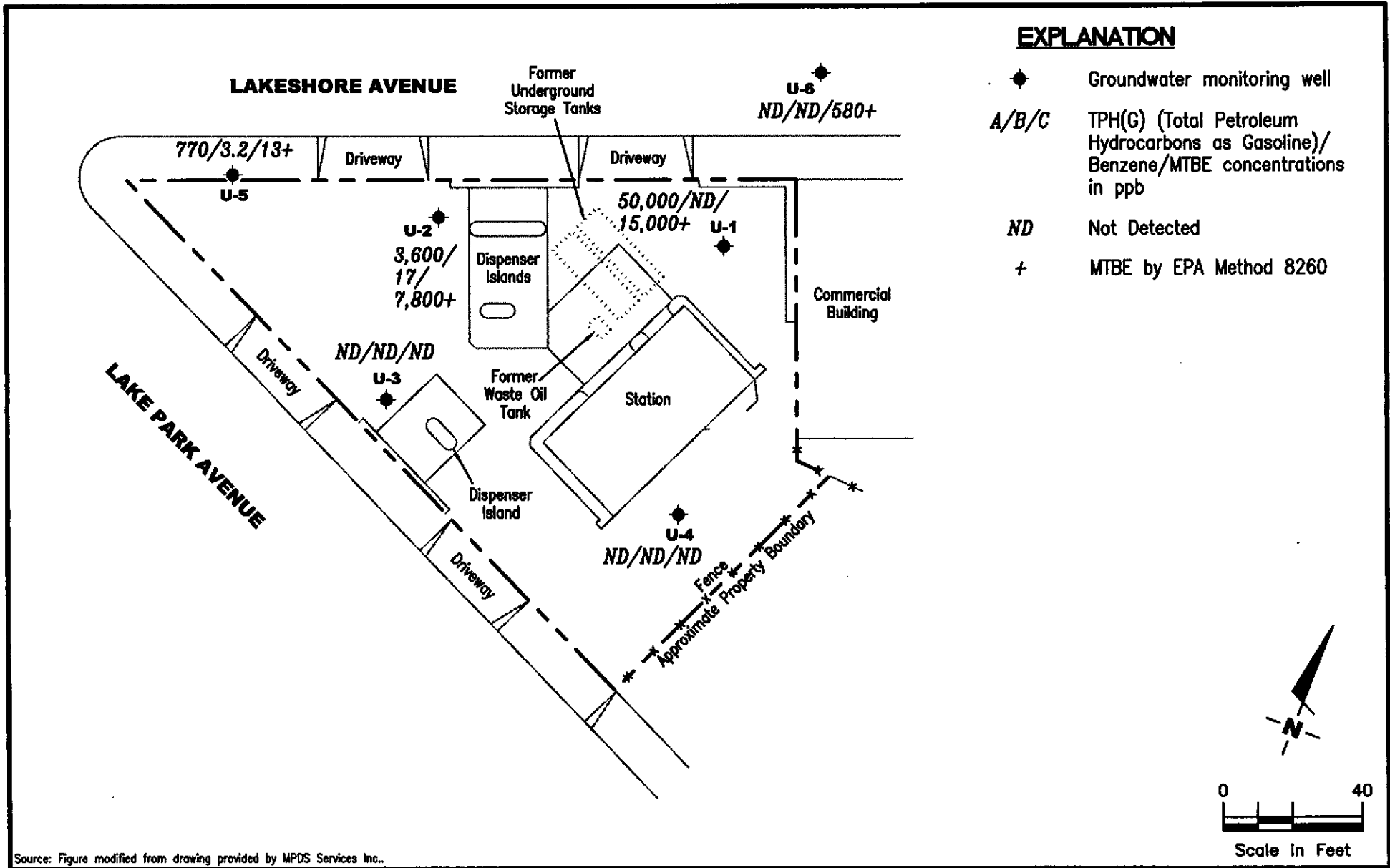
GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

FIGURE
1

PROJECT NUMBER 0061	REVIEWED BY	DATE December 12, 2000	REVISED DATE
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NAME: P:\ENVIRO\TOSCO\5325\Q00-5325.DWG | Layout Tab: Pot4



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

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

CONCENTRATION MAP
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

FIGURE

2

PROJECT NUMBER
 180061

REVIEWED BY

DATE
 December 12, 2000

REVISED DATE

FILE NAME: P:\ENMRO\TOSCO\5325\000-5325.DWG | Layout Tab: Con4

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1	08/10/90	--	--	--	690	38	75	8.6	130	--
	01/07/91	--	--	--	250	22	16	4.2	17	--
	04/01/91	--	--	--	160	13	8.6	1.0	15	--
	07/03/91	--	--	--	140	21	4.3	0.36	17	--
	10/09/91	--	--	--	ND	ND	ND	ND	ND	--
	02/12/92	--	--	--	250	ND	ND	ND	ND	--
	05/05/92	--	--	--	230	1.2	ND	ND	ND	--
	06/11/92	--	--	--	1,000	80	1.4	6.7	41	--
	08/20/92	--	--	--	400 ¹	1.0	ND	ND	0.6	--
	02/22/93	--	--	--	34,000	1,400	5,500	910	7,300	--
	05/07/93	--	--	--	8,700	600	240	650	3,300	--
	08/08/93	--	--	--	4,900 ²	79	ND	832	270	--
5.32	11/16/93	8.61	-3.29	0.00	690 ³	ND	ND	ND	ND	--
	02/16/94	8.54	-3.22	0.00	6,800 ⁴	ND	ND	ND	ND	--
8.46	06/22/94	8.39	0.07	0.00	200	ND	ND	5.9	21	--
	09/22/94	8.66	-0.20	0.00	6,100 ³	ND	ND	ND	ND	--
	12/24/94	8.04	0.42	0.00	50,000	2,500	9,700	2,400	17,000	--
	03/25/95	7.72	1.02**	0.37	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	06/21/95	9.30	-0.69**	0.20	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	09/19/95	9.29	-0.53**	0.40	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	12/19/95	8.98	-0.50**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	03/18/96	8.25	0.21	0.00	27,000	ND	2,300	1,400	11,000	4,900
	06/27/96	7.92	0.54	<0.01	120,000	540	4,300	2,600	26,000	ND
	09/26/96	9.10	-0.62**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	12/09/96	6.88	1.60**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	03/14/97	9.02	-0.15**	0.55	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	06/30/97	8.41	0.07**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	09/19/97	8.56	-0.08**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	12/12/97	8.58	-0.11**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	03/03/98	8.23	0.26**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	06/15/98	8.37	0.09	Sheen	52,000	ND ⁷	900	1,800	13,000	ND ⁷
	09/30/98	8.94	-0.48	Sheen	1,000,000 ⁸	ND ⁷	2,600	13,000	83,000	4,800

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1	12/28/98	8.57	-0.11	<0.01	1,100,000 ⁹	ND ⁷	1,600	8,600	71,000	5,700
(cont)	03/22/99	8.18	0.28	Sheen	130,000	470	1,100	2,000	28,000	5,700
	06/09/99	9.37	-0.91	0.00	40,000	230	640	590	13,000	3,500/2,100 ¹⁰
	09/08/99	9.53	-1.07	0.00	55,000 ¹¹	217	202	745	14,300	6,890/6,690 ¹⁰
	12/07/99	9.67	-1.21	0.00	41,200 ¹³	89.3	ND ⁷	385	6,930	15,800/14,700 ¹²
	03/13/00	8.44	0.02	0.00	48,000 ¹¹	490	610	2,400	10,000	22,000/23,000 ¹⁰
	06/21/00	9.45	-0.99	0.00	37,000 ¹¹	200	ND ⁷	1,200	7,200	15,000/20,000 ¹⁰
	09/27/00	9.29	-0.83	0.00	15,000 ¹¹	92	ND ⁷	540	2,800	74,000/83,000 ¹⁵
	12/12/00	9.37	-0.91	0.00	50,000 ¹⁶	ND ⁷	ND ⁷	250	1,900	12,000/15,000 ¹²
U-2	08/10/90	--	--	--	780	27	46	15	130	--
	01/07/91	--	--	--	1,900	67	5.8	58	69	--
	04/01/91	--	--	--	1,700	250	89	34	190	--
	07/03/91	--	--	--	2,100	150	25	3.1	290	--
	10/09/91	--	--	--	230	7.1	ND	ND	11	--
	02/12/92	--	--	--	410	1.9	ND	0.36	0.4	--
	05/05/92	--	--	--	1,600	120	52	6.2	290	--
	06/11/92	--	--	--	620	17	2.1	ND	37	--
	08/20/92	--	--	--	700	28	6.5	1.3	4.6	--
	02/22/93	--	--	--	3,400	2,400	2,100	1,200	5,800	--
	05/07/93	--	--	--	17,000	1,800	660	1,700	4,000	--
	08/08/93	--	--	--	5,600 ²	420	ND	410	670	--
4.53	11/16/93	8.17	-3.64	0.00	510 ³	ND	ND	ND	ND	--
	02/16/94	7.73	-3.20	0.00	980 ⁴	49	13	2.7	40	--
7.62	06/22/94	7.60	0.02	0.00	31,000	2,200	62	1,500	3,500	--
	09/22/94	7.93	-0.31	0.00	8,500 ³	29	ND	ND	ND	--
	12/24/94	7.27	0.35	0.00	32,000	1,500	890	1,300	5,000	--
	03/25/95	7.01	0.61	0.00	170,000	1,900	21,000	4,800	33,000	--
	06/21/95	6.98	0.64	0.00	16,000	2,100	ND	1,800	1,700	--
	09/19/95	7.70	-0.08	0.00	3,000	610	ND	78	240	-- ⁵
	12/19/95	7.30	0.32	0.00	1,600	140	55	52	270	-- ⁶
	03/18/96	6.45	1.17	0.00	12,000	2,200	ND	1,200	2,200	22,000

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
U-2	06/27/96	7.41	0.21	0.00	28,000	3,400	ND	2,800	3,100	3,000	
(cont)	09/26/96	7.90	-0.28	0.00	5,900	750	ND	ND	ND	18,000	
	12/09/96	6.76	0.86	0.00	13,000	5,100	290	980	370	2,700	
	03/14/97	7.12	0.52**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	06/30/97	6.19	1.43	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	09/19/97	7.31	0.31	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/12/97	6.75	0.88**	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	03/03/98	6.36	1.26	Sheen	80,000	3,000	1,100	820	16,000	16,000	
	06/15/98	6.51	1.11	Sheen	48,000	1,800	330	470	7,900	20,000	
	09/30/98	7.17	0.45	Sheen	60,000	1,300	ND ⁷	500	9,700	19,000	
	12/28/98	7.06	0.56	0.00	63,000	590	160	320	5,600	16,000	
	03/22/99	6.82	0.80	0.00	28,000	1,100	ND ⁷	360	2,900	25,000	
	06/09/99	7.51	0.11	0.00	21,000	110	190	310	2,600	7,900/7,800 ¹⁰	
	09/08/99	8.16	-0.54	0.00	23,300 ¹¹	477	138	286	4,110	16,400/15,300 ¹⁰	
	12/07/99	8.31	-0.69	0.00	4,840 ¹³	17.2	ND ⁷	ND ⁷	157	14,900/15,600 ¹²	
	03/13/00	6.69	0.93	0.00	11,000 ¹¹	380	160	ND ⁷	2,100	22,000/26,000 ¹⁰	
	06/21/00	7.67	-0.05	0.00	9,100 ¹¹	22	ND ⁷	ND ⁷	800	16,000/22,000 ¹⁰	
	09/27/00	7.44	0.18	0.00	2,900 ¹¹	43	ND ⁷	ND ⁷	39	20,000/26,000 ¹⁵	
	12/12/00	7.51	0.11	0.00	3,600 ¹¹	17	ND ⁷	ND ⁷	87	8,000/7,800 ¹²	
U-3	08/10/90	--	--	--	ND	ND	ND	ND	ND	--	
	01/07/91	--	--	--	ND	ND	ND	ND	1.8	--	
	04/01/91	--	--	--	ND	1.0	2.9	0.53	5.4	--	
	07/03/91	--	--	--	ND	ND	ND	ND	ND	--	
	10/09/91	--	--	--	ND	ND	ND	ND	ND	--	
	02/12/92	--	--	--	ND	ND	ND	ND	ND	--	
	05/05/92	--	--	--	ND	ND	ND	ND	ND	--	
	06/11/92	--	--	--	ND	ND	ND	ND	ND	--	
	08/20/92	--	--	--	ND	ND	ND	ND	ND	--	
	02/22/93	--	--	--	ND	ND	ND	ND	ND	--	

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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-3	05/07/93	--	--	--	ND	ND	ND	ND	ND	--
(cont)	08/08/93	--	--	--	210	5.0	9.7	0.7	4.1	--
7.86	11/16/93	11.82	-3.96	0.00	ND	ND	ND	ND	ND	--
	02/16/94	11.62	-3.76	0.00	ND	ND	ND	ND	ND	--
10.98	06/22/94	11.64	-0.66	0.00	ND	ND	ND	ND	ND	--
	09/22/94	11.76	-0.78	0.00	ND	ND	ND	ND	ND	--
	12/24/94	11.28	-0.30	0.00	ND	ND	ND	ND	ND	--
	03/25/95	10.96	0.02	0.00	ND	ND	ND	ND	ND	--
	06/21/95	11.37	-0.39	0.00	ND	ND	ND	ND	ND	--
	09/19/95	11.55	-0.57	0.00	ND	ND	ND	ND	ND	-- ⁵
	12/19/95	11.45	-0.47	0.00	ND	ND	ND	ND	ND	--
	03/18/96	11.10	-0.12	0.00	ND	ND	ND	ND	ND	--
	06/27/96	11.16	-0.18	0.00	440	49	50	51	140	50
	09/26/96	11.55	-0.57	0.00	ND	ND	ND	ND	ND	ND
	12/09/96	10.12	0.86	0.00	ND	ND	ND	ND	ND	29
	03/14/97	10.87	0.11	0.00	ND	ND	ND	ND	ND	ND
	06/30/97	11.08	-0.10	0.00	ND	ND	ND	ND	ND	ND
	09/19/97	11.05	-0.07	0.00	ND	ND	ND	ND	ND	ND
	12/12/97	10.58	0.40	0.00	ND	ND	ND	ND	ND	ND
	03/03/98	9.84	1.14	0.00	ND	ND	ND	ND	ND	ND
	06/15/98	10.56	0.42	0.00	ND	ND	ND	ND	ND	ND
	09/30/98	11.12	-0.14	0.00	ND	ND	ND	ND	ND	ND
	12/28/98	10.96	0.02	0.00	ND	ND	ND	ND	ND	ND
	03/22/99	9.46	1.52	0.00	ND	ND	ND	ND	ND	ND
	06/09/99	11.01	-0.03	0.00	ND	ND	ND	ND	ND	ND
	09/08/99	11.31	-0.33	0.00	ND	ND	ND	ND	ND	ND
	12/07/99	11.26	-0.28	0.00	ND	ND	ND	ND	ND	ND
	03/13/00	8.28	2.70	0.00	ND	ND	ND	ND	ND	ND
	06/21/00	11.12	-0.14	0.00	ND	ND	ND	ND	ND	ND
	09/27/00	11.07	-0.09	0.00	ND	ND	ND	ND	ND	ND
	12/12/00	10.94	0.04	0.00	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-4										
11.15	06/22/94	10.16	0.99	0.00	ND	ND	ND	ND	ND	--
	09/22/94	10.79	0.36	0.00	ND	0.78	1.3	ND	1.4	--
	12/24/94	9.81	1.34	0.00	ND	ND	ND	ND	ND	--
	03/25/95	9.51	1.64	0.00	ND	ND	ND	ND	ND	--
	06/21/95	9.54	1.61	0.00	ND	ND	ND	ND	ND	--
	09/19/95	10.17	0.98	0.00	ND	ND	ND	ND	ND	--
	12/19/95	9.98	1.17	0.00	ND	ND	ND	ND	ND	--
	03/18/96	9.66	1.49	0.00	ND	ND	ND	ND	ND	--
	06/27/96	9.74	1.41	0.00	ND	ND	ND	ND	ND	ND
	09/26/96	10.14	1.01	0.00	ND	ND	ND	ND	ND	ND
	12/09/96	8.67	2.48	0.00	ND	ND	ND	ND	ND	33
	03/14/97	9.35	1.80	0.00	ND	ND	ND	ND	ND	ND
	06/30/97	9.89	1.26	0.00	ND	ND	ND	ND	ND	ND
	09/19/97	9.96	1.19	0.00	ND	ND	ND	ND	ND	ND
	12/12/97	8.56	2.59	0.00	ND	ND	ND	ND	ND	ND
	03/03/98	7.85	3.30	0.00	ND	ND	ND	ND	ND	ND
	06/15/98	9.08	2.07	0.00	ND	ND	ND	ND	ND	ND
	09/30/98	9.75	1.40	0.00	ND	ND	ND	ND	ND	ND
	12/28/98	9.59	1.56	0.00	ND	ND	ND	ND	ND	ND
	03/22/99	8.34	2.81	0.00	ND	ND	ND	ND	ND	ND
	06/09/99	9.39	1.76	0.00	ND	ND	ND	ND	ND	ND
	09/08/99	9.90	1.25	0.00	ND	ND	ND	ND	ND	ND
	12/07/99	10.05	1.10	0.00	ND	ND	ND	ND	ND	ND
	03/13/00	7.24	3.91	0.00	ND	ND	ND	ND	ND	ND
	06/21/00	9.48	1.67	0.00	ND	ND	ND	ND	ND	ND
	09/27/00	9.42	1.73	0.00	ND	ND	ND	ND	ND	ND
	12/12/00	9.50	1.65	0.00	ND	ND	ND	ND	ND	ND

Table 1
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 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-5										
6.98	06/22/94	6.83	0.15	0.00	210	7.1	13	4.5	26	--
	09/22/94	6.90	0.08	0.00	170	8.4	10	8.5	18	--
	12/24/94	6.43	0.55	0.00	8,700	560	70	670	430	--
	03/25/95	6.35	0.63	0.00	44,000	390	960	1,500	7,600	--
	06/21/95	7.11	-0.13	0.00	400	2.3	ND	9.1	3.5	--
	09/19/95	6.99	-0.01	0.00	850	14	7.1	13	66	-- ⁵
	12/19/95	7.17	-0.19	0.00	ND	ND	ND	ND	ND	--
	03/18/96	6.65	0.33	0.00	100	0.67	0.5	0.51	5.4	--
	06/27/96	6.49	0.49	0.00	16,000	280	150	1,400	4,600	530
	09/26/96	7.13	-0.15	0.00	ND	ND	0.57	ND	0.96	ND
	12/09/96	5.90	1.08	0.00	1,300	29	46	ND	140	97
	03/14/97	6.99	-0.01	0.00	ND	ND	ND	ND	ND	14
	06/30/97	7.08	-0.10	0.00	4,200	74	51	180	980	270
	09/19/97	6.78	0.20	0.00	6,300	160	13	370	1000	480
	12/12/97	6.94	0.04	0.00	60	1.3	ND	1.6	2.1	47
	03/03/98	6.50	0.48	0.00	1,700	29	ND ⁷	150	190	330
	06/15/98	6.85	0.13	0.00	1,500	32	ND ⁷	91	83	330
	09/30/98	7.31	-0.33	0.00	1,700	44	ND ⁷	39	150	60
	12/28/98	7.25	-0.27	0.00	1,400	59	ND ⁷	13	27	150
	03/22/99	6.86	0.12	0.00	780	8.9	ND	0.76	4.5	350
	06/09/99	7.28	-0.30	0.00	1,000	ND ⁷	ND ⁷	10	35	280/350 ¹⁰
	09/08/99	7.52	-0.54	0.00	2,620 ¹¹	26.2	ND ⁷	32.2	157	280/239 ¹²
	12/07/99	7.67	-0.69	0.00	949 ¹¹	9.26	ND ⁷	11.2	22.7	235/301 ¹²
	03/13/00	6.73	0.25	0.00	880 ¹⁴	12	1.0	5.6	8.7	46/37 ¹⁰
	06/21/00	7.39	-0.41	0.00	700 ¹¹	4.0	ND	0.99	4.0	120/140 ¹⁰
	09/27/00	7.45	-0.47	0.00	400 ¹¹	1.9	ND	ND	1.5	160/250 ¹⁵
	12/12/00	7.68	-0.70	0.00	770 ¹¹	3.2	ND ⁷	ND ⁷	ND ⁷	27/13 ¹²

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-6										
7.14	06/22/94	7.14	0.00	0.00	ND	ND	ND	ND	ND	--
	09/22/94	7.34	-0.20	0.00	130	1.3	0.8	ND	0.73	--
	12/24/94	6.67	0.47	0.00	6,900	500	59	600	380	--
	03/25/95	6.29	0.85	0.00	47,000	450	1,300	1,700	8,200	--
	06/21/95	7.60	-0.46	0.00	ND	ND	ND	ND	ND	--
	09/19/95	7.70	-0.56	0.00	ND	ND	ND	ND	ND	-- ⁵
	12/19/95	7.75	-0.61	0.00	210	2.5	1.0	2.9	17	--
	03/18/96	6.86	0.28	0.00	ND	ND	ND	ND	ND	--
	06/27/96	6.52	0.62	0.00	ND	ND	ND	ND	ND	510
	09/26/96	7.62	-0.48	0.00	ND	ND	ND	ND	ND	1,400
	12/09/96	5.88	1.26	0.00	1,200	29	48	6.4	140	58
	03/14/97	7.30	-0.16	0.00	ND	ND	ND	ND	ND	1,500
	06/30/97	7.35	-0.21	0.00	ND	ND	ND	ND	ND	990
	09/19/97	7.25	-0.11	0.00	ND	ND	ND	ND	ND	1,400
	12/12/97	7.29	-0.15	0.00	ND	ND	ND	ND	ND	680
	03/03/98	7.00	0.14	0.00	ND	ND	ND	ND	ND	1,600
	06/15/98	7.18	-0.04	0.00	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	1,000
	09/30/98	7.90	-0.76	0.00	ND	ND	ND	ND	ND	1,200
	12/28/98	7.79	-0.65	0.00	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	730
	03/22/99	7.47	-0.33	0.00	ND	ND	ND	ND	ND	1,800
	06/09/99	7.73	-0.59	0.00	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	1,000/850 ¹⁰
	09/08/99	7.95	-0.81	0.00	ND	ND	ND	ND	ND	851/1,040 ¹⁰
	12/07/99	8.10	-0.96	0.00	ND	ND	ND	ND	ND	1,140/1,150 ¹²
	03/13/00	6.95	0.19	0.00	ND	ND	ND	ND	ND	560/670 ¹⁰
	06/21/00	7.84	-0.70	0.00	ND	ND	ND	ND	ND	400/590 ¹⁰
	09/27/00	7.68	-0.54	0.00	ND	ND	ND	ND	ND	2,500/2,800 ¹⁵
	12/12/00	7.74	-0.60	0.00	ND	ND	ND	ND	ND	590/580 ¹²

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank										
TB-LB	03/03/98	--	--	--	ND	ND	ND	ND	ND	ND
	06/15/98	--	--	--	ND	ND	ND	ND	ND	ND
	09/30/98	--	--	--	ND	ND	1.7	ND	2.2	ND
	12/28/98	--	--	--	ND	ND	0.71	ND	0.72	9.5
	03/22/99	--	--	--	ND	ND	ND	ND	ND	ND
	06/09/99	--	--	--	ND	ND	ND	ND	ND	ND
	09/08/99	--	--	--	ND	ND	ND	ND	ND	ND
	12/07/99	--	--	--	ND	ND	0.762	ND	ND	ND
	03/13/00	--	--	--	ND	ND	ND	ND	ND	ND
	06/21/00	--	--	--	ND	ND	ND	ND	ND	ND
	09/27/00	--	--	--	ND	ND	ND	ND	ND	ND
	12/12/00	--	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 3, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing (ft.) = Feet	B = Benzene T = Toluene	(ppb) = Parts per billion ND = Not Detected
DTW = Depth to Water	E = Ethylbenzene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	X = Xylenes	
TPH-G = Total Petroleum Hydrocarbons as Gasoline	MTBE = Methyl tertiary butyl ether	

- * TOC elevations are surveyed relative to City of Oakland Benchmark, at the northeasterly corner of Weller and Cheney Avenue (Elevation = 9.055 feet, city datum; add 3.00' to U.S.G.S. datum). Prior to November 16, 1993, the DTW measurements were taken from the well cover.
- ** Groundwater elevation corrected due to the presence of free product; correction factor = [(TOC-DTW)+(Product Thickness x 0.75)].
- ¹ The positive result for gasoline does not appear to have a typical gasoline pattern.
- ² The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
- ³ Laboratory report indicates the hydrocarbons detected did not appear to be gasoline
- ⁴ Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- ⁵ Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- ⁶ 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.
- ⁷ Detection limit raised. Refer to analytical reports.
- ⁸ Laboratory report indicates unidentified hydrocarbons C6-C12.
- ⁹ Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
- ¹⁰ MTBE by EPA Method 8260.
- ¹¹ Laboratory report indicates gasoline C6-C12.
- ¹² MTBE by EPA Method 8260 analyzed past the recommended holding time.
- ¹³ Laboratory report indicates weathered gasoline C6-C12.
- ¹⁴ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.
- ¹⁵ Laboratory report indicates sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
- ¹⁶ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons >C10.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
U-1	09/27/00 ¹	ND ²	83,000	ND ²	ND ²	ND ²	ND ²	ND ²
	12/12/00	--	15,000 ³	--	--	--	--	--
U-2	09/27/00	--	26,000 ¹	--	--	--	--	--
	12/12/00	--	7,800 ³	--	--	--	--	--
U-5	09/27/00	--	250 ¹	--	--	--	--	--
	12/12/00	--	13 ³	--	--	--	--	--
U-6	09/27/00	--	2,800 ¹	--	--	--	--	--
	12/12/00	--	580 ³	--	--	--	--	--

EXPLANATIONS:

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

- ¹ Laboratory report indicates sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
² Detection limit raised. Refer to analytical reports.
³ This sample was analyzed outside the EPA recommended holding time.

Table 3
Groundwater Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID	DATE	Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	Redox Potential mV ^c
U-1	06/15/98	39	ND	ND	382 ²
	09/30/98	17	ND	ND	366 ²
	12/28/98	4.3	6.3	28	298 ²
	03/22/99	4.9	ND	3.5	320 ³
	06/09/99	1.2	ND	ND	260 ³
	09/08/99	1.80	ND ¹	ND ¹	85 ³
	12/07/99	5.70	ND ¹	17.0	404 ³
	03/13/00	8.0	0.18	ND	² 117/262 ³
	06/21/00	9.3	ND ¹	ND ¹	148 ²
	09/27/00	2.8	ND ¹	18.4	119 ²
	12/12/00	0.49	ND ¹	16.0	131 ²
U-2	03/03/98	25	ND	ND	369 ²
	06/15/98	42	ND	ND	341 ²
	09/30/98	25	ND	ND	354 ²
	12/28/98	28	ND	ND	276 ²
	03/22/99	0.68	ND	2.3	320 ³
	06/09/99	0.50	ND	ND	290 ³
	09/08/99	1.90	ND ¹	ND ¹	235 ³
	12/07/99	0.250	ND ¹	ND ¹	389 ³
	03/13/00	4.3	0.31	ND	² 121/184 ³
	06/21/00	0.26	ND ¹	ND ¹	136 ²
	09/27/00	0.64	ND ¹	10.5	142 ²
12/12/00	2.7	ND ¹	ND ¹	155 ²	
U-3	06/30/97	1.4	21	0.86	190 ³
	09/19/97	0.57	19	ND	75 ³
	12/12/97	1.9	23	0.85	390 ³
	03/03/98	0.013	36	ND	358 ²
	06/15/98	0.16	33	ND	318 ²
	09/30/98	0.040	31	ND	295 ²
	12/28/98	ND	29	ND	281 ²
	03/22/99	0.015	30	0.14	310 ³
	06/09/99	ND	26	1.2	350 ³
	09/08/99	ND	32.9	ND ¹	417 ³
	12/07/99	0.0520	27.9	ND ¹	437 ³
	03/13/00	0.15	33	ND	² 226/307 ³
	06/21/00	0.20	32	ND ¹	225 ²
	09/27/00	ND	34	15.7	211 ²
12/12/00	ND	31	ND ¹	246 ²	

Table 3
Groundwater Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID	DATE	Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	Redox Potential mV ⁴
U-4	06/30/97	0.13	35	0.52	200 ³
	09/19/97	0.35	30	ND	45 ³
	12/12/97	0.68	31	0.73	380 ³
	03/03/98	0.018	3.2	ND	284 ²
	06/15/98	0.14	33	ND	256 ²
	09/30/98	0.049	31	ND	276 ²
	12/28/98	0.36	31	ND	280 ²
	03/22/99	ND	30	0.14	320 ³
	06/09/99	ND	35	0.91	340 ³
	09/08/99	ND	24	ND ¹	391 ³
	12/07/99	ND	27.7	ND ¹	478 ³
	03/13/00	ND	33	ND	² 219/ ³ 244 ³
	06/21/00	0.034	32	ND ¹	248 ²
	09/27/00	ND	28	ND ¹	198 ²
12/12/00	ND	30	ND ¹	210 ²	
U-5	06/30/97	16	ND	ND	160 ³
	09/19/97	0.22	ND	ND	63 ³
	12/12/97	6.7	ND	ND	400 ³
	03/03/98	18	3.1	ND	345 ²
	06/15/98	17	ND	ND	333 ²
	09/30/98	17	ND	ND	318 ²
	12/28/98	17	6.6	ND	305 ²
	03/22/99	0.12	ND	2.4	340 ³
	06/09/99	0.23	ND	ND	320 ³
	09/08/99	2.10	ND ¹	ND ¹	335 ³
	12/07/99	0.310	ND ¹	ND ¹	408 ³
	03/13/00	0.33	0.16	ND	² 111/ ³ 264 ³
	06/21/00	0.15	ND ¹	ND ¹	159 ²
	09/27/00	0.33	ND ¹	ND ¹	136 ²
12/12/00	0.086	ND ¹	ND ¹	122 ²	
U-6	06/30/97	88	0.80	ND	190 ³
	09/19/97	2.9	1.80	ND	ND ³
	12/12/97	51	ND	ND	380 ³
	03/03/98	60	3.5	ND	327 ²
	06/15/98	590	4.8	ND	315 ²
	09/30/98	33	ND	ND	345 ²
	12/28/98	83	7.2	ND	297 ²
	03/22/99	2.1	ND	0.98	330 ³
	06/09/99	0.47	0.20	ND	320 ³
	09/08/99	0.140	5.59	ND ¹	305 ³
	12/07/99	0.260	ND ¹	ND ¹	443 ³

Table 3
Groundwater Analytical Results
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID	DATE	Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	Redox Potential mV ⁴
U-6	03/13/00	0.79	0.26	ND	² 68/ ²²² ³
(cont)	06/21/00	1.9	ND ¹	ND ¹	159 ²
	09/27/00	2.6	ND ¹	ND ¹	170 ²
	12/12/00	ND	2.7	ND ¹	128 ²

EXPLANATIONS:

Groundwater analytical results prior to March 3, 1998, were compiled from reports prepared by MPDS Services, Inc.

(ppm) = Parts per million

ND = Not Detected

mV = millivolts

¹ Detection limit raised. Refer to analytical reports.

² Field measurement.

³ Analyzed by laboratory.

Table 4
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID	DATE	Before Purge (mg/L)
U-1	12/07/99	1.36
	06/21/00	1.53
	09/27/00	1.63
	12/12/00	1.48
U-2	12/07/99	2.28
	06/21/00	1.96
	09/27/00	2.12
	12/12/00	2.35
U-3	06/30/97	4.1
	09/19/97	4.2
	12/12/97	2.97
	03/03/98	2.63
	06/15/98	2.93
	09/30/98	3.11
	12/28/98	3.59
	03/22/99	4.02
	06/09/99	3.70
	09/08/99	3.96
	12/07/99	4.21
	06/21/00	4.27
09/27/00	4.67	
12/12/00	4.79	
U-4	06/30/97	5.4
	09/19/97	5.1
	12/12/97	3.11
	03/03/98	2.94
	06/15/98	3.08
	09/30/98	4.05
	12/28/98	4.57
	03/22/99	4.26
	06/09/99	3.61
	09/08/99	3.75
	12/07/99	4.03
	06/21/00	4.89
09/27/00	5.09	
12/12/00	4.86	

Table 4
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #5325
 3220 Lakeshore Avenue
 Oakland, California

WELL ID	DATE	Before Purge (mg/L)
U-5	06/30/97	3.4
	09/19/97	0.6
	12/12/97	1.75
	03/03/98	2.36
	06/15/98	2.55
	09/30/98	1.93
	12/28/98	1.64
	03/22/99	1.99
	06/09/99	2.10
	09/08/99	2.21
	12/07/99	2.66
	06/21/00	3.42
	09/27/00	3.85
12/12/00	3.53	
U-6	06/30/97	0.30
	09/19/97	0.60
	12/12/97	2.70
	03/03/98	2.18
	06/15/98	2.48
	09/30/98	3.06
	12/28/98	3.42
	03/22/99	3.88
	06/09/99	3.29
	09/08/99	3.12
	12/07/99	3.44
	06/21/00	3.27
	09/27/00	3.49
12/12/00	3.06	

EXPLANATIONS:

Dissolved oxygen concentrations prior to March 3, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = milligrams per liter

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 #: 5325 Job#: 180061
 Address: 3220 Lakeshore Ave. Date: 12-12-00
 City: Oakland Sampler: Joe

Well ID: U-1 Well Condition: OK
 Well Diameter: 3 in Hydrocarbon Amount Bailed
 Thickness: 0 in. (product/water): 0 (gal)
 Total Depth: 19.70 ft
 Depth to Water: 9.37 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

10.33 x VF 0.38 = 3.93 x 3 (case volume) = Estimated Purge Volume: 12 (gal)

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

Starting Time: 10:30 Weather Conditions: rainy
 Sampling Time: 11:02 AM Water Color: clear Odor: yes
 Purging Flow Rate: 1 gpm Sediment Description: none
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity (umhos/cm) ¹⁰⁰	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:40</u>	<u>4</u>	<u>6.67</u>	<u>0.95</u>	<u>69.5</u>	<u>1.48</u>	<u>131</u>	
<u>10:42</u>	<u>8</u>	<u>6.72</u>	<u>0.96</u>	<u>69.2</u>			
<u>10:44</u>	<u>12</u>	<u>6.71</u>	<u>0.97</u>	<u>69.8</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-1</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>1 plastic</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Iron</u>
					<u>Nitrate</u>
					<u>phosphate</u>

COMMENTS: No FP found in skimmer

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5325
Address: 3220 Lakeshore Ave.
City: Oakland

Job#: 180061
Date: 12-12-00
Sampler: Joe

Well ID: U-2 Well Condition: O.K.
Well Diameter: 3 in Hydrocarbon Thickness: 0 in Amount Bailed (product/water): 0 (gal.)
Total Depth: 19.62 ft
Depth to Water: 7.51 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

12.11 x VF 0.38 = 4.60 x 3 (case volume) = Estimated Purge Volume: 14 (gal.)

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

Starting Time: 9:48 Weather Conditions: rainy
Sampling Time: 10:15 AM Water Color: clear Odor: yes
Purging Flow Rate: 1 gpm Sediment Description: None
Did well de-water? _____ If yes: Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{C}$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:00</u>	<u>5</u>	<u>7.10</u>	<u>2.38</u>	<u>70.6</u>	<u>2.35</u>	<u>155</u>	
<u>10:03</u>	<u>9</u>	<u>7.19</u>	<u>2.42</u>	<u>70.5</u>			
<u>10:05</u>	<u>14</u>	<u>7.21</u>	<u>2.45</u>	<u>69.8</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-2</u>	<u>3YOA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>1 plastic</u>	<u> </u>	<u> </u>	<u> </u>	<u>Iron</u>
					<u>Nitrate</u>
					<u>phosphate</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5325
Address: 3220 Lakeshore Ave.
City: Oakland

Job #: 180061
Date: 12-12-00
Sampler: Joe

Well ID U-3

Well Condition: OK

Well Diameter 3 in

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

Total Depth 19.40

Depth to Water 10.94

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

8.46 x VF 0.38 = 3.21 x 3 (case volume) = Estimated Purge Volume: 10 (gal)

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

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

Starting Time: 8:00

Weather Conditions: rainy

Sampling Time: 8:22 AM

Water Color: clear Odor: none

Purging Flow Rate: 1 gpm

Sediment Description: none

Did well de-water? _____

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

Time	Volume (gal)	pH	Conductivity $\mu\text{hos/cm } ^\circ\text{C}$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:08</u>	<u>3.5</u>	<u>8.02</u>	<u>12.16</u>	<u>72.1</u>	<u>4.79</u>	<u>246</u>	
<u>8:10</u>	<u>7</u>	<u>7.41</u>	<u>12.20</u>	<u>71.9</u>			
<u>8:12</u>	<u>10</u>	<u>7.45</u>	<u>12.18</u>	<u>71.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(?) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-3</u>	<u>3YOA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>1 plastic</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Iron</u>
					<u>Nitrate</u>
					<u>phosphate</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5325
Address: 3220 Lakeshore Ave.
City: Oakland

Job #: 180061
Date: 12-12-00
Sampler: Joe

Well ID: U-4 Well Condition: O.K.

Well Diameter: 4 in Hydrocarbon Thickness: 0 in Amount Bailed (product/water): 0 (gal)

Total Depth: 20.15 +
Depth to Water: 9.50 +

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

10.65 x VF 0.66 = 7.03 x 3 (case volume) = Estimated Purge Volume: 21 (gal)

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

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

Starting Time: 6:15 Weather Conditions: rainy
Sampling Time: 6:45 AM Water Color: clear Odor: none
Purging Flow Rate: 1.5 gpm Sediment Description: none
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)
<u>6:22</u>	<u>7</u>	<u>7.60</u>	<u>12.65</u>	<u>72.1</u>	<u>4.86</u>	<u>210</u>	
<u>6:26</u>	<u>14</u>	<u>7.40</u>	<u>12.60</u>	<u>71.9</u>			
<u>6:30</u>	<u>21</u>	<u>7.37</u>	<u>12.58</u>	<u>71.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(1) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-4</u>	<u>30A</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBC</u>
	<u>1 plastic</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Iron</u>
					<u>Nitrate</u>
					<u>phosphate</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 5325
Address: 3220 Lakeshore Ave.
City: Oakland

Job #: 180061
Date: 12-12-00
Sampler: Joe

Well ID: U-5
Well Diameter: 4 in.
Total Depth: 20.05 ft.
Depth to Water: 7.68 ft.

Well Condition: O.K.
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 gal.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

12.37 x VF 0.66 = 8.16 x 3 (case volume) = Estimated Purge Volume: 25 gal.

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

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

Starting Time: 9:08
Sampling Time: 9:35 A.M.
Purging Flow Rate: 2 gpm.
Did well de-water? _____

Weather Conditions: rainy
Water Color: clear Odor: yes
Sediment Description: none
If yes: Time: _____ Volume: _____ gal.

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{C}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:20	8	7.30	3.41	69.8	3.53	122	
9:24	16	7.16	3.77	69.7			
9:28	25	7.12	3.75	69.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-5	3 Vol	Y	HCL	Sequoia	TPMG, BTEX, MTBE
	1 plastic	"	-	"	(Iron
					Nitrate
					phosphate

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 5325
Address: 3220 Lakeshore Ave.
City: Oakland

Job#: 180061
Date: 12-12-00
Sampler: Joe

Well ID: U-6
Well Diameter: 2 in
Total Depth: 23.80 +
Depth to Water: 7.74 +

Well Condition: O.K.

Hydrocarbon Thickness:	<u>0</u> in	Amount Bailed (product/water):	<u>0</u> (gal)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

16.06 x VF 0.17 = 2.73 x 3 (case volume) = Estimated Purge Volume: 8.5 (gal)

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

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

Starting Time: 8:35
Sampling Time: 8:55 A.M.
Purging Flow Rate: 1 gpm
Did well de-water? _____

Weather Conditions: rainy
Water Color: clear Odor: mild
Sediment Description: none
If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{C}$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:42</u>	<u>3.5</u>	<u>7.21</u>	<u>4.20</u>	<u>71.2</u>	<u>3.06</u>	<u>128</u>	
<u>8:43</u>	<u>5.5</u>	<u>7.17</u>	<u>3.95</u>	<u>71.1</u>			
<u>8:45</u>	<u>8.5</u>	<u>7.17</u>	<u>4.07</u>	<u>72.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-6</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>1 plastic</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Iron</u>
					<u>Nitrate</u>
					<u>phosphate</u>

COMMENTS: _____

Chain-of-Custody-Record



TOSCO

Tosco Marketing Company
2000 Crow Canyon Pl., Ste. 400
San Ramon, California 94583

Tosco

Facility Number (Unocal) # 5325
 Facility Address 3226 Lakeshore Ave. Oakland, CA
 Consultant Project Number 180061.85
 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. Dave DeWitt
 (Phone) (925) 277-5325

Laboratory Name Sequoia Analytical
 Laboratory Release Number WO12314
 Samples Collected by (Name) JOE ASEMIAN
 Collection Date 12-12-00
 Signature [Signature]

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										DO NOT BILL TB-LB ANALYSIS								
								TPH Gas+STK w/MTBE (8016)	TPH Diesel (8015)	Oil and Greases (8620)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	Ferrous Iron	Nitrate, Nitrite, Phosphate		Remarks							
TB-LB	01A	20A	W	G	-	HCL	Y	<input checked="" type="checkbox"/>																		
U-1	02A-D	30A 1 pl.	/	/	11:00	/	/	<input checked="" type="checkbox"/>																		Please filter from plain plastic and preserve for Ferrous Iron analysis.
U-2	03	"	/	/	10:15	/	/	<input checked="" type="checkbox"/>																		
U-3	04	"	/	/	8:22	/	/	<input checked="" type="checkbox"/>																		
U-4	05	"	/	/	6:45	/	/	<input checked="" type="checkbox"/>																		
U-5	06	"	/	/	9:35	/	/	<input checked="" type="checkbox"/>																		
U-6	07	"	/	/	8:55	/	/	<input checked="" type="checkbox"/>																		
WC																										

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>G-R Inc.</u>	Date/Time <u>12-12-00</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time <u>12/12/00</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <input checked="" type="radio"/> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization	Date/Time <u>12/12/00</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>ABC</u>	Date/Time <u>12-12</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>ABC</u>	Date/Time <u>12/12</u>	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>12/12 1800</u>	



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequiolabs.com

9 January, 2001

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

RE: Tosco
Sequoia Report W012314

Enclosed are the results of analyses for samples received by the laboratory on 12-Dec-00 12:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271





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

Project: Tosco
Project Number: Tosco # 5325
Project Manager: Deanna L. Harding

Reported:
09-Jan-01 07:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W012314-01	Water	12-Dec-00 00:00	12-Dec-00 12:30
U-1	W012314-02	Water	12-Dec-00 11:00	12-Dec-00 12:30
U-2	W012314-03	Water	12-Dec-00 10:15	12-Dec-00 12:30
U-3	W012314-04	Water	12-Dec-00 08:22	12-Dec-00 12:30
U-4	W012314-05	Water	12-Dec-00 06:45	12-Dec-00 12:30
U-5	W012314-06	Water	12-Dec-00 09:35	12-Dec-00 12:30
U-6	W012314-07	Water	12-Dec-00 08:55	12-Dec-00 12:30

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 # 5325
Project Manager: Deanna L. Harding

Reported:
09-Jan-01 07:29

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 (W012314-01) Water Sampled: 12-Dec-00 00:00 Received: 12-Dec-00 12:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0L24002	24-Dec-00	24-Dec-00	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	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		117 %	70-130		"	"	"	"	P-07
U-1 (W012314-02) Water Sampled: 12-Dec-00 11:00 Received: 12-Dec-00 12:30									
Purgeable Hydrocarbons	50000	10000	ug/l	200	0L24002	24-Dec-00	24-Dec-00	EPA 8015M/8020	
Benzene	ND	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
Ethylbenzene	250	100	"	"	"	"	"	"	
Xylenes (total)	1900	100	"	"	"	"	"	"	
Methyl tert-butyl ether	12000	500	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		107 %	70-130		"	"	"	"	P-01
U-2 (W012314-03) Water Sampled: 12-Dec-00 10:15 Received: 12-Dec-00 12:30									
Purgeable Hydrocarbons	3600	1000	ug/l	20	0L24002	24-Dec-00	24-Dec-00	EPA 8015M/8020	
Benzene	17	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	87	10	"	"	"	"	"	"	
Methyl tert-butyl ether	8000	50	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		104 %	70-130		"	"	"	"	





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

Project: Tosco
Project Number: Tosco # 5325
Project Manager: Deanna L. Harding

Reported:
09-Jan-01 07:29

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
U-3 (W012314-04) Water Sampled: 12-Dec-00 08:22 Received: 12-Dec-00 12:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0L24002	24-Dec-00	24-Dec-00	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	"	"	"	"	"	"	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.3 %	70-130		"	"	"	"	
U-4 (W012314-05) Water Sampled: 12-Dec-00 06:45 Received: 12-Dec-00 12:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0L24002	24-Dec-00	24-Dec-00	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>		107 %	70-130		"	"	"	"	P-01
U-5 (W012314-06) Water Sampled: 12-Dec-00 09:35 Received: 12-Dec-00 12:30									
Purgeable Hydrocarbons	770	250	ug/l	5	0L24002	24-Dec-00	24-Dec-00	EPA 8015M/8020	
Benzene	3.2	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	27	13	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.7 %	70-130		"	"	"	"	





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

Project: Tosco
Project Number: Tosco # 5325
Project Manager: Deanna L. Harding

Reported:
09-Jan-01 07:29

**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
U-6 (W012314-07) Water Sampled: 12-Dec-00 08:55 Received: 12-Dec-00 12:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0L24002	24-Dec-00	24-Dec-00	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.3 %	70-130		"	"	"	"	
U-6 (W012314-07RE1) Water Sampled: 12-Dec-00 08:55 Received: 12-Dec-00 12:30									
Methyl tert-butyl ether	590	50	ug/l	20	0L24002	24-Dec-00	26-Jan-01	EPA 8015M/8020	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.0 %	70-130		"	"	"	"	





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

Project: Tosco
Project Number: Tosco # 5325
Project Manager: Deanna L. Harding

Reported:
09-Jan-01 07:29

MTBE Confirmation by EPA Method 8260B Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W012314-02) Water Sampled: 12-Dec-00 11:00 Received: 12-Dec-00 12:30									
Methyl tert-butyl ether	15000	200	ug/l	100	1A08022	04-Jan-01	04-Jan-01	EPA 8260B	O-04
Surrogate: Dibromofluoromethane		100 %	50-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	50-150		"	"	"	"	
U-2 (W012314-03) Water Sampled: 12-Dec-00 10:15 Received: 12-Dec-00 12:30									
Methyl tert-butyl ether	7800	100	ug/l	50	1A08022	04-Jan-01	05-Jan-01	EPA 8260B	O-04
Surrogate: Dibromofluoromethane		94.0 %	50-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
U-5 (W012314-06) Water Sampled: 12-Dec-00 09:35 Received: 12-Dec-00 12:30									
Methyl tert-butyl ether	13	2.0	ug/l	1	1A08022	04-Jan-01	05-Jan-01	EPA 8260B	O-04
Surrogate: Dibromofluoromethane		96.0 %	50-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	50-150		"	"	"	"	
U-6 (W012314-07) Water Sampled: 12-Dec-00 08:55 Received: 12-Dec-00 12:30									
Methyl tert-butyl ether	580	10	ug/l	5	1A08022	04-Jan-01	05-Jan-01	EPA 8260B	O-04
Surrogate: Dibromofluoromethane		100 %	50-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	50-150		"	"	"	"	





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

Project: Tosco
Project Number: Tosco # 5325
Project Manager: Deanna L. Harding

Reported:
09-Jan-01 07:29

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W012314-02) Water									
Sampled: 12-Dec-00 11:00 Received: 12-Dec-00 12:30									
Ferrous Iron	0.49	0.010	mg/l	1	0L21022	21-Dec-00	04-Jan-01	EPA 6010A	
U-2 (W012314-03) Water									
Sampled: 12-Dec-00 10:15 Received: 12-Dec-00 12:30									
Ferrous Iron	2.7	0.010	mg/l	1	0L21022	21-Dec-00	04-Jan-01	EPA 6010A	
U-3 (W012314-04) Water									
Sampled: 12-Dec-00 08:22 Received: 12-Dec-00 12:30									
Ferrous Iron	ND	0.010	mg/l	1	0L21022	21-Dec-00	04-Jan-01	EPA 6010A	
U-4 (W012314-05) Water									
Sampled: 12-Dec-00 06:45 Received: 12-Dec-00 12:30									
Ferrous Iron	ND	0.010	mg/l	1	0L21022	21-Dec-00	04-Jan-01	EPA 6010A	
U-5 (W012314-06) Water									
Sampled: 12-Dec-00 09:35 Received: 12-Dec-00 12:30									
Ferrous Iron	0.086	0.010	mg/l	1	0L21022	21-Dec-00	04-Jan-01	EPA 6010A	
U-6 (W012314-07) Water									
Sampled: 12-Dec-00 08:55 Received: 12-Dec-00 12:30									
Ferrous Iron	ND	0.010	mg/l	1	0L21022	21-Dec-00	04-Jan-01	EPA 6010A	





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Project: Tosco
Project Number: Tosco # 5325
Project Manager: Deanna L. Harding

Reported:
09-Jan-01 07:29

Anions by EPA Method 300.0 Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W012314-02) Water Sampled: 12-Dec-00 11:00 Received: 12-Dec-00 12:30									
Nitrate as NO3	ND	1.0	mg/l	10	0L14005	13-Dec-00	13-Dec-00	EPA 300.0	
Phosphate	16.0	5.00	"	"	"	"	13-Dec-00	"	
U-2 (W012314-03) Water Sampled: 12-Dec-00 10:15 Received: 12-Dec-00 12:30									
Nitrate as NO3	ND	1.0	mg/l	10	0L14005	13-Dec-00	13-Dec-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	13-Dec-00	"	
U-3 (W012314-04) Water Sampled: 12-Dec-00 08:22 Received: 12-Dec-00 12:30									
Nitrate as NO3	31	1.0	mg/l	10	0L14005	13-Dec-00	13-Dec-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	13-Dec-00	"	
U-4 (W012314-05) Water Sampled: 12-Dec-00 06:45 Received: 12-Dec-00 12:30									
Nitrate as NO3	30	1.0	mg/l	10	0L14005	13-Dec-00	13-Dec-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	13-Dec-00	"	
U-5 (W012314-06) Water Sampled: 12-Dec-00 09:35 Received: 12-Dec-00 12:30									
Nitrate as NO3	ND	1.0	mg/l	10	0L14005	13-Dec-00	13-Dec-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	13-Dec-00	"	
U-6 (W012314-07) Water Sampled: 12-Dec-00 08:55 Received: 12-Dec-00 12:30									
Nitrate as NO3	2.7	1.0	mg/l	10	0L14005	13-Dec-00	13-Dec-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	13-Dec-00	"	





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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 0L24002 - EPA 5030B [P/T]										
Blank (0L24002-BLK1) Prepared & Analyzed: 24-Dec-00										
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>	35.1		"	30.0		117	70-130			
LCS (0L24002-BS1) Prepared & Analyzed: 24-Dec-00										
Benzene	17.6	0.50	ug/l	20.0		88.0	70-130			
Toluene	17.6	0.50	"	20.0		88.0	70-130			
Ethylbenzene	17.4	0.50	"	20.0		87.0	70-130			
Xylenes (total)	51.7	0.50	"	60.0		86.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.1		"	30.0		97.0	70-130			
Matrix Spike (0L24002-MS1) Source: W012314-04 Prepared & Analyzed: 24-Dec-00										
Benzene	17.2	0.50	ug/l	20.0	ND	86.0	70-130			
Toluene	17.3	0.50	"	20.0	ND	86.5	70-130			
Ethylbenzene	17.1	0.50	"	20.0	ND	85.5	70-130			
Xylenes (total)	51.1	0.50	"	60.0	ND	85.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.1		"	30.0		97.0	70-130			
Matrix Spike Dup (0L24002-MSD1) Source: W012314-04 Prepared & Analyzed: 24-Dec-00										
Benzene	18.3	0.50	ug/l	20.0	ND	91.5	70-130	6.20	20	
Toluene	18.4	0.50	"	20.0	ND	92.0	70-130	6.16	20	
Ethylbenzene	18.2	0.50	"	20.0	ND	91.0	70-130	6.23	20	
Xylenes (total)	54.1	0.50	"	60.0	ND	90.2	70-130	5.70	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.3		"	30.0		101	70-130			





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**MTBE Confirmation by EPA Method 8260B - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A08022 - EPA 5030B [P/T]										
Blank (1A08022-BLK1)										
Prepared & Analyzed: 04-Jan-01										
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.0		"	50.0		94.0	50-150			
Blank (1A08022-BLK2)										
Prepared & Analyzed: 08-Jan-01										
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	46.0		"	50.0		92.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	50-150			
LCS (1A08022-BS1)										
Prepared & Analyzed: 04-Jan-01										
Methyl tert-butyl ether	52.5	2.0	ug/l	50.0		105	70-130			
Surrogate: Dibromofluoromethane	47.0		"	50.0		94.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	46.0		"	50.0		92.0	50-150			
LCS Dup (1A08022-BSD1)										
Prepared & Analyzed: 08-Jan-01										
Methyl tert-butyl ether	56.6	2.0	ug/l	50.0		113	70-130	7.52	25	
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	49.0		"	50.0		98.0	50-150			





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Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L21022 - 200.7										
Blank (0L21022-BLK1)										
Prepared: 21-Dec-00 Analyzed: 04-Jan-01										
Ferrous Iron	ND	0.010	mg/l							
LCS (0L21022-BS1)										
Prepared: 21-Dec-00 Analyzed: 04-Jan-01										
Ferrous Iron	0.979	0.010	mg/l	1.00		97.9	80-120			
LCS Dup (0L21022-BSD1)										
Prepared: 21-Dec-00 Analyzed: 04-Jan-01										
Ferrous Iron	0.984	0.010	mg/l	1.00		98.4	80-120	0.509	20	





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**Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L14005 - General Preparation										
Blank (0L14005-BLK1)										
Prepared & Analyzed: 13-Dec-00										
Nitrate as NO3	ND	0.10	mg/l							
Phosphate	ND	0.500	"							
LCS (0L14005-BS1)										
Prepared & Analyzed: 13-Dec-00										
Nitrate as NO3	10.2	0.10	mg/l	10.0		102	80-120			
Phosphate	18.6	0.500	"	20.0		93.0	80-120			
Matrix Spike (0L14005-MS1)										
Source: W012298-01 Prepared & Analyzed: 13-Dec-00										
Nitrate as NO3	14.2	0.40	mg/l	20.0	ND	71.0	75-125			Q-02
Phosphate	72.6	2.00	"	40.0	34.6	95.0	75-125			
Matrix Spike Dup (0L14005-MSD1)										
Source: W012298-01 Prepared & Analyzed: 13-Dec-00										
Nitrate as NO3	12.4	0.40	mg/l	20.0	ND	62.0	75-125	13.5	20	Q-02
Phosphate	72.8	2.00	"	40.0	34.6	95.5	75-125	0.275	20	





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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.
- O-04 This sample was analyzed outside the EPA recommended holding time.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-07 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons >C10
- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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

