GETTLER-RYAN INC.

April 2, 2002
G-R Job #180067

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

RE: Annual Event of February 22, 2002
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, 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 presented in Table 3 A Potentiometric Map is included as Figure 1

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached) The field data sheets are also attached The samples were analyzed by Sequoia Analytical Analytical results are summarized in Tables 1, 2 and 4 A Concentration Map is included as Figure 2 The chain of custody document and laboratory analytical reports are also attached

Sincerely,

Deanna L. Harding

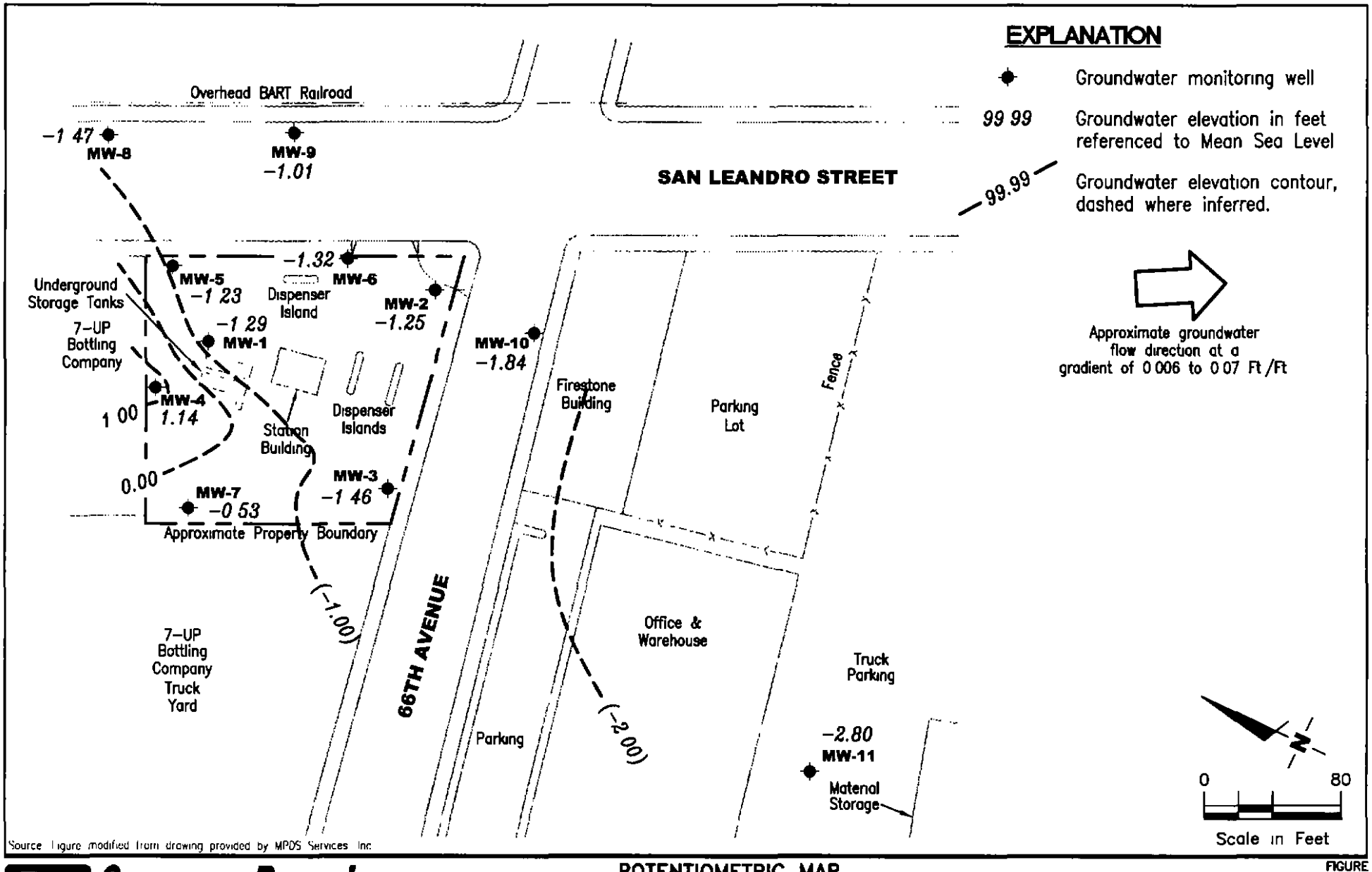
Deanna L Harding
Project Coordinator

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
Table 4	Groundwater Analytical Results
Attachments	Standard Operating Procedure - Groundwater Sampling Field Data Sheets
3135 qml	Chain of Custody Document and Laboratory Analytical Reports

3135 SS X BP
QM X TRANSMITTAL
1 2 3 4 5 6



Source figure modified from drawing provided by MPDS Services Inc

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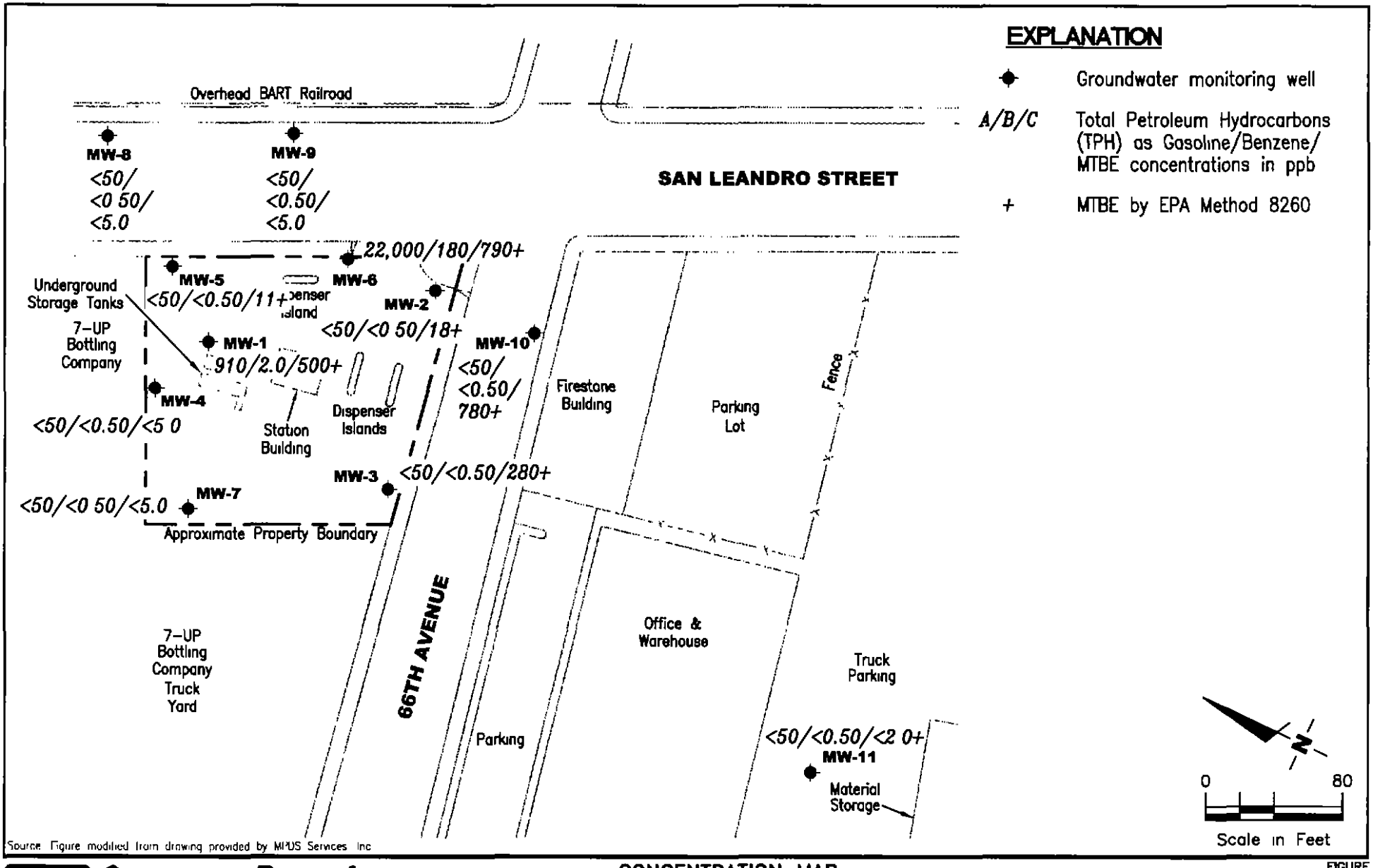
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180067		February 22, 2002	

FILE NAME P:\Enviro\TOSCO\3135\Q02-3135.DWG | Layout Tab Pat1



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CONCENTRATION MAP
Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180067		February 22, 2002	

FILL NAME P:\Enviro\TOSCO\3135\Q02-3135.DWG | Layout Tab: Con1

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft)		DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1		05/11/90	--	--	--	22,000	590	42	1 200	3,600	--
		08/28/90	--	--	--	1 700	140	1 4	180	150	--
	(D)	08/28/90	--	--	--	2 600	180	3	810	270	--
		11/26/90	--	--	--	2,900	160	2 3	330	320	--
		02/21/91	--	--	690	26,000	280	39	1 200	1,900	--
		08/05/91	--	--	200	1 200	95	6 2	230	80	--
		11/05/91	--	--	260	4,900	80	ND	150	160	--
		02/07/92	--	--	ND	220	2 1	ND	10	16	-
		05/05/92	--	--	120	310	5 7	ND	7 1	15	--
		08/03/92	--	--	220[4]	980	22	0 69	77	82	--
		11/03/92	--	--	400[4]	1,100	28	ND	80	78	--
		02/03/93	--	--	ND	94[7]	ND	ND	1 4	1 6	--
5 18		03/01/93	7 30	-2 12	--	--	--	--	--	--	--
		04/01/93	7 12	-1 94	--	--	--	--	--	--	--
		05/17/93	8 25	-3 07	490[5]	960[7]	39	ND	57	60	--
		06/15/93	INACCESSIBLE	--	--	--	--	-	--	--	--
		07/14/93	9 48	-4 30	--	--	--	--	--	--	--
		08/13/93	10 00	-4 82	170[5]	860	3 5	ND	17	20	--
		09/13/93	10 40	-5 22	--	--	--	--	--	--	--
		10/14/93	10 73	-5 55	--	--	--	--	--	--	--
4 99		11/11/93	10 80	-5 81	160[5]	930	7 3	ND	25	19	--
		12/14/93	9 50	-4 51	--	--	--	--	--	--	--
		01/10/94	9 80	-4 81	--	--	--	--	--	--	--
		02/10/94	8 58	-3 59	ND	170[6]	0 9	2 3	ND	ND	--
		03/14/94	7 73	-2 74	--	--	--	--	--	--	--
		04/23/94	8 28	-3 29	--	--	--	--	--	--	--
		05/05/94	8 11	-3 12	ND	96[6]	ND	ND	ND	ND	--
		06/07/94	8 09	-3 10	--	--	--	--	--	--	--
		07/05/94	8 43	-3 44	--	--	--	--	--	--	--
		08/02/94	8 76	-3 77	130[5]	700	13	0 62	2	3 6	--
		11/07/94	8 26	-3 27	270[4]	890	16	ND	31	21	--
		12/03/94	6 59	-1 60	--	--	--	--	--	--	--

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	01/10/95	6 12	-1 13	--	--	--	--	--	--	--
(cont)	02/01/95	6 04	-1 05	ND	120	1 7	ND	ND	ND	--
	03/03/95	6 73	-1 74	--	--	--	--	--	--	--
	05/02/95	6 57	-1 58	120[4]	460	14	ND	14	13	--
	08/01/95	7 70	-2 71	86[4]	190	4	ND	3 7	2	--
	11/01/95	9 08	-4 09	190[5]	160	2 5	ND	0 82	0 57	280
	02/01/96	6 22	-1 23	90[4]	240	8 7	2	ND	0 66	250
	02/04/97	8 48	-3 49	--	120[6]	0 58	ND	ND	ND	150
	02/05/98	5 50	-0 51	--	130	1 3	ND	2 7	11	220
	02/04/99	6 58	-1 59	--	1,600	74	16	ND[9]	ND[9]	680/850[10]
	02/02/00	6 69	-1 70	--	174[12]	5 70	1 41	ND	ND	839/787[10]
	03/05/01	6 58	-1 59	--	510[13]	12 7	0 875	2 57	ND	572/585[10]
	08/10/01	7 31	-2 32	--	--	--	--	--	--	--
4 96	**02/22/02**	**6 25**	**-1 29**	**--**	**910[12]**	**2.0**	**<1 0**	**2 3**	**<1 0**	**410/500[10]**
MW-2	05/11/90	--	--	--	65,000	3 300	3,300	4 100	12 000	--
	08/28/90[1]	--	--	3,100	27,000	2 600	1,300	1 900	3 000	--
	11/26/90[1]	--	--	3 800	15,000	1 600	450	1,100	2,100	--
	02/21/91[1]	--	--	7 000	3,400	160	61	200	490	--
	08/05/91[1]	--	--	4 200	33,000	2 900	190	3 400	7 900	--
	11/05/91[2]	--	--	3 900	110,000	4 200	200	3 400	8 600	--
	02/07/92[1]	--	--	2 300	11,000	1 400	30	1 900	1 400	--
	05/05/92[1]	--	--	4,600	26 000	2,300	110	2 700	6 900	--
	08/03/92[1]	--	--	3,300[5]	37,000	4 500	480	3 300	9 700	--
	11/03/92[1]	--	--	9,600[4]	40,000	5 600	130	3 000	6 100	--
	02/03/93[1]	--	--	3,900[4]	9 300	780	68	830	1 200	--
3 83	03/01/93	5 92	-2 09	--	--	--	--	--	--	--
	04/01/93	5 76	-1 93	--	--	--	--	--	--	--
	05/17/93	7 08	-3 25	5 500[5]	46 000	4,400	510	2,900	9 900	--
	06/15/93	7 02	-3 19	--	--	--	--	--	--	--
	07/14/93	8 13	-4 30	--	--	--	--	--	--	--

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	08/13/93	8 64	-4 81	2,800[5]	44,000	5,100	600	2,900	8 500	--
(cont)	09/13/93	9 00	-5 17	--	--	--	--	--	--	--
	10/14/93	9 03	-5 20	--	--	--	--	--	--	--
3 57	11/11/93	9 22	-5 65	7 000[5]	36 000	4,800	970	3 000	8 100	--
	12/14/93	8 05	-4 48	--	--	--	--	--	--	--
	01/10/94	8 29	-4 72	--	--	--	--	--	--	--
	02/10/94	6 93	-3 36	2 000[5]	12,000	1,000	17	880	940	--
	03/14/94	6 41	-2 84	--	--	--	--	--	--	--
	04/23/94	6 66	-3 09	--	--	--	--	--	--	--
	05/05/94	6 38	-2 81	3,100[5]	36 000	3,200	670	2 700	9,600	--
	06/07/94	6 33	-2 76	--	--	--	--	--	--	--
	07/05/94	6 52	-2 95	--	--	--	--	--	--	--
	08/02/94	6 75	-3 18	8,500[1]	32 000	2,400	2,200	2 900	12 000	--
	11/07/94	6 04	-2 47	3 100[5]	49 000	1 700	2,000	3 000	10 000	--
	12/03/94	4 95	-1 38	--	--	--	--	--	--	--
	01/10/95	4 59	-1 02	--	--	--	--	--	--	--
	02/01/95	4 54	-0 97	1 800[4]	9,300	300	210	630	2,600	--
	03/03/95	5 17	-1 60	--	--	--	--	--	--	--
	05/02/95	5 03	-1 46	2 300[5]	5,600	150	ND	150	180	--
	08/01/95	6 16	-2 59	2 900[1]	13 000	700	140	1,400	5 500	--
	11/01/95	7 30	-3 73	4,100[4]	18 000	490	110	1,300	4 600	190
	02/01/96	4 57	-1 00	5,500[4]	22,000	470	77	1,400	5 900	ND
	02/04/97	7 10	-3 53	--	100[6]	ND	0 89	ND	ND	81
	02/05/98	4 12	-0 55	--	330	2 6	2 6	17	58	5 5
	08/28/98	6 26	-2 69	--	--	--	--	--	--	--
	02/04/99	5 01	-1 44	--	ND	ND	0 54	0 60	1 5	19/16[10]
	02/02/00	5 35	-1 78	--	ND	ND	ND	ND	ND	163/150[10]
	03/05/01	5 26	-1 69	--	658[13]	5 53	ND[9]	70 0	152	108
	08/10/01	6 03	-2 46	--	--	--	--	--	--	--
3 56	**02/22/02**	**4 81**	**-1.25**	**--**	**<50**	**<0.50**	**<0 50**	**<0.50**	**<0.50**	**16/18[10]**

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MW-3	5/11/90	--	--	--	ND	ND	ND	ND	ND	
	08/28/90	--	--	--	ND	ND	ND	ND	0 7	--
	11/26/90	--	--	--	ND	ND	ND	ND	ND	--
	02/21/91	--	--	--	ND	ND	ND	ND	0 64	--
	08/05/91	--	--	63	ND	ND	ND	ND	ND	--
	11/05/91	--	--	ND	31	ND	ND	ND	0 65	--
	02/07/92	--	--	ND	ND	ND	ND	ND	ND	--
	05/05/92	--	--	56	ND	ND	ND	0 43	1 8	--
	08/03/92	--	--	58	ND	ND	ND	ND	ND	--
	11/03/92	--	--	52[4]	ND	ND	ND	ND	ND	--
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
3 30	03/01/93	4 84	-1 54	--	--	--	--	--	--	--
	04/01/93	4 60	-1 30	--	--	--	--	--	--	--
	05/17/93	5 47	-2 17	53	ND	ND	ND	ND	ND	--
	06/15/93	5 57	-2 27	--	--	--	--	--	--	--
	07/14/93	6 92	-3 62	--	--	--	--	--	--	--
	08/13/93	7 85	-4 55	ND	ND	ND	ND	ND	ND	--
	09/13/93	8 42	-5 12	--	--	--	--	--	--	--
	10/14/93	8 90	-5 60	--	--	--	--	--	--	--
3 12	11/11/93	8 92	-5 80	51	ND	ND	ND	ND	ND	--
	12/14/93	7 36	-4 24	--	--	--	--	--	--	--
	01/10/94	7 54	-4 42	--	--	--	--	--	--	--
	02/10/94	6 23	-3 11	50[5]	ND	ND	ND	ND	0 84	--
	03/14/94	5 56	-2 44	--	--	--	--	--	--	--
	04/23/94	7 72	-4 60	--	--	--	--	--	--	--
	05/05/94	5 50	-2 38	66	62[6]	ND	ND	ND	ND	--
	06/07/94	5 35	-2 23	--	--	--	--	--	--	--
	07/02/94	5 46	-2 34	--	--	--	--	--	--	--
	08/02/94	5 84	-2 72	76	150[6]	ND	ND	ND	ND	--
	11/07/94	6 05	-2 93	ND	94[6]	ND	ND	ND	ND	--
	12/03/94	4 51	-1 39	--	--	--	--	--	--	--
	01/10/95	3 82	-0 70	--	--	--	--	--	--	--

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	02/01/95	3 84	-0 72	ND	100[6]	ND	ND	ND	ND	--
(cont)	03/03/95	4 27	-1 15	--	--	--	--	--	--	--
	05/02/95	4 11	-0 99	56	360[6]	ND	ND	ND	ND	--
	08/01/95	5 10	-1 98	ND	ND	ND	ND	ND	ND	--
	11/01/95	6 65	-3 53	200[4]	ND	ND	ND	ND	ND	200
	02/01/96	4 29	-1 17	160[4]	ND	ND	ND	ND	ND	190
	02/04/97	6 43	-3 31	--	ND	ND	ND	ND	ND	ND
	02/05/98	4 68	-1 56	--	ND	ND	ND	ND	ND	490
	02/04/99	4 62	-1 50	--	ND	ND	ND	ND	ND	480/530[10]
	02/02/00	5 16	-2 04	--	ND	ND	ND	ND	ND	250/346[11]
	03/05/01	5 07	-1 95	--	ND	ND	ND	ND	ND	167
	08/10/01	5 82	-2 70	--	--	--	--	--	--	--
3 12	**02/22/02**	**4.58**	**-1.46**	**--**	**<50**	**<0.50**	**<0 50**	**<0 50**	**<0.50**	**240/280[10]**
MW-4	08/28/90	--	--	--	62,000	810	72	4 400	4 600	--
	11/26/90	--	--	--	49,000	360	36	3 800	11,000	--
	02/21/91	--	--	4 100	33,000	210	21	3,800	12 000	--
	08/05/91	--	--	6 200	37 000	310	70	3 600	9 700	--
	11/05/91	--	--	7 700	140,000	320	ND	4,800	13 000	--
	02/07/92	--	--	2 300	8 100	24	4 9	1 800	3 200	--
	05/05/92	--	--	3 200	15 000	82	12	2,000	5 600	--
	08/03/92	--	--	2 400[4]	24,000	61	ND	2,100	5 400	--
	11/03/92	--	--	8,300[4]	36,000	69	ND	3,000	7 400	--
	02/03/93	--	--	720[5]	370	2 6	ND	1 2	53	-
5 27	03/01/93	7 63	-2 36	--	--	--	--	--	--	--
	04/01/93	7 25	-1 98	--	--	--	--	--	--	--
	05/17/93	8 46	-3 19	3 100[4]	2,500	ND	ND	170	410	--
	06/15/93	9 00	-3 73	--	--	--	--	--	--	--
	07/14/93	9 74	-4 47	--	--	--	--	--	--	--
	08/13/93	10 23	-4 96	2 000[5]	19 000	ND	ND	1,600	4 100	--

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	09/13/93	10 62	-5 35	--	--	--	--	--	--	--
(cont)	10/14/93	10 84	-5 57	--	--	--	--	--	--	--
4 93	11/11/93	10 88	-5 95	4 000[3]	16 000	110	12	1 800	3 800	--
	12/14/93	9 60	-4 67	--	--	--	--	--	--	--
	01/10/94	9 92	-4 99	--	-	--	--	--	--	--
	02/10/94	8 79	-3 86	170[1]	830	3 5	1 4	36	80	--
	03/14/94	7 91	-2 98	--	--	--	--	--	-	--
	04/23/94	8 41	-3 48	--	--	--	--	--	--	--
	05/05/94	8 27	-3 34	2 000[5]	6 900	17	ND	480	1 300	--
	06/07/94	8 27	3 34	--	--	--	--	--	--	--
	07/05/94	8 58	-3 65	--	--	--	--	--	--	--
	08/02/94	8 91	-3 98	2 500[5]	17,000	38	ND	1 800	4 300	--
	11/07/94	8 64	-3 71	2,200[4]	20,000	84	17	1 500	3 000	--
	12/03/94	6 78	-1 85	--	--	--	--	--	--	--
	01/10/95	6 35	-1 42	--	--	--	--	--	--	--
	02/01/95	5 73	-0 80	ND	ND	ND	ND	ND	ND	--
	03/03/95	6 82	-1 89	--	--	--	--	--	--	--
	05/02/95	5 74	-0 81	2 500[1]	5 400	36	ND	130	710	--
	08/01/95	7 78	-2 85	3 400[1]	7 900	21	ND	210	860	--
	11/01/95	9 16	-4 23	3,300[4]	4 900	12	ND	190	710	210
	02/01/96	4 64	0 29	ND	91	2 7	ND	1 2	6 8	7 8
	02/04/97	8 65	-3 72	--	130[6]	0 58	ND	ND	ND	150
	02/05/98	PAVED OVER	--	--	--	--	--	--	--	--
	02/04/99	4 04	0 89	--	ND	ND	ND	ND	ND	ND
	02/02/00	4 07	0 86	--	ND	ND	ND	ND	ND	ND
	03/05/01	4 14	0 79	--	ND	ND	ND	ND	ND	2 55
	08/10/01	4 77	0 16	--	--	--	--	--	--	--
5 01	**02/22/02**	**3.87**	**1 14**	**--**	**<50**	**<0.50**	**<0 50**	**<0.50**	**<0 50**	**<5.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland California

WELL ID/ TOC*(ft)	DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	08/28/90	--	--	--	ND	ND	ND	ND	1 2	--
	11/26/90	--	--	--	ND	ND	ND	ND	ND	--
	02/21/91	--	--	--	56	ND	ND	ND	4 7	--
	08/05/91	--	--	ND	ND	ND	ND	ND	ND	--
	11/05/91	--	--	ND	ND	ND	ND	ND	ND	--
	02/07/92	--	--	ND	ND	ND	ND	0 36	0 94	--
	05/05/92	--	--	72	ND	ND	ND	0 42	1 4	--
	08/03/92	-	--	ND	ND	ND	ND	ND	ND	--
	11/03/92	--	--	ND	ND	ND	ND	ND	ND	--
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
4 61	03/01/93	6 68	-2 07	--	--	--	--	--	--	--
	04/01/93	6 51	-1 90	--	--	--	--	--	--	--
	05/17/93	7 75	-3 14	ND	ND	ND	ND	ND	ND	--
	06/15/93	8 18	-3 57	--	--	--	--	--	--	--
	07/14/93	8 98	-4 37	--	--	--	--	--	--	--
	08/13/93	9 49	-4 88	ND	ND	ND	ND	ND	ND	--
	09/13/93	9 88	-5 27	--	--	--	--	--	--	--
	10/14/93	10 04	-5 43	--	--	--	--	--	--	--
4 27	11/11/93	10 13	-5 86	ND	ND	ND	ND	ND	ND	--
	12/14/93	8 85	-4 58	--	--	--	--	--	--	--
	01/10/94	9 10	-4 83	--	--	--	--	--	--	--
	02/10/94	7 71	-3 44	ND	ND	ND	ND	ND	0 59	--
	03/14/94	7 02	-2 75	--	--	--	--	--	--	--
	04/23/94	7 57	-3 30	--	--	--	--	--	--	--
	05/05/94	7 38	-3 11	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	06/07/94	7 39	-3 12	--	--	--	--	--	--	--
	07/05/94	7 72	-3 45	--	--	--	--	--	--	--
	08/02/94	8 05	-3 78	ND	ND	ND	ND	ND	ND	--
	11/07/94	7 56	-3 29	--	--	--	--	--	--	--
	12/03/94	5 80	-1 53	--	--	--	--	--	--	--
	01/10/95	5 37	-1 10	--	--	--	--	--	--	--
	02/01/95	5 24	-0 97	ND	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)		DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5		03/03/95	5.99	-1.72	--	--	--	--	--	--	--
(cont)		05/02/95	5.85	-1.58	--	--	--	--	--	--	--
		08/01/95	7.00	-2.73	ND	ND	ND	ND	ND	ND	--
		11/01/95	8.40	-4.13	--	--	--	--	--	--	--
		02/01/96	5.45	-1.18	ND	ND	ND	ND	ND	ND	0.72
		02/04/97	7.82	-3.55	--	ND	ND	ND	ND	ND	ND
		02/05/98	3.85	0.42	--	ND	ND	ND	ND	ND	490
		02/04/99	5.85	-1.58	--	ND	ND	ND	ND	ND	23/26[10]
		02/02/00	5.94	-1.67	--	ND	ND	ND	ND	ND	ND
		03/05/01	5.85	-1.58	--	ND	ND	ND	ND	ND	ND
		08/10/01	6.53	-2.26	--	--	--	--	--	--	--
4.31		**02/22/02**	**5.54**	**-1.23**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**9.6/11[10]**
MW-6		08/28/90[3]	--	--	1,000	12,000	1,700	1,400	230	2,100	--
		11/26/90[1]	--	--	320	4,800	1,000	200	340	650	--
	(D)	11/26/90	--	--	--	4,000	800	120	250	440	--
		02/21/91[1]	--	--	160	750	77	14	23	140	--
		08/05/91[1]	--	--	130	860	130	11	92	150	--
		11/05/91[1]	--	--	300	7,100	200	ND	190	580	--
		02/07/92[1]	--	--	ND	180	22	0.68	22	20	--
		05/05/92[1]	--	--	47	ND	ND	ND	ND	1.3	--
		08/03/92	--	--	170[4]	1,100	180	1.1	62	78	--
		11/03/92	--	--	220[4]	920	45	0.76	12	110	--
		02/03/93[1]	--	--	ND	ND	1.2	ND	ND	ND	--
4.31		03/01/93	6.20	-1.89	--	--	--	--	--	--	--
		04/01/93	6.04	-1.73	--	--	--	--	--	--	--
		05/17/93	7.50	-3.19	1,400[1]	4,900	890	46	210	530	--
		06/15/93	7.76	-3.45	--	--	--	--	--	--	--
		07/14/93	8.69	-4.38	--	--	--	--	--	--	--
		08/13/93	9.20	-4.89	440[5]	2,300	330	ND	95	40	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	09/13/93	9 59	-5 28	--	--	--	--	--	--	--
(cont)	10/14/93	9 75	-5 44	--	--	--	--	--	--	--
4 03	11/11/93	9 87	-5 84	650[5]	3,000	470	ND	220	270	--
	12/14/93	8 60	-4 57	--	--	--	--	--	--	--
	01/10/94	8 81	-4 78	--	--	--	--	--	--	--
	02/10/94	7 23	-3 20	ND	ND	3 5	ND	1 5	ND	--
	03/14/94	6 68	-2 65	--	--	--	--	--	--	-
	04/23/94	7 24	-3 21	--	--	--	--	--	--	--
	05/05/94	7 01	-2 98	630[5]	2,600	430	99	24	420	--
	06/07/94	7 02	-2 99	--	--	--	--	--	--	--
	07/05/94	7 41	-3 38	--	--	--	--	--	-	--
	08/02/94	7 66	-3 63	2 400[5]	28 000	2,200	940	1 600	7 500	--
	11/07/94	6 78	-2 75	770[1]	23 000	3,800	970	1 400	4 700	--
	12/03/94	5 44	-1 41	--	--	--	--	--	--	--
	01/10/95	5 00	-0 97	--	--	--	--	--	--	--
	02/01/95	4 98	-0 95	2 700[5]	55 000	7,700	9,100	4 500	20 000	--
	03/03/95	5 71	-1 68	--	--	--	--	--	-	--
	05/02/95	5 58	-1 55	3 600[5]	59 000	4,700	4,400	4,000	18 000	--
	08/01/95	6 76	-2 73	2 800[4]	23 000	1 400	510	940	7 300	--
	11/01/95	8 10	-4 07	4 300[1]	24 000	1,100	200	1 900	6,000	170
	02/01/96	5 09	-1 06	3 700[1]	58 000	2 700	1,800	4 200	17 000	ND
	02/04/97	7 61	-3 58	--	95[6]	ND	1 0	ND	ND	96
	02/05/98	4 55	-0 52	--	44,000	2,100	1 600	5 200	20 000	2 800
	08/28/98[8]	6 95	-2 92	--	--	--	--	--	--	--
	02/04/99	5 59	-1 56	--	37,000	480	250	2,900	10 000	ND[9]
	02/02/00	6 24	-2 21	--	24,300[13]	313	42 0	1,880	5 490	604/357[10]
	03/05/01[15]	6 29	-2 26	--	29,300[13]	272	66 8	2,180	7 380	1,120
	08/10/01	7 11	-3 08	--	--	--	--	--	--	--
4 05	**02/22/02[15]**	**5 37**	**-1.32**	**--**	**22,000[12]**	**180**	**<50**	**1,300**	**3,100**	**760/790[10]**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7										
4 84	05/11/93	4 52	0 32	--	--	--	--	--	--	--
	05/17/93	7 00	-2 16	ND	ND	ND	ND	ND	ND	--
	06/15/93	7 47	-2 63	--	--	--	--	--	--	--
	07/14/93	8 55	-3 71	--	--	--	--	--	--	--
	08/13/93	9 23	-4 39	ND	ND	ND	ND	ND	ND	--
	09/13/93	10 08	-5 24	--	--	--	--	--	--	--
	1014/93	10 25	-5 41	--	--	--	--	--	--	--
4 42	11/11/93	10 27	-5 85	66	ND	ND	ND	ND	ND	--
	12/14/93	8 52	-4 10	--	--	--	--	--	--	--
	01/10/94	9 30	-4 88	--	--	--	--	--	--	--
	02/10/94	7 93	-3 51	ND	ND	ND	ND	ND	ND	--
	03/14/94	6 78	-2 36	--	--	--	--	--	--	--
	04/23/94	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/05/94	7 13	-2 71	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	06/07/94	7 09	-2 67	--	--	--	--	--	--	--
	07/05/94	7 49	-3 07	--	--	--	--	--	--	--
	08/02/94	7 98	-3 56	ND	ND	ND	ND	ND	0 63	--
	11/07/94	7 86	-3 44	--	--	--	--	--	--	--
	12/03/94	5 95	-1 53	--	--	--	--	--	--	--
	01/10/95	5 50	-1 08	--	--	--	--	--	--	--
	02/01/95	5 43	-1 01	ND	ND	ND	ND	ND	ND	--
	03/03/95	5 97	-1 55	--	--	--	--	--	--	--
	05/02/95	5 73	-1 31	--	--	--	--	--	--	--
	08/01/95	7 62	-3 20	ND	ND	ND	ND	ND	ND	--
	11/01/95	8 58	-4 16	--	--	--	--	--	--	--
	02/01/96	5 77	-1 35	96[4]	ND	ND	ND	ND	ND	1 4
	02/04/97	7 64	-3 22	--	ND	ND	ND	ND	ND	ND
	02/05/98	PAVED OVER	--	--	--	--	--	--	--	--
	02/04/99	5 54	-1 12	--	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7 (cont)	02/02/00	5.75	-1.33	--	ND	ND	ND	ND	ND	ND
	03/05/01	5.66	-1.24	--	ND	ND	ND	ND	ND	ND
	08/10/01	6.28	-1.86	--	--	--	--	--	--	--
4.45	02/22/02	4.98	-0.53	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
MW-8	11/03/92	-	--							
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
5.12	03/01/93	6.64	-1.52	ND	ND	ND	ND	ND	ND	--
	04/01/93	6.55	-1.43	--	--	--	--	--	--	--
	05/17/93	8.25	-3.13	--	--	--	--	--	--	--
	06/15/93	8.67	-3.55	ND	ND	ND	ND	ND	ND	--
	07/14/93	9.47	-4.35	--	--	--	--	--	--	--
	08/13/93	10.00	-4.88	--	--	--	--	--	--	--
	09/13/93	10.40	-5.28	ND	ND	ND	ND	ND	ND	--
	10/14/93	10.23	-5.11	--	--	--	--	--	--	--
4.43	11/11/93	10.22	-5.79	--	--	--	--	--	--	--
	12/14/93	9.00	-4.57	ND	ND	ND	ND	ND	ND	--
	01/10/94	9.17	-4.74	--	--	--	--	--	--	--
	02/10/94	7.23	-2.80	--	--	--	--	--	--	--
	03/14/94	6.94	-2.51	ND	ND	ND	ND	ND	ND	--
	04/23/94	7.63	-3.20	--	--	--	--	--	--	--
	05/05/94	7.39	-2.96	--	--	--	--	--	--	--
	06/07/94	7.44	-3.01	SAMPLED SEMI-ANNUALLY						
	07/05/94	7.86	-3.43	--	--	--	--	--	--	--
	08/02/94	8.23	-3.80	--	--	--	--	--	--	--
	11/07/94	6.56	-2.13	ND	ND	ND	ND	ND	ND	--
	12/03/94	5.60	-1.17	--	--	--	--	--	--	--
	01/10/95	4.90	-0.47	--	--	--	--	--	--	--
	02/01/95	5.02	-0.59	--	--	--	--	--	--	--
	03/03/95	5.81	-1.38	ND	ND	ND	ND	ND	ND	--
	05/02/95	5.73	-1.30	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	08/01/95	7 11	-2 68	ND	ND	ND	ND	ND	ND	--
(cont)	11/01/95	8 98	-4 55	--	--	--	--	--	--	--
	02/01/96	5 52	-1 09	110[1]	ND	ND	ND	ND	ND	1 3
	02/04/97	8 07	-3 64	--	ND	ND	ND	ND	ND	ND
	02/05/98	4 97	-0 54	--	ND	ND	ND	ND	ND	ND
	02/04/99	6 12	-1 69	--	ND	ND	ND	ND	ND	ND
	02/02/00	6 11	-1 68	--	ND	ND	ND	ND	ND	ND
	03/05/01	6 05	-1 62	--	ND	ND	ND	ND	ND	ND
	02/22/02	**5 90**	**-1 47**	**--**	**<50**	**<0.50**	**<0 50**	**<0.50**	**<0 50**	**<5.0**
MW-9	11/03/92	--	--	ND	ND	ND	ND	ND	ND	--
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
4 84	03/01/93	6 22	-1 38	--	--	--	--	--	--	--
	04/01/93	6 17	-1 33	--	--	--	--	--	-	--
	05/17/93	7 95	-3 11	ND	ND	ND	ND	ND	ND	--
	06/15/93	8 34	-3 50	--	--	--	--	--	--	--
	07/14/93	9 13	-4 29	--	--	--	--	--	--	--
	08/13/93	9 69	-4 85	ND	ND	ND	ND	ND	ND	--
	09/13/93	10 10	-5 26	--	--	--	--	--	--	--
	10/14/93	10 23	-5 39	--	--	--	--	--	--	--
4 60	11/11/93	10 39	-5 79	ND	ND	ND	ND	ND	ND	--
	12/14/93	9 14	-4 54	--	--	--	--	--	--	--
	01/10/94	9 27	-4 67	--	--	--	--	--	--	--
	02/10/94	7 20	-2 60	ND	ND	ND	ND	ND	ND	--
	03/14/94	7 06	-2 46	--	--	--	--	--	--	--
	04/23/94	7 79	-3 19	--	--	--	--	--	--	--
	05/05/94	7 52	-2 92	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	06/07/94	7 54	-2 94	--	--	--	--	--	--	--
	07/05/94	7 98	-3 38	--	--	--	--	--	--	--
	08/02/94	8 34	-3 74	ND	ND	ND	ND	ND	ND	--
	11/07/94	6 44	-1 84	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	12/03/94	5 68	-1 08	--	--	--	--	--	--	--
(cont)	01/10/95	4 98	-0 38	--	--	--	--	--	--	--
	02/01/95	5 18	-0 58	65[4]	ND	ND	ND	ND	ND	--
	03/03/95	5 90	-1 30	--	--	--	--	--	--	--
	05/02/95	5 86	-1 26	--	--	--	--	--	--	--
	08/01/95	7 30	-2 70	ND	ND	ND	ND	ND	ND	--
	11/01/95	8 66	-4 06	--	--	--	--	--	--	--
	02/01/96	5 14	-0 54	76[4]	ND	ND	ND	ND	ND	ND
	02/04/97	8 12	-3 52	--	ND	ND	ND	ND	ND	ND
	02/05/98	4 95	-0 35	--	ND	ND	ND	ND	ND	ND
	02/04/99	5 81	-1 21	--	ND	ND	ND	ND	ND	ND
	02/02/00	5 71	-1 11	--	ND	ND	ND	ND	ND	ND
	03/05/01	5 67	-1 07	--	ND	ND	ND	ND	ND	ND
	02/22/02	**5.61**	**-1 01**	**--**	**<50**	**<0.50**	**<0 50**	**<0 50**	**<0 50**	**<5 0**
MW-10	11/03/92	--	--	160[4]	740	11	2 1	32	56	--
	02/03/93	--	--	ND	1,200[6]	ND	ND	ND	ND	--
3 34	03/01/93	5 82	-2 48	--	--	--	--	--	--	--
	04/01/93	5 69	-2 35	--	--	--	--	--	--	--
	05/17/93	7 04	-3 70	ND	1 200[6]	ND	ND	ND	ND	--
	06/15/93	7 22	-3 88	--	--	--	--	--	--	--
	07/14/93	8 01	-4 67	--	--	--	--	--	--	--
	08/13/93	8 42	-5 08	97[5]	1 500[7]	ND	ND	41	21	--
	09/13/93	8 74	-5 40	--	--	--	--	--	--	--
	10/14/93	8 57	-5 23	--	--	--	--	--	--	--
2 69	11/11/93	8 59	-5 90	88[5]	1,600[6]	ND	ND	ND	ND	--
	12/14/93	7 50	-4 81	--	--	--	--	--	--	--
	01/10/94	7 69	-5 00	--	--	--	--	--	--	--
	02/10/94	8 21	-5 52	71	1,480[6]	ND	ND	ND	ND	--
	03/14/94	5 56	-2 87	--	--	--	--	--	--	--
	04/23/94	6 22	-3 53	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	05/05/94	6 03	-3 34	55	1,000[6]	ND	ND	ND	ND	--
(cont)	06/07/94	6 10	-3 41	--	--	--	--	--	--	--
	07/05/94	6 38	-3 69	--	--	--	--	--	--	--
	08/02/94	6 67	-3 98	110	95[6]	ND	ND	ND	ND	--
	11/07/94	6 08	-3 39	120[5]	1 100[6]	ND	ND	ND	ND	--
	12/03/94	4 68	-1 99	--	--	--	--	--	--	--
	01/10/95	4 21	-1 52	--	--	--	--	--	--	--
	02/01/95	4 26	-1 57	72[1]	560[6]	ND	ND	ND	ND	--
	03/03/95	4 94	-2 25	--	--	--	--	--	--	--
	05/02/95	4 80	-2 11	99	840[6]	ND	ND	ND	9 5	--
	08/01/95	5 79	-3 10	260	ND	ND	ND	ND	ND	--
	11/01/95	6 95	-4 26	280	ND	ND	ND	ND	ND	830
	02/01/96	4 31	-1 62	320[4]	ND	ND	ND	ND	ND	1 300
	02/04/97	6 59	-3 90	--	ND	ND	ND	ND	ND	ND
	02/05/98	3 76	-1 07	--	ND	ND	ND	ND	ND	500
	02/04/99	4 68	-1 99	--	ND[9]	ND[9]	ND[9]	ND[9]	ND[9]	620/850[10,11]
	02/02/00	4 85	-2 16	--	ND	ND	ND	ND	ND	747/696[10]
	03/05/01	4 81	-2 12	--	ND	ND	ND	ND	ND	121
	02/22/02	**4 53**	**-1.84**	**--**	**<50**	**<0 50**	**<0 50**	**<0 50**	**<0.50**	**870/780[10]**
MW-11										
2 63	08/10/01[17]	5 70	-3 07	110[16]	<50	<0 50	<0 50	<0 50	<0 50	<5 0/<2 0[10]
	02/22/02	**5.43**	**-2 80**	**99[18]**	**<50**	**<0 50**	**<0.50**	**<0 50**	**<0.50**	**<5 0/<2.0[10]**
MWD										
(D)(MW6)	02/22/91	--	--	--	740	74	12	33	140	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank										
TB-LB	02/05/98	--	--	--	ND	ND	ND	ND	ND	ND
	02/04/99	--	--	--	ND	ND	ND	ND	ND	ND
	02/12/99	--	--	--	ND	ND	ND	ND	ND	ND
	02/02/00	--	--	--	ND	ND	ND	ND	ND	ND
	03/05/01	--	--	--	ND	ND	ND	ND	ND	ND
	08/10/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/22/02	--	--	--	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<5.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

EXPLANATIONS

Groundwater monitoring data and laboratory analytical results prior to February 5 1998 were compiled from reports prepared by MPDS Services, Inc

TOC = Top of Casing elevation	TPH-G = Total Petroleum Hydrocarbons as Gasoline	(D) = Duplicate
DTW = Depth to Water	B = Benzene	(ppb) = Parts per billion
(ft) = Feet	T = Toluene	(ppm) = Parts per million
GWE = Groundwater Elevation	E = Ethylbenzene	ND = Not Detected
(msl) = Mean sea level	X = Xylenes	-- = Not Measured/Not Analyzed
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	TOG = Total Oil and Grease

* TOC elevations were surveyed on September 11, 2001, using the previous benchmark TOC elevations are relative to Mean Sea Level (msl) per the City of Oakland Benchmark No 3881 (Elevation = 4 72 feet msl) Prior to November 11 1993 DTW measurements were taken from the top of well covers

1 TOG was ND

2 TOG was detected at a concentration of 78 ppb

3 TOG was detected at a concentration of 16 ppb

4 Laboratory report indicates the hydrocarbons detected did not appear to be diesel

5 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture

6 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline

7 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture

8 ORC installed in well

9 *Detection limit raised Refer to analytical reports*

10 MTBE by EPA Method 8260

11 Laboratory analyzed sample 9 minutes past holding time

12 Laboratory report indicates weathered gasoline C6-C12

13 Laboratory report indicates gasoline C6-C12

14 Laboratory report indicates MTBE by EPA Method 8260 was analyzed past EPA recommended holding time

15 ORC present in well

16 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel

17 Well development performed

18 Laboratory report indicates unidentified hydrocarbons C10-C28

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	03/05/01	ND[1]	ND[1]	585	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	02/22/02	**<1,700**	**<330**	**500**	**<6.7**	**<6.7**	**<6.7**	**<6.7**	**<6.7**
MW-2	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	**<500**	**<100**	**18**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**
MW-3	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	**<1,200**	**<250**	**280**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
MW-4	03/05/01[2]	--	--	--	--	--	--	--	--
MW-5	**02/22/02**	**<500**	**<100**	**11**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**
MW-6	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	**<2,500**	**<500**	**790**	**<10**	**<10**	**<10**	**<10**	**<10**
MW-10	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	**<3,100**	**<620**	**780**	**<12**	**<12**	**<12**	**<12**	**<12**
MW-11	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	02/22/02	**<500**	**<100**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**

Table 2

Groundwater Analytical Results - Oygenate Compounds

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

EXPLANATIONS.

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

1,2-DCA = 1 2-Dichloroethane

EDB = Ethylene dibromide

(ppb) = Parts per billion

-- = Not Analyzed

ND = Not Detected

[1] Detection limit raised Refer to analytical reports

[2] Laboratory failed to run requested analysis

ANALYTICAL METHOD.

EPA Method 8260 for Oxygenate Compounds

Table 3

Dissloved Oxygen Compounds

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
MW-1	02/04/99	3 56	--
	02/02/00	3 83	--
	03/05/01	3 97	--
	02/22/02	**4 38**	--
MW-2	08/28/98	0 70	--
	02/04/99	3 64	--
	02/02/00	3 28	--
	03/05/01	2 90	--
	02/22/02	**2.66**	--
MW-3	02/04/99	5 34	--
	02/02/00	6 06	--
	03/05/01	4 93	--
	02/22/02	**4 16**	--
MW-4	02/04/99	6 46	--
	02/02/00	5 93	--
	03/05/01	5 37	--
	08/09/01	6 4	3 3
	02/22/02	**4.95**	--
MW-5	02/04/99	6 65	--
	02/02/00	6 35	--
	03/05/01	5 58	--
	02/22/02	**5 21**	--
MW-6[1]	08/29/98	0 32	--
	02/05/99	2 78	--
	02/02/00	3 12	--
	03/05/01	2 84	--
	02/22/02	**3 25**	--
MW-7	02/04/99	5 05	--
	02/02/00	4 58	--
	03/05/01	4 81	--
	02/22/02	**4 14**	--

Table 3

Dissloved Oxygen Compounds

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland. California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
MW-8	08/28/98	0 32	--
	02/04/99	4 95	--
	02/02/00	5 24	--
	03/05/01	4 71	--
	08/09/01	5 5	4 8
	02/22/02	**5.10**	**--**
MW-9	02/04/99	4 77	--
	02/02/00	5 12	--
	03/05/01	5 28	--
	02/22/02	**5 33**	**--**
MW-10	02/04/99	4 02	--
	02/02/00	4 84	--
	03/05/01	3 70	--
	08/09/01	3 60	4 4
	02/22/02	**4.58**	**--**
MW-11	**02/22/02**	**3.57**	**--**

EXPLANATIONS:

(mg/L) = milligrams per liter

-- = Not Measured

NOTES:

[1] ORC installed in well

Table 4

Groundwater Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID		DATE	Nitrate as NO_3 (ppm)	Sulfate (ppm)	Redox Potential (mV)	Ferrous Iron (ppm)
MW-1		02/04/99	7 0	4 4	-054[1]	--
	NP	02/12/99	--	--	470	3 3
		02/02/00	ND	13 7	484	0 0456
		03/05/01	3 41	7 12	492	0 0161
		02/22/02	**<0 50**	**3 4**	**210**	**<0 10**
MW-2		02/04/99	ND	12	-104[1]	--
	NP	02/12/99	--	--	380	4 3
		02/02/00	ND	15 2	55 3[2]	1 70
		03/05/01	2 91	53 7	480	0 0812
		02/22/02	**<0.50**	**38**	**270**	**<0.10**
MW-3		02/04/99	ND	47	-064[1]	--
	NP	02/12/99	--	--	460	1 4
		02/02/00	ND	26 0	45 0	0 123
		03/05/01	3 52	70 1	476	0 0279
		02/22/02	**<0.50**	**49**	**250**	**<0.10**
MW-4		02/04/99	5 4	15	007[1]	--
	NP	02/12/99	--	--	610	6 0
		02/02/00	10 3	38 4	61 0	3 00
		03/05/01	4 63	5 65	474	0 114
		02/22/02	**15**	**27**	**590**	**0 26**
MW-5		02/04/99	10	79	102[1]	--
	NP	02/12/99	--	--	480	0 16
		02/02/00	12 1	98 4	83 7	0 0208
		03/05/01	3 49	5 43	470	0 123
		02/22/02	**<0 50**	**39**	**630**	**<0.10**
MW-6		02/04/99	ND	4 8	-034[1]	--
	NP	02/12/99	--	--	400	3 2
		02/02/00	ND	8 91	71 5	0 217
		03/05/01	2 95	ND[3]	467	0 0791
		02/22/02	**<0 50**	**<0 50**	**540**	**<0 10**

Table 4

Groundwater Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID		DATE	Nitrate as NO_3 (ppm)	Sulfate (ppm)	Redox Potential (mV)	Ferrous Iron (ppm)
MW-7		02/04/99	ND	4 6	-071[1]	--
	NP	02/12/99	--	--	450	1 8
		02/02/00	ND	6 43	84 0	0 812
		03/05/01	3 20	ND[3]	464	0 124
		02/22/02	**<0.50**	**2.4**	**610**	**<0.10**
MW-8		02/04/99	ND	41	90[1]	--
	NP	02/12/99	--	--	470	0 15
		02/02/00	ND	47 5	111	ND
		03/05/01	25 0	28 8	455	ND
		02/22/02	**0.56**	**37**	**630**	**<0.10**
MW-9		02/04/99	22	30	78[1]	--
	NP	02/12/99	--	--	470	0 26
		02/02/00	20 6	36 5	172	ND
		03/05/01	27 1	30 5	468	ND
		02/22/02	**22**	**28**	**620**	**<0.10**
MW-10		02/04/99	ND	36	94[1]	--
	NP	02/12/99	--	--	470	0 24
		02/02/00	ND	40 1	110	0 0165
		03/05/01	3 17	66 7	461	0 0248
		02/22/02	**<0.50**	**30**	**590**	**<0 10**

EXPLANATIONS

(ppm) = Parts per million

(Mv) = millivolts

-- = Not Analyzed

1 Redox Potential was measured in the field

2 Laboratory report indicates this value is actually negative

3 Detection limit raised Refer to analytical reports

4 Analysis performed in laboratory, results reported as a percentage

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 # 3135 Job#: 180067

Address: 845 66th Ave Date: 2-22-02

City: Oakland 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 22.62 ft.

Depth to Water 6.25 ft.

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

16.37 x VF 0.17 = 2.78 X 3 (case volume) = Estimated Purge Volume: 8.5 (gal.)

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

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

Starting Time: 12:04 Weather Conditions: clear

Sampling Time: 12:38 m (1223) 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)
12:11	3	7.95	9.38	71.6	4.38		
12:17	5.5	7.72	8.46	71.2			
12:15	8.5	7.63	8.91	71.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate Sulfate, Redox Potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland Sampler: Joe

Well ID MW-2 Well Condition: O.K

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

Total Depth 22.49 ft.

Depth to Water 4.81 ft.

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

17.68 X VF 0.17 = 3.00 X 3 (case volume) = Estimated Purge Volume: 9 (gal.)

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

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

Starting Time: 12:30 Weather Conditions: clear

Sampling Time: 12.508 m Water Color: clear Odor: yes

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)
12:36	3	7.27	359	73.1	2.66		
12:38	6	7.32	4.06	72.6			
12:41	9	7.26	4.04	72.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland Sampler: Joe

Well ID MW-3 Well Condition: OK

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

Total Depth 21.63 ft.

Depth to Water 4.58 ft.

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

17.05 X VF 0.17 = 2.90 X 3 (case volume) = Estimated Purge Volume: 9 (gal.)

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

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

Starting Time: 11:35 Weather Conditions: clear

Sampling Time: 11:53 Am (1153) 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)
11:42	3	7.42	9.28	72.2	4.16		
11:44	6	7.40	9.33	72.1			
11:47	9	7.46	9.37	72.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland Sampler: Joe

Well ID MW-4 Well Condition: O.K

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

Total Depth 25.12 ft.

Depth to Water 3.81 ft.

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

21.25 X VF 0.17 = 3.61 X 3 (case volume) = Estimated Purge Volume: 11 (gal.)

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

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

Starting Time: 11:04 Weather Conditions: clear

Sampling Time: 11:28 AM (1128) 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)
11:12	4	7.58	9.49	71.6	4.95		
11:14	7.5	7.60	9.53	71.7			
11:17	11	7.64	952	71.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox Potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland 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 25.95 ft.

Depth to Water 5.54 ft.

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

20.41 X VF 0.17 = 3.47 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: 7:30 Weather Conditions: clear

Sampling Time: 7:52 A.m (0752) 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 (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
7:38	3.5	7.67	10.11	69.9	5.21		
7:40	7.0	7.49	10.07	70.7			
7:42	10.5	7.53	10.09	71.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox Potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS: ____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland Sampler: Joe

Well ID MW-6 Well Condition: ok

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

Total Depth 25.78 ft.

Depth to Water 5.37 ft.

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

20.41 X VF 0.17 = 3.47 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: 1:00 Weather Conditions: clear

Sampling Time: 1:25 pm (1325) Water Color: clear Odor: yes

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)
1:08	35	7.44	5.10	75.0	3.25		
1:10	85	7.22	4.85	73.2			
1:12	105	7.19	4.83	73.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox Potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS: ORC in well.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland 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 19.80 ft.

Depth to Water 4.98 ft.

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

14.82 X VF 0.17 = 2.52 X 3 (case volume) = Estimated Purge Volume: 8 (gal.)

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

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

Starting Time: 6:45 Weather Conditions: clear

Sampling Time: 7:12 Am (0712) 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)
6:55	3	7.36	8.08	71.5	4.14		
6:57	5.5	7.42	7.75	71.6			
6:59	8	7.48	7.79	71.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 voA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox Potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#. 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland 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 23.05 ft.

Depth to Water 5.90 ft.

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

17.15 X VF 0.17 = 2.92 X 3 (case volume) = Estimated Purge Volume: 9 (gal.)

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

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

Starting Time: 10:25 Weather Conditions: clear

Sampling Time: 10:50 Am (1050) 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)
10:33	3	7.70	1036	72.2	5.10		
10:35	6	7.51	1038	72.0			
10:38	9	7.46	10.31	71.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland 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 23.05 ft.

Depth to Water 5.61 ft.

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

17.44 X VF 0.17 = 2.96 X 3 (case volume) = Estimated Purge Volume: 9 (gal.)

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

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

Starting Time: 9:52 Weather Conditions: clear

Sampling Time: 10:16 Am (1016) 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 (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:02	3	7.61	729	71.6	5.33		
10:04	6	7.57	7.34	71.5			
10:07	9	7.54	736	71.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland 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 23.03 ft.

Depth to Water 4.53 ft.

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

18.5 x VF 0.17 = 3.15 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: 9:05 Weather Conditions: clear

Sampling Time: 9:28 Am (0928) 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)
9:15	3	7.17	6.84	71.2	4.58		
9:17	6	7.25	6.81	71.0			
9:20	9.5	7.30	6.86	70.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 plastic	"	—	"	Nitrate, Sulfate, Redox potential
	1 Amber	"	—	"	Ferrous Iron

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 3135 Job#: 180067

Address: 845 66th Ave. Date: 2-22-02

City: Oakland Sampler: Joe

Well ID MW-11 Well Condition: O.K

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

Total Depth 20.49 ft.

Depth to Water 5.43 ft.

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

15.06 X VF 0.17 = 2.56 X 3 (case volume) = Estimated Purge Volume: 8 (gal.)

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

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

Starting Time: 8:15 Weather Conditions: clear

Sampling Time: 8.40Am (0840) Water Color: clear Odor: none

Purging Flow Rate: 1 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)
8:24	3	7.09	765	71.6	3.57		
8:26	5	7.10	7.66	71.9			
8:28	8	7.14	7.67	72.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	5 VOA	Y	HCL	Seq.	TPHG, BTEX, MTBE + (8) oxygenates
	1 plastic	"	—	"	Nitrate, Sulfate, Redox potential
	1 Amber	"		"	Ferrous Iron
	1 Aml	"	—	"	TPHD

COMMENTS:

GLOBAL ID# T0600101488

Chain-of-Custody-Record

TOSCO

Tosco Marketing Company
3500 Citrus Canyon Pl., Ste. 400
San Ramon, California 94583

L20120

Facility Number: Tosco #3135 (former Unocal)
Facility Address: 845 66th Ave., Oakland, CA
Consultant Project Number: 180067.85
Consultant Name: Gettler-Ryan Inc. (G-R Inc.)
Address: 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name): Deanna L. Harding
(Phone) (925) 551-7555 (Fax Number) 925-551-7899

Contact (Name): MR. Dave DeWitt
(Phone): 925-277-2384
Laboratory Name: Sequoia Analytical
Laboratory Release Number:
Samples Collected by (Name): JOE ASEMIAN
Collection Date: 2-22-02
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix: S = Soil A = Air W = Water C = Charcoal	Type: G = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX + MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (TCLP or AA)	Redox Potential	Nitrate/ Sulfate	Ferrous Iron	(8) Oxy's by 8260
TB-LB	01	1 VOA	W	G	–	HCL	Y	✓											
MW-1	02	3 VOA 3 Amb 1 plast	/	/	1223	/	/	✓								✓	✓	✓	
MW-2	03	"	/	/	1250	/	/	✓								✓	✓	✓	
MW-3	04	"	/	/	1153	/	/	✓								✓	✓	✓	
MW-4	05	"	/	/	1128	/	/	✓								✓	✓	✓	
MW-5	06	"	/	/	0752	/	/	✓								✓	✓	✓	
MW-6	07	"	/	/	1325	/	/	✓								✓	✓	✓	
MW-7	08	"	/	/	0712	/	/	✓								✓	✓	✓	
MW-8	09	"	/	/	1050	/	/	✓								✓	✓	✓	
MW-9	10	"	/	/	1016	/	/	✓								✓	✓	✓	
MW-10	11	"	/	/	0928	/	/	✓								✓	✓	✓	
MW-11	12	"	/	/	0840	/	/	✓	✓										✓

DO NOT BILL TB-LB ANALYSIS

RUN 8 OXY'S BY 8260 ON ALL 8020 MTBE HITS

8 Oxy's – MTBE, TBA, DIPE, ETBE TAME, 1,2DCA EDB, Ethanol

Please filter and preserve Ferrous iron analyses A.S.A.P.

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	2-22-02 1945			2/22/02 1945
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)

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

Sequoia Analytical

1551 Industrial Road
San Carlos CA 94070
(650) 232-9600
FAX (650) 232-9612
www sequoialabs com

10 April, 2002

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568

GETTLER-RYAN
GENERAL CONTRACTOR

RE Tosco(1)
Sequoia Report L202120

Enclosed are the results of analyses for samples received by the laboratory on 02/22/02 15 45 If you have any questions concerning this report, please feel free to contact me

Sincerely,

WStevenson

Wayne Stevenson
Project Manager

CA ELAP Certificate #2360

Sequoia Analytical

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San Carlos CA 94070
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FAX (650) 232 9612
www.sequoialabs.com

Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	L202120-02	Water	02/22/02 12 23	02/22/02 15 45
MW-2	L202120-03	Water	02/22/02 12 50	02/22/02 15 45
MW-3	L202120-04	Water	02/22/02 11 53	02/22/02 15 45
MW-4	L202120-05	Water	02/22/02 11 28	02/22/02 15 45
MW-5	L202120-06	Water	02/22/02 07 52	02/22/02 15 45
MW-6	L202120-07	Water	02/22/02 13 25	02/22/02 15 45
MW-7	L202120-08	Water	02/22/02 07 12	02/22/02 15 45
MW-8	L202120-09	Water	02/22/02 10 50	02/22/02 15 45
MW-9	L202120-10	Water	02/22/02 10 16	02/22/02 15 45
MW-10	L202120-11	Water	02/22/02 09 28	02/22/02 15 45
MW-11	L202120-12	Water	02/22/02 08 40	02/22/02 15 45

Sequoia Analytical - San Carlos

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.

Wayne Stevenson, Project Manager

Sequoia Analytical

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San Carlos CA 94070
(650) 232-9600
FAX (650) 232 9612
www sequoialabs com

Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L202120-01) Water Sampled 02/22/02 00 00 Received 02/22/02 15·45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030001	03/01/02	03/02/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"		"	"	"	
Methyl tert-butyl ether	ND	5 0	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*81 9 %*	*70-130*		"	"	"	"	
MW-1 (L202120-02) Water Sampled 02/22/02 12 23 Received 02/22/02 15 45									
Purgeable Hydrocarbons as Gasoline	**910**	100	ug/l	2	2030011	03/06/02	03/07/02	EPA 8021B	P-02
Benzene	**2.0**	1 0	"	"	"	"	"	"	
Toluene	ND	1 0	"	"	"	"	"	"	
Ethylbenzene	**2 3**	1 0	"	"	"	"	"	"	
Xylenes (total)	ND	1 0	"	"	"	"	"	"	
Methyl tert-butyl ether	**410**	10	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*131 %*	*70-130*		"	"	"	"	*S-04*
MW-2 (L202120-03) Water Sampled 02/22/02 12·50 Received: 02/22/02 15 45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030011	03/05/02	03/06/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	**16**	5 0	"	"	"	"	"	"	
Surrogate a,a a-Trifluorotoluene		*93 9 %*	*70-130*		"	"	"	"	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135 Oakland	**Reported**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L202120-04) Water Sampled 02/22/02 11 53 Received: 02/22/02 15 45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030011	03/05/02	03/06/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	**240**	5 0	"	"	"	"	"	"	
Surrogate a a,a-Trifluorotoluene		*94 9 %*	*70-130*		"	"	"	"	
MW-4 (L202120-05) Water Sampled: 02/22/02 11 28 Received 02/22/02 15:45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030011	03/05/02	03/05/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5 0	"	"	"	"	"	"	
Surrogate a a a-Trifluorotoluene		*101 %*	*70-130*		"	"	"	"	
MW-5 (L202120-06) Water Sampled 02/22/02 07:52 Received 02/22/02 15.45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030011	03/05/02	03/06/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	**9.6**	5 0	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*91 6 %*	*70-130*		"	"	"	"	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135 Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (L202120-07) Water Sampled 02/22/02 13 25 Received 02/22/02 15 45									
Purgeable Hydrocarbons as Gasoline	**22000**	5000	ug/l	100	2030011	03/05/02	03/06/02	EPA 8021B	P-02
Benzene	**180**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	**1300**	50	"	"	"	"	"	"	
Xylenes (total)	**3100**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	**760**	500	"	"	"	"	"	"	
Surrogate a a a-Trifluorotoluene		*93 3 %*	*70-130*		"	"	"	"	
MW-7 (L202120-08) Water Sampled 02/22/02 07:12 Received 02/22/02 15 45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030011	03/05/02	03/06/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5 0	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*82 0 %*	*70-130*		"	"	"	"	
MW-8 (L202120-09) Water Sampled 02/22/02 10:50 Received 02/22/02 15:45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030011	03/05/02	03/06/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5 0	"	"	"	"	"	"	
Surrogate a a,a-Trifluorotoluene		*100 %*	*70-130*		"	"	"	"	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (L202120-10) Water Sampled: 02/22/02 10 16 Received: 02/22/02 15:45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030012	03/06/02	03/06/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5 0	"	"	"	"	"	"	
Surrogate a a a-Trifluorotoluene		*109 %*	*70-130*		"	"	"	"	
MW-10 (L202120-11) Water Sampled: 02/22/02 09:28 Received: 02/22/02 15 45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030012	03/06/02	03/07/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	**870**	50	"	10	"	"	03/08/02	"	M-04
Surrogate a,a,a-Trifluorotoluene		*99 6 %*	*70-130*		"	"	*03/07/02*	"	
MW-11 (L202120-12) Water Sampled: 02/22/02 08 40 Received: 02/22/02 15:45									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	2030012	03/06/02	03/07/02	EPA 8021B	
Benzene	ND	0 50	"	"	"	"	"	"	
Toluene	ND	0 50	"	"	"	"	"	"	
Ethylbenzene	ND	0 50	"	"	"	"	"	"	
Xylenes (total)	ND	0 50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5 0	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*95 1 %*	*70-130*		"	"	"	"	

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San Carlos CA 94070
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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L202120-02) Water Sampled 02/22/02 12:23 Received 02/22/02 15 45									
Ethanol	ND	1700	ug/l	3 33	2030010	03/07/02	03/07/02	EPA 8260B	
1 2-Dibromoethane	ND	6 7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6 7	"	"	"	"	"	"	
Di-isopropyl ether	ND	6 7	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	6 7	"	"	"	"	"	"	
Methyl tert-butyl ether	**500**	6 7	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	6 7	"	"	"	"	"	"	
Tert-butyl alcohol	ND	330	"	"	"	"	"	"	
Surrogate 1,2-Dichloroethane-d4		*104 %*	*70-130*		"	"	"	"	
Surrogate Toluene-d8		*99 6 %*	*70-130*		"	"	"	"	
MW-2 (L202120-03) Water Sampled 02/22/02 12 50 Received: 02/22/02 15 45									
Ethanol	ND	500	ug/l	1	2030010	03/07/02	03/07/02	EPA 8260B	
1,2-Dibromoethane	ND	2 0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2 0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2 0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2 0	"	"	"	"	"	"	
Methyl tert-butyl ether	**18**	2 0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2 0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate 1,2-Dichloroethane-d4		*98 6 %*	*70-130*		"	"	"	"	
Surrogate Toluene-d8		*99 4 %*	*70-130*		"	"	"	"	
MW-3 (L202120-04) Water Sampled 02/22/02 11:53 Received 02/22/02 15:45									
Ethanol	ND	1200	ug/l	2 5	2030010	03/07/02	03/07/02	EPA 8260B	
1,2-Dibromoethane	ND	5 0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5 0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5 0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5 0	"	"	"	"	"	"	
Methyl tert-butyl ether	**280**	5 0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5 0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	250	"	"	"	"	"	"	
Surrogate 1 2-Dichloroethane-d4		*96 4 %*	*70-130*		"	"	"	"	
Surrogate Toluene-d8		*102 %*	*70-130*		"	"	"	"	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (L202120-06) Water Sampled: 02/22/02 07 52 Received 02/22/02 15 45									
Ethanol	ND	500	ug/l	1	2030010	03/07/02	03/07/02	EPA 8260B	
1,2-Dibromoethane	ND	2 0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2 0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2 0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2 0	"	"	"	"	"	"	
Methyl tert-butyl ether	**11**	2 0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2 0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate 1,2-Dichloroethane-d4		*98 2 %*	*70-130*		"	"	"	"	
Surrogate Toluene-d8		*101 %*	*70-130*		"	"	"	"	
MW-6 (L202120-07) Water Sampled: 02/22/02 13.25 Received. 02/22/02 15 45									
Ethanol	ND	2500	ug/l	5	2030010	03/07/02	03/07/02	EPA 8260B	
1,2-Dibromoethane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**790**	10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	10	"	"	"	"	"	"	
Tert-butyl alcohol	ND	500	"	"	"	"	"	"	
Surrogate 1,2-Dichloroethane-d4		*102 %*	*70-130*		"	"	"	"	
Surrogate Toluene-d8		*104 %*	*70-130*		"	"	"	"	
MW-10 (L202120-11) Water Sampled: 02/22/02 09 28 Received: 02/22/02 15 45									
Ethanol	ND	3100	ug/l	6 25	2030010	03/07/02	03/07/02	EPA 8260B	
1,2-Dibromoethane	ND	12	"	"	"	"	"	"	
1,2-Dichloroethane	ND	12	"	"	"	"	"	"	
Di-isopropyl ether	ND	12	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	12	"	"	"	"	"	"	
Methyl tert-butyl ether	**780**	12	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	12	"	"	"	"	"	"	
Tert-butyl alcohol	ND	620	"	"	"	"	"	"	
Surrogate 1,2-Dichloroethane-d4		*89 4 %*	*70-130*		"	"	"	"	
Surrogate Toluene-d8		*112 %*	*70-130*		"	"	"	"	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135 Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09:40

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (L202120-12) Water Sampled 02/22/02 08:40 Received 02/22/02 15:45									
Ethanol	ND	500	ug/l	1	2020079	02/25/02	02/25/02	EPA 8260B	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate 1,2-Dichloroethane-d4		*101 %*		*70-130*		"	"	"	
Surrogate Toluene-d8		*102 %*		*70-130*		"	"	"	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported.**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Diesel Hydrocarbons (C10-C28) by 8015B modified

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (L202120-12) Water Sampled 02/22/02 08 40 Received. 02/22/02 15 45									
Diesel Range Organics (C10-C28)	**99**	52	ug/l	1	2C05011	03/05/02	03/06/02	8015Bm	D-15,HT-08
Surrogate n-Octacosane		*107 %*	*50-150*		"	"	"	"	*HT-08*

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6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L202120-02) Water Sampled 02/22/02 12 23 Received 02/22/02 15 45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-2 (L202120-03) Water Sampled 02/22/02 12 50 Received 02/22/02 15.45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-3 (L202120-04) Water Sampled 02/22/02 11 53 Received. 02/22/02 15:45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-4 (L202120-05) Water Sampled 02/22/02 11 28 Received· 02/22/02 15 45									
Ferrous Iron	**0.26**	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-5 (L202120-06) Water Sampled 02/22/02 07 52 Received: 02/22/02 15 45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-6 (L202120-07) Water Sampled· 02/22/02 13 25 Received 02/22/02 15:45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-7 (L202120-08) Water Sampled. 02/22/02 07 12 Received· 02/22/02 15.45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-8 (L202120-09) Water Sampled 02/22/02 10 50 Received 02/22/02 15:45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	
MW-9 (L202120-10) Water Sampled 02/22/02 10 16 Received 02/22/02 15 45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	

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Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (L202120-11) Water Sampled 02/22/02 09:28 Received 02/22/02 15 45									
Ferrous Iron	ND	0 10	mg/l	1	2C07033	02/22/02	02/22/02	Hach Co 8146	

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6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L202120-02) Water Sampled 02/22/02 12.23 Received: 02/22/02 15:45									
Nitrate as NO3	ND	0 50	mg/l	1	2B26030	02/22/02	02/22/02	EPA 300 0	
Sulfate as SO4	**3.4**	0 50	"	"	"	"	"	"	
MW-2 (L202120-03) Water Sampled 02/22/02 12 50 Received 02/22/02 15 45									
Nitrate as NO3	ND	0 50	mg/l	1	2B26030	02/22/02	02/22/02	EPA 300 0	
Sulfate as SO4	**38**	5 0	"	10	"	"	02/22/02	"	
MW-3 (L202120-04) Water Sampled 02/22/02 11 53 Received 02/22/02 15:45									
Nitrate as NO3	ND	0 50	mg/l	1	2B26030	02/22/02	02/22/02	EPA 300 0	
Sulfate as SO4	**49**	5 0	"	10	"	"	02/22/02	"	
MW-4 (L202120-05) Water Sampled: 02/22/02 11 28 Received 02/22/02 15:45									
Nitrate as NO3	**15**	0 50	mg/l	1	2B26030	02/22/02	02/22/02	EPA 300 0	
Sulfate as SO4	**27**	5 0	"	10	"	"	02/22/02	"	
MW-5 (L202120-06) Water Sampled 02/22/02 07 52 Received 02/22/02 15 45									
Nitrate as NO3	ND	0 50	mg/l	1	2B26030	02/22/02	02/22/02	EPA 300 0	
Sulfate as SO4	**39**	5 0	"	10	"	"	02/22/02	"	
MW-6 (L202120-07) Water Sampled 02/22/02 13 25 Received: 02/22/02 15 45									
Nitrate as NO3	ND	0 50	mg/l	1	2B26030	02/22/02	02/23/02	EPA 300 0	
Sulfate as SO4	ND	0 50	"	"	"	"	"	"	
MW-7 (L202120-08) Water Sampled 02/22/02 07 12 Received 02/22/02 15.45									
Nitrate as NO3	ND	0 50	mg/l	1	2B26030	02/22/02	02/23/02	EPA 300 0	
Sulfate as SO4	**2 4**	0 50	"	"	"	"	"	"	

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6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (L202120-09) Water Sampled: 02/22/02 10:50 Received 02/22/02 15 45									
Nitrate as NO3	**0 56**	0 50	mg/l	1	2B26030	02/22/02	02/23/02	EPA 300 0	
Sulfate as SO4	**37**	5 0	"	10	"	"	02/22/02	"	
MW-9 (L202120-10) Water Sampled: 02/22/02 10:16 Received 02/22/02 15:45									
Nitrate as NO3	**22**	5 0	mg/l	10	2B26030	02/22/02	02/22/02	EPA 300 0	
Sulfate as SO4	**28**	5 0	"	"	"	"	"	"	
MW-10 (L202120-11) Water Sampled: 02/22/02 09 28 Received: 02/22/02 15:45									
Nitrate as NO3	ND	0 50	mg/l	1	2B26030	02/22/02	02/23/02	EPA 300 0	
Sulfate as SO4	**30**	5 0	"	10	"	"	02/22/02	"	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Subcontracted Analyses

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L202120-02) Water Sampled 02/22/02 12:23 Received 02/22/02 15·45									
Oxidation/Reduction Potential	**210**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-2 (L202120-03) Water Sampled: 02/22/02 12 50 Received: 02/22/02 15·45									
Oxidation/Reduction Potential	**270**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-3 (L202120-04) Water Sampled 02/22/02 11:53 Received 02/22/02 15 45									
Oxidation/Reduction Potential	**250**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-4 (L202120-05) Water Sampled 02/22/02 11:28 Received 02/22/02 15:45									
Oxidation/Reduction Potential	**590**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-5 (L202120-06) Water Sampled· 02/22/02 07 52 Received· 02/22/02 15 45									
Oxidation/Reduction Potential	**630**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-6 (L202120-07) Water Sampled: 02/22/02 13·25 Received 02/22/02 15 45									
Oxidation/Reduction Potential	**540**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-7 (L202120-08) Water Sampled 02/22/02 07 12 Received: 02/22/02 15:45									
Oxidation/Reduction Potential	**610**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-8 (L202120-09) Water Sampled. 02/22/02 10:50 Received. 02/22/02 15.45									
Oxidation/Reduction Potential	**630**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	
MW-9 (L202120-10) Water Sampled 02/22/02 10 16 Received. 02/22/02 15:45									
Oxidation/Reduction Potential	**620**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Subcontracted Analyses

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (L202120-11) Water Sampled 02/22/02 09 28 Received 02/22/02 15 45									
Oxidation/Reduction Potential	**590**	10	mv	1	2C08017	02/22/02	02/22/02	ASTM D149876	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030001 - EPA 5030B (P/T)										
Blank (2030001-BLK1)				Prepared & Analyzed 03/01/02						
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0 50	"							
Toluene	ND	0 50	"							
Ethylbenzene	ND	0 50	"							
Xylenes (total)	ND	0 50	"							
Methyl tert-butyl ether	ND	5 0	"							
Surrogate a a a-Trifluorotoluene	*7 87*		"	*10 0*		*78 7*	*70-130*			
LCS (2030001-BS1)				Prepared & Analyzed 03/01/02						
Benzene	8 48	0 50	ug/l	10 0		84 8	70-130			
Toluene	8 67	0 50	"	10 0		86 7	70-130			
Ethylbenzene	8 92	0 50	"	10 0		89 2	70-130			
Xylenes (total)	26 7	0 50	"	30 0		89 0	70-130			
Surrogate a,a a-Trifluorotoluene	*8 88*		"	*10 0*		*88 8*	*70-130*			
LCS (2030001-BS2)				Prepared & Analyzed 03/01/02						
Purgeable Hydrocarbons as Gasoline	261	50	ug/l	250		104	70-130			
Surrogate a a a-Trifluorotoluene	*9 38*		"	*10 0*		*93 8*	*70-130*			
Matrix Spike (2030001-MS1)	**Source L202118-10**			Prepared 03/01/02 Analyzed 03/02/02						
Purgeable Hydrocarbons as Gasoline	279	50	ug/l	250	ND	112	60-140			
Surrogate a a a-Trifluorotoluene	*8 63*		"	*10 0*		*86 3*	*70-130*			
Matrix Spike Dup (2030001-MSD1)	**Source L202118-10**			Prepared 03/01/02 Analyzed 03/02/02						
Purgeable Hydrocarbons as Gasoline	256	50	ug/l	250	ND	102	60-140	8 60	25	
Surrogate a,a a-Trifluorotoluene	*8 56*		"	*10 0*		*85 6*	*70-130*			

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030011 - EPA 5030B (P/T)										
Blank (2030011-BLK1)				Prepared & Analyzed 03/05/02						
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0 50	"							
Toluene	ND	0 50	"							
Ethylbenzene	ND	0 50	"							
Xylenes (total)	ND	0 50	"							
Methyl tert-butyl ether	ND	5 0	"							
Surrogate a a a-Trifluorotoluene	*9 72*		"	*10 0*		*97 2*	*70 130*			
Blank (2030011-BLK2)				Prepared & Analyzed 03/06/02						
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0 50	"							
Toluene	ND	0 50	"							
Ethylbenzene	ND	0 50	"							
Xylenes (total)	ND	0 50	"							
Methyl tert-butyl ether	ND	5 0	"							
Surrogate a a,a Trifluorotoluene	*9 87*		"	*10 0*		*98 7*	*70 130*			
LCS (2030011-BS1)				Prepared & Analyzed 03/05/02						
Benzene	9 63	0 50	ug/l	10 0		96 3	70-130			
Toluene	10 2	0 50	"	10 0		102	70-130			
Ethylbenzene	10 8	0 50	"	10 0		108	70-130			
Xylenes (total)	32 5	0 50	"	30 0		108	70-130			
Surrogate a,a a-Trifluorotoluene	*10 8*		"	*10 0*		*108*	*70-130*			
LCS (2030011-BS2)				Prepared & Analyzed 03/05/02						
Purgeable Hydrocarbons as Gasoline	271	50	ug/l	250		108	70-130			
Surrogate a a a-Trifluorotoluene	*10 9*		"	*10 0*		*109*	*70-130*			

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San Carlos CA 94070
(650) 232 9600
FAX (650) 232-9612
www sequoialabs com

Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030011 - EPA 5030B (P/T)										
LCS (2030011-BS3)				Prepared & Analyzed 03/06/02						
Benzene	9 68	0 50	ug/l	10 0		96 8	70-130			
Toluene	10 0	0 50	"	10 0		100	70-130			
Ethylbenzene	10 3	0 50	"	10 0		103	70-130			
Xylenes (total)	30 6	0 50	"	30 0		102	70-130			
Surrogate a,a a-Trifluorotoluene	*11 0*		"	*10 0*		*110*	*70-130*			
LCS (2030011-BS4)				Prepared & Analyzed 03/06/02						
Purgeable Hydrocarbons as Gasoline	260	50	ug/l	250		104	70-130			
Surrogate a a a-Trifluorotoluene	*10 3*		"	*10 0*		*103*	*70-130*			
Matrix Spike (2030011-MS1)	**Source L202120-05**			Prepared 03/05/02 Analyzed 03/06/02						
Purgeable Hydrocarbons as Gasoline	286	50	ug/l	250	ND	114	60-140			
Surrogate a a,a-Trifluorotoluene	*10 8*		"	*10 0*		*108*	*70-130*			
Matrix Spike Dup (2030011-MSD1)	**Source L202120-05**			Prepared 03/05/02 Analyzed 03/06/02						
Purgeable Hydrocarbons as Gasoline	275	50	ug/l	250	ND	110	60-140	3 92	25	
Surrogate a a a-Trifluorotoluene	*10 3*		"	*10 0*		*103*	*70-130*			
Batch 2030012 - EPA 5030B (P/T)										
Blank (2030012-BLK1)				Prepared & Analyzed 03/06/02						
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0 50	"							
Toluene	ND	0 50	"							
Ethylbenzene	ND	0 50	"							
Xylenes (total)	ND	0 50	"							
Methyl tert-butyl ether	ND	5 0	"							
Surrogate a a a Trifluorotoluene	*9 60*		"	*10 0*		*96 0*	*70 130*			

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6747 Sierra Court Suite J	Project Number Tosco #3135, Oakland	**Reported:**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09:40

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030012 - EPA 5030B (P/T)										
LCS (2030012-BS1)				Prepared & Analyzed 03/06/02						
Benzene	10.2	0.50	ug/l	10.0		102	70-130			
Toluene	9.79	0.50	"	10.0		97.9	70-130			
Ethylbenzene	9.87	0.50	"	10.0		98.7	70-130			
Xylenes (total)	29.5	0.50	"	30.0		98.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.91*		"	*10.0*		*99.1*	*70-130*			
LCS (2030012-BS2)				Prepared & Analyzed 03/06/02						
Purgeable Hydrocarbons as Gasoline	256	50	ug/l	250		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.7*		"	*10.0*		*107*	*70-130*			
Matrix Spike (2030012-MS1)	**Source: L202120-10**			Prepared & Analyzed 03/06/02						
Purgeable Hydrocarbons as Gasoline	253	50	ug/l	250	ND	101	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.48*		"	*10.0*		*94.8*	*70-130*			
Matrix Spike Dup (2030012-MSD1)	**Source: L202120-10**			Prepared 03/06/02 Analyzed 03/07/02						
Purgeable Hydrocarbons as Gasoline	272	50	ug/l	250	ND	109	60-140	7.24	25	
Surrogate: a,a,a-Trifluorotoluene	*9.80*		"	*10.0*		*98.0*	*70-130*			

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6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020079 - EPA 5030B [P/T]										
Blank (2020079-BLK1)				Prepared & Analyzed 02/25/02						
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	2 0	"							
1,2-Dichloroethane	ND	2 0	"							
Di-isopropyl ether	ND	2 0	"							
Ethyl tert-butyl ether	ND	2 0	"							
Methyl tert-butyl ether	ND	2 0	"							
Tert-amyl methyl ether	ND	2 0	"							
Tert-butyl alcohol	ND	100	"							
Surrogate 1 2-Dichloroethane-d4	*51 0*		"	*50 0*		*102*	*70 130*			
Surrogate Toluene-d8	*49 8*		"	*50 0*		*99 6*	*70-130*			
Blank (2020079-BLK2)				Prepared & Analyzed 02/26/02						
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	2 0	"							
1,2-Dichloroethane	ND	2 0	"							
Di-isopropyl ether	ND	2 0	"							
Ethyl tert-butyl ether	ND	2 0	"							
Methyl tert-butyl ether	ND	2 0	"							
Tert-amyl methyl ether	ND	2 0	"							
Tert-butyl alcohol	ND	100	"							
Surrogate 1,2-Dichloroethane-d4	*54 5*		"	*50 0*		*109*	*70-130*			
Surrogate Toluene-d8	*50 7*		"	*50 0*		*101*	*70-130*			
LCS (2020079-BS1)				Prepared & Analyzed 02/25/02						
Methyl tert-butyl ether	47 9	2 0	ug/l	50 0		95 8	70-130			
Surrogate 1 2-Dichloroethane-d4	*51 3*		"	*50 0*		*103*	*70-130*			
Surrogate Toluene-d8	*51 0*		"	*50 0*		*102*	*70-130*			

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Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020079 - EPA 5030B [P/T]										
LCS (2020079-BS2)				Prepared & Analyzed 02/26/02						
Methyl tert-butyl ether	47 7	2 0	ug/l	50 0		95 4	70-130			
Surrogate 1 2-Dichloroethane-d4	*51 9*		"	*50 0*		*104*	*70-130*			
Surrogate Toluene-d8	*51 2*		"	*50 0*		*102*	*70-130*			
Matrix Spike (2020079-MS1)		**Source. L202120-12**		Prepared & Analyzed 02/25/02						
Methyl tert-butyl ether	50 7	2 0	ug/l	50 0	ND	101	60-140			
Surrogate 1 2-Dichloroethane-d4	*51 6*		"	*50 0*		*103*	*70-130*			
Surrogate Toluene-d8	*49 7*		"	*50 0*		*99 4*	*70-130*			
Matrix Spike Dup (2020079-MSD1)		**Source L202120-12**		Prepared & Analyzed 02/25/02						
Methyl tert-butyl ether	49 9	2 0	ug/l	50 0	ND	99 8	60-140	1 59	25	
Surrogate 1 2-Dichloroethane-d4	*52 3*		"	*50 0*		*105*	*70-130*			
Surrogate Toluene-d8	*50 3*		"	*50 0*		*101*	*70-130*			
Batch 2030010 - EPA 5030B [P/T]										
Blank (2030010-BLK1)				Prepared & Analyzed 03/05/02						
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	2 0	"							
1,2-Dichloroethane	ND	2 0	"							
Di-isopropyl ether	ND	2 0	"							
Ethyl tert-butyl ether	ND	2 0	"							
Methyl tert-butyl ether	ND	2 0	"							
Tert-amyl methyl ether	ND	2 0	"							
Tert-butyl alcohol	ND	100	"							
Surrogate 1 2-Dichloroethane-d4	*47 2*		"	*50 0*		*94 4*	*70 130*			
Surrogate Toluene-d8	*50 7*		"	*50 0*		*101*	*70-130*			

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6747 Sierra Court Suite J	Project Number Tosco #3135 Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030010 - EPA 5030B [P/T]										
Blank (2030010-BLK2)				Prepared & Analyzed 03/07/02						
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	2 0	"							
1,2-Dichloroethane	ND	2 0	"							
Di-isopropyl ether	ND	2 0	"							
Ethyl tert-butyl ether	ND	2 0	"							
Methyl tert-butyl ether	ND	2 0	"							
Tert-amyl methyl ether	ND	2 0	"							
Tert-butyl alcohol	ND	100	"							
Surrogate 1 2-Dichloroethane-d4	*49 1*		"	*50 0*		*98 2*	*70-130*			
Surrogate Toluene-d8	*50 2*		"	*50 0*		*100*	*70-130*			
LCS (2030010-BS1)				Prepared & Analyzed 03/05/02						
Methyl tert-butyl ether	48 4	2 0	ug/l	50 0		96 8	70-130			
Surrogate 1 2-Dichloroethane-d4	*47 8*		"	*50 0*		*95 6*	*70-130*			
Surrogate Toluene-d8	*49 6*		"	*50 0*		*99 2*	*70-130*			
LCS (2030010-BS2)				Prepared & Analyzed 03/07/02						
Methyl tert-butyl ether	48 0	2 0	ug/l	50 0		96 0	70-130			
Surrogate 1,2-Dichloroethane-d4	*50 5*		"	*50 0*		*101*	*70-130*			
Surrogate Toluene-d8	*51 0*		"	*50 0*		*102*	*70 130*			
Matrix Spike (2030010-MS1)	**Source L203008-02**			Prepared & Analyzed 03/05/02						
Methyl tert-butyl ether	128	2 0	ug/l	50 0	78	100	60-140			
Surrogate 1 2-Dichloroethane-d4	*53 5*		"	*50 0*		*107*	*70-130*			
Surrogate Toluene-d8	*51 3*		"	*50 0*		*103*	*70-130*			
Matrix Spike Dup (2030010-MSD1)	**Source L203008-02**			Prepared & Analyzed 03/05/02						
Methyl tert-butyl ether	118	2 0	ug/l	50 0	78	80 0	60-140	8 13	25	
Surrogate 1 2-Dichloroethane-d4	*50 7*		"	*50 0*		*101*	*70-130*			
Surrogate Toluene-d8	*49 7*		"	*50 0*		*99 4*	*70-130*			

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Diesel Hydrocarbons (C10-C28) by 8015B modified - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C05011 - EPA 3510B										
Blank (2C05011-BLK1)				Prepared 03/05/02 Analyzed 03/06/02						
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate n Octacosane	*32 6*		"	*50 0*		*65 2*	*50-150*			
LCS (2C05011-BS1)				Prepared 03/05/02 Analyzed 03/06/02						
Diesel Range Organics (C10-C28)	476	50	ug/l	500		95 2	60-140			
Surrogate n-Octacosane	*34 8*		"	*50 0*		*69 6*	*50-150*			
LCS Dup (2C05011-BSD1)				Prepared 03/05/02 Analyzed 03/06/02						
Diesel Range Organics (C10-C28)	440	50	ug/l	500		88 0	60-140	7 86	50	
Surrogate n-Octacosane	*32 6*		"	*50 0*		*65 2*	*50-150*			

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C07033 - General Preparation										
Blank (2C07033-BLK1)				Prepared & Analyzed 02/22/02						
Ferrous Iron	ND	0 10	mg/l							
LCS (2C07033-BS1)				Prepared & Analyzed 02/22/02						
Ferrous Iron	0 429	0 10	mg/l	0 400		107	90-110			
Matrix Spike (2C07033-MS1)		Source L202120-09		Prepared & Analyzed 02/22/02						
Ferrous Iron	0 505	0 10	mg/l	0 400	ND	126	80-120			QM-07
Matrix Spike Dup (2C07033-MSD1)		Source L202120-09		Prepared & Analyzed 02/22/02						
Ferrous Iron	0 502	0 10	mg/l	0 400	ND	126	80-120	0 596	20	QM-07

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6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA 94568	Project Manager Deanna Harding	04/10/02 09 40

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2B26030 - General Preparation										
Blank (2B26030-BLK1)				Prepared 02/22/02		Analyzed 02/23/02				
Nitrate as NO3	ND	0 50	mg/l							
Sulfate as SO4	ND	0 50	"							
LCS (2B26030-BS1)				Prepared 02/22/02		Analyzed 02/23/02				
Nitrate as NO3	10 2	0 50	mg/l	10 0		102	90-110			
Sulfate as SO4	10 4	0 50	"	10 0		104	90-110			
Matrix Spike (2B26030-MS1)	**Source L202120-11**			Prepared 02/22/02		Analyzed 02/23/02				
Nitrate as NO3	1080	50	mg/l	1000	ND	108	80-120			
Sulfate as SO4	1090	50	"	1000	ND	106	80-120			
Matrix Spike Dup (2B26030-MSD1)	**Source: L202120-11**			Prepared 02/22/02		Analyzed 02/23/02				
Nitrate as NO3	1080	50	mg/l	1000	ND	108	80-120	0 00	20	
Sulfate as SO4	1080	50	"	1000	ND	105	80-120	0 922	20	

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6747 Sierra Court Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Subcontracted Analyses - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C08017 - General Preparation										
Duplicate (2C08017-DUP1)	**Source. L202120-02**		Prepared & Analyzed 02/22/02							
Oxidation/Reduction Potential	211	10	mv		210			0 475	20	

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Gettler-Ryan/Geostrategies(1)	Project Tosco(1)	
6747 Sierra Court, Suite J	Project Number Tosco #3135, Oakland	**Reported**
Dublin CA, 94568	Project Manager Deanna Harding	04/10/02 09 40

Notes and Definitions

D-15	Chromatogram Pattern Unidentified Hydrocarbons C10-C28
HT-08	EPA 8015B recommends a 7 day holding time However, according to the 14 day holding time referenced in the California LUFT manual, the results are valid and useful for their intended purpose
M-04	MTBE was reported from second analysis
P-02	Chromatogram Pattern Weathered Gasoline C6-C12
QM-07	The spike recovery was outside control limits for the MS and/or MSD The batch was accepted based on acceptable LCS recovery
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference