GETTLER-RYAN INC.

TRANSMITTAL

July 21, 2003
G-R #180061

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 #5325
3220 Lakeshore Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	July 15, 2003	Groundwater Monitoring and Sampling Report Second Quarter - Event of June 18, 2003

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by ***August 4, 2003***, this report will be distributed to the following:

cc: Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Enclosure

CA & HI BOX:

009258

Store # 255325 Date: 7-21-03
Unit # 5325 Code: GWM Color ( )
Description: 2ND QTR 2003 MS RPT.

trans/5325-DBD

GETTLER-RYAN INC.

July 15, 2003
G-R Job #180061

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

RE: Second Quarter Event of June 18, 2003
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5325
3220 Lakeshore 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 any wells. Static water level data and groundwater elevations are summarized in Table 1. Field Measurements are summarized in Table 3. 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,

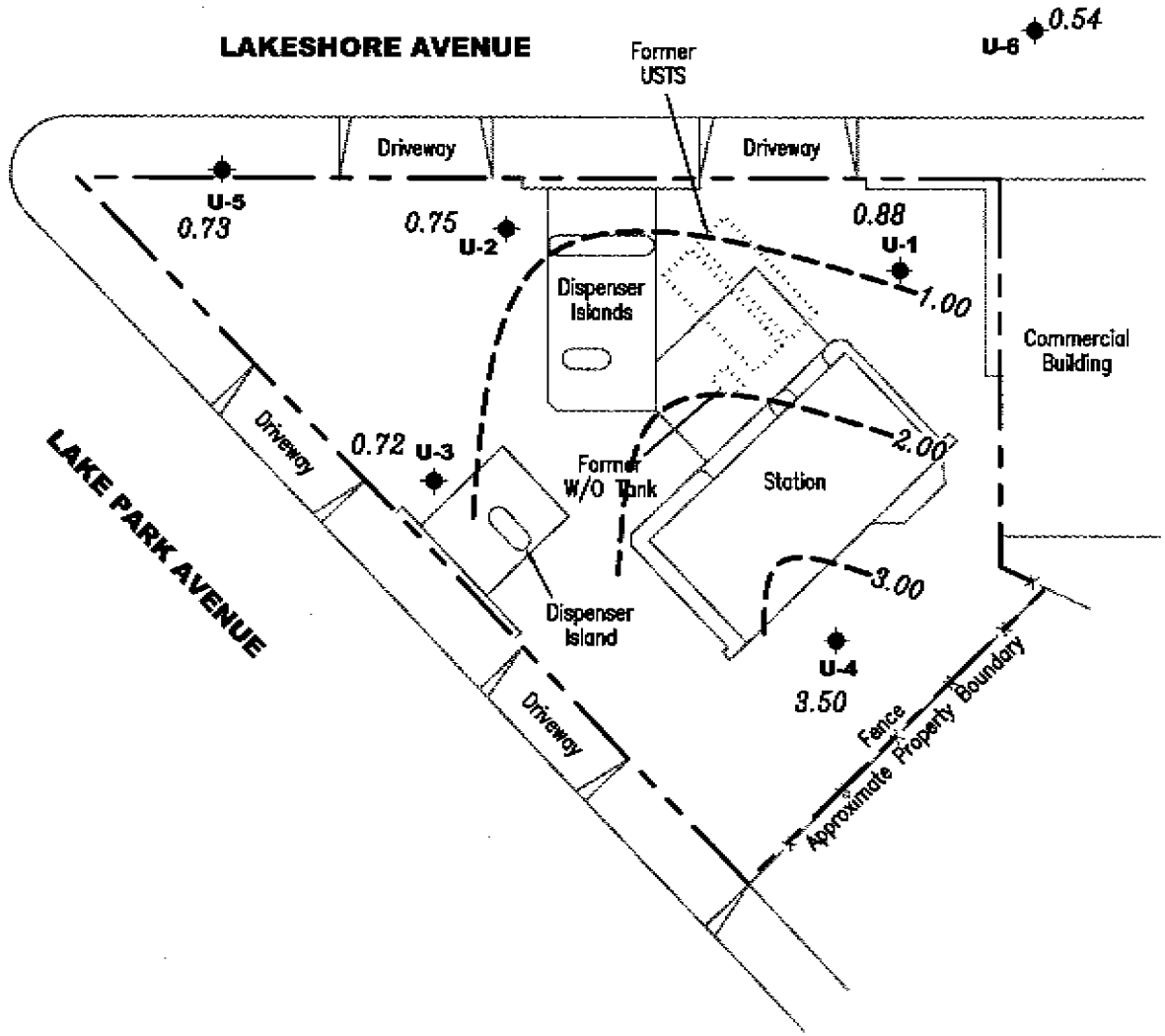
Deanna L. Harding
Project Coordinator

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 – Oxygenate Compounds
Table 3: Field Measurements and Groundwater Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

5325.qml



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level
- 99.99 — Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.02 to 0.03 Ft./Ft.

N

0 40

Scale in Feet

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

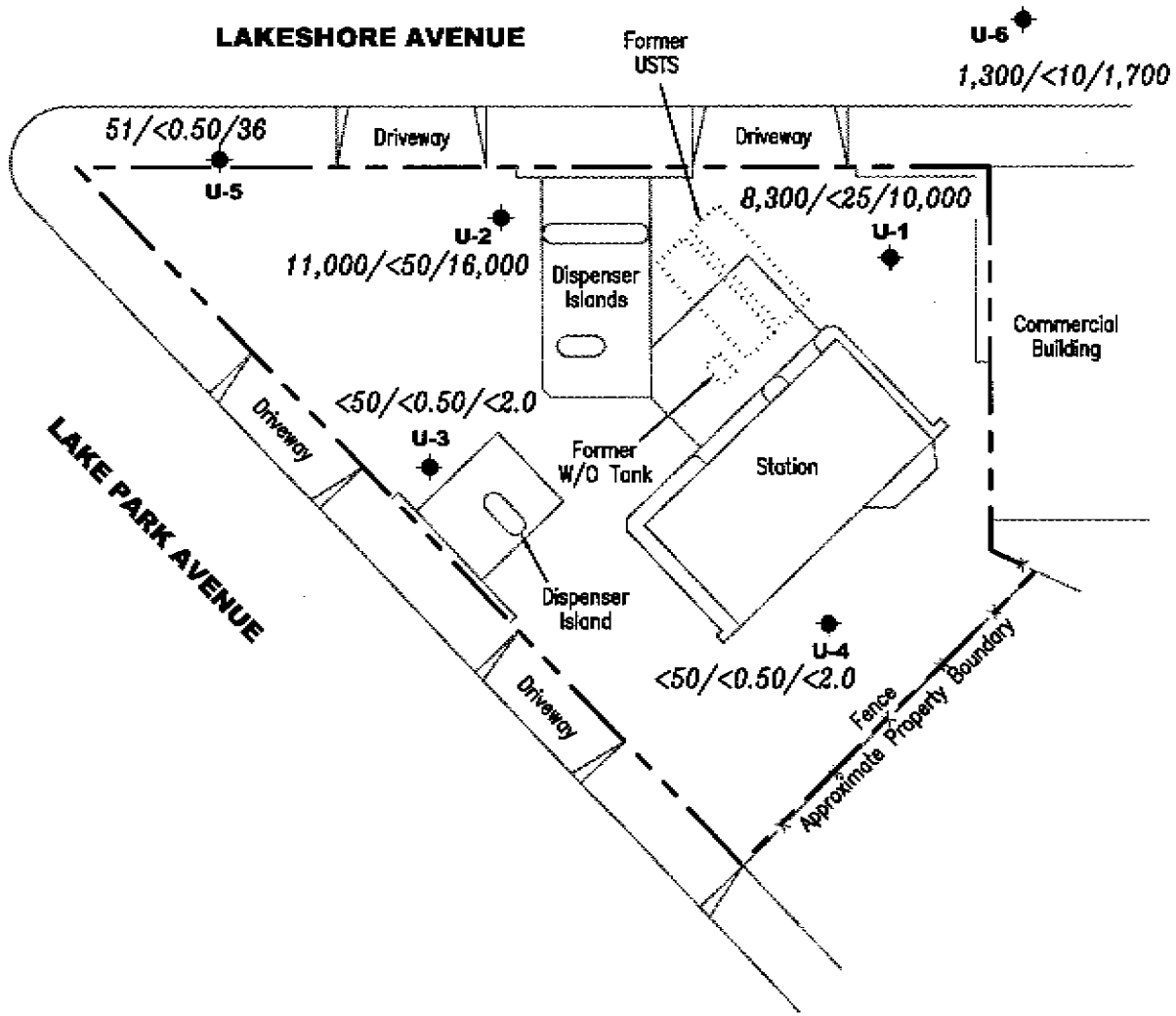
GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180061		June 18, 2003	

FILE NAME: P:\ENVIRO\CONOCOPHILIPS-TOSCO\5325\Q03-5325.DWG | Layout Tab: Plot2



EXPLANATION

- ◆ Groundwater monitoring well
- *A/B/C* Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb
- ***NOTE:*** Analyses by EPA Method 8260

N

0 40

Scale in Feet

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 #5325
3220 Lakeshore Avenue
Oakland, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180061		June 18, 2003	

FILE NAME: P:\ENVIRO\CONOCOPHILLPS-TOSCO\5325\Q03-5325.DWG ; Layout Tab: Con2

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1	08/10/90	--	5.0-20.0	--	--	690	38	75	8.6	130	--
	01/07/91	--		--	--	250	22	16	4.2	17	--
	04/01/91	--		--	--	160	13	8.6	1.0	15	--
	07/03/91	--		--	--	140	21	4.3	0.36	17	--
	10/09/91	--		--	--	ND	ND	ND	ND	ND	--
	02/12/92	--		--	--	250	ND	ND	ND	ND	--
	05/05/92	--		--	--	230	1.2	ND	ND	ND	--
	06/11/92	--		--	--	1,000	80	1.4	6.7	41	--
	08/20/92	--		--	--	400[1]	1.0	ND	ND	0.6	--
	02/22/93	--		--	--	34,000	1,400	5,500	910	7,300	--
	05/07/93	--		--	--	8,700	600	240	650	3,300	--
	08/08/93	--		--	--	4,900[2]	79	ND	832	270	--
5.32	11/16/93	8.61		-3.29	0.00	690[3]	ND	ND	ND	ND	--
	02/16/94	8.54		-3.22	0.00	6,800[4]	ND	ND	ND	ND	--
8.46	06/22/94	8.39		0.07	0.00	200	ND	ND	5.9	21	--
	09/22/94	8.66		-0.20	0.00	6,100[3]	ND	ND	ND	ND	--
	12/24/94	8.04		0.42	0.00	50,000	2,500	9,700	2,400	17,000	--
	03/25/95	7.72		1.02**	0.37	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	06/21/95	9.30		-0.69**	0.20	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/19/95	9.29		-0.53**	0.40	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	12/19/95	8.98		-0.50**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/18/96	8.25		0.21	0.00	27,000	ND	2,300	1,400	11,000	4,900
	06/27/96	7.92		0.54	<0.01	120,000	540	4,300	2,600	26,000	ND
	09/26/96	9.10		-0.62**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	12/09/96	6.88		1.60**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/14/97	9.02		-0.15**	0.55	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	06/30/97	8.41		0.07**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/19/97	8.56		-0.08**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	12/12/97	8.58		-0.11**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/03/98[17]	8.23		0.26**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	06/15/98[17]	8.37		0.09	Sheen	52,000	ND[7]	900	1,800	13,000	ND[7]
	09/30/98[17]	8.94		-0.48	Sheen	1,000,000[8]	ND[7]	2,600	13,000	83,000	4,800
	12/28/98[17]	8.57		-0.11	<0.01	1,100,000[9]	ND[7]	1,600	8,600	71,000	5,700

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1	03/22/99[17]	8.18	5.0-20.0	0.28	Sheen	130,000	470	1,100	2,000	28,000	5,700
(cont)	06/09/99	9.37		-0.91	0.00	40,000	230	640	590	13,000	3,500/2,100[10]
	09/08/99[17]	9.53		-1.07	0.00	55,000[11]	217	202	745	14,300	6,890/6,690[10]
	12/07/99[17]	9.67		-1.21	0.00	41,200[13]	89.3	ND[7]	385	6,930	15,800/14,700[12]
	03/13/00[17]	8.44		0.02	0.00	48,000[11]	490	610	2,400	10,000	22,000/23,000[10]
	06/21/00[17]	9.45		-0.99	0.00	37,000[11]	200	ND[7]	1,200	7,200	15,000/20,000[10]
	09/27/00[17]	9.29		-0.83	0.00	15,000[14]	92	ND[7]	540	2,800	74,000/83,000[15]
	12/12/00[17]	9.37		-0.91	0.00	50,000[16]	ND[7]	ND[7]	250	1,900	12,000/15,000[12]
	03/07/01[17]	8.45		0.01	0.00	6,220[13]	29.8	10.4	96.3	638	11,200/11,800[10]
	06/06/01[17]	9.29		-0.83	0.00	5,200[13]	17	ND[7]	69	420	6,500/8,700[12]
	09/24/01[17]	9.39		-0.93	0.00	4,300[18]	36	<25	65	590	4,400/4,400[10]
	12/10/01[20]	9.17		-0.71	0.00	11,000[18]	220	<100	380	1,500	5,100/5,100[10]
	03/11/02[20]	9.44		-0.98	0.00	5,500[13]	28	<20	360	690	6,400/6,300[10]
	06/04/02[20]	8.32		0.14	0.00	4,600[18]	31	<10	240	180	6,500
	09/03/02[20]	9.36		-0.90	0.00	2,300[21]	<12	<12	<12	68	3,500/4,700[10]
	12/03/02[20,22]	8.18		0.28	0.00	<5,000	<50	<50	<50	<100	4,700
	03/04/03[22]	8.29		0.17	0.00	8,900	26	<25	400	130	5,500
	06/18/03[22]	**7.58**		**0.88**	**0.00**	**8,300**	**<25**	**<25**	**<25**	**<50**	**10,000**
U-2	08/10/90	--	5.0-20.0	--	--	780	27	46	15	130	--
	01/07/91	--		--	--	1,900	67	5.8	58	69	--
	04/01/91	--		--	--	1,700	250	89	34	190	--
	07/03/91	--		--	--	2,100	150	25	3.1	290	--
	10/09/91	--		--	--	230	7.1	ND	ND	11	--
	02/12/92	--		--	--	410	1.9	ND	0.36	0.4	--
	05/05/92	--		--	--	1,600	120	52	6.2	290	--
	06/11/92	--		--	--	620	17	2.1	ND	37	--
	08/20/92	--		--	--	700	28	6.5	1.3	4.6	--
	02/22/93	--		--	--	3,400	2,400	2,100	1,200	5,800	--

Table 1

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Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-2	05/07/93	--	5.0-20.0	--	--	17,000	1,800	660	1,700	4,000	--
(cont)	08/08/93	--		--	--	5,600[2]	420	ND	410	670	--
4.53	11/16/93	8.17		-3.64	0.00	510[3]	ND	ND	ND	ND	--
	02/16/94	7.73		-3.20	0.00	980[4]	49	13	2.7	40	--
7.62	06/22/94	7.60		0.02	0.00	31,000	2,200	62	1,500	3,500	--
	09/22/94	7.93		-0.31	0.00	8,500[3]	29	ND	ND	ND	--
	12/24/94	7.27		0.35	0.00	32,000	1,500	890	1,300	5,000	--
	03/25/95	7.01		0.61	0.00	170,000	1,900	21,000	4,800	33,000	--
	06/21/95	6.98		0.64	0.00	16,000	2,100	ND	1,800	1,700	--
	09/19/95	7.70		-0.08	0.00	3,000	610	ND	78	240	--[5]
	12/19/95	7.30		0.32	0.00	1,600	140	55	52	270	--[6]
	03/18/96	6.45		1.17	0.00	12,000	2,200	ND	1,200	2,200	22,000
	06/27/96	7.41		0.21	0.00	28,000	3,400	ND	2,800	3,100	3,000
	09/26/96	7.90		-0.28	0.00	5,900	750	ND	ND	ND	18,000
	12/09/96	6.76		0.86	0.00	13,000	5,100	290	980	370	2,700
	03/14/97	7.12		0.52**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	06/30/97	6.19		1.43	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/19/97	7.31		0.31	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	12/12/97	6.75		0.88**	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/03/98	6.36		1.26	Sheen	80,000	3,000	1,100	820	16,000	16,000
	06/15/98	6.51		1.11	Sheen	48,000	1,800	330	470	7,900	20,000
	09/30/98	7.17		0.45	Sheen	60,000	1,300	ND[7]	500	9,700	19,000
	12/28/98	7.06		0.56	0.00	63,000	590	160	320	5,600	16,000
	03/22/99	6.82		0.80	0.00	28,000	1,100	ND[7]	360	2,900	25,000
	06/09/99	7.51		0.11	0.00	21,000	110	190	310	2,600	7,900/7,800[10]
	09/08/99	8.16		-0.54	0.00	23,300[11]	477	138	286	4,110	16,400/15,300[10]
	12/07/99	8.31		-0.69	0.00	4,840[13]	17.2	ND[7]	ND[7]	157	14,900/15,600[12]
	03/13/00	6.69		0.93	0.00	11,000[11]	380	160	ND[7]	2,100	22,000/26,000[10]
	06/21/00	7.67		-0.05	0.00	9,100[11]	22	ND[7]	ND[7]	800	16,000/22,000[10]
	09/27/00	7.44		0.18	0.00	2,900[11]	43	ND[7]	ND[7]	39	20,000/26,000[15]
	12/12/00	7.51		0.11	0.00	3,600[11]	17	ND[7]	ND[7]	87	8,000/7,800[12]
	03/07/01	7.15		0.47	0.00	1,670[13]	51.0	ND[7]	7.20	19.5	5,930/7,900[10]
	06/06/01	7.57		0.05	0.00	1,100[11]	14	ND[7]	9.3	35	9,200/10,000[12]

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325

3220 Lakeshore Avenue

Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-2	09/24/01	7.63	5.0-20.0	-0.01	0.00	1,000[18]	25	<2.5	12	100	9,800/11,000[10]
(cont)	12/10/01	6.78		0.84	0.00	83	14	0.55	3.4	6.8	2,500/2,500[10]
	03/11/02	7.12		0.50	0.00	<1,000	28	<10	40	31	11,000/11,000[10]
	06/04/02	7.18		0.44	0.00	7,700[18]	32	<25	33	48	14,000
	09/03/02	7.58		0.04	0.00	5,200[21]	<25	<25	<25	<25	11,000/15,000[10]
	12/03/02[22]	7.68		-0.06	0.00	<5,000	<50	<50	<50	<100	3,200
	03/04/03[22]	7.77		-0.15	0.00	8,100[21]	<50	<50	<50	<100	7,800
	06/18/03[22]	**6.87**		**0.75**	**0.00**	**11,000[21]**	**<50**	**<50**	**<50**	**<100**	**16,000**
U-3	08/10/90	--	5.0-20.0	--	--	ND	ND	ND	ND	ND	--
	01/07/91	--		--	--	ND	ND	ND	ND	1.8	--
	04/01/91	--		--	--	ND	1.0	2.9	0.53	5.4	--
	07/03/91	--		--	--	ND	ND	ND	ND	ND	--
	10/09/91	--		--	--	ND	ND	ND	ND	ND	--
	02/12/92	--		--	--	ND	ND	ND	ND	ND	--
	05/05/92	--		--	--	ND	ND	ND	ND	ND	--
	06/11/92	--		--	--	ND	ND	ND	ND	ND	--
	08/20/92	--		--	--	ND	ND	ND	ND	ND	--
	02/22/93	--		--	--	ND	ND	ND	ND	ND	--
	05/07/93	--		--	--	ND	ND	ND	ND	ND	--
	08/08/93	--		--	--	210	5.0	9.7	0.7	4.1	--
7.86	11/16/93	11.82		-3.96	0.00	ND	ND	ND	ND	ND	--
	02/16/94	11.62		-3.76	0.00	ND	ND	ND	ND	ND	--
10.98	06/22/94	11.64		-0.66	0.00	ND	ND	ND	ND	ND	--
	09/22/94	11.76		-0.78	0.00	ND	ND	ND	ND	ND	--
	12/24/94	11.28		-0.30	0.00	ND	ND	ND	ND	ND	--
	03/25/95	10.96		0.02	0.00	ND	ND	ND	ND	ND	--
	06/21/95	11.37		-0.39	0.00	ND	ND	ND	ND	ND	--
	09/19/95	11.55		-0.57	0.00	ND	ND	ND	ND	ND	--[5]
	12/19/95	11.45		-0.47	0.00	ND	ND	ND	ND	ND	--
	03/18/96	11.10		-0.12	0.00	ND	ND	ND	ND	ND	--
	06/27/96	11.16		-0.18	0.00	440	49	50	51	140	50

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-3	09/26/96	11.55	5.0-20.0	-0.57	0.00	ND	ND	ND	ND	ND	ND
(cont)	12/09/96	10.12		0.86	0.00	ND	ND	ND	ND	ND	29
	03/14/97	10.87		0.11	0.00	ND	ND	ND	ND	ND	ND
	06/30/97	11.08		-0.10	0.00	ND	ND	ND	ND	ND	ND
	09/19/97	11.05		-0.07	0.00	ND	ND	ND	ND	ND	ND
	12/12/97	10.58		0.40	0.00	ND	ND	ND	ND	ND	ND
	03/03/98	9.84		1.14	0.00	ND	ND	ND	ND	ND	ND
	06/15/98	10.56		0.42	0.00	ND	ND	ND	ND	ND	ND
	09/30/98	11.12		-0.14	0.00	ND	ND	ND	ND	ND	ND
	12/28/98	10.96		0.02	0.00	ND	ND	ND	ND	ND	ND
	03/22/99	9.46		1.52	0.00	ND	ND	ND	ND	ND	ND
	06/09/99	11.01		-0.03	0.00	ND	ND	ND	ND	ND	ND
	09/08/99	11.31		-0.33	0.00	ND	ND	ND	ND	ND	ND
	12/07/99	11.26		-0.28	0.00	ND	ND	ND	ND	ND	ND
	03/13/00	8.28		2.70	0.00	ND	ND	ND	ND	ND	ND
	06/21/00	11.12		-0.14	0.00	ND	ND	ND	ND	ND	ND
	09/27/00	11.07		-0.09	0.00	ND	ND	ND	ND	ND	ND
	12/12/00	10.94		0.04	0.00	ND	ND	ND	ND	ND	ND
	03/07/01	8.32		2.66	0.00	ND	ND	ND	ND	ND	ND
	06/06/01	10.94		0.04	0.00	ND	ND	ND	ND	ND	ND
	09/24/01	11.03		-0.05	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/10/01	8.16		2.82	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/11/02	7.82		3.16	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	06/04/02	10.58		0.40	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/03/02	10.94		0.04	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/03/02[22]	10.66		0.32	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	03/04/03[22]	10.76		0.22	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	06/18/03[22]	**10.26**		**0.72**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-4											
11.15	06/22/94	10.16	5.0-20.0	0.99	0.00	ND	ND	ND	ND	ND	--
	09/22/94	10.79		0.36	0.00	ND	0.78	1.3	ND	1.4	--
	12/24/94	9.81		1.34	0.00	ND	ND	ND	ND	ND	--
	03/25/95	9.51		1.64	0.00	ND	ND	ND	ND	ND	--
	06/21/95	9.54		1.61	0.00	ND	ND	ND	ND	ND	--
	09/19/95	10.17		0.98	0.00	ND	ND	ND	ND	ND	--
	12/19/95	9.98		1.17	0.00	ND	ND	ND	ND	ND	--
	03/18/96	9.66		1.49	0.00	ND	ND	ND	ND	ND	--
	06/27/96	9.74		1.41	0.00	ND	ND	ND	ND	ND	ND
	09/26/96	10.14		1.01	0.00	ND	ND	ND	ND	ND	ND
	12/09/96	8.67		2.48	0.00	ND	ND	ND	ND	ND	33
	03/14/97	9.35		1.80	0.00	ND	ND	ND	ND	ND	ND
	06/30/97	9.89		1.26	0.00	ND	ND	ND	ND	ND	ND
	09/19/97	9.96		1.19	0.00	ND	ND	ND	ND	ND	ND
	12/12/97	8.56		2.59	0.00	ND	ND	ND	ND	ND	ND
	03/03/98	7.85		3.30	0.00	ND	ND	ND	ND	ND	ND
	06/15/98	9.08		2.07	0.00	ND	ND	ND	ND	ND	ND
	09/30/98	9.75		1.40	0.00	ND	ND	ND	ND	ND	ND
	12/28/98	9.59		1.56	0.00	ND	ND	ND	ND	ND	ND
	03/22/99	8.34		2.81	0.00	ND	ND	ND	ND	ND	ND
	06/09/99	9.39		1.76	0.00	ND	ND	ND	ND	ND	ND
	09/08/99	9.90		1.25	0.00	ND	ND	ND	ND	ND	ND
	12/07/99	10.05		1.10	0.00	ND	ND	ND	ND	ND	ND
	03/13/00	7.24		3.91	0.00	ND	ND	ND	ND	ND	ND
	06/21/00	9.48		1.67	0.00	ND	ND	ND	ND	ND	ND
	09/27/00	9.42		1.73	0.00	ND	ND	ND	ND	ND	ND
	12/12/00	9.50		1.65	0.00	ND	ND	ND	ND	ND	ND
	03/07/01	6.88		4.27	0.00	ND	ND	ND	ND	ND	ND
	06/06/01	9.18		1.97	0.00	ND	ND	ND	ND	ND	ND
	09/24/01	9.21		1.94	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/10/01	7.32		3.83	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/11/02	6.92		4.23	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-4	06/04/02	7.58	5.0-20.0	3.57	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
(cont)	09/03/02	9.17		1.98	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/03/02[22]	9.20		1.95	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	03/04/03[22]	9.32		1.83	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	06/18/03[22]	**7.65**		**3.50**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**
U-5											
6.98	06/22/94	6.83	5.0-20.0	0.15	0.00	210	7.1	13	4.5	26	--
	09/22/94	6.90		0.08	0.00	170	8.4	10	8.5	18	--
	12/24/94	6.43		0.55	0.00	8,700	560	70	670	430	--
	03/25/95	6.35		0.63	0.00	44,000	390	960	1,500	7,600	--
	06/21/95	7.11		-0.13	0.00	400	2.3	ND	9.1	3.5	--
	09/19/95	6.99		-0.01	0.00	850	14	7.1	13	66	--[5]
	12/19/95	7.17		-0.19	0.00	ND	ND	ND	ND	ND	--
	03/18/96	6.65		0.33	0.00	100	0.67	0.5	0.51	5.4	--
	06/27/96	6.49		0.49	0.00	16,000	280	150	1,400	4,600	530
	09/26/96	7.13		-0.15	0.00	ND	ND	0.57	ND	0.96	ND
	12/09/96	5.90		1.08	0.00	1,300	29	46	ND	140	97
	03/14/97	6.99		-0.01	0.00	ND	ND	ND	ND	ND	14
	06/30/97	7.08		-0.10	0.00	4,200	74	51	180	980	270
	09/19/97	6.78		0.20	0.00	6,300	160	13	370	1000	480
	12/12/97	6.94		0.04	0.00	60	1.3	ND	1.6	2.1	47
	03/03/98	6.50		0.48	0.00	1,700	29	ND[7]	150	190	330
	06/15/98	6.85		0.13	0.00	1,500	32	ND[7]	91	83	330
	09/30/98	7.31		-0.33	0.00	1,700	44	ND[7]	39	150	60
	12/28/98	7.25		-0.27	0.00	1,400	59	ND[7]	13	27	150
	03/22/99	6.86		0.12	0.00	780	8.9	ND	0.76	4.5	350
	06/09/99	7.28		-0.30	0.00	1,000	ND[7]	ND[7]	10	35	280/350[10]
	09/08/99	7.52		-0.54	0.00	2,620[11]	26.2	ND[7]	32.2	157	280/239[12]
	12/07/99	7.67		-0.69	0.00	949[11]	9.26	ND[7]	11.2	22.7	235/301[12]
	03/13/00	6.73		0.25	0.00	880[14]	12	1.0	5.6	8.7	46/37[10]
	06/21/00	7.39		-0.41	0.00	700[11]	4.0	ND	0.99	4.0	120/140[10]

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-5	09/27/00	7.45	5.0-20.0	-0.47	0.00	400[11]	1.9	ND	ND	1.5	160/250[15]
(cont)	12/12/00	7.68		-0.70	0.00	770[11]	3.2	ND[7]	ND[7]	ND[7]	27/13[12]
	03/07/01	6.83		0.15	0.00	623[13]	5.15	ND	ND	0.669	35.7/43.4[10]
	06/06/01	7.42		-0.44	0.00	110[13]	ND	ND	ND	ND	ND
	09/24/01	7.50		-0.52	0.00	270[19]	<0.50	<0.50	<0.50	<0.50	40/42[10]
	12/10/01	6.65		0.33	0.00	420[18]	13	0.60	0.66	<0.50	<2.5
	03/11/02	7.00		-0.02	0.00	260[13]	<0.50	<0.50	<0.50	<0.50	42/47[10]
	06/04/02	6.71		0.27	0.00	170[19]	<0.50	0.77	0.87	0.69	29
	09/03/02	7.47		-0.49	0.00	<50	<0.50	<0.50	<0.50	<0.50	37/53[10]
	12/03/02[22]	6.64		0.34	0.00	320	<0.50	<0.50	5.7	<1.0	11
	03/04/03[22]	6.75		0.23	0.00	100[21]	<0.50	<0.50	<0.50	<1.0	44
	06/18/03[22]	**6.25**		**0.73**	**0.00**	**51[21]**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**36**
U-6											
7.14	06/22/94	7.14	5.0-24.0	0.00	0.00	ND	ND	ND	ND	ND	--
	09/22/94	7.34		-0.20	0.00	130	1.3	0.8	ND	0.73	--
	12/24/94	6.67		0.47	0.00	6,900	500	59	600	380	--
	03/25/95	6.29		0.85	0.00	47,000	450	1,300	1,700	8,200	--
	06/21/95	7.60		-0.46	0.00	ND	ND	ND	ND	ND	--
	09/19/95	7.70		-0.56	0.00	ND	ND	ND	ND	ND	--[5]
	12/19/95	7.75		-0.61	0.00	210	2.5	1.0	2.9	17	--
	03/18/96	6.86		0.28	0.00	ND	ND	ND	ND	ND	--
	06/27/96	6.52		0.62	0.00	ND	ND	ND	ND	ND	510
	09/26/96	7.62		-0.48	0.00	ND	ND	ND	ND	ND	1,400
	12/09/96	5.88		1.26	0.00	1,200	29	48	6.4	140	58
	03/14/97	7.30		-0.16	0.00	ND	ND	ND	ND	ND	1,500
	06/30/97	7.35		-0.21	0.00	ND	ND	ND	ND	ND	990
	09/19/97	7.25		-0.11	0.00	ND	ND	ND	ND	ND	1,400
	12/12/97	7.29		-0.15	0.00	ND	ND	ND	ND	ND	680
	03/03/98	7.00		0.14	0.00	ND	ND	ND	ND	ND	1,600
	06/15/98	7.18		-0.04	0.00	ND[7]	ND[7]	ND[7]	ND[7]	ND[7]	1,000
	09/30/98	7.90		-0.76	0.00	ND	ND	ND	ND	ND	1,200

Table 1

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Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-6	12/28/98	7.79	5.0-24.0	-0.65	0.00	ND[7]	ND[7]	ND[7]	ND[7]	ND[7]	730
(cont)	03/22/99	7.47		-0.33	0.00	ND	ND	ND	ND	ND	1,800
	06/09/99	7.73		-0.59	0.00	ND[7]	ND[7]	ND[7]	ND[7]	ND[7]	1,000/850[10]
	09/08/99	7.95		-0.81	0.00	ND	ND	ND	ND	ND	851/1,040[10]
	12/07/99	8.10		-0.96	0.00	ND	ND	ND	ND	ND	1,140/1,150[12]
	03/13/00	6.95		0.19	0.00	ND	ND	ND	ND	ND	560/670[10]
	06/21/00	7.84		-0.70	0.00	ND	ND	ND	ND	ND	400/590[10]
	09/27/00	7.68		-0.54	0.00	ND	ND	ND	ND	ND	2,500/2,800[15]
	12/12/00	7.74		-0.60	0.00	ND	ND	ND	ND	ND	590/580[12]
	03/0701	7.27		-0.13	0.00	ND	ND	ND	ND	ND	310/321[12]
	06/06/01	7.80		-0.66	0.00	ND	ND	ND	ND	ND	250/330[12]
	09/24/01	7.82		-0.68	0.00	<50	<0.50	<0.50	<0.50	<0.50	530/660[10]
	12/10/01	7.15		-0.01	0.00	<50	<0.50	<0.50	<0.50	<0.50	220/220[10]
	03/11/02	7.32		-0.18	0.00	<50	<0.50	<0.50	<0.50	<0.50	720/760[10]
	06/04/02	7.18		-0.04	0.00	250[19]	<1.0	<1.0	<1.0	<1.0	470
	09/03/02	7.72		-0.58	0.00	420[21]	<2.5	<2.5	<2.5	4.7	860/1,200[10]
	12/03/02[22]	6.92		0.22	0.00	<500	<5.0	<5.0	<5.0	<10	870
	03/04/03[22]	7.01		0.13	0.00	2,300[21]	<10	<10	<10	<20	2,700
	06/18/03[22]	**6.60**		**0.54**	**0.00**	**1,300[21]**	**<10**	**<10**	**<10**	**<20**	**1,700**
Trip Blank											
TB-LB	03/03/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/15/98	--		--	--	ND	ND	ND	ND	ND	ND
	09/30/98	--		--	--	ND	ND	1.7	ND	2.2	ND
	12/28/98	--		--	--	ND	ND	0.71	ND	0.72	9.5
	03/22/99	--		--	--	ND	ND	ND	ND	ND	ND
	06/09/99	--		--	--	ND	ND	ND	ND	ND	ND
	09/08/99	--		--	--	ND	ND	ND	ND	ND	ND
	12/07/99	--		--	--	ND	ND	0.762	ND	ND	ND
	03/13/00	--		--	--	ND	ND	ND	ND	ND	ND
	06/21/00	--		--	--	ND	ND	ND	ND	ND	ND
	09/27/00	--		--	--	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (ft.)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TB-LB	12/12/00	--	--	--	--	ND	ND	ND	ND	ND	ND
(cont)	03/07/01	--		--	--	ND	ND	ND	ND	ND	ND
	06/06/01	--		--	--	ND	ND	ND	ND	ND	ND
	09/24/01	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/10/01	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	03/11/02	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	06/04/02	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/03/02	--		--	--	<50	<0.50	0.83	<0.50	0.50	<2.5
	12/03/02[22]	--		--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	03/04/03[22]	--		--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	06/18/03[22]	--		--	--	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 3, 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

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 surveyed relative to City of Oakland Benchmark, at the northeasterly corner of Weller and Chency Avenue (Elevation = 9.055 feet, city datum; add 3.00' to U.S.G.S. datum). Prior to November 16, 1993, the DTW measurements were taken from the well cover.

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

1 The positive result for gasoline does not appear to have a typical gasoline pattern.
2 The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
3 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline
4 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
5 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
6 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
7 Detection limit raised. Refer to analytical reports.
8 Laboratory report indicates unidentified hydrocarbons C6-C12.
9 Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
10 MTBE by EPA Method 8260.
11 Laboratory report indicates gasoline C6-C12.
12 MTBE by EPA Method 8260 analyzed past the recommended holding time.
13 Laboratory report indicates weathered gasoline C6-C12.
14 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.
15 Laboratory report indicates sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
16 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons >C10.
17 Skimmer present in well.
18 Laboratory report indicates gasoline C6-C10.
19 Laboratory report indicates unidentified hydrocarbons C6-C10.
20 Skimmer not present in well.
21 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
22 TPH-G, BTEX and MTBE by EPA Methoed 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
U-1	09/27/00[1]	--	ND[2]	83,000	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]
	12/12/00	--	--	15,000[3]	--	--	--	--	--
	03/07/01	ND[2]	ND[2]	11,800	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]
	06/06/01[3]	ND[2]	ND[2]	8,700	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]
	09/24/01	<400,000	<20,000	4,400	<1,000	<1,000	<1,000	<1,000	<1,000
	12/10/01	<8,000	<4,000	5,100	<100	<100	<100	<100	<100
	03/11/02	<25,000	<5,000	6,300	<100	<100	<100	<100	<100
	06/04/02[4]	--	--	--	--	--	--	--	--
	09/03/02	<50,000	<10,000	4,700	<200	<200	<200	<200	<200
	12/03/02	<50,000	<10,000	4,700	<200	<200	<200	<200	<200
	03/04/03	<25,000	<5,000	5,500	<100	<100	<100	<100	<100
	06/18/03	**<25,000**	**<5,000**	**10,000**	**<100**	**<100**	**<100**	**<100**	**<100**
U-2	09/27/00	--	--	26,000[1]	--	--	--	--	--
	12/12/00	--	--	7,800[3]	--	--	--	--	--
	03/07/01	ND[2]	ND[2]	7,900	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]
	06/06/01[3]	ND[2]	ND[2]	10,000	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]
	09/24/01	<400,000	<20,000	11,000	<1,000	<1,000	<1,000	<1,000	<1,000
	12/10/01	<4,000	<2,000	2,500	<50	<50	<50	<50	<50
	03/11/02	<50,000	<10,000	11,000	<200	<200	<200	<200	<200
	06/04/02[4]	--	--	--	--	--	--	--	--
	09/03/02	<250,000	<50,000	15,000	<1,000	<1,000	<1,000	<1,000	<1,000
	12/03/02	<50,000	<10,000	3,200	<200	<200	<200	<200	<200
	03/04/03	<50,000	<10,000	7,800	<200	<200	<200	<200	<200
	06/18/03	**<50,000**	**<10,000**	**16,000**	**<200**	**<200**	**<200**	**<200**	**<200**
U-3	12/03/02	--	--	<2.0	--	--	--	--	--
	03/04/03	--	--	<2.0	--	--	--	--	--
	06/18/03	**--**	**--**	**<2.0**	**--**	**--**	**--**	**--**	**--**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #5325

3220 Lakeshore Avenue

Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
U-4	12/03/02	--	--	<2.0	--	--	--	--	--
	03/04/03	--	--	<2.0	--	--	--	--	--
	06/18/03	--	--	**<2.0**	--	--	--	--	--
U-5	09/27/00	--	--	250[1]	--	--	--	--	--
	12/12/00	--	--	13[3]	--	--	--	--	--
	03/07/01	ND	ND	43.4	ND	ND	ND	ND	ND
	09/24/01	<4,000	<200	42	<10	<10	<10	<10	<10
	03/11/02	<500	<100	47	<2.0	<2.0	<2.0	<2.0	<2.0
	06/04/02[4]	--	--	--	--	--	--	--	--
	09/03/02	<500	<100	53	<2.0	<2.0	<2.0	<2.0	<2.0
	12/03/02	<500	<100	11	<2.0	<2.0	<2.0	<2.0	<2.0
	03/04/03	<500	<100	44	<2.0	<2.0	<2.0	<2.0	<2.0
	06/18/03	**<500**	**<100**	**36**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**
U-6	09/27/00	--	--	2,800[1]	--	--	--	--	--
	12/12/00	--	--	580[3]	--	--	--	--	--
	03/07/01[3]	ND[2]	ND[2]	321	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]
	06/06/01[3]	ND[2]	ND[2]	330	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]
	09/24/01	<40,000	<2,000	660	<100	<100	<100	<100	<100
	12/10/01	<400	<200	220	<5.0	<5.0	<5.0	<5.0	<5.0
	03/11/02	<2,000	<400	760	<8.0	<8.0	<8.0	<8.0	<8.0
	06/04/02[4]	--	--	--	--	--	--	--	--
	09/03/02	<10,000	<2,000	1,200	<40	<40	<40	<40	<40
	12/03/02	<5,000	<1,000	870	<20	<20	<20	<20	<20
	03/04/03	<10,000	<2,000	2,700	<40	<40	<40	<40	<40
	06/18/03	**<10,000**	**<2,000**	**1,700**	**<40**	**<40**	**<40**	**<40**	**<40**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #5325
3220 Lakeshore 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 = 1,2-Dibromoethane
(ppb) = Parts per billion
ND = Not Detected
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

[1] Laboratory report indicates sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

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

[3] Laboratory report indicates sample was analyzed outside the EPA recommended holding time.

[4] Due to Laboratory error, samples for oxygenate (8260) analyses was not performed.

Table 3

Field Measurements and Groundwater Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID	DATE	Ferrous Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	ORP (mV)	D.O. Before Purge (mg/L)	D.O. After Purge (mg/L)
U-1	06/15/98	39	ND	ND	382[2]	--	--
	09/30/98	17	ND	ND	366[2]	--	--
	12/28/98	4.3	6.3	28	298[2]	--	--
	03/22/99	4.9	ND	3.5	320[3]	--	--
	06/09/99	1.2	ND	ND	260[3]	--	--
	09/08/99	1.80	ND[1]	ND[1]	85[3]	--	--
	12/07/99	5.70	ND[1]	17.0	404[3]	1.36	--
	03/13/00	8.0	0.18	ND	[2]117/262[3]	--	--
	06/21/00	9.3	ND[1]	ND[1]	148[2]	1.53	--
	09/27/00	2.8	ND[1]	18.4	119[2]	1.63	--
	12/12/00	0.49	ND[1]	16.0	131[2]	1.48	--
	03/07/01	0.483	2.64	6.89	125[2]	1.91	--
	06/06/01	1.0[4]	ND	2.7	141[2]	1.77	--
	09/24/01	<0.10	0.45[5]	--	125[2]	1.64	--
	12/10/01	14	<0.50	2.2	141[2]	1.82	--
	03/11/02	15	<0.50	0.11	132[2]	2.21	--
	06/04/02	<0.50	<0.50	<0.10	117[2]	1.88	--
	09/03/02	<0.50	<0.50	<0.10	94[2]	1.62	--
	12/03/02	9.6	<1.0	<1.0	72[2]	1.71	--
	03/04/03	36	<1.0	<1.0	-125[2]	0.30	--
	06/18/03	**16**	**<1.0**	**<1.0**	**-48[2]**	**--**	**1.7**
U-2	03/03/98	25	ND	ND	369[2]	--	--
	06/15/98	42	ND	ND	341[2]	--	--
	09/30/98	25	ND	ND	354[2]	--	--
	12/28/98	28	ND	ND	276[2]	--	--
	03/22/99	0.68	ND	2.3	320[3]	--	--
	06/09/99	0.50	ND	ND	290[3]	--	--
	09/08/99	1.90	ND[1]	ND[1]	235[3]	--	--
	12/07/99	0.250	ND[1]	ND[1]	389[3]	2.28	--
	03/13/00	4.3	0.31	ND	[2]121/184[3]	--	--
	06/21/00	0.26	ND[1]	ND[1]	136[2]	1.96	--
	09/27/00	0.64	ND[1]	10.5	142[2]	2.12	--
	12/12/00	2.7	ND[1]	ND[1]	155[2]	2.35	--
	03/07/01	0.677	2.24	3.02	148[2]	2.21	--
	06/06/01	0.80[4]	ND	2.8	163[2]	2.67	--
	09/24/01	<0.10	0.49[5]	--	151[2]	2.10	--
	12/10/01	<0.10	<0.50	0.20	171[2]	2.81	--
	03/11/02	<0.10	<0.50	0.65	156[2]	2.77	--
	06/04/02	<0.10	<0.50	<0.10	144[2]	3.14	--
	09/03/02	<0.25	<0.50	0.26	151[2]	2.85	--
	12/03/02	9.9	<1.0	<1.0	94[2]	1.97	--
	03/04/03	8.6	<1.0	<1.0	-147[2]	0.40	--
	06/18/03	**5.5**	**<1.0**	**3.1**	**-8[2]**	**--**	**3.2**

Table 3

Field Measurements and Groundwater Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID	DATE	Ferrous Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	ORP (mV)	D.O. Before Purge (mg/L)	D.O. After Purge (mg/L)
U-3	06/30/97	1.4	21	0.86	190[3]	4.10	--
	09/19/97	0.57	19	ND	75[3]	4.20	--
	12/12/97	1.9	23	0.85	390[3]	2.97	--
	03/03/98	0.013	36	ND	358[2]	2.63	--
	06/15/98	0.16	33	ND	318[2]	2.93	--
	09/30/98	0.040	31	ND	295[2]	3.11	--
	12/28/98	ND	29	ND	281[2]	3.59	--
	03/22/99	0.015	30	0.14	310[3]	4.02	--
	06/09/99	ND	26	1.2	350[3]	3.70	--
	09/08/99	ND	32.9	ND[1]	417[3]	3.96	--
	12/07/99	0.0520	27.9	ND[1]	437[3]	4.21	--
	03/13/00	0.15	33	ND	[2]226/307[3]	--	--
	06/21/00	0.20	32	ND[1]	225[2]	4.27	--
	09/27/00	ND	34	15.7	211[2]	4.67	--
	12/12/00	ND	31	ND[1]	246[2]	4.79	--
	03/07/01	ND	36.5	0.443	251[2]	5.16	--
	06/06/01	ND[4]	8.0	0.18	214[2]	4.79	--
	09/24/01	<0.10	23[5]	--	198[2]	4.27	--
	12/10/01	<0.10	21	0.11	188[2]	4.66	--
	03/11/02	<0.10	30	0.14	166[2]	5.06	--
	06/04/02	<0.10	18	<0.10	151[2]	5.79	--
	09/03/02	<0.10[5]	28	<0.10	143[2]	6.04	--
	12/03/02	<0.20	20	<1.0	154[2]	5.58	--
	03/04/03	<0.20	18	<1.0	-136[2]	0.20	--
	06/18/03	**<0.20**	**17**	**<1.0**	**333[2]**	--	**3.5**
U-4	06/30/97	0.13	35	0.52	200[3]	5.40	--
	09/19/97	0.35	30	ND	45[3]	5.10	--
	12/12/97	0.68	31	0.73	380[3]	3.11	--
	03/03/98	0.018	3.2	ND	284[2]	2.94	--
	06/15/98	0.14	33	ND	256[2]	3.08	--
	09/30/98	0.049	31	ND	276[2]	4.05	--
	12/28/98	0.36	31	ND	280[2]	4.57	--
	03/22/99	ND	30	0.14	320[3]	4.26	--
	06/09/99	ND	35	0.91	340[3]	3.61	--
	09/08/99	ND	24	ND[1]	391[3]	3.75	--
	12/07/99	ND	27.7	ND[1]	478[3]	4.03	--
	03/13/00	ND	33	ND	[2]219/244[3]	--	--
	06/21/00	0.034	32	ND[1]	248[2]	4.89	--
	09/27/00	ND	28	ND[1]	198[2]	5.09	--
	12/12/00	ND	30	ND[1]	210[2]	4.86	--
	03/07/01	ND	33.9	0.226	233[2]	4.97	--
	06/06/01	ND[4]	7.4	0.21	248[2]	5.12	--
	09/24/01	<0.10	24[5]	--	262[2]	4.86	--

Table 3

Field Measurements and Groundwater Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID	DATE	Ferrous Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	ORP (mV)	D.O. Before Purge (mg/L)	D.O. After Purge (mg/L)
U-4	12/10/01	<0.10	19	0.10	242[2]	5.05	--
(cont)	03/11/02	<0.10	31	0.14	195[2]	4.83	--
	06/04/02	<0.10	27	<0.10	169[2]	5.58	--
	09/03/02	<0.10[5]	28	0.27	126[2]	5.94	--
	12/03/02	<0.20	20	<1.0	133[2]	5.82	--
	03/04/03	<0.20	26	<1.0	-148[2]	0.30	--
	06/18/03	**<0.20**	**31**	**<1.0**	**250[2]**	--	**3.6**
U-5	06/30/97	16	ND	ND	160[3]	3.40	--
	09/19/97	0.22	ND	ND	63[3]	0.60	--
	12/12/97	6.7	ND	ND	400[3]	1.75	--
	03/03/98	18	3.1	ND	345[2]	2.36	--
	06/15/98	17	ND	ND	333[2]	2.55	--
	09/30/98	17	ND	ND	318[2]	1.93	--
	12/28/98	17	6.6	ND	305[2]	1.64	--
	03/22/99	0.12	ND	2.4	340[3]	1.99	--
	06/09/99	0.23	ND	ND	320[3]	2.10	--
	09/08/99	2.10	ND[1]	ND[1]	335[3]	2.21	--
	12/07/99	0.310	ND[1]	ND[1]	408[3]	2.66	--
	03/13/00	0.33	0.16	ND	[2]111/264[3]	--	--
	06/21/00	0.15	ND[1]	ND[1]	159[2]	3.42	--
	09/27/00	0.33	ND[1]	ND[1]	136[2]	3.85	--
	12/12/00	0.086	ND[1]	ND[1]	122[2]	3.53	--
	03/07/01	1.07	3.02	4.00	141[2]	2.98	--
	06/06/01	ND[4]	ND	1.2	112[2]	2.67	--
	09/24/01	<0.10	0.77[5]	--	146[2]	3.15	--
	12/10/01	3.7	<0.50	2.6	96[2]	2.85	--
	03/11/02	0.10	<0.50	0.52	108[2]	3.15	--
	06/04/02	<0.25	<0.50	<0.10	118[2]	3.46	--
	09/03/02	<0.25	<0.50	<0.10	87[2]	2.85	--
	12/03/02	22	<1.0	<1.0	104[2]	2.71	--
	03/04/03	19	<1.0	<1.0	-166[2]	0.20	--
	06/18/03	**11**	**<1.0**	**<1.0**	**-10[2]**	--	**2.4**
U-6	06/30/97	88	0.80	ND	190[3]	0.30	--
	09/19/97	2.9	1.80	ND	ND[3]	0.60	--
	12/12/97	51	ND	ND	380[3]	2.70	--
	03/03/98	60	3.5	ND	327[2]	2.18	--
	06/15/98	590	4.8	ND	315[2]	2.48	--
	09/30/98	33	ND	ND	345[2]	3.06	--
	12/28/98	83	7.2	ND	297[2]	3.42	--
	03/22/99	2.1	ND	0.98	330[3]	3.88	--
	06/09/99	0.47	0.20	ND	320[3]	3.29	--

Table 3

Field Measurements and Groundwater Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

WELL ID	DATE	Ferrous Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	ORP (mV)	D.O. Before Purge (mg/L)	D.O. After Purge (mg/L)
U-6	09/08/99	0.140	5.59	ND[1]	305[3]	3.12	--
(cont)	12/07/99	0.260	ND[1]	ND[1]	443[3]	3.44	--
	03/13/00	0.79	0.26	ND	[2]68/222[3]	--	--
	06/21/00	1.9	ND[1]	ND[1]	159[2]	3.27	--
	09/27/00	2.6	ND[1]	ND[1]	170[2]	3.49	--
	12/12/00	ND	2.7	ND[1]	128[2]	3.06	--
	03/07/01	2.52	3.11	37.0	117[2]	2.85	--
	06/06/01	0.47[4]	0.15	0.70	97[2]	2.46	--
	09/24/01	<0.10	0.58[5]	--	123[2]	3.10	--
	12/10/01	0.99	0.50	2.0	112[2]	2.57	--
	03/11/02	1.2	<0.50	0.089	128[2]	3.03	--
	06/04/02	<0.10	<0.50	<1.0	97[2]	2.84	--
	09/03/02	<0.10	0.58	1.1	110[2]	3.12	--
	12/03/02	1.2	<1.0	2.6	95[2]	2.96	--
	03/04/03	20	<1.0	<1.0	-112[2]	0.30	--
	06/18/03	**3.2**	**<1.0**	**2.0**	**-15[2]**	**--**	**3.2**

Table 3

Field Measurements and Groundwater Analytical Results

Tosco (Unocal) Service Station #5325
3220 Lakeshore Avenue
Oakland, California

EXPLANATIONS:

Groundwater analytical results prior to March 3, 1998, were compiled from reports prepared by MPDS Services, Inc.

ORP = Oxidation Reduction Potential
(mV) = millivolts
D.O. = Dissolved Oxygen
(mg/L) = milligrams per liter
(ppm) = Parts per million
ND = Not Detected
-- = Not Measured/Not Analyzed

[1] Detection limit raised. Refer to analytical reports.
[2] Field measurement.
[3] Analyzed by laboratory.
[4] Due to the transfer of samples from one laboratory to another laboratory; the sample was received beyond the EPA recommended holding time.
[5] Laboratory report indicates the sample was analyzed beyond the EPA recommended holding time.

ANALYTICAL METHODS:

Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method
Nitrate as NO3 by EPA Method 300.0
Phosphate as PO4 by EPA Method 300.0

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#5325 Job Number: 180061
Site Address: 3220 Lakeshore Avenue Event Date: 6/18/03 (inclusive)
City: Oakland, CA Sampler: Andrew Smith

Well ID U-1 Date Monitored: 6/18/03 Well Condition: ok
Well Diameter 2 (3) 4 in.
Total Depth 19.65 ft.
Depth to Water 7.58 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

12.07 xVF 0.38 = 4.6 x3 (case volume) = Estimated Purge Volume: 13.8 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): 1300 Weather Conditions: Sunny
Sample Time/Date: 1315 / 6/18/03 Water Color: Clear Odor: yes
Purging Flow Rate: 5 gpm. Sediment Description: none
Did well de-water? No If yes, Time: Ø Volume: Ø gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1301	5	7.62	1266	20.3		
1302	10	7.34	1285	19.7		
1303	15	7.21	1317	20.7	1.7	-48

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-1	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
U-1	1 x 500ml Poly	YES	NP	STL Pleasanton	Nitrate/Phosphate
U-1	1 x 250ml Poly	YES	HNO3	STL Pleasanton	Ferrous Iron

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5325 Job Number: 180061
Site Address: 3220 Lakeshore Avenue Event Date: 6/18/03 (inclusive)
City: Oakland, CA Sampler: Andrew Smith

Well ID U-2 Date Monitored: 6/18/03 Well Condition: OK
Well Diameter 2 (3) 4 in.
Total Depth 19.62 ft.
Depth to Water 6.87 ft.
12.75 xVF 0.38 = 4.8 x3 (case volume) = Estimated Purge Volume: 14.4 gal.

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

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): 1345 Weather Conditions: Sunny
Sample Time/Date: 1400 / 6/18/03 Water Color: Clear Odor: Yes
Purging Flow Rate: 5 gpm. Sediment Description: none
Did well de-water? no If yes, Time: Ø Volume: Ø gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1346	5	7.81	1880	20.9		
1347	10	7.70	2029	20.5		
1348	15	7.19	2007	21.7	3.2	-8

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-2	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
U-2	1 x 500ml Poly	YES	NP	STL Pleasanton	Nitrate/Phosphate
U-2	1 x 250ml Poly	YES	HNO3	STL Pleasanton	Ferrous Iron

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5325 Job Number: 180061
Site Address: 3220 Lakeshore Avenue Event Date: 6/18/03 (inclusive)
City: Oakland, CA Sampler: Andrew Smith

Well ID U-3 Date Monitored: 6/18/03 Well Condition: Ok
Well Diameter 2 (3) 4 in.
Total Depth 19.33 ft.
Depth to Water 10.26 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

9.07 xVF 0.38 = 3.4 x3 (case volume) = Estimated Purge Volume: 10.2 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): 1105 Weather Conditions: Sunny Breeze
Sample Time/Date: 1115 6/18/03 Water Color: Clear Odor: none
Purging Flow Rate: 2 gpm. Sediment Description: none
Did well de-water? no If yes, Time: Ø Volume: Ø gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1107	4	8.04	653	23.4		
1109	8	7.80	597	20.0		
1111	12	7.63	602	19.5	3.5	333

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-3	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
U-3	1 x 500ml Poly	YES	NP	STL Pleasanton	Nitrate/Phosphate
U-3	1 x 250ml Poly	YES	HNO3	STL Pleasanton	Ferrous Iron

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5325 Job Number: 180061
Site Address: 3220 Lakeshore Avenue Event Date: 6/18/03 (inclusive)
City: Oakland, CA Sampler: Andrew Smith

Well ID U-4 Date Monitored: 6/18/03 Well Condition: OK
Well Diameter 2 / 3 / (4) in.
Total Depth 20.16 ft.
Depth to Water 7.65 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

12.51 xVF 0.66 = 8.3 x3 (case volume) = Estimated Purge Volume: 24.9 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): 1140 Weather Conditions: Sunny / Breeze
Sample Time/Date: 1150 / 6/18/03 Water Color: Clear Odor: none
Purging Flow Rate: 5 gpm. Sediment Description: none
Did well de-water? no If yes, Time: Ø Volume: Ø gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1142	10	7.99	723	20.9		
1144	20	7.81	658	20.6		
1145	25	7.58	661	21.2	3.6	250

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-4	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
U-4	1 x 500ml Poly	YES	NP	STL Pleasanton	Nitrate/Phosphate
U-4	1 x 250ml Poly	YES	HNO3	STL Pleasanton	Ferrous Iron

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5325 Job Number: 180061
Site Address: 3220 Lakeshore Avenue Event Date: 6/18/03 (inclusive)
City: Oakland, CA Sampler: Andrew Smith

Well ID U-5 Date Monitored: 6/18/03 Well Condition: OK
Well Diameter 2 / 3 (4) in.
Total Depth 20.06 ft.
Depth to Water 6.25 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

13.81 xVF 0.66 = 9.1 x3 (case volume) = Estimated Purge Volume: 27.3 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): 1210 Weather Conditions: Sunny
Sample Time/Date: 1220 / 6/18/03 Water Color: Clear Odor: Yes
Purging Flow Rate: 5 gpm. Sediment Description: none
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)
1212	10	7.23	3355	20.0		
1214	20	7.05	3202	20.0		
1216	30	7.02	3116	20.2	2.4	-10

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-5	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
U-5	1 x 500ml Poly	YES	NP	STL Pleasanton	Nitrate/Phosphate
U-5	1 x 250ml Poly	YES	HNO3	STL Pleasanton	Ferrous Iron

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5325 Job Number: 180061
Site Address: 3220 Lakeshore Avenue Event Date: 6/18/03 (inclusive)
City: Oakland, CA Sampler: Andrew Smith

Well ID U-6 Date Monitored: 6/18/03 Well Condition:
Well Diameter (2) 3 / 4 in.
Total Depth 23.74 ft.
Depth to Water 6.60 ft.
17.14 xVF 0.17 = 2.9 x3 (case volume) = Estimated Purge Volume: 8.7 gal.

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

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): 1230 Weather Conditions: Sunny
Sample Time/Date: 1240 6/18/03 Water Color: Clear/Cloudy Odor: ~~Yes~~
Purging Flow Rate: 2 gpm. Sediment Description: Silty Sand
Did well de-water? no If yes, Time: ~~0~~ Volume: ~~0~~ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1231	2	8.01	1775	19.4		
1232	4	7.62	1665	18.4		
1236	8	7.40	1620	196	3.2	-15

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-6	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)
U-6	1 x 500ml Poly	YES	NP	STL Pleasanton	Nitrate/Phosphate
U-6	1 x 250ml Poly	YES	HNO3	STL Pleasanton	Ferrous Iron

COMMENTS:

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

2003-06-0630 Getler-Ryan Inc., Chain-of-Custody

7530

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

Facility Number #5325
Facility Address 3220 Lakeshore Avenue, Oakland, CA
Global ID T0600101463 Project 180061.80
Client Contact David DeWitt
Phone 916-558-7666

Laboratory Name STL PLEASANTON
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 Adrian Smith

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	Nitrate/Phosphate	Phosphate	Ferrous Iron	
U-1	5	W	HCl	6/18/03 1315					X									X	X	X	
U-2	5			1410					X									X	X	X	
U-3	5			1115					X									X	X	X	
U-4	5			1150					X									X	X	X	
U-5	5			1220					X									X	X	X	
U-6	5	↓	↓	1240					X									X	X	X	
QA	2	W	HCl	6/18/03					X												

Remarks

Run 8 Oxy's by 8260 on all 8260 MTBE hits.

Ferrous Iron has been filtered and preserved.

SHORT HOLD ANALYSIS SAMPLES

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

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
[signature]	GRI	6/18/03 1530	[signature]	G-R	6/18/03 1530	
[signature]	G-R	6/19/03 0930	[signature]	STL-SF	6/19/03 0930	
[signature]	STL-SF	6/19/03 1630	Received For Laboratory By (Signature) [signature]/STL-SF		6/19/03 1658	

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

SEVERN TRENT STL

Submission#: 2003-06-0630

Gettler Ryan

July 13, 2003

6747 Sierra Court Suite J
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180061.80
Project: Conoco #5325
Site: 3220 Lakeshore Avenue, Oakland

Dear Ms. Harding,

Attached is our report for your samples received on 06/19/2003 16:58
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/03/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,

Tod Granicher
Project Manager

SEVERN TRENT STL

Submission #: 2003-06-0630

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
U-1	06/18/2003 13:15	Water	1
U-2	06/18/2003 14:10	Water	2
U-3	06/18/2003 11:15	Water	3
U-4	06/18/2003 11:50	Water	4
U-5	06/18/2003 12:20	Water	5
U-6	06/18/2003 12:40	Water	6
QA	06/18/2003	Water	7

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**U-1**	Lab ID:	2003-06-0630 - 1
Sampled:	06/18/2003 13:15	Extracted:	6/29/2003 16:41
Matrix:	Water	QC Batch#:	2003/06/29-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	8300	2500	ug/L	50.00	06/29/2003 16:41	
Benzene	ND	25	ug/L	50.00	06/29/2003 16:41	
Toluene	ND	25	ug/L	50.00	06/29/2003 16:41	
Ethylbenzene	ND	25	ug/L	50.00	06/29/2003 16:41	
Total xylenes	ND	50	ug/L	50.00	06/29/2003 16:41	
tert-Butyl alcohol (TBA)	ND	5000	ug/L	50.00	06/29/2003 16:41	
Methyl tert-butyl ether (MTBE)	10000	100	ug/L	50.00	06/29/2003 16:41	
Di-isopropyl Ether (DIPE)	ND	100	ug/L	50.00	06/29/2003 16:41	
Ethyl tert-butyl ether (ETBE)	ND	100	ug/L	50.00	06/29/2003 16:41	
tert-Amyl methyl ether (TAME)	ND	100	ug/L	50.00	06/29/2003 16:41	
1,2-DCA	ND	100	ug/L	50.00	06/29/2003 16:41	
EDB	ND	100	ug/L	50.00	06/29/2003 16:41	
Ethanol	ND	25000	ug/L	50.00	06/29/2003 16:41	
Surrogates(s)						
1,2-Dichloroethane-d4	87.8	76-114	%	50.00	06/29/2003 16:41	
Toluene-d8	96.2	88-110	%	50.00	06/29/2003 16:41	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-2	Lab ID:	2003-06-0630 - 2
Sampled:	06/18/2003 14:10	Extracted:	6/30/2003 15:25
Matrix:	Water	QC Batch#:	2003/06/30-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	5000	ug/L	100.00	06/30/2003 15:25	g
Benzene	ND	50	ug/L	100.00	06/30/2003 15:25	
Toluene	ND	50	ug/L	100.00	06/30/2003 15:25	
Ethylbenzene	ND	50	ug/L	100.00	06/30/2003 15:25	
Total xylenes	ND	100	ug/L	100.00	06/30/2003 15:25	
tert-Butyl alcohol (TBA)	ND	10000	ug/L	100.00	06/30/2003 15:25	
Methyl tert-butyl ether (MTBE)	16000	200	ug/L	100.00	06/30/2003 15:25	
Di-isopropyl Ether (DIPE)	ND	200	ug/L	100.00	06/30/2003 15:25	
Ethyl tert-butyl ether (ETBE)	ND	200	ug/L	100.00	06/30/2003 15:25	
tert-Amyl methyl ether (TAME)	ND	200	ug/L	100.00	06/30/2003 15:25	
1,2-DCA	ND	200	ug/L	100.00	06/30/2003 15:25	
EDB	ND	200	ug/L	100.00	06/30/2003 15:25	
Ethanol	ND	50000	ug/L	100.00	06/30/2003 15:25	
Surrogates(s)						
1,2-Dichloroethane-d4	105.4	76-114	%	100.00	06/30/2003 15:25	
Toluene-d8	103.9	88-110	%	100.00	06/30/2003 15:25	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**U-3**	Lab ID:	2003-06-0630 - 3
Sampled:	06/18/2003 11:15	Extracted:	6/30/2003 15:47
Matrix:	Water	QC Batch#:	2003/06/30-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/30/2003 15:47	
Benzene	ND	0.50	ug/L	1.00	06/30/2003 15:47	
Toluene	ND	0.50	ug/L	1.00	06/30/2003 15:47	
Ethylbenzene	ND	0.50	ug/L	1.00	06/30/2003 15:47	
Total xylenes	ND	1.0	ug/L	1.00	06/30/2003 15:47	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	06/30/2003 15:47	
Surrogates(s)						
1,2-Dichloroethane-d4	98.1	76-114	%	1.00	06/30/2003 15:47	
Toluene-d8	98.7	88-110	%	1.00	06/30/2003 15:47	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-4	Lab ID:	2003-06-0630 - 4
Sampled:	06/18/2003 11:50	Extracted:	6/29/2003 17:48
Matrix:	Water	QC Batch#:	2003/06/29-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/29/2003 17:48	
Benzene	ND	0.50	ug/L	1.00	06/29/2003 17:48	
Toluene	ND	0.50	ug/L	1.00	06/29/2003 17:48	
Ethylbenzene	ND	0.50	ug/L	1.00	06/29/2003 17:48	
Total xylenes	ND	1.0	ug/L	1.00	06/29/2003 17:48	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	06/29/2003 17:48	
Surrogates(s)						
1,2-Dichloroethane-d4	87.9	76-114	%	1.00	06/29/2003 17:48	
Toluene-d8	94.2	88-110	%	1.00	06/29/2003 17:48	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-5	Lab ID:	2003-06-0630 - 5
Sampled:	06/18/2003 12:20	Extracted:	6/29/2003 18:10
Matrix:	Water	QC Batch#:	2003/06/29-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	51	50	ug/L	1.00	06/29/2003 18:10	g
Benzene	ND	0.50	ug/L	1.00	06/29/2003 18:10	
Toluene	ND	0.50	ug/L	1.00	06/29/2003 18:10	
Ethylbenzene	ND	0.50	ug/L	1.00	06/29/2003 18:10	
Total xylenes	ND	1.0	ug/L	1.00	06/29/2003 18:10	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	06/29/2003 18:10	
Methyl tert-butyl ether (MTBE)	36	2.0	ug/L	1.00	06/29/2003 18:10	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	06/29/2003 18:10	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	06/29/2003 18:10	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	06/29/2003 18:10	
1,2-DCA	ND	2.0	ug/L	1.00	06/29/2003 18:10	
EDB	ND	2.0	ug/L	1.00	06/29/2003 18:10	
Ethanol	ND	500	ug/L	1.00	06/29/2003 18:10	
Surrogates(s)						
1,2-Dichloroethane-d4	88.3	76-114	%	1.00	06/29/2003 18:10	
Toluene-d8	95.7	88-110	%	1.00	06/29/2003 18:10	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s): 5030B
Sample ID: **U-6**
Sampled: 06/18/2003 12:40
Matrix: Water

Test(s): 8260FAB
Lab ID: 2003-06-0630 - 6
Extracted: 6/30/2003 16:10
QC Batch#: 2003/06/30-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	1000	ug/L	20.00	06/30/2003 16:10	g
Benzene	ND	10	ug/L	20.00	06/30/2003 16:10	
Toluene	ND	10	ug/L	20.00	06/30/2003 16:10	
Ethylbenzene	ND	10	ug/L	20.00	06/30/2003 16:10	
Total xylenes	ND	20	ug/L	20.00	06/30/2003 16:10	
tert-Butyl alcohol (TBA)	ND	2000	ug/L	20.00	06/30/2003 16:10	
Methyl tert-butyl ether (MTBE)	1700	40	ug/L	20.00	06/30/2003 16:10	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	06/30/2003 16:10	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	06/30/2003 16:10	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	06/30/2003 16:10	
1,2-DCA	ND	40	ug/L	20.00	06/30/2003 16:10	
EDB	ND	40	ug/L	20.00	06/30/2003 16:10	
Ethanol	ND	10000	ug/L	20.00	06/30/2003 16:10	
Surrogates(s)						
1,2-Dichloroethane-d4	106.3	76-114	%	20.00	06/30/2003 16:10	
Toluene-d8	97.1	88-110	%	20.00	06/30/2003 16:10	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**QA**	Lab ID:	2003-06-0630 - 7
Sampled:	06/18/2003	Extracted:	6/30/2003 16:32
Matrix:	Water	QC Batch#:	2003/06/30-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/30/2003 16:32	
Benzene	ND	0.50	ug/L	1.00	06/30/2003 16:32	
Toluene	ND	0.50	ug/L	1.00	06/30/2003 16:32	
Ethylbenzene	ND	0.50	ug/L	1.00	06/30/2003 16:32	
Total xylenes	ND	1.0	ug/L	1.00	06/30/2003 16:32	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	06/30/2003 16:32	
Surrogates(s)						
1,2-Dichloroethane-d4	103.6	76-114	%	1.00	06/30/2003 16:32	
Toluene-d8	96.1	88-110	%	1.00	06/30/2003 16:32	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/06/29-01.62-002

Water

Test(s): 8260FAB
QC Batch # 2003/06/29-01.62
Date Extracted: 06/29/2003 11:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/29/2003 11:02	
Gasoline	ND	50	ug/L	06/29/2003 11:02	
Benzene	ND	0.5	ug/L	06/29/2003 11:02	
Toluene	ND	0.5	ug/L	06/29/2003 11:02	
Ethylbenzene	ND	0.5	ug/L	06/29/2003 11:02	
Total xylenes	ND	1.0	ug/L	06/29/2003 11:02	
tert-Butyl alcohol (TBA)	ND	100	ug/L	06/29/2003 11:02	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	06/29/2003 11:02	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	06/29/2003 11:02	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	06/29/2003 11:02	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	06/29/2003 11:02	
1,2-DCA	ND	2.0	ug/L	06/29/2003 11:02	
EDB	ND	2.0	ug/L	06/29/2003 11:02	
Ethanol	ND	500	ug/L	06/29/2003 11:02	
Surrogates(s)					
1,2-Dichloroethane-d4	92.5	76-114	%	06/29/2003 11:02	
Toluene-d8	93.5	88-110	%	06/29/2003 11:02	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/06/30-01.62-018

Water

Test(s): 8260FAB
QC Batch # 2003/06/30-01.62
Date Extracted: 06/30/2003 14:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/30/2003 14:18	
Benzene	ND	0.5	ug/L	06/30/2003 14:18	
Toluene	ND	0.5	ug/L	06/30/2003 14:18	
Ethylbenzene	ND	0.5	ug/L	06/30/2003 14:18	
Total xylenes	ND	1.0	ug/L	06/30/2003 14:18	
tert-Butyl alcohol (TBA)	ND	100	ug/L	06/30/2003 14:18	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	06/30/2003 14:18	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	06/30/2003 14:18	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	06/30/2003 14:18	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	06/30/2003 14:18	
1,2-DCA	ND	2.0	ug/L	06/30/2003 14:18	
EDB	ND	2.0	ug/L	06/30/2003 14:18	
Ethanol	ND	500	ug/L	06/30/2003 14:18	
Surrogates(s)					
1,2-Dichloroethane-d4	95.7	76-114	%	06/30/2003 14:18	
Toluene-d8	93.6	88-110	%	06/30/2003 14:18	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/06/29-01.62**

LCS 2003/06/29-01.62-017 Extracted: 06/29/2003 Analyzed: 06/29/2003 10:17

LCSD 2003/06/29-01.62-040 Extracted: 06/29/2003 Analyzed: 06/29/2003 10:40

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	27.0	26.8	25.0	108.0	107.2	0.7	69-129	20		
Toluene	25.9	25.7	25.0	103.6	102.8	0.8	70-130	20		
Methyl tert-butyl ether (MTBE)	29.8	27.2	25.0	119.2	108.8	9.1	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	466	445	500	93.2	89.0		76-114			
Toluene-d8	489	490	500	97.8	98.0		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/06/30-01.62**

LCS 2003/06/30-01.62-033 Extracted: 06/30/2003 Analyzed: 06/30/2003 13:33

LCSD 2003/06/30-01.62-056 Extracted: 06/30/2003 Analyzed: 06/30/2003 13:56

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	25.2	26.4	25.0	100.8	105.6	4.7	69-129	20		
Toluene	24.4	25.5	25.0	97.6	102.0	4.4	70-130	20		
Methyl tert-butyl ether (MTBE)	28.2	28.5	25.0	112.8	114.0	1.1	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	467	479	500	93.4	95.8		76-114			
Toluene-d8	476	495	500	95.2	99.0		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Matrix Spike (MS / MSD)

Water

QC Batch # 2003/06/29-01.62

U-3 >> MS

Lab ID: 2003-06-0630 - 003

MS: 2003/06/29-01.62-041

Extracted: 06/29/2003

Analyzed: 06/29/2003 19:18

Dilution: 1.00

MSD:

Analyzed:

Dilution:

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	26.7		ND	25.0	106.8			69-129	20		
Toluene	25.8		ND	25.0	103.2			70-130	20		
Methyl tert-butyl ether	27.2		ND	25.0	108.8			65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	425			500	85.0			76-114	0		
Toluene-d8	491			500	98.2			88-110	0		

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

SEVERN TRENT STL

Submission #: 2003-06-0630

Dissolved Metals

Gettler Ryan
Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
U-1	06/18/2003 13:15	Water	1
U-2	06/18/2003 14:10	Water	2
U-3	06/18/2003 11:15	Water	3
U-4	06/18/2003 11:50	Water	4
U-5	06/18/2003 12:20	Water	5
U-6	06/18/2003 12:40	Water	6

Dissolved Metals

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**U-1**	Lab ID:	2003-06-0630 - 1
Sampled:	06/18/2003 13:15	Extracted:	6/30/2003 08:01
Matrix:	Water	QC Batch#:	2003/06/30-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	16	0.20	mg/L	1.00	07/01/2003 21:06	

Dissolved Metals

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**U-2**	Lab ID	2003-06-0630 - 2
Sampled:	06/18/2003 14:10	Extracted:	6/30/2003 08:01
Matrix:	Water	QC Batch#:	2003/06/30-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	5.5	0.20	mg/L	1.00	07/01/2003 21:40	

Dissolved Metals

Gettler Ryan
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Dublin, CA 94568
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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**U-3**	Lab ID:	2003-06-0630 - 3
Sampled:	06/18/2003 11:15	Extracted:	6/30/2003 08:01
Matrix:	Water	QC Batch#:	2003/06/30-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	07/01/2003 21:44	

Dissolved Metals

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**U-4**	Lab ID:	2003-06-0630 - 4
Sampled:	06/18/2003 11:50	Extracted:	6/30/2003 08:01
Matrix:	Water	QC Batch#:	2003/06/30-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	07/01/2003 21:48	

Dissolved Metals

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568
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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	3005A	Test(s):	6010B
Sample ID:	U-5	Lab ID:	2003-06-0630 - 5
Sampled:	06/18/2003 12:20	Extracted:	6/30/2003 08:01
Matrix:	Water	QC Batch#:	2003/06/30-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	11	0.20	mg/L	1.00	07/01/2003 21:53	

Dissolved Metals

Gettler Ryan

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s): 3005A
Sample ID: **U-6**
Sampled: 06/18/2003 12:40
Matrix: Water

Test(s): 6010B
Lab ID: 2003-06-0630 - 6
Extracted: 6/30/2003 08:01
QC Batch#: 2003/06/30-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	3.2	0.20	mg/L	1.00	07/01/2003 21:57	

Dissolved Metals

Gettler Ryan

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 3005A
Method Blank
MB: 2003/06/30-03.15-210

Water

Test(s): 6010B
QC Batch # 2003/06/30-03.15
Date Extracted: 06/30/2003 08:01

Compound	Conc.	RL	Unit	Analyzed	Flag
Iron	ND	0.20	mg/L	07/01/2003 20:54	

Dissolved Metals

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Water** **QC Batch # 2003/06/30-03.15**

LCS 2003/06/30-03.15-211 Extracted: 06/30/2003 Analyzed: 07/01/2003 20:58

LCSD 2003/06/30-03.15-212 Extracted: 06/30/2003 Analyzed: 07/01/2003 21:02

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Iron	4.71	4.72	5.00	94.2	94.4	0.2	80-120	20		

SEVERN TRENT STL

Submission #: 2003-06-0630

Misc Anions by Ion Chromatograph

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
U-1	06/18/2003 13:15	Water	1
U-2	06/18/2003 14:10	Water	2
U-3	06/18/2003 11:15	Water	3
U-4	06/18/2003 11:50	Water	4
U-5	06/18/2003 12:20	Water	5
U-6	06/18/2003 12:40	Water	6

Misc Anions by Ion Chromatograph

Gettler Ryan

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Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	U-1	Lab ID:	2003-06-0630 - 1
Sampled:	06/18/2003 13:15	Extracted:	6/20/2003 07:43
Matrix:	Water	QC Batch#:	2003/06/20-01.41

Analysis Flag: . (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	06/20/2003 07:43	
Orthophosphate	ND	1.0	mg/L	1.00	06/20/2003 07:43	

Misc Anions by Ion Chromatograph

Gettler Ryan

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	U-2	Lab ID:	2003-06-0630 - 2
Sampled:	06/18/2003 14:10	Extracted:	6/20/2003 07:51
Matrix:	Water	QC Batch#:	2003/06/20-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	06/20/2003 07:51	
Orthophosphate	3.1	1.0	mg/L	1.00	06/20/2003 07:51	

Misc Anions by Ion Chromatograph

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	U-3	Lab ID:	2003-06-0630 - 3
Sampled:	06/18/2003 11:15	Extracted:	6/20/2003 07:59
Matrix:	Water	QC Batch#:	2003/06/20-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	17	1.0	mg/L	1.00	06/20/2003 07:59	
Orthophosphate	ND	1.0	mg/L	1.00	06/20/2003 07:59	

Misc Anions by Ion Chromatograph

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	U-4	Lab ID:	2003-06-0630 - 4
Sampled:	06/18/2003 11:50	Extracted:	6/20/2003 08:07
Matrix:	Water	QC Batch#:	2003/06/20-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	31	1.0	mg/L	1.00	06/20/2003 08:07	
Orthophosphate	ND	1.0	mg/L	1.00	06/20/2003 08:07	

Misc Anions by Ion Chromatograph

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	U-5	Lab ID:	2003-06-0630 - 5
Sampled:	06/18/2003 12:20	Extracted:	6/20/2003 08:15
Matrix:	Water	QC Batch#:	2003/06/20-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	06/20/2003 08:15	
Orthophosphate	ND	1.0	mg/L	1.00	06/20/2003 08:15	

Misc Anions by Ion Chromatograph

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**U-6**	Lab ID:	2003-06-0630 - 6
Sampled:	06/18/2003 12:40	Extracted:	6/20/2003 08:23
Matrix:	Water	QC Batch#:	2003/06/20-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	06/20/2003 08:23	
Orthophosphate	2.0	1.0	mg/L	1.00	06/20/2003 08:23	

Misc Anions by Ion Chromatograph

Gettler Ryan

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 300.0/9056
Method Blank
MB: 2003/06/20-01.41-001

Water

Test(s): 300.0/9056
QC Batch # 2003/06/20-01.41
Date Extracted: 06/20/2003

Compound	Conc.	RL	Unit	Analyzed	Flag
Nitrate	ND	1.0	mg/L	06/20/2003	
Orthophosphate	ND	1.0	mg/L	06/20/2003	

Misc Anions by Ion Chromatograph

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Project: 180061.80
Conoco #5325

Received: 06/19/2003 16:58

Site: 3220 Lakeshore Avenue, Oakland

Batch QC Report

Prep(s): 300.0/9056

Test(s): 300.0/9056

Laboratory Control Spike **Water** **QC Batch # 2003/06/20-01.41**

LCS 2003/06/20-01.41-002 Extracted: 06/20/2003 Analyzed: 06/20/2003

LCSD 2003/06/20-01.41-003 Extracted: 06/20/2003 Analyzed: 06/20/2003

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Nitrate	19.6	19.6	20.0	98.0	98.0	0.0	80-120	20		
Orthophosphate	20.1	20.2	20.0	100.5	101.0	0.5	80-120	20		

Misc Anions by Ion Chromatograph

Gettler Ryan
Attn.: Deanna Harding

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Dublin, CA 94568
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Batch QC Report

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Test(s): 300.0/9056

Matrix Spike (MS / MSD) **Water** **QC Batch # 2003/06/20-01.41**

U-6 >> MS

Lab ID: 2003-06-0630 - 006

MS: 2003/06/20-01.41-004 Extracted: 06/20/2003 Analyzed: 06/20/2003

Dilution: 1.00

MSD: 2003/06/20-01.41-005 Extracted: 06/20/2003 Analyzed: 06/20/2003

Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Nitrate	32.5	25.5	ND	20.0	162.5	127.5	24.1	80-120	20	mso	rpd
Orthophosphate	32.6	28.8	1.95	20.0	153.3	134.3	13.2	80-120	20	mso	rpd

Misc Anions by Ion Chromatograph

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Legend and Notes

Analysis Flag

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.