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Alameda County
Environmental Health

GETTLER-RYAN INC.

November 27, 2000
G-R Job #180061

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

RE: Third 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 September 27, 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

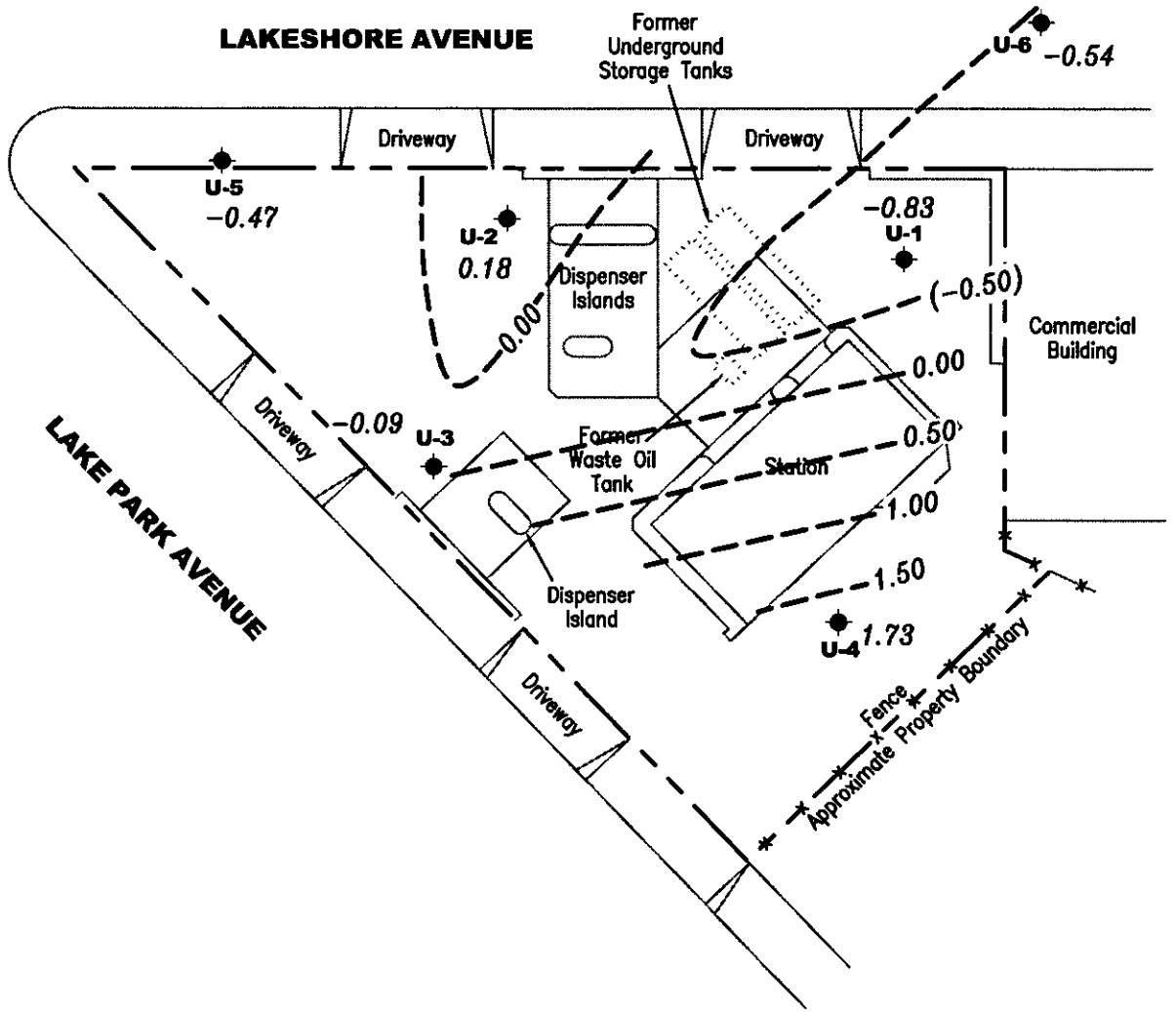
Stephen J. Carter
Senior Geologist, R.G. No.5577

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

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

FILE 253325 SS X BP
QM X TRANSMITTAL
2 3 4 5 6

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 direction varies at gradient of 0.02 to 0.04 Ft./Ft.

N

0 40

Scale in Feet

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

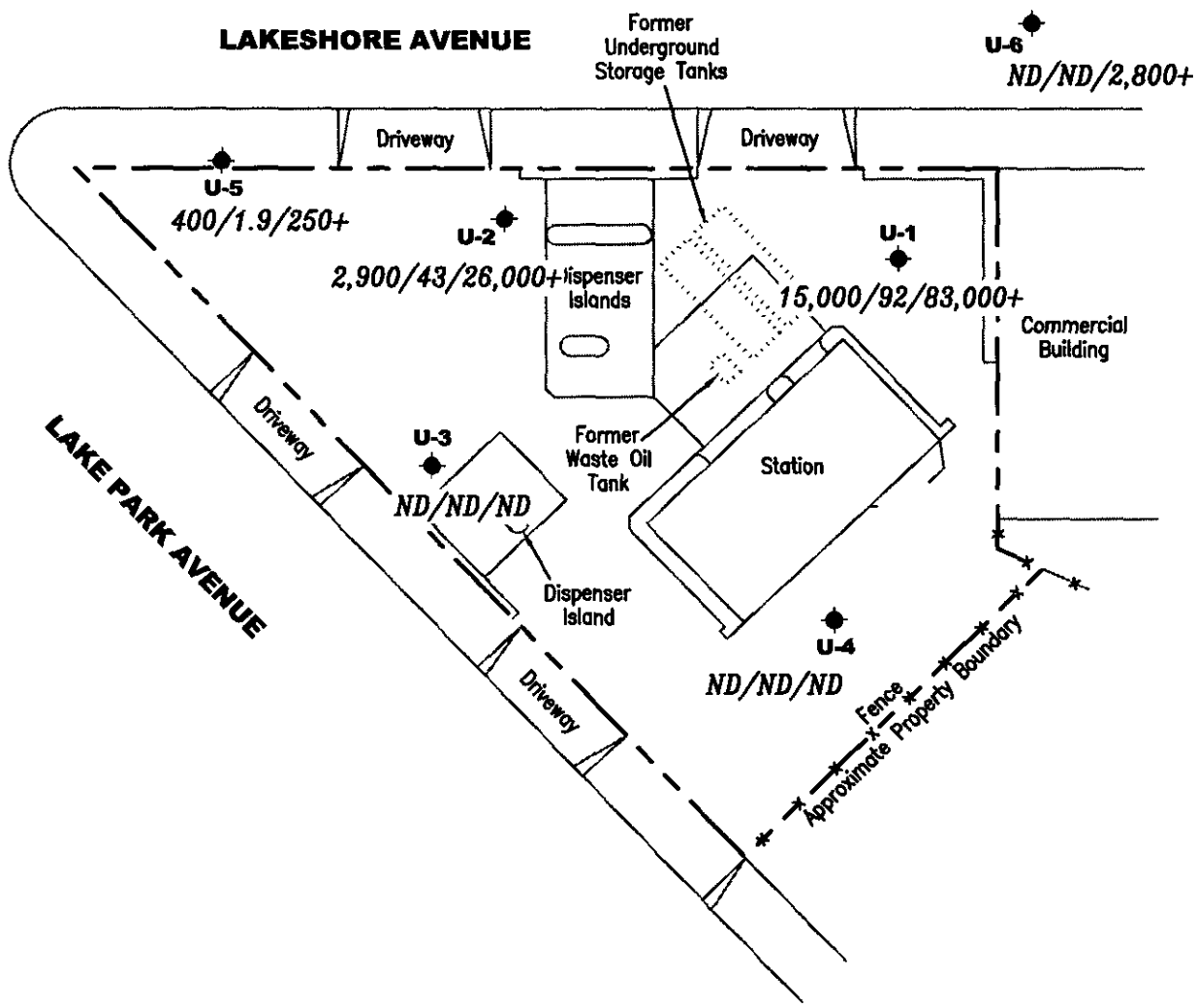
Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMERIC MAP
Tosco (Unocal) Services Station #5325
3220 Lakeshore Avenue
Oakland, California

FIGURE 1

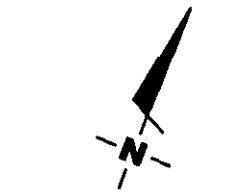
PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180061		September 27, 2000	

FILE NAME: P:\Enviro\Tosco\5325\Q00-5325.DWG | Layout Tab: Pot3



EXPLANATION

✦	Groundwater monitoring well
A/B/C	TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/ Benzene/MTBE concentrations *in ppb*
ND	Not Detected
+	MTBE by EPA Method 8260



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

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Dublin, CA 94568 (925) 551-7555

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

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180061		September 27, 2000	

FILE NAME: P:\Enviro\Tosco\5325\000-5325.DWG | Layout Tab: Con3

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]**
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

As of 09/27/00

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]**
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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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-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**

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**

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-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]**

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]**

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**

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

* 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.

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]
U-2	09/27/00	--	26,000[1]	--	--	--	--	--
U-5	09/27/00	--	250[1]	--	--	--	--	--
U-6	09/27/00	--	2,800[1]	--	--	--	--	--

EXPLANATIONS:

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

[1] Laboratory report indicates sample was originally analyzed withing holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

[2] Detection limit raised. Refer to analytical reports.

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[2]
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]**
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]**
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]**
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]

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[2]
U-4 (cont)	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]219/244[3]
	06/21/00	0.034	32	ND[1]	248[2]
	09/27/00	**ND**	**28**	**ND[1]**	**198[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]111/264[3]
	06/21/00	0.15	ND[1]	ND[1]	159[2]
	09/27/00	**0.33**	**ND[1]**	**ND[1]**	**136[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]
	03/13/00	0.79	0.26	ND	[2]68/222[3]
	06/21/00	1.9	ND[1]	ND[1]	159[2]
	09/27/00	**2.6**	**ND[1]**	**ND[1]**	**170[2]**

Table 3

Groundwater Analytical Results

Tosco (Unocal) Service Station #5325

3220 Lakeshore Avenue

Oakland, California

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**
U-2	12/07/99	2.28
	06/21/00	1.96
	09/27/00	**2.12**
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**
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**
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

Table 4

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #5325

3220 Lakeshore Avenue

Oakland, California

WELL ID	DATE	Before Purge (mg/L)
U-5 (cont)	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**
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**

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: 9-27-00
City: Oakland Sampler: Joe

Well ID U-1 Well Condition: O.K
Well Diameter 3 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Total Depth 19.70 ft.
Depth to Water 9.29 ft.

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

10.41 x VF 0.38 = 3.96 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: 11:46 Weather Conditions: Hot
Sampling Time: 12:20 p.m Water Color: clear Odor: yes
Purging Flow Rate: 1 gpm Sediment Description: None
Did well de-water? Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:00	4	6.72	1.44	72.2	1.63	119	
12:03	8	6.70	1.48	73.0			
12:05	12	6.74	1.51	73.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-1	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Iron
					Nitrate
					Phosphate 5 days DWI, 1,2 DCA-EDB

COMMENTS: No FP found in skimmer.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5325 Job#: 180061

Address: 3220 Lakeshore Ave. Date: 9-27-00

City: Oakland Sampler: Joe

Well ID U-2 Well Condition: O.K

Well Diameter 3 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 6 (gal.)

Total Depth 19.62 ft.

Depth to Water 7.44 ft.

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

12.18 X VF 0.38 = 4.63 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: 11:00 Weather Conditions: Hot

Sampling Time: 11:30 A.M 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 (1000 µmhos/cm)	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:10	4	7.05	1.95	73.3	2.12	142	
11:12	9	7.01	1.92	73.1			
11:14	14	6.96	1.91	73.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-2	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Iron
					Nitrate
					Phosphate

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5325 Job#: 180061
Address: 3220 Lakeshore Ave. Date: 9-27-00
City: Oakland Sampler: Joe

Well ID U-3 Well Condition: O.K
Well Diameter 3 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 6 (gal.)
Total Depth 19.40 ft.
Depth to Water 11.07 ft.

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

8.33 X VF 0.38 = 3.17 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: 8:45 Weather Conditions: Hot
Sampling Time: 9:15 A.m 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 (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:00	3.5	7.91	10.16	74.0	4.67	211	
9:02	6	7.80	10.11	73.9			
9:04	10	7.67	10.12	73.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-3	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Iron
					Nitrate
					Phosphate

COMMENTS:

MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5325 Job#: 180061
Address: 3220 Lakeshore Ave. Date: 9-27-00
City: Oakland 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 ft
Depth to Water 9.42 ft

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

10.73 x VF 0.66 = 7.08 X 3 (case volume) = Estimated Purge Volume: 22 (gal.)

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

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

Starting Time: 7:54 Weather Conditions: Hot
Sampling Time: 8:35 A.M Water Color: clear Odor: none
Purging Flow Rate: 2 gpm Sediment Description: none
Did well de-water? If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:12	7	7.57	12.14	73.1	5.09	198	
8:15	14	7.41	12.18	73.2			
8:17	22	7.43	12.20	73.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-4	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Iron
					Nitrate
					Phosphate

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5325 Job#: 180061
Address: 3220 Lakeshore Ave. Date: 9-27-00
City: Oakland Sampler: Joe

Well ID U-5 Well Condition: O.K
Well Diameter 4 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 6 (gal.)
Total Depth 20.05 ft.
Depth to Water 7.45 ft.

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

12.6 X VF 0.66 = 8.32 X 3 (case volume) = Estimated Purge Volume: 25 (gal.)

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

Starting Time: 10:15 Weather Conditions: Hot
Sampling Time: 10:45 A.M. Water Color: Clear Odor: ~~none~~ yes
Purging Flow Rate: 2 gpm. Sediment Description: None
Did well de-water? If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X 10^N	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:25	8	7.25	3.68	73.9	3.85	136	
10:28	17	7.30	4.15	74.0			
10:31	25	7.36	4.18	74.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-5	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Iron
					Nitrate
					Phosphate

COMMENTS:

W[redacted] MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5325 Job#: 180061
Address: 3220 Lakeshore Ave. Date: 9-27-00
City: Oakland Sampler: Joe

Well ID U-6 Well Condition: O.K
Well Diameter 2 in Hydrocarbon Thickness: 0 in Amount Bailed (product/water): 0 (gal.)
Total Depth 23.80 ft
Depth to Water 7.68 ft

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

16.12 X VF 0.17 = 2.74 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: 9:30 Weather Conditions: Hot
Sampling Time: 10:02 A.M Water Color: clear Odor: none
Purging Flow Rate: 1 gpm Sediment Description: none
Did well de-water? Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:40	3	7.47	5.36	75.2	3.49	170	
9:42	5	7.52	5.31	74.1			
9:43	8.5	7.44	5.28	73.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-6	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Iron
					Nitrate
					Phosphate

COMMENTS:

Chain-of-Custody-Record

TOSCO

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

Facility Number: Unocal #5325
Facility Address: 3220 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:
Samples Collected by (Name): JOE ATIEMIAN
Collection Date: 9-27-00 W009709
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8020)	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)	Ferrous Iron	Nitrate, phosphate				DO NOT BILL TB-LB ANALYSIS. Confirm any MTBE hit by 8260. Remarks
TB-LB		1 VOA	W	G	-	HCl	Y	✓													Please filter
U-1		3 VOA 1 pt.	"	"	12:20	"	"	✓								✓	✓				from plain
U-2		"	"	"	11:30	"	"	✓								✓	✓				plastic and
U-3		"	"	"	9:15	"	"	✓								✓	✓				preserve for
U-4		"	"	"	8:55	"	"	✓								✓	✓				Ferrous Iron
U-5		"	"	"	10:45	"	"	✓								✓	✓				analysis
U-6		"	"	"	10:02	"	"	✓								✓	✓				
																					* Ammended COC - RWI
																					(5) oxys w/ 1,2 DCA & EDB on highest hit of mtbe. gw

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	9-27-00			9/27/00 1600
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

404 N. Wiget Lane
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9 November, 2000

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

RE: Unocal
Sequoia Report: W009709

Enclosed are the results of analyses for samples received by the laboratory on 27-Sep-00 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W009709-01	Water	27-Sep-00 00:00	27-Sep-00 16:00
U-1	W009709-02	Water	27-Sep-00 12:20	27-Sep-00 16:00
U-2	W009709-03	Water	27-Sep-00 11:30	27-Sep-00 16:00
U-3	W009709-04	Water	27-Sep-00 09:15	27-Sep-00 16:00
U-4	W009709-05	Water	27-Sep-00 08:35	27-Sep-00 16:00
U-5	W009709-06	Water	27-Sep-00 10:45	27-Sep-00 16:00
U-6	W009709-07	Water	27-Sep-00 10:02	27-Sep-00 16:00

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

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

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 (W009709-01) Water Sampled: 27-Sep-00 00:00 Received: 27-Sep-00 16:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	0J06001	06-Oct-00	06-Oct-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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*116 %*		*70-130*	"	"	"	"	
U-1 (W009709-02) Water Sampled: 27-Sep-00 12:20 Received: 27-Sep-00 16:00									**P-01**
Purgeable Hydrocarbons	**15000**	5000	ug/l	100	0J06001	06-Oct-00	06-Oct-00	EPA 8015M/8020	
Benzene	**92**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	**540**	50	"	"	"	"	"	"	
Xylenes (total)	**2800**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.7 %*		*70-130*	"	"	"	"	
U-1 (W009709-02RE1) Water Sampled: 27-Sep-00 12:20 Received: 27-Sep-00 16:00									**P-01**
Methyl tert-butyl ether	**74000**	5000	ug/l	2000	0J06001	06-Oct-00	06-Oct-00	EPA 8015M/8020	CC-3
Surrogate: a,a,a-Trifluorotoluene		*100 %*		*70-130*	"	"	"	"	
U-2 (W009709-03) Water Sampled: 27-Sep-00 11:30 Received: 27-Sep-00 16:00									**P-01**
Purgeable Hydrocarbons	**2900**	1000	ug/l	20	0J06001	06-Oct-00	06-Oct-00	EPA 8015M/8020	
Benzene	**43**	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	**39**	10	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.3 %*		*70-130*	"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

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-2 (W009709-03RE1) Water Sampled: 27-Sep-00 11:30 Received: 27-Sep-00 16:00									**P-01**
Methyl tert-butyl ether	**20000**	500	ug/l	200	0J06001	06-Oct-00	06-Oct-00	EPA 8015M/8020	CC-3
Surrogate: a,a,a-Trifluorotoluene		*99.7 %*		*70-130*	"	"	"	"	
U-3 (W009709-04) Water Sampled: 27-Sep-00 09:15 Received: 27-Sep-00 16:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	0J06001	06-Oct-00	06-Oct-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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*70-130*	"	"	"	"	
U-4 (W009709-05) Water Sampled: 27-Sep-00 08:35 Received: 27-Sep-00 16:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	0J06001	06-Oct-00	06-Oct-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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*		*70-130*	"	"	"	"	
U-5 (W009709-06) Water Sampled: 27-Sep-00 10:45 Received: 27-Sep-00 16:00									**P-01**
Purgeable Hydrocarbons	**400**	50	ug/l	1	0J09024	07-Oct-00	07-Oct-00	EPA 8015M/8020	
Benzene	**1.9**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.5**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**160**	2.5	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*92.3 %*		*70-130*	"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

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 (W009709-07) Water Sampled: 27-Sep-00 10:02 Received: 27-Sep-00 16:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	0J06001	06-Oct-00	06-Oct-00	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.3 %*		*70-130*	"	"	"	"	
U-6 (W009709-07RE1) Water Sampled: 27-Sep-00 10:02 Received: 27-Sep-00 16:00									
Methyl tert-butyl ether	**2500**	25	ug/l	10	0J06001	06-Oct-00	07-Oct-00	EPA 8015M/8020	CC-3
Surrogate: a,a,a-Trifluorotoluene		*94.3 %*		*70-130*	"	"	"	"	

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W009709-02) Water Sampled: 27-Sep-00 12:20 Received: 27-Sep-00 16:00									**A-03**
1,2-Dibromoethane	ND	2000	ug/l	1000	0J17023	15-Oct-00	15-Oct-00	EPA 8260B	
1,2-Dichloroethane	ND	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	2000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2000	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2000	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50000	"	"	"	"	"	"	
Methyl tert-butyl ether	**83000**	2000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*50-150*		"	"	"	"	
U-2 (W009709-03) Water Sampled: 27-Sep-00 11:30 Received: 27-Sep-00 16:00									**A-03**
Methyl tert-butyl ether	**26000**	400	ug/l	200	0J17023	15-Oct-00	15-Oct-00	EPA 8260B	
Surrogate: Dibromofluoromethane		*98.0 %*	*50-150*		"	"	"	"	
U-5 (W009709-06) Water Sampled: 27-Sep-00 10:45 Received: 27-Sep-00 16:00									**A-03**
Methyl tert-butyl ether	**250**	10	ug/l	5	0J17023	15-Oct-00	15-Oct-00	EPA 8260B	
Surrogate: Dibromofluoromethane		*112 %*	*50-150*		"	"	"	"	
U-6 (W009709-07) Water Sampled: 27-Sep-00 10:02 Received: 27-Sep-00 16:00									**A-03**
Methyl tert-butyl ether	**2800**	100	ug/l	50	0J17023	15-Oct-00	15-Oct-00	EPA 8260B	
Surrogate: Dibromofluoromethane		*104 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

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 (W009709-02) Water	**Sampled: 27-Sep-00 12:20**	**Received: 27-Sep-00 16:00**							
Ferrous Iron	**2.8**	0.010	mg/l	1	0J12006	12-Oct-00	20-Oct-00	EPA 6010A	
U-2 (W009709-03) Water	**Sampled: 27-Sep-00 11:30**	**Received: 27-Sep-00 16:00**							
Ferrous Iron	**0.64**	0.010	mg/l	1	0J12006	12-Oct-00	20-Oct-00	EPA 6010A	
U-3 (W009709-04) Water	**Sampled: 27-Sep-00 09:15**	**Received: 27-Sep-00 16:00**							
Ferrous Iron	ND	0.010	mg/l	1	0J12006	12-Oct-00	20-Oct-00	EPA 6010A	
U-4 (W009709-05) Water	**Sampled: 27-Sep-00 08:35**	**Received: 27-Sep-00 16:00**							
Ferrous Iron	ND	0.010	mg/l	1	0J12006	12-Oct-00	20-Oct-00	EPA 6010A	
U-5 (W009709-06) Water	**Sampled: 27-Sep-00 10:45**	**Received: 27-Sep-00 16:00**							
Ferrous Iron	**0.33**	0.010	mg/l	1	0J12006	12-Oct-00	20-Oct-00	EPA 6010A	
U-6 (W009709-07) Water	**Sampled: 27-Sep-00 10:02**	**Received: 27-Sep-00 16:00**							
Ferrous Iron	**2.6**	0.010	mg/l	1	0J12006	12-Oct-00	20-Oct-00	EPA 6010A	

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

Anions by EPA Method 300.0

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W009709-02) Water	**Sampled: 27-Sep-00 12:20**	**Received: 27-Sep-00 16:00**							
Nitrate as NO3	ND	1.0	mg/l	10	0J03004	29-Sep-00	29-Sep-00	EPA 300.0	
Phosphate	**18.4**	5.00	"	"	"	"	"	"	
U-2 (W009709-03) Water	**Sampled: 27-Sep-00 11:30**	**Received: 27-Sep-00 16:00**							
Nitrate as NO3	ND	1.0	mg/l	10	0J03004	29-Sep-00	29-Sep-00	EPA 300.0	
Phosphate	**10.5**	5.00	"	"	"	"	"	"	
U-3 (W009709-04) Water	**Sampled: 27-Sep-00 09:15**	**Received: 27-Sep-00 16:00**							
Nitrate as NO3	**34**	1.0	mg/l	10	0J03004	29-Sep-00	29-Sep-00	EPA 300.0	
Phosphate	**15.7**	5.00	"	"	"	"	"	"	
U-4 (W009709-05) Water	**Sampled: 27-Sep-00 08:35**	**Received: 27-Sep-00 16:00**							
Nitrate as NO3	**28**	1.0	mg/l	10	0J03004	29-Sep-00	29-Sep-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	"	"	
U-5 (W009709-06) Water	**Sampled: 27-Sep-00 10:45**	**Received: 27-Sep-00 16:00**							
Nitrate as NO3	ND	1.0	mg/l	10	0J03004	29-Sep-00	29-Sep-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	"	"	
U-6 (W009709-07) Water	**Sampled: 27-Sep-00 10:02**	**Received: 27-Sep-00 16:00**							
Nitrate as NO3	ND	1.0	mg/l	10	0J03004	29-Sep-00	29-Sep-00	EPA 300.0	
Phosphate	ND	5.00	"	"	"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

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 0J06001 - EPA 5030B [P/T]										
Blank (0J06001-BLK1)				Prepared & Analyzed: 06-Oct-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	"							
Surrogate: a,a,a-Trifluorotoluene	*31.6*		"	*30.0*		*105*	*70-130*			
LCS (0J06001-BS1)				Prepared & Analyzed: 06-Oct-00						
Benzene	20.0	0.50	ug/l	20.0		100	70-130			
Toluene	21.8	0.50	"	20.0		109	70-130			
Ethylbenzene	22.0	0.50	"	20.0		110	70-130			
Xylenes (total)	64.1	0.50	"	60.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.5*		"	*30.0*		*95.0*	*70-130*			
Matrix Spike (0J06001-MS1)	**Source: W009709-04**			Prepared & Analyzed: 06-Oct-00						
Benzene	18.2	0.50	ug/l	20.0	ND	91.0	70-130			
Toluene	19.4	0.50	"	20.0	ND	97.0	70-130			
Ethylbenzene	19.5	0.50	"	20.0	ND	97.5	70-130			
Xylenes (total)	56.7	0.50	"	60.0	ND	94.5	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.1*		"	*30.0*		*93.7*	*70-130*			
Matrix Spike Dup (0J06001-MSD1)	**Source: W009709-04**			Prepared & Analyzed: 06-Oct-00						
Benzene	16.7	0.50	ug/l	20.0	ND	83.5	70-130	8.60	20	
Toluene	17.8	0.50	"	20.0	ND	89.0	70-130	8.60	20	
Ethylbenzene	17.9	0.50	"	20.0	ND	89.5	70-130	8.56	20	
Xylenes (total)	51.8	0.50	"	60.0	ND	86.3	70-130	9.07	20	
Surrogate: a,a,a-Trifluorotoluene	*25.3*		"	*30.0*		*84.3*	*70-130*			

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6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

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 0J09024 - EPA 5030B [P/T]										
Blank (0J09024-BLK1)				Prepared: 07-Oct-00 Analyzed: 08-Oct-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	"							
Surrogate: a,a,a-Trifluorotoluene	*27.1*		"	*30.0*		*90.3*	*70-130*			
Blank (0J09024-BLK2)				Prepared & Analyzed: 08-Oct-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	"							
Surrogate: a,a,a-Trifluorotoluene	*27.3*		"	*30.0*		*91.0*	*70-130*			
LCS (0J09024-BS1)				Prepared: 07-Oct-00 Analyzed: 08-Oct-00						
Benzene	20.8	0.50	ug/l	20.0		104	70-130			
Toluene	21.2	0.50	"	20.0		106	70-130			
Ethylbenzene	21.4	0.50	"	20.0		107	70-130			
Xylenes (total)	61.1	0.50	"	60.0		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.9*		"	*30.0*		*96.3*	*70-130*			
LCS (0J09024-BS2)				Prepared & Analyzed: 08-Oct-00						
Benzene	18.7	0.50	ug/l	20.0		93.5	70-130			
Toluene	19.1	0.50	"	20.0		95.5	70-130			
Ethylbenzene	19.4	0.50	"	20.0		97.0	70-130			
Xylenes (total)	56.0	0.50	"	60.0		93.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.2*		"	*30.0*		*90.7*	*70-130*			

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6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

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 0J09024 - EPA 5030B [P/T]										
Matrix Spike (0J09024-MS1)	**Source: W009735-02**			Prepared & Analyzed: 08-Oct-00						
Benzene	19.5	0.50	ug/l	20.0	ND	97.5	70-130			
Toluene	19.7	0.50	"	20.0	ND	98.5	70-130			
Ethylbenzene	20.1	0.50	"	20.0	ND	101	70-130			
Xylenes (total)	57.0	0.50	"	60.0	ND	95.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.7*		"	*30.0*		*95.7*	*70-130*			
Matrix Spike Dup (0J09024-MSD1)	**Source: W009735-02**			Prepared & Analyzed: 08-Oct-00						
Benzene	19.6	0.50	ug/l	20.0	ND	98.0	70-130	0.512	20	
Toluene	20.0	0.50	"	20.0	ND	100	70-130	1.51	20	
Ethylbenzene	20.2	0.50	"	20.0	ND	101	70-130	0	20	
Xylenes (total)	57.6	0.50	"	60.0	ND	96.0	70-130	1.05	20	
Surrogate: a,a,a-Trifluorotoluene	*28.4*		"	*30.0*		*94.7*	*70-130*			

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6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0J17023 - EPA 5030B [P/T]										
Blank (0J17023-BLK1)				Prepared & Analyzed: 14-Oct-00						
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*50.0*		"	*50.0*		*100*	*50-150*			
Blank (0J17023-BLK2)				Prepared & Analyzed: 15-Oct-00						
1,2-Dibromoethane	ND	2.0	ug/l							
1,2-Dichloroethane	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
tert-Butyl alcohol	ND	50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: Dibromofluoromethane	*51.0*		"	*50.0*		*102*	*50-150*			
LCS (0J17023-BS1)				Prepared & Analyzed: 14-Oct-00						
Methyl tert-butyl ether	60.6	2.0	ug/l	50.0		121	70-130			
Surrogate: Dibromofluoromethane	*45.0*		"	*50.0*		*90.0*	*50-150*			
LCS (0J17023-BS2)				Prepared & Analyzed: 15-Oct-00						
Methyl tert-butyl ether	60.4	2.0	ug/l	50.0		121	70-130			
Surrogate: Dibromofluoromethane	*45.0*		"	*50.0*		*90.0*	*50-150*			
LCS Dup (0J17023-BSD1)				Prepared & Analyzed: 15-Oct-00						
Methyl tert-butyl ether	*49.8*	*2.0*	*ug/l*	*50.0*		*99.6*	*70-130*	*19.6*	*25*	
Surrogate: Dibromofluoromethane	*44.0*		"	*50.0*		*88.0*	*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 0J12006 - 200.7										
Blank (0J12006-BLK1)				Prepared: 12-Oct-00 Analyzed: 20-Oct-00						
Ferrous Iron	ND	0.010	mg/l							
LCS (0J12006-BS1)				Prepared: 12-Oct-00 Analyzed: 20-Oct-00						
Ferrous Iron	0.880	0.010	mg/l	1.00		88.0	80-120			
LCS Dup (0J12006-BSD1)				Prepared: 12-Oct-00 Analyzed: 20-Oct-00						
Ferrous Iron	0.910	0.010	mg/l	1.00		91.0	80-120	3.35	20	
Matrix Spike (0J12006-MS1)		**Source: W009656-01**		Prepared: 12-Oct-00 Analyzed: 20-Oct-00						
Ferrous Iron	1.00	0.010	mg/l	1.00	0.12	88.0	80-120			
Matrix Spike Dup (0J12006-MSD1)		**Source: W009656-01**		Prepared: 12-Oct-00 Analyzed: 20-Oct-00						
Ferrous Iron	0.980	0.010	mg/l	1.00	0.12	86.0	80-120	2.02	20	

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6747 Sierra Court Suite J	Project Number: Unocal # 5325	**Reported:**
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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 0J03004 - General Preparation										
Blank (0J03004-BLK1)				Prepared & Analyzed: 29-Sep-00						
Nitrate as NO3	ND	0.10	mg/l							
Phosphate	ND	0.500	"							
LCS (0J03004-BS1)				Prepared & Analyzed: 29-Sep-00						
Nitrate as NO3	10.4	0.10	mg/l	10.0		104	80-120			
Phosphate	18.1	0.500	"	20.0		90.5	80-120			
Matrix Spike (0J03004-MS1)	**Source: W009709-04**			Prepared & Analyzed: 29-Sep-00						
Nitrate as NO3	131	2.0	mg/l	100	34	97.0	75-125			
Phosphate	167	10.0	"	200	15.7	75.7	75-125			
Matrix Spike Dup (0J03004-MSD1)	**Source: W009709-04**			Prepared & Analyzed: 29-Sep-00						
Nitrate as NO3	131	2.0	mg/l	100	34	97.0	75-125	0	20	
Phosphate	172	10.0	"	200	15.7	78.2	75-125	2.95	20	

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Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Nov-00 10:29

Notes and Definitions

A-03	This sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
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.
P-01	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference