GETTLER-RYAN INC.

TRANSMITTAL

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

DATE: May 29, 1998
G-R #: 180105

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 15, 1998	Groundwater Monitoring and Sampling Report First Quarter 1998-Event of February 12, 1998

COMMENTS:

At the request of Tosco Marketing Company, we are providing you a copy of the above referenced report. The site is monitored and sampled on an quarterly basis in February, May, August and November. If you have questions please contact the Tosco Project Manager, Ms. Tina R. Berry at (925) 277-2321.

Enclosure

cc: Mr. Doug Lee, Gettler-Ryan Inc., Dublin, CA

agency/3292trb.qmt

GETTLER-RYAN INC.

May 15, 1998
G-R Job #180105

Ms. Tina R. Berry
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: First Quarter 1998 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #3292
15008 East 14th Street
San Leandro, California

Dear Ms. Berry:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On February 12, 1998, field personnel monitored and sampled thirteen wells (MW-1 through MW-11, MW-2(SP) and MW-3(SP)) at the above referenced site. A joint monitoring event was conducted with the Former Mobil Facility #04-FGN, located at 14994 East 14th Street, San Leandro, California. Joint groundwater monitoring data are summarized in Table 3.

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. 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 Table 1, and a Concentration Map is included as Figure 2. Dissolved Oxygen Concentrations are summarized in Table 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: Dissolved Oxygen Concentrations
Table 3: Joint Groundwater Monitoring Data - Mobil Facility
Table 4: Joint Groundwater Monitoring Data - Chevron Facility
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

3292.qml

HESPERIAN BOULEVARD

MW-7
MW-8
MW-5
MW-1
MW-2
MW-3
MW-4
MW-6
MW-9
29.69
MW-8
29.55
MW-10
29.19
MW-11
28.91
MW-2
27.73

Dispenser Islands
Propane Tank
Underground Storage Tanks
Chevron Station Building
Waste Oil Tank
Parking
Prings Restaurant
Shadrall Associates Property (Former Liquor Barn Parking Lot)
Former Phillips Station
Quality Tune-up
150TH AVENUE
EAST 14TH STREET

SITE MONITORED SEMI-ANNUAL IN MAY AND NOVEMBER

Approximate groundwater flow direction at a gradient of 0.005 to 0.007 Ft./Ft.

29.04
MW-3
29.00
30.00
28.00

30.84
MW-7A
31.28
MW-4A
MW-6A
31.58
31.21
MW-3A
Former Underground Storage Tanks
MW-2A
31.03
Former Dispenser Islands
Former Mobil Station Building
Commercial Building
MW-7
31.07
MW-1A
31.11
31.00
Tiny's Automotive

Underground Storage Tanks
MW-2
30.14
MW-1
30.10
Dispenser Islands
MW-5
29.86
30.42
MW-3
MW-6
30.57
MW-6A
30.59
Unocal Station Building
31.29
MW-4
31.00
Waste Oil Tank

EXPLANATION

- Groundwater monitoring well (Unocal)
- Groundwater monitoring well (Shadrall Property)
- Groundwater monitoring well (Former Mobil)
- Groundwater monitoring well (Chevron)
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 Groundwater elevation contour, dashed where inferred.

N

0 50

Scale in Feet

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

FIGURE 1

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 3292
15008 East 14th Street
San Leandro, California

REVISED DATE

DATE February 12, 1998

REVIEWED BY

JOB NUMBER 180105

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

HESPERIAN BOULEVARD

150TH AVENUE

EAST 14TH STREET

MW-7
MW-8
MW-5
MW-1
MW-2
MW-4
MW-3
MW-6
MW-9
MW-10
MW-11
MW-7A
MW-6A
MW-4A
MW-3A
MW-2A
MW-1A
MW-5A

Former Phillips Station
Quality Tune-up
Propane Tank
Dispenser Islands
Underground Storage Tanks
Chevron Station Building
Waste Oil Tank
Parking
Former Underground Storage Tanks
Former Dispenser Islands
Former Mobil Station Building
Commercial Building
Tiny's Automotive
Prings Restaurant
Shadrall Associates Property (Former Liquor Barn Parking Lot)
Unocal Station Building

770/20/ND
820/23/18
3,200/ /100
6,200/ /420
440/10/13
670/12/1,400
5,500/ /ND
8,500/160/1,900
630/12/48
33,000/120/ND
56/0.59/2.7
ND/ND/ND
ND/ND/ND

EXPLANATION

- Groundwater monitoring well (Unocal)
- Groundwater monitoring well (Shadrall Property)
- Groundwater monitoring well (Former Mobil)
- Groundwater monitoring well (Chevron)
- A/B/C — TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- ND — Not Detected

N

0 50

Scale in Feet

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

FIGURE 2

CONCENTRATION MAP
Tosco (Unocal) Service Station No. 3292
15008 East 14th Street
San Leandro, California

DATE February 12, 1998

REVISED DATE

REVIEWED BY

JOB NUMBER 180105

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

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<----------ppb---------->					
MW-1	05/04/91			31,000	74	20	920	1,500	--
	09/19/91			26,000	130	16	1,300	1,800	--
	12/18/91			17,000	160	20	1,400	1,600	--
	03/17/92			23,000	320	19	1,000	940	--
	05/19/92			29,000	650	370	1,100	1,200	--
	08/20/92			18,000	230	22	640	950	--
	11/10/92			18,000	220	ND	690	830	--
	02/20/93			19,000	190	ND	880	620	--
	05/21/93			27,000	150	200	1,200	950	--
	08/23/93			24,000	160	110	840	810	--
	11/23/93			18,000	210	63	900	620	--
	02/24/94			18,000	74	30	940	480	--
	05/25/94 [3]			6,400	72	ND	170	67	--
	08/23/94			24,000	130	57	970	320	--
	11/23/94			23,000	180	44	970	270	--
	02/03/95			20,000	77	17	950	390	--
	05/10/95			16,000	230	27	880	630	--
	08/02/95			18,000	190	ND	860	590	--
	11/20/95 [4]			20,000	180	ND	960	450	970
	02/08/96			15,000	43	16	940	410	5,200
	05/08/96			16,000	37	16	930	410	1,600
	08/09/96			2,300	25	ND	77	39	1,200
	11/07/96			38,000	140	ND	1,900	5,600	ND
36.37	02/10-11/97	7.92	28.45	7,300	91	ND	170	68	1,700
	05/07/97	9.24	27.13	11,000	120	ND	470	110	1,200
	08/05/97	10.20	26.17	530 [1]	5.9	ND	5.6	ND	430
	11/04/97	10.71	25.66	4,100	50	7.0	64	14	97
	02/12/98	**6.27**	**30.10**	**8,500**	**160**	**ND [7]**	**550**	**ND [7]**	**1,900**
MW-2	05/04/91			19,000	6.6	1.4	460	630	--
	09/19/91			19,000	100	6.8	790	310	--
	12/18/91			10,000	110	5.1	420	96	--
	03/17/92			16,000	110	ND	730	220	--
	05/19/92			17,000	140	87	680	170	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<--------		ppb			-------->
MW-2	08/20/92			13,000	52	ND	660	70	--
(cont)	11/10/92			11,000	36	7.2	570	45	--
	02/20/93			1,500	2.9	3.8	9.1	ND	--
	05/21/93			9,500	37	ND	470	62	--
	08/23/93			15,000	110	ND	590	64	--
	11/23/93			11,000	80	10	480	20	--
	02/24/94 [5]			11,000	44	ND	580	32	--
	05/25/94			11,000	50	ND	400	22	--
	08/23/94			12,000	45	10	360	20	--
	11/23/94			15,000	61	24	440	ND	--
	02/03/95			9,700	5.7	ND	250	10	--
	05/10/95			7,500	56	4.7	310	33	--
	08/02/95			8,200	53	22	220	25	--
	11/02/95			5,000	56	4.5	170	7.7	110
	02/08/96			7,200	ND	ND	170	ND	ND
	05/08/96			8,400	5.6	9.0	170	10	130
	08/09/96			3,100	24	ND	80	ND	64
	11/07/96			36,000	140	ND	1,900	5,600	ND
36.34	02/10-11/97	7.75	28.59	4,600	27	ND	53	ND	ND
	05/07/97	9.14	27.20	5,300	61	ND	78	20	180
	08/05/97	10.23	26.11	3,100	35	ND	13	ND	58
	11/04/97	10.65	25.69	1,200	16	ND	11	25	53
	02/12/98	**6.20**	**30.14**	**630**	**12**	**ND [7]**	**7.3**	**ND [7]**	**48**
MW-3	05/04/91			9,100	2.0	ND	55	180	--
	09/19/91			7,600	ND	13	190	170	--
	12/18/91			5,900	54	6.4	110	64	--
	03/17/92			5,800	66	7.5	100	58	--
	05/19/92			3,400	25	3.6	66	41	--
	08/20/92			4,500	58	ND	65	35	--
	11/10/92			3,400	37	ND	85	34	--
	02/20/93			1,600	12	18	8.9	12	--
	05/21/93			2,600	42	ND	43	15	--
	08/23/93			2,900	25	ND	50	18	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<----------ppb---------->					
MW-3	11/23/93			2,300	34	ND	24	5.6	--
(cont)	02/24/94			3,400	46	ND	53	11	--
	05/25/94			1,400	20	ND	ND	ND	--
	08/23/94			2,900	37	49	14	2.9	--
	11/23/94			3,200	48	ND	22	ND	--
	02/03/95			780	13	ND	2.1	ND	--
	05/10/95			1,300	ND	ND	ND	ND	--
	08/02/95			1,500	6.3	ND	16	2.1	--
	11/02/95			1,100	5.2	2.1	7.4	0.5	15
	02/08/96			450	ND	ND	ND	ND	ND
	05/08/96			590	ND	11	10	ND	ND
	08/09/96			ND	ND	ND	ND	ND	ND
	11/07/96			140	1.2	ND	ND	ND	5.6
36.42	02/10-11/97	7.71	28.71	89	1.8	ND	ND	ND	ND
	05/07/97	9.17	27.25	52 [2]	ND	ND	ND	5.1	5.1
	08/05/97	10.27	26.15	ND	ND	ND	ND	ND	ND
	11/04/97	10.83	25.59	93	1.8	ND	ND	ND	6.2
	02/12/98	**6.00**	**30.42**	**56**	**0.59**	**ND**	**ND**	**ND**	**2.7**
MW-4	05/04/91			6,300	ND	ND	2.8	61	--
	09/19/91			1,800	0.83	ND	54	46	--
	12/18/91			2,500	28	2.5	54	22	--
	03/17/92			1,800	3.7	1.4	90	21	--
	05/19/92			2,000	20	3.5	42	8.3	--
	08/20/92			1,000	15	ND	11	3.0	--
	11/10/92			690	9.1	ND	16	2.8	--
	02/20/93			2,400	40	2.1	33	ND	--
	05/21/93			1,900	31	ND	20	4.5	--
	08/23/93			1,200	5.0	ND	16	ND	--
	11/23/93			720	10	ND	8.7	ND	--
	02/24/94			1,300	8.9	ND	20	ND	--
	05/25/94			1,700	22	ND	4.5	ND	--
	08/23/94			690	9.2	1.3	7.1	1.9	--
	11/23/94			420	5.0	1.1	4.2	1.2	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<----------ppb---------->					
MW-4	02/03/95			620	6.4	ND	9.3	ND	--
(cont)	05/10/95			280	2.8	ND	2.7	2.4	--
	08/02/95			290	3.6	ND	2.8	ND	--
	11/02/95			42,000	390	210	2,800	6,300	270
	02/08/96			130	2.1	ND	1.5	0.69	ND
	05/08/96	INACCESSIBLE	--	--	--	--	--	--	--
	08/09/96			ND	ND	ND	ND	ND	ND
	11/07/96			ND	ND	ND	ND	ND	ND
37.04	02/10-11/97	8.45	28.59	ND	ND	ND	ND	ND	ND
	05/07/97	9.85	27.19	ND	ND	ND	ND	ND	ND
	08/05/97	11.04	26.00	50	0.76	ND	ND	ND	ND
	11/04/97	11.46	25.58	ND	ND	ND	ND	ND	ND
	02/12/98	**5.75**	**31.29**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
MW-5	05/04/91			69,000	1,400	2,500	3,500	15,000	--
	09/19/91			57,000	1,600	2,700	5,200	20,000	--
	12/18/91			31,000	1,600	3,100	4,800	19,000	--
	03/17/92			81,000	850	1,600	4,800	18,000	--
	05/19/92			84,000	760	1,500	4,000	17,000	--
	08/20/92			58,000	660	1,700	4,200	19,000	--
	11/10/92			57,000	800	1,800	4,400	18,000	--
	02/20/93			17,000	75	ND	1,000	620	--
	05/21/93			55,000	ND	160	3,500	12,000	--
	08/23/93			61,000	340	380	3,600	14,000	--
	11/23/93			46,000	290	310	4,100	15,000	--
	02/24/94			57,000	140	400	4,400	16,000	--
	05/25/94			53,000	ND	ND	4,000	14,000	--
	08/23/94			61,000	360	380	4,800	17,000	--
	11/23/94			46,000	230	260	3,900	14,000	--
	02/03/95			56,000	140	330	3,500	13,000	--
	05/10/95			27,000	160	170	2,200	5,200	--
	08/02/95			65,000	260	300	3,500	12,000	--
	11/02/95			240	0.76	ND	1.1	ND	ND
	02/08/96			54,000	210	150	3,400	12,000	170

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<--------		ppb			-------->
MW-5	05/08/96			52,000	170	200	3,600	11,000	170
(cont)	08/09/96			25,000	54	16	1,700	4,700	ND
	11/07/96			2,100	42	ND	9.3	ND	2,300
35.94	02/10-11/97	7.63	28.31	15,000	46	29	1,400	4,100	ND
	05/07/97	8.98	26.96	38,000	120	ND	2,000	5,100	380
	08/05/97	11.08	24.86	310	1.0	ND	17	40	ND
	11/04/97	10.72	25.22	20,000	ND	ND	1,500	2,800	280
	02/12/98	**6.08**	**29.86**	**33,000**	**120**	**ND** [7]	**1,700**	**3,800**	**ND** [7]
MW-6	05/19/92			1,300	2.0	2.1	ND	2.7	--
	08/20/92			280	8.4	ND	0.51	0.84	--
	11/10/92			490	7.0	1.2	1.7	ND	--
	02/20/93			2,400	43	ND	33	2.0	--
	05/21/93			940	18	1.0	7.1	2.7	--
	08/23/93			1,000	9.4	2.3	5.0	2.3	--
	11/23/93			520	ND	1.7	1.9	0.82	--
	02/24/94 [5]			810	12	ND	2.6	0.77	--
	05/25/94			500	11	ND	ND	0.73	--
	08/23/94			570	8.8	2.5	3.2	2.6	--
	11/23/94			460	6.4	1.1	1.9	1.1	--
	02/03/95			660	4.8	13	1.4	ND	--
	05/10/95			470	ND	0.65	1.4	0.67	--
	08/02/95			360	3.2	ND	1.6	ND	--
	11/02/95			470	ND	0.92	0.89	0.58	5.5
	02/08/96			450	3.1	ND	1.1	0.68	ND
	05/08/96			ND	ND	ND	ND	ND	ND
	08/09/96			ND	ND	ND	ND	ND	ND
	11/07/96			ND	ND	ND	ND	ND	ND
35.67	02/10-11/97	6.88	28.79	ND	ND	ND	ND	ND	ND
	05/07/97	8.32	27.35	ND	ND	1.1	ND	ND	ND
	08/05/97	9.64	26.03	55	0.79	ND	ND	ND	ND
	11/04/97	10.30	25.37	ND	ND	ND	ND	ND	ND
	02/12/98	**5.10**	**30.57**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<----------ppb---------->					
MW-7	05/19/92			17,000	540	90	1,200	1,900	--
	08/20/92			13,000	460	54	ND	3,100	--
	11/10/92			1,800	74	ND	230	350	--
	02/20/93			1,800	37	4.6	11	7.7	--
	05/21/93			22,000	330	37	2,100	2,900	--
	08/23/93			33,000	360	ND	2,500	4,300	--
	11/23/93			19,000	310	30	2,500	2,300	--
	02/24/94 [5]			16,000	220	19	2,400	3,200	--
	05/25/94			14,000	200	ND	1,500	1,800	--
	08/23/94			19,000	210	50	2,000	2,800	--
	11/23/94			10,000	220	ND	1,000	730	--
	02/03/95			26,000	170	ND	2,300	3,700	--
	05/10/95			1,300	13	1.5	170	230	--
	08/02/95			15,000	200	ND	2,200	2,000	--
	11/02/95			18,000	190	9.4	2,100	2,200	72
	02/08/96			19,000	150	ND	2,100	3,000	ND
	05/08/96			13,000	130	18	1,900	1,600	85
	08/09/96			11,000	67	ND	1,700	1,800	ND
	11/07/96			32,000	160	ND	3,300	8,400	570
36.09	02/10-11/97	7.22	28.87	7,100	55	ND	ND	620	ND
	05/07/97	8.47	27.62	6,000	74	ND	560	330	250
	08/05/97	10.25	25.84	5,000	66	ND	420	240	ND
	11/04/97	10.69	25.40	20,000	67	ND	2,300	4,300	430
	02/12/98	**5.02**	**31.07**	**5,500**	**95**	**ND [7]**	**150**	**110**	**ND [7]**
MW-8	05/19/92			5,300	28	3.3	2.6	2.1	--
	08/20/92			3,500 [1]	67	11	ND	ND	--
	11/10/92			1,800	20	ND	ND	ND	--
	02/20/93			2,200	32	ND	42	5.0	--
	05/21/93			2,500	44	ND	ND	ND	--
	08/23/93			280 [1]	49	4.5	ND	ND	--
	11/23/93			1,800	ND	3.4	ND	ND	--
	02/24/94			1,200	10	2.3	ND	3.2	--
	05/25/94			14,000	29	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<--------		ppb			-------->
MW-8	08/23/94			3,200	46	18	2.0	7.2	--
(cont)	11/23/94			1,700	34	ND	ND	3.1	--
	02/03/95			800	6.1	ND	ND	ND	--
	05/10/95			1,400	15	1.5	0.65	0.84	--
	08/02/95			690	8.3	1.9	ND	ND	--
	11/02/95			1,200	ND	1.9	0.56	ND	6.4
	02/14/96 [6]			650	9.0	1.2	ND	0.52	ND
	05/08/96			1,200	0.7	35	2.2	3.0	ND
	08/09/96			350	ND	12	0.81	0.95	ND
	11/07/96			1,000	23	ND	ND	ND	ND
36.89	02/10-11/97	8.84	28.05	630	13	ND	ND	8.1	ND
	05/07/97	10.12	26.77	1,200 [1]	26	3.4	ND	20	20
	08/05/97	11.26	25.63	590 [1]	9.8	ND	ND	ND	ND
	11/04/97	11.58	25.31	640	14	1.9	5.7	11	ND
	02/12/98	**7.34**	**29.55**	**770** [8]	**20**	**3.0**	**ND** [7]	**ND** [7]	**ND** [7]
MW-9	05/19/92			8,100	11	ND	25	5.8	--
	08/20/92			3,800 [1]	37	ND	ND	ND	--
	11/10/92			4,200	ND	ND	21	23	--
	02/20/93			2,300	47	ND	32	ND	--
	05/21/93			3,200	32	ND	8.1	ND	--
	08/23/93			3,000	29	ND	ND	ND	--
	11/23/93			2,500	23	2.1	ND	ND	--
	02/24/94			2,900	35	ND	ND	ND	--
	05/25/94			ND	ND	ND	ND	ND	--
	08/23/94			2,800	28	32	ND	ND	--
	11/23/94			2,000	24	2.2	2.2	2.5	--
	02/03/95			2,100	26	2.5	ND	ND	--
	05/10/95			1,700	0.81	2.2	1.0	1.4	--
	08/02/95			1,900	26	6.6	ND	3.9	--
	11/02/95			1,600	ND	1.3	ND	ND	11
	02/08/96			1,900	ND	ND	ND	ND	ND

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<-------	-------	ppb	-------	-------	------->
MW-9	05/08/96			1,700	1.9	22	1.7	2.7	ND
(cont)	08/09/96			200	ND	4.5	ND	0.58	ND
	11/07/96			920	24	ND	ND	ND	ND
36.29	02/10-11/97	8.15	28.14	580	14	2.4	ND	ND	16
	05/07/97	9.45	26.84	810	11	3.9	1.7	9.9	13
	08/05/97	10.70	25.59	850 [1]	21	ND	ND	ND	33
	11/04/97	11.05	25.24	730	11	ND	5.1	11	ND
	02/12/98	**6.60**	**29.69**	**820** [8]	**23**	**3.2**	**ND** [7]	**ND** [7]	**18**
MW-10	08/20/92			15,000	230	ND	1,000	350	--
	11/10/92			15,000	300	42	3,500	330	--
	02/20/93			17,000	74	ND	1,000	620	--
	05/21/93			23,000	250	ND	3,000	240	--
	08/23/93			20,000	230	13	3,200	140	--
	11/23/93			18,000	300	10	2,800	110	--
	02/24/94			15,000	330	19	2,000	83	--
	05/25/94			14,000	240	ND	230	62	--
	08/23/94			16,000	250	41	1,800	74	--
	11/23/94			16,000	260	ND	1,600	49	--
	02/03/95			17,000	310	ND	1,500	93	--
	05/10/95			12,000	260	16	1,200	54	--
	08/02/95			8,900	240	ND	780	40	--
	11/02/95			9,300	190	ND	470	1.7	110
	02/08/96			9,700	170	ND	440	ND	ND
	05/08/96			7,100	100	ND	240	ND	43
	08/09/96			4,400	59	7.5	110	6.5	73
	11/07/96			6,300	65	ND	110	ND	130
36.04	02/10-11/97	8.10	27.94	6,800	91	ND	100	ND	210
	05/07/97	9.28	26.76	4,800	76	ND	50	ND	160
	08/05/97	10.51	25.53	4,200	52	ND	40	ND	81
	11/04/97	11.02	25.02	4,500	49	ND	63	ND	84
	02/12/98	**6.85**	**29.19**	**6,200**	**98**	**ND** [7]	**91**	**ND** [7]	**420**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<----------ppb---------->					
MW-11	08/20/92			4,600 [1]	62	ND	ND	54	--
	11/10/92			5,800	130	ND	260	42	--
	02/20/93			18,000	76	ND	1,000	630	--
	05/21/93			7,100	64	ND	340	120	--
	08/23/93			5,400	68	ND	230	43	--
	11/23/93			3,400	105	ND	120	43	--
	02/24/94			4,600	170	ND	140	36	--
	05/25/94			1,400	49	ND	26	ND	--
	08/23/94			7,300	250	13	150	42	--
	11/23/94			5,800	250	10	120	22	--
	02/03/95			4,400	110	ND	150	37	--
	05/10/95			4,200	120	ND	170	38	--
	08/02/95			4,200	110	ND	110	22	--
	11/02/95			6,100	150	ND	78	6.8	6,200
	02/14/96 [6]			3,100	60	ND	98	ND	4,000
	05/08/96			3,500	120	ND	160	ND	6,400
	08/09/96			1,100	42	ND	15	ND	4,300
	11/07/96			2,900	57	ND	13	ND	3,400
35.50	02/10-11/97	7.88	27.62	600	9.5	ND	ND	ND	3,100
	05/07/97	9.07	26.43	1,900	45	ND	31	ND	2,400
	08/05/97	10.23	25.27	2,100	35	ND	24	ND	1,800
	11/04/97	10.51	24.99	98	1.6	ND	ND	ND	ND
	02/12/98	**6.59**	**28.91**	**670**	**12**	**ND [7]**	**ND [7]**	**ND [7]**	**1,400**
MW-2(SP)	05/08/96			540	0.68	21	1.0	1.7	ND
	08/09/96			170	ND	7.8	ND	ND	ND
	11/07/96			430	8.9	1.5	ND	ND	10
35.44	02/10-11/97	8.63	26.81	230 [2]	4.6	1.0	ND	ND	10
	05/07/97	9.58	25.86	ND	ND	ND	ND	ND	14
	08/05/97	10.62	24.82	360	5.5	50	ND	ND	ND
	11/04/97	11.06	24.38	280	2.9	13	ND	0.54	ND
	02/12/98	**7.71**	**27.73**	**440 [8]**	**10**	**1.6**	**ND**	**0.69**	**13**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Satiation #3292

15008 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G)	B	T	E	X	MTBE
				<--------		*ppb*			-------->
MW-3(SP)	05/08/96			4,700	7.9	36	13	4.0	42
	08/09/96			2,000	ND	14	7.6	ND	ND
	11/07/96			1,800	29	ND	ND	ND	40
35.81	02/10-11/97	8.16	27.65	3,500	70	14	ND	ND	150
	05/07/97	9.35	26.46	3,100	48	ND	ND	ND	110
	08/05/97	10.44	25.37	3,200	43	5.7	ND	ND	61
	11/04/97	10.90	24.91	2,600	34	ND	ND	ND	53
	02/12/98	**6.77**	**29.04**	**3,200**	**62**	**ND** [7]	**ND** [7]	**ND** [7]	**100**
Trip Blank									
TB-LB	**02/12/98**	--	--	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

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

EXPLANATIONS:

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

TOC = Top of Casing elevation
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
msl = Relative to mean sea level
TPH(G) = Total Petroleum Hydrocarbons as Gasoline

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

ppb = Parts per billion
ND = Not Detected
-- = Not Measured/Not Analyzed
(SP) = Shadrall Property wells

* TOC elevations are relative to Mean Sea Level (msl), per a Benchmark located at the northwest corner of East 14th Street and 150th Avenue (Elevation = 36.88 feet msl). TOC elevations for MW-2(SP) and MW-3(SP) are relative to msl, per Chevron monitoring well MW-6 used as a benchmark (Elevation = 36.92 feet msl).

1 Laboratory report indicates that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
2 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
3 The analytical results of the groundwater were inconsistent with the previous analytical results for this well. The laboratory re-analyzed the sample past hold time; therefore the results may be biased low.
4 The monitoring well was resampled on November 20, 1995. The vial containing the water sample collected from this well on November 2, 1995, was inadvertently broken by the laboratory.
5 All EPA Method 8010 constituents were ND.
6 The monitoring wells MW-8 and MW-11 were resampled on February 14, 1996. The vials containing the water samples collected from the wells on February 8, 1996, were inadvertently broken by the laboratory.
7 Detection limit raised. Refer to analytical results.
8 Laboratory report indicates gasoline and unidentified hydrocarbons < C7.

Depth to water and groundwater elevation history will be updated in future reports.

Table 2

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #3292

15008 East 14th Street

San Leandro, California

Well ID	Date	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-1	11/02/95	1.80	2.83	--
	02/08/96	--	2.58	--
	05/08/96	--	--	1.92
	08/09/96	--	2.14	--
	11/07/96	--	2.11	2.18
	02/11/97	--	--	2.05
	08/05/97	--	--	1.88
	11/04/97	--	--	2.67
	02/12/98	**--**	**2.38**	**--**
MW-2	11/02/95	2.30	2.80	--
	02/08/96	--	2.21	--
	05/08/96	--	--	3.89
	08/09/96	--	3.36	--
	11/07/96	--	1.96	1.98
	02/11/97	--	--	2.12
	08/05/97	--	--	2.38
	11/04/97	--	--	2.18
	02/12/98	**--**	**2.04**	**--**
MW-3	11/02/95	2.20	4.98	--
	02/08/96	--	2.78	--
	05/08/96	--	--	3.73
	08/09/96	--	3.29	--
	11/07/96	--	3.15	3.98
	02/10/97	--	--	3.59
	08/05/97	--	--	2.86
	11/04/97	--	--	2.95
	02/12/98	**--**	**3.12**	**--**
MW-4	11/02/95	3.00	7.91	--
	02/08/96	--	2.66	--
	05/08/96	--	--	--
	08/09/96	--	2.92	--
	11/07/96	--	4.32	4.38
	02/10/97	--	--	3.87
	08/05/97	--	--	5.12
	11/04/97	--	--	3.98
	02/12/98	**--**	**4.88**	**--**
MW-5	11/02/95	3.00	2.30	--
	02/08/96	--	2.35	--
	05/08/96	--	--	1.29
	08/09/96	--	2.19	--
	11/07/96	--	1.84	1.82
	02/10/97	--	--	2.07
	08/05/97	--	--	2.36
	11/04/97	--	--	1.99
	02/12/98	**--**	**1.79**	**--**

Table 2

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #3292

15008 East 14th Street

San Leandro, California

Well ID	Date	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-6	11/02/95	3.80	4.55	--
	02/08/96	--	3.77	--
	05/08/96	--	--	3.40
	08/09/96	--	3.53	--
	11/07/96	--	3.99	4.06
	02/10/97	--	--	3.85
	08/05/97	--	--	5.37
	11/04/97	--	--	3.67
	02/12/98	**--**	**4.05**	**--**
MW-7	11/02/95	--	--	--
	02/08/96	--	2.67	--
	05/08/96	--	--	2.20
	08/09/96	--	2.37	--
	11/07/96	--	2.22	2.28
	02/11/97	--	--	2.33
	08/05/97	--	--	2.69
	11/04/97	--	--	2.82
	02/12/98	**--**	**3.24**	**--**
MW-8	11/02/95	--	--	--
	02/08/96	--	3.85	--
	05/08/96	--	--	2.09
	08/09/96	--	2.56	--
	11/07/96	--	1.67	1.84
	02/10/97	--	--	2.10
	08/05/97	--	--	3.04
	11/04/97	--	--	2.11
	02/12/98	**--**	**1.98**	**--**
MW-9	11/02/95	--	--	--
	02/08/96	--	3.62	--
	05/08/96	--	--	2.20
	08/09/96	--	2.51	--
	11/07/96	--	2.06	2.02
	02/10/97	--	--	1.96
	08/05/97	--	--	2.57
	11/04/97	--	--	2.60
	02/12/98	**--**	**2.27**	**--**
MW-10	11/02/95	3.10	3.96	--
	02/08/96	--	2.88	--
	05/08/96	--	--	2.71
	08/09/96	--	2.63	--
	11/07/96	--	1.81	1.84
	02/10/97	--	--	2.03
	08/05/97	--	--	2.78
	11/04/97	--	--	2.11
	02/12/98	**--**	**2.63**	**--**

Table 2

Dissolved Oxygen Concentrations

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

Well ID	Date	@ Laboratory (mg/L)	Before Purging (mg/L) ♦	After Purging (mg/L) ♦
MW-11	11/02/95	2.60	3.55	--
	02/08/96	--	2.19	--
	05/08/96	--	--	2.06
	08/09/96	--	2.11	--
	11/07/96	--	2.35	2.36
	02/10/97	--	--	2.18
	08/05/97	--	--	3.19
	11/04/97	--	--	2.01
	02/12/98	--	**2.44**	--
MW-2 (SP)[1]	11/07/96	--	2.85	2.80
	02/11/97	--	--	2.73
	08/05/97	--	--	3.99
	11/04/97	--	--	3.06
	02/12/98	--	**3.11**	--
MW-3 (SP)[1]	11/07/96	--	2.41	2.40
	02/11/97	--	--	2.55
	08/05/97	--	--	3.74
	11/04/97	--	--	2.95
	02/12/98	--	**3.17**	--

EXPLANATIONS:

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

♦ = Measurement taken in field.
-- = Not Measured/Not Analyzed
SP = Shadrall Property wells

[1] Wells located on Shadrall Property.

Table 3

Joint Groundwater Monitoring Data

Former Mobil Facility #04-FGN

14994 East 14th Street

San Leandro, California

Well ID/ TOC*	Date	DTW (ft)	GWE (msl)
MW-1A			
36.63	**02/12/98**	**5.52**	**31.11**
MW-2A			
36.62	**02/12/98**	**5.59**	**31.03**
MW-3A			
36.93	**02/12/98**	**5.72**	**31.21**
MW-4A			
37.18	**02/12/98**	**5.90**	**31.28**
MW-5A			
35.91	**02/12/98**	**5.32**	**30.59**
MW-6A			
37.10	**02/12/98**	**5.52**	**31.58**
MW-7A			
37.39	**02/12/98**	**6.55**	**30.84**

EXPLANATIONS:

Groundwater monitoring data provided by Alton GeoScience.

TOC = Top of Casing elevation
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
msl = Relative to mean sea level

* TOC elevations have been surveyed relative to msl.

Table 4

Joint Groundwater Monitoring Data

Chevron Service Station

San Leandro, California

Well ID/ TOC*	Date	DTW (ft)	GWE (msl)
MW-1			
35.77	11/04/97	11.35	24.42
MW-2			
35.00	11/04/97	10.70	24.30
MW-3			
36.17	11/04/97	11.75	24.42
MW-4			
36.05	11/04/97	11.47	24.58
MW-5			
35.65	11/04/97	11.17	24.48
MW-6			
36.92	11/04/97	12.42	24.50
MW-7			
35.71	11/04/97	11.01	24.70
MW-8			
35.28	11/04/97	10.63	24.65
MW-A			
NA	11/04/97	11.45	NA

EXPLANATIONS:

Groundwater monitoring data provided by Blaine Tech Services, Inc.
Site is monitored semi-annually.

TOC = Top of Casing elevation
DTW = Depth to Water
(ft.) = Feet

GWE = Groundwater Elevation
msl = Relative to mean sea level
NA = Not Available

* TOC elevations have been surveyed relative to msl.

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 a MMC flexi-dip interface probe or equivalent. 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, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured 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.

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 # 3292 Job#: 180105

Address: 15008 E. 14th st. Date: 2-12-98

City: San Leandro Sampler: Joe

Well ID mw-1 Well Condition: O.K

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 18.94 ft.

Depth to Water 6.27 ft.

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

12.67 X VF 0.17 = 2.15 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment:
- (Disposable Bailer)
- Bailer
- Stack
- Suction
- Grundfos
- Other: ____

Sampling Equipment:
- (Disposable Bailer)
- Bailer
- Pressure Bailer
- Grab Sample
- Other: ____

Starting Time: 2:00 Weather Conditions: rainy/cloudy

Sampling Time: 2:35 p.m. Water Color: clear Odor: considerable

Purging Flow Rate: 0.7 gpm. Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X 1000	Temperature F.	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
2:10	0	7.38	2.39	66.2	2.38		
2:13	2	7.30	2.46	65.8			
2:17	4	7.30	2.50	65.7			
2:20	6.5	7.31	2.43	65.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: ____

9/97-fieldat.frm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th st. Date: 2-12-97

City: San Leandro Sampler: Joe

Well ID mw-2 Well Condition: O.K - padlock

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 19.10 ft.

Depth to Water 6.20 ft.

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

12.9 X VF 0.17 = 2.19 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: ____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: ____

Starting Time: 1:20 Weather Conditions: Rainy

Sampling Time: 1:45 P.M Water Color: Clear Odor: considerable

Purging Flow Rate: 0.7 gpm. Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm x 100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:25	0	7.10	3.05	65.9	2.04		
1:28	2	6.96	3.18	65.6			
1:31	4	6.84	3.22	65.8			
1:35	6.5	6.95	3.24	65.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 VOA	Y	HCL	SEQ.	TPHG, BTEX, MTBE

COMMENTS: Replaced padlock -

9/97-fieldat.frm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-98

City: San Leandro Sampler: Joe

Well ID MW-3 Well Condition: O.K.

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 22.13 ft.

Depth to Water 6.00 ft.

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

16.13 X VF 0.17 = 2.74 X 3 (case volume) = Estimated Purge Volume: 9 (gal.)

Purge Equipment:
Disposable Bailer
Bailer
Stack
(Suction)
Grundfos
Other: ____

Sampling Equipment:
(Disposable Bailer)
Bailer
Pressure Bailer
Grab Sample
Other: ____

Starting Time: 8:30 Weather Conditions: Rainy

Sampling Time: 8:58 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)
8:37	0	7.63	4.12	65.0	3.12		
8:40	3	7.21	4.23	68.4			
4:43	6	7.21	4.20	68.6			
8:46	9	7.19	4.19	68.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: ____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E-14th st. Date: 2-12-99

City: San Leandro Sampler: Joe

Well ID MW-4 Well Condition: O.K

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 19.63 ft

Depth to Water 5.75 ft

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

13.88 X VF 0.17 = 2.36 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: ____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: ____

Starting Time: 7:45 Weather Conditions: rainy

Sampling Time: 8:15 A.M Water Color: clear Odor: None

Purging Flow Rate: 0.6 gpm Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
7:50	0	8.00	5.85	66.2	4.88		
7:54	2.5	7.63	5.82	65.4			
7:58	5	7.50	5.76	65.1			
8:02	7	7.47	5.71	65.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: ____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-98

City: San Leandro Sampler: Joe

Well ID MW-5 Well Condition: O.K.

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 22.07 ft.

Depth to Water 6.08 ft.

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

15.99 X VF 0.17 = 2.72 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: 11:45 Weather Conditions: rainy

Sampling Time: 12:16 P.M. Water Color: clear Odor: Considerable

Purging Flow Rate: 1 gpm. Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm x1000	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:53	0	7.22	1.87	65.8	1.79		
11:58	3	7.17	1.59	68.6			
12:02	6	7.15	1.52	68.1			
12:05	8.5	7.09	1.51	68.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 x VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: ____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-97

City: San Leandro Sampler: Joe

Well ID MW-6 Well Condition: O.K.

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 20.10 ft.

Depth to Water 5.10 ft.

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

15 X VF 0.17 = 2.55 X 3 (case volume) = Estimated Purge Volume: 8 (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: ____

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

Starting Time: 9:20 Weather Conditions: rainy

Sampling Time: 9:45 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 X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:25	0	7.68	6.27	68.5	4.05		
9:28	2.5	7.17	5.63	68.4			
9:30	5	7.35	5.74	68.5			
9:33	8	7.30	5.76	69.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: ____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-98

City: San Leandro Sampler: Joe

Well ID MW-7 Well Condition: Christy box cover can't be secured. All bolts are broken in threads.

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 21.08 ft.

Depth to Water 5.02 ft.

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

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

Purge Equipment: Disposable Bailer / Bailer / Stack / (Suction) / Grundfos / Other: ____

Sampling Equipment: (Disposable Bailer) / Bailer / Pressure Bailer / Grab Sample / Other: ____

Starting Time: 12:35 Weather Conditions: rainy

Sampling Time: 1:07 P.M. Water Color: clear Odor: Some

Purging Flow Rate: 1 gpm. Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X/100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:45	0	7.36	2.94	69.5	3.24		
12:48	3	7.45	3.02	69.2			
12:52	5	7.48	2.84	68.9			
12:55	8.5	7.46	2.74	69.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 VOA	Y	HCL	SEQ.	TPHG, BTEX, MTBE

COMMENTS: Replaced pad lock

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-98

City: San Leandro Sampler: Joe

Well ID MW-8 Well Condition: O, K

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 19.00 ft.

Depth to Water 7.34 ft.

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

11.66 X VF 0.17 = 1.98 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: (Disposable Bailer) ~~Bailer~~ Stack Suction Grundfos Other: ____

Sampling Equipment: (Disposable Bailer) Bailer Pressure Bailer Grab Sample Other: ____

Starting Time: 2:45 Weather Conditions: Rainy

Sampling Time: 3:13 P.M Water Color: Clear Odor: Faint

Purging Flow Rate: 0.7 gpm. Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
2:58	0	7.89	2.67	66.2	1.98		
3:02	2	7.26	2.66	65.1			
3:04	4	7.30	2.57	65.3			
3:08	6	7.25	2.63	65.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 VOA	Y	HCl	SEQ.	TPHG, BTEX & MTBE

COMMENTS: ____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-98

City: San Leandro Sampler: Joe

Well ID MW-9 Well Condition: O.K.

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 19.03 ft.

Depth to Water 6.60 ft.

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

12.43 X VF 0.17 = 2.11 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: ____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: ____

Starting Time: 3:35 Weather Conditions: Rainy

Sampling Time: 4:05 P.M. Water Color: clear Odor: Some

Purging Flow Rate: 0.7 gpm Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X 100	Temperature °C °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
3:42	0	7.18	2.67	65.5	2.27		
3:44	2	7.15	2.72	65.4			
3:48	4	7.12	2.74	65.6			
3:52	6.5	7.12	2.75	65.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: ____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-99

City: San Leandro Sampler: Joe

Well ID MW-10 Well Condition: @.1<

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 19.83 ft.

Depth to Water 6.85 ft.

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

12.98 X VF 0.17 = 2.21 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: ____

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

Starting Time: 10:50 Weather Conditions: Sporadic rain

Sampling Time: 11:18 A.M Water Color: clear Odor: faint

Purging Flow Rate: 0.8 gpm. Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:57	0	7.47	3.07	65.0	2.63		
11:00	2.5	7.37	2.95	65.0			
11:04	5	7.26	2.92	65.0			
11:08	7	7.25	2.91	65.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: Replaced padlock -

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th st. Date: 2-12-97

City: San Leandro Sampler: Jim

Well ID MW-11 Well Condition: O.K

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 18.90 ft.

Depth to Water 6.59 ft.

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

12.31 X VF 0.17 = 2.09 X 3 (case volume) = Estimated Purge Volume: 6.5 (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: rainy

Sampling Time: 10:40 AM Water Color: clear Odor: quite

Purging Flow Rate: 0.8 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)
10:22	0	7.10	2.29	65.7	2.44		
	2	7.06	2.32	65.6			
	4	7.14	2.34	65.4			
10:30	6.5	7.15	2.37	65.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	3 VOA	Y	HCl	SEQ.	TPHG, BTEX, MTBE

COMMENTS: ____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 180105

Address: 15008 E. 14th St. Date: 2-12-98

City: San Leandro Sampler: Joe

Well ID MW-2(SP) Well Condition: 2, 1C

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 20.88 ft.

Depth to Water 7.71 ft.

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

13.17 X VF 0.17 = 2.24 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: ____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: ____

Starting Time: 4:45 Weather Conditions: Heavy rain

Sampling Time: 5:15 P.M. Water Color: None Odor: None

Purging Flow Rate: 0.7 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)
4:52	0	7.82	4.93	66.0	3.11		
4:55	2.5	7.27	4.07	66.1			
4:58	5	7.26	4.72	65.9			
5:03	7	7.26	4.77	65.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2(SP)	3 VOA	Y	HCL	SEQ.	TPHG, BTEX

COMMENTS: Shandrell Property well.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3292 Job#: 18105

Address: 15008 E. 14th St Date: 2-12-97

City: San Leandro Sampler: Joe

Well ID MW-3(SP) Well Condition: O.K

Well Diameter 2 in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 20.68 ft.

Depth to Water 6.77 ft.

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

13.91 X VF 0.17 = 2.36 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: ____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: ____

Starting Time: 4:15 Weather Conditions: Heavy rain

Sampling Time: 4:37 P.M. Water Color: Clear Odor: None

Purging Flow Rate: 0.7 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)
4:20	0	7.44	3.67	65.3	3.17		
4:23	2.5	7.34	3.66	65.3			
4:27	5	7.30	4.02	65.4			
4:30	7	7.30	4.10	65.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3(SP)	3 VOA	Y	HCl	SEQ	TPHG, BTEX, MTBE

COMMENTS: Standard Property well

Chain-of-Custody-Record

TOSCO

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

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

Contact (Name): Ms. Tina R. Berry
(Phone): (510) 277-2321
Laboratory Name: Sequoia Analytical
Laboratory Release Number:
Samples Collected by (Name): JOE AJEMIAN
Collection Date: 2-12-98
Signature: Joe Ajemian

Analyses To Be Performed: 9802A47

DO NOT BILL TB-LB ANALYSIS

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
TB-LB	1	1voA	W	—	—	HCL	Yes	✓												
MW-1	2	3voA	W	G	2:35 P.M	HCL	✓	✓												
MW-2	3	✓	✓	✓	1:45 P.M	✓	✓	✓												
MW-3	4	✓	✓	✓	8:58 A.M	✓	✓	✓												
MW-4	5	✓	✓	✓	8:15 A.M	✓	✓	✓												
MW-5	6	✓	✓	✓	12:16 P.M	✓	✓	✓												
MW-6	7	✓	✓	✓	9:45 A.M	✓	✓	✓												
MW-7	8	✓	✓	✓	1:07 P.M	✓	✓	✓												
MW-8	9	✓	✓	✓	3:48 P.M	✓	✓	✓												
MW-9	10	✓	✓	✓	4:05 P.M	✓	✓	✓												
MW-10	11	✓	✓	✓	11:18 A.M.	✓	✓	✓												
MW-11	12	✓	✓	✓	10:40 A.M	✓	✓	✓												
MW-2(SP)	13	✓	✓	✓	5:15 P.M	✓	✓	✓												
MW-3(SP)	14	✓	✓	✓	4:37 P.M	✓	✓	✓												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Joe Ajemian	G-R Inc.	2-12-98 7:30 P.M			
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
			[illegible]		2-12-98 1530

Turn Around Time (Circle Choice)

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: TB-LB	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-01	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-1	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-02	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**8500**
Methyl t-Butyl Ether	**250**	**1900**
Benzene	**50**	**160**
Toluene	50	N.D.
Ethyl Benzene	**50**	**550**
Xylenes (Total)	50	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

Mike Gregory
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-2	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-03	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**250**	**630**
Methyl t-Butyl Ether	**12**	**48**
Benzene	**2.5**	**12**
Toluene	2.5	N.D.
Ethyl Benzene	**2.5**	**7.3**
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-3	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-04	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**56**
Methyl t-Butyl Ether	**2.5**	**2.7**
Benzene	**0.50**	**0.59**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-4	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-05	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-5	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-06	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**33000**
Methyl t-Butyl Ether	250	N.D.
Benzene	**50**	**120**
Toluene	50	N.D.
Ethyl Benzene	**50**	**1700**
Xylenes (Total)	**50**	**3800**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-6	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-07	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	105

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-7	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-08	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**5500**
Methyl t-Butyl Ether	250	N.D.
Benzene	**50**	**95**
Toluene	50	N.D.
Ethyl Benzene	**50**	**150**
Xylenes (Total)	**50**	**110**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-8	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-09	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**250**	**770**
Methyl t-Butyl Ether	12	N.D.
Benzene	**2.5**	**20**
Toluene	**2.5**	**3.0**
Ethyl Benzene	2.5	N.D.
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**<C7**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-9	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-10	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**820**
Methyl t-Butyl Ether	**5.0**	**18**
Benzene	**1.0**	**23**
Toluene	**1.0**	**3.2**
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**<C7**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	113

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-10	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-11	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**6200**
Methyl t-Butyl Ether	**50**	**420**
Benzene	**10**	**98**
Toluene	10	N.D.
Ethyl Benzene	**10**	**91**
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-11	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-12	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**670**
Methyl t-Butyl Ether	**25**	**1400**
Benzene	**5.0**	**12**
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-2(SP)	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-13	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**440**
Methyl t-Butyl Ether	**2.5**	**13**
Benzene	**0.50**	**10**
Toluene	**0.50**	**1.6**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.69**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C7**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	115

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Sampled: 02/12/98
6747 Sierra Court Suite J	Sample Descript: MW-3(SP)	Received: 02/12/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/20/98
Attention: Deanna Harding	Lab Number: 9802A47-14	Reported: 02/25/98

QC Batch Number: GC022098802004A
Instrument ID: GCHP04

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**3200**
Methyl t-Butyl Ether	**25**	**100**
Benzene	**5.0**	**62**
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	116

Analytes reported as N.D. were not present above the stated limit of detection.

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Gettler Ryan/Geostrategies	Client Proj. ID: Unocal SS#3292	Received: 02/12/98
6747 Sierra Court Suite J		
Dublin, CA 94568	Lab Proj. ID: 9802A47	Reported: 02/25/98
Attention: Deanna Harding		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 17 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

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Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Unocal SS#3292
Matrix: Liquid
Work Order #: 9802A47 -01-14

Reported: Feb 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC022098802004A	GC022098802004A	GC022098802004A	GC022098802004A	GC022098802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	8021094	8021094	8021094	8021094	8021094
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/20/98	2/20/98	2/20/98	2/20/98	2/20/98
Analyzed Date:	2/20/98	2/20/98	2/20/98	2/20/98	2/20/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	330 µg/L
Result:	18	19	18	56	300
MS % Recovery:	90	95	90	93	91
Dup. Result:	18	20	19	59	300
MSD % Recov.:	90	100	95	98	91
RPD:	0.0	5.1	5.4	5.2	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS022098	LCS022098	LCS022098	LCS022098	LCS022098
Prepared Date:	2/20/98	2/20/98	2/20/98	2/20/98	2/20/98
Analyzed Date:	2/20/98	2/20/98	2/20/98	2/20/98	2/20/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	330 µg/L
LCS Result:	18	19	18	58	300
LCS % Recov.:	90	95	90	97	91
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL
Elap #1271

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference