R 251

ConocoPhillips

2000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

Phone: (925) 277-2305
Fax: (925) 277-2361

Environmental Department

August 28, 2003

Re: Tosco (Unocal) Service Station #3538
411 West MacAurthur Blvd.
Oakland, California

" I declare under penalty of perjury, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report is true and correct"

David B. DeWitt
Site Manager
ConocoPhillips

GETTLER-RYAN INC.

TRANSMITTAL

August 12, 2003
G-R #180064

TO: Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

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

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

RE: Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 5, 2003	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of July 10, 2003

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by ***August 27, 2003***, this report will be distributed to the following:

cc: Mr. Scott Seary, Alameda County Health Care Services, 1131 Harbor Bay Pkwy., Alameda, CA 94502

Enclosure

trans/3538-DBD

GETTLER-RYAN INC.

August 5, 2003
G-R Job #180064

Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

RE: Second Semi-Annual Event of July 10, 2003
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
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. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical report are also attached.

Sincerely,

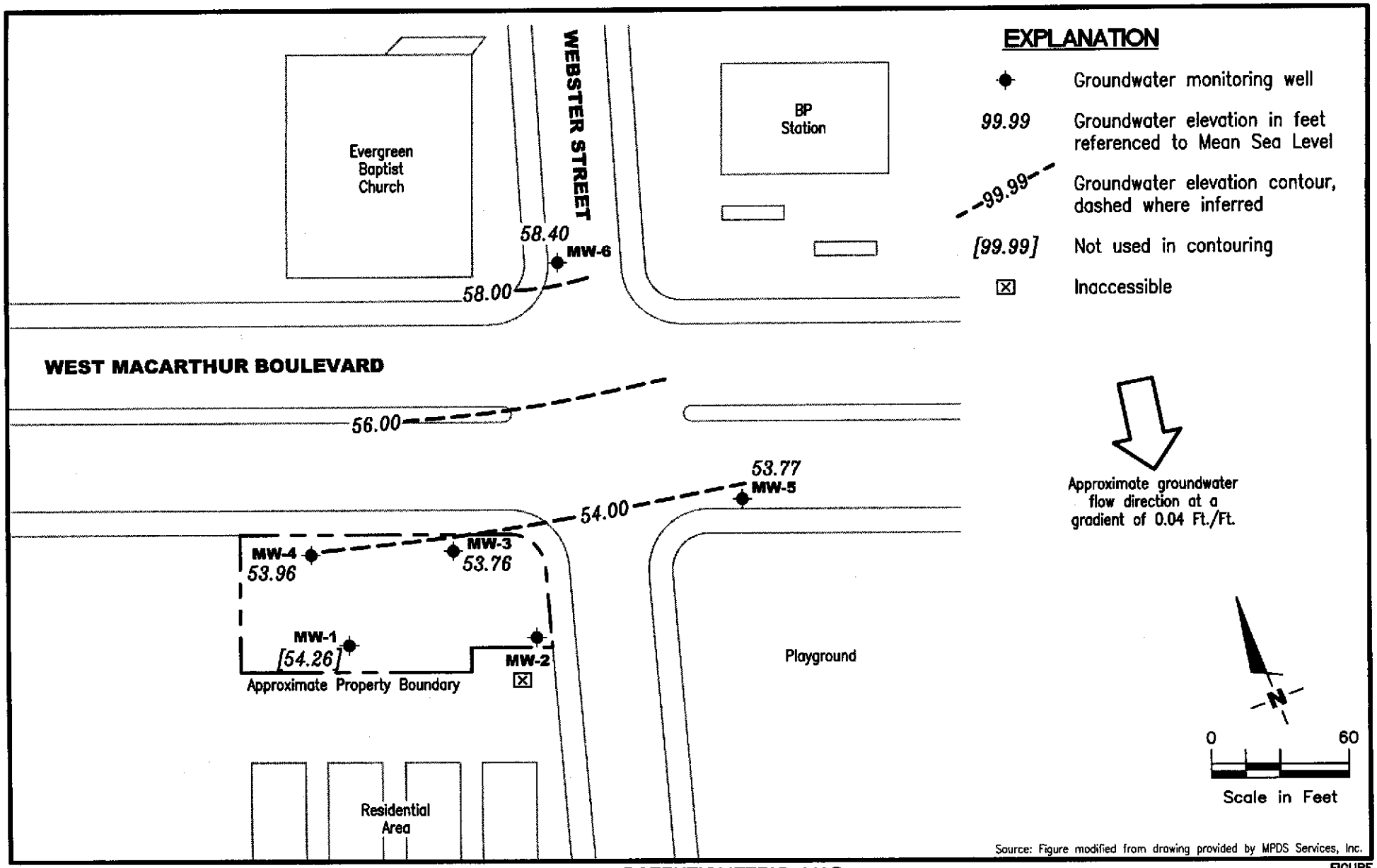
Deanna L. Harding
Project Coordinator

Robert C. Mallory
Registered Geologist No. 7285

REGISTERED GEOLOGIST
ROBERT C. MALLORY
No. 7285
Exp. 01/04
STATE OF CALIFORNIA

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

3538.qml



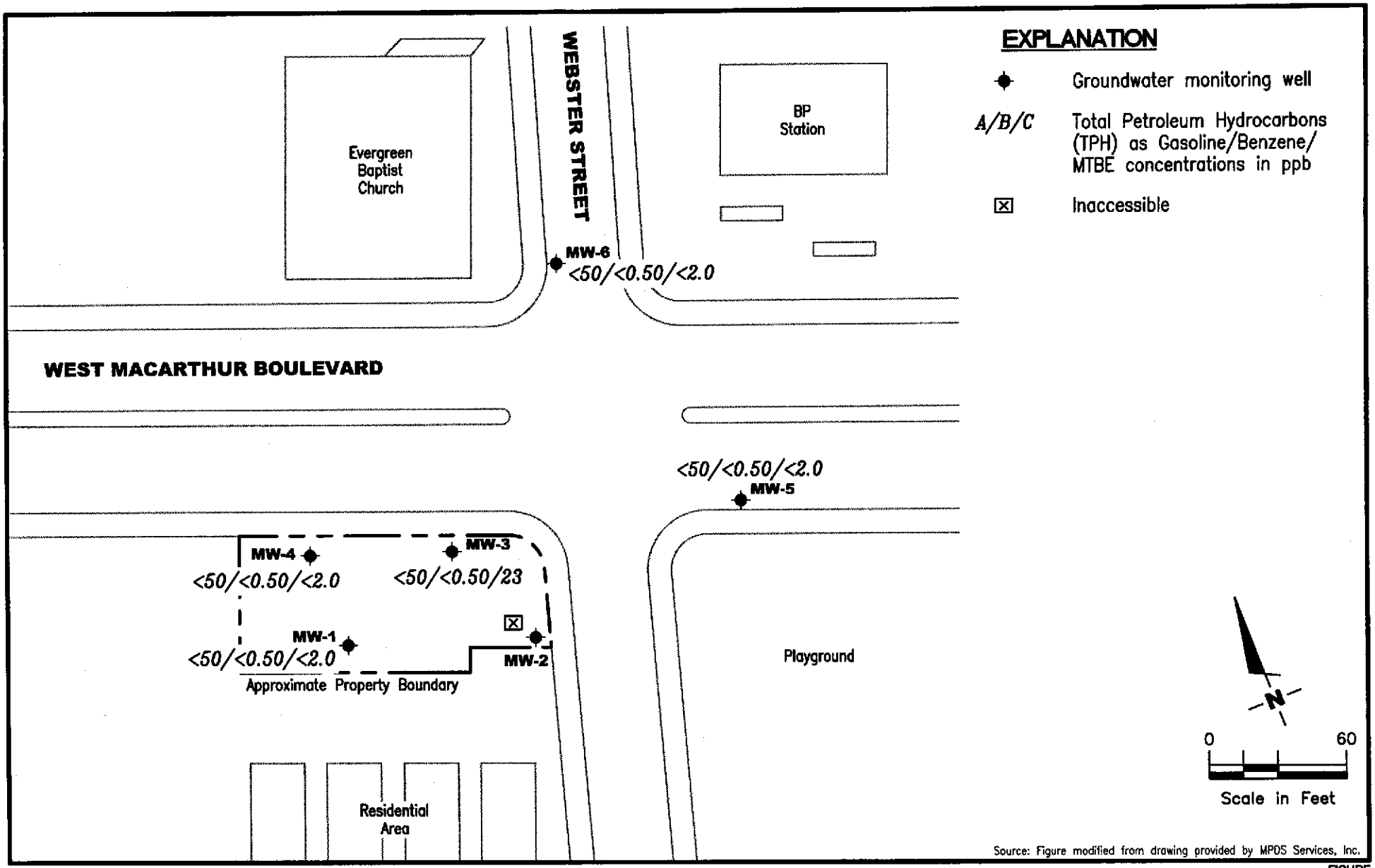
GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180064		July 10, 2003	

FILE NAME: P:\ENVIRO\CONOCOPHILLIPS-TOSCO\3538\Q03-3538.DWG | Layout Tab: Pat3



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

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

CONCENTRATION MAP
Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180064		July 10, 2003	

FILE NAME: P:\ENVIRO\CONOCOPHILLIPS-TOSCO\3538\Q03-3538.DWG | Layout Tab: Con3

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538

411 West MacArthur Boulevard

Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	09/15/89	--	5.0-29.0	--	ND	ND	0.61	ND	ND	--
	01/23/90	--		--	ND	1.5	2.3	ND	4.3	--
	04/19/90	--		--	ND	ND	ND	ND	ND	--
	07/17/90	--		--	ND	ND	ND	ND	ND	--
	10/16/90	--		--	ND	ND	ND	ND	ND	--
	01/15/91	--		--	ND	ND	ND	ND	ND	--
	04/12/91	--		--	ND	ND	ND	ND	ND	--
	07/15/91	--		--	ND	ND	ND	ND	ND	--
	07/14/92	--		--	ND	ND	ND	ND	ND	--
72.43	04/13/93	17.70		54.73	SAMPLED ANNUALLY		--	--	--	--
	07/14/93	18.49		53.94	ND	2.2	2.1	1.1	6.2	--
72.10	10/14/93	18.32		53.78	--	--	--	--	--	--
	01/12/94	18.18		53.92	--	--	--	--	--	--
	04/11/94	17.80		54.30	--	--	--	--	--	--
	07/07/94	18.28		53.82	ND	ND	ND	ND	ND	--
	10/05/94	18.55		53.55	--	--	--	--	--	--
	01/09/95	17.90		54.20	--	--	--	--	--	--
	04/17/95	17.22		54.88	--	--	--	--	--	--
	07/19/95	18.03		54.07	ND	ND	ND	ND	ND	--
	10/26/95	18.67		53.43	--	--	--	--	--	--
	01/16/95	17.20		54.90	--	--	--	--	--	--
	04/15/96	17.40		54.70	--	--	--	--	--	--
	07/11/96	18.03		54.07	ND	ND	ND	ND	ND	ND
	01/17/97	16.54		55.56	--	--	--	--	--	--
	07/21/97	18.16		53.94	ND	ND	ND	ND	ND	ND
	01/14/98	16.05		56.05	--	--	--	--	--	--
	07/06/98[5]	16.46		55.64	ND	ND	ND	ND	ND	ND
	01/13/99	17.37		54.73	--	--	--	--	--	--
72.12	08/31/99	17.00		55.12	ND	ND	ND	ND	ND	ND
	01/21/00	17.04		55.08	--	--	--	--	--	--
	07/10/00[5]	18.10		54.02	ND	ND	ND	ND	ND	ND
	01/04/01	17.95		54.17	--	--	--	--	--	--
	07/16/01	18.03		54.09	ND	ND	ND	ND	ND	ND
	01/28/02	17.31		54.81	SAMPLED ANNUALLY		--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538

411 West MacArthur Boulevard

Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	07/12/02	18.15	5.0-29.0	53.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5
(cont)	01/14/03	17.66		54.46	SAMPLED ANNUALLY		--	--	--	--
	07/10/03	**17.86**		**54.26**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.0**
MW-2	09/15/89	--	3.5-28.5	--	290	ND	12	ND	ND	--
	01/23/90	--		--	400	73	36	10	40	--
	04/19/90	--		--	3,900	550	5.1	91	390	--
	07/17/90	--		--	490	76	0.59	11	46	--
	10/16/90	--		--	1,400	430	2.0	48	240	--
	01/15/91	--		--	680	170	0.7	19	81	--
	04/12/91	--		--	2,200	160	4.3	23	62	--
	07/15/91	--		--	2,200	770	12	72	370	--
	10/15/91	--		--	140	44	0.56	1.5	12	--
	01/15/92	--		--	220	37	0.52	1.1	7	--
	04/14/92	--		--	150	6.2	ND	ND	1.4	--
	07/14/92	--		--	130	3.7	ND	ND	ND	--
	10/12/92	--		--	370	3.4	0.56	ND	11	--
	01/08/93	--		--	510[1]	ND	ND	ND	ND	--
71.63	04/13/93	17.86		53.77	410[2]	42	7.7	6.4	28	200
	07/14/93	18.38		53.25	110[1]	6.5	ND	ND	1.1	250
71.38	10/14/93	18.20		53.18	230[1]	5.3	ND	ND	2.1	--
	01/12/94	18.08		53.30	300	7.8	3.8	1.8	10	--
	04/09/94	17.97		53.41	120	10	0.88	1.1	4.9	--
	04/11/94	17.88		53.50	--	--	--	--	--	--
	07/07/94	17.81		53.57	110[1]	4.4	ND	ND	ND	--
	10/05/94	18.33		53.05	720[1]	20	ND	ND	3.1	--
	01/09/95	17.40		53.98	ND	ND	ND	ND	ND	--
	04/17/95	17.50		53.88	93	5.6	0.62	1.7	5.5	--
	07/19/95	18.01		53.37	77	32	0.58	1.7	4.1	--
	10/26/95	18.21		53.17	54[2]	13	ND	ND	0.72	220
	01/16/96[3]	16.58		54.80	120	23	ND	ND	0.99	--
	04/15/96	17.61		53.77	340	21	ND	2.2	3.7	45
	07/11/96	17.98		53.40	540	34	ND	4.3	12	150

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538

411 West MacArthur Boulevard

Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	01/17/97	17.08	3.5-28.5	54.30	320	63	2.4	9.4	26	260
(cont)	07/21/97	18.06		53.32	160	13	ND	1.3	1.6	180
	01/14/98	16.52		54.86	66	6.3	ND	ND	0.98	100
	07/06/98	16.87		54.51	ND	2.3	ND	ND	ND	11
	01/13/99	17.88		53.50	53	24	ND	0.52	0.98	120
71.34	08/31/99	18.45		52.89	86[10]	14	ND	0.63	ND	21
	01/21/00	17.73		53.61	ND	1.94	ND	ND	ND	10.1
	07/10/00	18.14		53.20	ND	ND	ND	ND	ND	46.6
	01/04/01	18.02		53.32	ND	0.925	ND	ND	ND	ND
	07/16/01	18.02		53.32	ND	ND	ND	ND	ND	ND
	01/28/02	17.57		53.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/12/02	18.05		53.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/14/03	17.44		53.90	<50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/10/03	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--
MW-3	09/15/89	--	5.0-29.0	--	32	ND	ND	ND	ND	--
	01/23/90	--		--	450	110	1.2	4.4	11	--
	04/19/90	--		--	3,100	600	27	54	220	--
	07/17/90	--		--	4,000	270	48	130	250	--
	10/16/90	--		--	740	210	1.4	2.5	82	--
	01/15/91	--		--	3,200	460	1.5	120	270	--
	04/12/91	--		--	880	170	1.1	34	110	--
	07/15/91	--		--	9,200	1,300	230	490	1,900	--
	10/15/91	--		--	3,100	390	34	150	390	--
	01/15/92	--		--	3,000	590	14	310	750	--
	04/14/92	--		--	14,000	660	48	560	2,000	--
	07/14/92	--		--	21,000	890	200	1,200	4,300	--
	10/12/92	--		--	3,200	160	10	230	540	--
	01/08/93	--		--	1,100[2]	48	0.99	0.9	93	--
72.06	04/13/93	17.96		54.10	12,000[2]	290	38	760	2,300	1,400
	07/14/93	18.54		53.52	6,300	190	ND	430	1,000	860
71.86	10/14/93	18.45		53.41	2,500	52	ND	110	250	--
	01/12/94	18.34		53.52	3,800	78	ND	180	390	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	04/09/94	18.19	5.0-29.0	53.67	1,800	22	ND	140	280	--
(cont)	04/11/94	18.12		53.74	--	--	--	--	--	--
	07/07/94	18.21		53.65	110[1]	4.5	ND	ND	ND	--
	10/05/94	18.58		53.28	ND	ND	ND	ND	ND	--
	01/09/95	17.69		54.17	ND	0.68	ND	ND	ND	--
	04/17/95	17.68		54.18	3,700	80	10	270	510	--
	07/19/95	18.20		53.66	15,000	330	27	990	2,400	--
	10/26/95	18.32		53.54	14,000	420	180	750	1,600	4,800
	01/16/96[3]	17.95		53.91	920	38	ND	30	57	--
	04/15/96	17.78		54.08	9,700	240	ND	570	860	3,200
	07/11/96	18.19		53.67	13,000	69	5.5	430	900	740
	01/17/97	17.23		54.63	4,400	25	ND	270	580	1,600
	07/21/97	18.29		53.57	9,000	36	ND	450	800	950
	01/14/98	16.71		55.15	7,100	40	ND[4]	380	360	930
	07/06/98	17.03		54.83	6,800[6]	39	ND[4]	320	360	370
	01/13/99[7]	18.00		53.86	1,800	9.4	ND[4]	58	36	180
71.40	08/31/99	--[8]		--	--	--	--	--	--	--
	01/21/00	17.58		53.82	ND	ND	ND	ND	ND	21.4
	07/10/00	18.05		53.35	ND	ND	ND	ND	ND	162
	08/25/00	17.82		53.58	--	--	--	--	--	180[11]
	01/04/01	18.16		53.24	ND	ND	ND	ND	ND	193
	07/16/01	17.98		53.42	ND	ND	ND	ND	ND	660
	01/28/02	17.84		53.56	<50	<0.50	<0.50	<0.50	<0.50	34
	07/12/02	17.87		53.53	<50	<0.50	<0.50	<0.50	<0.50	11/19[11]
	01/14/03	17.28		54.12	<50	<0.50	<0.50	<0.50	<0.50	12
	07/10/03	**17.64**		**53.76**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**23**
MW-4	09/15/89	--	5.0-29.0	--	ND	ND	ND	ND	ND	--
	01/23/90	--		--	ND	ND	0.4	ND	ND	--
	04/19/90	--		--	ND	ND	0.48	ND	ND	--
	07/17/90	--		--	ND	ND	ND	ND	ND	--
	10/16/90	--		--	ND	ND	ND	ND	ND	--
	01/15/91	--		--	ND	ND	ND	--	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	04/12/91	--	5.0-29.0	--	ND	ND	ND	ND	ND	--
(cont)	07/15/91	--		--	ND	ND	ND	ND	ND	--
	07/14/92	--		--	ND	1.3	2.5	ND	1.0	--
71.98	04/13/93	17.67		54.31	SAMPLED ANNUALLY		--	--	--	--
	07/14/93	18.31		53.67	ND	ND	ND	ND	ND	--
71.64	10/14/93	18.08		53.56	--	--	--	--	--	--
	01/12/94	17.97		53.67	--	--	--	--	--	--
	04/11/94	17.70		53.94	--	--	--	--	--	--
	07/07/94	17.80		53.84	ND	ND	ND	ND	ND	--
	10/05/94	18.28		53.36	--	--	--	--	--	--
	01/09/95	17.38		54.26	--	--	--	--	--	--
	04/17/95	17.21		54.43	SAMPLED ANNUALLY		--	--	--	--
	07/19/95	17.82		53.82	ND	ND	ND	ND	ND	--
	10/26/95	18.17		53.47	--	--	--	--	--	--
	01/16/96	16.45		55.19	--	--	--	--	--	--
	04/15/96	17.35		54.29	--	--	--	--	--	--
	07/11/96	17.81		53.83	ND	ND	ND	ND	ND	ND
	01/17/97	16.73		54.91	--	--	--	--	--	--
	07/21/97	17.91		53.73	ND	ND	ND	ND	ND	ND
	01/14/98	16.18		55.46	--	--	--	--	--	--
	07/06/98	16.49		55.15	ND	ND	ND	ND	ND	ND
	01/13/99	17.29		54.35	--	--	--	--	--	--
71.54	08/31/99	--[9]		--	--	--	--	--	--	--
	01/21/00	17.51		54.03	--	--	--	--	--	--
	07/10/00	17.93		53.61	ND	ND	ND	ND	ND	ND
	01/04/01	18.10		53.44	--	--	--	--	--	--
	07/16/01	17.76		53.78	ND	ND	ND	ND	ND	ND
	01/28/02	17.20		54.34	SAMPLED ANNUALLY		--	--	--	--
	07/12/02	17.81		53.73	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/14/03	17.30		54.24	SAMPLED ANNUALLY		--	--	--	--
	07/10/03	**17.58**		**53.96**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538

411 West MacArthur Boulevard

Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	11/30/92	--	13.0-30.0	--	ND	ND	ND	ND	ND	--
	01/08/93	--		--	ND	ND	ND	ND	ND	--
71.51	04/13/93	17.49		54.02	ND	ND	ND	ND	ND	--
	07/14/93	18.02		53.49	ND	ND	0.57	ND	ND	--
71.23	10/14/93	17.82		53.41	ND	ND	ND	ND	ND	--
	01/12/94	17.74		53.49	ND	ND	0.84	ND	1.6	--
	04/11/94	17.56		53.67	SAMPLED ANNUALLY		--	--	--	--
	07/07/94	17.50		53.73	ND	ND	ND	ND	ND	--
	10/05/94	17.98		53.25	--	--	--	--	--	--
	01/09/95	17.13		54.10	--	--	--	--	--	--
	04/17/95	17.05		54.18	--	--	--	--	--	--
	07/19/95	17.59		53.64	ND	ND	ND	ND	ND	--
	10/26/95	18.10		53.13	--	--	--	--	--	--
	01/16/96	17.11		54.12	--	--	--	--	--	--
	04/15/96	17.22		54.01	--	--	--	--	--	--
	07/11/96	17.59		53.64	ND	ND	ND	ND	ND	ND
	01/17/97	16.75		54.48	SAMPLED ANNUALLY		--	--	--	--
	07/21/97	17.59		53.64	ND	ND	ND	ND	ND	ND
	01/14/98	16.16		55.07	--	--	--	--	--	--
	07/06/98	16.52		54.71	ND	ND	ND	ND	ND	ND
	01/13/99	17.62		53.61	--	--	--	--	--	--
71.16	08/31/99	17.76		53.40	ND	ND	ND	ND	ND	ND
	01/21/00	16.83		54.33	--	--	--	--	--	--
	07/10/00	17.46		53.70	ND	ND	ND	ND	ND	ND
	01/04/01	17.51		53.65	--	--	--	--	--	--
	07/16/01	17.32		53.84	ND	ND	ND	ND	ND	ND
	01/28/02	17.12		54.04	SAMPLED ANNUALLY		--	--	--	--
	07/12/02	17.12		54.04	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/14/03	16.67		54.49	SAMPLED ANNUALLY		--	--	--	--
	07/10/03	**17.39**		**53.77**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	11/30/92	--	13.0-30.0	--	ND	ND	ND	ND	ND	--
	01/08/93	--		--	ND	ND	ND	ND	ND	--
71.79	04/13/93	11.94		59.85	ND	ND	ND	ND	ND	--
	07/14/93	17.20		54.59	ND	0.99	2.4	ND	1.9	--
71.44	10/14/93	17.21		54.23	ND	ND	0.64	ND	ND	--
	01/12/94	17.44		54.00	ND	ND	1.2	ND	2.9	--
	04/11/94	13.66		57.78	SAMPLED ANNUALLY		--	--	--	--
	07/07/94	14.05		57.39	ND	ND	ND	ND	ND	--
	10/05/94	14.16		57.28	--	--	--	--	--	--
	01/09/95	13.73		57.71	--	--	--	--	--	--
	04/17/95	11.30		60.14	--	--	--	--	--	--
	07/19/95	12.32		59.12	ND	ND	ND	ND	ND	--
	10/26/95	17.88		53.56	--	--	--	--	--	--
	01/16/96	16.38		55.06	--	--	--	--	--	--
	04/15/96	14.00		57.44	--	--	--	--	--	--
	07/11/96	13.58		57.86	ND	ND	ND	ND	ND	ND
	01/17/97	15.42		56.02	--	--	--	--	--	--
	07/21/97	13.78		57.66	ND	ND	ND	ND	ND	ND
	01/14/98	13.65		57.79	--	--	--	--	--	--
	07/06/98	13.90		57.54	ND	ND	ND	ND	ND	ND
	01/13/99	14.93		56.51	--	--	--	--	--	--
71.37	08/31/99	15.81		55.56	ND	ND	ND	ND	ND	ND
	01/21/00	16.13		55.24	SAMPLED ANNUALLY		--	--	--	--
	07/10/00	16.95		54.42	ND	ND	ND	ND	ND	ND
	01/04/01	17.09		54.28	--	--	--	--	--	--
	07/16/01	16.83		54.54	ND	ND	ND	ND	ND	ND
	01/28/02	14.58		56.79	SAMPLED ANNUALLY		--	--	--	--
	07/12/02	16.76		54.61	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/14/03	16.25		55.12	SAMPLED ANNUALLY		--	--	--	--
	07/10/03	**12.97**		**58.40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538

411 West MacArthur Boulevard

Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank										
TB-LB	01/14/98	--	--	--	ND	ND	ND	ND	ND	ND
	07/06/98	--		--	ND	ND	ND	ND	ND	ND
	01/13/99	--		--	ND	ND	ND	ND	ND	ND
	08/31/99	--		--	ND	ND	1.5	ND	2.3	39
	01/21/00	--		--	ND	ND	ND	ND	ND	ND
	07/10/00	--		--	ND	ND	ND	ND	ND	ND
	01/04/01	--		--	ND	ND	ND	ND	ND	ND
	07/16/01	--		--	ND	ND	ND	ND	ND	ND
	01/28/02	--		--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	07/12/02	--		--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/14/03	--		--	<50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/10/03	--		--	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to January 14, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
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
ND = Not Detected
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations are relative to msl, per the City of Oakland Benchmark #9NW10. (Elevation = 75.50 feet msl). Prior to October 14, 1994, the DTW measurements were taken from the top of well covers. On September 15, 1999, TOC elevations were resurveyed City of Oakland Benchmark being a square brass pin in the concrete gutter at the southwest corner of Webster & MacArthur. The stationing data is with reference to the back of sidewalk on MacArthur in front of the site. Benchmark (Elevation = 71.055 feet, msl)

1 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and a non-gasoline mixture.
3 Laboratory report indicates the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb.
4 Detection limit raised. Refer to analytical reports.
5 All EPA Method 8010 constituents were ND.
6 Laboratory report indicates gasoline and unidentified hydrocarbons <C7.
7 TOC measurement may have been altered due to damaged casing.
8 Well was obstructed by a solid at 0.5 feet.
9 Well was obstructed by a solid (concrete or soil) at 10.4 feet.
10 Laboratory report indicates gasoline C6-C12.
11 MTBE by EPA Method 8260.

Table 2

Groundwater Analytical Results

Tosco (Unocal) Service Station #3538
411 West MacArthur Boulevard
Oakland, California

WELL ID	DATE	TPH-D (ppb)	TOG (ppb)	Tetrachloroethene[1] (ppb)
MW-1	09/15/89	ND	ND	2.7
	01/23/90	ND	1.5	2.1
	04/19/90	ND	ND	2.2
	07/17/90	ND	ND	1.7
	10/16/90	ND	ND	2.0
	01/15/91	ND	ND	2.1
	04/12/91	ND	ND	2.0
	07/15/91	ND	ND	1.8
	07/14/92	--	--	1.4
	07/14/93	--	--	0.95
	07/07/94	--	--	0.83
	07/19/95	--	--	0.52
	07/11/96[2]	--	--	0.73
	07/21/97[3]	--	--	0.70
	08/31/99	--	--	ND
	07/16/01[4]	--	--	ND
	07/12/02[5]	--	--	<0.60
	07/10/03[6]	--	--	**<0.50**

EXPLANATIONS:

Groundwater laboratory analytical results prior to August 31, 2001, were compiled from reports prepared by MPDS Services, Inc.

TPH-D = Total Petroleum Hydrocarbons as Diesel
TOG = Total Oil and Grease
(ppb) = Parts per billion
ND = Not Detected
-- = Not Analyzed

1 All other EPA Method 8010 constituents were ND.
2 Chloroform was detected at a concentration of 0.96 ppb.
3 Chloroform was detected at a concentration of 1.0 ppb.
4 All EPA Method 8021B constituents were ND with a raised detection limit, except Chloroform was detected at a concentration of 45 ppb and Bromodichloromethane at 1.7 ppb.
5 All EPA Method 8021B constituents were ND , except for Freon 113 was detected at 11 ppb and 1,1-Dichloroethene (1,1-DCA) was detected at 1.8 ppb.
6 All EPA Method 8021B constituents were ND , except for Freon 113 was detected at 7.7 ppb and 1,1-DCA was detected at 0.89 ppb.

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #3538

411 West MacArthur Boulevard

Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	08/25/00	--	ND[1]	180	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/12/02	<500	<20	19	<2.0	<2.0	<2.0	<2.0	<2.0

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 = 1,2-Dibromoethane

(ppb) = Parts per billion

ND = Not Detected

[1] Detection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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 disposable 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 and is labeled as QA. 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 ConocoPhillips Company, the purge water and decontamination water generated during sampling activities is transported to ConocoPhillips - San Francisco Refinery, located in Rodeo, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #3538 Job Number: 180064
Site Address: 411 West Macarthur Blvd. Event Date: 7/10/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-1 Date Monitored: 7/10/03 Well Condition: ok
Well Diameter 2 in.
Total Depth 23.30 ft.
Depth to Water 17.86 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

5.44 xVF 0.17 = 0.92 x3 (case volume) = Estimated Purge Volume: 3 gal.

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 0955 Weather Conditions: clear
Sample Time/Date: 1020 7/10/03 Water Color: brn. Odor:
Purging Flow Rate: gpm. Sediment Description: silt
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
0959	1	7.47	595	66.1		
1005	2	7.36	601	65.8		
1012	3	7.38	604	65.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	3 x voa vial	YES	HCL	SEQUOIA	HVOC'S(8010 list)8021B

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #3538 Job Number: 180064
Site Address: 411 West Macarthur Blvd. Event Date: 7/10/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-2 Date Monitored: _____ Well Condition: *Inaccessible
Well Diameter 2 in.
Total Depth _____ ft.
Depth to Water _____ ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

_____ xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Other: _____

Sampling Equipment:
Disposable Bailer _____
Pressure Bailer _____
Discrete Bailer _____
Other: _____

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	x voa vial	YES	HCL	SEQUOIA	HVOC'S(8010 list)8021B

COMMENTS: * Parked Over. See picture. Have to call a day ahead to clear well. Site packed with Cars.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #3538 Job Number: 180064
Site Address: 411 West Macarthur Blvd. Event Date: 7/10/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-3 Date Monitored: 7/10/03 Well Condition: ok
Well Diameter 2 in.
Total Depth 27.15 ft.
Depth to Water 17.64 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

9.51 xVF 0.17 = 1.61 x3 (case volume) = Estimated Purge Volume: 5 gal.

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump ✓
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1110 Weather Conditions: clear
Sample Time/Date: 1130 7/10/03 Water Color: brn. Odor:
Purging Flow Rate: 1 gpm. Sediment Description: silt little
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1112	1.5	7.72	724	69.3		
1114	3	7.60	719	69.8		
1117	5	7.56	716	70.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	~~x voa vial~~	~~YES~~	~~HCL~~	~~SEQUOIA~~	~~HVOC'S(8010 list)8021B~~

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #3538 Job Number: 180064
Site Address: 411 West Macarthur Blvd. Event Date: 7/10/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-4 Date Monitored: 7/10/03 Well Condition: ok
Well Diameter 2 in.
Total Depth 24.80 ft.
Depth to Water 17.58 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

7.22 xVF 0.17 = 1.22 x3 (case volume) = Estimated Purge Volume: 3.5 gal.

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: NP ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1030 Weather Conditions: clear
Sample Time/Date: 1050 7/10/03 Water Color: brn. Odor:
Purging Flow Rate: gpm. Sediment Description: SH
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1033	1	7.53	729	66.7		
1036	2	7.40	734	66.3		
1042	3.5	7.37	735	66.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	~~x voa vial~~	~~YES~~	~~HCL~~	~~SEQUOIA~~	~~HVOC'S(8010 list)8021B~~

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips #3538 Job Number: 180064
Site Address: 411 West Macarthur Blvd. Event Date: 7/10/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-5 Date Monitored: 7/10/03 Well Condition: ok
Well Diameter 2 in.
Total Depth 30.10 ft.
Depth to Water 17.39 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

12.71 xVF 0.17 = 2.16 x3 (case volume) = Estimated Purge Volume: 6.5 gal.

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump ✓
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 0830 Weather Conditions: clear
Sample Time/Date: 0850 7/10/03 Water Color: clear Odor:
Purging Flow Rate: 1 gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C)	D.O. (mg/L)	ORP (mV)
0832	2	7.62	909	67.7		
0837	4	7.50	901	68.4		
0837	6.5	7.46	894	68.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	~~x voa vial~~	~~YES~~	~~HCL~~	~~SEQUOIA~~	~~TVOC'S(8010 list)8021B~~

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #3538 Job Number: 180064
Site Address: 411 West Macarthur Blvd. Event Date: 7/10/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-6 Date Monitored: 7/10/03 Well Condition: ok
Well Diameter 2 in.
Total Depth 30.04 ft.
Depth to Water 12.97 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

17.07 xVF 0.17 = 2.90 x3 (case volume) = Estimated Purge Volume: 9 gal.

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 0915 Weather Conditions: clear
Sample Time/Date: 0935 7/10/03 Water Color: clear Odor:
Purging Flow Rate: 1 gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0918	3	7.70	634	67.2		
0921	6	7.54	627	67.8		
0924	9	7.50	625	68.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	~~x voa vial~~	~~YES~~	HCL	SEQUOIA	~~HVOC'S(8010 list)~~8021B

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./
Phillips 66 Co.
2000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

Facility Number: #3538
Facility Address: 411 WEST MACARTHUR BLVD., OAKLAND, CA
Global ID: T0600101472 Project: 160084.80
Client Contact: MR. DAVID B. DEWITT
Phone: 916-558-7666

Laboratory Name: Sequoia
Consultant: GETTLER-RYAN, INC. DEANNA L. HARDING
Address: 6747 SIERRA CT., SUITE J, DUBLIN CA 94568
Phone: (925) 551-7555 Fax: (925) 551-7899
Samples Collected by: Vartkes Tashjian

SAMPLE ID	Number of Containers	Matrix: S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W	HCl	7/10/03	X								SBGT		308	-01		
MW-1	6	"	"	" 1020	X										X	-02		Incl WC-5
MW-3	3	"	"	" 1130	X											-03		
MW-4	3	"	"	" 1050	X											-04		
MW-5	3	"	"	" 0850	X											-05		
MW-6	3	"	"	" 0935	X											-06		

OXYGENATES 8260
1 – MTBE
2 – TBA
3 – TAME
4 – DIPE
5 – ETBE
6 – 1,2-DCA
7 – EDB
8 – ETHANOL

Relinquished By (Signature): Vartkes Tashjian	Organization: G-R	Date/Time: 7/10/03 1444	Received By (Signature): SC Pimentel	Organization: Sequoia LLC	Date/Time: 7/10/03 1444	Iced Y/N
Relinquished By (Signature): [illegible]	Organization: SI	Date/Time: 7/10 1725	Received By (Signature): [illegible]	Organization	Date/Time: 7/10/03	Iced Y/N
Relinquished By (Signature): [illegible]	Organization	Date/Time: 7/10 1932	Received For Laboratory By (Signature): [illegible]		Date/Time: 7/10 1932	Iced Y/N

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

FILE NAME: P:\DRAWG\X-CHAIN\STDCOC.DWG | Layout Tab: Model

Sig: MH 7/10/03 [illegible] Relinq: Jamie Losey Sequoia 7/14/03 [illegible]

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28 July, 2003

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

RE: TOSCO 3538, Oakland, CA
Work Order: S307308

Enclosed are the results of analyses for samples received by the laboratory on 07/10/03 19:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
QA Manager / Client Services Representative

CA ELAP Certificate #1624

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Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 3538, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307308 **Reported:** 07/28/03 12:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
QA	S307308-01	Water	07/10/03 00:00	07/10/03 19:32
MW-1	S307308-02	Water	07/10/03 10:20	07/10/03 19:32
MW-3	S307308-03	Water	07/10/03 11:30	07/10/03 19:32
MW-4	S307308-04	Water	07/10/03 10:50	07/10/03 19:32
MW-5	S307308-05	Water	07/10/03 08:50	07/10/03 19:32
MW-6	S307308-06	Water	07/10/03 09:35	07/10/03 19:32

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Gettler-Ryan - Dublin	Project: TOSCO 3538, Oakland, CA	S307308
6747 Sierra Court, Ste. J	Project Number: N/A	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	07/28/03 12:29

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
QA (S307308-01) Water Sampled: 07/10/03 00:00 Received: 07/10/03 19:32									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070325	07/24/03	07/24/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95 %*	*60-140*		"	"	"	"	
MW-1 (S307308-02) Water Sampled: 07/10/03 10:20 Received: 07/10/03 19:32									**HT-RS**
Purgeable Hydrocarbons	ND	50	ug/l	1	3070289	07/25/03	07/25/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82 %*	*60-140*		"	"	"	"	
MW-3 (S307308-03) Water Sampled: 07/10/03 11:30 Received: 07/10/03 19:32									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070325	07/24/03	07/24/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**23**	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*60-140*		"	"	"	"	

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Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 3538, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307308 **Reported:** 07/28/03 12:29

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (S307308-04) Water Sampled: 07/10/03 10:50 Received: 07/10/03 19:32									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070325	07/24/03	07/24/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97 %*	*60-140*		"	"	"	"	
MW-5 (S307308-05) Water Sampled: 07/10/03 08:50 Received: 07/10/03 19:32									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070325	07/24/03	07/24/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*60-140*		"	"	"	"	
MW-6 (S307308-06) Water Sampled: 07/10/03 09:35 Received: 07/10/03 19:32									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070325	07/24/03	07/24/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*60-140*		"	"	"	"	

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Gettler-Ryan - Dublin	Project: TOSCO 3538, Oakland, CA	S307308
6747 Sierra Court, Ste. J	Project Number: N/A	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	07/28/03 12:29

Volatile Organic Compounds 8010B list by EPA Method 8260B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307308-02) Water Sampled: 07/10/03 10:20 Received: 07/10/03 19:32									
Freon 113	**7.7**	1.0	ug/l	1	3070259	07/24/03	07/24/03	EPA 8260B	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
[illegible]romochloromethane	ND	0.50	"	"	"	"	"	"	
[illegible]noethane (EDB)	ND	0.50	"	"	"	"	"	"	
[illegible]orobenzene	ND	0.50	"	"	"	"	"	"	
[illegible]lorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	**0.89**	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*86 %*	*70-130*		"	"	"	"	
Surrogate: Toluene-d8		*98 %*	*70-130*		"	"	"	"	
Surrogate: 4-BFB		*99 %*	*70-130*		"	"	"	"	

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Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 3538, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307308 **Reported:** 07/28/03 12:29

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070289 - EPA 5030B (P/T)										
Blank (3070289-BLK1)				Prepared & Analyzed: 07/23/03						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	*8.08*		"	*10.0*		*81*	*60-140*			
Blank (3070289-BLK2)				Prepared & Analyzed: 07/24/03						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	*8.09*		"	*10.0*		*81*	*60-140*			
Blank (3070289-BLK3)				Prepared & Analyzed: 07/25/03						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	*8.49*		"	*10.0*		*85*	*60-140*			
Laboratory Control Sample (3070289-BS1)				Prepared & Analyzed: 07/23/03						
Benzene	9.44	0.50	ug/l	10.0		94	70-130			
Toluene	9.52	0.50	"	10.0		95	70-130			
Ethylbenzene	9.29	0.50	"	10.0		93	70-130			
Xylenes (total)	27.1	0.50	"	30.0		90	70-130			
Methyl tert-butyl ether	10.8	2.0	"	10.0		108	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.45*		"	*10.0*		*84*	*60-140*			

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Gettler-Ryan - Dublin	Project: TOSCO 3538, Oakland, CA	S307308
6747 Sierra Court, Ste. J	Project Number: N/A	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	07/28/03 12:29

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070289 - EPA 5030B (P/T)										
Laboratory Control Sample (3070289-BS2)				Prepared & Analyzed: 07/24/03						
Benzene	8.49	0.50	ug/l	10.0		85	70-130			
Toluene	8.79	0.50	"	10.0		88	70-130			
Ethylbenzene	8.53	0.50	"	10.0		85	70-130			
Xylenes (total)	25.2	0.50	"	30.0		84	70-130			
Methyl tert-butyl ether	9.87	2.0	"	10.0		99	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.45*		"	*10.0*		*84*	*60-140*			
Laboratory Control Sample (3070289-BS3)				Prepared & Analyzed: 07/25/03						
Benzene	9.57	0.50	ug/l	10.0		96	70-130			
Toluene	9.57	0.50	"	10.0		96	70-130			
Ethylbenzene	9.30	0.50	"	10.0		93	70-130			
Xylenes (total)	27.2	0.50	"	30.0		91	70-130			
Methyl tert-butyl ether	10.2	2.0	"	10.0		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.53*		"	*10.0*		*95*	*60-140*			
Matrix Spike (3070289-MS1)	**Source: S307303-05**			Prepared: 07/24/03 Analyzed: 07/25/03						
Benzene	9.24	0.50	ug/l	10.0	ND	92	60-140			
Toluene	9.43	0.50	"	10.0	ND	94	60-140			
Ethylbenzene	9.10	0.50	"	10.0	ND	91	60-140			
Xylenes (total)	26.5	0.50	"	30.0	ND	88	60-140			
Methyl tert-butyl ether	11.7	2.0	"	10.0	ND	117	60-140			
Surrogate: a,a,a-Trifluorotoluene	*8.48*		"	*10.0*		*85*	*60-140*			
Matrix Spike Dup (3070289-MSD1)	**Source: S307303-05**			Prepared: 07/24/03 Analyzed: 07/25/03						
Benzene	9.59	0.50	ug/l	10.0	ND	96	60-140	4	25	
Toluene	9.51	0.50	"	10.0	ND	95	60-140	0.8	25	
Ethylbenzene	9.13	0.50	"	10.0	ND	91	60-140	0.3	25	
Xylenes (total)	26.6	0.50	"	30.0	ND	89	60-140	0.4	25	
Methyl tert-butyl ether	12.7	2.0	"	10.0	ND	127	60-140	8	25	
Surrogate: a,a,a-Trifluorotoluene	*7.63*		"	*10.0*		*76*	*60-140*			

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Gettler-Ryan - Dublin	Project: TOSCO 3538, Oakland, CA	S307308
6747 Sierra Court, Ste. J	Project Number: N/A	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	07/28/03 12:29

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070325 - EPA 5030B (P/T)										
Blank (3070325-BLK1)				Prepared & Analyzed: 07/24/03						
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	*9.04*		"	*10.0*		*90*	*60-140*			
Laboratory Control Sample (3070325-BS1)				Prepared: 07/24/03 Analyzed: 07/25/03						
Benzene	9.00	0.50	ug/l	10.0		90	70-130			
Toluene	10.1	0.50	"	10.0		101	70-130			
Ethylbenzene	10.4	0.50	"	10.0		104	70-130			
Xylenes (total)	30.4	0.50	"	30.0		101	70-130			
Methyl tert-butyl ether	9.09	2.0	"	10.0		91	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.45*		"	*10.0*		*94*	*60-140*			

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Gettler-Ryan - Dublin	Project: TOSCO 3538, Oakland, CA	S307308
6747 Sierra Court, Ste. J	Project Number: N/A	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	07/28/03 12:29

Volatile Organic Compounds 8010B list by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070259 - EPA 5030B [P/T]										
Blank (3070259-BLK1)				Prepared & Analyzed: 07/24/03						
Freon 113	ND	1.0	ug/l							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Methylene chloride	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Surrogate: 1,2-DCA-d4	*22.6*		"	*25.0*		*90*	*70-130*			
Surrogate: Toluene-d8	*23.0*		"	*25.0*		*92*	*70-130*			
Surrogate: 4-BFB	*24.7*		"	*25.0*		*99*	*70-130*			

Sequoia Analytical

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Gettler-Ryan - Dublin	Project: TOSCO 3538, Oakland, CA	S307308
6747 Sierra Court, Ste. J	Project Number: N/A	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	07/28/03 12:29

Volatile Organic Compounds 8010B list by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070259 - EPA 5030B [P/T]										
Laboratory Control Sample (3070259-BS1)				Prepared & Analyzed: 07/24/03						
Chlorobenzene	25.1	0.50	ug/l	25.0		100	70-130			
1,1-Dichloroethene	18.9	0.50	"	25.0		76	70-130			
Trichloroethene	20.8	0.50	"	25.0		83	70-130			
Surrogate: 1,2-DCA-d4	*22.8*		"	*25.0*		*91*	*70-130*			
Surrogate: Toluene-d8	*23.0*		"	*25.0*		*92*	*70-130*			
Surrogate: 4-BFB	*24.3*		"	*25.0*		*97*	*70-130*			
Matrix Spike (3070259-MS1)	**Source: S307234-01**			Prepared & Analyzed: 07/24/03						
Chlorobenzene	26.1	0.50	ug/l	25.0	ND	104	60-140			
1,1-Dichloroethene	18.4	0.50	"	25.0	ND	74	60-140			
Trichloroethene	20.7	0.50	"	25.0	ND	83	60-140			
Surrogate: 1,2-DCA-d4	*20.6*		"	*25.0*		*82*	*70-130*			
Surrogate: Toluene-d8	*24.8*		"	*25.0*		*99*	*70-130*			
Surrogate: 4-BFB	*25.2*		"	*25.0*		*101*	*70-130*			
Matrix Spike Dup (3070259-MSD1)	**Source: S307234-01**			Prepared & Analyzed: 07/24/03						
Chlorobenzene	25.2	0.50	ug/l	25.0	ND	101	60-140	4	25	
1,1-Dichloroethene	16.8	0.50	"	25.0	ND	67	60-140	9	25	
Trichloroethene	19.2	0.50	"	25.0	ND	77	60-140	8	25	
Surrogate: 1,2-DCA-d4	*20.6*		"	*25.0*		*82*	*70-130*			
Surrogate: Toluene-d8	*24.9*		"	*25.0*		*100*	*70-130*			
Surrogate: 4-BFB	*25.8*		"	*25.0*		*103*	*70-130*			

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Gettler-Ryan - Dublin	Project: TOSCO 3538, Oakland, CA	S307308
6747 Sierra Court, Ste. J	Project Number: N/A	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	07/28/03 12:29

Notes and Definitions

HT-RS	This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. 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