

R0409
Alameda County

AUG 27 2003



GETTLER-RYAN INC.

Environmental Health

TRANSMITTAL

August 11, 2003
G-R #180225

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

CC: Mr. Paul Blank
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California

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

RE: **Tosco 76 Service Station
#1156
4276 MacArthur Boulevard
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 4, 2003	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 7, 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 25, 2003**, this report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502
Mr. Bob Hale, Alameda County Public Works Agency, Water Resources Section, 951 Turner Court, Suite 300, Hayward, CA 94545

Enclosure



GETTLER-RYAN INC.

Alameda County

AUG 27 2003

Environmental Health

August 4, 2003
G-R Job #180225

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

RE: Third Quarter Event of July 7, 2003
Groundwater Monitoring & Sampling Report
Tosco 76 Service Station #1156
4276 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). A joint groundwater monitoring event was conducted with the Shell Service Station, located at 4255 MacArthur Boulevard, Oakland, California.

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 of 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

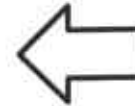
Robert C. Mallory
Registered Geologist, No. 7285



- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results
- Table 3: Groundwater Analytical Results
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports
Joint Groundwater Monitoring Data and Analytical Results (Provided by Blaine Tech Services, Inc.)

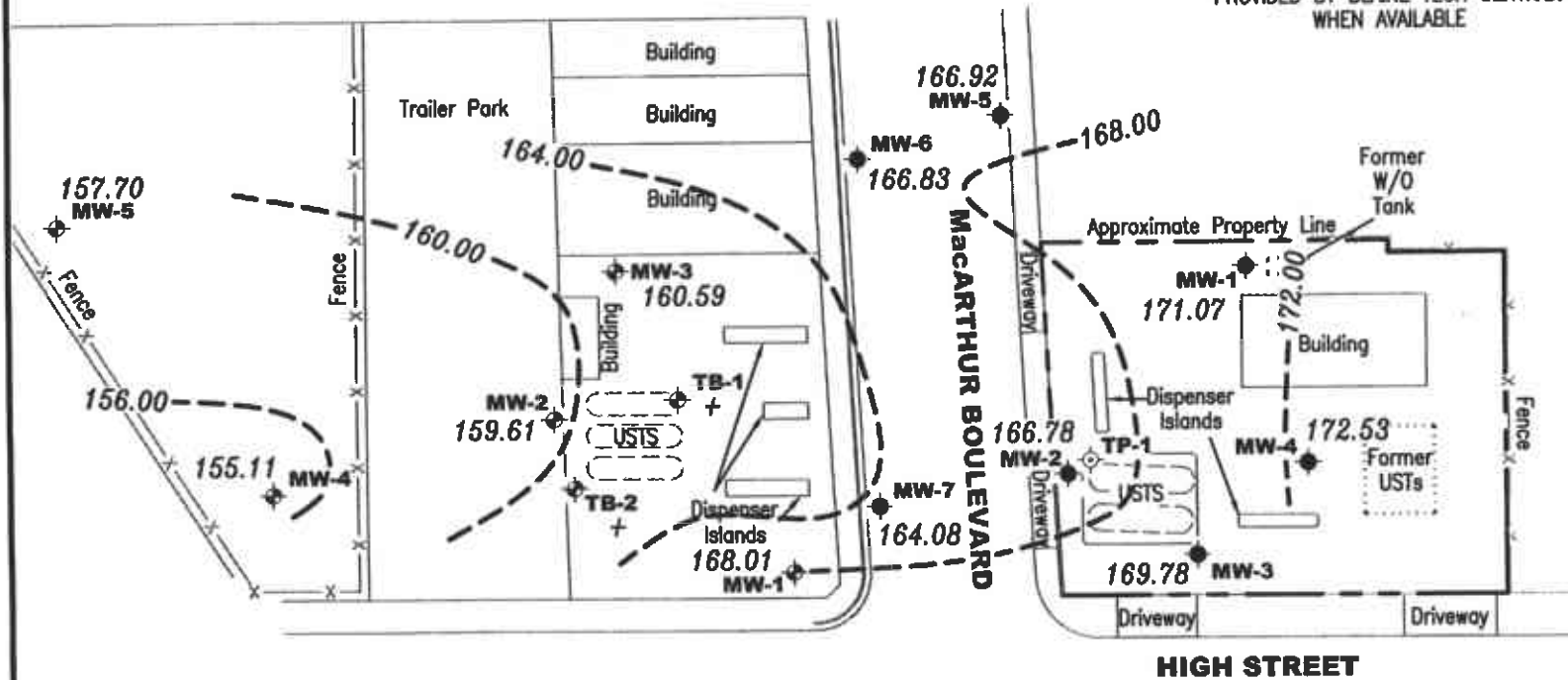
EXPLANATION

- ◆ Groundwater monitoring well (Tosco) 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- ◆ Groundwater monitoring well (Shell) - - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- ⊕ Tank Pit Backfill Well + TOC not available



Approximate groundwater flow direction at a gradient of 0.05 to 0.09 Ft./Ft.

JOINT MONITORING/SAMPLING DATA PROVIDED BY BLAINE TECH SERVICES WHEN AVAILABLE



Source: Figure modified from drawing provided by Environmental Resolutions Inc.

GETTLER - RYAN INC.
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 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

FIGURE

1

PROJECT NUMBER
180225

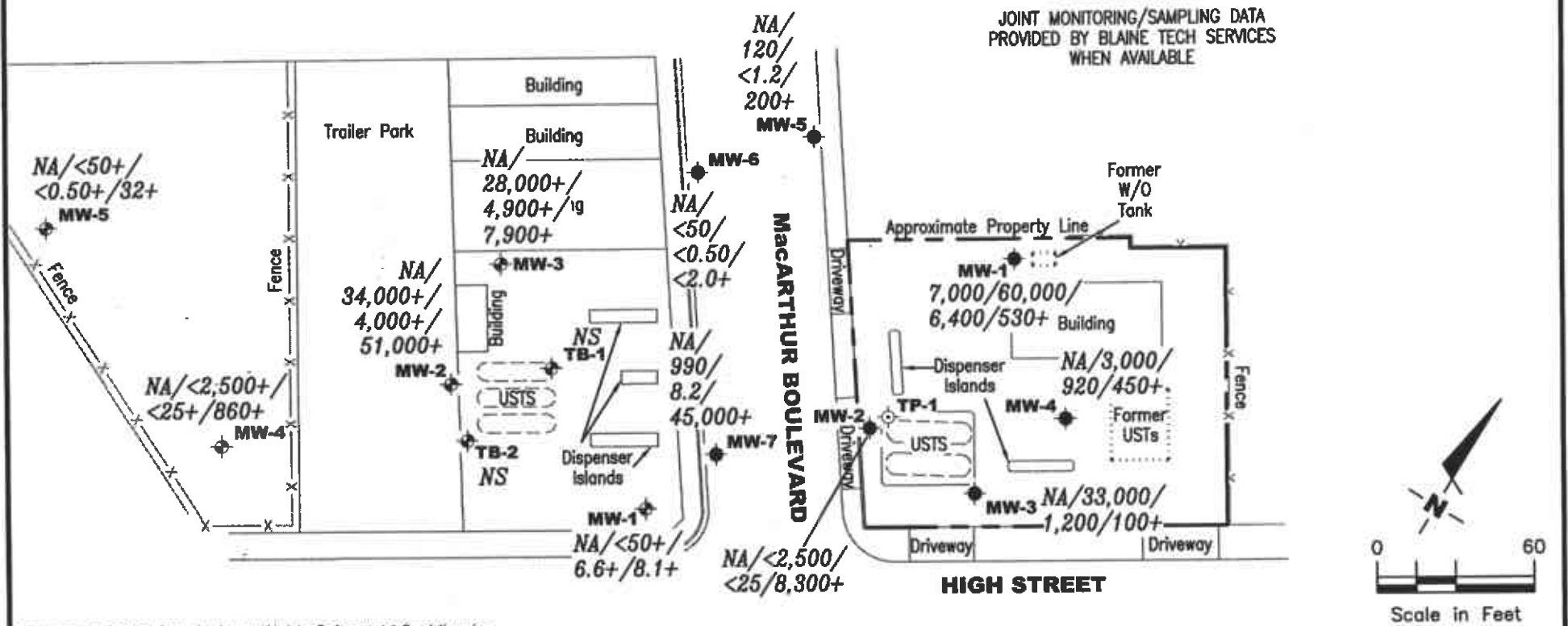
REVIEWED BY

DATE
July 7, 2003

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well (Tosco) *A/B/C/D* Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Gasoline/Benzene/MTBE concentrations in ppb + Analysis by EPA Method 8260
- ◆ Groundwater monitoring well (Shell) *NS* Not Sampled
- ◆ Tank Pit Backfill Well *NA* Not Analyzed



Source: Figure modified from drawing provided by Environmental Resolutions Inc.

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CONCENTRATION MAP
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

FIGURE
2

PROJECT NUMBER 180225	REVIEWED BY	DATE July 7, 2003	REVISED DATE
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Table 1
Groundwater Monitoring Data and Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1												
174.86	07/20/99 ⁵	7.50	5.0-25.0	167.36	--	16,000 ²	120,000	11,000	27,000	3,300	18,000	ND ¹
	09/28/99	8.75		166.11	<0.01	2,410 ²	6,020 ⁶	1,030	1,040	68.5	412	321/333 ³
	01/07/00	9.05		165.83**	0.02	7,870 ^{2,4}	72,700 ⁶	7,410	13,900	2,070	9,620	ND ¹
	03/31/00	7.18		167.68	0.00	3,600 ²	92,000 ⁶	10,000	23,000	3,200	14,000	ND ¹
	07/14/00	7.68		167.18	0.00	8,580 ²	108,000 ⁶	8,250	18,700	3,750	17,800	ND ¹
	10/03/00	7.99		166.87	0.00	9,260 ²	96,000 ⁶	8,760	20,000	3,350	15,600	ND ¹
	01/03/01	9.18		165.68	0.00	11,000 ⁸	37,000 ⁶	5,800	13,000	1,700	8,100	2,200
	04/04/01	8.05		166.81	0.00	14,000 ⁸	86,900 ⁶	7,780	18,500	2,470	11,800	¹ ND/481 ³
	07/17/01	7.01		167.85	0.00	2,200 ⁸	79,000 ⁶	5,600	11,000	2,800	12,000	¹ ND/230 ³
177.54	10/03/01	7.89		169.65	0.00	--	99,000 ⁶	8,200	18,000	3,000	16,000	<2,500
	10/05/01	7.91		169.63	0.00	13,000 ²	--	--	--	--	--	--
	01/28/02	5.98		171.56	0.00	4,400 ¹¹	110,000 ¹²	8,900	19,000	2,600	12,000	3,000/440 ³
	04/25/02	6.19		171.35	0.00	9,000 ¹³	93,000	8,100	18,000	3,000	15,000	810/670 ³
	07/18/02	6.99		170.55	0.00	9,200 ¹³	69,000	5,400	10,000	2,100	10,000	<500/620 ³
	10/07/02	7.73		169.81	0.00	3,400	82,000	9,200	20,000	2,600	13,000	1,300/760 ³
	01/06/03	5.48		172.06	0.00	5,100 ¹³	82,000	6,500	18,000	2,700	11,000	<1,000/790 ^{3,4}
	04/07/03	6.30		171.24	0.00	2,800 ¹³	74,000	7,000	15,000	2,400	11,000	1,000/800 ³
	07/07/03	6.47		171.07	0.00	7,000 ¹³	60,000 ⁷	6,400 ⁷	11,000 ⁷	2,600 ⁷	11,000 ⁷	⁷ 600/530 ³
MW-2												
173.01	07/20/99	5.40	5.0-25.0	167.61	--	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	4,500/11,000 ^{3,4}
	09/28/99	5.60		167.41	0.00	--	1,390 ⁶	124	ND ¹	62.9	43.1	5,280/6,150 ³
	01/07/00	5.92		167.09	0.00	--	1,450 ⁶	99.0	ND ¹	23.8	16.0	33,100
	03/31/00	5.23		167.78	0.00	--	ND ¹	42	ND ¹	ND ¹	ND ¹	17,000
	07/14/00	5.52		167.49	0.00	--	ND ¹	44.7	ND ¹	ND ¹	ND ¹	66,500
	10/03/00	6.04		166.97	0.00	--	ND ¹	56.7	ND ¹	ND ¹	ND ¹	57,500
	01/03/01	6.42		166.59	0.00	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	49,000

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	04/04/01	6.14	5.0-25.0	166.87	0.00	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	38,700/37,800 ³
(cont)	07/17/01	5.30		167.71	0.00	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	65,000/56,000 ³
173.50	10/03/01	7.38		166.12	0.00	--	<250	2.7	<2.5	<2.5	<2.5	14,000/18,000 ³
	01/28/02	5.68		167.82	0.00	--	<250	2.5	4.4	2.8	7.4	11,000/10,000 ³
	04/25/02	5.82		167.68	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	8,400/8,100 ³
	07/18/02	6.90		166.60	0.00	--	<500	<5.0	<5.0	<5.0	<5.0	4,300/8,800 ³
	10/07/02	7.54		165.96	0.00	--	4,300	<10	27	21	75	7,100/5,900 ³
	01/06/03	6.79		166.71	0.00	--	5,900	<5.0	<5.0	<5.0	<5.0	31,000/35,000 ³
	04/07/03	6.49		167.01	0.00	--	1,500	<10	14	11	38	2,000/1,500 ³
	07/07/03	6.72		166.78	0.00	--	<2,500 ¹⁵	<25	<25	<25	<25	5,500/8,300 ^{3,14}
MW-3												
178.44	07/20/99	8.50	5.0-25.0	169.94	--	--	1,000	76	52	79	76	330
	09/28/99	8.31		170.13	0.00	--	1,860 ⁶	174	95.4	71.8	135	443/288 ³
	01/07/00	8.56		169.88	0.00	--	28,400 ⁶	2,450	3,090	1,560	3,910	1,940
	03/31/00	8.42		170.02	0.00	--	26,000 ⁶	1,300	2,900	2,600	3,500	2,800
	07/14/00	8.61		169.83	0.00	--	24,500 ⁶	1,850	2,630	2,750	3,900	548
	10/03/00	9.14		169.30	0.00	--	22,000 ⁶	1,910	2,020	2,400	2,680	965
	01/03/01	9.06		169.38	0.00	--	14,000 ⁶	1,600	1,100	2,300	1,400	3,300
	04/04/01	8.98		169.46	0.00	--	19,600 ⁶	1,150	1,470	2,100	1,820	1,050/450 ³
	07/17/01	7.46		170.98	0.00	--	26,000 ⁶	1,500	2,100	2,100	3,400	¹ ND/350 ³
178.13	10/03/01	9.81		168.32	0.00	--	22,000 ⁶	830	1,900	1,700	3,000	<1,000
	01/28/02	7.39		170.74	0.00	--	30,000 ¹²	880	2,600	1,800	4,300	3,200/210 ³
	04/25/02	7.86		170.27	0.00	--	18,000	500	2,000	1,300	3,800	500/260 ³
	07/18/02	8.83		169.30	0.00	--	37,000	1,800	3,800	2,200	8,000	<250/270 ³
	10/07/02	9.71		168.42	0.00	--	26,000	600	2,000	1,800	6,400	<120/<200 ³

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MW-3	01/06/03	7.40	5.0-25.0	170.73	0.00	--	27,000	800	2,100	2,000	6,400	440/110 ³
(cont)	04/07/03	8.17		169.96	0.00	--	28,000	660	2,200	1,900	6,300	440/100 ³
	07/07/03	8.35		169.78	0.00	--	33,000	1,200	2,500	2,700	8,300	280/100 ³
MW-4												
179.10	07/20/99	7.40	5.0-25.0	171.70	--	--	69	2.7	0.77	ND	7.1	100
	09/28/99	7.19		171.91	0.00	--	4,050 ⁶	1,250	72.0	51.3	133	416/459 ³
	01/07/00	8.98		170.12	0.00	--	7,010 ⁶	2,260	167	271	276	764
	03/31/00	7.26		171.84	0.00	--	5,500 ⁶	1,800	230	330	400	1,000
	07/14/00	7.67		171.43	0.00	--	7,940 ⁶	2,810	332	450	247	1,530
	10/03/00	8.12		170.98	0.00	--	11,400 ⁶	3,110	437	519	816	1,040
	01/03/01 ⁷	9.10		170.00	0.00	--	8,600 ⁶	2,500	340	480	960	850
	04/04/01	8.63		170.47	0.00	--	9,950 ⁶	2,380	126	416	725	1,140/819 ³
	07/17/01	6.49		172.61	0.00	--	10,000 ⁶	2,300	110	410	800	1,200/900 ³
178.96	10/03/01	7.01		171.95	0.00	--	7,800 ⁶	2,100	85	380	390	580/820 ³
	01/28/02	6.21		172.75	0.00	--	12,000 ¹²	2,100	130	350	670	1,100/500 ³
	04/25/02	5.49		173.47	0.00	--	3,300	1,300	42	270	250	680/600 ³
	07/18/02	8.28		170.68	0.00	--	4,800	1,300	71	290	220	530/760 ³
	10/07/02	7.49		171.47	0.00	--	5,100	1,400	110	330	380	650/540 ³
	01/06/03	6.36		172.60	0.00	--	5,600	1,100	57	260	320	370/520 ³
	04/07/03	6.24		172.72	0.00	--	5,100	1,100	55	190	370	550/420 ³
	07/07/03	6.43		172.53	0.00	--	3,000	920	28	170	330	480/450 ³
MW-5												
169.18	10/03/01 ¹⁰	2.81	--	166.37	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	1,800/2,100 ³
	01/28/02	1.88		167.30	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	650/550 ³
	04/25/02	1.99		167.19	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	2,200/2,400 ³

Table 1
Groundwater Monitoring Data and Analytical Results
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 Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5 (cont)	07/18/02	2.49	--	166.69	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	530/690 ³
	10/07/02	2.80		166.38	0.00	--	140	<0.50	<0.50	<0.50	<0.50	300/330 ³
	01/06/03	1.86		167.32	0.00	<50	120 ¹³	<0.50	<0.50	<0.50	<0.50	410/350 ³
	04/07/03	2.15		167.03	0.00	--	220 ¹⁴	0.53	<0.50	<0.50	<0.50	450/420 ³
	07/07/03	2.26		166.92	0.00	--	120 ¹⁶	<1.2	<1.2	<1.2	<1.2	220/200 ³
MW-6 169.04	10/03/01 ¹⁰	2.87	--	166.17	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	200/270 ³
	01/28/02	1.82		167.22	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/02	2.01		167.03	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/18/02	2.44		166.60	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ³
	10/07/02	2.72		166.32	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ³
	01/06/03	1.90		167.14	0.00	--	<50	0.62	1.2	1.2	3.5	<2.0/<2.0 ³
	04/07/03	2.02		167.02	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	46/46 ³
	07/07/03	2.21		166.83	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ³
MW-7 171.64	10/03/01 ¹⁰	7.62	--	164.02	0.00	--	10,000 ⁹	210	<50	<50	800	35,000/40,000 ³
	01/28/02	7.21		164.43	0.00	--	<1,000	<10	<10	<10	<10	42,000/38,000 ³
	04/25/02	7.25		164.39	0.00	--	<5,000	660	<50	<50	<50	42,000/45,000 ³
	07/18/02	8.12		163.52	0.00	--	<5,000	130	<50	<50	<50	51,000/53,000 ³
	10/07/02	7.71		163.93	0.00	--	18,000	<50	<50	<50	<50	33,000/38,000 ³
	01/06/03	7.63		164.01	0.00	<50	410	0.61	1.0	0.89	2.9	3,900/3,100 ³
	04/07/03	7.58		164.06	0.00	--	13,000 ¹⁴	<20	<20	<20	<20	32,000/28,000 ³
	07/07/03	7.56		164.08	0.00	--	990 ¹⁷	8.2	<0.50	1.2	<0.50	36,000/45,000 ³

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank												
TB-LB	07/20/99	--	--	--	--	--	--	--	--	--	--	--
	09/28/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	01/07/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/31/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/14/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/03/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	01/03/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/04/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/17/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/03/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	10/05/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	01/28/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/18/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	10/07/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/06/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0
	04/07/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/07/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc.

TOC = Top of Casing	TPH-D = Total Petroleum Hydrocarbons as Diesel	(ppb) = Parts per-billion
(ft.) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline	ND = Not Detected
DTW = Depth to Water	B = Benzene	-- = Not Measured/Not Analyzed
S.I. = Screen Interval	T = Toluene	QA =Quality Assurance/Trip Blank
(ft. bgs) = Feet Below Ground Surface	E = Ethylbenzene	
GWE = Groundwater Elevation	X = Xylenes	
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	

* TOC elevations were resurveyed in September 2001, by Morrow Surveying. TOC elevations are based on City of Oakland Benchmark No. 3967, (Elevation = 174.40 feet, msl).

** GWE has been corrected due to the presence of free product; correction factor: $[(TOC - DTW) + (Product\ Thickness \times 0.77)]$.

- 1 Detection limit raised. Refer to analytical reports.
- 2 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 3 MTBE by EPA Method 8260.
- 4 Laboratory report indicates sample was analyzed past EPA recommended holding time.
- 5 Total Recoverable Petroleum Oil was ND.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 This sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
- 8 Laboratory report indicates unidentified hydrocarbons <C16.
- 9 Laboratory report indicates weathered gasoline C6-C12.
- 10 Well development performed.
- 11 Laboratory report indicates unidentified hydrocarbons C10-C28.
- 12 Laboratory report indicates gasoline C6-C10.
- 13 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but it does not resemble the pattern of the requested fuel.
- 14 Laboratory report indicates discrete peak @ MTBE.
- 15 Laboratory report indicates discrete peak @ MTBE @ 3.9 minutes at 110.0619 ppb.
- 16 Laboratory report indicates discrete peak @ MTBE @ 3.9 minutes at 88.5931 ppb.
- 17 Laboratory report indicates most purgeable hydrocarbons area from MTBE.

Table 2
Groundwater Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)	HVOCs (ppb)	SVOCs (ppb)
MW-1	07/20/99	--	--	11,000 ³	--	--	--	--	--	ND ¹	ND ²
	09/28/99	--	ND ⁶	333	ND ⁶	ND ⁶	ND ⁶	--	--	ND ⁴	ND ⁵
	01/07/00	--	--	--	--	--	--	--	--	ND ^{7,8}	ND ⁹
	03/31/00	--	--	--	--	--	--	--	--	-- ¹¹	ND ¹⁰
	07/14/00	--	--	--	--	--	--	--	--	ND ¹²	ND ¹³
	10/03/00	--	--	--	--	--	--	--	--	ND ¹⁵	ND ¹⁴
	01/03/01	--	--	--	--	--	--	--	--	ND ¹⁵	ND ¹⁶
	04/04/01	ND ⁶	ND ⁶	481	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ¹⁷	ND ¹⁸
	07/17/01	ND ⁶	ND ⁶	230	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ²⁰	ND ¹⁹
	01/28/02	--	--	440	--	--	--	--	--	--	--
	04/25/02	--	--	670	--	--	--	--	--	--	--
	07/18/02	<2,500	<100	620	<10	<10	<10	<10	<10	<10	--
	10/07/02	<50,000	<10,000	760	<200	<200	<200	<200	<200	<200	--
	01/06/03 ³	<100,000	<20,000	790	<400	<400	<400	<400	<400	<400	--
	04/07/03	<50,000	<10,000	800	<200	<200	<200	<200	<200	<200	--
07/07/03	<120,000	<25,000	530	<500	<500	<500	<500	<500	<500	--	
MW-2	09/28/99	--	ND ⁶	6,150	ND ⁶	ND ⁶	ND ⁶	--	--	--	--
	04/04/01	ND ⁶	ND ⁶	37,800	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	--	--
	07/17/01	ND ⁶	ND ⁶	56,000	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	--	--
	10/03/01	--	--	18,000	--	--	--	--	--	--	--
	01/28/02	--	--	10,000	--	--	--	--	--	--	--
	04/25/02	--	--	8,100	--	--	--	--	--	--	--
	07/18/02	<25,000	<1,000	8,800	<100	<100	<100	<100	<100	<100	--
	10/07/02	<100,000	<20,000	5,900	<400	<400	<400	<400	<400	<400	--
	01/06/03	<250,000	<50,000	35,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	--
	04/07/03	<10,000	<2,000	1,500	<40	<40	<40	<40	<40	<40	--
	07/07/03	<25,000	<5,000	8,300 ²¹	<100	<100	<100	<100	<100	<100	--

Table 2
Groundwater Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)	HVOCs (ppb)	SVOCs (ppb)
MW-3	09/28/99	--	ND ⁶	288	ND ⁶	ND ⁶	8.80	--	--	--	--
	04/04/01	ND ⁶	ND ⁶	450	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	--	--
	07/17/01	ND ⁶	ND ⁶	350	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	--	--
	01/28/02	--	--	210	--	--	--	--	--	--	--
	04/25/02	--	--	260	--	--	--	--	--	--	--
	07/18/02	<1,200	<50	270	<5.0	<5.0	<5.0	<5.0	<5.0	--	--
	10/07/02	<50,000	<10,000	<200	<200	<200	<200	<200	<200	--	--
	01/06/03	23,000	<4,000	110	<80	<80	<80	<80	<80	--	--
	04/07/03	<20,000	<4,000	100	<80	<80	<80	<80	<80	--	--
07/07/03	<10,000	<2,000	100	<40	<40	<40	<40	<40	--	--	
MW-4	09/28/99	--	ND ⁶	459	ND ⁶	ND ⁶	ND ⁶	--	--	--	--
	04/04/01	ND ⁶	ND ⁶	819	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	--	--
	07/17/01	ND ⁶	ND ⁶	900	ND ⁶	ND ⁶	ND ⁶	ND ⁶	ND ⁶	--	--
	10/03/01	--	--	820	--	--	--	--	--	--	--
	01/28/02	--	--	500	--	--	--	--	--	--	--
	04/25/02	--	--	600	--	--	--	--	--	--	--
	07/18/02	<2,500	<100	760	<10	<10	<10	49	<10	--	--
	10/07/02	<50,000	<10,000	540	<200	<200	<200	<200	<200	--	--
	01/06/03	<5,000	<1,000	520	<20	<20	<20	<20	<20	--	--
	04/07/03	<5,000	<1,000	420	<20	<20	<20	<20	<20	--	--
	07/07/03	<5,000	<1,000	450	<20	<20	<20	<20	<20	--	--
MW-5	10/03/01	--	--	2,100	--	--	--	--	--	--	--
	01/28/02	--	--	550	--	--	--	--	--	--	--
	04/25/02	--	--	2,400	--	--	--	--	--	--	--
	07/18/02	<500	<20	690	<2.0	<2.0	<2.0	<2.0	<2.0	--	--
	10/07/02	<500	<100	330	<2.0	<2.0	<2.0	<2.0	<2.0	--	--

Table 2
Groundwater Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)	HVOCs (ppb)	SVOCs (ppb)
MW-5 (cont)	01/06/03	<500	<100	350	<2.0	<2.0	<2.0	<2.0	<2.0	--	--
	04/07/03	<2,500	<500	420	<10	<10	<10	<10	<10	--	--
	07/07/03	<1,000	<200	200	<4.0	<4.0	<4.0	<4.0	<4.0	--	--
MW-6	10/03/01	--	--	270	--	--	--	--	--	--	--
	07/18/02	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--
	10/07/02	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--
	01/06/03	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--
	04/07/03	<500	<100	46	<2.0	<2.0	<2.0	<2.0	<2.0	--	--
	07/07/03	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--
MW-7	10/03/01	--	--	40,000	--	--	--	--	--	--	--
	01/28/02	--	--	38,000	--	--	--	--	--	--	--
	04/25/02	--	--	45,000	--	--	--	--	--	--	--
	07/18/02	<5,000	33,000	53,000	<20	<20	<20	<20	<20	--	--
	10/07/02	<100,000	26,000	38,000	<400	<400	<400	<400	<400	--	--
	01/06/03	<50,000	<10,000	3,100	<200	<200	<200	<200	<200	--	--
	04/07/03	<200,000	<40,000	28,000	<800	<800	<800	<800	<800	--	--
	07/07/03	<100,000	27,000	45,000	<400	<400	<400	<400	<400	--	--

Table 2
Groundwater Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

EXPLANATIONS:

Groundwater laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc.

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

HVOCs = Halogenated Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds

(ppb) = Parts per billion

ND = Not Detected

-- = Not Analyzed

- ¹ All HVOCs were ND except for Chlorobenzene at 12 ppb; 1,2-Dichlorobenzene (1,2-DCB) at 3.9 ppb; 1,1-Dichloroethane (1,1-DCA) at 2.0 ppb; 1,2-Dichloroethane (1,2-DCA) at 20 ppb; cis-1,2-Dichloroethene (cis-1,2-DCE) at 3.6 ppb and 1,2-Dichloropropane (1,2-DCP) at 0.92 ppb.
- ² All SVOCs were ND except for Benzyl alcohol at 37 ppb; 2,4-Dimethylphenol at 140 ppb; 2-Methylnaphthalene at 240 ppb; 4-Methylphenol at 27 ppb and Naphthalene at 600 ppb.
- ³ Laboratory report indicates sample was analyzed past EPA recommended holding time.
- ⁴ All HVOCs were ND except for Benzene at 6,130 ppb; Ethylbenzene at 1,590 ppb; Naphthalene at 534 ppb; Toluene at 11,900 ppb; 1,2,4-Trimethylbenzene at 1,240 ppb; 1,3,5-Trimethylbenzene at 318 ppb and Total Xylenes at 7,360 ppb.
- ⁵ All SVOCs were ND (with a raised detection limit) except for 2,4-Dimethylphenol at 13.6 ppb; 2-Methylnaphthalene at 87.4 ppb; 2-Methylphenol at 26.4; 4-Methylphenol at 35.6 and Naphthalene at 292 ppb.
- ⁶ Detection limit raised. Refer to analytical reports.
- ⁷ All HVOCs were ND (with a raised detection limit) except for Benzene at 8,380 ppb; Ethylbenzene at 2,380 ppb; Naphthalene at 1,050 ppb; n-Propylbenzene at 371 ppb; Toluene at 17,600 ppb; 1,2,4-Trimethylbenzene at 2,210 ppb; 1,3,5-Trimethylbenzene at 597 ppb and Total Xylenes at 10,800 ppb.
- ⁸ EPA Method 8260 for HVOCs.
- ⁹ All SVOCs were ND (with a raised detection limit) except for 2-Methylnaphthalene at 315 ppb and Naphthalene at 615 ppb.
- ¹⁰ All SVOCs were ND except for Bis(2-ethylhexyl)phthalate at 10 ppb; 1,2-DCB at 6.2 ppb; 2-Methylnaphthalene at 73 ppb; 2-Methylphenol at 31 ppb; 4-Methylphenol at 18 ppb and Naphthalene at 140 ppb. Laboratory report indicates all SVOCs were analyzed outside the EPA recommended holding time.
- ¹¹ Laboratory did not analyze for HVOCs.
- ¹² All HVOCs were ND (with a raised detection limit) except for Tetrachloroethene at 334 ppb.
- ¹³ All SVOCs were ND (with a raised detection limit) except for 2-Methylnaphthalene at 300 ppb and Naphthalene at 690 ppb.
- ¹⁴ All SVOCs were ND (with a raised detection limit) except for Benzoic acid at 362 ppb; Bis(2-ethylhexyl)phthalate at 51.6 ppb; 2-Methylnaphthalene at 98.1 ppb; 4-Methylphenol at 28.9 ppb and Naphthalene at 361 ppb.
- ¹⁵ All HVOCs were ND (with a raised detection limit).
- ¹⁶ All SVOCs were ND (with a raised detection limit) except for 2-Methylnaphthalene at 180 ppb and Naphthalene at 400 ppb.
- ¹⁷ All HVOCs were ND except for cis-1,2-DCA at 3.4 ppb; 1,2-DCA at 5.7 ppb; Chlorobenzene at 5.6 ppb and 1,2-DCB at 4.6 ppb.
- ¹⁸ All SVOCs were ND except for Benzoic acid at 28 ppb; Bis(2-ethylhexyl)phthalate at 55 ppb; 2-Methylnaphthalene at 78 ppb and Naphthalene at 490 ppb.

Table 2
Groundwater Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

EXPLANATIONS: (cont)

- ¹⁹ All SVOCs were ND except for Bis(2-ethylhexyl)phthalate at 400 ppb; 1,2-DCB at 18 ppb; 2,4-Dimethylphenol at 16 ppb; 2-Methylnaphthalene at 290 ppb; 2-Methylphenol at 47 ppb; 4-Methylphenol at 25 ppb; Naphthalene at 740 ppb and N-Nitrosodimethylamine at 7.7 ppb.
- ²⁰ Volatile Organic Compounds (VOCs) by EPA Method 8021B were ND with a raised detection limit.
- ²¹ Laboratory report indicates discrete peak @ MTBE.

ANALYTICAL METHODS:

EPA Method 8260 for Oxygenate Compounds

EPA Method 8010 for HVOCs

EPA Method 8270 for SVOCs

Table 3
Groundwater Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

WELL ID	DATE	cis-1,2-DCE (ppb)	1,2-DCA (ppb)	PCE (ppb)	Chloro- benzene (ppb)	HVOCs (ppb)	Bis(2- ethylhexyl)phr thalate (ppb)	2-Methylnaph- thalene (ppb)	2-Methyl- phenol (ppb)	4-Methyl- phenol (ppb)	Naphthalene (ppb)	SVOCs (ppb)
MW-1	07/18/02	1.3	<1.6	<0.60	5.9	<0.50-<10 ¹	120	420	13	25	910	<5.0-<20 ²
	07/07/03	<120	<120	<120	<120	<120-<1,200	70	260	<5.0	22	850	<5.0-<100 ³
MW-5	01/06/03	<0.50	1.4	<0.50	<0.50	<0.50-<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0-<20
MW-7	01/06/03	<50	<50	<50	<50	<50-<500	<5.0	<5.0	<5.0	<5.0	<10	<5.0-<20

Table 3
Groundwater Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

EXPLANATIONS:

Groundwater laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc. Historical Halogenated and Semi-Volatile Organic Compound data are presented in Table 2.

cis-1,2-DCE = cis-1,2-Dichloroethene

1,2-DCA = 1,2-Dichloroethane

PCE = Tetrachloroethene

HVOCs = Halogenated Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds

(ppb) = Parts per billion

- ¹ Chloroethane was detected at 1.1 ppb, 1,4-Dichlorobenzene was detected at 1.3 ppb and 1,2-Dichlorobenzene was detected at 5.8 ppb.
- ² Phenol was detected at 32 ppb.
- ³ 2,4-Dimethylphenol was detected at 8.5 ppb.

NOTE:

All other HVOCs/SVOCs were less than the reporting limit unless noted above.

ANALYTICAL METHODS:

EPA Method 8010/8021 for HVOCs

EPA Method 8270 for SVOCs

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	11/17/1993	410	21	11	7.9	47	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	01/20/1994	1,200	180	19	48	47	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	04/25/1994	3,100	610	<10	130	27	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	07/07/1994	2,400	1,000	10	250	20	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/1994	2,200	500	3.1	72	1.8	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	01/13/1995	570	75	2.5	6.7	11	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	04/12/1995	1,800	480	<5.0	79	<5.0	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	07/25/1995	120	15	1.1	2.1	2.9	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	01/17/1996	250	22	0.9	1.6	2.3	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/01/1996	1,200	500	12	57	82	1,900	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	01/22/1997	640	170	4.3	33	33	1,200	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	01/09/1998	970	390	12	48	71	1,200	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	07/17/1998	2,500	750	11	88	67	150	NA	175.79	7.28	NA	168.51	NA	NA	NA
MW-1	10/02/1998	8,000	970	36	270	440	35	NA	175.79	7.77	NA	168.02	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
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MW-1	02/03/1999	210	56	0.82	<0.50	3.2	220	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	07/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	120	111*	175.79	8.51	NA	167.28	NA	1.0	NA
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	NA	175.79	8.30	NA	167.49	NA	1.4	-71
MW-1	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-1	04/17/2000	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	NA	175.79	8.00	NA	167.79	NA	1.8	112
MW-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	NA	175.79	7.52	NA	168.27	NA	13.2	-140
MW-1	10/12/2000	101	40.7	2.68	3.00	5.18	25.0	NA	175.79	7.71	NA	168.08	NA	>20	534
MW-1	01/15/2001	<50.0	0.633	<0.500	0.505	1.74	<2.50	NA	175.79	7.33	NA	168.46	NA	16.9	-127
MW-1	04/09/2001	<50.0	<0.500	<0.500	<0.500	0.927	<2.50	NA	175.79	7.68	NA	168.11	NA	12.8	-117
MW-1	07/24/2001	<50	4.0	0.65	0.53	1.3	NA	<5.0	175.79	8.00	NA	167.79	NA	>20	43
MW-1	10/31/2001	<50	4.4	<0.50	<0.50	0.98	NA	<5.0	175.79	7.94	NA	167.85	NA	13.6	123
MW-1	01/10/2002	<50	2.2	<0.50	<0.50	1.2	NA	6.1	175.79	7.63	NA	168.16	NA	0.1	63
MW-1	04/25/2002	<50	2.0	<0.50	<0.50	<0.50	NA	<5.0	175.79	7.76	NA	168.03	NA	0.3	54
MW-1	07/18/2002	<50	6.1	<0.50	<0.50	0.98	NA	<5.0	175.79	8.29	NA	167.50	NA	1.1	32
MW-1	10/07/2002	500	17	14	11	60	NA	9.0	175.76	8.34	NA	167.42	NA	2.8	-26
MW-1	01/06/2003	<50	12	<0.50	0.73	0.58	NA	14	175.76	7.18	NA	168.58	NA	0.5	-22
MW-1	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	12	175.76	7.75	NA	168.01	NA	0.7	-24
MW-1	07/07/2003	<50	6.6	<0.50	<0.50	<1.0	NA	8.1	175.76	7.75	NA	168.01	NA	0.5	16

MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	07/07/1994	280,000a	40,000	26,000	8,100	32,000	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	07/25/1995	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA
MW-2	01/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA
MW-2	07/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	NA	NA
MW-2	10/01/1996	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA
MW-2	01/22/1997	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	04/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	07/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	01/08/1998	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	NA	170.91	10.05	NA	160.86	NA	NA	NA
MW-2	07/17/1998	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/02/1998	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	07/23/1999	65,800	6,500	4,480	1,960	8,960	46,600	58,500*	170.91	14.45	NA	156.46	NA	1.4	NA
MW-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	01/17/2000	46,000	6,000	2,400	1,500	5,500	50,000	31,000	170.91	11.00	NA	159.91	NA	1.3	-54
MW-2	04/17/2000	96,300	8,150	10,200	2,820	14,900	112,000	108,000	170.91	11.06	NA	159.85	NA	2.6	125
MW-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	170.91	12.82	NA	158.09	NA	2.2	113

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
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MW-2	10/12/2000	63,200	5,840	4,180	2,310	11,100	61,200	66,600	170.91	11.32	NA	159.59	NA	0.4	55
MW-2	01/15/2001	59,700	2,630	4,800	2,050	11,500	44,400	5,080	170.91	10.19	NA	160.72	NA	1.1	-22
MW-2	04/09/2001	56,900	1,860	2,550	1,810	9,720	40,000	46,600	170.91	11.15	NA	159.76	NA	1.0	-55
MW-2	07/24/2001	84,000	3,000	4,600	2,500	13,000	NA	41,000	170.91	11.67	NA	159.24	NA	0.2	53
MW-2	10/31/2001	45,000	2,200	3,000	1,500	7,700	NA	29,000	170.91	11.04	NA	159.87	NA	1.2	-17
MW-2	01/10/2002	28,000	840	740	760	3,300	NA	32,000	170.91	9.58	NA	161.33	NA	2.1	-76
MW-2	04/25/2002	41,000	1,900	2,000	1,200	6,900	NA	17,000	170.91	11.40	NA	159.51	NA	0.8	-95
MW-2	07/18/2002	87,000	2,000	2,200	1,400	10,000	NA	19,000	170.91	12.68	NA	158.23	NA	0.7	-34
MW-2	10/07/2002	110,000	3,900	6,700	2,700	15,000	NA	20,000	170.88	11.58	NA	159.30	NA	1.4	-52
MW-2	01/06/2003	65,000	2,400	3,500	1,400	8,600	NA	26,000	170.88	9.09	NA	161.79	NA	0.4	40
MW-2	04/07/2003	57,000	1,900	2,500	1,700	8,600	NA	37,000	170.88	11.08	NA	159.80	NA	1.0	60
MW-2	07/07/2003	34,000	4,000	4,200	1,600	8,500	NA	51,000	170.88	11.27	NA	159.61	NA	1.3	-17

MW-3	11/17/1993	18,000	5,400	660	720	2,200	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3 (D)	04/25/1994	78,000	12,000	1,900	2,600	7,300	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	07/07/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/1994	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/1994	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA
MW-3	11/28/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3 (D)	01/13/1995	23,000	4,000	690	960	3,000	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA
MW-3	07/25/1995	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	01/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	07/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/01/1996	46,000	7,300	530	1,700	3,900	3,200	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3 (D)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3	04/08/1997	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	NA	174.61	15.21	NA	159.40	NA	1.3	NA
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	174.61	15.43	NA	159.18	NA	1.5	-68
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950*	174.61	14.95	NA	159.66	NA	1.3	NA
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	174.61	14.66	NA	159.95	NA	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	NA	174.61	13.94	NA	160.67	NA	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	NA	174.61	14.00	NA	160.61	NA	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	NA	174.61	13.72	NA	160.89	NA	0.9	-70
MW-3	10/12/2000	14,300	2,630	86.7	241	1,360	16,300	NA	174.61	14.15	NA	160.46	NA	0.9	50
MW-3	01/15/2001	22,100	4,400	266	977	2,990	13,200	NA	174.61	13.05	NA	161.56	NA	1.3	-40
MW-3	04/09/2001	33,800	7,100	147	1,700	2,660	13,000	NA	174.61	13.59	NA	161.02	NA	0.6	-56

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	07/24/2001	220,000	5,600	1,900	4,400	19,000	NA	12,000	174.61	14.43	NA	160.18	NA	0.4	29
MW-3	10/31/2001	65,000	2,700	510	1,800	7,200	NA	9,800	174.61	14.59	NA	160.02	NA	0.9	-27
MW-3	01/10/2002	66,000	2,400	490	1,700	6,600	NA	5,500	174.61	12.65	NA	161.96	NA	1.7	-76
MW-3	04/25/2002	55,000	4,600	460	2,400	6,900	NA	8,100	174.61	14.13	NA	160.48	NA	1.2	-96
MW-3	07/18/2002	56,000	3,300	270	1,700	5,000	NA	8,400	174.61	15.48	15.45	159.15	0.03	0.8	-41
MW-3	10/07/2002	NA	NA	NA	NA	NA	NA	NA	174.59	14.60	14.40	160.15	0.20	NA	NA
MW-3	01/06/2003	57,000	3,200	330	1,800	5,400	NA	5,100	174.59	11.62	11.60	162.99	0.02	0.4	33
MW-3	04/07/2003	57,000	6,200	500	2,400	6,700	NA	8,200	174.59	13.80	NA	160.79	NA	0.5	61
MW-3	07/07/2003	28,000	4,900	300	1,500	4,100	NA	7,900	174.59	14.00	NA	160.59	NA	1.0	-11
MW-4	11/17/1994	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA
MW-4	11/28/1994	2,900	200	17	76	260	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	01/13/1995	1,900	130	5.6	13	40	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA
MW-4	04/12/1995	680	150	<2.0	10	13	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	07/25/1995	340	100	0.8	8.8	3	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/1995	150	31	<0.5	3.5	0.8	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	01/17/1996	290	14	<0.5	1.8	0.8	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	04/25/1996	<500	65	<5	<5	<5	1,700	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	04/25/1996	<500	66	<5	8.7	<5	1,500	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	NA	164.06	7.51	NA	156.55	NA	NA	NA
MW-4	04/08/1997	770	200	7	26	55	1,500	8	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	NA	164.06	7.90	NA	156.16	NA	NA	NA
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	02/03/1999	560	120	2.5	29	34	6,800	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000*	164.06	11.33	NA	152.73	NA	0.9	NA
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	NA	164.06	10.66	NA	153.40	NA	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	NA	164.06	10.15	NA	153.91	NA	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	NA	164.06	10.10	NA	153.96	NA	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	NA	164.06	10.09	NA	153.97	NA	1.4	-137
MW-4	10/12/2000	172	19.8	<0.500	7.47	4.50	8,290	NA	164.06	9.35	NA	154.71	NA	3.5	529
MW-4	01/15/2001	53.6	1.50	<0.500	2.45	1.80	9,260	NA	164.06	8.77	NA	155.29	NA	2.3	53
MW-4	04/09/2001	<500	<5.00	<5.00	<5.00	5.52	10,300	NA	164.06	7.75	NA	156.31	NA	1.0	-133
MW-4	07/24/2001	58	3.8	<0.50	3.2	2.9	NA	1,700	164.06	10.07	NA	153.99	NA	0.5	106
MW-4	10/31/2001	<1,000	<10	<10	<10	<10	NA	7,400	164.06	9.97	NA	154.09	NA	0.8	22
MW-4	01/10/2002	<2,000	<20	<20	<20	<20	NA	12,000	164.06	8.53	NA	155.53	NA	8.9	224
MW-4	04/25/2002	<2,000	<20	<20	<20	<20	NA	7,900	164.06	7.33	NA	156.73	NA	3.6	-84
MW-4	07/18/2002	<2,000	<20	<20	<20	<20	NA	7,200	164.06	9.05	NA	155.01	NA	1.7	120
MW-4	10/07/2002	<1,000	<10	<10	<10	<10	NA	3,300	164.03	9.06	NA	154.97	NA	2.5	33
MW-4	01/06/2003	<500	21	<5.0	<5.0	<5.0	NA	2,500	164.03	7.09	NA	156.94	NA	0.5	55
MW-4	04/07/2003	<2,500	<25	<25	<25	<50	NA	1,700	164.03	8.26	NA	155.77	NA	1.2	69
MW-4	07/07/2003	<2,500	<25	<25	<25	<50	NA	860	164.03	8.92	NA	155.11	NA	0.5	-3
MW-5	01/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	5.62	NA	NA	NA	NA	NA
MW-5	01/10/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	164.06	5.88	NA	158.18	NA	3.3	172

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-5	04/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	73	164.06	6.81	NA	157.25	NA	0.3	-44
MW-5	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	75	164.06	7.38	NA	156.68	NA	0.4	170
MW-5	10/07/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	41	164.14	6.75	NA	157.39	NA	1.5	16
MW-5	01/06/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	81	164.14	5.96	NA	158.18	NA	0.6	166
MW-5	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	77	164.14	6.51	NA	157.63	NA	0.8	174
MW-5	07/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	32	164.14	6.44	NA	157.70	NA	0.3	-17
TB-1	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	3.8	-132
TB-1	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.65	NA	NA	NA	0.2	-165
TB-1	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.72	NA	NA	NA	0.8	-178
TB-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.65	NA	NA	NA	0.5	-152
TB-1	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.13	NA	NA	NA	1.0	-124
TB-1	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.20	NA	NA	NA	0.7	-73
TB-1	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	5.09	NA	NA	NA	1.2	-118
TB-1	04/09/2001	NA	NA	NA	NA	NA	NA	NA	NA	4.96	NA	NA	NA	1.0	-72
TB-1	07/24/2001	NA	NA	NA	NA	NA	NA	NA	NA	6.03	NA	NA	NA	1.4	31
TB-1	10/31/2001	1,000	85	<10	<10	42	NA	4,100	NA	5.89	NA	NA	NA	1.8	88
TB-1	01/10/2002	5,000	410	390	65	620	NA	9,000	NA	7.47	NA	NA	NA	2.0	95
TB-1	04/25/2002	5,000	780	60	49	91	NA	6,000	NA	11.71	NA	NA	NA	1.7	-136
TB-1	07/18/2002	Insufficient water		NA	NA	NA	NA	NA	NA	13.50	NA	NA	NA	NA	NA
TB-1	10/07/2002	4,600	480	36	98	200	NA	4,000	NA	12.95	NA	NA	NA	1.6	-48
TB-1	01/06/2003	130	30	<0.50	<0.50	0.78	NA	330	NA	5.56	NA	NA	NA	0.4	-20
TB-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	4.76	NA	NA	NA	4.2	-108
TB-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.33	NA	NA	NA	0.5	-148
TB-2	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.79	NA	NA	NA	0.7	-162
TB-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.75	NA	NA	NA	0.9	-121

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
TB-2	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.73	NA	NA	NA	0.9	-85
TB-2	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.05	NA	NA	NA	0.6	-47
TB-2	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.87	NA	NA	NA	0.7	-91
TB-2	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.87	NA	NA	NA	0.7	-91
TB-2	04/09/2001	46,600	1,240	1,310	1,110	12,100	31,300	NA	NA	3.76	NA	NA	NA	0.8	-24
TB-2	07/24/2001	11,000	630	<25	310	200	NA	11,000	NA	4.75	NA	NA	NA	0.4	-51
TB-2	10/31/2001	7,500	530	1,500	100	500	NA	2,500	NA	4.24	NA	NA	NA	0.6	-7
TB-2	01/10/2002	<5,000	480	47	34	110	NA	12,000	NA	6.26	NA	NA	NA	1.3	-81
TB-2	04/25/2002	4,700	470	140	<20	80	NA	7,400	NA	11.78	NA	NA	NA	0.9	-107
TB-2	04/25/2002	4,700	470	140	<20	80	NA	7,400	NA	11.78	NA	NA	NA	0.9	-107
TB-2	07/18/2002	7,500	630	650	<25	390	NA	44,000	NA	12.34	NA	NA	NA	0.9	-67
TB-2	07/18/2002	7,500	630	650	<25	390	NA	44,000	NA	12.34	NA	NA	NA	0.9	-67
TB-2	10/07/2002	<10,000	580	<100	<100	180	NA	30,000	NA	11.62	NA	NA	NA	1.0	-41
TB-2	10/07/2002	<10,000	580	<100	<100	180	NA	30,000	NA	11.62	NA	NA	NA	1.0	-41
TB-2	01/06/2003	120	4.8	<0.50	<0.50	2.0	NA	220	NA	4.35	NA	NA	NA	0.5	-515

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

DO = Dissolved Oxygens

ppm = Parts per million

ORP = Oxidation Reduction Potential

mV = Millivolts

Notes:

* = Sample analyzed outside the EPA recommended holding time.

a = Ground water surface had a sheen when sampled.

b = MTBE value is estimated by Sequoia Analytical of Redwood City, California.

Site surveyed March 14, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:

Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

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 #1156 Job Number: 180225
 Site Address: 4276 Macarthur Event Date: 7-7-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-1 Date Monitored: 7-7-03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 25.10 ft.
 Depth to Water: 6.47 ft.
18.63 xVF 0.17 = 3.17 x3 (case volume) = Estimated Purge Volume: 9.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	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): 11:38 Weather Conditions: Clear
 Sample Time/Date: 12:08 / 7-7-03 Water Color: Clear Odor: yes
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) x 10 ²	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>11:48</u>	<u>3</u>	<u>6.89</u>	<u>246</u>	<u>72.1</u>		
<u>11:51</u>	<u>6</u>	<u>6.80</u>	<u>241</u>	<u>72.2</u>		
<u>11:54</u>	<u>9.5</u>	<u>6.77</u>	<u>266</u>	<u>72.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>5 x vovial</u>	<u>YES</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)/ 8 OXY'S(8260)</u>
	<u>3x vovial</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>HVOC'S (8010)</u>
	<u>1x Am6</u>	<u>"</u>	<u>NP</u>	<u>"</u>	<u>TPHD (8015)</u>
	<u>1x Am6</u>	<u>"</u>	<u>NP</u>	<u>"</u>	<u>SVOC'S (8270)</u>

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1156 Job Number: 180225
 Site Address: 4276 Macarthur Event Date: 7-7-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-2 Date Monitored: 7-7-03 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 24.15 ft.
 Depth to Water: 6.72 ft.
17.43 xVF 0.17 = 2.96 x3 (case volume) = Estimated Purge Volume: 9 gal.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	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): 0930 Weather Conditions: clear
 Sample Time/Date: 0955 7-7-03 Water Color: clear Odor: yes
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm) ^{x10²}	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0937</u>	<u>3</u>	<u>7.42</u>	<u>5.41</u>	<u>73.3</u>	_____	_____
<u>0940</u>	<u>6</u>	<u>7.36</u>	<u>5.80</u>	<u>73.1</u>	_____	_____
<u>0942</u>	<u>9</u>	<u>7.31</u>	<u>5.88</u>	<u>73.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>5 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>SEQUIOIA</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)/ 8 OXY'S(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1156 Job Number: 180225
 Site Address: 4276 Macarthur Event Date: 7-7-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-3 Date Monitored: 7-7-03 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 25.06 ft.
 Depth to Water: 8.35 ft.
16.71 xVF 0.17 = 2.84 x3 (case volume) = Estimated Purge Volume: 9 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	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): 1100 Weather Conditions: clear
 Sample Time/Date: 1127 7-7-03 Water Color: clear Odor: yes
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1109</u>	<u>3</u>	<u>6.69</u>	<u>1.95</u>	<u>73.8</u>		
<u>1112</u>	<u>6</u>	<u>6.74</u>	<u>2.43</u>	<u>73.2</u>		
<u>1115</u>	<u>9</u>	<u>6.68</u>	<u>2.51</u>	<u>73.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>SEQUIOIA</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)/ 8 OXY'S(8260)</u>

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1156 Job Number: 180225
 Site Address: 4276 Macarthur Event Date: 7-7-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-4 Date Monitored: 7-7-03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 25.30 ft.
 Depth to Water: 6.43 ft.
18.87 xVF 0.17 = 3.21 x3 (case volume) = Estimated Purge Volume: 10 gal.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	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): 1015 Weather Conditions: Clear
 Sample Time/Date: 1045 17-7-03 Water Color: Clear Odor: yes
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1025</u>	<u>3.5</u>	<u>6.59</u>	<u>1.64</u>	<u>73.1</u>	_____	_____
<u>1028</u>	<u>7.5</u>	<u>6.57</u>	<u>1.60</u>	<u>73.4</u>	_____	_____
<u>1031</u>	<u>10</u>	<u>6.62</u>	<u>1.67</u>	<u>72.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>2</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>SEQUIOIA</u>	<u>TPH-G(8015)/BTX/MTBE(8021)/ 8 OXY'S(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1156 Job Number: 180225
 Site Address: 4276 Macarthur Event Date: 7-7-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-5 Date Monitored: 7-7-03 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 25.37 ft.
 Depth to Water: 2.26 ft.
23.11 xVF 0.17 = 3.93 x3 (case volume) = Estimated Purge Volume: 12 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	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): 0617 Weather Conditions: Clear
 Sample Time/Date: 0740 17-7-03 Water Color: Clear Odor: none
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) ¹¹⁰	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0725</u>	<u>4</u>	<u>7.51</u>	<u>8.14</u>	<u>71.1</u>	_____	_____
<u>0728</u>	<u>8</u>	<u>7.60</u>	<u>7.54</u>	<u>71.6</u>	_____	_____
<u>0731</u>	<u>12</u>	<u>7.64</u>	<u>5.52</u>	<u>72.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>5</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>SEQUIOIA</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)/ 8 OXY'S(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1156 Job Number: 180225
 Site Address: 4276 Macarthur Event Date: 7-7-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-6 Date Monitored: 7-7-03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 24.90 ft.

Depth to Water: 2.21 ft.

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

22.69 x VF 0.17 = 3.86 x3 (case volume) = Estimated Purge Volume: 12 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): 0755 Weather Conditions: clear

Sample Time/Date: 0825 17-7-03 Water Color: clear Odor: none

Purging Flow Rate: 1 gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0807</u>	<u>4</u>	<u>7.50</u>	<u>607</u>	<u>72.0</u>	_____	_____
<u>0810</u>	<u>8</u>	<u>7.42</u>	<u>612</u>	<u>73.0</u>	_____	_____
<u>0813</u>	<u>12</u>	<u>7.31</u>	<u>612</u>	<u>73.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>5 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>SEQUIOIA</u>	<u>TPH-G(8015)/BTX/MTBE(8021)/ 8 OXY'S(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #1156 Job Number: 180225
 Site Address: 4276 Macarthur Event Date: 7-7-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-7 Date Monitored: 7-7-03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 25.52 ft.
 Depth to Water: 7.56 ft.
 Volume Factor (VF): 17.96 x VF 0.17 = 3.05 x3 (case volume) = Estimated Purge Volume: 9.15 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	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: 2 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): 0837 Weather Conditions: clear
 Sample Time/Date: 0910 7-7-03 Water Color: clear Odor: yes
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) x 1000	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0850</u>	<u>3</u>	<u>6.81</u>	<u>1.72</u>	<u>73.6</u>	_____	_____
<u>0853</u>	<u>6</u>	<u>6.86</u>	<u>1.80</u>	<u>73.5</u>	_____	_____
<u>0857</u>	<u>9.15</u>	<u>6.80</u>	<u>1.77</u>	<u>73.5</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>5</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>SEQUIOIA</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)/ 8 OXY'S(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____

Gettler-Ryan Inc., Chain-of-Custody

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

Facility Number #1156
Facility Address 4276 MACARTHUR, OAKLAND, CA
Global ID T0800102279 Project 180225.80
Client Contact MR. DAVID B. DEWITT
Phone 916-558-7666

Laboratory Name SEQUOIA ANALYTICAL
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 JOE AJEMIAN

SAC

SAMPLE ID	Number of Containers Matrix	S = Soil W = Water A = Air C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/STILES gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 8020	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	VOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks		
																		5307213-01	received	
QA	1VOL	W	KCC	7-7-03	✓															
MW-1	8VOL 2ANAL			1208	✓	✓				✓					✓					
MW-2	5VOL			0955	✓					✓										
MW-3	"			1127	✓					✓										
MW-4	"			1045	✓					✓										
MW-5	"			0740	✓					✓										
MW-6	"			0825	✓					✓										
MW-7	"			0910	✓					✓										

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

Relinquished By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time 1435 7-7-03	Received By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time 1435 7/7/03	Load Y/N Y	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time 1435 7/9/03	Received By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time 1435 7/9/03	Load Y/N Y	
Relinquished By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time 1537 7/8/03	Received For Laboratory By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time 1537 7/8/03	Load Y/N Y	

Sam Harding 7/9/03 1145 P.m. 2/4 per
 Deanna Harding 7/9/03 1145 P.m. 2/4 per
 7-76 0930 KCC 7-10

Monica Gilman 7/10/03 1145 P.m. 2/4 per



23 July, 2003

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

RECEIVED

JUL 23 2003

RE: TOSCO 1156, Oakland, CA
Work Order: S307213

GETTLER-RYAN INC.

GENERAL CONTRACTORS

Enclosed are the results of analyses for samples received by the laboratory on 07/08/03 14:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
QA Manager / Client Services Representative

CA ELAP Certificate #1624

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

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
QA	S307213-01	Water	07/07/03 00:00	07/08/03 14:35
MW-1	S307213-02	Water	07/07/03 12:08	07/08/03 14:35
MW-2	S307213-03	Water	07/07/03 09:55	07/08/03 14:35
MW-3	S307213-04	Water	07/07/03 11:27	07/08/03 14:35
MW-4	S307213-05	Water	07/07/03 10:45	07/08/03 14:35
MW-5	S307213-06	Water	07/07/03 07:40	07/08/03 14:35
MW-6	S307213-07	Water	07/07/03 08:25	07/08/03 14:35
MW-7	S307213-08	Water	07/07/03 09:10	07/08/03 14:35

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

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
QA (S307213-01) Water Sampled: 07/07/03 00:00 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070152	07/16/03	07/17/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91 %	60-140		"	"	"	"	
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	60000	10000	ug/l	200	3070261	07/22/03	07/22/03	EPA 8015/8021	HT-RS
Benzene	6400	100	"	"	"	"	"	"	
Toluene	11000	200	"	400	"	"	07/22/03	"	
Ethylbenzene	2600	100	"	200	"	"	07/22/03	"	
Xylenes (total)	11000	100	"	"	"	"	"	"	
Methyl tert-butyl ether	600	400	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98 %	60-140		"	"	"	"	
MW-2 (S307213-03) Water Sampled: 07/07/03 09:55 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	ND	2500	ug/l	50	3070184	07/18/03	07/18/03	EPA 8015/8021	HC-19a
Benzene	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	5500	100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88 %	60-140		"	"	"	"	

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (S307213-04) Water Sampled: 07/07/03 11:27 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	33000	2000	ug/l	40	3070184	07/18/03	07/18/03	EPA 8015/8021	
Benzene	1200	20	"	"	"	"	"	"	
Toluene	2500	50	"	100	"	"	07/18/03	"	
Ethylbenzene	2700	20	"	40	"	"	07/18/03	"	
Xylenes (total)	8300	50	"	100	"	"	07/18/03	"	
Methyl tert-butyl ether	280	80	"	40	"	"	07/18/03	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %	60-140	"	"	"	"	"	
MW-4 (S307213-05) Water Sampled: 07/07/03 10:45 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	3000	2000	ug/l	40	3070184	07/18/03	07/18/03	EPA 8015/8021	
Benzene	920	20	"	"	"	"	"	"	
Toluene	28	20	"	"	"	"	"	"	
Ethylbenzene	170	20	"	"	"	"	"	"	
Xylenes (total)	330	20	"	"	"	"	"	"	
Methyl tert-butyl ether	480	80	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86 %	60-140	"	"	"	"	"	
MW-5 (S307213-06) Water Sampled: 07/07/03 07:40 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	120	120	ug/l	2.5	3070184	07/18/03	07/18/03	EPA 8015/8021	HC-19b
Benzene	ND	1.2	"	"	"	"	"	"	
Toluene	ND	1.2	"	"	"	"	"	"	
Ethylbenzene	ND	1.2	"	"	"	"	"	"	
Xylenes (total)	ND	1.2	"	"	"	"	"	"	
Methyl tert-butyl ether	220	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93 %	60-140	"	"	"	"	"	

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (S307213-07) Water Sampled: 07/07/03 08:25 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070184	07/18/03	07/18/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80 %	60-140	"	"	"	"	"	
MW-7 (S307213-08) Water Sampled: 07/07/03 09:10 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	990	50	ug/l	1	3070184	07/18/03	07/18/03	EPA 8015/8021	A-01
Benzene	8.2	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.2	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	36000	2000	"	1000	"	"	07/21/03	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92 %	60-140	"	"	"	07/18/03	"	

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

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Diesel Hydrocarbons by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									
Diesel Range Organics (C10-C28)	7000	500	ug/l	10	3070204	07/16/03	07/17/03	DHS LUFT	HC-12
Surrogate: Octacosane		367 %	50-150		"	"	"	"	S-02

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

Volatile Organic Compounds 8010B list by EPA Method 8260B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water									R-05
Sampled: 07/07/03 12:08			Received: 07/08/03 14:35						
Freon 113	ND	250	ug/l	250	3070211	07/17/03	07/17/03	EPA 8260B	
Bromodichloromethane	ND	120	"	"	"	"	"	"	
Bromoform	ND	120	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	120	"	"	"	"	"	"	
Chlorobenzene	ND	120	"	"	"	"	"	"	
Chloroethane	ND	120	"	"	"	"	"	"	
Chloroform	ND	120	"	"	"	"	"	"	
Chloromethane	ND	120	"	"	"	"	"	"	
Dibromochloromethane	ND	120	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	120	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	120	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	120	"	"	"	"	"	"	
1,1-Dichloroethane	ND	120	"	"	"	"	"	"	
1,2-Dichloroethane	ND	120	"	"	"	"	"	"	
1,1-Dichloroethene	ND	120	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	120	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	120	"	"	"	"	"	"	
1,2-Dichloropropane	ND	120	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	120	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	120	"	"	"	"	"	"	
Methylene chloride	ND	1200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND	120	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	120	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	120	"	"	"	"	"	"	
Trichloroethene	ND	120	"	"	"	"	"	"	
Trichlorofluoromethane	ND	120	"	"	"	"	"	"	
Vinyl chloride	ND	120	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		101 %		70-130	"	"	"	"	
Surrogate: 4-BFB		113 %		70-130	"	"	"	"	

Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 1156, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307213 Reported: 07/23/03 16:21
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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35 R-05									
Tert-butyl alcohol	ND	25000	ug/l	250	3070211	07/17/03	07/17/03	EPA 8260B	
Methyl tert-butyl ether	530	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	500	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	500	"	"	"	"	"	"	
Ethanol	ND	120000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		100 %		60-140	"	"	"	"	
MW-2 (S307213-03) Water Sampled: 07/07/03 09:55 Received: 07/08/03 14:35									
Tert-butyl alcohol	ND	5000	ug/l	50	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	8300	100	"	"	"	"	"	"	HC-19
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	100	"	"	"	"	"	"	
Ethanol	ND	25000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		118 %		60-140	"	"	"	"	
MW-3 (S307213-04) Water Sampled: 07/07/03 11:27 Received: 07/08/03 14:35									
Tert-butyl alcohol	ND	2000	ug/l	20	3070239	07/18/03	07/18/03	EPA 8260B	R-05
Methyl tert-butyl ether	100	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	40	"	"	"	"	"	"	R-05
Ethyl tert-butyl ether	ND	40	"	"	"	"	"	"	R-05
Tert-amyl methyl ether	ND	40	"	"	"	"	"	"	R-05
Ethanol	ND	10000	"	"	"	"	"	"	R-05
1,2-Dichloroethane	ND	40	"	"	"	"	"	"	R-05
1,2-Dibromoethane (EDB)	ND	40	"	"	"	"	"	"	R-05
<i>Surrogate: 1,2-DCA-d4</i>		86 %		60-140	"	"	"	"	

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (S307213-05) Water Sampled: 07/07/03 10:45 Received: 07/08/03 14:35									
Tert-butyl alcohol	ND	1000	ug/l	10	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	450	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	20	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		79 %	60-140		"	"	"	"	
MW-5 (S307213-06) Water Sampled: 07/07/03 07:40 Received: 07/08/03 14:35									
Tert-butyl alcohol	ND	200	ug/l	2	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	200	4.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	4.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	4.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	4.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		73 %	60-140		"	"	"	"	
MW-6 (S307213-07) Water Sampled: 07/07/03 08:25 Received: 07/08/03 14:35									
Tert-butyl alcohol	ND	100	ug/l	1	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		97 %	60-140		"	"	"	"	

Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 1156, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307213 Reported: 07/23/03 16:21
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**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (S307213-08) Water Sampled: 07/07/03 09:10 Received: 07/08/03 14:35									
Tert-butyl alcohol	27000	20000	ug/l	200	3070255	07/21/03	07/21/03	EPA 8260B	
Methyl tert-butyl ether	45000	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	400	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	400	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	400	"	"	"	"	"	"	
Ethanol	ND	100000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	400	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		105 %		60-140	"	"	"	"	

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

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Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									
2,4-Dinitrotoluene	ND	5.0	ug/l	1	3070166	07/14/03	07/14/03	EPA 8270C	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	20	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.0	"	"	"	"	"	"	
Azobenzene	ND	5.0	"	"	"	"	"	"	
4-Nitroaniline	ND	5.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	20	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Carbazole	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
Benzy butyl phthalate	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	10	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	70	5.0	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		63 %		11.2-69.6	"	"	"	"	
<i>Surrogate: Phenol-d6</i>		21 %		10-58.7	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		81 %		36.7-118	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		67 %		44-112	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		88 %		41.5-117	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		51 %		20.7-144	"	"	"	"	

Gettler-Ryan - Dublin
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 Project: TOSCO 1156, Oakland, CA
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Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									
N-Nitrosodimethylamine	ND	5.0	ug/l	1	3070166	07/14/03	07/14/03	EPA 8270C	
Phenol	ND	5.0	"	"	"	"	"	"	
Aniline	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Benzyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2-Methylphenol	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Methylphenol	22	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	20	"	"	"	"	"	"	
2,4-Dimethylphenol	8.5	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Benzoic acid	ND	20	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
Naphthalene	850	100	"	10	"	"	07/15/03	"	
4-Chloroaniline	ND	5.0	"	1	"	"	07/14/03	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	260	50	"	10	"	"	07/15/03	"	
Hexachlorocyclopentadiene	ND	20	"	1	"	"	07/14/03	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
3-Nitroaniline	ND	5.0	"	"	"	"	"	"	
Acenaphthene	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	20	"	"	"	"	"	"	
4-Nitrophenol	ND	20	"	"	"	"	"	"	
Dibenzofuran	ND	5.0	"	"	"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070152 - EPA 5030B (P/T)

Prepared & Analyzed: 07/11/03

Blank (3070152-BLK1)

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.49		"	10.0		85	60-140			

Prepared & Analyzed: 07/16/03

Blank (3070152-BLK2)

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.70		"	10.0		87	60-140			

Laboratory Control Sample (3070152-BS1)

Prepared & Analyzed: 07/11/03

Benzene	9.33	0.50	ug/l	10.0		93	70-130			
Toluene	9.47	0.50	"	10.0		95	70-130			
Ethylbenzene	9.33	0.50	"	10.0		93	70-130			
Xylenes (total)	27.2	0.50	"	30.0		91	70-130			
Methyl tert-butyl ether	9.89	2.0	"	10.0		99	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.29		"	10.0		93	60-140			

Laboratory Control Sample (3070152-BS2)

Prepared & Analyzed: 07/16/03

Benzene	9.55	0.50	ug/l	10.0		96	70-130			
Toluene	9.94	0.50	"	10.0		99	70-130			
Ethylbenzene	10.3	0.50	"	10.0		103	70-130			
Xylenes (total)	31.7	0.50	"	30.0		106	70-130			
Methyl tert-butyl ether	8.60	2.0	"	10.0		86	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.48		"	10.0		95	60-140			

Gettler-Ryan - Dublin
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 Project: TOSCO 1156, Oakland, CA
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 S307213
 Reported:
 07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070152 - EPA 5030B (P/T)
Matrix Spike (3070152-MS1) Source: S307076-02 Prepared & Analyzed: 07/11/03

Benzene	8.60	0.50	ug/l	10.0	ND	86	60-140			
Toluene	8.94	0.50	"	10.0	ND	89	60-140			
Ethylbenzene	8.64	0.50	"	10.0	ND	86	60-140			
Xylenes (total)	25.0	0.50	"	30.0	ND	83	60-140			
Methyl tert-butyl ether	9.07	2.0	"	10.0	ND	91	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.34		"	10.0		93	60-140			

Matrix Spike Dup (3070152-MSD1) Source: S307076-02 Prepared & Analyzed: 07/11/03

Benzene	8.40	0.50	ug/l	10.0	ND	84	60-140	2	25	
Toluene	8.69	0.50	"	10.0	ND	87	60-140	3	25	
Ethylbenzene	8.41	0.50	"	10.0	ND	84	60-140	3	25	
Xylenes (total)	24.5	0.50	"	30.0	ND	82	60-140	2	25	
Methyl tert-butyl ether	8.78	2.0	"	10.0	ND	88	60-140	3	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.25		"	10.0		82	60-140			

Batch 3070184 - EPA 5030B (P/T)
Blank (3070184-BLK1) Prepared & Analyzed: 07/15/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.15		"	10.0		82	60-140			

Blank (3070184-BLK2) Prepared & Analyzed: 07/16/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.17		"	10.0		82	60-140			

Gettler-Ryan - Dublin
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 Reported:
 07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070184 - EPA 5030B (P/T)

Blank (3070184-BLK3)										
Prepared & Analyzed: 07/18/03										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.65		"	10.0		86	60-140			

Blank (3070184-BLK4)										
Prepared & Analyzed: 07/21/03										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.69		"	10.0		87	60-140			

Laboratory Control Sample (3070184-BS1)										
Prepared & Analyzed: 07/15/03										
Benzene	9.46	0.50	ug/l	10.0		95	70-130			
Toluene	9.56	0.50	"	10.0		96	70-130			
Ethylbenzene	9.40	0.50	"	10.0		94	70-130			
Xylenes (total)	27.8	0.50	"	30.0		93	70-130			
Methyl tert-butyl ether	10.3	2.0	"	10.0		103	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.08		"	10.0		91	60-140			

Laboratory Control Sample (3070184-BS2)										
Prepared & Analyzed: 07/16/03										
Benzene	9.18	0.50	ug/l	10.0		92	70-130			
Toluene	9.34	0.50	"	10.0		93	70-130			
Ethylbenzene	9.08	0.50	"	10.0		91	70-130			
Xylenes (total)	27.6	0.50	"	30.0		92	70-130			
Methyl tert-butyl ether	9.74	2.0	"	10.0		97	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	7.95		"	10.0		80	60-140			

Gettler-Ryan - Dublin
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 Dublin CA, 94568

 Project: TOSCO 1156, Oakland, CA
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 S307213
 Reported:
 07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070184 - EPA 5030B (P/T)
Laboratory Control Sample (3070184-BS3)

Prepared & Analyzed: 07/18/03

Benzene	8.60	0.50	ug/l	10.0		86	70-130			
Toluene	8.88	0.50	"	10.0		89	70-130			
Ethylbenzene	8.70	0.50	"	10.0		87	70-130			
Xylenes (total)	26.4	0.50	"	30.0		88	70-130			
Methyl tert-butyl ether	10.5	2.0	"	10.0		105	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>8.91</i>		"	<i>10.0</i>		<i>89</i>	<i>60-140</i>			

Laboratory Control Sample (3070184-BS4)

Prepared & Analyzed: 07/21/03

Benzene	8.14	0.50	ug/l	10.0		81	70-130			
Toluene	8.43	0.50	"	10.0		84	70-130			
Ethylbenzene	8.26	0.50	"	10.0		83	70-130			
Xylenes (total)	24.7	0.50	"	30.0		82	70-130			
Methyl tert-butyl ether	9.13	2.0	"	10.0		91	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>8.74</i>		"	<i>10.0</i>		<i>87</i>	<i>60-140</i>			

Matrix Spike (3070184-MS1)

Source: S307210-01

Prepared & Analyzed: 07/15/03

Benzene	9.67	0.50	ug/l	10.0	ND	97	60-140			
Toluene	9.82	0.50	"	10.0	ND	98	60-140			
Ethylbenzene	9.54	0.50	"	10.0	ND	95	60-140			
Xylenes (total)	28.1	0.50	"	30.0	ND	94	60-140			
Methyl tert-butyl ether	10.8	2.0	"	10.0	ND	108	60-140			QR-02
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>8.80</i>		"	<i>10.0</i>		<i>88</i>	<i>60-140</i>			

Matrix Spike Dup (3070184-MSD1)

Source: S307210-01

Prepared & Analyzed: 07/16/03

Benzene	8.44	0.50	ug/l	10.0	ND	84	60-140	14	25	
Toluene	8.70	0.50	"	10.0	ND	87	60-140	12	25	
Ethylbenzene	8.49	0.50	"	10.0	ND	85	60-140	12	25	
Xylenes (total)	25.0	0.50	"	30.0	ND	83	60-140	12	25	
Methyl tert-butyl ether	6.28	2.0	"	10.0	ND	63	60-140	53	25	QR-02
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>9.48</i>		"	<i>10.0</i>		<i>95</i>	<i>60-140</i>			

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

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

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070261 - EPA 5030B (P/T)
Blank (3070261-BLK1)

Prepared & Analyzed: 07/21/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.69		"	10.0		87	60-140			

Blank (3070261-BLK2)

Prepared & Analyzed: 07/22/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.99		"	10.0		90	60-140			

Blank (3070261-BLK3)

Prepared & Analyzed: 07/23/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.08		"	10.0		81	60-140			

Laboratory Control Sample (3070261-BS1)

Prepared & Analyzed: 07/21/03

Benzene	8.14	0.50	ug/l	10.0		81	70-130			
Toluene	8.43	0.50	"	10.0		84	70-130			
Ethylbenzene	8.26	0.50	"	10.0		83	70-130			
Xylenes (total)	24.7	0.50	"	30.0		82	70-130			
Methyl tert-butyl ether	9.13	2.0	"	10.0		91	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.74		"	10.0		87	60-140			



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Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

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Reported:
07/23/03 16:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070261 - EPA 5030B (P/T)

Laboratory Control Sample (3070261-BS2)				Prepared & Analyzed: 07/22/03						
Benzene	8.37	0.50	ug/l	10.0		84	70-130			
Toluene	8.62	0.50	"	10.0		86	70-130			
Ethylbenzene	8.47	0.50	"	10.0		85	70-130			
Xylenes (total)	25.5	0.50	"	30.0		85	70-130			
Methyl tert-butyl ether	8.85	2.0	"	10.0		88	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.80		"	10.0		88	60-140			
Matrix Spike (3070261-MS1)				Prepared & Analyzed: 07/22/03						
Source: S307236-01										
Benzene	8.83	0.50	ug/l	10.0	ND	88	60-140			
Toluene	8.99	0.50	"	10.0	ND	90	60-140			
Ethylbenzene	8.70	0.50	"	10.0	ND	87	60-140			
Xylenes (total)	25.4	0.50	"	30.0	ND	85	60-140			
Methyl tert-butyl ether	7.48	2.0	"	10.0	ND	75	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.30		"	10.0		93	60-140			
Matrix Spike Dup (3070261-MSD1)				Prepared & Analyzed: 07/22/03						
Source: S307236-01										
Benzene	8.98	0.50	ug/l	10.0	ND	90	60-140	2	25	
Toluene	9.18	0.50	"	10.0	ND	92	60-140	2	25	
Ethylbenzene	8.73	0.50	"	10.0	ND	87	60-140	0.3	25	
Xylenes (total)	25.5	0.50	"	30.0	ND	85	60-140	0.4	25	
Methyl tert-butyl ether	9.11	2.0	"	10.0	ND	91	60-140	20	25	
Surrogate: a,a,a-Trifluorotoluene	8.93		"	10.0		89	60-140			

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**Diesel Hydrocarbons by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070204 - EPA 3510C										
Blank (3070204-BLK1)				Prepared & Analyzed: 07/16/03						
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: Octacosane	21.3		"	20.0		106	50-150			
Laboratory Control Sample (3070204-BS1)				Prepared & Analyzed: 07/16/03						
Diesel Range Organics (C10-C28)	503	50	ug/l	500		101	60-140			
Surrogate: Octacosane	23.7		"	20.0		118	50-150			
Laboratory Control Sample Dup (3070204-BSD1)				Prepared & Analyzed: 07/16/03						
Diesel Range Organics (C10-C28)	538	50	ug/l	500		108	60-140	7	50	
Surrogate: Octacosane	24.0		"	20.0		120	50-150			

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 Project Manager: Deanna L. Harding

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070211 - EPA 5030B [P/T]										
Blank (3070211-BLK1)										
Prepared: 07/16/03 Analyzed: 07/17/03										
Freon 113	ND	1.0	ug/l							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Methylene chloride	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Surrogate: 1,2-DCA-d4	24.6		"	25.0		98	70-130			
Surrogate: Toluene-d8	26.3		"	25.0		105	70-130			
Surrogate: 4-BFB	26.1		"	25.0		104	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070211 - EPA 5030B [P/T]

Laboratory Control Sample (3070211-BS1)				Prepared: 07/16/03		Analyzed: 07/17/03	
Chlorobenzene	24.6	0.50	ug/l	25.0	98	70-130	
1,1-Dichloroethene	19.2	0.50	"	25.0	77	70-130	
Trichloroethene	20.8	0.50	"	25.0	83	70-130	
Surrogate: 1,2-DCA-d4	23.3		"	25.0	93	70-130	
Surrogate: Toluene-d8	24.0		"	25.0	96	70-130	
Surrogate: 4-BFB	24.4		"	25.0	98	70-130	

Matrix Spike (3070211-MS1)				Source: S307299-07		Prepared: 07/16/03		Analyzed: 07/17/03	
Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	60-140		
1,1-Dichloroethene	20.7	0.50	"	25.0	ND	83	60-140		
Trichloroethene	21.0	0.50	"	25.0	0.68	81	60-140		
Surrogate: 1,2-DCA-d4	23.9		"	25.0		96	70-130		
Surrogate: Toluene-d8	23.8		"	25.0		95	70-130		
Surrogate: 4-BFB	25.0		"	25.0		100	70-130		

Matrix Spike Dup (3070211-MSD1)				Source: S307299-07		Prepared: 07/16/03		Analyzed: 07/17/03	
Chlorobenzene	24.2	0.50	ug/l	25.0	ND	97	60-140	8	25
1,1-Dichloroethene	19.4	0.50	"	25.0	ND	78	60-140	6	25
Trichloroethene	19.8	0.50	"	25.0	0.68	76	60-140	6	25
Surrogate: 1,2-DCA-d4	24.4		"	25.0		98	70-130		
Surrogate: Toluene-d8	23.2		"	25.0		93	70-130		
Surrogate: 4-BFB	23.7		"	25.0		95	70-130		

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 Project Manager: Deanna L. Harding

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 07/23/03 16:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070211 - EPA 5030B [P/T]
Blank (3070211-BLK1)

Prepared: 07/16/03 Analyzed: 07/17/03

Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
<i>Surrogate: 1,2-DCA-d4</i>	24.6		"	25.0		98	60-140			

Laboratory Control Sample (3070211-BS1)

Prepared: 07/16/03 Analyzed: 07/17/03

Methyl tert-butyl ether	19.4	2.0	ug/l	25.0		78	60-140			
<i>Surrogate: 1,2-DCA-d4</i>	23.3		"	25.0		93	60-140			

Matrix Spike (3070211-MS1)

Source: S307299-07

Prepared: 07/16/03 Analyzed: 07/17/03

Methyl tert-butyl ether	22.1	2.0	ug/l	25.0	ND	88	60-140			
<i>Surrogate: 1,2-DCA-d4</i>	23.9		"	25.0		96	60-140			

Matrix Spike Dup (3070211-MSD1)

Source: S307299-07

Prepared: 07/16/03 Analyzed: 07/17/03

Methyl tert-butyl ether	21.6	2.0	ug/l	25.0	ND	86	60-140	2	25	
<i>Surrogate: 1,2-DCA-d4</i>	24.4		"	25.0		98	60-140			

Batch 3070239 - EPA 5030B [P/T]
Blank (3070239-BLK1)

Prepared & Analyzed: 07/17/03

Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
<i>Surrogate: 1,2-DCA-d4</i>	26.5		"	25.0		106	60-140			

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 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070239 - EPA 5030B [P/T]										
Blank (3070239-BLK2)										
Prepared & Analyzed: 07/18/03										
Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
<i>Surrogate: 1,2-DCA-d4</i>	21.2		"	25.0		85	60-140			
Laboratory Control Sample (3070239-BS1)										
Prepared & Analyzed: 07/17/03										
Methyl tert-butyl ether	23.7	2.0	ug/l	24.8		96	60-140			
<i>Surrogate: 1,2-DCA-d4</i>	28.6		"	25.0		114	60-140			
Laboratory Control Sample (3070239-BS2)										
Prepared & Analyzed: 07/18/03										
Methyl tert-butyl ether	27.1	2.0	ug/l	24.8		109	60-140			
<i>Surrogate: 1,2-DCA-d4</i>	28.6		"	25.0		114	60-140			
Matrix Spike (3070239-MS1)										
Source: S307213-07 Prepared: 07/18/03 Analyzed: 07/19/03										
Methyl tert-butyl ether	32.3	2.0	ug/l	24.8	1.0	126	60-140			
<i>Surrogate: 1,2-DCA-d4</i>	26.9		"	25.0		108	60-140			
Matrix Spike Dup (3070239-MSD1)										
Source: S307213-07 Prepared: 07/18/03 Analyzed: 07/19/03										
Methyl tert-butyl ether	28.5	2.0	ug/l	24.8	1.0	111	60-140	12	25	
<i>Surrogate: 1,2-DCA-d4</i>	25.5		"	25.0		102	60-140			
Batch 3070255 - EPA 5030B [P/T]										
Blank (3070255-BLK1)										
Prepared & Analyzed: 07/21/03										
Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
<i>Surrogate: 1,2-DCA-d4</i>	24.3		"	25.0		97	60-140			

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Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070255 - EPA 5030B [P/T]

Laboratory Control Sample (3070255-BS1)				Prepared & Analyzed: 07/21/03						
Methyl tert-butyl ether	25.3	2.0	ug/l	24.8		102	60-140			
<i>Surrogate: 1,2-DCA-d4</i>	23.8		"	25.0		95	60-140			
Matrix Spike (3070255-MS1)		Source: S307231-04		Prepared: 07/21/03 Analyzed: 07/22/03						
Methyl tert-butyl ether	30.0	2.0	ug/l	24.8	0.38	119	60-140			
<i>Surrogate: 1,2-DCA-d4</i>	27.8		"	25.0		111	60-140			
Matrix Spike Dup (3070255-MSD1)		Source: S307231-04		Prepared: 07/21/03 Analyzed: 07/22/03						
Methyl tert-butyl ether	26.0	2.0	ug/l	24.8	0.38	103	60-140	14	25	
<i>Surrogate: 1,2-DCA-d4</i>	24.2		"	25.0		97	60-140			

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Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070166 - EPA 3510C Sep Funnel

Blank (3070166-BLK1)

Prepared & Analyzed: 07/14/03

N-Nitrosodimethylamine	ND	5.0	ug/l							
Phenol	ND	5.0	"							
Aniline	ND	5.0	"							
Bis(2-chloroethyl)ether	ND	5.0	"							
2-Chlorophenol	ND	10	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Benzyl alcohol	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
2-Methylphenol	ND	5.0	"							
Bis(2-chloroisopropyl)ether	ND	5.0	"							
4-Methylphenol	ND	5.0	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
Hexachloroethane	ND	5.0	"							
Nitrobenzene	ND	5.0	"							
Isophorone	ND	5.0	"							
2-Nitrophenol	ND	20	"							
2,4-Dimethylphenol	ND	5.0	"							
Bis(2-chloroethoxy)methane	ND	5.0	"							
Benzoic acid	ND	20	"							
2,4-Dichlorophenol	ND	10	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
Naphthalene	ND	10	"							
4-Chloroaniline	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
4-Chloro-3-methylphenol	ND	5.0	"							
2-Methylnaphthalene	ND	5.0	"							
Hexachlorocyclopentadiene	ND	20	"							
2,4,6-Trichlorophenol	ND	10	"							
2,4,5-Trichlorophenol	ND	10	"							
2-Chloronaphthalene	ND	5.0	"							
2-Nitroaniline	ND	5.0	"							
Dimethyl phthalate	ND	5.0	"							
Acenaphthylene	ND	5.0	"							
2,6-Dinitrotoluene	ND	5.0	"							
3-Nitroaniline	ND	5.0	"							

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 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070166 - EPA 3510C Sep Funnel
Blank (3070166-BLK1)

Prepared & Analyzed: 07/14/03

Acenaphthene	ND	5.0	ug/l							
2,4-Dinitrophenol	ND	20	"							
4-Nitrophenol	ND	20	"							
Dibenzofuran	ND	5.0	"							
2,4-Dinitrotoluene	ND	5.0	"							
Diethyl phthalate	ND	5.0	"							
4-Chlorophenyl phenyl ether	ND	5.0	"							
Fluorene	ND	5.0	"							
4,6-Dinitro-2-methylphenol	ND	20	"							
N-Nitrosodiphenylamine	ND	5.0	"							
Azobenzene	ND	5.0	"							
4-Nitroaniline	ND	5.0	"							
4-Bromophenyl phenyl ether	ND	5.0	"							
Hexachlorobenzene	ND	5.0	"							
Pentachlorophenol	ND	20	"							
Phenanthrene	ND	5.0	"							
Anthracene	ND	5.0	"							
Carbazole	ND	5.0	"							
Di-n-butyl phthalate	ND	5.0	"							
Fluoranthene	ND	5.0	"							
Pyrene	ND	5.0	"							
Benzyl butyl phthalate	ND	5.0	"							
3,3'-Dichlorobenzidine	ND	10	"							
Bis(2-ethylhexyl)phthalate	ND	5.0	"							
Benzo (a) anthracene	ND	5.0	"							
Chrysene	ND	5.0	"							
Di-n-octyl phthalate	ND	5.0	"							
Benzo (b) fluoranthene	ND	5.0	"							
Benzo (k) fluoranthene	ND	5.0	"							
Benzo (a) pyrene	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	5.0	"							
Dibenz (a,h) anthracene	ND	5.0	"							
Benzo (ghi) perylene	ND	5.0	"							
Surrogate: 2-Fluorophenol	62.5		"	150		42	11.2-69.6			
Surrogate: Phenol-d6	43.8		"	150		29	10-58.7			
Surrogate: Nitrobenzene-d5	114		"	100		114	36.7-118			

Sequoia Analytical - Sacramento

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070166 - EPA 3510C Sep Funnel										
Blank (3070166-BLK1)										
Prepared & Analyzed: 07/14/03										
Surrogate: 2-Fluorobiphenyl	97.5		"	100		98	44-112			
Surrogate: 2,4,6-Tribromophenol	136		"	150		91	41.5-117			
Surrogate: Terphenyl-d14	96.9		"	100		97	20.7-144			
Laboratory Control Sample (3070166-BS1)										
Prepared & Analyzed: 07/14/03										
Phenol	54.7	5.0	ug/l	150		36	22-117			
2-Chlorophenol	114	10	"	150		76	28-111			
1,4-Dichlorobenzene	90.0	5.0	"	100		90	29-108			
N-Nitrosodi-n-propylamine	107	5.0	"	100		107	29-119			
1,2,4-Trichlorobenzene	96.7	5.0	"	100		97	24-131			
4-Chloro-3-methylphenol	141	5.0	"	150		94	51-116			
Acenaphthene	97.6	5.0	"	100		98	58-120			
4-Nitrophenol	58.8	20	"	150		39	25-148			
2,4-Dinitrotoluene	106	5.0	"	100		106	60-140			
Pentachlorophenol	79.8	20	"	150		53	40-131			
Pyrene	94.5	5.0	"	100		94	52-127			
Surrogate: 2-Fluorophenol	62.4		"	150		42	11.2-69.6			
Surrogate: Phenol-d6	43.0		"	150		29	10-58.7			
Surrogate: Nitrobenzene-d5	105		"	100		105	36.7-118			
Surrogate: 2-Fluorobiphenyl	90.2		"	100		90	44-112			
Surrogate: 2,4,6-Tribromophenol	131		"	150		87	41.5-117			
Surrogate: Terphenyl-d14	82.5		"	100		82	20.7-144			
Laboratory Control Sample Dup (3070166-BSD1)										
Prepared & Analyzed: 07/14/03										
Phenol	52.7	5.0	ug/l	150		35	22-117	4	22	
2-Chlorophenol	113	10	"	150		75	28-111	0.9	39	
1,4-Dichlorobenzene	86.6	5.0	"	100		87	29-108	4	41	
N-Nitrosodi-n-propylamine	107	5.0	"	100		107	29-119	0	44	
1,2,4-Trichlorobenzene	92.2	5.0	"	100		92	24-131	5	48	
4-Chloro-3-methylphenol	134	5.0	"	150		89	51-116	5	30	
Acenaphthene	95.5	5.0	"	100		96	58-120	2	27	
4-Nitrophenol	56.3	20	"	150		38	25-148	4	44	
2,4-Dinitrotoluene	105	5.0	"	100		105	60-140	0.9	22	
Pentachlorophenol	73.7	20	"	150		49	40-131	8	33	
Pyrene	90.1	5.0	"	100		90	52-127	5	25	
Surrogate: 2-Fluorophenol	58.7		"	150		39	11.2-69.6			



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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070166 - EPA 3510C Sep Funnel

Laboratory Control Sample Dup (3070166-BSD1)

Prepared & Analyzed: 07/14/03

Surrogate: Phenol-d6	40.5		ug/l	150		27	10-58.7			
Surrogate: Nitrobenzene-d5	102		"	100		102	36.7-118			
Surrogate: 2-Fluorobiphenyl	86.4		"	100		86	44-112			
Surrogate: 2,4,6-Tribromophenol	117		"	150		78	41.5-117			
Surrogate: Terphenyl-d14	76.0		"	100		76	20.7-144			

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Notes and Definitions

- A-01 most of purgeable hydrocarbons area from MTBE
- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- HC-19 Discrete peak @ MTBE.
- HC-19a Discrete peak @ MTBE@3.9min at 110.0619ppb.
- HC-19b Discrete peak @ mtbe@3.9min at 88.5931ppb.
- HT-RS This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be useful for their intended purpose.
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference