RO 499

GETTLER-RYAN INC.

MAY 16 2002

TRANSMITTAL

April 29, 2002
G-R #180108

TO: Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

CC: Mr. Tim Ripp
IT Corporation
1921 Ringwood Avenue
San Jose, California 95131

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

RE: Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 26, 2002	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of March 15, 2002

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 13, 2002***, this report will be distributed to the following:

cc: Ms. Scott Seery, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502
Mr. Michael Bakaldin, City of San Leandro Fire Department, 835 East 14th Street, San Leandro, CA 94577

Enclosure

trans/5367-dbd

GETTLER-RYAN INC.

April 26, 2002
G-R Job #180108

Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: First Semi-Annual Event of March 15, 2002
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. A Potentiometric Map is included as Figure 1.

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

Sincerely,

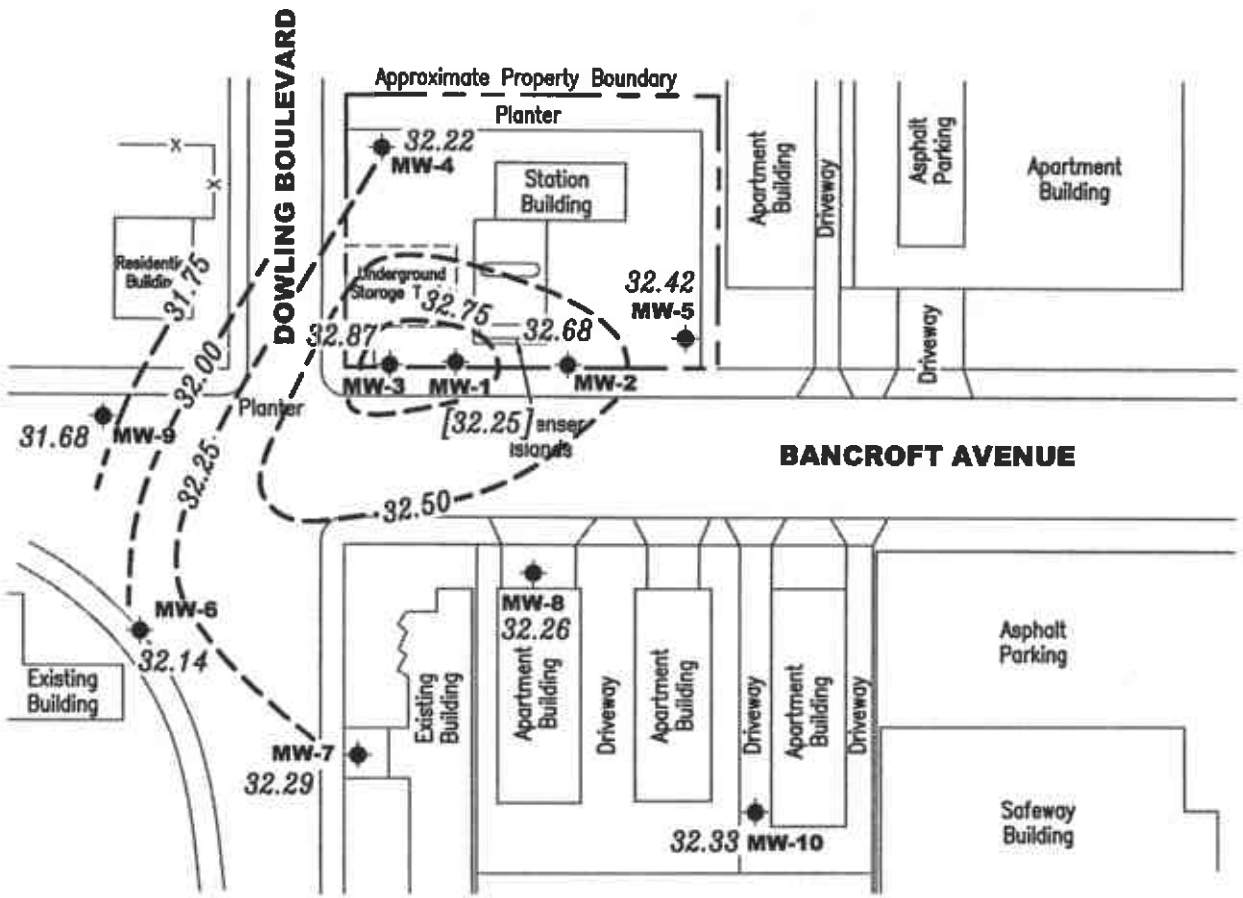
Deanna L. Harding
Project Coordinator

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Douglas J. Lee
Senior Geologist, R.G. No. 6882

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

5367.qml



EXPLANATION

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- --99.99-- Groundwater elevation contour, dashed where inferred
- [99.99] Not used in contouring

Approximate groundwater flow direction at a gradient of 0.005 to 0.01 Ft./Ft.

N

0 80

Scale in Feet

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

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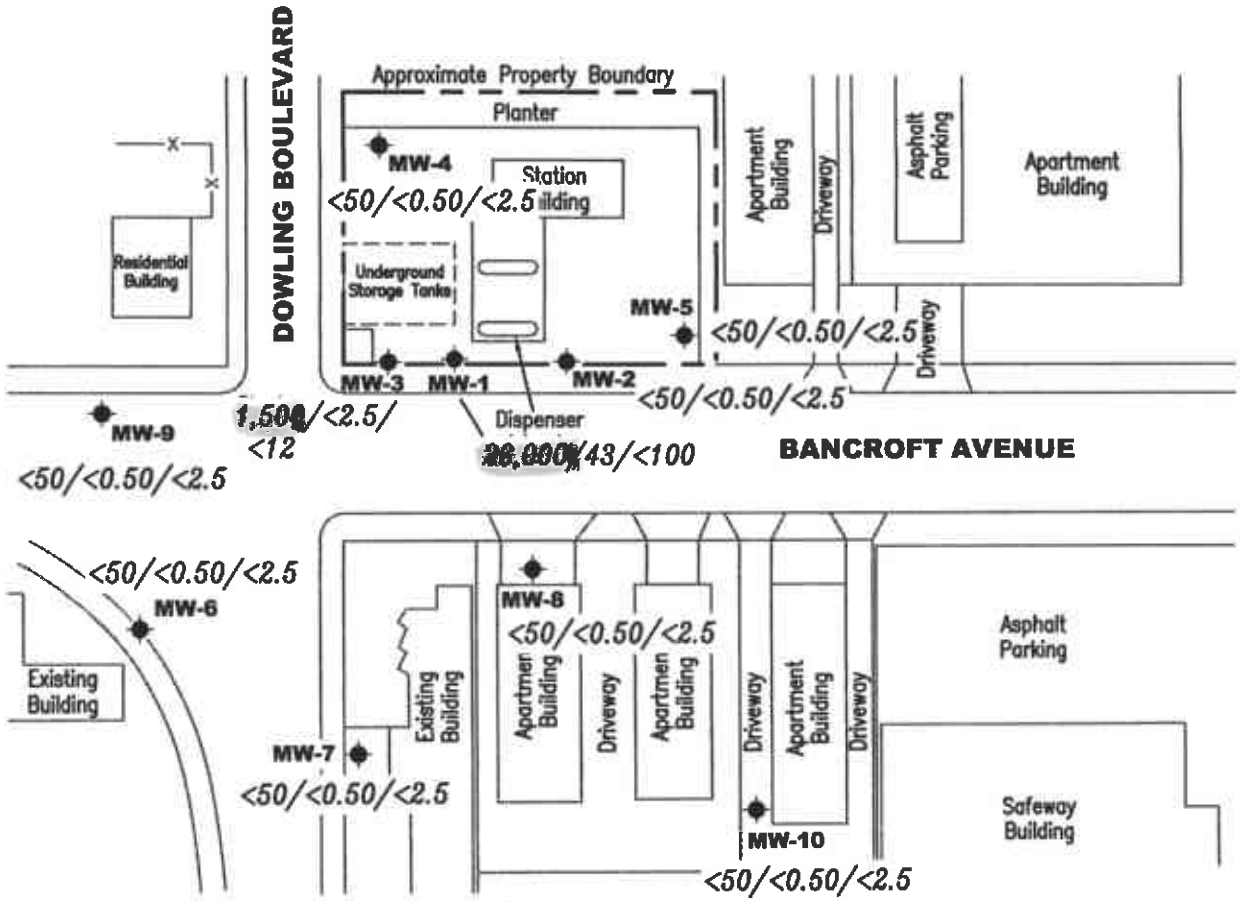
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

FIGURE 1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180108		March 15, 2002	

FILE NAME: P:\Enviro\TOSCO\5367\Q02-5367.DWG | Layout Tab: Pot1



EXPLANATION

- ◆ Groundwater monitoring well
- *A/B/C* Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb

N

0 80

Scale in Feet

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

GETTLER - RYAN INC.
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CONCENTRATION MAP
Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180108		March 15, 2002	

FILE NAME: P:\Enviro\TOSCO\5367\Q02-5367.dwg | Layout Tab: Con1

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1											
57.83	09/23/87	33.40	10.0-35.0	24.43**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/24/87	33.24		24.59**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	10/06/87	33.39		24.44**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/05/87	34.14		23.69**	0.31	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/13/87	34.15		23.68**	0.38	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/19/87	33.89		23.94**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	04/27/88	32.40		25.43**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/07/88	DRY		--	--	--	--	--	--	--	--
	10/03/88	DRY		--	--	--	--	--	--	--	--
	01/27/89	DRY		--	--	--	--	--	--	--	--
	02/16/90	DRY		--	--	--	--	--	--	--	--
	07/19/90	DRY		--	--	--	--	--	--	--	--
	08/24/90	DRY		--	--	--	--	--	--	--	--
	11/30/90	DRY		--	--	--	--	--	--	--	--
	02/06/91	DRY		--	--	--	--	--	--	--	--
	05/06/91	33.00		24.83	0.00	--	--	--	--	--	--
	09/27/91	DRY		--	--	--	--	--	--	--	--
	03/31/92	31.00		26.83	0.00	330,000	8,200	33,000	6,800	36,000	--
	06/18/92	32.76		25.07	0.00	680,000	9,000	40,000	7,600	44,000	--
	10/16/92	DRY		--	--	--	--	--	--	--	--
	11/18/92	DRY		--	--	--	--	--	--	--	--
	03/03/93	26.03		31.80	0.00	330,000	3,800	21,000	4,200	24,000	--
	06/25/93	28.36		29.47	0.00	160,000	4,300	36,000	5,800	34,000	--
	09/03/93	30.80		27.03	0.00	160,000	3,900	41,000	6,800	38,000	--
	12/13/93	32.73		25.10	0.00	140,000	3,600	37,000	7,100	40,000	--
	03/18/94	30.10		27.73	0.00	99,000	3,800	37,000	6,800	36,000	--
	06/23/94	31.32		26.51	0.00	150,000	2,500	33,000	6,400	37,000	--
	09/21/94	33.21		24.62	0.00	110,000	2,500	23,000	4,500	25,000	--
	12/19/94	30.97		26.86	0.00	200,000	2,400	28,000	6,600	37,000	--
	03/27/95	22.77		35.06	0.00	88,000	1,500	20,000	4,200	25,000	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	06/26/95	25.69	10.0-35.0	32.14	0.00	130,000	1,000	23,000	5,600	33,000	--
(cont)	07/28/95	26.97		30.86	0.00	--	--	--	--	--	--
	09/28/95	29.55		28.28	0.00	100,000	810	21,000	6,500	37,000	--
	10/24/95	29.99		27.84	0.00	--	--	--	--	--	--
	12/29/95	30.40		27.43	0.00	110,000	990	22,000	8,300	47,000	--
	03/27/96	22.29		35.54	0.00	120,000	920	17,000	7,100	41,000	180
	09/21/96	29.44		28.39	0.00	110,000	270	3,500	5,900	16,000	260
	03/31/97	24.18		33.65	0.00	82,000	240	8,700	3,800	23,000	ND
	09/27/97	31.86		25.97	0.00	81,000	ND	1,000	5,900	31,000	ND
	03/20/98	16.88		40.95	0.00	52,000	ND[5]	350	2,900	14,000	ND[5]
	09/09/98	26.21		31.62	0.00	59,000	51	64	6,000	4,800	ND[5]
	03/11/99	23.60		34.23	0.00	60,000	130	ND[5]	2,900	12,000	ND[5]
	09/08/99	28.70		29.13	0.00	74,000[7]	ND[5]	ND[5]	2,600	10,000	ND[5]
	03/24/00	21.61		36.22	0.00	37,000[7]	ND[5]	ND[5]	1,980	6,880	ND[5]
	09/15/00	28.19		29.64	0.00	45,800[9]	ND[5]	ND[5]	3,150	10,500	ND[5]
	03/16/01	25.59		32.24	0.00	37,500	76.2	16.6	2,010	7,330	ND
	08/31/01	29.03		28.80	0.00	62,000[10]	79	<50	3,000	13,000	<250
	03/15/02	**25.58**		**32.25**	**0.00**	**26,000**	**43**	**22**	**2,400**	**10,000**	**<100**
MW-2											
58.13	10/03/88	36.04	23.0-48.0	22.09	0.00	1,760	47.8	7.4	20.9	81.6	--
	01/27/89	34.77		23.36	0.00	510	58	8.7	22.6	20.3	--
	02/16/90	34.50		23.63	0.00	840	50	0.5	28	44	--
	05/01/90	--		--	--	1,000	39	ND	32	52	--
	07/19/90	35.72		22.41	0.00	--	--	--	--	--	--
	08/24/90	36.30		21.83	0.00	330	17	ND	19	20	--
	11/30/90	37.40		20.73	0.00	400	41	ND	39	37	--
	02/07/91	37.27		20.86	0.00	510	40	ND	29	44	--
	05/06/91	33.31		24.82	0.00	2,300	150	10	52	110	--
	09/27/91	36.86		21.27	0.00	110	2.6	ND	5.6	5.1	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	12/27/91	37.66	28.0-48.0	20.47	0.00	170	3.9	ND	7.3	60	--
(cont)	03/31/92	37.66		20.47	0.00	--	--	--	--	--	--
	06/18/92	31.27		26.86	0.00	1,200	35	1.6	56	26	--
	09/30/92	--		--	--	820	21	ND	42	25	--
	10/16/92	35.87		22.26	0.00	--	--	--	--	--	--
	11/18/92	36.24		21.89	0.00	65	1.2	ND	2.8	1.4	--
	03/03/93	26.30		31.83	0.00	4,200	62	2.9	97	120	--
	06/25/93	28.40		29.73	0.00	4,000	110	ND	320	280	--
	09/03/93	31.10		27.03	0.00	1,400	31	4.3	99	53	--
	12/13/93	33.03		25.10	0.00	260	7.7	0.83	17	23	--
	03/18/94	30.34		27.79	0.00	250	6.4	0.64	28	24	--
	06/23/94	31.63		26.50	0.00	420	3.9	0.66	23	11	--
	09/21/94	33.52		24.61	0.00	ND	ND	ND	ND	ND	--
	12/19/94	31.26		26.87	0.00	190	1.9	ND	15	6.8	--
	03/27/95[2]	23.02		35.11	0.00	ND	ND	0.55	1.2	2.5	--
	06/26/95	25.98		32.15	0.00	ND	ND	0.93	0.88	3.4	--
	07/28/95	27.26		30.87	0.00	--	--	--	--	--	--
	09/28/95	29.77		28.36	0.00	730	2.9	ND	41	29	--
	10/24/95	30.56		27.57	0.00	--	--	--	--	--	--
	12/29/95	30.25		27.88	0.00	860	4.3	1.0	27	50	--
	03/27/96	22.30		35.83	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)				--	--
	09/21/96	29.47		28.66	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)				--	--
	03/31/97	24.20		33.93	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.07		27.06	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	16.73		41.40	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.03		32.10	0.00	ND	ND	0.54	ND	0.57	ND
	03/11/99	23.46		34.67	0.00	ND	ND	0.59	ND	1.1	ND
	09/08/99	28.53		29.60	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	21.45		36.68	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	28.02		30.11	0.00	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	03/16/01	25.41	28.0-48.0	32.72	0.00	ND	ND	ND	ND	ND	ND
(cont)	08/31/01	28.74		29.39	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**25.45**		**32.68**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-3											
57.92	10/03/88	35.86	23.0-48.0	22.06	0.00	61,000	1,060	3,380	1,520	8,720	--
	01/27/89	34.60		23.32	0.00	39,000	1,570	2,830	1,250	7,070	--
	02/16/90	35.23		22.69	0.00	22,000	710	4,100	6,900	33,000	--
	05/01/90	--		--	--	19,000	330	170	310	1,500	--
	07/19/90	35.50		22.42	0.00	--	--	--	--	--	--
	08/24/90	36.08		21.84	0.00	19,000	480	160	510	1,500	--
	11/30/90	37.17		20.75	0.00	13,000	390	81	410	1,000	--
	02/06/91	37.07		20.85	0.00	13,000	310	150	380	1,200	--
	05/06/91	33.11		24.81	0.00	39,000	1,000	570	930	3,900	--
	09/27/91	36.64		21.28	0.00	4,000	160	84	180	560	--
	12/27/91	37.46		20.46	0.00	31,000	240	280	400	1,600	--
	03/31/92	31.10		26.82	0.00	100,000	1,900	1,900	2,300	9,400	--
	06/18/92	32.83		25.09	0.00	180,000	2,200	1,700	2,300	1,100	--
	09/30/92	--		--	--	36,000	730	200	1,000	4,400	--
	10/16/92	35.66		22.26	0.00	--	--	--	--	--	--
	11/18/92	36.04		21.88	0.00	24,000[1]	430	160	640	2,800	--
	03/03/93	26.11		31.81	0.00	96,000[1]	1,400	1,900	1,400	8,400	--
	06/25/93	28.43		29.49	0.00	27,000	1,200	980	1,700	6,900	--
	09/03/93	30.88		27.04	0.00	82,000	2,400	3,400	4,200	21,000	--
	12/13/93	32.82		25.10	0.00	49,000	1,300	360	2,300	9,200	--
	03/18/94	30.17		27.75	0.00	22,000	1,200	430	2,200	9,700	--
	06/23/94	31.42		26.50	0.00	37,000	1,300	670	3,100	14,000	--
	09/21/94	33.30		24.62	0.00	24,000	890	110	2,200	8,800	--
	12/19/94	31.07		26.85	0.00	100,000	1,200	2,900	4,200	23,000	--
	03/27/95[2]	22.78		35.14	0.00	33,000	410	66	1,600	6,500	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	06/26/95	25.78	23.0-48.0	32.14	0.00	14,000	300	ND	1,300	3,900	--
(cont)	07/28/95	27.06		30.86	0.00	--	--	--	--	--	--
	09/28/95	29.57		28.35	0.00	17,000	730	30	4,000	8,800	--[3]
	10/24/95	30.34		27.58	0.00	--	--	--	--	--	--
	12/29/95	29.91		28.01	0.00	55,000	700	ND	4,900	16,000	--[4]
	03/27/96	21.99		35.93	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)				--	--
	09/21/96	29.15		28.77	0.00	34,000	140	ND	2,200	6,600	1,800
	03/31/97	23.86		34.06	0.00	17,000	58	110	530	1,500	ND
	09/27/97	30.76		27.16	0.00	11,000	19	ND	850	420	140
	03/20/98	16.39		41.53	0.00	ND	ND	ND	ND	ND	74
	09/09/98	25.70		32.22	0.00	ND[5]	ND[5]	ND[5]	ND[5]	ND[5]	ND[5]
	03/11/99	23.12		34.80	0.00	7,300	ND	ND	320	210	ND
	09/08/99	28.21		29.71	0.00	7,900[7]	ND[5]	ND[5]	ND[5]	160	ND[5]
	03/24/00	21.12		36.80	0.00	3,310[7]	5.40	ND[5]	101	43.3	ND[5]
	09/15/00	27.68		30.24	0.00	1,540[9]	ND[5]	ND[5]	56.4	ND	ND/12.6[8]
	03/16/01	25.09		32.83	0.00	678	3.14	1.00	16.4	14.6	42.9
	08/31/01	28.53		29.39	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**25.05**		**32.87**	**0.00**	**1,500**	**<2.5**	**<2.5**	**43**	**<2.5**	**<12**
MW-4											
58.29	10/03/88	36.12	23.0-48.0	22.17	0.00	ND	ND	ND	ND	ND	--
	01/27/89	34.87		23.42	0.00	ND	ND	ND	ND	ND	--
	02/16/90	35.60		22.69	0.00	ND	ND	ND	ND	ND	--
	05/01/90	--		--	--	ND	ND	ND	0.68	1.4	--
	07/19/90	35.78		22.51	0.00	--	--	--	--	--	--
	08/24/90	36.35		21.94	0.00	ND	ND	ND	ND	ND	--
	11/30/90	37.46		20.83	0.00	ND	ND	ND	ND	1.2	--
	02/06/91	37.40		20.89	0.00	ND	ND	ND	ND	ND	--
	05/06/91	33.39		24.90	0.00	--	--	--	--	--	--
	09/27/91	36.90		21.39	0.00	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	12/27/91	37.76	23.0-48.0	20.53	0.00	ND	ND	ND	ND	ND	--
(cont)	03/31/92	31.41		26.88	0.00	ND	ND	ND	ND	ND	--
	06/18/92	33.09		25.20	0.00	ND	ND	ND	ND	ND	--
	10/16/92	35.92		22.37	0.00	ND	ND	ND	ND	ND	--
	11/18/92	36.33		21.96	0.00	--	--	--	--	--	--
	03/03/93	26.43		31.86	0.00	68	0.9	0.6	ND	1.9	--
	06/25/93	28.60		29.69	0.00	--	--	--	--	--	--
	09/03/93	31.05		27.24	0.00	86	14	13	1.4	7.1	--
	12/13/93	33.09		25.20	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	03/18/94	30.42		27.87	0.00	ND	ND	ND	ND	ND	--
	06/23/94	31.95		26.34	0.00	--	--	--	--	--	--
	09/21/94	33.86		24.43	0.00	ND	ND	0.78	ND	0.81	--
	12/19/94	31.72		26.57	0.00	--	--	--	--	--	--
	03/27/95	23.44		34.85	0.00	ND	ND	0.79	0.5	3.1	--
	06/26/95	26.26		32.03	0.00	--	--	--	--	--	--
	07/28/95	27.53		30.76	0.00	--	--	--	--	--	--
	09/28/95	30.05		28.24	0.00	ND	ND	ND	ND	ND	--[3]
	10/24/95	30.79		27.50	0.00	--	--	--	--	--	--
	12/29/95	30.96		27.33	0.00	--	--	--	--	--	--
	03/27/96	22.71		35.58	0.00	ND	ND	0.70	ND	0.79	ND
	09/21/96	29.88		28.41	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	24.72		33.57	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.68		26.61	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	17.27		41.02	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.58		31.71	0.00	ND	ND	ND	ND	0.65	3.0
	03/11/99	24.12		34.17	0.00	ND	ND	0.70	ND	1.2	ND
	09/08/99	29.18		29.11	0.00	ND	ND	ND	ND	0.78	ND
	03/24/00	22.08		36.21	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	28.63		29.66	0.00	ND	ND	1.36	ND	1.46	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	03/16/01	26.14	23.0-48.0	32.15	0.00	ND	ND	ND	ND	ND	ND
(cont)	08/31/01	29.27		29.02	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**26.07**		**32.22**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-5											
58.50	02/16/90	35.89	25.0-45.0	22.61	0.00	67	0.51	1.6	2.9	7.5	--
	05/01/90	--		--	--	ND	ND	ND	ND	ND	--
	07/19/90	36.10		22.40	0.00	--	--	--	--	--	--
	08/24/90	36.67		21.83	0.00	ND	ND	ND	ND	ND	--
	11/30/90	37.74		20.76	0.00	ND	ND	0.7	ND	ND	--
	02/06/91	37.62		20.88	0.00	ND	ND	ND	ND	ND	--
	05/06/91	33.67		24.83	0.00	--	--	--	--	--	--
	09/27/91	37.23		21.27	0.00	ND	ND	ND	ND	ND	--
	12/27/91	38.02		20.48	0.00	ND	ND	ND	ND	ND	--
	03/31/92	31.62		26.88	0.00	ND	ND	ND	ND	1.1	--
	06/18/92	33.46		25.04	0.00	--	--	--	--	--	--
	10/16/92	36.23		22.27	0.00	ND	ND	ND	ND	ND	--
	11/18/92	36.62		21.88	0.00	--	--	--	--	--	--
	03/03/93	26.62		31.88	0.00	ND	ND	ND	ND	ND	--
	06/25/93	INACCESSIBLE		--	--	--	--	--	--	--	--
	09/03/93	31.45		27.05	0.00	ND	ND	1.5	ND	7.9	--
	12/13/93	33.39		25.11	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	03/18/94	30.67		27.83	0.00	ND	ND	ND	ND	ND	--
	06/23/94	32.00		26.50	0.00	--	--	--	--	--	--
	09/21/94	33.90		24.60	0.00	ND	ND	0.98	ND	1.6	--
	12/19/94	31.63		26.87	0.00	--	--	--	--	--	--
	03/27/95	23.44		35.06	0.00	ND	ND	0.66	ND	2.9	--
	06/26/95	26.35		32.15	0.00	--	--	--	--	--	--
	07/28/95	27.63		30.87	0.00	--	--	--	--	--	--
	09/28/95	30.15		28.35	0.00	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	10/24/95	30.98	25.0-45.0	27.52	0.00	--	--	--	--	--	--
(cont)	12/29/95	30.87		27.63	0.00	--	--	--	--	--	--
	03/27/96	22.75		35.75	0.00	ND	ND	1.7	ND	2.4	ND
	09/21/96	29.95		28.55	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	24.80		33.70	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.65		26.85	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	17.31		41.19	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.63		31.87	0.00	ND	ND	ND	ND	ND	ND
	03/11/99	24.08		34.42	0.00	ND	ND	0.96	ND	1.7	ND
	09/08/99	29.16		29.34	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	22.06		36.44	0.00	ND	ND	ND	ND	0.957	ND
	09/15/00	28.64		29.86	0.00	ND	ND	ND	ND	ND	ND
	03/16/01	26.05		32.45	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	29.32		29.18	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**26.08**		**32.42**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-6											
56.96	02/16/90	34.50	25.0-45.0	22.46	0.00	ND	ND	ND	ND	ND	--
	05/01/90	--		--	--	ND	ND	ND	ND	ND	--
	07/19/90	34.74		22.22	0.00	ND	ND	ND	ND	ND	--
	08/24/90	35.32		21.64	0.00	ND	ND	ND	ND	ND	--
	11/30/90	36.38		20.58	0.00	ND	ND	ND	ND	ND	--
	02/06/91	36.27		20.69	0.00	ND	ND	ND	ND	ND	--
	05/06/91	32.41		24.55	0.00	--	--	--	--	--	--
	09/27/91	35.87		21.09	0.00	ND	ND	ND	ND	ND	--
	12/27/91	36.67		20.29	0.00	ND	ND	ND	ND	ND	--
	03/31/92	30.32		26.64	0.00	ND	ND	1.3	ND	2	--
	06/18/92	32.18		24.78	0.00	ND	ND	ND	ND	ND	--
	10/16/92	34.92		22.04	0.00	ND	ND	ND	ND	ND	--
	11/18/92	35.28		21.68	0.00	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	03/03/93	25.43	25.0-45.0	31.53	0.00	ND[1]	ND	ND	ND	ND	--
(cont)	06/25/93	27.86		29.10	0.00	--	--	--	--	--	--
	09/03/93	30.25		26.71	0.00	ND	ND	ND	ND	ND	--
	12/13/93	32.14		24.82	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	03/18/94	29.46		27.50	0.00	ND	ND	0.93	ND	1.4	--
	06/23/94	30.76		26.20	0.00	--	--	--	--	--	--
	09/21/94	32.62		24.34	0.00	ND	ND	ND	ND	ND	--
	12/19/94	30.32		26.64	0.00	--	--	--	--	--	--
	03/27/95	22.10		34.86	0.00	56	ND	0.65	ND	3.3	--
	06/26/95	25.20		31.76	0.00	--	--	--	--	--	--
	07/28/95	26.48		30.48	0.00	--	--	--	--	--	--
	09/28/95	28.92		28.04	0.00	ND	ND	ND	ND	ND	--
	10/24/95	29.73		27.23	0.00	--	--	--	--	--	--
	12/29/95	29.62		27.34	0.00	--	--	--	--	--	--
	03/27/96	21.59		35.37	0.00	50	ND	0.92	ND	0.96	ND
	09/21/96	28.72		28.24	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	23.72		33.24	0.00	73	0.67	0.82	ND	ND	ND
	09/27/97	30.52		26.44	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	16.35		40.61	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	25.53		31.43	0.00	ND	ND	0.64	ND	0.65	3.3
	03/11/99	22.85		34.11	0.00	ND	ND	0.71	ND	1.4	ND
	09/08/99	28.01		28.95	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	20.93		36.03	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	27.51		29.45	0.00	ND	ND	ND	ND	ND	ND
	03/16/01	24.87		32.09	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	28.20		28.76	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**24.82**		**32.14**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7											
57.25	02/16/90	35.75	24.0-44.0	21.50	0.00	ND	ND	ND	ND	ND	--
	05/01/90	--		--	--	24	ND	ND	0.74	1.7	--
	07/19/90	35.03		22.22	0.00	--	--	--	--	--	--
	08/24/90	35.64		21.61	0.00	ND	ND	ND	ND	ND	--
	11/30/90	36.68		20.57	0.00	ND	ND	ND	0.6	1.5	--
	02/06/91	36.55		20.70	0.00	ND	ND	ND	ND	ND	--
	05/06/91	32.69		24.56	0.00	ND	ND	ND	ND	ND	--
	09/27/91	36.18		21.07	0.00	ND	ND	ND	ND	ND	--
	12/27/91	36.96		20.29	0.00	ND	ND	ND	ND	ND	--
	03/31/92	30.56		26.69	0.00	ND	ND	ND	ND	0.9	--
	06/18/92	32.52		24.73	0.00	--	--	--	--	--	--
	10/16/92	35.24		22.01	0.00	ND	ND	ND	ND	ND	--
	11/18/92	35.59		21.66	0.00	--	--	--	--	--	--
	03/03/93	25.66		31.59	0.00	ND	ND	ND	ND	ND	--
	06/25/93	28.25		29.00	0.00	--	--	--	--	--	--
	09/03/93	30.60		26.65	0.00	ND	ND	ND	ND	ND	--
	12/13/93	32.45		24.80	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	03/18/94	29.76		27.49	0.00	ND	ND	ND	ND	ND	--
	06/23/94	31.10		26.15	0.00	--	--	--	--	--	--
	09/21/94	32.96		24.29	0.00	ND	0.5	ND	ND	0.89	--
	12/19/94	30.60		26.65	0.00	--	--	--	--	--	--
	03/27/95	22.43		34.82	0.00	ND	ND	0.54	ND	1.9	--
	06/26/95	25.55		31.70	0.00	--	--	--	--	--	--
	07/28/95	26.84		30.41	0.00	--	--	--	--	--	--
	09/28/95	29.29		27.96	0.00	ND	ND	ND	ND	ND	--[3]
	10/24/95	30.05		27.20	0.00	--	--	--	--	--	--
	12/29/95	29.91		27.34	0.00	--	--	--	--	--	--
	03/27/96	21.94		35.31	0.00	ND	ND	1.1	ND	1.7	ND
	09/21/96	29.07		28.18	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	24.02		33.23	0.00	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	09/27/97	30.84	24.0-44.0	26.41	0.00	ND	ND	ND	ND	ND	ND
(cont)	03/20/98	16.68		40.57	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	25.89		31.36	0.00	ND	ND	ND	ND	ND	4.1
	03/11/99	23.16		34.09	0.00	ND	ND	0.91	ND	1.6	5.7
	09/08/99	28.32		28.93	0.00	ND	ND	ND	ND	ND	2.7
	03/24/00	21.23		36.02	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	27.83		29.42	0.00	ND	ND	ND	ND	ND	ND
	03/16/01	25.15		32.10	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	28.49		28.76	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**24.96**		**32.29**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-8											
57.71	02/16/90	35.10	24.0-44.0	22.61	0.00	1,900	11	ND	52	55	--
	05/01/90	--		--	--	770	6.5	ND	20	32	--
	07/19/90	35.41		22.30	0.00	--	--	--	--	--	--
	08/24/90	36.00		21.71	0.00	990	13	ND	48	66	--
	11/30/90	37.08		20.63	0.00	570	13	ND	45	36	--
	02/06/91	36.92		20.79	0.00	630	9.6	ND	35	36	--
	05/06/91	33.03		24.68	0.00	14,000	80	ND	250	550	--
	09/27/91	36.55		21.16	0.00	720	13	4.3	26	26	--
	12/27/91	37.34		20.37	0.00	1,600	15	2.9	40	49	--
	03/31/92	31.93[6]		25.78	0.00	15,000	120	1.0	430	530	--
	06/18/92	INACCESSIBLE		--	--	--	--	--	--	--	--
	10/16/92	35.58		22.13	0.00	300	0.96	ND	4.0	3.5	--
	11/18/92	35.94		21.77	0.00	1,100	6.1	ND	13	5.6	--
	03/03/93	26.00		31.71	0.00	13,000	33	ND	160	290	--
	06/25/93	28.27		29.44	0.00	8,100	160	ND	580	740	--
	09/03/93	30.90		26.81	0.00	9,800	180	ND	580	700	--
	12/13/93	32.75		24.96	0.00	6,900	180	ND	240	550	--
	03/18/94	30.12		27.59	0.00	6,100	85	ND	260	260	--

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	06/23/94	31.40	24.0-44.0	26.31	0.00	12,000	210	ND	610	860	--
(cont)	09/21/94	33.30		24.41	0.00	6,900	190	ND	460	510	--
	12/19/94	30.95		26.76	0.00	6,200	91	ND	230	210	--
	03/27/95[2]	22.78		34.93	0.00	9,200	240	ND	200	1,400	--
	06/26/95	24.83		32.88	0.00	11,000	320	ND	680	2,000	--
	07/28/95	27.10		30.61	0.00	--	--	--	--	--	--
	09/28/95	29.58		28.13	0.00	10,000	250	ND	760	910	--[3]
	10/24/95	30.40		27.31	0.00	--	--	--	--	--	--
	12/29/95	30.25		27.46	0.00	7,500	260	ND	580	870	--[4]
	03/27/96	22.20		35.51	0.00	970	29	0.77	82	85	ND
	09/21/96	29.34		28.37	0.00	3,800	27	ND	46	45	ND
	03/31/97	24.35		33.36	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.15		26.56	0.00	78	0.90	ND	12	ND	ND
	03/20/98	16.84		40.87	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.14		31.57	0.00	910	ND	49	12	2.2	1.5
	03/11/99	23.48		34.23	0.00	4,700	9.6	ND[5]	280	95	ND[5]
	09/08/99	28.60		29.11	0.00	1,900[7]	ND[5]	ND[5]	36	ND[5]	ND[5]
	03/24/00	21.49		36.22	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	28.09		29.62	0.00	533[9]	2.23	ND	6.27	0.684	ND
	03/16/01	25.43		32.28	0.00	1,000	ND	ND	17.8	44.5	ND
	08/31/01	28.89		28.82	0.00	6,500[10]	8.6	7.4	420	1,900	<25
	03/15/02	**25.45**		**32.26**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-9											
56.47	12/19/94	29.71	20.0-45.0	26.76	0.00	ND	ND	1.6	1.5	8.4	--
	03/27/95	21.48		34.99	0.00	ND	ND	0.61	ND	2.8	--
	06/26/95	24.50		31.97	0.00	ND	ND	ND	ND	3.9	--
	07/28/95	25.77		30.70	0.00	--	--	--	--	--	--
	09/28/95	28.23		28.24	0.00	ND	ND	ND	ND	ND	--
	10/24/95	29.21		27.26	0.00	--	--	--	--	--	--

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	12/29/95	29.02	20.0-45.0	27.45	0.00	ND	ND	0.58	ND	0.52	--
(cont)	03/27/96	20.91		35.56	0.00	ND	ND	0.68	ND	0.51	ND
	09/21/96	28.05		28.42	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	23.48		32.99	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	30.38		26.09	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	15.60		40.87	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	24.85		31.62	0.00	ND	0.69	ND	ND	0.61	ND
	03/11/99	22.23		34.24	0.00	ND	ND	ND	ND	0.76	ND
	09/08/99	27.34		29.13	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	20.27		36.20	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	26.84		29.63	0.00	ND	ND	ND	ND	ND	ND
	03/16/01	24.24		32.23	0.00	ND	ND	ND	ND	ND	ND
	08/31/01	27.43		29.04	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**24.79**		**31.68**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-10											
58.94	07/28/95	25.53	20.0-45.0	33.41	0.00	ND	ND	ND	ND	ND	--
	09/28/95	--		--	--	--	--	--	--	--	--
	10/24/95	31.76		27.18	0.00	ND	ND	ND	ND	ND	--
	12/29/95	31.55		27.39	0.00	ND	ND	0.65	ND	1.1	--
	03/27/96	23.62		35.32	0.00	ND	ND	0.68	ND	0.69	ND
	09/21/96	30.77		28.17	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	26.05		32.89	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	32.80		26.14	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	18.13		40.81	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	27.54		31.40	0.00	ND	ND	0.55	ND	ND	ND
	03/11/99	24.85		34.09	0.00	ND	ND	0.61	ND	0.87	ND
	09/08/99	29.97		28.97	0.00	ND	ND	ND	ND	ND	ND
	03/24/00	22.90		36.04	0.00	ND	ND	ND	ND	ND	ND
	09/15/00	29.48		29.46	0.00	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	03/16/01	26.80	20.0-45.0	32.14	0.00	ND	ND	ND	ND	ND	ND
(cont)	08/31/01	30.05		28.89	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**26.61**		**32.33**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
Trip Blank											
TB-LB	03/20/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/09/98	--		--	--	ND	ND	ND	ND	ND	ND
	03/11/99	--		--	--	ND	ND	ND	ND	ND	ND
	09/08/99	--		--	--	ND	ND	ND	ND	ND	ND
	03/24/00	--		--	--	ND	ND	ND	ND	ND	ND
	09/15/00	--		--	--	ND	ND	ND	ND	ND	ND
	03/16/01	--		--	--	ND	ND	ND	ND	ND	ND
	08/31/01	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/15/02	**--**		**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367
500 Bancroft Avenue
San Leandro, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 20, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
S.I. = Screen Interval
(ft.bgs) = Feet Below Ground Surface
GWE = Groundwater Elevation
(msl) = 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
(ppm) = Parts per million
ND = Not Detected
-- = Not Measured/Not Analyzed

* TOC elevations have been surveyed relative to msl.

** GWE was not corrected due to the presence of free product.

1 Chromatogram contains early eluting peak.

2 On March 27, 1995, Total Dissolved Solid concentrations were as follows: MW-2 at 410 ppm; MW-3 at 450 ppm; MW-8 at 490 ppm.

3 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

4 Laboratory has identified the presence of MTBE at a level above or equal to the taste odor threshold of 40 ppb in the groundwater sample from this well.

5 Detection limit raised. Refer to analytical reports.

6 Data suspect; not used in water-elevation determination.

7 Laboratory report indicates gasoline C6-C12.

8 MTBE by EPA Method 8260.

9 Laboratory report indicates weathered gasoline C6-C12.

10 Laboratory report indicates unidentified hydrocarbons C6-C10.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	09/15/00	<1,000	<100	12.6	<2.00	<2.00	<2.00	<2.00	<2.00

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-1	03/27/95[1]	--	1.5
	06/26/95	--	1.60
	09/28/95	--	1.22
	12/29/95	--	1.74
	03/27/96	1.48	1.02
	09/21/96	--	1.01
	03/31/97	1.47	1.49
MW-2	03/27/95[1]	--	1.7
	06/26/95	--	4.55
	09/28/95	--	3.00
	12/29/95	--	8.71
	03/27/96	--	--
	09/21/96	--	--
	03/31/97	2.18	2.12
MW-3	03/27/95[1]	--	0.90
	06/26/95	--	1.55
	09/28/95	--	1.63
	12/29/95	--	6.97
	03/27/96	--	--
	09/21/96	--	--
	03/31/97	1.95	2.06
MW-4	03/27/95[1]	--	4.90
	06/26/95	--	--
	09/28/95	--	6.29
	12/29/95	--	--
	03/27/96	4.32	3.91
	09/21/96	--	2.82
	03/31/97	2.66	2.63
MW-5	03/27/95[1]	--	5.20
	06/26/95	--	--
	09/28/95	--	1.96
	12/29/95	--	--
	03/27/96	4.03	4.71
	09/21/96	--	4.12
	03/31/97	2.98	3.11

Table 3

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-6	03/27/95[1]	--	7.4
	06/26/95	--	--
	09/28/95	--	4.19
	12/29/95	--	--
	03/27/96	5.94	4.96
	09/21/96	--	3.74
	03/31/97	3.21	3.11
MW-7	03/27/95[1]	--	8.4
	06/26/95	--	--
	09/28/95	--	2.04
	12/29/95	--	--
	03/27/96	6.63	5.23
	09/21/96	--	1.19
	03/31/97	2.29	2.16
MW-8	03/27/95[1]	--	2.2
	06/26/95	--	3.86
	09/28/95	--	1.85
	12/29/95	--	2.03
	03/27/96	11.73	9.76
	09/21/96	--	2.16
	03/31/97	2.81	2.91
	09/27/97	3.11	--
	03/20/98	--	2.65
MW-9	03/27/95[1]	--	7.8
	06/26/95	--	4.61
	09/28/95	--	5.76
	12/29/95	--	5.32
	03/27/96	5.62	5.23
	09/21/96	--	4.13
	03/31/97	3.36	3.27
MW-10	12/29/95	--	5.11
	03/27/96	4.38	4.57
	09/21/96	--	5.38
	03/31/97	4.48	4.83

Table 3

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

EXPLANATIONS:

Dissolved oxygen concentrations prior to March 20, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter

-- = Not Measured

[1] The measurements were taken at Sequoia Analytical Laboratory.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

As requested by Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID MW-1 Well Condition: O.K

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 35.14 ft.

Depth to Water 25.58 ft.

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

9.56 X VF 0.17 = 1.63 X 3 (case volume) = Estimated Purge Volume: 5 (gal.)

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

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

Starting Time: 3:37 Weather Conditions: cloudy

Sampling Time: 4:02 p.m. (1602) Water Color: clear Odor: mild

Purging Flow Rate: 0.5 gpm Sediment Description:

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

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
3:42	1.5	7.27	3.97	64.6			
3:48	3	7.36	4.62	64.5			
3:51	5	7.31	4.72	64.7			

LABORATORY INFORMATION

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

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID: MW-2 Well Condition: O.K

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

Total Depth: 46.75 ft.

Depth to Water: 25.45 ft.

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

21.30 X VF 0.66 = 14.06 X 3 (case volume) = Estimated Purge Volume: 42 (gal.)

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

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

Starting Time: 9:45 Weather Conditions: cloudy/cold

Sampling Time: 10:21 Am (1021) Water Color: clear Odor: none

Purging Flow Rate: 3 gpm Sediment Description:

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

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:58	14	7.90	10.35	69.4			
10:04	28	7.60	10.42	69.6			
10:09	42	7.47	10.48	69.4			

LABORATORY INFORMATION

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

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID MW-3 Well Condition: O.k

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

Total Depth 47.98 ft.

Depth to Water 25.05 ft.

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

22.93 X VF 0.66 = 15.13 X 3 (case volume) = Estimated Purge Volume: 46 (gal.)

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

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

Starting Time: 2:56 Weather Conditions: cloudy

Sampling Time: 3:30 p.m. (1530) Water Color: clear Odor: Some

Purging Flow Rate: 3 gpm Sediment Description:

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)
3:18	15	7.19	5.87	69.8			
3:15	30	7.22	5.94	70.0			
3:20	46	7.31	5.91	69.6			

LABORATORY INFORMATION

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

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID mw-4 Well Condition: O.K

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

Total Depth 48.40 ft.

Depth to Water 26.07 ft.

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

22.33 X VF 0.66 = 14.74 X 3 (case volume) = Estimated Purge Volume: 45 (gal.)

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

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

Starting Time: 8:08 Weather Conditions: cloudy

Sampling Time: 8:47 Am (0847) Water Color: clear Odor: none

Purging Flow Rate: 3 gpm Sediment Description:

Did well de-water? Yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:25	15	7.47	7.36	69.6			
8:29	30	7.41	7.85	69.6			
8:34	45	7.37	7.82	69.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
mw-4	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID MW-5 Well Condition: O.K

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 44.30 ft.

Depth to Water 26.08 ft.

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

18.22 X VF 0.17 = 3.10 X 3 (case volume) = Estimated Purge Volume: 9.5 (gal.)

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

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

Starting Time: 9:02 Weather Conditions: cloudy/cold

Sampling Time: 9:30Am (0930) Water Color: clear Odor: none

Purging Flow Rate: ____ gpm. Sediment Description: ____

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

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:15	3	7.68	10.12	71.2			
9:17	6	7.52	10.16	70.4			
9:19	9.5	7.46	10.16	70.7			

LABORATORY INFORMATION

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

COMMENTS: ____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID mw-6 Well Condition: O.k

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 44.62 ft

Depth to Water 21.82 ft

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

19.8 X VF 0.17 = 3.37 X 3 (case volume) = Estimated Purge Volume: 10 (gal.)

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

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

Starting Time: 10:40 Weather Conditions: cloudy

Sampling Time: 11:07 Am (1107) Water Color: clear Odor: none

Purging Flow Rate: 1 gpm Sediment Description:

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

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:52	3.5	7.59	8.96	69.8			
10:54	7.5	7.62	9.18	70.5			
10:56	10.5	7.65	9.22	70.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
mw-6	3 x 40	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID: MW-7 Well Condition: O.K

Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth: 43.89 ft.

Depth to Water: 24.96 ft.

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

18.93 x VF 0.17 = 3.22 X 3 (case volume) = Estimated Purge Volume: 10 (gal.)

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

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

Starting Time: 11:20 Weather Conditions: cloudy

Sampling Time: 12:33 P.m (1233) Water Color: clear Odor: none

Purging Flow Rate: 1 gpm Sediment Description:

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

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:30	3.5	7.77	8.15	71.6			
11:32	7.5	7.65	8.12	71.5			
11:34	10	7.59	8.14	71.2			

LABORATORY INFORMATION

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

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID mw-8 Well Condition: O.K

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 43.71 ft.

Depth to Water 25.45 ft.

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

18.26 X VF 0.17 = 3.10 X 3 (case volume) = Estimated Purge Volume: 9.5 (gal.)

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

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

Starting Time: 2:17 Weather Conditions: cloudy

Sampling Time: 2:40 pm (1440) Water Color: clear Odor: none

Purging Flow Rate: 1 gpm Sediment Description:

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)
2:27	3	7.10	5.21	70.5			
2:29	6	7.08	5.23	71.0			
2:31	9.5	7.15	5.27	71.4			

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 # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

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

Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth: 44.53 ft.

Depth to Water: 24.79 ft.

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

19.74 X VF 0.17 = 3.36 X 3 (case volume) = Estimated Purge Volume: 10.5 (gal.)

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

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

Starting Time: 12:48 Weather Conditions: cloudy

Sampling Time: 1:15 p.m. (1315) Water Color: clear Odor: none

Purging Flow Rate: 1 gpm. Sediment Description: _____

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

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:01	3.5	7.66	11.31	73.1			
1:03	7.5	7.37	11.42	72.2			
1:05	10.5	7.43	11.46	72.1			

LABORATORY INFORMATION

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

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 5367 Job#: 180108

Address: 500 Bancroft Ave. Date: 3-15-02

City: San Leandro Sampler: Joe

Well ID: MW-10 Well Condition: O.K

Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth: 44.55 ft.

Depth to Water: 26.61 ft.

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

17.94 X VF 0.17 = 3.05 X 3 (case volume) = Estimated Purge Volume: 9.5 (gal.)

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

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

Starting Time: 1:38 Weather Conditions: cloudy

Sampling Time: 2:05 p.m. (1405) Water Color: clear Odor: none

Purging Flow Rate: ~1 gpm. Sediment Description:

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

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:46	3	7.47	10.08	72.1			
1:48	6	7.40	9.66	71.6			
1:50	9.5	7.45	9.61	71.4			

LABORATORY INFORMATION

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

COMMENTS:

GLOBAL ID# T0600101479

Chain-of-Custody-Record

TOSCO

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

Facility Number: Tosco #5367
Facility Address: 500 Bancroft Ave., San Leandro, CA
Consultant Project Number: 180108
Consultant Name: Gettler-Ryan Inc. (G-R Inc.)
Address: 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name): Deanna L. Harding
(Phone) (925) 551-7555 (Fax Number) 925-551-7899

Contact (Name): MR. Dave DeWitt
(Phone): 925-277-2384
Laboratory Name: Sequoia Analytical #2034.18
Laboratory Release Number:
Samples Collected by (Name): JOE ATENIAN
Collection Date: 3-15-02
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix W = Water S = Soil A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH as 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 CAM 17 Pb, Zn, Ni (TLC or AA)	DO NOT BILL TB-LB ANALYSIS / Remarks
TB-LB	01A	3 VOA	W	G	—	HCL	Y	✓								
MW-1	02A-C	3 VOA	"	"	1602	"	"	✓								
MW-2	03	"	"	"	1021	"	"	✓								
MW-3	04	"	"	"	1530	"	"	✓								
MW-4	05	"	"	"	0847	"	"	✓								
MW-5	06	"	"	"	0930	"	"	✓								
MW-6	07	"	"	"	1107	"	"	✓								
MW-7	08	"	"	"	1253	"	"	✓								
MW-8	09	"	"	"	1440	"	"	✓								
MW-9	10	"	"	"	1315	"	"	✓								
MW-10	11 V	"	"	"	1405	"	"	✓								

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	3-15-02 1722			3-16-02 722
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		3/25/02		SAJ	3-25 1330
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
	SAJ	3-25 1545		3/25/02	1545

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

SEQUOIA ANALYTICAL

04/01/02 03:54 :02/02 NO:274 925 988 9673

Sequoia Analytical

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1 April, 2002

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

RE: Tosco
Sequoia Report: W203418

Enclosed are the results of analyses for samples received by the laboratory on 15-Mar-02 17:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dimple Sharma For Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W203418-01	Water	15-Mar-02 00:00	15-Mar-02 17:22
MW-1	W203418-02	Water	15-Mar-02 16:02	15-Mar-02 17:22
MW-2	W203418-03	Water	15-Mar-02 10:21	15-Mar-02 17:22
MW-3	W203418-04	Water	15-Mar-02 15:30	15-Mar-02 17:22
MW-4	W203418-05	Water	15-Mar-02 08:47	15-Mar-02 17:22
MW-5	W203418-06	Water	15-Mar-02 09:30	15-Mar-02 17:22
MW-6	W203418-07	Water	15-Mar-02 11:07	15-Mar-02 17:22
MW-7	W203418-08	Water	15-Mar-02 12:33	15-Mar-02 17:22
MW-8	W203418-09	Water	15-Mar-02 14:40	15-Mar-02 17:22
MW-9	W203418-10	Water	15-Mar-02 13:15	15-Mar-02 17:22
MW-10	W203418-11	Water	15-Mar-02 14:05	15-Mar-02 17:22

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dimple Sharma For Charlie Westwater, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W203418-01) Water Sampled: 15-Mar-02 00:00 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	28-Mar-02	28-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94 %*	*70-130*		"	"	"	"	
MW-1 (W203418-02) Water Sampled: 15-Mar-02 16:02 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	**26000**	2000	ug/l	40	2C27003	28-Mar-02	28-Mar-02	EPA 8015M/8021	
Benzene	**43**	20	"	"	"	"	"	"	Q-28
Toluene	**22**	20	"	"	"	"	"	"	
Ethylbenzene	**2400**	20	"	"	"	"	"	"	
Xylenes (total)	**10000**	20	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97 %*	*70-130*		"	"	"	"	
MW-2 (W203418-03) Water Sampled: 15-Mar-02 10:21 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	28-Mar-02	28-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W203418-04) Water Sampled: 15-Mar-02 15:30 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	**1500**	250	ug/l	5	2C27003	28-Mar-02	28-Mar-02	EPA 8015M/8021	
Benzene	ND	2.5	"	"	"	"	"	"	Q-28
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	**43**	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	12	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93 %*	*70-130*		"	"	"	"	
MW-4 (W203418-05) Water Sampled: 15-Mar-02 08:47 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	29-Mar-02	29-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*118 %*	*70-130*		"	"	"	"	
MW-5 (W203418-06) Water Sampled: 15-Mar-02 09:30 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	29-Mar-02	29-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W203418-07) Water Sampled: 15-Mar-02 11:07 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	29-Mar-02	29-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*70-130*		"	"	"	"	
MW-7 (W203418-08) Water Sampled: 15-Mar-02 12:33 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	29-Mar-02	29-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	Q-28a
Surrogate: a,a,a-Trifluorotoluene		*99 %*	*70-130*		"	"	"	"	
MW-8 (W203418-09) Water Sampled: 15-Mar-02 14:40 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	29-Mar-02	29-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	Q-28a
Surrogate: a,a,a-Trifluorotoluene		*99 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W203418-10) Water Sampled: 15-Mar-02 13:15 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	29-Mar-02	29-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	Q-28a
Surrogate: a,a,a-Trifluorotoluene		*96 %*	*70-130*		"	"	"	"	
MW-10 (W203418-11) Water Sampled: 15-Mar-02 14:05 Received: 15-Mar-02 17:22									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2C27003	29-Mar-02	29-Mar-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28b
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C27003 - EPA 5030B P/T										
Blank (2C27003-BLK1)				Prepared & Analyzed: 28-Mar-02						
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*30.0*		"	*30.0*		*100*	*70-130*			
Blank (2C27003-BLK2)				Prepared: 28-Mar-02 Analyzed: 29-Mar-02						
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*29.8*		"	*30.0*		*99*	*70-130*			
Blank (2C27003-BLK3)				Prepared & Analyzed: 29-Mar-02						
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*32.7*		"	*30.0*		*109*	*70-130*			
Blank (2C27003-BLK4)				Prepared & Analyzed: 29-Mar-02						
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*31.7*		"	*30.0*		*106*	*70-130*			

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C27003 - EPA 5030B P/T										
LCS (2C27003-BS1)				Prepared & Analyzed: 28-Mar-02						
Benzene	16.8	0.50	ug/l	20.0		84	70-130			
Toluene	18.6	0.50	"	20.0		93	70-130			
Ethylbenzene	17.9	0.50	"	20.0		90	70-130			
Xylenes (total)	59.9	0.50	"	60.0		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.9*		"	*30.0*		*96*	*70-130*			
LCS (2C27003-BS2)				Prepared & Analyzed: 29-Mar-02						
Benzene	16.6	0.50	ug/l	20.0		83	70-130			
Toluene	20.5	0.50	"	20.0		102	70-130			
Ethylbenzene	20.2	0.50	"	20.0		101	70-130			
Xylenes (total)	64.0	0.50	"	60.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*33.7*		"	*30.0*		*112*	*70-130*			
LCS (2C27003-BS3)				Prepared & Analyzed: 29-Mar-02						
Benzene	20.6	0.50	ug/l	20.0		103	70-130			
Toluene	20.1	0.50	"	20.0		100	70-130			
Ethylbenzene	18.9	0.50	"	20.0		94	70-130			
Xylenes (total)	57.3	0.50	"	60.0		96	70-130			
Surrogate: a,a,a-Trifluorotoluene	*32.0*		"	*30.0*		*107*	*70-130*			
LCS (2C27003-BS4)				Prepared & Analyzed: 29-Mar-02						
Benzene	18.8	0.50	ug/l	20.0		94	70-130			
Toluene	18.5	0.50	"	20.0		92	70-130			
Ethylbenzene	18.3	0.50	"	20.0		92	70-130			
Xylenes (total)	58.6	0.50	"	60.0		98	70-130			
Surrogate: a,a,a-Trifluorotoluene	*31.4*		"	*30.0*		*105*	*70-130*			
LCS Dup (2C27003-BSD1)				Prepared: 29-Mar-02 Analyzed: 30-Mar-02						
Benzene	17.9	0.50	ug/l	20.0		90	70-130	6	20	
Toluene	18.5	0.50	"	20.0		92	70-130	0.5	20	
Ethylbenzene	18.3	0.50	"	20.0		92	70-130	2	20	
Xylenes (total)	58.0	0.50	"	60.0		97	70-130	3	20	
Surrogate: a,a,a-Trifluorotoluene	*31.6*		"	*30.0*		*105*	*70-130*			

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	01-Apr-02 14:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C27003 - EPA 5030B P/T										
Matrix Spike (2C27003-MS1)		**Source: W203415-06**		Prepared: 28-Mar-02 Analyzed: 29-Mar-02						
Benzene	12.6	0.50	ug/l	20.0	ND	63	70-130			QM-07
Toluene	19.2	0.50	"	20.0	ND	96	70-130			
Ethylbenzene	18.9	0.50	"	20.0	ND	94	70-130			
Xylenes (total)	59.5	0.50	"	60.0	ND	99	70-130			
Surrogate: a,a,a-Trifluorotoluene	*29.6*		"	*30.0*		*99*	*70-130*			
Matrix Spike Dup (2C27003-MSD1)		**Source: W203415-06**		Prepared: 28-Mar-02 Analyzed: 29-Mar-02						
Benzene	10.1	0.50	ug/l	20.0	ND	50	70-130	22	20	QM-07,QR-07
Toluene	20.3	0.50	"	20.0	ND	102	70-130	6	20	
Ethylbenzene	20.5	0.50	"	20.0	ND	102	70-130	8	20	
Xylenes (total)	64.0	0.50	"	60.0	ND	107	70-130	7	20	
Surrogate: a,a,a-Trifluorotoluene	*31.0*		"	*30.0*		*103*	*70-130*			

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Notes and Definitions

Q-28	The opening calibration verification standard was outside acceptance criteria by -22%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
Q-28a	The opening calibration verification standard was outside acceptance criteria by -7.5%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
Q-28b	The opening calibration verification standard was outside acceptance criteria by -8.5%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-07	The RPD was outside control limits. The results may still be useful for their intended purpose.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference