



GETTLER-RYAN INC.

*Review
12/21/2000*

TRANSMITTAL

SHD 4/04

September 20, 2000

G-R #: 180022

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

CC: Mr. Keith Romstad
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California 94949

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

RE: Tosco(Unocal) SS #7176
7850 Amador Valley Blvd.
Dublin, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 15, 2000	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 14, 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 **October 3, 2000**, this report will be distributed to the following:

Enclosure

cc: Mr. Amir K. Gholami, REHS
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502

trans/7176.dbd

00 OCT -4 PM 3:25
ENVIRONMENTAL PROTECTION



GETTLER-RYAN INC.

September 15, 2000
G-R Job #180022

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 #7176
7850 Amador Valley Boulevard
Dublin, California

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On July 14, 2000, field personnel monitored and sampled five wells (U-1, U-2, U-3, MW-4 and MW-5) 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 the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. A Potentiometric Map is included as Figure 1.

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

Sincerely,

Deanna L. Harding

Deanna L. Harding
Project Coordinator

Stephen J. Carter

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

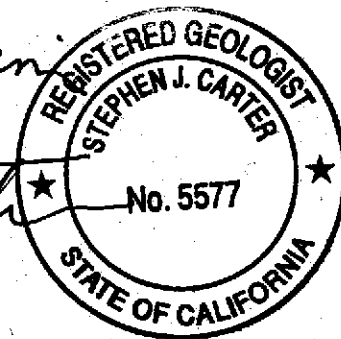


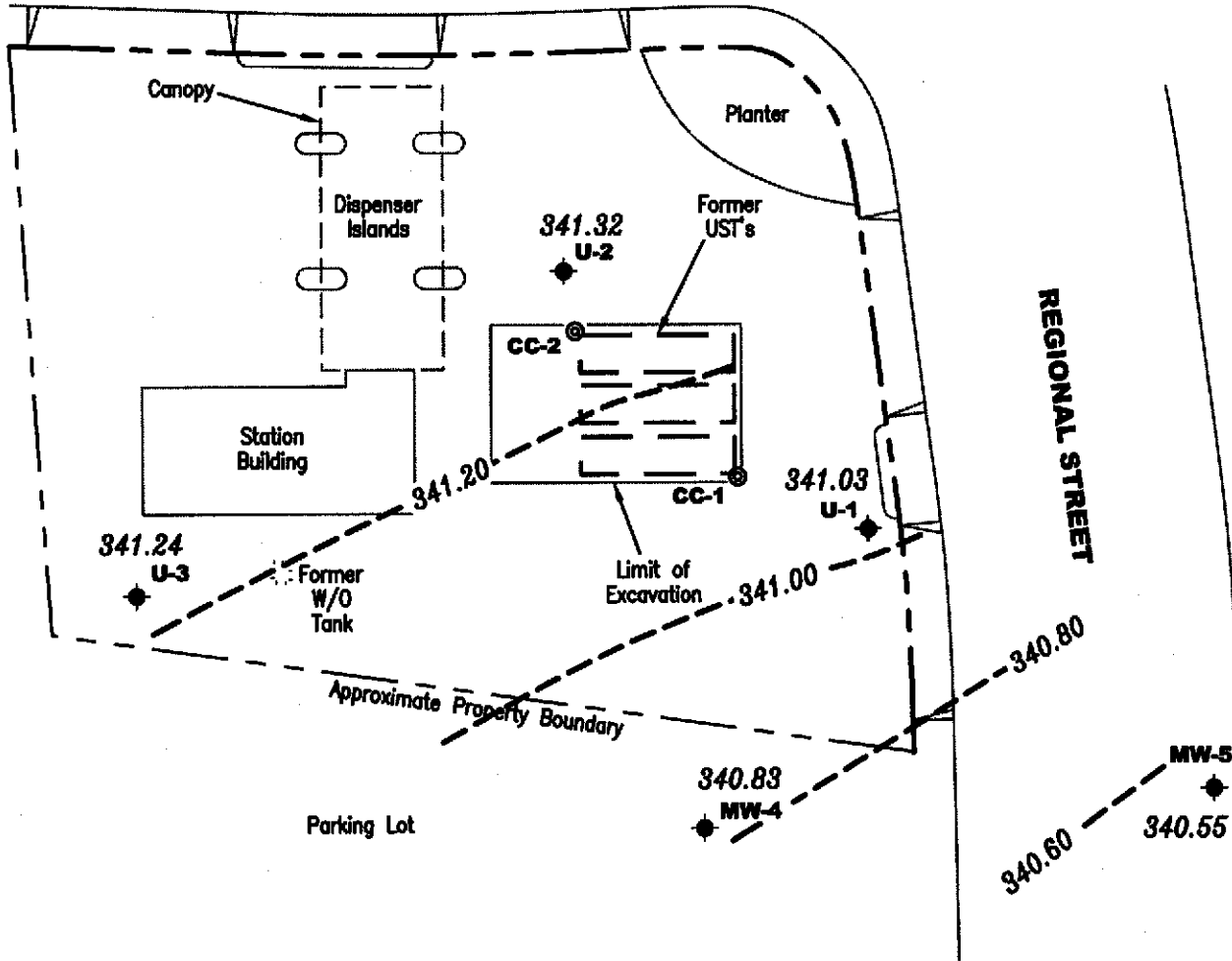
Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Dissolved Oxygen Concentrations
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets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

7176.qml

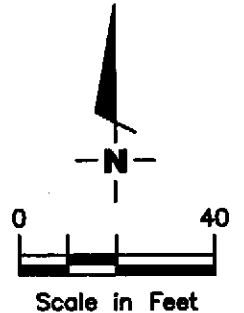
AMADOR VALLEY BOULEVARD

EXPLANATION

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



Approximate groundwater flow direction at a gradient of 0.005 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 #7176
7850 Amador Valley Boulevard
Dublin, California

FIGURE

1

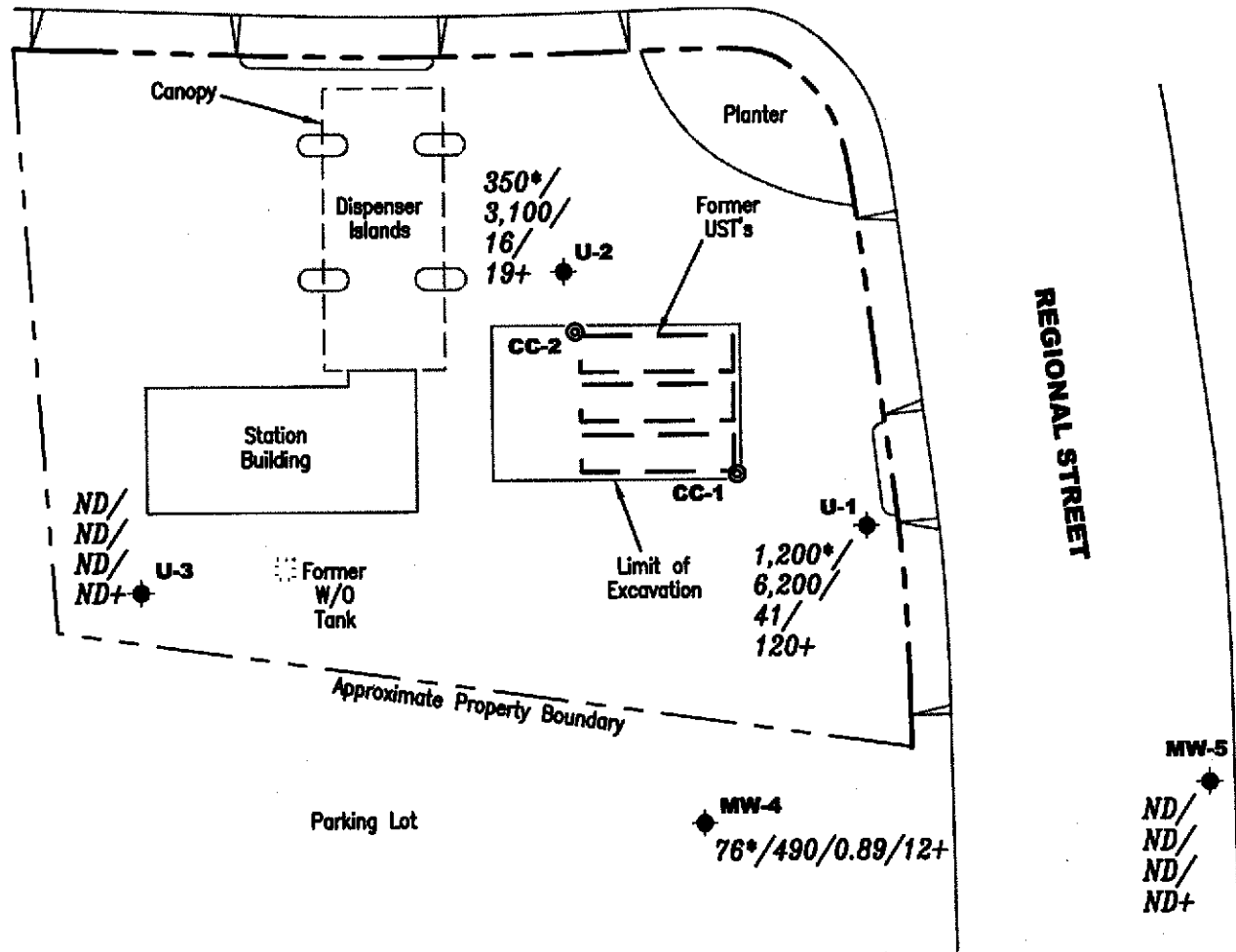
PROJECT NUMBER
180022

REVIEWED BY

DATE
July 14, 2000

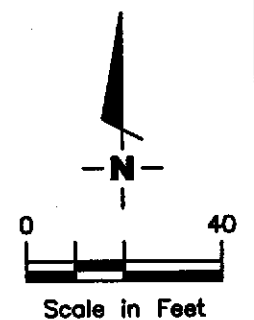
REVISED DATE

AMADOR VALLEY BOULEVARD



EXPLANATION

- ◆ Groundwater monitoring well
- ⊙ Conductor casing
- A/B/C/D TPH(D) (Total Petroleum Hydrocarbons as Diesel)/TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- + MTBE by EPA Method 8260
- ND Not Detected
- TPH(D) with silica gel



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 #7176
 7850 Amador Valley Boulevard
 Dublin, California

FIGURE
2

PROJECT NUMBER 180022	REVIEWED BY	DATE July 14, 2000	REVISED DATE
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Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft. bgs.)	GWE (msl)	TPH(D)♦ (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1											
355.62	07/08/95	12.59	10.0-30.0	343.03	9,400 ³	39,000	1,500	19	1,600	5,200	--
	10/12/95	15.38		340.24	4,200 ⁵	33,000	1,400	ND	1,400	3,100	-- ⁷
	01/11/96 ¹	16.33		339.29	8,200 ⁵	8,300	690	11	680	1,500	-- ⁸
	04/11/96 ²	12.20		343.42	630 ⁵	3,200	110	ND	180	290	790
	07/10/96	13.84		341.78	2,200 ⁵	2,600	81	4.4	210	230	510
	10/30/96	15.85		339.77	560 ⁵	2,200	67	19	140	150	360
	01/27/97	12.20		343.42	2,300 ⁵	4,600	98	ND	360	290	150
	04/08/97	13.46		342.16	1,300 ⁵	2,800	50	ND	220	140	ND
	07/17/97	15.30		340.32	460 ⁶	2,300	30	4.5	140	94	190
	10/17/97	16.33		339.29	510 ⁶	1,500	31	6.7	110	88	220
	01/19/98	14.34		341.28	¹⁰ 1,900/1,300 ¹⁰	3,100	46	3.4	310	200	170
355.59	NP 04/23/98	11.16		344.43	--/1,700 ¹¹	3,400	72	3.8	470	350	280
	NP 07/08/98	12.67		342.92	2,000 ¹⁴	4,500	51	ND ¹²	590	430	190
	10/05/98	14.57		341.02	--/2,500 ¹⁰	7,500 ¹⁶	53	ND ¹²	680	350	190/180 ¹⁷
	01/04/99	15.35		340.24	¹¹ 2,700/2,500 ¹¹	10,000 ¹⁹	ND ¹²	ND ¹²	1,200	540	ND ¹²
	04/05/99	13.64		341.95	¹⁰ 920/570 ¹⁰	4,900	34	ND ¹²	350	150	150/55 ¹⁷
	07/01/99	14.39		341.20	¹⁰ 2,700/3,600 ²⁶	10,000	45	ND ¹²	850	420	260/110 ¹⁷
	09/30/99	15.32		340.27	¹⁰ 2,360/1,680 ¹⁰	7,150 ²⁷	ND ¹²	ND ¹²	415	84.4	¹² ND/195 ¹⁷
	01/03/00	16.51		339.08	²⁶ 2,000/1,700 ²⁶	5,400 ²⁷	28	8.4	180	33	160/120 ¹⁷
	04/04/00	12.89		342.70	²⁶ 990/1,400 ²⁶	4,800 ²⁷	30	ND ¹²	210	93	170/160 ¹⁷
	07/14/00	14.56		341.03	²⁶ 2,800/1,200 ²⁶	6,200 ²⁷	41	16	170	32	170/120 ¹⁷
U-2											
356.59	07/08/95	12.68	10.0-30.0	343.91	4,700 ³	17,000	430	ND	2,200	590	--
	10/12/95	16.01		340.58	3,600 ⁵	24,000	310	60	1,900	190	-- ⁷
	01/11/96 ¹	17.06		339.53	8,600 ⁵	10,000	210	55	1,400	240	-- ⁸
	04/11/96 ²	12.75		343.84	1,900 ⁵	7,700	130	27	1,100	110	340
	07/10/96	14.42		342.17	2,300 ⁵	5,600	59	15	610	42	250
	10/30/96	16.82		339.77	1,800 ⁵	7,700	67	35	1,000	54	260
	01/27/97	12.91		343.68	660 ⁵	1,600	14	ND	130	7.0	100
	04/08/97	14.07		342.52	2,000 ⁵	4,300	35	ND	400	16	ND
	07/17/97	15.96		340.63	1,300 ⁶	6,200	17	22	410	ND	130

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH(D)♦ (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-2	10/17/97	17.03	10.0-30.0	339.56	1,400 ⁶	7,100	71	26	520	50	ND
(cont)	01/19/98	15.10		341.49	¹⁰ 2,100/1,500 ¹⁰	5,300	46	11	350	16	110
356.55	NP 04/23/98	11.74		344.81	--/1,200 ¹¹	3,200	23	11	210	38	160
	NP 07/08/98	13.27		343.28	1,100 ¹⁴	1,600	34	8.5	100	7.4	190
	10/05/98	14.90		341.65	--/1,300 ¹⁰	2,900 ¹⁸	37	8.4	110	7.3	78
	01/04/99	15.94		340.61	¹¹ 670/250 ²⁰	2,200 ²¹	35	ND ¹²	17	ND ¹²	86
	04/05/99	14.19		342.36	¹⁰ 660/490 ¹⁰	4,900	21	77	130	310	100/6.9 ¹⁷
	07/01/99	14.98		341.57	²⁴ 210/440 ²⁶	1,500 ²⁵	7.6	ND ¹²	ND ¹²	ND ¹²	¹² ND/35 ¹⁷
	09/30/99	16.00		340.55	¹⁰ 483/340 ¹⁰	256 ²⁷	1.85	ND ¹²	2.42	ND ¹²	26.3/29.8 ¹⁷
	01/03/00	17.20		339.35	²⁶ 2,400/1,900 ²⁶	3,400 ²⁷	23	13	ND ¹²	44	46/14 ¹⁷
	04/04/00	13.50		343.05	²⁶ 1,000/1,000 ²⁶	3,600 ²⁷	34	17	56	ND ¹²	59/25 ¹⁷
	07/14/00	15.23		341.32	²⁶ 1,000/350 ²⁶	3,100 ²⁷	16	13	15	10	100/19 ¹⁷
U-3											
358.13	07/08/95	14.58	10.0-30.0	343.55	710 ³	1,100 ⁴	0.57	2.1	1.7	2.4	--
	10/12/95	17.60		340.53	470 ⁶	560	ND	0.87	0.7	1.1	--
	01/11/96 ¹	18.65		339.48	260 ⁶	230	0.62	0.91	0.97	1.9	--
	04/11/96	13.20		344.93	ND	68 ⁹	ND	ND	ND	ND	ND
	07/10/96	15.98		342.15	ND	ND	ND	ND	ND	ND	ND
	10/30/96	18.24		339.89	ND	70	ND	ND	ND	ND	ND
	01/27/97	14.41		343.72	ND	ND	ND	ND	ND	ND	ND
	04/08/97	15.73		342.40	ND	ND	ND	ND	ND	ND	ND
	07/17/97	17.54		340.59	ND	ND	ND	ND	ND	ND	ND
	10/17/97	18.64		339.49	63 ⁶	ND	ND	ND	ND	ND	ND
	01/19/98	16.67		341.46	¹⁰ 68/ND	ND	ND	ND	ND	ND	ND
358.09	NP 04/23/98	13.28		344.81	--/ND	ND	ND	ND	ND	ND	ND
	NP 07/08/98	14.90		343.19	80 ¹⁵	ND	ND	ND	ND	ND	ND
	10/05/98	16.50		341.59	--/ND	ND	ND	ND	ND	ND	ND
	01/04/99	17.70		340.39	ND	ND	ND	ND	ND	ND	ND
	04/05/99	15.67		342.42	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
	07/01/99	16.79		341.30	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
	09/30/99	17.60		340.49	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH(D)♦ (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-3 (cont)	01/03/00	18.86	10.0-30.0	339.23	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
	04/04/00	15.10		342.99	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
	07/14/00	16.85		341.24	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
MW-4 356.41	04/23/98	12.11	10.0-25.0	344.30	--/1,400 ¹¹	2,500	5.9	6.4	16	31	ND ¹²
	07/08/98	13.70		342.71	1,400 ¹¹	1,000 ¹³	ND ¹²	ND ¹²	ND ¹²	ND ¹²	ND ¹²
	10/05/98	15.18		341.23	--/230 ¹⁰	890 ¹⁶	ND ¹²	ND ¹²	ND ¹²	14	ND ¹²
	01/04/99	16.39		340.02	¹⁰ 71/71 ¹⁰	230 ²²	0.56	1.3	1.4	1.8	10
	04/05/99	14.61		341.80	¹⁰ 340/210 ¹⁰	620 ²³	ND ¹²	1.8	2.1	ND ¹²	6.0/9.3 ¹⁷
	07/01/99	15.43		340.98	²⁴ 260/310 ²⁶	700 ¹⁹	2.1	ND ¹²	1.9	2.4	¹² ND/21 ¹⁷
	09/30/99	16.27		340.14	¹⁰ 420/220 ¹⁰	582 ²⁷	2.60	1.30	1.98	ND ¹²	23.1/22.5 ¹⁷
	01/03/00	17.50		338.91	²⁶ 250/260 ²⁶	800 ²⁷	4.2	4.6	3.3	11	31/17 ¹⁷
	04/04/00	13.91		342.50	^{10,15} 460/340 ²⁶	710 ²⁷	2.0	1.3	4.4	2.0	21/22 ¹⁷
	07/14/00	15.58		340.83	²⁶ 220/76 ²⁶	490 ²⁸	0.89	1.3	0.85	1.8	21/12 ¹⁷
MW-5 355.03	04/23/98	11.15	10.0-25.0	343.88	--/100 ¹¹	120	0.53	0.90	1.0	3.8	13
	07/08/98	12.63		342.40	170 ¹⁰	ND	ND	ND	ND	ND	12
	10/05/98	14.00		341.03	--/100 ¹⁰	ND	ND	ND	ND	ND	12
	01/04/99	15.21		339.82	ND	ND	ND	ND	ND	ND	ND
	04/05/99	13.76		341.27	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
	07/01/99	14.48		340.55	ND	ND	ND	ND	ND	ND	¹² ND/2.3 ¹⁷
	09/30/99	15.15		339.88	¹⁰ 60.4/ND	50.8 ²⁷	ND	ND	ND	ND	ND/ND ¹⁷
	01/03/00	16.34		338.69	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
	04/04/00	12.90		342.13	¹⁵ 69/ND	ND	ND	ND	ND	ND	ND/ND ¹⁷
07/14/00	14.48		340.55	ND	ND	ND	ND	ND	ND	ND/ND ¹⁷	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft. bgs.)	GWE (msl)	TPH(D)◆ (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank											
TB-LB	01/19/98	--		--	--	ND	ND	ND	ND	ND	ND
	04/23/98	--		--	--	ND	ND	ND	ND	ND	ND
	07/08/98	--		--	--	ND	ND	ND	ND	ND	ND
	10/05/98	--		--	--	ND	ND	0.70	ND	0.71	ND
	01/04/99	--		--	--	ND	ND	0.74	ND	0.92	ND
	04/05/99	--		--	--	ND	ND	ND	ND	ND	ND
	07/01/99	--		--	--	ND	ND	ND	ND	ND	ND
	09/30/99	--		--	--	ND	ND	ND	ND	ND	ND
	01/03/00	--		--	--	ND	ND	ND	ND	ND	ND
	04/04/00	--		--	--	ND	ND	ND	ND	ND	ND
	07/14/00	--		--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to January 19, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	TPH(G) = Total Petroleum Hydrocarbons as Gasoline	
DTW = Depth to Water	B = Benzene	ppb = Parts per billion
S.I. = Screen Interval	T = Toluene	ND = Not Detected
(ft. bgs.) = Feet Below Ground Surface	E = Ethylbenzene	-- = Not Measured/Not Analyzed
(ft.) = Feet	X = Xylenes	NP = No purge
GWE = Groundwater Elevation	MTBE = Methyl tertiary butyl ether	PNA = Polynuclear Aromatic Hydrocarbons
msl = Mean sea level		
TPH(D) = Total Petroleum Hydrocarbons as Diesel		

- * TOC elevations were surveyed relative to msl, per the Benchmark AM-STW1977 located at the easterly return at the most easterly corner of intersection at Amador Valley Boulevard and Starward Street (Elevation = 344.17 feet msl).
- ◆ Analytical results reported as follows: TPH(D)/TPH(D) with silica gel cleanup.
- ¹ PNA compound naphthalene was detected in well U-1 at a concentration of 320 ppb, and at a concentration of 310 ppb in well U-2. All other PNA compounds were ND in both wells.
- ² PNA compounds were ND.
- ³ Laboratory report indicates unidentified hydrocarbons C9-C26.
- ⁴ Laboratory report indicates gasoline and unidentified hydrocarbons >C12.
- ⁵ Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- ⁶ Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- ⁷ Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- ⁸ 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.
- ⁹ Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- ¹⁰ Laboratory report indicates unidentified hydrocarbons C9-C24.
- ¹¹ Laboratory report indicates diesel and unidentified hydrocarbons <C14.
- ¹² Detection limit raised. Refer to analytical reports.
- ¹³ Laboratory report indicates unidentified hydrocarbons >C8.
- ¹⁴ Laboratory report indicates unidentified hydrocarbons <C14.
- ¹⁵ Laboratory report indicates discrete peaks.
- ¹⁶ Laboratory report indicates weathered gas C6-C12.
- ¹⁷ MTBE by EPA Method 8260.
- ¹⁸ Laboratory report indicates unidentified hydrocarbons <C8.
- ¹⁹ Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
- ²⁰ Laboratory report indicates diesel and unidentified hydrocarbons <C16.
- ²¹ Laboratory report indicates unidentified hydrocarbons C6-C12.
- ²² Laboratory report indicates gasoline and unidentified hydrocarbons >C10.
- ²³ Laboratory report indicates gasoline and unidentified hydrocarbons <C7.

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

EXPLANATIONS: (cont)

- 24 Laboratory report indicates unidentified hydrocarbons C10-C24.
- 25 Laboratory report indicates gasoline and unidentified hydrocarbons <C6.
- 26 Laboratory report indicates unidentified hydrocarbons <C16.
- 27 Laboratory report indicates gasoline C6-C12.
- 28 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

WELL ID	DATE	ETHANOL <i>(ppb)</i>	FBA <i>(ppb)</i>	MTBE <i>(ppb)</i>	DIPE <i>(ppb)</i>	ETBE <i>(ppb)</i>	TAME <i>(ppb)</i>	EDB <i>(ppb)</i>	1,2-DCA <i>(ppb)</i>
U-1	04/05/99	ND ¹	ND ¹	55	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	07/01/99	ND	ND	110	ND	ND	ND	ND	ND
	09/30/99	ND ¹	ND ¹	195	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	01/03/00	ND	ND	120	ND	ND	ND	ND	ND
	04/04/00	ND ¹	ND ¹	160	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	07/14/00	ND¹	ND¹	120	ND¹	ND¹	ND¹	ND¹	ND¹
U-2	04/05/99	ND ¹	ND ¹	6.9	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	07/01/99	ND	ND	35	ND	ND	ND	ND	ND
	09/30/99	ND	ND	29.8	ND	ND	ND	ND	ND
	01/03/00	ND	ND	14	ND	ND	ND	ND	ND
	04/04/00	ND ¹	ND ¹	25	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	07/14/00	ND	ND	19	ND	ND	ND	ND	ND
U-3	04/05/99	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/99	ND	ND	ND	ND	ND	ND	ND	ND
	09/30/99	ND	ND	ND	ND	ND	ND	ND	ND
	01/03/00	ND	ND	ND	ND	ND	ND	ND	ND
	04/04/00	ND	ND	ND	ND	ND	ND	ND	ND
	07/14/00	ND	ND	ND	ND	ND	ND	ND	ND
MW-4	04/05/99	ND	ND	9.3	ND	ND	ND	ND	ND
	07/01/99	ND	ND	21	ND	ND	ND	ND	ND
	09/30/99	ND	ND	22.5	ND	ND	ND	ND	ND
	01/03/00	ND	ND	17	ND	ND	ND	ND	ND
	04/04/00	ND	ND	22	ND	ND	ND	ND	ND
	07/14/00	ND	ND	12	ND	ND	ND	ND	ND

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
MW-5	04/05/99	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/99	ND	ND	2.3	ND	ND	ND	ND	ND
	09/30/99	ND	ND	ND	ND	ND	ND	ND	ND
	01/03/00	ND	ND	ND	ND	ND	ND	ND	ND
	04/04/00	ND	ND	ND	ND	ND	ND	ND	ND
	07/14/00	ND	ND	ND	ND	ND	ND	ND	ND

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

EXPLANATIONS:

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

¹ Detection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #7176
 7850 Amador Valley Boulevard
 Dublin, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
U-1	01/11/96	--	3.41
	04/11/96	3.77	3.78
	07/10/96 ¹	1.22	--
	10/30/96 ¹	1.41	--
	01/27/97 ¹	1.34	--
	04/08/97 ¹	2.09	--
	07/17/97 ¹	2.00	--
	10/17/97 ¹	1.86	--
	01/19/98 ¹	2.91	--
	04/23/98 ¹	0.59	--
07/08/98 ¹	1.10	--	
U-2	01/11/96	--	3.99
	04/11/96	3.32	3.41
	07/10/96 ¹	1.01	--
	10/30/96 ¹	1.42	--
	01/27/97 ¹	1.29	--
	04/08/97 ¹	1.69	--
	07/17/97 ¹	2.08	--
	10/17/97 ¹	1.80	--
	01/19/98 ¹	2.95	--
	04/23/98 ¹	0.55	--
07/08/98 ¹	1.36	--	
U-3	01/11/96	--	5.05
	04/11/96	5.16	4.96
	07/10/96 ¹	3.44	--
	10/30/96 ¹	2.18	--
	01/27/97 ¹	2.61	--
	04/08/97 ¹	3.73	--
	07/17/97 ¹	2.65	--
	10/17/97 ¹	2.44	--
	01/19/98 ¹	6.51	--
	04/23/98 ¹	4.72	--
07/08/98 ¹	4.35	--	
CC-1	10/02/95	2.83	--

EXPLANATIONS:

Dissolved oxygen concentrations prior to January 19, 1998, were compiled from reports prepared by MPDS Services, Inc.

CC-1 = Conductor casing in the underground storage tank backfill

-- = Not Measured

mg/L = milligrams per liter

¹ The wells were not purged on this date.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco 7176 Job#: 180022
 Address: 7850 Amador Valley Blvd. Date: 7/14/00
 City: Dublin, CA Sampler: H. KEVORIAN

Well ID: U-1 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: _____ in. Amount Bailed (product/water): _____ (gal.)
 Total Depth: 27.90 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 14.56 ft. 6" = 1.50 12" = 5.80

13.34 x VF 0.17 = 2.2 X 3 (case volume) = Estimated Purge Volume: 6.6 (gal.)

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

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

Starting Time: 14:47 Weather Conditions: SUNNY
 Sampling Time: 15:05 Water Color: _____ Odor: _____
 Purging Flow Rate: 2.1 gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>14:50</u>	<u>2.5</u>	<u>6.75</u>	<u>959</u>	<u>80.0</u>			
	<u>5</u>	<u>6.70</u>	<u>942</u>	<u>78.9</u>			
<u>14:54</u>	<u>7</u>	<u>6.67</u>	<u>928</u>	<u>78.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-1</u>	<u>4 x VOA w/ HCL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQ.</u>	<u>TPH/G/TEX/MTBE/6</u>
	<u>1 Liter Amber</u>	<u>Y</u>	<u>None</u>	<u>SEQ.</u>	<u>TPH Diesel</u>

1,2-DCA
 PMS EDS

COMMENTS: NEW LOCK

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco 7176
 Address: 7850 Amador Valley Blvd.
 City: Dublin, CA

Job#: 180022
 Date: 7/14/00
 Sampler: H. KEVORIK

Well ID: U-2
 Well Diameter: 2 in.
 Total Depth: 26.50 ft.
 Depth to Water: 15.23 ft.

Well Condition: OK
 Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)

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

11.27 X VF 0.17 = 1.9 X 3 (case volume) = Estimated Purge Volume: 5.7 (gal.)

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

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

Starting Time: 14:15
 Sampling Time: 14:32
 Purging Flow Rate: ~1 gpm.
 Did well de-water? NO

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

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C/F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>14:17</u>	<u>2</u>	<u>6.75</u>	<u>1286</u>	<u>83.0</u>	_____	_____	_____
<u>14:22</u>	<u>4</u>	<u>6.71</u>	<u>1255</u>	<u>81.7</u>	_____	_____	_____
<u>14:23</u>	<u>6</u>	<u>6.76</u>	<u>1248</u>	<u>81.1</u>	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-2</u>	<u>4 x VOA w/ HCL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQ.</u>	<u>TPH/G/OTEX/MTBE/6</u>
	<u>1 Liter Amber</u>	<u>Y</u>	<u>None</u>	<u>SED</u>	<u>TPH Diesel</u>

1,2,3,4,5 EDB

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco 7176
 Address: 7850 Amador Valley Blvd.
 City: Dublin, CA

Job#: 180022
 Date: 4/14/00
 Sampler: H. KEVORIK

Well ID: U-3
 Well Diameter: 2 in.
 Total Depth: 28.50 ft.
 Depth to Water: 16.85 ft.

Well Condition: OK

Hydrocarbon Thickness:	Amount Bailed (product/water):			
	2"	3"	4"	5"
Volume	0.17	0.98	0.66	
Factor (VF)	1.50	5.80		

$11.65 \times VF 0.17 = 1.98 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 5.9 \text{ (gal.)}$

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

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

Starting Time: 12:35
 Sampling Time: 12:51
 Purging Flow Rate: 1 gpm.
 Did well de-water? NO

Weather Conditions: Sunny
 Water Color: Cloudy Odor: NONE
 Sediment Description: NONE
 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>12:37</u>	<u>2</u>	<u>7.04</u>	<u>1230</u>	<u>90.2</u>	_____	_____	_____
<u>12:39</u>	<u>4</u>	<u>6.95</u>	<u>1358</u>	<u>89.9</u>	_____	_____	_____
<u>12:41</u>	<u>6</u>	<u>6.81</u>	<u>1419</u>	<u>89.7</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-3</u>	<u>4 x 20A w/ HCL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQ.</u>	<u>TPH/G/TEX/MTBE/6</u>
<u>U-3</u>	<u>1 Liter Amber</u>	<u>Y</u>	<u>None</u>	<u>SED</u>	<u>TPH Diesel</u>
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco 7176 Job#: 180022
 Address: 7850 Amador Valley Blvd. Date: 7/14/00
 City: Dublin, CA Sampler: H. KEBORK

Well ID MW-4 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)
 Total Depth 25.50 ft.
 Depth to Water 15.58 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.98	4" = 0.66
	6" = 1.50	12" = 5.80	

9.92 x VF 0.17 = 1.6 x 3 (case volume) = Estimated Purge Volume: 4.8 (gal.)

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

Starting Time: 13:48 Weather Conditions: SUNNY
 Sampling Time: 14:02 Water Color: CLOUDY Odor: _____
 Purging Flow Rate: 21 gpm. Sediment Description: _____
 Did well de-water? NO If yes: Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:50</u>	<u>2</u>	<u>6.89</u>	<u>1114</u>	<u>79.9</u>			
	<u>3.5</u>	<u>6.84</u>	<u>1158</u>	<u>78.8</u>			
<u>13:53</u>	<u>5</u>	<u>6.81</u>	<u>1196</u>	<u>79.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>4 x VOA w/ HCL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQ.</u>	<u>TPH, BTEX, MTBE (G)</u>
	<u>1 Liter Amber</u>	<u>Y</u>	<u>None</u>	<u>SEQ.</u>	<u>TPH, Diesel</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco 7176 Job#: 180022
 Address: 7850 Amador Valley Blvd. Date: 7/14/00
 City: Dublin, CA Sampler: H. KEVORK

Well ID: MW-5 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)
 Total Depth: 25.00 ft.
 Depth to Water: 14.48 ft.

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

10.52 X VF 0.17 = 1.7 X 3 (case volume) = Estimated Purge Volume: 5.1 (gal.)

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

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

Starting Time: 13:15 Weather Conditions: SUNNY
 Sampling Time: 13:30 Water Color: CLOUDY Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C / °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:18</u>	<u>2</u>	<u>7.10</u>	<u>1280</u>	<u>84.0</u>			
	<u>3.5</u>	<u>6.99</u>	<u>1219</u>	<u>83.2</u>			
<u>13:24</u>	<u>5</u>	<u>7.03</u>	<u>1236</u>	<u>82.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>4 x VOA w/ HCL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQ.</u>	<u>TPH/GTEX/MTBE/6</u>
	<u>1 Liter Amber</u>	<u>Y</u>	<u>None</u>	<u>SEQ.</u>	<u>TPH Diesel</u>

1,2,4-EDB

COMMENTS: _____



TOSCO

Tosco Marketing Company
2800 Dow Center Pl., Ste. 400
San Ramon, California 94583

Facility Number UNOCAL SS# 7176
Facility Address 7850 Amador Valley Blvd. Dublin, CA

Consultant Project Number 180022.85
Consultant Name Gattler-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) 277-2384

Laboratory Name Sequoia Analytical
Laboratory Release Number WCD7333

Samples Collected by (Name) HAIG KEVORK

Collection Date 7/14/2000
Signature [Signature]

DO NOT BILL
TB-LB ANALYSIS

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analyses To Be Performed										Remarks	
								TPH Gas - BTEX W/ATBE (8018)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	OXYGENATES (G) 8260	1,2-DCA		EDB
TB-LB	01A	1	W	G		HCL	YES	✓											Run silica Gel
U-1	02A-D	5	W	G	15:05	HCL & VOA		✓	✓										clean-up on bag
U-2	03	5	W	G	14:32			✓	✓										Diesel hits.
U-3	04	5	W	G	12:51			✓	✓										
MW-4	05	5	W	G	14:02			✓	✓										
MW-5	06V	5	W	G	13:30	↓	↓	✓	✓										

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>G-R Inc.</u>	Date/Time	Received By (Signature) <u>[Signature]</u>	Organization <u>Seq</u>	Date/Time <u>7-17/1545</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>Seq</u>	Date/Time <u>7-17/1620</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>7/17/00 16:20</u>	



Sequoia Analytical

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

25 August, 2000

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

RE: Unocal
Sequoia Report W007333

Enclosed are the results of analyses for samples received by the laboratory on 17-Jul-00 16:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Charlie Westwater
Project Manager

CA ELAP Certificate #1271





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

Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W007333-01	Water	14-Jul-00 00:00	17-Jul-00 16:20
U-1	W007333-02	Water	14-Jul-00 15:05	17-Jul-00 16:20
U-2	W007333-03	Water	14-Jul-00 14:32	17-Jul-00 16:20
U-3	W007333-04	Water	14-Jul-00 12:51	17-Jul-00 16:20
MW-4	W007333-05	Water	14-Jul-00 14:02	17-Jul-00 16:20
MW-5	W007333-06	Water	14-Jul-00 13:30	17-Jul-00 16:20





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

Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

**Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W007333-02) Water Sampled: 14-Jul-00 15:05 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	1200	50	ug/l	1	0G27004	27-Jul-00	23-Aug-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		33.9 %	50-140		"	"	"	"	S-04
U-2 (W007333-03) Water Sampled: 14-Jul-00 14:32 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	350	50	ug/l	1	0G27004	27-Jul-00	23-Aug-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		56.2 %	50-140		"	"	"	"	
MW-4 (W007333-05) Water Sampled: 14-Jul-00 14:02 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	76	50	ug/l	1	0G27004	27-Jul-00	23-Aug-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		41.1 %	50-140		"	"	"	"	S-04





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

Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W007333-02) Water Sampled: 14-Jul-00 15:05 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	2800	50	ug/l	1	0G27004	27-Jul-00	03-Aug-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		65.2 %	50-150		"	"	"	"	
U-2 (W007333-03) Water Sampled: 14-Jul-00 14:32 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	1000	50	ug/l	1	0G27004	27-Jul-00	03-Aug-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		103 %	50-150		"	"	"	"	
U-3 (W007333-04) Water Sampled: 14-Jul-00 12:51 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	ND	50	ug/l	1	0G27004	27-Jul-00	03-Aug-00	EPA 8015M	
Surrogate: n-Pentacosane		99.1 %	50-150		"	"	"	"	
MW-4 (W007333-05) Water Sampled: 14-Jul-00 14:02 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	220	50	ug/l	1	0G27004	27-Jul-00	03-Aug-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		64.0 %	50-150		"	"	"	"	
MW-5 (W007333-06) Water Sampled: 14-Jul-00 13:30 Received: 17-Jul-00 16:20									
Diesel Range Hydrocarbons	ND	50	ug/l	1	0G27004	27-Jul-00	04-Aug-00	EPA 8015M	
Surrogate: n-Pentacosane		102 %	50-150		"	"	"	"	





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

Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

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 (W007333-04) Water Sampled: 14-Jul-00 12:51 Received: 17-Jul-00 16:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	0G24003	24-Jul-00	24-Jul-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>		92.7 %		70-130	"	"	"	"	P-04
MW-4 (W007333-05) Water Sampled: 14-Jul-00 14:02 Received: 17-Jul-00 16:20									
Purgeable Hydrocarbons	490	50	ug/l	1	0G24003	24-Jul-00	24-Jul-00	EPA 8015M/8020	
Benzene	0.89	0.50	"	"	"	"	"	"	
Toluene	1.3	0.50	"	"	"	"	"	"	
Ethylbenzene	0.85	0.50	"	"	"	"	"	"	
Xylenes (total)	1.8	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	21	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		78.3 %		70-130	"	"	"	"	
MW-5 (W007333-06) Water Sampled: 14-Jul-00 13:30 Received: 17-Jul-00 16:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	0G24003	24-Jul-00	24-Jul-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>		95.3 %		70-130	"	"	"	"	





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

Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

**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 (W007333-01) Water Sampled: 14-Jul-00 00:00 Received: 17-Jul-00 16:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	0G24003	24-Jul-00	24-Jul-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>		97.7 %	70-130	"	"	"	"	"	
U-1 (W007333-02) Water Sampled: 14-Jul-00 15:05 Received: 17-Jul-00 16:20 P-01									
Purgeable Hydrocarbons	6200	500	ug/l	10	0G24003	24-Jul-00	24-Jul-00	EPA 8015M/8020	
Benzene	41	5.0	"	"	"	"	"	"	
Toluene	16	5.0	"	"	"	"	"	"	
Ethylbenzene	170	5.0	"	"	"	"	"	"	
Xylenes (total)	32	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	170	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		78.3 %	70-130	"	"	"	"	"	
U-2 (W007333-03) Water Sampled: 14-Jul-00 14:32 Received: 17-Jul-00 16:20 P-01									
Purgeable Hydrocarbons	3100	500	ug/l	10	0G24003	24-Jul-00	24-Jul-00	EPA 8015M/8020	
Benzene	16	5.0	"	"	"	"	"	"	
Toluene	13	5.0	"	"	"	"	"	"	
Ethylbenzene	15	5.0	"	"	"	"	"	"	
Xylenes (total)	10	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	100	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.7 %	70-130	"	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
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Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W007333-02) Water Sampled: 14-Jul-00 15:05 Received: 17-Jul-00 16:20									
Ethanol	ND	2500	ug/l	5	0G25017	24-Jul-00	25-Jul-00	EPA 8260B	
tert-Butyl alcohol	ND	500	"	"	"	"	"	"	
Methyl tert-butyl ether	120	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethylene dibromide	ND	10	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		84.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.0 %	50-150	"	"	"	"	"	
U-2 (W007333-03) Water Sampled: 14-Jul-00 14:32 Received: 17-Jul-00 16:20									
Ethanol	ND	500	ug/l	1	0G25017	24-Jul-00	25-Jul-00	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	19	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		86.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	50-150	"	"	"	"	"	
U-3 (W007333-04) Water Sampled: 14-Jul-00 12:51 Received: 17-Jul-00 16:20									
Ethanol	ND	500	ug/l	1	0G25017	24-Jul-00	25-Jul-00	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		86.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.0 %	50-150	"	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
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Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W007333-05) Water Sampled: 14-Jul-00 14:02 Received: 17-Jul-00 16:20									
Ethanol	ND	500	ug/l	1	0G25017	24-Jul-00	25-Jul-00	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	12	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		86.0 %		50-150	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82.0 %		50-150	"	"	"	"	
MW-5 (W007333-06) Water Sampled: 14-Jul-00 13:30 Received: 17-Jul-00 16:20									
Ethanol	ND	500	ug/l	1	0G25017	24-Jul-00	25-Jul-00	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		84.0 %		50-150	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.0 %		50-150	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
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Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

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 0G24003 - EPA 5030B [P/T]										
Blank (0G24003-BLK1) Prepared & Analyzed: 24-Jul-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>	30.1		"	30.0		100	70-130			
LCS (0G24003-BS1) Prepared & Analyzed: 24-Jul-00										
Benzene	18.6	0.50	ug/l	20.0		93.0	70-130			
Toluene	18.7	0.50	"	20.0		93.5	70-130			
Ethylbenzene	19.7	0.50	"	20.0		98.5	70-130			
Xylenes (total)	35.1	0.50	"	60.0		91.8	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	27.4		"	30.0		91.3	70-130			
LCS Dup (0G24003-BSD1) Prepared & Analyzed: 24-Jul-00										
Benzene	21.6	0.50	ug/l	20.0		108	70-130	14.9	20	
Toluene	21.7	0.50	"	20.0		109	70-130	14.9	20	
Ethylbenzene	21.9	0.50	"	20.0		109	70-130	10.6	20	
Xylenes (total)	62.9	0.50	"	60.0		105	70-130	13.2	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	27.9		"	30.0		93.0	70-130			
Matrix Spike (0G24003-MS1) Source: W007317-07 Prepared & Analyzed: 24-Jul-00 Q-01										
Benzene	24.6	0.50	ug/l	20.0	ND	123	70-130			
Toluene	25.0	0.50	"	20.0	ND	125	70-130			
Ethylbenzene	26.3	0.50	"	20.0	ND	131	70-130			
Xylenes (total)	75.3	0.50	"	60.0	ND	126	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	27.8		"	30.0		92.7	70-130			



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6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

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
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Batch 0G24003 - EPA 5030B [P/T]

Matrix Spike Dup (0G24003-MSD1)

Source: W007317-07

Prepared & Analyzed: 24-Jul-00

Q-01

Benzene	26.7	0.50	ug/l	20.0	ND	134	70-130	8.19	20	
Toluene	26.9	0.50	"	20.0	ND	134	70-130	7.32	20	
Ethylbenzene	27.1	0.50	"	20.0	ND	136	70-130	3.00	20	
Xylenes (total)	78.6	0.50	"	60.0	ND	131	70-130	4.29	20	
Surrogate: <i>a, a, a</i> -Trifluorotoluene	26.9		"	30.0		89.7	70-130			





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

Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0G27004 - EPA 3510B										
Blank (0G27004-BLK1)				Prepared: 27-Jul-00 Analyzed: 07-Aug-00						
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	33.3		"	33.3		100	50-150			
LCS (0G27004-BS1)				Prepared: 27-Jul-00 Analyzed: 07-Aug-00						
Diesel Range Hydrocarbons	441	50	ug/l	500		88.2	60-140			
Surrogate: n-Pentacosane	37.7		"	33.3		113	50-150			
LCS Dup (0G27004-BSD1)				Prepared: 27-Jul-00 Analyzed: 07-Aug-00						
Diesel Range Hydrocarbons	425	50	ug/l	500		85.0	60-140	3.70	50	
Surrogate: n-Pentacosane	37.7		"	33.3		113	50-150			





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6747 Sierra Court Suite J
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Project: Unocal
Project Number: Unocal # 7176
Project Manager: Deanna L. Harding

Reported:
25-Aug-00 08:44

**Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup 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 0G27004 - EPA 3510B										
Blank (0G27004-BLK1)										
Prepared: 27-Jul-00 Analyzed: 22-Aug-00										
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	27.3		"	33.3		82.0	50-140			
LCS (0G27004-BS1)										
Prepared: 27-Jul-00 Analyzed: 23-Aug-00										
Diesel Range Hydrocarbons	277	50	ug/l	500		55.4	35-125			
Surrogate: n-Pentacosane	29.7		"	33.3		89.2	50-140			
LCS Dup (0G27004-BSD1)										
Prepared: 27-Jul-00 Analyzed: 23-Aug-00										
Diesel Range Hydrocarbons	274	50	ug/l	500		54.8	35-125	1.09	50	
Surrogate: n-Pentacosane	34.3		"	33.3		103	50-140			





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Reported:
25-Aug-00 08:44

Volatile Organic Compounds 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
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Batch 0G25017 - EPA 5030B [P/T]

Blank (0G25017-BLK2)

Prepared & Analyzed: 25-Jul-00

Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	100	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: Dibromofluoromethane	43.0		"	50.0		86.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	42.0		"	50.0		84.0	50-150			

LCS (0G25017-BS2)

Prepared & Analyzed: 25-Jul-00

Methyl tert-butyl ether	40.9	2.0	ug/l	50.0		81.8	70-130			
Surrogate: Dibromofluoromethane	43.0		"	50.0		86.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	40.0		"	50.0		80.0	50-150			

Matrix Spike (0G25017-MS1)

Source: W007319-04

Prepared & Analyzed: 24-Jul-00

Methyl tert-butyl ether	37.4	2.0	ug/l	50.0	ND	74.8	60-150			
Surrogate: Dibromofluoromethane	41.0		"	50.0		82.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	40.0		"	50.0		80.0	50-150			

Matrix Spike Dup (0G25017-MSD1)

Source: W007319-04

Prepared & Analyzed: 24-Jul-00

Methyl tert-butyl ether	39.4	2.0	ug/l	50.0	ND	78.8	60-150	5.21	25	
Surrogate: Dibromofluoromethane	41.0		"	50.0		82.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	40.0		"	50.0		80.0	50-150			





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6747 Sierra Court Suite J
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Project: Unocal
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Reported:
25-Aug-00 08:44

Notes and Definitions

- D-11 Chromatogram Pattern: Unidentified Hydrocarbons < C16
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-04 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





Tosco Marketing Company
2700 Cow Canyon Pl., Ste. 200
San Ramon, California 94583

Facility Number INOCAL SS# 7176
 Facility Address 7850 Amador Valley Blvd. Dublin, CA
 Consultant Project Number 180022.85
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)
 Address 6747 Sierra Court, Suite 1, 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) 277-2384
 Laboratory Name Sequoia Analytical
 Laboratory Release Number W207333
 Samples Collected by (Name) HAIG KEVORK
 Collection Date 7/14/2000
 Signature [Handwritten 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	Leak (Yes or No)	Analyses To Be Performed											Remarks				
								TPH Gas + STEK WATRE (8015)	TPH (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	OXYGENATES (6) 8260	1,2-DCA	EDB					
TB-LB	01A	1	W	G		HCL	YES	✓														Run silica gel	
U-1	02A-B	5	W	G	15:05	H ^c 4 VOA		✓	✓													clean-up on any Diesel hits.	
U-2	03	5	W	G	14:32			✓	✓														
U-3	04	5	W	G	12:51			✓	✓														
MW-4	05	5	W	G	14:02			✓	✓														
MW-5	06	5	W	G	13:30	✓	✓	✓	✓														

DO NOT BILL
TB-LB ANALYSIS

Relinquished By (Signature) <u>[Handwritten Signature]</u>	Organization <u>G-R Inc.</u>	Date/Time	Received By (Signature) <u>[Handwritten Signature]</u>	Organization <u>Seq</u>	Date/Time <u>7/17/2000</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <u>[Handwritten Signature]</u>	Organization <u>Seq</u>	Date/Time <u>7-17-2000</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Handwritten Signature]</u>		Date/Time <u>7/17/2000 16:20</u>	