ConocoPhillips

2000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

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

Environmental Department

Sept. 2, 2003

Re: Tosco (Former Unocal) Service Station #1871
96 MacArthur Blvd.
Oakland, California

" I declare under penalty of perjury, that to the best of my knowledge at the present time, 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 15, 2003
G-R #180068

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 (Former Unocal)
Service Station #1871
96 MacArthur Boulevard
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 15, 2003	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 16, 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 29, 2003***, this report will be distributed to the following:

cc: Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, California 94502

Enclosure

trans/1871-DBD

GETTLER-RYAN INC.

August 15, 2003
G-R Job #180068

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

RE: Third Quarter Event of July 16, 2003
Groundwater Monitoring & Sampling Report
Tosco (Former Unocal) Service Station #1871
96 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 reports 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: Field Measurements
Table 3: Groundwater Analytical Results - Oxygenate Compounds
Table 4: Groundwater Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

6747 Sierra Court, Suite J • Dublin, California 94568 • (925) 551-7555

EXPLANATION

- Groundwater monitoring well
- Destroyed groundwater monitoring well
- Ozone Sparge Point
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level
- 99.99 — Groundwater elevation contour, dashed where inferred

INTERSTATE HIGHWAY 580

SANTA CLARA AVENUE

MACARTHUR BLVD. OVERCROSSING (EASTBOUND ON-RAMP)

MACARTHUR BOULEVARD

HARRISON STREET

MACARTHUR BLVD.

WESTBOUND ON-RAMP

Planter

Sidewalk

Bridge Abutment

Concrete Island

Dirt

Conc. Drainage Ditch

Conc. Bridge Columns (Typ.)

Overhead Freeway Structure

Overhead Ramp

Dirt and Landscaping

Landscaping

Driveway

Quik Stop Market Building

Former Waste Oil Tank

Former Property Boundary

Former Station Building

Former Dispenser Island

Underground Storage Tanks

Dispensers

Approximate Property Boundary

Canopy

Former Underground Storage Tanks

Former Dispenser Island

66 MacArthur Blvd. (formerly 96 MacArthur)

MW-9 66.53

MW-10 67.95

MW-11 64.33

72.08 MW-8

MW-4

SP-H

MW-2

71.48 MW-7

SP-G

MW-5

SP-A

SP-F

MW-6 70.24

MW-3

SP-C

SP-BS

SP-BD

SP-E

SP-DS

SP-DD

MW-1 72.73

65.00

67.00

69.00

71.00

Approximate groundwater flow direction at a gradient of 0.03 to 0.04 Ft./Ft.

Source: Caltrans As-Built Plans and Right of Way Maps confirmed by field observations

0 40

Scale in Feet

FIGURE 1

POTENTIOMETRIC MAP
Tosco (Former Unocal) Service Station #1871
96 MacArthur Boulevard
Oakland, California

DATE July 16, 2003

REVISED DATE

REVIEWED BY

PROJECT NUMBER 180068

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

FILE NAME: P:\ENVIRO\CONOCOPHILLIPS-TOSCO\1871\003-1871.DWG | Layout Tab: Pot3

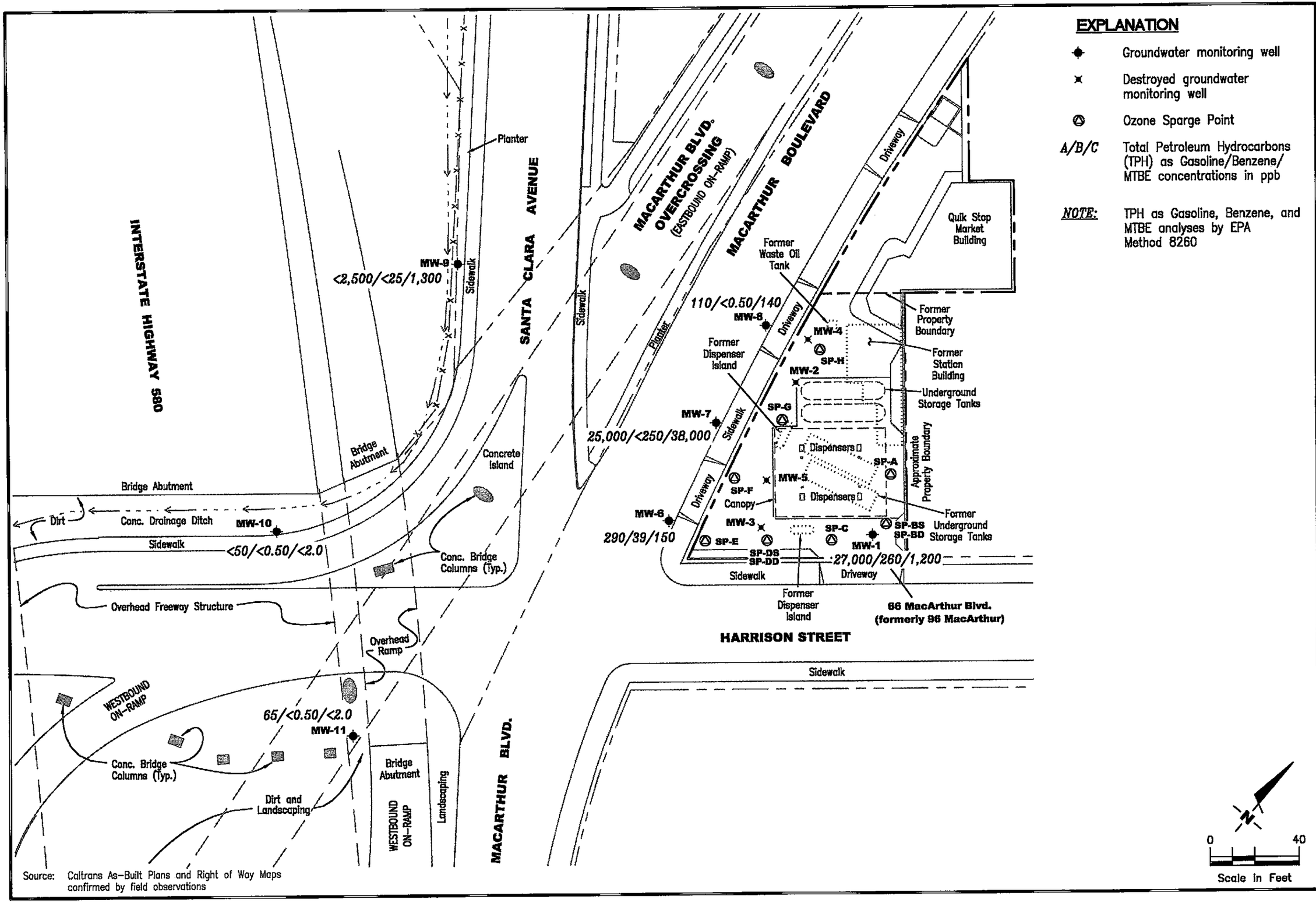

FIGURE 2

CONCENTRATION MAP
Tosco (Former Unocal) Service Station #1871
96 MacArthur Boulevard
Oakland, California

REVISED DATE

DATE July 16, 2003

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

PROJECT NUMBER 180068

REVIEWED BY

FILE NAME: P:\ENVIRO\CONOCOPHILLIPS-TOSCO\1871\003-1871.DWG | Layout Tab: Con3

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Former Unocal) Service Station #1871

96 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		11/03/92	--	9.5-24.5	--	260,000	2,300	4,600	3,700	17,000	--
		01/25/93	--		--	120,000	2,100	4,600	4,900	22,000	--
81.18		04/29/93	13.71		67.47	100,000	850	2,000	4,300	19,000	--
		07/16/93	14.51		66.67	29,000	590	560	980	4,200	--
		10/19/93	15.20		65.98	67,000	1,400	2,600	2,900	5,000	--
		01/20/94	15.17		66.01	92,000	1,200	3,000	3,400	17,000	--
		04/13/94	14.44		66.74	51,000	1,000	2,600	3,200	15,000	--
		07/13/94	14.88		66.30	35,000	550	150	1,400	5,700	--
		10/10/94	15.55		65.63	52,000	1,000	810	3,300	12,000	--
		01/10/95	12.44		68.74	810	16	18	59	250	--
		04/17/95	12.68		68.50	48,000	880	530	2,500	11,000	--
		07/24/95	13.97		67.21	48,000	1,500	420	2,700	9,700	--
		10/23/95	14.85		66.33	47,000	780	210	2,100	11,000	270
		01/18/96	14.21		66.97	30,000	1,500	500	3,500	13,000	2,400
86.24		04/18/96	13.40		72.84	66,000	2,700	2,200	3,100	13,000	57,000
		07/24/96	14.15		72.09	5,600	2,100	ND	160	160	24,000
		10/24/96	14.85		71.39	110,000	7,500	8,000	3,300	14,000	58,000
		01/28/97	11.25		74.99	94,000	7,700	19,000	3,100	15,000	120,000
		07/29/97	14.67		71.57	ND	ND	ND	ND	ND	70,000
		01/14/98	12.27		73.97	85,000	6,100	10,000	3,000	17,000	110,000
		07/01/98	14.32		71.92	110,000	8,700	12,000	2,700	15,000	110,000
		06/18/99	13.93		72.31	49,000	6,900	6,500	380	12,000	72,000/47,000[4]
		01/21/00	15.05		71.19	63,700[5]	5,520	2,000	2,640	13,100	57,100
		07/10/00	13.97		72.27	67,800[5]	9,910	4,120	3,330	16,100	67,400/54,000[4]
		01/04/01	14.92		71.32	63,900[5]	6,270	784	2,670	12,900	--/38,100[4]
		07/16/01	14.32		71.92	66,000[5]	7,100	330	2,300	9,800	36,000/41,000[4]
86.99	♦	01/31/02	13.54		73.45	42,000[5]	5,800	1,800	2,000	8,200	26,000/26,000[4]
		04/11/02	13.64		73.35	58,000	2,900	1,200	1,800	10,000	19,000
		07/11/02[8]	13.96		73.03	5,900	330	<10	230	600	3,400
		10/15/02[8]	14.71		72.28	470	16	<2.5	14	16	390
		01/14/03[8]	12.77		74.22	<50	<0.50	<0.50	<0.50	<1.0	49
		04/16/03[8]	13.18		73.81	510	57	0.62	29	61	160
		07/16/03[8]	**14.26**		**72.73**	**27,000**	**260**	**23**	**730**	**3,200**	**1,200**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Former Unocal) Service Station #1871

96 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	11/03/92	--	--	--	140	2.2	ND	ND	2.0	--
	01/25/93	--		--	2,100	56	1.1	90	140	--
76.61	04/29/93	9.73		66.88	1,500	290	ND	33	11	--
	07/16/93	10.17		66.44	510[1]	17	0.60	3.2	2.5	--
	10/19/93	11.18		65.43	670	24	1.1	7.7	23	--
	01/20/94	11.12		65.49	820	97	ND	12	ND	--
	04/13/94	10.12		66.49	550	71	ND	5.1	1.3	--
	07/13/94	10.86		65.75	2,000	490	ND	17	13	--
	10/10/94	11.48		65.13	2,300	340	ND	25	ND	--
	01/10/95	8.71		67.90	850	3.8	ND	8.5	1.3	--
	04/17/95	8.90		67.71	1,300	4.7	ND	8.3	1.2	--
	07/24/95	9.94		66.67	960	20	ND	4.2	6.2	--
	10/23/95	10.70		65.91	ND	ND	ND	ND	ND	19
	01/18/96	10.11		66.50	900	300	86	7.6	18	4,300
81.66	04/18/96	9.27		72.39	18,000	3,600	680	890	4,100	19,000
	07/24/96	10.02		71.64	100,000	13,000	21,000	2,700	16,000	120,000
	10/24/96	10.78		70.88	800	110	17	11	20	20,000
	01/28/97	7.70		73.96	45,000	2,400	2,900	2,000	7,600	29,000
	07/29/97	10.28		71.38	ND	1.2	0.72	0.63	0.62	17,000
	01/14/98	8.63		73.03	14,000	1,000	150	790	3,300	23,000
	07/01/98	9.53		72.13	2,700	100	ND[3]	180	78	7,100
	DESTROYED									
MW-3	11/03/92	--	--	--	2,100	120	15	38	200	--
	01/25/93	--		--	2,300	80	1	55	52	-
77.48	04/29/93	11.37		66.11	4,500	1,700	ND	200	140	--
	07/16/93	12.09		65.39	4,000[1]	1,100	28	52	70	--
	10/19/93	12.69		64.79	3,800	42	ND	50	56	--
	01/20/94	12.65		64.83	4,200	11	ND	21	15	--
	04/13/94	12.02		65.46	4,200	210	ND	36	53	--
	07/13/94	12.46		65.02	1,800[2]	16	16	ND	21	--
	10/10/94	12.98		64.50	4,300	11	ND	12	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Former Unocal) Service Station #1871
96 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	01/10/95	10.42	--	67.06	310	4.6	ND	3.5	2.1	--
(cont)	04/17/95	10.42		67.06	7,800	ND	4.6	300	450	--
	07/24/95	11.76		65.72	3,200	170	ND	22	16	--
	10/23/95	12.50		64.98	3,900	55	ND	19	11	4,500
	01/18/96	11.79		65.69	2,200	270	33	26	18	5,500
82.55	04/18/96	11.30		71.25	6,000	1,800	ND	100	230	48,000
	07/24/96	12.17		70.38	ND	2,500	ND	ND	ND	71,000
	10/24/96	12.65		69.90	3,800	660	ND	15	ND	65,000
	01/28/97	9.50		73.05	4,400	250	13	87	47	54,000
	07/29/97	11.99		70.56	ND	3,500	ND	220	ND	75,000
	01/14/98	10.30		72.25	ND[3]	430	ND[3]	100	380	37,000
	07/01/98	11.70		70.85	ND[3]	430	ND[3]	ND[3]	ND[3]	45,000
	DESTROYED									
MW-4										
82.04	04/18/96	9.83	--	72.21	ND	630	ND	ND	ND	18,000
	07/24/96	10.47		71.57	ND	ND	ND	ND	5.2	3,900
	10/24/96	11.14		70.90	ND	ND	ND	ND	ND	6,300
	01/28/97	7.94		74.10	1,200	490	ND	17	6.8	16,000
	07/29/97	10.86		71.18	50	1.5	0.61	0.73	0.78	15,000
	01/14/98	8.73		73.31	ND[3]	ND[3]	ND[3]	ND[3]	ND[3]	5,200
	07/01/98	10.51		71.53	ND	ND	ND	ND	ND	640
	DESTROYED									
MW-5										
81.80	04/18/96	9.65	--	72.15	31,000	5,500	1,400	1,700	8,100	66,000
	07/24/96	10.80		71.00	32,000	6,400	ND	1,600	6,100	120,000
	10/24/96	11.40		70.40	17,000	6,900	ND	970	130	84,000
	01/28/97	7.76		74.04	19,000	6,100	62	82	310	160,000
	07/29/97	11.58		70.22	ND	ND	ND	ND	ND	71,000

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Former Unocal) Service Station #1871

96 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	01/14/98	9.08	--	72.72	ND[3]	3,600	ND[3]	ND[3]	ND[3]	80,000
(cont)	07/01/98	11.25		70.55	6,400	2,100	21	120	330	61,000
	DESTROYED									
MW-6										
78.91	06/18/99	9.30	5.0-25.0	69.61	2,100	21	29	ND[3]	47	97,000/71,000[4]
	01/21/00	9.37		69.54	1,880[5]	143	31.2	106	196	41,200/48,800[4]
	07/10/00	8.94		69.97	5,710[5]	869	209	301	1,430	22,200/19,500[4]
	01/04/01	9.21		69.70	ND	ND	ND	ND	ND	--/9,510[4]
	07/16/01	9.42		69.49	4,800[5]	200	21	150	440	29,000/34,000[4]
	01/31/02	8.50		70.41	12,000[7]	250	92	500	1,500	26,000/31,000[4]
79.67	04/11/02	9.08		70.59	3,600	42	32	39	280	120,000
	07/11/02[8]	9.70		69.97	12,000[9]	<100	<100	<100	<200	15,000
	10/15/02[8]	9.96		69.71	1,300[9]	<10	<10	<10	<20	3,200
	01/14/03[8]	8.31		71.36	<50	<0.50	<0.50	<0.50	<1.0	120
	04/16/03[8]	8.21		71.46	270	<0.50	<0.50	<0.50	1.3	15
	07/16/03[8]	**9.43**		**70.24**	**290**	**39**	**0.60**	**<0.50**	**15**	**150**
MW-7										
79.92	06/18/99	8.70	5.0-25.0	71.22	ND	ND	ND	ND	ND	16,000/13,000[4]
	01/21/00	9.30		70.62	ND[3]	ND[3]	ND[3]	ND[3]	ND[3]	12,300/18,200[4]
	07/10/00	8.72		71.20	ND[3]	ND[3]	ND[3]	ND[3]	ND[3]	16,900/13,800[4]
	01/04/01	9.17		70.75	ND	ND	ND	ND	0.719	--/37.3[4]
	07/16/01	9.02		70.90	ND	ND	ND	ND	ND	7,200/4,700[4]
	01/31/02	7.91		72.01	<50	<0.50	<0.50	<0.50	<0.50	8,900/9,900[4]
80.67	04/11/02	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--
	07/11/02	INACCESSIBLE - TRUCK PARKED OVER WELL				--	--	--	--	--
	10/15/02[8]	9.81		70.86	<5,000[9]	<50	<50	<50	<100	12,000
	01/14/03[8]	7.89		72.78	<25,000	<250	<250	<250	<500	33,000
	04/16/03[8]	8.04		72.63	<25,000	<250	<250	<250	<500	37,000
	07/16/03[8]	**9.19**		**71.48**	**25,000[9]**	**<250**	**<250**	**<250**	**<500**	**38,000**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Former Unocal) Service Station #1871

96 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-8										
80.96	06/18/99	9.10	5.0-25.0	71.86	ND	ND	ND	ND	ND	290/160[4]
	01/21/00	10.00		70.96	ND	ND	ND	ND	1.09	224/221[4]
	07/10/00	7.94		73.02	ND	ND	ND	ND	ND	234/223[4]
	01/04/01	9.76		71.20	3,790[5]	141	8.92	128	375	--/34,200[4]
	07/16/01	9.15		71.81	ND	ND	ND	ND	ND	66/70[4]
	01/31/02	7.99		72.97	5,900[7]	86	<10	630	390	670/700[4]
81.71	04/11/02	9.00		72.71	250	2.0	<0.50	38	2.2	410
	07/11/02[8]	9.60		72.11	110[9]	<0.50	<0.50	<0.50	<1.0	120
	10/15/02[8]	10.60		71.11	<50	<0.50	<0.50	<0.50	<1.0	21
	01/14/03[8]	8.63		73.08	<250	2.6	<2.5	18	<5.0	430
	04/16/03[8]	8.98		72.73	<50	<0.50	<0.50	<0.50	<1.0	18
	07/16/03[8]	**9.63**		**72.08**	**110[9]**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**140**
MW-9										
82.07	01/31/02[6]	14.72	--	67.35	<50	<0.50	<0.50	<0.50	<0.50	680/910[4]
	04/11/02	14.85		67.22	<50	<0.50	<0.50	<0.50	<0.50	620
	07/11/02[8]	15.39		66.68	580[9]	<5.0	<5.0	<5.0	<10	580
	10/15/02[8]	16.16		65.91	570[9]	<5.0	<5.0	<5.0	<10	1,400
	01/14/03[8]	14.75		67.32	<200	<2.0	<2.0	<2.0	<4.0	220
	04/16/03[8]	14.51		67.56	<500	<5.0	<5.0	<5.0	<10	860
	07/16/03[8]	**15.54**		**66.53**	**<2,500**	**<25**	**<25**	**<25**	**<50**	**1,300**
MW-10										
74.98	01/31/02[6]	8.02	--	66.96	<50	<0.50	<0.50	<0.50	<0.50	<5.0/1.2[4]
	04/11/02	7.60		67.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/11/02[8]	8.91		66.07	<50	<0.50	<0.50	<0.50	<1.0	1.1
	10/15/02[8]	11.49		63.49	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	01/14/03[8]	8.47		66.51	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	04/16/03[8]	7.92		67.06	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	07/16/03[8]	**7.03**		**67.95**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Former Unocal) Service Station #1871

96 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-11										
77.31	01/31/02[6]	11.71	--	65.60	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0[4]
	04/11/02	11.95		65.36	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/11/02[8]	12.79		64.52	<50	<0.50	<0.50	<0.50	<1.0	<0.50
	10/15/02[8]	13.67		63.64	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	01/14/03[8]	13.31		64.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	04/16/03[8]	14.08		63.23	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	07/16/03[8]	**12.98**		**64.33**	**65[9]**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**
Trip Blank										
TB-LB	01/14/98	--	--	--	ND	ND	ND	ND	ND	ND
	07/01/98	--		--	ND	ND	ND	ND	ND	ND
	06/18/99	--		--	ND	ND	ND	ND	ND	ND
	01/21/00	--		--	ND	ND	ND	ND	ND	14.6
	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
	01/31/02	--		--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	04/11/02	--		--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	07/11/02[8]	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50
	10/15/02[8]	--		--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	01/14/03[8]	--		--	<50	<0.50	2.1[10]	<0.50	1.1[10]	<2.0
	04/16/03[8]	--		--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	07/16/03[8]	--		--	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Former Unocal) Service Station #1871
96 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 elevation were surveyed by Virgil Chaves Land Surveying on January 15, 2002. Elevations were based on a USGS bronze disc located near the north end of the curb return at the northwest corner of 38th Street and Broadway, Oakland, California, (Benchmark = 85.41 feet NGVD 29).
TOC elevations were re-surveyed by Kier & Wright in May, 1996, per City of Oakland Benchmark No. 2310, a cut square in concrete curb at mid point of return at the northeast corner of El Dorado and Fairmont Street. (Elevation = 77.53 feet msl).

♦ Well elevation has been adjusted up 0.75 feet based on Virgil Chavez Land Survey dated March 5, 2002.

1 Laboratory report indicates the presence of discrete peaks not indicative of gasoline.
2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
3 Detection limit raised. Refer to analytical reports.
4 MTBE by EPA Method 8260.
5 Laboratory report indicates gasoline C6-C12.
6 Well development performed.
7 Laboratory report indicates weathered gasoline C6-C12.
8 TPH-G, BTEX and MTBE by EPA Method 8260.
9 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
10 Laboratory report indicates the trip blank for this set of samples contained detectable levels of Toluene and Xylene. These results were confirmed by the laboratory. Since many of the samples in this set were Not Detect for these compounds, it is not likely that this contamination was introduced in the field.

Table 2

Field Measurements

Tosco (Former Unocal) Service Station #1871

96 MacArthur Boulevard

Oakland, California

WELL ID	DATE	POST FIRST CASING VOLUME PURGE		POST SECOND CASING VOLUME PURGE		POST THIRD CASING VOLUME PURGE	
		D.O. *(mg/L)*	ORP *(mV)*	D.O. *(mg/L)*	ORP *(mV)*	D.O. *(mg/L)*	ORP *(mV)*
MW-1	07/11/02	5.00	122	3.10	118	2.90	116
	10/15/02	6.65	132	5.76	147	5.35	152
	01/14/03	4.64	125	4.66	112	4.71	138
	04/16/03	3.48	1.67	3.64	180	3.70	177
	07/16/03	**1.05**	**175**	**1.10**	**190**	**1.20**	**185**
MW-6	07/11/02	0.70	-17	3.40	13	2.40	12
	10/15/02	7.92	114	6.38	111	5.94	129
	01/14/03	5.51	95	5.50	107	5.11	116
	04/16/03	3.95	133	4.05	147	4.11	142
	07/16/03	**1.45**	**170**	**1.60**	**185**	**1.65**	**190**
MW-7	10/15/02	3.88	121	3.90	156	4.04	152
	01/14/03	2.95	137	2.92	130	3.16	124
	04/16/03	2.65	174	2.80	190	2.78	197
	07/16/03	**1.20**	**205**	**1.25**	**200**	**1.15**	**210**
MW-8	07/11/02	1.10	26	1.60	10	2.40	13
	10/15/02	4.65	218	4.53	241	4.57	231
	01/14/03	5.19	210	4.85	187	4.96	184
	04/16/03	3.12	265	3.23	260	3.30	285
	07/16/03	**1.25**	**215**	**1.20**	**225**	**1.30**	**230**

Table 2

Field Measurements

Tosco (Former Unocal) Service Station #1871
96 MacArthur Boulevard
Oakland, California

WELL ID	DATE	POST FIRST CASING VOLUME PURGE		POST SECOND CASING VOLUME PURGE		POST THIRD CASING VOLUME PURGE	
		D.O. *(mg/L)*	ORP *(mV)*	D.O. *(mg/L)*	ORP *(mV)*	D.O. *(mg/L)*	ORP *(mV)*
MW-9	07/11/02	1.10	10	1.00	11	1.20	15
	10/15/02	2.95	154	2.89	161	3.08	166
	01/14/03	3.81	144	3.47	136	3.53	128
	04/16/03	2.48	97	2.37	104	2.54	101
	07/16/03	**1.10**	**120**	**1.25**	**145**	**1.20**	**150**
MW-10	07/11/02	1.10	36	1.00	31	1.20	24
	10/15/02	6.80	158	6.70	161	6.73	148
	01/14/03	5.54	178	5.18	171	5.21	163
	04/16/03	2.74	123	2.83	116	2.79	130
	07/16/03	**1.35**	**210**	**1.55**	**195**	**1.50**	**205**
MW-11	07/11/02	1.80	419	1.40	400	1.10	391
	10/15/02	4.39	98	4.20	110	4.27	96
	01/14/03	5.42	120	5.31	147	5.36	138
	04/16/03	3.37	184	3.50	191	3.48	190
	07/16/03	**1.60**	**195**	**1.80**	**205**	**1.70**	**210**

EXPLANATIONS:

D.O. = Dissolved Oxygen
(mg/L) = Milligrams per liter
ORP = Oxidation Reduction Potential
(mV) = Millivolts

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Former Unocal) Service Station #1871

96 MacArthur Boulevard

Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
MW-1	06/18/99	ND[1]	ND[1]	47,000	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/10/00	--	--	54,000	--	--	--	--	--
	01/04/01	--	--	38,100	--	--	--	--	--
	07/16/01	ND[1]	ND[1]	41,000	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/31/02	--	--	26,000	--	--	--	--	--
	07/11/02	--	--	3,400	--	--	--	--	--
	10/15/02	--	--	390	--	--	--	--	--
	01/14/03	<500	<100	49	<2.0	<2.0	<2.0	<2.0	<2.0
	04/16/03	--	--	160	--	--	--	--	--
	07/16/03	**<10,000**	--	**1,200**	--	--	--	--	--
MW-6	06/18/99	ND[1]	ND[1]	71,000	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/21/00	--	--	48,800	--	--	--	--	--
	07/10/00	--	--	19,500	--	--	--	--	--
	01/04/01	--	--	9,510	--	--	--	--	--
	07/16/01	ND[1]	ND[1]	34,000	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/31/02	--	--	31,000	--	--	--	--	--
	07/11/02	<5,000	<1,000	15,000	<200	<100	<100	<100	<100
	10/15/02	--	--	3,200	--	--	--	--	--
	01/14/03	<500	<100	120	<2.0	<2.0	<2.0	<2.0	<2.0
	04/16/03	--	--	15	--	--	--	--	--
	07/16/03	**<500**	--	**150**	--	--	--	--	--
MW-7	06/18/99	ND[1]	ND[1]	13,000	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/21/00	--	--	18,200	--	--	--	--	--
	07/10/00	--	--	13,800	--	--	--	--	--
	01/04/01	--	--	37.3	--	--	--	--	--
	07/16/01	ND[1]	ND[1]	4,700	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/31/02	--	--	9,900	--	--	--	--	--
	07/11/02	INACCESSIBLE - TRUCK PARKED OVER WELL				--	--	--	--
	10/15/02	--	--	12,000	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Former Unocal) Service Station #1871

96 MacArthur Boulevard

Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
MW-7	01/14/03	<250,000	<50,000	33,000	<1,000	<1,000	<1,000	<1,000	<1,000
(cont)	04/16/03	--	--	37,000	--	--	--	--	--
	07/16/03	**<250,000**	**--**	**38,000**	**--**	**--**	**--**	**--**	**--**
MW-8	06/18/99	ND[1]	ND[1]	160	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/21/00	--	--	221	--	--	--	--	--
	07/10/00	--	--	223	--	--	--	--	--
	01/04/01	--	--	34,200	--	--	--	--	--
	07/16/01	ND	ND	70	ND	ND	ND	ND	ND
	01/31/02	--	--	700	--	--	--	--	--
	07/11/02	--	--	120	--	--	--	--	--
	10/15/02	--	--	21	--	--	--	--	--
	01/14/03	<2,500	<500	430	<10	<10	<10	<10	<10
	04/16/03	--	--	18	--	--	--	--	--
	07/16/03	**<500**	**--**	**140**	**--**	**--**	**--**	**--**	**--**
MW-9	01/31/02	<3,600	<140	910	<7.1	<7.1	<7.1	<7.1	<7.1
	07/11/02	--	--	580	--	--	--	--	--
	10/15/02	--	--	1,400	--	--	--	--	--
	01/14/03	<2,000	<400	220	<8.0	<8.0	<8.0	<8.0	<8.0
	04/16/03	--	--	860	--	--	--	--	--
	07/16/03	**<25,000**	**--**	**1,300**	**--**	**--**	**--**	**--**	**--**
MW-10	01/31/02	<500	<20	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
	07/11/02	--	--	1.1	--	--	--	--	--
	10/15/02	--	--	<2.0	--	--	--	--	--
	01/14/03	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	04/16/03	--	--	<2.0	--	--	--	--	--
	07/16/03	**<500**	**--**	**<2.0**	**--**	**--**	**--**	**--**	**--**

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Former Unocal) Service Station #1871

96 MacArthur Boulevard

Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
MW-11	01/31/02	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/11/02	--	--	<0.50	--	--	--	--	--
	10/15/02	--	--	<2.0	--	--	--	--	--
	01/14/03	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	04/16/03	--	--	<2.0	--	--	--	--	--
	07/16/03	**<500**	--	**<2.0**	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Former Unocal) Service Station #1871
96 MacArthur Boulevard
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
EDB = 1,2-Dibromoethane
1,2-DCA = 1,2-Dichloroethane
(ppb) = Parts per billion
-- = Not Analyzed
ND = Not Detected

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 4

Groundwater Analytical Results

Tosco (Former Unocal) Service Station #1871
96 MacArthur Boulevard
Oakland, California

WELL ID	DATE	TPH-D (ppb)	TOG (ppb)	HVOC (ppb)	SVOC (ppb)
MW-1	06/18/99	--	--	ND	--
MW-4	04/18/96	110[1]	ND	ND	--
	07/24/96	ND	ND	ND	ND
	10/24/96	ND	ND	ND	ND[2]
	01/28/97	210[3]	ND	ND	ND[4]
	07/29/97	ND	ND	ND	ND
	01/14/98	ND	ND	ND	ND
	07/01/98	ND	ND	ND	ND
	DESTROYED				
MW-6	06/18/99	--	--	ND	--
MW-7	06/18/99	--	--	ND	--
MW-8	06/18/99	--	--	ND	ND[5]

EXPLANATIONS:

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

TPH-D = Total Petroleum Hydrocarbons as Diesel
TOG = Total Oil and Grease
HVOC = Halogenated Volatile Organic Compounds by EPA Method 8010
SVOC = Semi-Volatile Organic Compounds by EPA Method 8270
(ppb) = Parts per billion
-- = Not Analyzed
ND = Not Detected

1 Laboratory report indicates the hydrocarbons detected did not appear to contain diesel.
2 Bis (2-ethylhexyl) phthalate was detected at a concentration of 14 ppb.
3 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
4 Naphthalene was detected at a concentration of 17 ppb.
5 All SVOCs were ND except for Bis(2-ethylhexy)phthalate at 11 ppb.

All EPA Method 8010 and 8270 constituents were ND, unless noted.

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 #1871 Job Number: 180068
Site Address: 96 Macarthur Event Date: 7/16/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-1 Date Monitored: 7/16/03 Well Condition: OK
Well Diameter 2 1(4) in.
Total Depth 24.08 ft.
Depth to Water 14.26 ft.
9.82 xVF 0.66 = 6.48 x3 (case volume) = Estimated Purge Volume: 19.5 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): 1057 Weather Conditions: Clear
Sample Time/Date: 1130 7/16/03 Water Color: brown Odor:
Purging Flow Rate: 1.5 gpm. Sediment Description: SLT
Did well de-water? Y If yes, Time: 1107/1112 Volume: 13.5 gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1101	6.5	7.39	567	68.1	1.05	175
1107	13	7.24	560	68.6	1.10	190
1120	15	7.24	554	69.1	1.20	185

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/ETHANOL(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1871 Job Number: 180068
Site Address: 96 Macarthur Event Date: 7/16/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-6 Date Monitored: 7/16/03 Well Condition: OK
Well Diameter (2) 4 in.
Total Depth 24.73 ft.
Depth to Water 9.43 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

15.30 xVF 0.17 = 2.60 x3 (case volume) = Estimated Purge Volume: 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: 0 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): 0912 Weather Conditions: clear
Sample Time/Date: 0950 7/16/03 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 (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
0920	2.5	7.61	673	66.4	1.45	170
0929	5	7.47	670	66.8	1.60	185
0940	8	7.43	664	67.1	1.65	190

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/ETHANOL(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1871 Job Number: 180068
Site Address: 96 Macarthur Event Date: 7/16/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-7 Date Monitored: 7/16/03 Well Condition: OK
Well Diameter (2) 4 in.
Total Depth 24.50 ft.
Depth to Water 9.19 ft.
15.31 xVF 0.17 = 2.60 x3 (case volume) = Estimated Purge Volume: 8 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): 0815 Weather Conditions: cldy
Sample Time/Date: 0850 7/16/03 Water Color: clear Odor:
Purging Flow Rate: gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0822	2.5	7.63	713	65.6	1.20	205
0831	5	7.50	704	65.9	1.25	200
0841	8	7.46	698	66.2	1.15	210

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/ETHANOL(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1871 Job Number: 180068
Site Address: 96 Macarthur Event Date: 7/16/03 (inclusive)
City: Oakland, CA Sampler: VanTkes

Well ID MW-8 Date Monitored: 7/16/03 Well Condition: OK
Well Diameter (2) 4 in.
Total Depth 24.81 ft.
Depth to Water 9.63 ft.
15.18 xVF 0.17 = 2.58 x3 (case volume) = Estimated Purge Volume: 8 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: 0 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): 1008 Weather Conditions: clear
Sample Time/Date: 1040 7/16/03 Water Color: clear Odor:
Purging Flow Rate: 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)
1015	2.5	7.63	607	65.8	1.25	215
1025	5	7.50	596	66.4	1.20	225
1034	8	7.47	593	66.6	1.30	230

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/ETHANOL(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1871 Job Number: 180068
Site Address: 96 Macarthur Event Date: 7/16/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-9 Date Monitored: 7/16/03 Well Condition: ok
Well Diameter (2) 4 in.
Total Depth 19.91 ft.
Depth to Water 15.54 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

4.37 xVF 0.17 = 0.74 x3 (case volume) = Estimated Purge Volume: 2.5 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: 0 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): 1142 Weather Conditions: clear
Sample Time/Date: 1210 / 7/16/03 Water Color: brn Odor:
Purging Flow Rate: gpm. Sediment Description: Slt
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)
1146	1	7.70	623	65.2	1.10	120
1154	2	7.57	617	65.7	1.25	145
1200	2.5	7.51	614	65.9	1.20	150

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/ETHANOL(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1871 Job Number: 180068
Site Address: 96 Macarthur Event Date: 7/16/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-10 Date Monitored: 7/16/03 Well Condition: OK
Well Diameter (2) 4 in.
Total Depth 19.98 ft.
Depth to Water 7.03 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

12.95 xVF 0.17 = 2.20 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): 1320 Weather Conditions: clear
Sample Time/Date: ~~1330~~ 7/16/03 Water Color: clear Odor:
Purging Flow Rate: 1.50 gpm. Sediment Description:
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)
1325	2	7.54	644	65.9	1.35	210
1334	4	7.43	641	65.6	1.55	195
1343	6.5	7.40	639	65.2	1.50	205

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/ETHANOL(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1871 Job Number: 180068
Site Address: 96 Macarthur Event Date: 7/16/03 (inclusive)
City: Oakland, CA Sampler: Vartkes

Well ID MW-11 Date Monitored: 7/16/03 Well Condition: OK
Well Diameter (2) 4 in.
Total Depth 30.08 ft.
Depth to Water 12.98 ft.
17.10 xVF 0.17 = 2.90 x3 (case volume) = Estimated Purge Volume: 9 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: 0 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): 1358 Weather Conditions: clear
Sample Time/Date: 1435 7/16/03 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)
1421	3	7.50	739	66.7	1.60	195
1424	6	7.40	728	67.2	1.80	205
1427	9	7.42	723	67.5	1.70	210

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	3x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/ETHANOL(8260)

COMMENTS:

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

2003.01.0024

Gettler-Ryan Inc., Chain-of-Custody

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

Facility Number #1871
Facility Address 96 MACARTHUR, OAKLAND, CA
Global ID T0600101493 Project 180068.80
Client Contact MR. DAVID B. 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 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	ETHANOL @ 8260				Remarks
QA	1 W	HCl	7/16/03					X													6.0°C
MW-1	3 "	"	" 1130					X									X				
MW-6	3 "	"	" 0950					X									X				
MW-7	3 "	"	" 0850					X									X				
MW-8	3 "	"	" 1040					X									X				
MW-9	3 "	"	" 1210					X									X				
MW-10	3 "	"	" 1250					X									X				
MW-11	3 "	"	" 1335					X									X				

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]	G-R.	7/17/03 1310	[signature]	G-R	7/17/03 1310	
[signature]	G-R	7/18/03 0815	595 MIKE - WORLD	STL	18 1001	
595 MIKE		7/18/03 1550	[signature]		7/18/03 1550	

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

FILE NAME: P:\ENVIRO\T-OAKLAND\1000\STD-COC.DWG [Layout: Tosco Master]

SEVERN TRENT STL

Submission#: 2003-07-0634

August 06, 2003

Gettler Ryan

6747 Sierra Court Suite J
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180068.80
Project: Conoco 1871
Site: 96 Macarthur, Oakland

Dear Ms. Harding,

Attached is our report for your samples received on 07/18/2003 15:50
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 09/01/2003 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 #: 2003-07-0634

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	07/16/2003	Water	1
MW-1	07/16/2003 11:30	Water	2
MW-6	07/16/2003 09:50	Water	3
MW-7	07/16/2003 08:50	Water	4
MW-8	07/16/2003 10:40	Water	5
MW-9	07/16/2003 12:10	Water	6
MW-10	07/16/2003 12:50	Water	7
MW-11	07/16/2003 13:35	Water	8

SEVERN TRENT STL

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **QA**
Sampled: 07/16/2003
Matrix: Water

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 1
Extracted: 7/29/2003 11:43
QC Batch#: 2003/07/29-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/29/2003 11:43	
Benzene	ND	0.50	ug/L	1.00	07/29/2003 11:43	
Toluene	ND	0.50	ug/L	1.00	07/29/2003 11:43	
Ethylbenzene	ND	0.50	ug/L	1.00	07/29/2003 11:43	
Total xylenes	ND	1.0	ug/L	1.00	07/29/2003 11:43	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	07/29/2003 11:43	
Surrogates(s)						
1,2-Dichloroethane-d4	85.0	76-114	%	1.00	07/29/2003 11:43	
Toluene-d8	98.5	88-110	%	1.00	07/29/2003 11:43	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **MW-1**
Sampled: 07/16/2003 11:30
Matrix: Water
Analysis Flag: o (See Legend and Note Section)

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 2
Extracted: 7/29/2003 14:14
QC Batch#: 2003/07/29-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	27000	1000	ug/L	20.00	07/29/2003 14:14	
Benzene	260	10	ug/L	20.00	07/29/2003 14:14	
Toluene	23	10	ug/L	20.00	07/29/2003 14:14	
Ethylbenzene	730	10	ug/L	20.00	07/29/2003 14:14	
Total xylenes	3200	20	ug/L	20.00	07/29/2003 14:14	
Methyl tert-butyl ether (MTBE)	1200	40	ug/L	20.00	07/29/2003 14:14	
Ethanol	ND	10000	ug/L	20.00	07/29/2003 14:14	
Surrogates(s)						
1,2-Dichloroethane-d4	100.6	76-114	%	20.00	07/29/2003 14:14	
Toluene-d8	100.5	88-110	%	20.00	07/29/2003 14:14	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **MW-6**
Sampled: 07/16/2003 09:50
Matrix: Water

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 3
Extracted: 7/29/2003 14:37
QC Batch#: 2003/07/29-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	290	50	ug/L	1.00	07/29/2003 14:37	
Benzene	39	0.50	ug/L	1.00	07/29/2003 14:37	
Toluene	0.60	0.50	ug/L	1.00	07/29/2003 14:37	
Ethylbenzene	ND	0.50	ug/L	1.00	07/29/2003 14:37	
Total xylenes	15	1.0	ug/L	1.00	07/29/2003 14:37	
Methyl tert-butyl ether (MTBE)	150	2.0	ug/L	1.00	07/29/2003 14:37	
Ethanol	ND	500	ug/L	1.00	07/29/2003 14:37	
Surrogates(s)						
1,2-Dichloroethane-d4	102.7	76-114	%	1.00	07/29/2003 14:37	
Toluene-d8	102.8	88-110	%	1.00	07/29/2003 14:37	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **MW-7**
Sampled: 07/16/2003 08:50
Matrix: Water
Analysis Flag: o (See Legend and Note Section)

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 4
Extracted: 7/30/2003 10:40
QC Batch#: 2003/07/30-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	25000	25000	ug/L	500.00	07/30/2003 10:40	g
Benzene	ND	250	ug/L	500.00	07/30/2003 10:40	
Toluene	ND	250	ug/L	500.00	07/30/2003 10:40	
Ethylbenzene	ND	250	ug/L	500.00	07/30/2003 10:40	
Total xylenes	ND	500	ug/L	500.00	07/30/2003 10:40	
Methyl tert-butyl ether (MTBE)	38000	1000	ug/L	500.00	07/30/2003 10:40	
Ethanol	ND	250000	ug/L	500.00	07/30/2003 10:40	
Surrogates(s)						
1,2-Dichloroethane-d4	104.2	76-114	%	500.00	07/30/2003 10:40	
Toluene-d8	103.7	88-110	%	500.00	07/30/2003 10:40	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **MW-8**
Sampled: 07/16/2003 10:40
Matrix: Water

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 5
Extracted: 7/30/2003 11:02
QC Batch#: 2003/07/30-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	07/30/2003 11:02	g
Benzene	ND	0.50	ug/L	1.00	07/30/2003 11:02	
Toluene	ND	0.50	ug/L	1.00	07/30/2003 11:02	
Ethylbenzene	ND	0.50	ug/L	1.00	07/30/2003 11:02	
Total xylenes	ND	1.0	ug/L	1.00	07/30/2003 11:02	
Methyl tert-butyl ether (MTBE)	140	2.0	ug/L	1.00	07/30/2003 11:02	
Ethanol	ND	500	ug/L	1.00	07/30/2003 11:02	
Surrogates(s)						
1,2-Dichloroethane-d4	93.4	76-114	%	1.00	07/30/2003 11:02	
Toluene-d8	100.9	88-110	%	1.00	07/30/2003 11:02	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **MW-9**
Sampled: 07/16/2003 12:10
Matrix: Water
Analysis Flag: o (See Legend and Note Section)

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 6
Extracted: 7/30/2003 11:24
QC Batch#: 2003/07/30-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2500	ug/L	50.00	07/30/2003 11:24	
Benzene	ND	25	ug/L	50.00	07/30/2003 11:24	
Toluene	ND	25	ug/L	50.00	07/30/2003 11:24	
Ethylbenzene	ND	25	ug/L	50.00	07/30/2003 11:24	
Total xylenes	ND	50	ug/L	50.00	07/30/2003 11:24	
Methyl tert-butyl ether (MTBE)	1300	100	ug/L	50.00	07/30/2003 11:24	
Ethanol	ND	25000	ug/L	50.00	07/30/2003 11:24	
Surrogates(s)						
1,2-Dichloroethane-d4	99.4	76-114	%	50.00	07/30/2003 11:24	
Toluene-d8	101.9	88-110	%	50.00	07/30/2003 11:24	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **MW-10**
Sampled: 07/16/2003 12:50
Matrix: Water

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 7
Extracted: 7/29/2003 16:06
QC Batch#: 2003/07/29-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/29/2003 16:06	
Benzene	ND	0.50	ug/L	1.00	07/29/2003 16:06	
Toluene	ND	0.50	ug/L	1.00	07/29/2003 16:06	
Ethylbenzene	ND	0.50	ug/L	1.00	07/29/2003 16:06	
Total xylenes	ND	1.0	ug/L	1.00	07/29/2003 16:06	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	07/29/2003 16:06	
Ethanol	ND	500	ug/L	1.00	07/29/2003 16:06	
Surrogates(s)						
1,2-Dichloroethane-d4	101.3	76-114	%	1.00	07/29/2003 16:06	
Toluene-d8	104.8	88-110	%	1.00	07/29/2003 16:06	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Prep(s): 5030B
Sample ID: **MW-11**
Sampled: 07/16/2003 13:35
Matrix: Water

Test(s): 8260FAB
Lab ID: 2003-07-0634 - 8
Extracted: 7/29/2003 16:29
QC Batch#: 2003/07/29-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	65	50	ug/L	1.00	07/29/2003 16:29	g
Benzene	ND	0.50	ug/L	1.00	07/29/2003 16:29	
Toluene	ND	0.50	ug/L	1.00	07/29/2003 16:29	
Ethylbenzene	ND	0.50	ug/L	1.00	07/29/2003 16:29	
Total xylenes	ND	1.0	ug/L	1.00	07/29/2003 16:29	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	07/29/2003 16:29	
Ethanol	ND	500	ug/L	1.00	07/29/2003 16:29	
Surrogates(s)						
1,2-Dichloroethane-d4	100.7	76-114	%	1.00	07/29/2003 16:29	
Toluene-d8	107.0	88-110	%	1.00	07/29/2003 16:29	

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: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/07/29-1C.62-053

Water

Test(s): 8260FAB
QC Batch # 2003/07/29-1C.62
Date Extracted: 07/29/2003 10:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/29/2003 10:14	
Benzene	ND	0.5	ug/L	07/29/2003 10:14	
Toluene	ND	0.5	ug/L	07/29/2003 10:14	
Ethylbenzene	ND	0.5	ug/L	07/29/2003 10:14	
Total xylenes	ND	1.0	ug/L	07/29/2003 10:14	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	07/29/2003 10:14	
Ethanol	ND	500	ug/L	07/29/2003 10:14	
Surrogates(s)					
1,2-Dichloroethane-d4	83.8	76-114	%	07/29/2003 10:14	
Toluene-d8	104.8	88-110	%	07/29/2003 10:14	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/07/30-1A.62-012

Water

Test(s): 8260FAB
QC Batch # 2003/07/30-1A.62
Date Extracted: 07/30/2003 10:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/30/2003 10:12	
Benzene	ND	0.5	ug/L	07/30/2003 10:12	
Toluene	ND	0.5	ug/L	07/30/2003 10:12	
Ethylbenzene	ND	0.5	ug/L	07/30/2003 10:12	
Total xylenes	ND	1.0	ug/L	07/30/2003 10:12	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	07/30/2003 10:12	
Ethanol	ND	500	ug/L	07/30/2003 10:12	
Surrogates(s)					
1,2-Dichloroethane-d4	93.0	76-114	%	07/30/2003 10:12	
Toluene-d8	107.9	88-110	%	07/30/2003 10:12	

Gas/BTEX Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/07/29-1C.62

LCS 2003/07/29-1C.62-030 Extracted: 07/29/2003 Analyzed: 07/29/2003 09:30

LCSD 2003/07/29-1C.62-052 Extracted: 07/29/2003 Analyzed: 07/29/2003 09:52

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	26.6	29.1	25	106.4	116.4	9.0	69-129	20		
Toluene	26.4	28.0	25	105.6	112.0	5.9	70-130	20		
Methyl tert-butyl ether (MTBE)	22.7	26.2	25	90.8	104.8	14.3	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	430	436	500	86.0	87.2		76-114			
Toluene-d8	513	513	500	102.6	102.6		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/07/30-1A.62**

LCS 2003/07/30-1A.62-027 Extracted: 07/30/2003 Analyzed: 07/30/2003 09:27
LCSD 2003/07/30-1A.62-049 Extracted: 07/30/2003 Analyzed: 07/30/2003 09:49

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	25.4	28.0	25	101.6	112.0	9.7	69-129	20		
Toluene	25.2	28.0	25	100.8	112.0	10.5	70-130	20		
Methyl tert-butyl ether (MTBE)	27.1	28.1	25	108.4	112.4	3.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	483	473	500	96.6	94.6		76-114			
Toluene-d8	512	521	500	102.4	104.2		88-110			

SEVERN TRENT STL

Submission #: 2003-07-0634

Gas/BTEX Fuel Oxygenates by 8260B

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

Project: 180068.80
Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

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

mso

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

Severn Trent Laboratories, Inc.
STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

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Conoco 1871

Received: 07/18/2003 15:50

Site: 96 Macarthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Matrix Spike (MS / MSD) **Water** **QC Batch # 2003/07/29-1C.62**

MW-6 >> MS

Lab ID: 2003-07-0634 - 003

MS: 2003/07/29-1C.62-056 Extracted: 07/29/2003 Analyzed: 07/29/2003 20:56

Dilution: 1.00

MSD: 2003/07/29-1C.62-018 Extracted: 07/29/2003 Analyzed: 07/29/2003 21:18

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	64.6	65.4	39.0	25	102.4	105.6	3.1	69-129	20		
Toluene	30.8	26.9	0.600	25	120.8	105.2	13.8	70-130	20		
Methyl tert-butyl ether	187	177	151	25	144.0	104.0	32.3	65-165	20		mso
Surrogate(s)											
1,2-Dichloroethane-d4	523	495		500	104.5	99.0		76-114			
Toluene-d8	525	521		500	105.0	104.2		88-110			