



GETTLER-RYAN INC.
TRANSMITTAL

May 13, 1999
 G-R #:180075

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

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

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 10, 1999	Groundwater Monitoring and Sampling Report First Quarter 1999 - March Events

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 **May 24, 1999**, this report will be distributed to the following:

Enclosure

cc: Mr. Scott Seery
 Alameda County Health Care Services
 1131 Harbor Bay Parkway
 Alameda, California 94502

ENVIRONMENTAL
 PROTECTION
 99 MAY 25 PM 4:59

agency/7376dbd.qmt



GETTLER-RYAN INC.

May 10, 1999
G-R Job #180075

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

RE: First Quarter 1999 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

Dear Mr. De Witt:

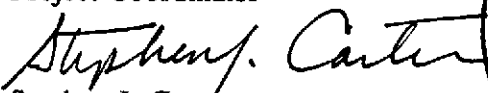
This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On March 15, 1999, field personnel monitored seven wells (MW-1, MW-2B, MW-3, MW-4, MW-5, MW-6, and MW-7) and sampled six wells (MW-1, MW-2B, MW-3, MW-4, MW-6, and MW-7) at the above referenced site. One well (MW-8) was not located. On March 23, 1999, field personnel monitored eight wells (MW-1, MW-2B and MW-3 through MW-8) and sampled one well (MW-8).

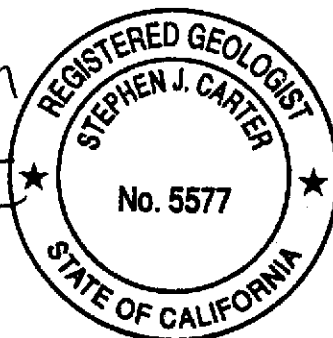
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one well (MW-5) during both visits. Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is summarized in Table 2. A Potentiometric Map is included as Figure 1.

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

Sincerely,

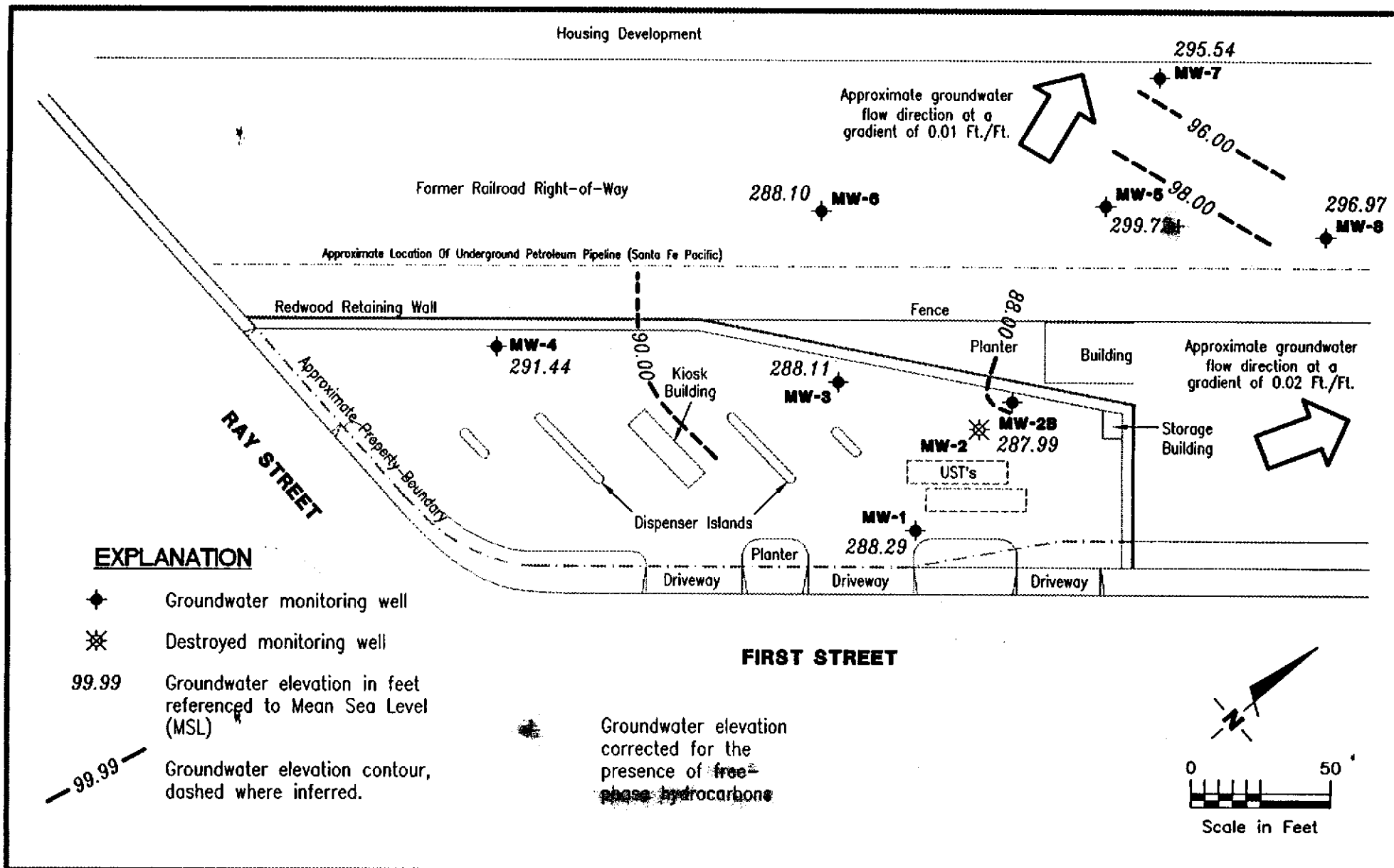

Deanna L. Harding
Project Coordinator


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



- Figure 1: Potentiometric Map -March 23, 1999
Figure 2: Concentration Map - March 15, 1999
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Product Thickness/Removal Data
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

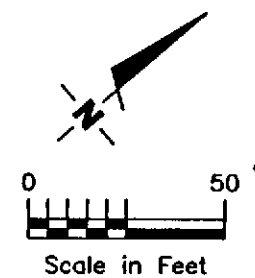
7376.qml



EXPLANATION

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

◆ Groundwater elevation corrected for the presence of free-phase hydrocarbons



Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP

Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE

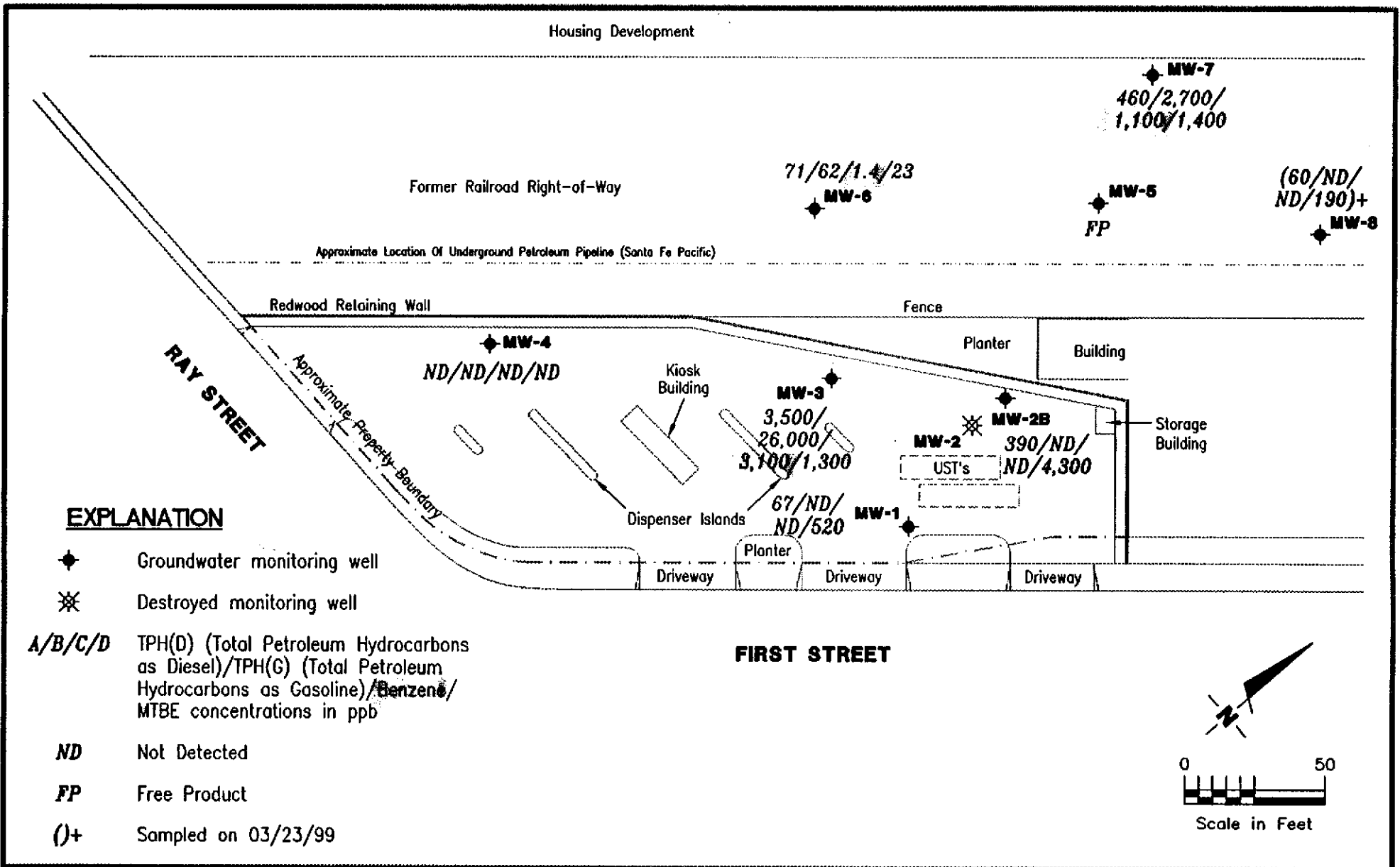
1

JOB NUMBER
180075

REVIEWED BY

DATE
March 23, 1999

REVISED DATE



Gettler - Ryan Inc.

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Dublin, CA 94568

CONCENTRATION MAP

Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE

2

JOB NUMBER
180075

REVIEWED BY

DATE
March 15, 1999

REVISED DATE

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	12/08/87 ¹	--	--	--	2,100 ²	50 ³	58	8	ND	10	--
366.99	12/07/94	81.04	285.95	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	80.09	286.90	0.00	120	ND	ND	1.1	ND	1.3	--
	06/01/95	77.53	289.46	0.00	54 ⁵	130	1.0	2.9	0.79	4.5	--
	09/06/95	79.00	287.99	0.00	690	ND	ND	ND	ND	ND	-- ⁶
	12/12/95	77.55	289.44	0.00	190 ⁵	ND	ND	ND	ND	ND	--
	03/01/96	75.09	291.90	0.00	56	ND	ND	ND	ND	ND	370
	06/15/96	75.07	291.92	0.00	ND	ND	ND	ND	ND	ND	270
	09/18/96	79.90	287.09	0.00	130 ⁵	ND	ND	ND	ND	ND	590
	12/21/96	78.96	288.03	0.00	ND	ND	ND	ND	ND	ND	150
	03/07/97	71.49	295.50	0.00	ND	ND	ND	ND	ND	ND	220
	06/27/97	80.05	286.94	0.00	ND	ND	ND	ND	ND	ND	17
	09/29/97	80.04	286.95	0.00	ND	ND	ND	ND	ND	ND	24
	12/15/97	80.07	286.92	0.00	ND	ND	ND	ND	ND	ND	25
	03/16/98	71.00	295.99	0.00	ND	ND	ND	0.52	ND	0.71	190
366.98	06/26/98	79.29	287.69	0.00	ND	59 ¹³	0.90	ND	ND	ND	570
	08/18/98	79.93	287.05	0.00	--	--	--	--	--	--	--
	09/22/98	79.99	286.99	0.00	240 ²⁰	ND	ND	ND	ND	ND	170
	12/15/98	80.02	286.96	0.00	ND	ND	ND	ND	ND	ND	63
	12/23/98	80.02	286.96	0.00	--	--	--	--	--	--	--
	03/15/99	78.95	288.03	0.00	67 ²⁴	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	520
	03/23/99	78.69	288.29	0.00	--	--	--	--	--	--	--
MW-2	12/08/87				620 ²	1,800 ³	910	800	260	1,200	--
	12/07/94	DAMAGED	--	--	--	--	--	--	--	--	--
	02/07/95	DESTROYED	--	--	--	--	--	--	--	--	--
MW-2B											
365.05	03/01/95	80.80	284.25	0.00	320	ND	ND	ND	ND	ND	--
	06/01/95	75.69	289.36	0.00	280	350	19	5.8	ND	7.7	--
	09/06/95	77.54	287.51	0.00	ND	ND	90	ND	ND	ND	-- ⁶
	12/12/95	75.96	289.09	0.00	850 ⁴	1,200	630	ND	15	57	-- ⁷
	03/01/96	73.27	291.78	0.00	870 ⁴	1,000	620	ND	ND	5.3	4,300

Table 1
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 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-2B (cont)	06/15/96	73.21	291.84	0.00	420	910	350	ND	ND	ND	3,700	
	09/18/96	81.08	283.97	0.00	600	1,200	95	ND	ND	ND	5,200	
	12/21/96	77.35	287.70	0.00	470	330 ⁸	57	ND	ND	ND	2,900	
	03/07/97	69.67	295.38	Sheen	870 ⁴	190	28	0.64	ND	1.5	4,300	
	06/27/97	82.40	282.65	0.00	680 ⁴	98	3.4	1.0	0.53	ND	3,100	
	09/29/97	82.72	282.33	0.00	430	ND	ND	ND	ND	ND	3,000	
	12/15/97	82.57	282.48	0.00	490	54 ⁹	ND	ND	ND	ND	4,100	
	03/16/98	69.13	295.92	Sheen	4,000 ¹⁰	ND ¹¹	17	ND ¹¹	ND ¹¹	ND ¹¹	4,400	
	365.05	06/26/98	77.78	287.27	0.00	790 ¹⁴	ND	ND	ND	ND	ND	4,000
		08/18/98	83.99	281.06	0.00	--	--	--	--	--	--	--
		09/22/98	83.89	281.16	0.00	930 ²⁰	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	21	4,600
		12/15/98	82.84	282.21	0.00	600	ND	ND	ND	ND	ND	5,100
		12/23/98	82.55	282.50	0.00	--	--	--	--	--	--	--
		03/15/99	77.31	287.74	0.00	390 ²⁵	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	4,300/4,800 ²⁷
03/23/99	77.06	287.99	0.00	--	--	--	--	--	--	--		
MW-3 367.01	12/08/87	--	--	--	2,300 ²	24,000 ³	2,600	1,300	160	660	--	
	12/07/94	85.54	281.47	0.00	--	ND	ND	ND	ND	ND	--	
	03/01/95	83.20	283.81	0.00	140 ⁴	ND	ND	1.1	ND	1.1	--	
	06/01/95	77.60	289.41	0.00	140 ⁵	62	7.8	0.90	ND	1.6	--	
	09/06/95	79.28	287.73	0.00	880 ⁵	4,100	380	490	130	710	-- ⁶	
	12/12/95	77.73	289.28	0.00	3,100 ⁴	19,000	600	380	2,100	5,300	-- ⁷	
	03/01/96	75.18	291.83	0.00	1,500 ⁵	3,400	950	3.2	1,900	290	59	
	06/15/96	75.13	291.88	0.00	400 ⁴	780	190	8.8	3.8	4.0	630	
	09/18/96	82.84	284.17	0.00	170	2,800	340	12	11	110	2,500	
	12/21/96	79.29	287.72	0.00	64 ⁴	51	1.3	ND	ND	0.53	20	
	03/07/97	71.58	295.43	0.00	570 ⁴	1,400	53	14	29	68	220	
	06/27/97	83.27	283.74	0.00	ND	ND	ND	ND	ND	ND	27	
	09/29/97	83.33	283.68	0.00	ND	ND	ND	ND	ND	ND	11	
	12/15/97	83.35	283.66	0.00	ND	ND	ND	ND	ND	ND	19	
	03/16/98	71.07	295.94	0.00	670 ¹⁰	130 ¹²	6.5	1.9	1.5	1.6	210	
	367.03	06/26/98	79.65	287.38	0.00	63 ¹³	400 ¹⁵	15	ND ¹¹	ND ¹¹	1.9	490
		08/18/98	83.29	283.74	0.00	--	--	--	--	--	--	--
09/22/98		83.33	283.70	0.00	95 ²⁰	ND	ND	ND	ND	ND	24	

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)	12/15/98	83.29	283.74	0.00	ND	ND	ND	ND	ND	ND	18
	12/23/98	83.28	283.75	0.00	--	--	--	--	--	--	--
	03/15/99	79.19	287.84	0.00	3,500 ²⁶	26,000	3,100	270	2,200	3,100	1,300
	03/23/99	78.92	288.11	0.00	--	--	--	--	--	--	--
MW-4											
369.03	09/18/96	73.67	295.36	0.00	200	160	14	ND	ND	1.6	ND
	12/21/96	77.69	291.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/07/97	68.04	300.99	0.00	ND	ND	1.9	0.99	ND	1.5	ND
	06/27/97	79.06	289.97	0.00	ND	ND	ND	ND	ND	ND	ND
	09/29/97	85.83	283.20	0.00	ND	ND	ND	ND	ND	ND	ND
	12/15/97	87.26	281.77	0.00	ND	ND	ND	ND	ND	ND	ND
	03/16/98	75.09	293.94	0.00	ND	ND	ND	0.69	ND	0.82	ND
	06/26/98	73.81	295.00	0.00	630 ¹⁶	100 ¹³	62	ND	ND	ND	ND
	08/18/98	78.75	290.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.95	284.86	0.00	74 ²⁰	ND	ND	ND	ND	ND	2.8
368.81	12/15/98	85.41	283.40	0.00	ND	ND	ND	ND	ND	ND	ND
	12/23/98	84.95	283.86	0.00	--	--	--	--	--	--	--
	03/15/99	78.47	290.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/23/99	77.37	291.44	0.00	--	--	--	--	--	--	--
	MW-5										
363.23	09/18/96	64.20	299.03	0.00	4,700 ⁵	36,000	6,700	410	730	6,500	4,100
	12/21/96	61.77	301.46	Sheen	4,700 ⁴	25,000	3,200	300	780	3,600	2,600
	03/07/97	56.30	306.93	Sheen	2,100 ⁴	14,000	1,300	120	410	1,200	1,700
	06/27/97	68.88	295.03**	0.90	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	09/29/97	69.47	294.02**	0.35	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/97	64.92	298.53**	0.30	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	03/16/98	49.63	313.67**	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	06/26/98	64.13	299.08	Sheen	230,000 ¹⁷	490 ¹⁸	6.3	2.8	4.2	5.1	10
363.21	08/18/98	70.40	292.81**	0.005	--	--	--	--	--	--	--
	09/22/98	69.10	294.16**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/98	68.84	294.50**	0.17	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product		TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
				Thickness (ft.)								
MW-5 (cont)	12/23/98	68.42	295.18**	0.50		--	--	--	--	--	--	--
	03/15/99	63.81	299.59**	0.25		--	--	--	--	--	--	--
	03/23/99	63.59	299.72**	0.13		--	--	--	--	--	--	--
MW-6												
363.12	09/18/96	79.07	284.05	0.00		ND	160	5.4	ND	ND	ND	ND
	12/21/96	75.40	287.72	0.00		ND	300 ⁸	96	1.3	ND	1.7	21
	03/07/97	67.61	295.51	0.00		190 ⁴	1,800 ⁸	920	18	ND	31	290
	06/27/97	80.45	282.67	0.00		73 ⁵	ND	0.73	ND	ND	38	38
	09/29/97	86.02	277.10	0.00		ND	62 ⁹	ND	ND	ND	ND	43
	12/15/97	84.03	279.09	0.00		ND	78 ⁹	ND	ND	ND	ND	39
	03/16/98	67.15	295.97	0.00		100 ¹⁰	210 ¹²	36	2.5	ND	3.0	64
	06/26/98	75.71	287.42	0.00		180 ¹⁴	530	300	8.3	2.8	8.7	81
	08/18/98	74.86	288.27	0.00		--	--	--	--	--	--	--
	09/22/98	UNABLE TO LOCATE			--	--	--	--	--	--	--	--
12/15/98	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	
12/23/98	80.80	282.33	0.00		--	120 ²³	1.1	ND	ND	0.78	25	
01/23/99	80.68	282.45	0.00		ND	--	--	--	--	--	--	
03/15/99	75.29	287.84	0.00		71 ²⁴	62 ²²	1.4	ND	ND	ND	23	
03/23/99	75.03	288.10	0.00		--	--	--	--	--	--	--	
MW-7												
355.97	06/26/98	--	--	--		--	--	--	--	--	--	--
	08/18/98	68.75	287.22	0.00		1,400 ²⁰	4,000	1,900	48	160	ND ¹¹	1,700
	09/22/98	66.35	289.62	0.00		780 ²⁰	3,200	1,100	ND	22	ND	1,500
	12/15/98	65.03	290.94	0.00		350 ²¹	1,900 ²²	180	2.7	2.9	3.8	1,400
	12/23/98	64.82	291.15	0.00		--	--	--	--	--	--	--
	03/15/99	60.44	295.53	0.00		460 ²⁶	2,700	1,100	ND ¹¹	30	16	1,400/970 ²⁷
	03/23/99	60.43	295.54	0.00		--	--	--	--	--	--	--

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8											
362.37	06/26/98	63.00	299.37	0.00	80 ¹⁹	ND	6.0	ND	ND	ND	150
	08/18/98	73.38	288.99	0.00	--	--	--	--	--	--	--
	09/22/98	70.89	291.48	0.00	120 ²⁰	ND	ND	ND	ND	ND	9.5
	12/15/98	70.29	292.08	0.00	ND	ND	ND	ND	ND	ND	3.0
	12/23/98	70.03	292.34	0.00	--	--	--	--	--	--	--
	03/15/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
361.83	03/23/99	64.86	296.97	0.00	60 ²⁴	ND	ND	0.77	ND	0.96	190
Trip Blank											
TB-LB	03/16/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/26/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	08/18/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/22/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/15/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/23/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/15/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/23/99	--	--	--	--	ND	ND	ND	ND	ND	ND

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

EXPLANATIONS:

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

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

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

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

- 1 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.
- 2 Reported as Total Extractable Hydrocarbons (TEH).
- 3 Reported as Total Petroleum Hydrocarbons (TPH).
- 4 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 5 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 6 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- 7 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 8 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 9 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 10 Laboratory report indicates diesel and unidentified hydrocarbons > C16.
- 11 Detection limit raised. Refer to analytical results.
- 12 Laboratory report indicates gasoline and unidentified hydrocarbons < C7.
- 13 Laboratory report indicates discrete peaks.
- 14 Laboratory report indicates diesel and unidentified hydrocarbons > C20.
- 15 Laboratory report indicates discrete peaks and unidentified hydrocarbons < C7.
- 16 Laboratory report indicates diesel and unidentified hydrocarbons < C15.
- 17 Laboratory report indicates diesel and unidentified hydrocarbons < C15 and > C20.
- 18 Laboratory report indicates gasoline and unidentified hydrocarbons > C8.
- 19 Laboratory report indicates unidentified hydrocarbons > C16.
- 20 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 21 Laboratory report indicates diesel and unidentified hydrocarbons < C12.
- 22 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 23 Laboratory report indicates unidentified hydrocarbons C6-C9.

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

- ²⁴ Laboratory report indicates unidentified hydrocarbons > C14.
- ²⁵ Laboratory report indicates unidentified hydrocarbons > C10.
- ²⁶ Laboratory report indicates unidentified hydrocarbons > C9.
- ²⁷ MTBE by EPA Method 8260.

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

Well ID	Date	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) gallons
MW-5	03/07/97	56.30	Sheen	--
	06/27/97	68.88	0.90	--
	09/29/97	69.47	0.35	--
	12/15/97	64.92	0.30	--
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	--
	08/18/98	70.40	0.005	--
	09/22/98	69.10	0.06	--
	12/15/98	68.84	0.17	--
	12/23/98	68.42	0.50	--
	03/15/99	63.81	0.25	0.13
	03/23/99	63.59	0.13	0.00

EXPLANATIONS:

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

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available

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

Well ID	Date	Ethanol (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-2B	03/15/99	ND	3,800	4,800	13	ND	ND
MW-7	03/15/99	ND	610	970	4.3	ND	ND

EXPLANATIONS:

TBA = Tertiary Butyl Alcohol
 MTBE = Methyl Tertiary Butyl Ether
 DIPE = Di-isopropyl Ether
 ETBE = Ethyl Tertiary Butyl Ether
 TAME = Tertiary Amyl Methyl Ether
 ppb = Parts per billion
 -- = Not Analyzed
 ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

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. 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.

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.

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*TOSCO (UNOCAL) SS#7376
PLEASANTON, CA*

*MONITORING & SAMPLING
EVENT OF MARCH 15, 1999*

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility# TOSCO 7376 Job#: 180075
 Address: 4191 First st. Date: 3/15/99
 City: Pleasanton Sampler: Vantken

Well ID MW-1 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
 Total Depth 86.43 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 78.95 ft. Factor (VF) 6" = 1.50 12" = 5.80

7.48 x VF 0.17 = 1.27 x 3 (case volume) = Estimated Purge Volume: 381 (gal.)

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

Starting Time: 12:32 Weather Conditions: cloudy
 Sampling Time: 12:55 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:34</u>	<u>1.5</u>	<u>7.60</u>	<u>5.67</u>	<u>68.7</u>			
<u>12:35</u>	<u>3</u>	<u>7.42</u>	<u>5.59</u>	<u>69.2</u>			
<u>12:37</u>	<u>4</u>	<u>7.35</u>	<u>5.58</u>	<u>69.5</u>			

LABORATORY INFORMATION

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

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376 Job #: 170075
 Address: 4191 First St. Date: 3/15/99
 City: Pleasanton Sampler: Vantkes

Well ID MW-2B Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (Gallons) Ø
 Total Depth 85.25 ft.

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

 Depth to Water 77.31 ft.

7.94 x VF 0.17 = 1.35 X 3 (case volume) = Estimated Purge Volume: 4.05 (gal.)

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

Starting Time: 3:55 Weather Conditions: cloudy
 Sampling Time: 4:20 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>3:57</u>	<u>1</u>	<u>7.35</u>	<u>6.87</u>	<u>69.1</u>			
<u>4:00</u>	<u>3</u>	<u>7.19</u>	<u>6.79</u>	<u>69.3</u>			
<u>4:02</u>	<u>4.0</u>	<u>7.11</u>	<u>6.76</u>	<u>69.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2B</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>"</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>"</u>	<u>TPHD</u>
<u>"</u>	<u>2 VOA</u>	<u>~</u>	<u>HCl</u>	<u>"</u>	<u>8260(S) Oxy. Comp.</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # TOSC0 7376 Job#: 180075
 Address: 4191 First St. Date: 3/15/99
 City: Pleasanton Sampler: Vartken

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

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

 Depth to Water 79.19 ft.

14.92 X VF 0.17 = 2.54 X 3 (case volume) = Estimated Purge Volume: 7.61 (gal.)

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

Starting Time: 11:53 Weather Conditions: cldy
 Sampling Time: 12:20 Water Color: clr Odor: NO
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm/100	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:55</u>	<u>2.3</u>	<u>7.58</u>	<u>5.37</u>	<u>67.8</u>			
<u>11:58</u>	<u>5</u>	<u>7.41</u>	<u>5.29</u>	<u>68.1</u>			
<u>12:03</u>	<u>8</u>	<u>7.36</u>	<u>5.32</u>	<u>68.5</u>			

LABORATORY INFORMATION

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

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility # 7376 Job #: 180075
 Address: 4191 First st. Date: 3/15/99
 City: Pleasanton Sampler: Varitek

Well ID MW-4 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
 Total Depth 93.01 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 78.47 ft. Factor (VF) 6" = 1.50 12" = 5.80

11.54 X VF 0.17 = 2.47 X 3 (case volume) = Estimated Purge Volume: 7.42 (gal.)

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

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}/100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:17</u>	<u>2.5</u>	<u>7.52</u>	<u>4.92</u>	<u>66.8</u>	_____	_____	_____
<u>11:20</u>	<u>5</u>	<u>7.35</u>	<u>4.85</u>	<u>67.3</u>	_____	_____	_____
<u>11:23</u>	<u>7.5</u>	<u>7.30</u>	<u>4.79</u>	<u>67.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>2</u>	<u>1 Amber</u>	<u>2</u>	<u>NONE</u>	<u>2</u>	<u>TPHD</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376 Job#: 180075
 Address: 4191 First St. Date: 3/15/99
 City: Pleasanton Sampler: Vart Key

Well ID MW-5 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0.25 (feet) Amount Bailed (product/water): 0.5 liter (Gallons)
 Total Depth 72.52 ft.
 Depth to Water 63.81 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

Starting Time: _____ Weather Conditions: _____
 Sampling Time: _____ Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH/GI/btex/mtbe</u>

COMMENTS: Not sampled due to the presence of trace product

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco 7376 Job #: 180075
 Address: 4191 First St. Date: 3/15/99
 City: Pleasanton Sampler: Vastker

Well ID MW-6 Well Condition: ok
 Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (Gallons) 0
 Total Depth 86.85 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 75.29 ft. Factor (VF) 6" = 1.50 12" = 5.80

11.56 x VF 0.17 = 1.96 x 3 (case volume) = Estimated Purge Volume: 5.90 (gal.)

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

Starting Time: 1:15 Weather Conditions: cldy
 Sampling Time: 1:37 Water Color: brn Odor: _____
 Purging Flow Rate: 1 gpm. Sediment Description: silt
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:17</u>		<u>7.50</u>	<u>5.70</u>	<u>69.8</u>			
<u>1:19</u>	<u>4</u>	<u>7.37</u>	<u>5.63</u>	<u>69.4</u>			
<u>1:21</u>	<u>6</u>	<u>7.33</u>	<u>5.60</u>	<u>69.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/bTEX/mtbe</u>
<u>2</u>	<u>1 Amber</u>	<u>2</u>	<u>NDNE</u>	<u>4</u>	<u>TPHD</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility # 7376
 Address: 4191 First St.
 City: Pleasanton

Job #: 180075
 Date: 3/15/99
 Sampler: Vartter

Well ID MW-7 Well Condition: on
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: ∅ (feet) (product/water): ∅ (Gallons)
 Total Depth 76.90 ft.
 Depth to Water 60.44 ft.

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

16.46 X VF 0.17 = 2.80 X 3 (case volume) = Estimated Purge Volume: 8.39 (gal.)

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

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

Starting Time: 11:55 Weather Conditions: cldy
 Sampling Time: 2:20 Water Color: brn Odor: 7 (wild)
 Purging Flow Rate: _____ gpm. Sediment Description: silt
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>2:02</u>	<u>3</u>	<u>7.28</u>	<u>5.42</u>	<u>68.3</u>	_____	_____	_____
<u>2:09</u>	<u>6</u>	<u>7.09</u>	<u>5.31</u>	<u>68.7</u>	_____	_____	_____
<u>2:17</u>	<u>8.5</u>	<u>7.03</u>	<u>5.19</u>	<u>68.9</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>2</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>~</u>	<u>TPH D</u>
<u>2</u>	<u>2 VOA</u>	<u>~</u>	<u>HCl</u>	<u>~</u>	<u>8260 (5) OKY. 0-9</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility Tosco # 7376 Job#: 180075
 Address: 4191 First St. Date: 3/15/99
 City: Pleasanton Sampler: Vertek

Well ID MW-8 Well Condition: Covered over, unable to locate
 Well Diameter _____ in. Hydrocarbon Amount Bailed
 Thickness: _____ (feet) (product/water): _____ (Gallons)
 Total Depth _____ ft.
 Depth to Water _____ ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

Starting Time: _____ Weather Conditions: _____
 Sampling Time: _____ Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{hos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3 VOA</u>	<u>Y</u>	<u>HSI</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>

COMMENTS: Unable to locate (with metal detector). spent 1 hr. Clyde came to help me find it - after 1/2 hr we gave up.



TOSCO

Tosco Marketing Company
2000 East Canyon Pl., Box 400
San Ramon, California 94583

Facility Number TOSCO (UNOCAL) SS#7376

Facility Address 4191 First Street, Pleasanton, CA

Consultant Project Number 180075.85

Consultant Name Gettler-Ryan Inc. (G-R Inc.)

Address 6747 Sierra Court, Suite J, Dublin, CA 94568

Project Contact (Name) Deanna L. Harding

(Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name) DAVID DEWILL
Mr. Tina R. Berry

(Phone) (916) 277-2324

Laboratory Name Sequoia Analytical **9903367**

Laboratory Release Number _____

Sample Collected by (Name) Vaethes Tashjian

Collection Date: 3/5/99

Signature Vaethes Tashjian

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Diachete	Time	Sample Preservation	Leak (Yes or No)	Analytes To Be Performed											DO NOT BILL TB-LB ANALYSIS	Remarks						
								TPH Gas + STEK W/ATBE (8015) (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,NI (ICAP or AA)											
TB-LB		1	W	G		HCl	Y	X																9031564		
MW-1		4	W	G	12:55 PM			X	X																9031565	A-D
MW-2B		6	W	G	4:20 PM			X	X																9031566	A-F
MW-3		4	W	G	12:20 PM			X	X																9031567	A-D
MW-4		4	W	G	11:40 AM			X	X																9031568	↓
MW-6		4	W	G	1:27 PM			X	X																9031569	↓
MW-7		6	W	G	2:20 PM			X	X																9031570	A-F

Relinquished By (Signature) <u>Vaethes Tashjian</u>	Organization G-R Inc.	Date/Time <u>3/5/99 7:30 PM</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>CAC</u>	Date/Time <u>3-16-1999</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>CAC</u>	Date/Time <u>3/16/1999</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>[Blank]</u>	Date/Time <u>[Blank]</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>[Blank]</u>	Date/Time <u>[Blank]</u>	Received For Laboratory By (Signature) <u>Aura DeMan</u>	Date/Time <u>3/15/99 1930</u>		

RONALD P. JENSEN 3/16/99 17:00



Sequoia Analytical

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RECEIVED
 APR 17 1999

Gettler-Ryan - Dublin
 6747 Sierra Court, Suite J
 Dublin, CA 94568
 Attention: Deanna Harding

Client Project ID: Tosco SS#7376, Pleasanton
 Sample Matrix: Water
 Analysis Method: EPA 5030/8015 Mod./8020
 First Sample #: 903-1564

Sampled: Mar 15, 1999
 Received: Mar 16, 1999
 Reported: Apr 1, 1999

GETTLER-RYAN INC.
 GEOTECHNICAL CONTRACTORS

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX/MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 903-1564 TB-LB	Sample I.D. 903-1565 MW-1	Sample I.D. 903-1566 MW-2B	Sample I.D. 903-1567 MW-3	Sample I.D. 903-1568 MW-4	Sample I.D. 903-1569 MW-6
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	26,000	N.D.	62
Benzene	0.50	N.D.	N.D.	N.D.	3,100	N.D.	1.4
Toluene	0.50	N.D.	N.D.	N.D.	270	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	2,200	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.	3,100	N.D.	N.D.
MTBE	2.5	N.D.	520	4,300	1,300	N.D.	23
Chromatogram Pattern:		--	--	--	Gasoline	--	Unidentified Hydrocarbons C6 - C12

Quality Control Data

Report Limit Multiplication Factor:	1.0	10	20	200	1.0	1.0
Date Analyzed:	3/26/99	3/27/99	3/27/99	3/26/99	3/26/99	3/27/99
Instrument Identification:	HP-5	HP-9	HP-9	HP-5	HP-5	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	91	100	96	91	102	119

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
 Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
 Project Manager



Sequoia Analytical

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 903-1570

Sampled: Mar 15, 1999
Received: Mar 16, 1999
Reported: Apr 1, 1999

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 903-1570 MW-7
Purgeable Hydrocarbons	50	2,700
Benzene	0.50	1,100
Toluene	0.50	N.D.
Ethyl Benzene	0.50	30
Total Xylenes	0.50	16
MTBE	2.5	1,400

Chromatogram Pattern: Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20
Date Analyzed:	3/27/99
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	116

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

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FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 903-1565

Sampled: Mar 15, 1999
Received: Mar 16, 1999
Reported: Apr 1, 1999

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 903-1565 MW-1	Sample I.D. 903-1566 MW-2B	Sample I.D. 903-1567 MW-3	Sample I.D. 903-1568 MW-4	Sample I.D. 903-1569 MW-6	Sample I.D. 903-1570 MW-7
Extractable Hydrocarbons	50	67	390	3,500	N.D.	71	460
Chromatogram Pattern:		Unidentified Hydrocarbons > C14	Unidentified Hydrocarbons > C10	Unidentified Hydrocarbons > C9	--	Unidentified Hydrocarbons > C14	Unidentified Hydrocarbons > C9

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	3/22/99	3/22/99	3/22/99	3/22/99	3/22/99	3/22/99
Date Analyzed:	3/24/99	3/24/99	3/24/99	3/24/99	3/24/99	3/24/99
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

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FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID: Tosco SS#7376, Pleasanton	Sampled: Mar 15, 1999
6747 Sierra Court, Suite J	Sample Descript: Water, MW-2B	Received: Mar 16, 1999
Dublin, CA 94568	Analysis Method: EPA 8260	Analyzed: Mar 23, 1999
Attention: Deanna Harding	Lab Number: 903-1566	Reported: Apr 1, 1999

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	500	N.D.
t-Butanol.....	100	3,800
Methyl t-Butyl Ether (MTBE).....	2.0	4,800
Di-Isopropyl Ether (DIPE).....	2.0	13
Ethyl t-Butyl Ether (ETBE).....	2.0	N.D.
t-Amyl Methyl Ether (TAME).....	2.0	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50 150.....	100
1,2-Dichloroethane-d4.....	50 150.....	88

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager





Sequoia Analytical

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Gettler-Ryan - Dublin	Client Project ID: Tosco SS#7376, Pleasanton	Sampled: Mar 15, 1999
6747 Sierra Court, Suite J	Sample Descript: Water, MW-7	Received: Mar 16, 1999
Dublin, CA 94568	Analysis Method: EPA 8260	Analyzed: Mar 23, 1999
Attention: Deanna Harding	Lab Number: 903-1570	Reported: Apr 1, 1999

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	500	N.D.
t-Butanol.....	100	610
Methyl t-Butyl Ether (MTBE).....	2.0	970
Di-Isopropyl Ether (DIPE).....	2.0	4.3
Ethyl t-Butyl Ether (ETBE).....	2.0	N.D.
t-Amyl Methyl Ether (TAME).....	2.0	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50 150	80
1,2-Dichloroethane-d4.....	50 150	30 *

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
 Julianne Fegley
 Project Manager

Please Note:

* Surrogate recovery below detection limit due to matrix interference.





Sequoia Analytical

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 9031564-570

Reported: Apr 1, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes
Batch#:	9031387	9031387	9031387	9031387
Date Prepared:	3/26/99	3/26/99	3/26/99	3/26/99
Date Analyzed:	3/26/99	3/26/99	3/26/99	3/26/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	100	100	100	105
Matrix Spike Duplicate % Recovery:	100	100	100	105
Relative % Difference:	0.0	0.0	0.0	0.0

LCS Batch#:	5LCS032699	5LCS032699	5LCS032699	5LCS032699
Date Prepared:	3/26/99	3/26/99	3/26/99	3/26/99
Date Analyzed:	3/26/99	3/26/99	3/26/99	3/26/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	105	105	105	112

% Recovery Control Limits:	70-130	70-130	70-130	70-130

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.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager





Sequoia Analytical

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 9031564-570

Reported: Apr 1, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes
Batch#:	9031665	9031665	9031665	9031665
Date Prepared:	3/27/99	3/27/99	3/27/99	3/27/99
Date Analyzed:	3/27/99	3/27/99	3/27/99	3/27/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	105	100	105	113
Matrix Spike Duplicate % Recovery:	115	105	110	118
Relative % Difference:	9.1	4.9	4.7	4.3

LCS Batch#:	2LCS032799	2LCS032799	2LCS032799	2LCS032799
Date Prepared:	3/27/99	3/27/99	3/27/99	3/27/99
Date Analyzed:	3/27/99	3/27/99	3/27/99	3/27/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	110	105	110	118

% Recovery Control Limits:	Benzene	Toluene	Ethyl Benzene	Xylenes
	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
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.





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Gettler-Ryan - Dublin
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Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 9031564-570

Reported: Apr 1, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	MTBE
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M.	EPA 8260
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	K. Grubb	N. Nelson

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	MTBE
Batch#:	9032012	9032012	9032012	9032012	BLK032299B	9031271
Date Prepared:	3/27/99	3/27/99	3/27/99	3/27/99	3/22/99	3/22/99
Date Analyzed:	3/27/99	3/27/99	3/27/99	3/27/99	3/24/99	3/22/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L	50 µg/L
Matrix Spike % Recovery:	125	90	125	129	88	-
Matrix Spike Duplicate % Recovery:	135	95	130	132	86	-
Relative % Difference:	7.7	5.4	3.9	2.0	2.3	-

LCS Batch#:	5LCS032799	5LCS032799	5LCS032799	5LCS032799	LCS032299B	LCS032299B
Date Prepared:	3/27/99	3/27/99	3/27/99	3/27/99	3/22/99	3/22/99
Date Analyzed:	3/27/99	3/27/99	3/27/99	3/27/99	3/24/99	3/22/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A	GC/MS-2
LCS % Recovery:	115	115	115	120	84	108

% Recovery Control Limits:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	MTBE
	70-130	70-130	70-130	70-130	60-140	70-130

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.

SEQUOIA ANALYTICAL, #1271

Julianne Feygley
Julianne Feygley
Project Manager



*TOSCO (UNOCAL) SS#7376
PLEASANTON, CA*

*MONITORING & SAMPLING
EVENT OF MARCH 23, 1999*

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376 Job#: 140107.04
 Address: 491 First St. Date: 3/23/99
 City: Pleasanton Sampler: Venthas

Well ID MW-1 Well Condition: ok
 Well Diameter 2 in. Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)
 Total Depth 86.43 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 78.69 ft. 6" = 1.50 12" = 5.80

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

Starting Time: _____ Weather Conditions: _____
 Sampling Time: _____ Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3-VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>

COMMENTS: Monitor only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility# 7376
 Address: 491 First St.
 City: Pleasanton

Job#: 140107.04
 Date: 3/23/99
 Sampler: Vartkas

Well ID MW-2
 Well Diameter 2 in.
 Total Depth 85.25 ft.
 Depth to Water 77.06 ft.

Well Condition: OK
 Hydrocarbon Thickness: Ø (feet) Amount Bailed Ø (Gallons)
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
~~Standards~~
 Other: _____

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

Starting Time: _____
 Sampling Time: _____
 Purging Flow Rate: _____ gpm.
 Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity μ mhos/cm/100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TRH(G)/btex/mtbe</u>

COMMENTS: Monitor only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility# 7376
 Address: 491 First st.
 City: Pleasanton

Job#: 140107.04
 Date: 3/23/99
 Sampler: Ventlas

Well ID MW-3
 Well Diameter 2 in.
 Total Depth 94.11 ft.
 Depth to Water 78.92 ft.

Well Condition: OK

Hydrocarbon Thickness:	(feet)	Amount Bailed (product/water):	(Gallons)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
~~Surfex~~
 Other: _____

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

Starting Time: _____ Weather Conditions: _____
 Sampling Time: _____ Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm/100	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3 Vol A</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btax/mtba</u>

COMMENTS: Monitor only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility # 7376
 Address: 491 First St.
 City: Pleasanton

Job#: 140107.04
 Date: 3/23/99
 Sampler: Ventlas

Well ID MW-4

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 93.01 ft.

Depth to Water 77.37 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
~~Standoffs~~
 Other: _____

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

Starting Time: _____
 Sampling Time: _____
 Purging Flow Rate: _____ gpm.
 Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity μ mhos/cm/100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3-VOA</u>		<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mthe</u>

COMMENTS: Monitor only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376 Job#: 140107.04
 Address: 491 First St. Date: 3/23/99
 City: Pleasanton Sampler: Vasthus

Well ID MW-5 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.13 (feet) (product/water): _____ (Gallons)
 Total Depth 72.52 ft.
 Depth to Water 63.59 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
~~Strombos~~
 Other: _____

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

Starting Time: _____ Weather Conditions: _____
 Sampling Time: _____ Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}/100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: Monitor only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
 Facility # 7376
 Address: 491 First St.
 City: Pleasanton

Job#: 140107.04
 Date: 3/23/99
 Sampler: Vastkas

Well ID MW-6

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 86.85 ft.

Depth to Water 75.03 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
~~Standards~~
 Other: _____

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

Starting Time: _____
 Sampling Time: _____
 Purging Flow Rate: _____ gpm
 Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity μ mhos/cm/100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btox/mtba</u>

COMMENTS: Monitor only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Tosco
Facility # 7376

Job#: 140107.04

Address: 491 First St.

Date: 3/23/99

City: Pleasanton

Sampler: Ventlas

Well ID MW-7

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 76.90 ft.

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

Depth to Water 60.43 ft.

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
~~Standoffs~~
Other: _____

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

Starting Time: _____

Weather Conditions: _____

Sampling Time: _____

Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity μ mhos/cm/100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3-10A</u>		<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH/GH/btex/mtha</u>

COMMENTS: Monitor only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility# Tosco 7376
 Address: 491 First St.
 City: Pleasanton

Job#: 140107.04
 Date: 3/23/99
 Sampler: Ventlas

Well ID MW-8

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon

Amount Bailed

Thickness: Ø (feet) (product/water): Ø (Gallons)

Total Depth 84.75 ft.

Depth to Water 64.86 ft.

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

19.89 x VF 0.17 = 3.38 x 10 (develop)
 (case volume) = Estimated Purge Volume: 34 (gal.)

Purge Equipment:

Disposable Bailer
 Bailer
 Stack
Suction
~~Handpump~~
 Other: _____

Sampling Equipment:

Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 1:40

Weather Conditions: cldy

Sampling Time: 2:45

Water Color: brn Odor: _____

Purging Flow Rate: 4 gpm.

Sediment Description: Sand & Silt (muddy)

Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:50</u>	<u>11</u>	<u>7.57</u>	<u>6.94</u>	<u>66.3</u>			
<u>2:10</u>	<u>22</u>	<u>7.42</u>	<u>6.80</u>	<u>67.5</u>			
<u>2:28</u>	<u>34</u>	<u>7.38</u>	<u>6.72</u>	<u>68.1</u>			

LABORATORY INFORMATION

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

COMMENTS: Very Turbid water - submersible pump plugged up twice.



Sequoia Analytical

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FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Unocal SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 903-2340

Sampled: Mar 23, 1999
Received: Mar 24, 1999
Reported: Apr 21, 1999

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APR 20 1999

GETTLER-RYAN INC.
3155 COMMERCE BLVD.

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 903-2340 TB-LB	Sample I.D. 903-2341 MW-8
Purgeable Hydrocarbons	50	N.D.	N.D.
Benzene	0.50	N.D.	N.D.
Toluene	0.50	N.D.	0.77
Ethyl Benzene	0.50	N.D.	N.D.
Total Xylenes	0.50	N.D.	0.96
MTBE	2.5	N.D.	190
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	4/2/99	4/3/99
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	102	89

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Unocal SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 903-2341

Sampled: Mar 23, 1999
Received: Mar 24, 1999
Reported: Apr 21, 1999

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 903-2341 MW-8
Extractable Hydrocarbons	50	60

Chromatogram Pattern: Unidentified Hydrocarbons >C14

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	3/30/99
Date Analyzed:	4/7/99
Instrument Identification:	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Unocal SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 9032340-341

Reported: Apr 21, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel

MS/MSD

Batch#:	9032236	9032236	9032236	9032236
Date Prepared:	4/2/99	4/2/99	4/2/99	4/2/99
Date Analyzed:	4/2/99	4/2/99	4/2/99	4/2/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	100	100	100	105
Matrix Spike Duplicate % Recovery:	95	100	100	105
Relative % Difference:	5.1	0.0	0.0	0.0

LCS Batch#:	5LCS040299	5LCS040299	5LCS040299	5LCS040299
Date Prepared:	4/2/99	4/2/99	4/2/99	4/2/99
Date Analyzed:	4/2/99	4/2/99	4/2/99	4/2/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	100	100	95	100

% Recovery Control Limits:				
	70-130	70-130	70-130	70-130

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.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Unocal SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 9032340-341

Reported: Apr 21, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M.
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	N. VanSlambrook

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Batch#:	9032525	9032525	9032525	9032525	BLK033099
Date Prepared:	4/3/99	4/3/99	4/3/99	4/3/99	3/30/99
Date Analyzed:	4/3/99	4/3/99	4/3/99	4/3/99	4/7/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L
Matrix Spike % Recovery:	115	120	115	120	90
Matrix Spike Duplicate % Recovery:	100	100	100	108	96
Relative % Difference:	14	18	14	10	6.5

LCS Batch#:	5LCS040399	5LCS040399	5LCS040399	5LCS040399	LCS033099
Date Prepared:	4/3/99	4/3/99	4/3/99	4/3/99	3/30/99
Date Analyzed:	4/3/99	4/3/99	4/3/99	4/3/99	4/7/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A
LCS % Recovery:	95	95	95	100	92

% Recovery Control Limits:	70-130	70-130	70-130	70-130	60-140
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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.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager

ENVIRONMENTAL PROTECTION