

20-342

AUG 16 2002



# GETTLER-RYAN INC.

## TRANSMITTAL

July 30, 2002

G-R #386383

**TO:** Mr. James Brownell  
Delta Environmental Consultants, Inc.  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, California 95670

**CC:** Ms. Karen Streich  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

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

**RE:** Chevron Service Station  
#9-4800  
1700 Castro Street  
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	July 25, 2002	Groundwater Monitoring and Sampling Report Second Quarter - Event of June 15, 2002

**COMMENTS:**

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **August 13, 2002**, at which time the final report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577  
Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/9-4800-ks



# GETTLER-RYAN INC.

July 25, 2002  
G-R Job #386383

Ms. Karen Streich  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

**RE: Second Quarter Event of June 15, 2002**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

Dear Ms. Streich:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached 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. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

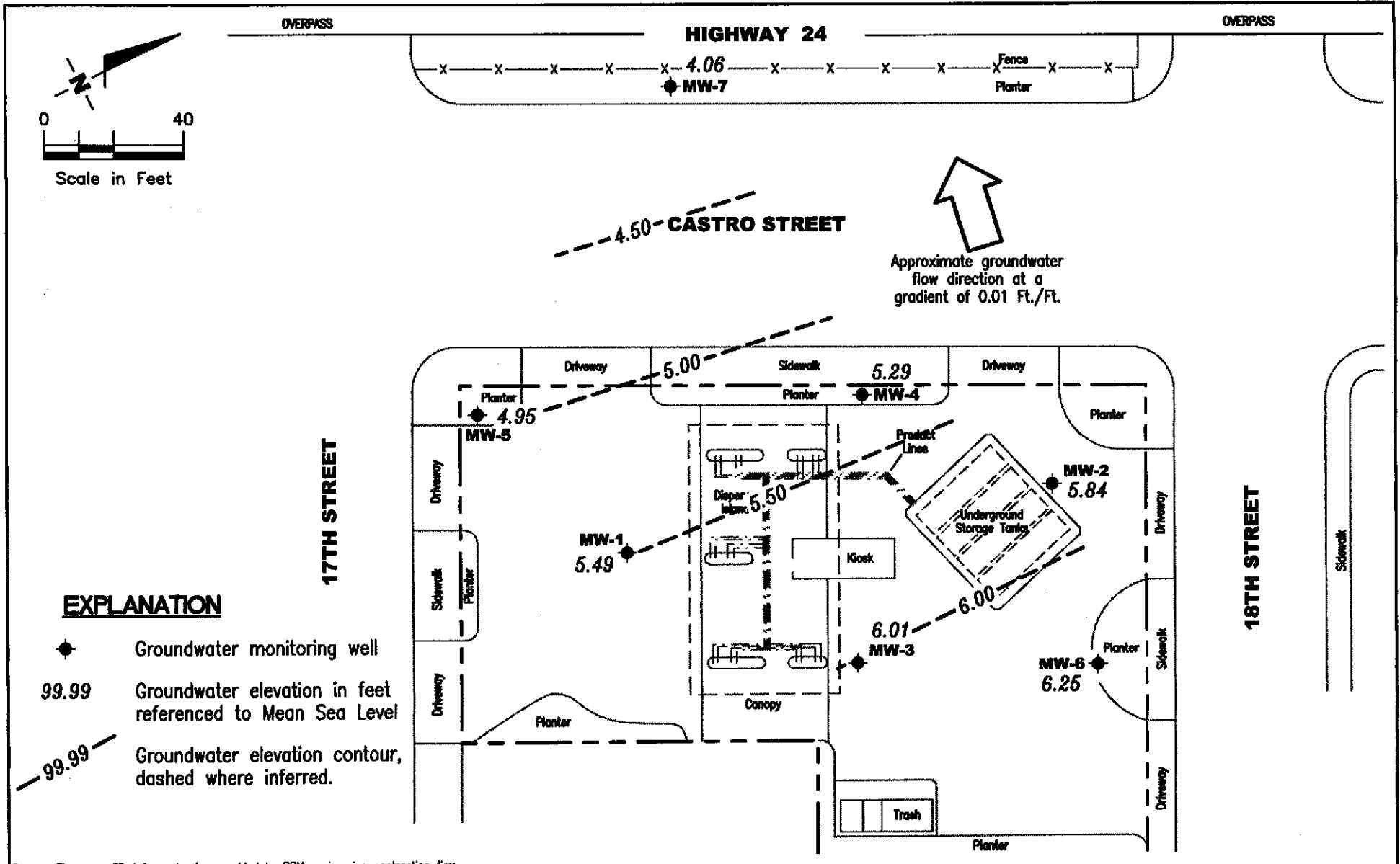
Sincerely,

Deanna L. Harding  
Project Coordinator

Hagop Kevork  
P.E. No. C55734



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



Source: Figure modified from drawing provided by RRM engineering contracting firm

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

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-4800  
 1700 Castro Street  
 Oakland, California

FIGURE

1

PROJECT NUMBER  
 386383

REVIEWED BY

DATE  
 June 15, 2002

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>										
06/04/97	30.75	4.39	25.82	71 <sup>1</sup>	890	100	110	29	150	<10
09/16/97	30.75	4.85	25.90	75 <sup>1</sup>	1,600	210	210	60	250	<10
12/17/97	30.75	4.88	25.87	65 <sup>1</sup>	940	120	100	41	160	<25
03/18/98	30.75	5.90	24.85	77 <sup>1</sup>	530	91	39	22	65	6.8
06/28/98	30.75	5.92	24.83	140 <sup>1</sup>	1,100	220	140	37	120	14
09/07/98	30.75	5.56	25.19	280 <sup>1</sup>	1,700	530	86	84	240	49
12/09/98	30.75	5.10	25.65	240 <sup>1</sup>	1,700	240	130	100	270	32
03/11/99	30.75	5.30	25.45	98 <sup>1</sup>	353	53.9	28.6	20.5	56.1	14.1
06/17/99	30.75	5.39	25.36	217 <sup>1</sup>	810	270	150	95	340	15
09/29/99	30.75	5.13	25.62	153 <sup>1</sup>	659	76	49.7	35.1	118	12.6
12/14/99	30.75	5.07	25.68	188 <sup>1,2</sup>	2,760	287	199	139	502	<12.5
03/09/00 <sup>3</sup>	30.75	5.54	25.21	166 <sup>1</sup>	1,590	238	94.9	72.2	247	22.3
06/10/00	30.75	5.73	25.02	--	1,460	242	47.8	83.8	151	97.3
09/30/00	30.75	5.30	25.45	240 <sup>7</sup>	650 <sup>6</sup>	130	49	69	190	21
12/22/00	30.75	5.05	25.70	200 <sup>9</sup>	640 <sup>6</sup>	110	33	58	160	68
03/01/01	30.75	5.25	25.50	211 <sup>7</sup>	1,500 <sup>6</sup>	210	67.9	109	320	87.3
05/04/01	30.75	5.41	25.34	130 <sup>7</sup>	991	127	32.6	73.0	137	95.4
09/05/01	30.75	5.16	25.59	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	30.75	5.17	25.58	210	2,000	220	16	110	400	34
03/15/02	30.75	5.60	25.15	--	--	--	--	--	--	--
06/15/02	30.75	5.49	25.26	140	350	54	0.61	12	40	130
<b>MW-2</b>										
06/04/97	30.00	5.13	24.87	4,000 <sup>1</sup>	13,000	790	30	420	1,700	4000
09/16/97	30.00	5.06	24.94	2,200 <sup>1</sup>	4,000	360	9.7	210	460	1500
12/17/97	30.00	5.18	24.82	2,100 <sup>1</sup>	4,100	380	<10	200	460	2100
03/18/98	30.00	6.43	23.57	3,700 <sup>1</sup>	8,400	1,800	<50	350	630	13,000
06/28/98 <sup>4</sup>	30.00	6.21	23.79	4,400 <sup>1</sup>	9,300	740	340	710	2,300	3800
09/07/98	30.00	5.78	24.22	3,100 <sup>1</sup>	9,900	1,000	150	640	1,800	4500/4100 <sup>5</sup>
12/09/98	30.00	5.31	24.69	1,900 <sup>1</sup>	8,500	860	74	610	960	2600/2600 <sup>5</sup>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* ( <i>ft.</i> )	GWE ( <i>mst</i> )	DTW ( <i>ft.</i> )	TPH-D ( <i>ppb</i> )	TPH-G ( <i>ppb</i> )	B ( <i>ppb</i> )	T ( <i>ppb</i> )	E ( <i>ppb</i> )	X ( <i>ppb</i> )	MTBE ( <i>ppb</i> )
<b>MW-2 (cont)</b>										
03/11/99	30.00	5.79	24.21	2,700 <sup>1</sup>	12,500	1,520	42.2	645	2,250	3400/5050 <sup>5</sup>
06/17/99	30.00	5.69	24.31	7,150 <sup>1</sup>	27,000	2,200	260	1500	5,900	4700
09/29/99	30.00	5.45	24.55	3,030 <sup>1</sup>	6910	582	11.1	491	1,170	1970
12/14/99	30.00	5.39	24.61	615 <sup>1,2</sup>	4230	282	12.3	284	690	631
03/09/00 <sup>3</sup>	30.00	6.08	23.92	3,300 <sup>1</sup>	15,300	1,110	39.4	1,040	3,030	2,470
06/10/00	30.00	6.13	23.87	--	7,360	560	40.7	627	1,280	1,260
09/30/00	30.00	5.67	24.33	1,800 <sup>7</sup>	3,600 <sup>6</sup>	280	<10	420	430	290
12/22/00	30.00	5.39	24.61	870 <sup>9</sup>	1,500 <sup>6</sup>	100	<1.3	160	59	380
03/01/01	30.00	5.79	24.21	1,320 <sup>7</sup>	2,340 <sup>6</sup>	171	<5.00	238	157	864
05/04/01	30.00	5.83	24.17	3,100 <sup>7</sup>	11,900	199	33.9	1,420	290	3,890
09/05/01	30.00	5.45	24.55	2,200	3,300	170	1.7	310	110	1,100
12/21/01	30.00	5.60	24.40	980	1,100	58	0.72	120	14	450
03/15/02	30.00	6.05	23.95	2,200	5,000	250	9.1	470	430	1,800
06/15/02	30.00	5.84	24.16	3,700	5,200	240	5.2	540	210	2,200
<b>MW-3</b>										
06/04/97	31.32	5.27	26.05	<50	190	26	20	1.5	16	8.2
09/16/97	31.32	5.17	26.15	<50	270	58	53	6.1	30	21
12/17/97	31.32	5.22	26.10	<50	290	50	54	8.1	37	21
03/18/98	31.32	6.42	24.90	<50	390	140	33	4.6	30	94
06/28/98	31.32	6.39	24.93	<50	290	90	11	1.6	13	150
09/07/98	31.32	5.97	25.35	<50	170	46	20	4.3	19	120
12/09/98	31.32	5.41	25.91	55 <sup>1</sup>	660	120	93	22	72	150
03/11/99	31.32	5.85	25.47	<50	653	136	69.5	13.7	63.8	144
06/17/99	31.32	5.90	25.42	103 <sup>1</sup>	530	190	110	24	88	210
09/29/99	31.32	5.61	25.71	232 <sup>1</sup>	433	97.8	61.4	16.9	56.6	156
12/14/99	31.32	5.55	25.77	<50 <sup>2</sup>	8650	1040	795	212	800	995
03/09/00 <sup>3</sup>	31.32	6.14	25.18	74.6 <sup>1</sup>	1170	304	103	25.2	114	539
06/10/00	31.32	6.29	25.03	--	359	63.8	27.8	10.5	35.4	393
09/30/00	31.32	5.79	25.53	100 <sup>8</sup>	220 <sup>6</sup>	42	33	12	38	67

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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-3 (cont)</b>										
12/22/00	31.32	5.52	25.80	110 <sup>9</sup>	370 <sup>6</sup>	96	48	18	58	180
03/01/01	31.32	5.75	25.57	144 <sup>7</sup>	912 <sup>6</sup>	218	89.0	36.0	110	310
05/04/01	31.32	5.96	25.36	<50	1,260	146	79.6	38.2	101	1,070
09/05/01	31.32	5.61	25.71	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	31.32	5.67	25.65	180	850	160	11	32	84	300
03/15/02	31.32	6.15	25.17	--	--	--	--	--	--	--
<b>06/15/02</b>	<b>31.32</b>	<b>6.01</b>	<b>25.31</b>	<b>&lt;50</b>	<b>550</b>	<b>110</b>	<b>3.0</b>	<b>23</b>	<b>58</b>	<b>590</b>
<b>MW-4</b>										
04/08/99	30.13	--	--	--	130	3.1	<0.5	<0.5	7.7	4,700
06/17/99	30.13	5.19	24.94	3,780 <sup>1</sup>	590	58	<5.0	<5.0	160	6,200
09/29/99	30.13	4.96	25.17	1,130 <sup>1</sup>	692	10.7	<2.5	5.51	236	7,840
12/14/99	30.13	4.91	25.22	571 <sup>1,2</sup>	625	<10	3.83	<10	94.6	4,470
03/09/00 <sup>3</sup>	30.13	5.45	24.68	600 <sup>1</sup>	402	3.76	1.18	<0.5	71.4	3,140
06/10/00	30.13	5.53	24.60	--	<1,000	13.2	<10.0	<10.0	97.8	3,080
09/30/00	30.13	5.09	25.04	1,400 <sup>7</sup>	280 <sup>6</sup>	21	0.67	6.3	60	3,300
12/22/00	30.13	4.90	25.23	740 <sup>9</sup>	240 <sup>6</sup>	2.2	<0.50	1.3	25	2,200
03/01/01	30.13	5.15	24.98	661 <sup>7</sup>	193	2.31	<0.500	1.34	12.1	1,220
05/04/01	30.13	5.25	24.88	1,100 <sup>7</sup>	722	12.0	<5.00	17.1	89.4	2,390
09/05/01	30.13	4.96	25.17	2,500	1,400	23	2.2	19	260	2,300
12/21/01	30.13	5.06	25.07	1,100	310	2.9	<0.50	2.6	32	860
03/15/02	30.13	5.44	24.69	3,100	520	5.0	<0.50	15	6.8	2,700
<b>06/15/02</b>	<b>30.13</b>	<b>5.29</b>	<b>24.84</b>	<b>2,400</b>	<b>950</b>	<b>16</b>	<b>3.6</b>	<b>41</b>	<b>100</b>	<b>2,200/2,400<sup>12</sup></b>
<b>MW-5</b>										
04/08/99	30.93	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/17/99	30.93	4.93	26.00	53.8 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	30.93	4.73	26.20	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	30.93	4.61	26.32	<50 <sup>2</sup>	<50	<0.5	<0.5	<0.5	<0.5	0.598

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-5 (cont)</b>										
03/09/00 <sup>3</sup>	30.93	5.00	25.93	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/10/00	30.93	5.21	25.72	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	30.93	4.79	26.14	130 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00	30.93	4.60	26.33	250 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	9.1
03/01/01	30.93	4.77	26.16	77.4 <sup>7</sup>	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/04/01	30.93	4.89	26.04	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--
09/05/01	30.93	4.72	26.21	SAMPLED SEMI-ANNUALLY			--	--	--	--
12/21/01	30.93	4.73	26.20	110	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/15/02	30.93	5.06	25.87	--	--	--	--	--	--	--
06/15/02	30.93	4.95	25.98	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5
<b>MW-6</b>										
04/08/99	30.58	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	4.5
06/17/99	30.58	5.99	24.59	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	30.58	5.81	24.77	<50	<50	<0.5	<0.5	<0.5	<0.5	4.46
12/14/99	30.58	5.74	24.84	<50 <sup>2</sup>	<50	<0.5	<0.5	<0.5	<0.5	4.13
03/09/00 <sup>3</sup>	30.58	6.49	24.09	<50	<50	<0.5	<0.5	<0.5	<0.5	2.82
06/10/00	30.58	6.58	24.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	30.58	6.00	24.58	110 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	7.3
12/22/00	30.58	5.75	24.83	100 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	4.5
03/01/01	30.58	6.07	24.51	141 <sup>7</sup>	<50.0	<0.500	<0.500	<0.500	<0.500	7.52
05/04/01	30.58	6.26	24.32	<50	<50.0	<0.500	<5.00	<5.00	<5.00	2.74
09/05/01	30.58	5.99	24.59	SAMPLED SEMI-ANNUALLY			--	--	--	--
12/21/01	30.58	5.93	24.65	200	<50	<0.50	<0.50	<0.50	<1.5	8.5
03/15/02	30.58	6.44	24.14	--	--	--	--	--	--	--
06/15/02	30.58	6.25	24.33	<50	<50	<0.50	<0.50	<0.50	<1.5	4.3

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-7</b>										
05/04/01 <sup>11</sup>	31.90	4.03	27.87	<50	<50.0	<0.500	<5.00	<5.00	<5.00	567/470 <sup>12</sup>
09/05/01	31.90	3.86	28.04	<50	<50	<0.50	<0.50	<0.50	<1.5	1,400/1,300 <sup>12</sup>
12/21/01	31.90	3.04	28.86	210	<50	<0.50	<0.50	<0.50	<1.5	620/670 <sup>12</sup>
03/15/02	31.90	4.18	27.72	<50	<50	<0.50	<0.50	<0.50	<1.5	320/350 <sup>12</sup>
06/15/02	31.90	4.06	27.84	<50	<50	<0.50	<0.50	<0.50	<1.5	850/960 <sup>12</sup>
<b>TRIP BLANK</b>										
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/17/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/18/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
06/17/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/09/00 <sup>3</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/10/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00 <sup>10</sup>	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/01/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/04/01	--	--	--	--	<50.0	<0.500	<5.00	<5.00	<5.00	<0.500
09/05/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
<b>QA</b>										
12/21/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to June 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing	TPH-G = Total Petroleum Hydrocarbons as Gasoline	-- = Not Measured/Not Analyzed
(ft.) = Feet	B = Benzene	(ppb) = Parts per Billion
GWE = Groundwater Elevation	T = Toluene	QA = Quality Assurance
(msl) = Mean sea level	E = Ethylbenzene	
DTW = Depth to Water	X = Xylenes	
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	

\* TOC elevation was surveyed on April 11, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was the top of curb at the south end of the return at the southeast corner of Castro Street and 18th Street. (Benchmark Elevation = 29.65 feet, msl).

- 1 Chromatogram pattern indicates an unidentified hydrocarbon.
- 2 Sample was extracted outside EPA recommended holding time.
- 3 TPH-G, B, T, E, X and MTBE was analyzed outside EPA recommended holding time.
- 4 EPA Method 8240.
- 5 Confirmation run.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Laboratory report indicates unidentified hydrocarbons >C16.
- 9 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 10 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 11 Well development performed.
- 12 MTBE by EPA Method 8260.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Chevron Service Station #9-4800  
 1700 Castro Street  
 Oakland, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
<b>MW-4</b>						
04/08/99	<25,000	<5000	5400	<100	<100	<100
06/15/02	--	840	2,400	<2	<2	110
<b>MW-5</b>						
04/08/99	<500	<100	<2.0	<2.0	<2.0	<2.0
<b>MW-6</b>						
04/08/99	<500	<100	5.6	<2.0	<2.0	<2.0
<b>MW-7</b>						
05/04/01	<500	57	470	<2.0	<2.0	11
09/05/01	<500	<100	1,300	<2	<2	32
12/21/01	<500	<100	670	<2	<2	15
03/15/02	<500	<100	350	<2	<2	8
06/15/02	--	<100	960	<2	<2	18

**EXPLANATIONS:**

Groundwater laboratory analytical results prior to May 4, 2001, were compiled from reports prepared by Blaine Tech Services, Inc.

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

(ppb) = Parts per billion

-- = Not Analyzed

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET.**

Client/CHEVRON

Facility # 9-4800

Job #: 386383

Address: 1700 Casteo St.

Date: 6/15/0

City: Oakland, CA

Sampler: G.R.

Well ID MW-1

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed 0 (Gallons)

Total Depth 29.90 ft.

Depth to Water 25.26 ft.

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

4.64 x VF 0.17 = 0.79 x 3 (case volume) = Estimated Purge Volume: 2.5 (gal.)

Purge Equipment:

- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: \_\_\_\_\_

Sampling Equipment:

- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: \_\_\_\_\_

Starting Time: 0925

Weather Conditions: Clear

Sampling Time: 1000

Water Color: Clear Odor: NO

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: \_\_\_\_\_

Did well de-water? NO

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>0940</u>	<u>1.5</u>	<u>7.22</u>	<u>759</u>	<u>19.1</u>			
<u>0945</u>	<u>1.5</u>	<u>7.16</u>	<u>757</u>	<u>19.1</u>			
<u>0950</u>	<u>2.5</u>	<u>7.07</u>	<u>749</u>	<u>19.1</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 VOA Vials</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>"</u>	<u>2 Amber</u>	<u>NO</u>	<u>N.D</u>	<u>"</u>	<u>TPH-D</u>

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET.**

Client/ CHEVRON  
 Facility # 9-4800  
 Address: 1700 Casteo St.  
 City: Oakland, CA

Job#: 386383  
 Date: 6/15/02  
 Sampler: G. Reger

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 29.65 ft.  
 Depth to Water: 24.16 ft.

Well Condition: OK  
 Hydrocarbon Thickness: 0 (feet) Amount Bailed (Gallons): 0  

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

5.49 x VF .17 = .93 x 3 (case volume) = Estimated Purge Volume: 3 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1010  
 Sampling Time: 1045  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? No

Weather Conditions: Clear  
 Water Color: Clear Odor: Yes  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1020</u>	<u>1</u>	<u>6.89</u>	<u>742</u>	<u>18.9</u>			
<u>1028</u>	<u>2</u>	<u>6.84</u>	<u>745</u>	<u>18.9</u>			
<u>1035</u>	<u>3</u>	<u>6.80</u>	<u>751</u>	<u>19.0</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 Water</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPHIG)/btex/mtbe</u>
<u>11</u>	<u>2 Amber</u>	<u>Y</u>	<u>N.P.</u>	<u>11</u>	<u>TPH-D</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Ch. 9-4800  
 Address: 1700 Castro St.  
 City: Oakland CA

Job #: 386383  
 Date: 6/15/02  
 Sampler: G. Page

Well ID: MW-3  
 Well Diameter: 2 in.  
 Total Depth: 29.41 ft.  
 Depth to Water: 25.31 ft.

Well Condition: OK  
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
6" = 1.50 12" = 5.80

4.10 X VF 1.7 = 7 X 3 (case volume) = Estimated Purge Volume: 21 (gal.) ~~2.5~~

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 0840  
 Sampling Time: 0915  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? No

Weather Conditions: Clear  
 Water Color: Clear Odor: Yes  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>0850</u>	<u>.9</u>	<u>7.13</u>	<u>925</u>	<u>18.6</u>			
<u>0900</u>	<u>1.8</u>	<u>7.09</u>	<u>914</u>	<u>18.6</u>			
<u>0905</u>	<u>2.5</u>	<u>7.01</u>	<u>893</u>	<u>18.6</u>			

### LABORATORY INFORMATION

SAMPLE ID	(B) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
					TPHG/BTEX/MTOE	TPH-D
<u>MW-3</u>	<u>3 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>Lancaster</u>		
<u>1</u>	<u>2 Ambe</u>	<u>Y</u>	<u>ND</u>	<u>IL</u>		

COMMENTS: \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET.**

Client/ **CHEVRON**

Facility # 9-4800

Job#: 386383

Address: 1700 Casteo St.

Date: 6/15/02

City: Oakland, CA

Sampler: G. Ayer

Well ID MW-4

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 28.29 ft.

Depth to Water 24.84 ft.

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

3.45 x VF 0.17 = .59 x 3 (case volume) = Estimated Purge Volume: 2 (gal.)

Purge Equipment:

- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: \_\_\_\_\_

Sampling Equipment:

- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: \_\_\_\_\_

Starting Time: 1055

Weather Conditions: Clear

Sampling Time: 1140

Water Color: Clear Odor: No

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: \_\_\_\_\_

Did well de-water? No

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1110</u>	<u>1.66</u>	<u>7.14</u>	<u>659</u>	<u>18.5</u>			
<u>1117</u>	<u>1.3</u>	<u>6.99</u>	<u>654</u>	<u>18.5</u>			
<u>1125</u>	<u>2</u>	<u>6.92</u>	<u>651</u>	<u>18.5</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>600 Vials</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPHIG/tex/mtbe 30x</u>
<u>"</u>	<u>2 Amber</u>	<u>Y</u>	<u>NP</u>	<u>"</u>	<u>TPH-D</u>

\$8260

COMMENTS: \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET.**

Client/CHEVRON  
 Facility # 9-4800  
 Address: 1700 Casteo St.  
 City: Oakland, CA

Job#: 386383  
 Date: 6/15/0-  
 Sampler: G.R.

Well ID MW-5  
 Well Diameter 2 in.  
 Total Depth 27.95 ft.  
 Depth to Water 25.98 ft.

Well Condition: OK

Hydrocarbon Thickness:	<u>0</u> (feet)	Amount Bailed (product/water):	<u>2</u> (Gallons)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

1.97 x VF 17 = 33 X 3 (case volume) = Estimated Purge Volume: 1 (gal.)

Purge Equipment:

- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: \_\_\_\_\_

Sampling Equipment:

- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: \_\_\_\_\_

Starting Time: 0710  
 Sampling Time: 0740  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? NO

Weather Conditions: Clear  
 Water Color: Clear Odor: NO  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>0720</u>	<u>.37</u>	<u>6.84</u>	<u>956</u>	<u>19.0</u>			
<u>0725</u>	<u>.66</u>	<u>6.70</u>	<u>949</u>	<u>19.0</u>			
<u>0730</u>	<u>1.0</u>	<u>6.71</u>	<u>945</u>	<u>19.0</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3 VOA Vials</u>	<u>Y</u>	<u>HEC</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>1</u>	<u>2 Amber</u>	<u>Y</u>	<u>N.P.</u>	<u>1</u>	<u>TPH-D</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**WELL MONITORING/SAMPLING  
FIELD DATA SHEET.**

Client/CHEVRON

Facility # 9-4800

Job#: 386383

Address: 1700 Castro St.

Date: 6/15/02

City: Oakland, CA

Sampler: G. Lopez

Well ID MW-6

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed 0 (Gallons)

Total Depth 28.06 ft.

Depth to Water 24.33 ft.

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

3.73 X VF 0.17 = .63 X 3 (case volume) = Estimated Purge Volume: 2 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 0750

Weather Conditions: Clear

Sampling Time: 0830

Water Color: Clear Odor: NO

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: \_\_\_\_\_

Did well de-water? NO

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>0800</u>	<u>.5</u>	<u>7.69</u>	<u>686</u>	<u>16.2</u>			
<u>0810</u>	<u>1</u>	<u>7.69</u>	<u>679</u>	<u>16.3</u>			
<u>0820</u>	<u>2</u>	<u>7.51</u>	<u>675</u>	<u>16.3</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 NoA Vials</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>1</u>	<u>2 Amber</u>	<u>Y</u>	<u>NP</u>	<u>"</u>	<u>TPH-D</u>

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET.**

Client/ **CHEVRON**

Facility # 9-4800

Job#: 386383

Address: 1700 Castro St.

Date: 6/15/02

City: Oakland, CA

Sampler: G. Rivers

Well ID MW-7

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed 0 (Gallons)

Total Depth 30.00 ft.

Depth to Water 27.84 ft.

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

2.16 X VF 0.17 = .37 X 3 (case volume) = Estimated Purge Volume: 1.5 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 0630

Weather Conditions: Clear

Sampling Time: 0705

Water Color: Clear Odor: No

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: \_\_\_\_\_

Did well de-water? No

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>0640</u>	<u>1.5</u>	<u>7.14</u>	<u>521</u>	<u>14.2</u>			
<u>0645</u>	<u>1</u>	<u>7.09</u>	<u>523</u>	<u>14.3</u>			
<u>0650</u>	<u>1.5</u>	<u>6.95</u>	<u>515</u>	<u>16.3</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>600AVials</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe 50xys 5/8/02</u>
<u>1</u>	<u>2 Amber</u>	<u>Y</u>	<u>N.P</u>	<u>1</u>	<u>TPH-D</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10905 Sample #: 3837185-92 SCR#: Gr # 811587

061702-002

Facility #: <u>9-4800</u> Job# <u>386383</u> Global ID # <u>T0600102076</u>				Matrix: <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		<b>Analyses Requested</b>						<b>Preservative Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other																																																																																																																																																																																													
Site Address: <u>1700 CASTRO STREET, OAKLAND, CA</u>				Total Number of Containers: <u>2</u>		Preservation Codes: <u>H</u> <u>H</u> <u>H</u>						<input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits																																																																																																																																																																																													
Chevron PM: <u>Karen Streich</u> Lead Consultant: <u>Delta/G-R</u>				Grab <input type="checkbox"/> Composite <input type="checkbox"/>		BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 <input checked="" type="checkbox"/> TPH 8015 MOD GRC <input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> 8260 full scan <input type="checkbox"/> 5 Oxygenates <input checked="" type="checkbox"/> <u>Retention by Date</u> Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>						Consultant/Office: <u>G-R Inc. 6747 Sierra Ct. Dublin, CA 94568</u>																																																																																																																																																																																													
Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u>				Service Order #: _____ <input type="checkbox"/> Non SAR: _____		Sample Identification:						Comments / Remarks																																																																																																																																																																																													
Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u>				Date Collected: <u>6/15/02</u> Time Collected: <u>1000</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Date Collected</th> <th>Time Collected</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Oil</th> <th>Air</th> <th>Total Number of Containers</th> <th>BTEX + MTBE 8260</th> <th>8021</th> <th>TPH 8015 MOD GRC</th> <th>TPH 8015 MOD DRO</th> <th>Silica Gel Cleanup</th> <th>8260 full scan</th> <th>5 Oxygenates</th> <th>Retention by Date</th> <th>Lead 7420</th> <th>7421</th> </tr> </thead> <tbody> <tr> <td>QA</td> <td>6/15/02</td> <td>—</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-1</td> <td></td> <td>1000</td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td>5</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-2</td> <td></td> <td>1045</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-3</td> <td></td> <td>0915</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-4</td> <td></td> <td>1140</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-5</td> <td></td> <td>0740</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-6</td> <td></td> <td>0830</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-7</td> <td></td> <td>0705</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Sample ID	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	8021	TPH 8015 MOD GRC	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	5 Oxygenates	Retention by Date	Lead 7420	7421	QA	6/15/02	—							2	X	X	X	X	X	X	X	X				MW-1		1000	X		X	X			5	X	X	X	X	X	X	X	X				MW-2		1045							5	X	X	X	X	X	X	X	X				MW-3		0915							5	X	X	X	X	X	X	X	X				MW-4		1140							5	X	X	X	X	X	X	X	X				MW-5		0740							5	X	X	X	X	X	X	X	X				MW-6		0830							5	X	X	X	X	X	X	X	X				MW-7		0705							8	X	X	X	X	X	X	X	X				Turnaround Time Requested (TAT) (please circle): STD TAT: 24 hour      72 hour      48 hour 4 day                      5 day	
Sample ID	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	8021	TPH 8015 MOD GRC	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	5 Oxygenates	Retention by Date	Lead 7420	7421																																																																																																																																																																																						
QA	6/15/02	—							2	X	X	X	X	X	X	X	X																																																																																																																																																																																								
MW-1		1000	X		X	X			5	X	X	X	X	X	X	X	X																																																																																																																																																																																								
MW-2		1045							5	X	X	X	X	X	X	X	X																																																																																																																																																																																								
MW-3		0915							5	X	X	X	X	X	X	X	X																																																																																																																																																																																								
MW-4		1140							5	X	X	X	X	X	X	X	X																																																																																																																																																																																								
MW-5		0740							5	X	X	X	X	X	X	X	X																																																																																																																																																																																								
MW-6		0830							5	X	X	X	X	X	X	X	X																																																																																																																																																																																								
MW-7		0705							8	X	X	X	X	X	X	X	X																																																																																																																																																																																								
Data Package Options (please circle if required): QC Summary      Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk				Relinquished by: <u>[Signature]</u> Date: <u>6/17/02</u> Time: <u>1345</u>		Received by: <u>[Signature]</u> Date: <u>6/17/02</u> Time: <u>1217</u>						Relinquished by: <u>[Signature]</u> Date: <u>6-17-02</u> Time: <u>1530</u>		Received by: <u>Airborne</u> Date: <u>6/17/02</u> Time: <u>1345</u>																																																																																																																																																																																											
Relinquished by Commercial Carrier: UPS      FedEx      Other: <u>Airborne</u>				Received by: <u>[Signature]</u> Date: <u>6/17/02</u> Time: <u>1345</u>						Temperature Upon Receipt: <u>2-4.0°C</u>		Custody Seals Intact? (Yes) No																																																																																																																																																																																													



## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd E4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

RECEIVED

JUN 23 2002

GETTLER-RYAN, INC.  
GENERAL CONTRACTOR

### SAMPLE GROUP

The sample group for this submittal is 811587. Samples arrived at the laboratory on Tuesday, June 18, 2002. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
QA-T-020615	NA	Water	3837185
MW-1-W-020615	Grab	Water	3837186
MW-2-W-020615	Grab	Water	3837187
MW-3-W-020615	Grab	Water	3837188
MW-4-W-020615	Grab	Water	3837189
MW-5-W-020615	Grab	Water	3837190
MW-6-W-020615	Grab	Water	3837191
MW-7-W-020615	Grab	Water	3837192

### METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Questions? Contact your Client Services Representative  
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

  
**Robert E. Mellinger**  
Sr Chemist/Coordinator



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3837185

Collected: 06/15/2002 00:00

Account Number: 10905

Submitted: 06/18/2002 08:45  
 Reported: 07/01/2002 at 12:42  
 Discard: 08/01/2002

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

QA-T-020615 NA Water  
 Facility# 94800 Job# 386383 GRD  
 1700 CASTRO ST-OAKLAND T0600102076 QA

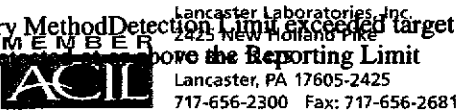
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/19/2002 20:37	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/19/2002 20:37	Matthew E Barton	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/19/2002 20:37	Matthew E Barton	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected above the Reporting Limit





Lancaster Laboratories Sample No. **WW 3837186**

Collected: 06/15/2002 10:00 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45

ChevronTexaco

Reported: 07/01/2002 at 12:42

6001 Bollinger Canyon Rd L4310

Discard: 08/01/2002

San Ramon CA 94583

MW-1-W-020615 Grab Water

Facility# 94800 Job# 386383 GRD

1700 CASTRO ST-OAKLAND T0600102076 MW-1

816M1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	140.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	350.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	54.	0.50	ug/l	1
00777	Toluene	108-88-3	0.61	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	12.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	40.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	130.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	06/25/2002 02:42	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/20/2002 04:13	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 04:13	Matthew E Barton	1

#=Laboratory Method Detection Limit Exceeded target detection limit

N.D.=Not detected above the Reporting Limit



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3837186**

Collected: 06/15/2002 10:00 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45

Reported: 07/01/2002 at 12:42

Discard: 08/01/2002

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-1-W-020615 Grab Water

Facility# 94800 Job# 386383 GRD

1700 CASTRO ST-OAKLAND T0600102076 MW-1

816M1

01146 GC VOA Water Prep

SW-846 5030B

1 06/20/2002 04:13

Matthew E Barton

n.a.

07003 Extraction - DRO (Waters)

TPH by CA LUFT

1 06/21/2002 09:00

William P Stafford

1

#=Laboratory Method Detection Limit exceeded target detection limit  
N.D.=Not detected above the Reporting Limit



Lancaster Laboratories, Inc.  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





Lancaster Laboratories Sample No. WW 3837187

Collected: 06/15/2002 10:45 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45

ChevronTexaco

Reported: 07/01/2002 at 12:42

6001 Bollinger Canyon Rd L4310

Discard: 08/01/2002

San Ramon CA 94583

MW-2-W-020615 Grab Water  
 Facility# 94800 Job# 386383 GRD  
 1700 CASTRO ST-OAKLAND T0600102076 MW-2

816M2

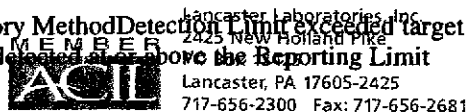
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	3,700.	130.	ug/l	5
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	5,200.	250.	ug/l	5
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	240.	1.0	ug/l	5
00777	Toluene	108-88-3	5.2	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	540.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	210.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	2,200.	2.5	ug/l	5
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	06/26/2002 05:39	Tracy A Cole	5
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/20/2002 04:45	Matthew E Barton	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 04:45	Matthew E Barton	5

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected or above the Reporting Limit





Lancaster Laboratories Sample No. WW 3837187

Collected: 06/15/2002 10:45 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45

Reported: 07/01/2002 at 12:42

Discard: 08/01/2002

MW-2-W-020615

Grab Water

Facility# 94800 Job# 386383

GRD

1700 CASTRO ST-OAKLAND T0600102076 MW-2

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

816M2

01146 GC VOA Water Prep

SW-846 5030B

1 06/20/2002 04:45

Matthew E Barton

n.a.

07003 Extraction - DRO (Waters)

TPH by CA LUFT

1 06/21/2002 09:00

William P Stafford

1

#=Laboratory Method Detection Limit exceeded target detection limit  
N.D.=Not detected above the Reporting Limit



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3837188**

Collected: 06/15/2002 09:15 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45  
 Reported: 07/01/2002 at 12:42  
 Discard: 08/01/2002

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

MW-3-W-020615 Grab Water  
 Facility# 94800 Job# 386383 GRD  
 1700 CASTRO ST-OAKLAND T0600102076 MW-3

816M3

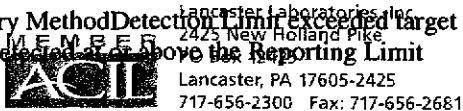
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	550.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	110.	0.50	ug/l	1
00777	Toluene	108-88-3	3.0	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	23.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	58.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	590.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	06/25/2002 03:27	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/20/2002 05:17	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 05:17	Matthew E Barton	1

#=Laboratory Method Detection Limit Exceeded target detection limit  
 N.D.=Not detected or above the Reporting Limit





Lancaster Laboratories Sample No. WW 3837188

Collected: 06/15/2002 09:15 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45

ChevronTexaco

Reported: 07/01/2002 at 12:42

6001 Bollinger Canyon Rd L4310

Discard: 08/01/2002

San Ramon CA 94583

MW-3-W-020615 Grab Water

Facility# 94800 Job# 386383 GRD

1700 CASTRO ST-OAKLAND T0600102076 MW-3

816M3

01146	GC VOA Water Prep	SW-846 5030B	1	06/20/2002 05:17	Matthew E Barton	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	06/21/2002 09:00	William P Stafford	1

#=Laboratory Method Detection Limit exceeded target detection limit  
N.D.=Not detected above the Reporting Limit



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3837189**

Collected: 06/15/2002 11:40 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45  
 Reported: 07/01/2002 at 12:42  
 Discard: 08/01/2002

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

MW-4-W-020615 Grab Water  
 Facility# 94800 Job# 386383 GRD  
 1700 CASTRO ST-OAKLAND T0600102076 MW-4

816M4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	2,400.	54.	ug/l	2
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	950.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	16.	0.50	ug/l	1
00777	Toluene	108-88-3	3.6	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	41.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	100.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	2,200.	2.5	ug/l	5
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	2,400.	5.0	ug/l	10
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	110.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	840.	100.	ug/l	1

State of California Lab Certification No. 2116

#=Laboratory Method Detection Limit Exceeded target detection limit  
 N.D.=Not detected or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3837189

Collected: 06/15/2002 11:40 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45  
 Reported: 07/01/2002 at 12:42  
 Discard: 08/01/2002

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

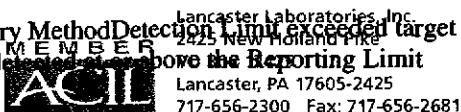
MW-4-W-020615 Grab Water  
 Facility# 94800 Job# 386383 GRD  
 1700 CASTRO ST-OAKLAND T0600102076 MW-4

816M4

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	06/26/2002 06:46	Tracy A Cole	2
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/20/2002 07:27	Linda C Pape	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 06:54	Linda C Pape	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 07:27	Linda C Pape	1
01595	Oxygenates by 8260B	SW-846 8260B	1	06/19/2002 17:07	Roy R Mellott Jr	1
01595	Oxygenates by 8260B	SW-846 8260B	1	06/19/2002 18:00	Roy R Mellott Jr	10
01146	GC VOA Water Prep	SW-846 5030B	1	06/20/2002 06:54	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/19/2002 17:07	Roy R Mellott Jr	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	06/21/2002 09:00	William P Stafford	1

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected above the Reporting Limit





Lancaster Laboratories Sample No. WW 3837190

Collected: 06/15/2002 07:40 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45  
 Reported: 07/01/2002 at 12:43  
 Discard: 08/01/2002

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

MW-5-W-020615 Grab Water  
 Facility# 94800 Job# 386383 GRD  
 1700 CASTRO ST-OAKLAND T0600102076 MW-5

816M5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

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### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	06/25/2002 04:11	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/20/2002 05:49	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 05:49	Matthew E Barton	1

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Lancaster Laboratories Sample No. WW 3837190

Collected: 06/15/2002 07:40 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45  
Reported: 07/01/2002 at 12:43  
Discard: 08/01/2002

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

MW-5-W-020615 Grab Water  
Facility# 94800 Job# 386383 GRD  
1700 CASTRO ST-OAKLAND T0600102076 MW-5

816M5						
01146	GC VOA Water Prep	SW-846 5030B	1	06/20/2002 05:49	Matthew E Barton	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	06/21/2002 09:00	William P Stafford	1

#=Laboratory Method Detection Limit exceeded target detection limit  
N.D.=Not detected above the Reporting Limit



Lancaster Laboratories, Inc.  
2423 New Holland Pike  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





Lancaster Laboratories Sample No. WW 3837191

Collected: 06/15/2002 08:30 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45  
 Reported: 07/01/2002 at 12:43  
 Discard: 08/01/2002

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

MW-6-W-020615 Grab Water  
 Facility# 94800 Job# 386383 GRD  
 1700 CASTRO ST-OAKLAND T0600102076 MW-6

816M6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	4.3	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	06/25/2002 04:33	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/20/2002 06:22	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 06:22	Matthew E Barton	1

#=Laboratory Method Detection Limit Exceeded target detection limit  
 N.D.=Not detected above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3837191

Collected: 06/15/2002 08:30 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45

Reported: 07/01/2002 at 12:43

Discard: 08/01/2002

MW-6-W-020615 - Grab Water

Facility# 94800 Job# 386383

GRD

1700 CASTRO ST-OAKLAND T0600102076 MW-6

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

816M6

01146 GC VOA Water Prep

SW-846 5030B

1 06/20/2002 06:22

Matthew E Barton

n.a.

07003 Extraction - DRO (Waters)

TPH by CA LUFT

1 06/21/2002 09:00

William P Stafford

1

#=Laboratory Method Detection Limit Exceeded target detection limit  
N.D.=Not detected below the Reporting Limit



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Lancaster, PA 17605-2425  
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Lancaster Laboratories Sample No. **WW 3837192**

Collected: 06/15/2002 07:05 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45  
 Reported: 07/01/2002 at 12:43  
 Discard: 08/01/2002

ChevronTexaco  
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 San Ramon CA 94583

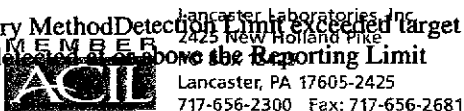
MW-7-W-020615 Grab Water GRD  
 Facility# 94800 Job# 386383  
 1700 CASTRO ST-OAKLAND T0600102076 MW-7

816M7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	850.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	960.	5.0	ug/l	10
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	18.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

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 N.D.=Not detected above the Reporting Limit





Lancaster Laboratories Sample No. WW 3837192

Collected: 06/15/2002 07:05 by GR

Account Number: 10905

Submitted: 06/18/2002 08:45

Reported: 07/01/2002 at 12:43

Discard: 08/01/2002

MW-7-W-020615 Grab Water

Facility# 94800 Job# 386383 GRD

1700 CASTRO ST-OAKLAND T0600102076 MW-7

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

816M7

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	06/25/2002 04:55	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/20/2002 14:19	Linda C Pape	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/20/2002 14:19	Linda C Pape	1
01595	Oxygenates by 8260B	SW-846 8260B	1	06/19/2002 17:34	Roy R Mellott Jr	1
01595	Oxygenates by 8260B	SW-846 8260B	1	06/19/2002 18:27	Roy R Mellott Jr	10
01146	GC VOA Water Prep	SW-846 5030B	1	06/20/2002 14:19	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/19/2002 17:34	Roy R Mellott Jr	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	06/21/2002 09:00	William P Stafford	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected above the Reporting Limit



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Lancaster, PA 17605-2425  
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## Quality Control Summary

Client Name: ChevronTexaco  
 Reported: 07/01/02 at 12:43 PM

Group Number: 811587

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 02170A02A      Sample number(s): 3837185-3837191								
Benzene	N.D.	0.5	ug/l	89	86	80-118	4	30
Toluene	N.D.	0.5	ug/l	87	85	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	89	85	81-119	5	30
Total Xylenes	N.D.	1.5	ug/l	90	86	82-120	5	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	95	94	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	87	85	76-126	3	30
Batch number: 02170A02B      Sample number(s): 3837192								
Benzene	N.D.	0.5	ug/l	89	86	80-118	4	30
Toluene	N.D.	0.5	ug/l	87	85	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	89	85	81-119	5	30
Total Xylenes	N.D.	1.5	ug/l	90	86	82-120	5	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	95	94	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	87	85	76-126	3	30
Batch number: 021710015A      Sample number(s): 3837186-3837192								
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	106	94	54-120	13	20
Batch number: U021701AB      Sample number(s): 3837189,3837192								
Methyl t-butyl ether	N.D.	2.	ug/l	106		77-127		
di-Isopropyl ether	N.D.	2.	ug/l	104		74-125		
Ethyl t-butyl ether	N.D.	2.	ug/l	99		74-120		
t-Amyl methyl ether	N.D.	2.	ug/l	95		71-114		
t-Butyl alcohol	N.D.	100.	ug/l	108		59-139		

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>Max</u>
Batch number: 02170A02A      Sample number(s): 3837185-3837191								
Benzene	103		77-131					
Toluene	102		80-128					
Ethylbenzene	100		76-132					
Total Xylenes	101		76-132					
Methyl tert-Butyl Ether	101		61-144					
TPH-GRO - Waters	82		74-132					
Batch number: 02170A02B      Sample number(s): 3837192								
Benzene	103		77-131					
Toluene	102		80-128					
Ethylbenzene	100		76-132					
Total Xylenes	101		76-132					
Methyl tert-Butyl Ether	101		61-144					
TPH-GRO - Waters	82		74-132					
Batch number: U021701AB      Sample number(s): 3837189,3837192								
Methyl t-butyl ether	106	108	69-134	2	30			
di-Isopropyl ether	109	108	68-133	1	30			
Ethyl t-butyl ether	105	102	73-123	3	30			
t-Amyl methyl ether	96	97	69-118	1	30			
t-Butyl alcohol	124	123	51-148	1	30			

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





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### Quality Control Summary

Client Name: ChevronTexaco  
Reported: 07/01/02 at 12:43 PM

Group Number: 811587

### Surrogate Quality Control

Analysis Name: TPH-GRO - Waters  
Batch number: 02170A02A

	Trifluorotoluene-F	Trifluorotoluene-P
3837185	84	94
3837186	86	94
3837187	85	84
3837188	83	88
3837189	87	89
3837190	82	94
3837191	84	95
Blank	83	94
LCS	92	92
LCSD	93	91
MS	105	92
<hr/>		
Limits:	67-135	71-130

Analysis Name: TPH-GRO - Waters  
Batch number: 02170A02B

	Trifluorotoluene-F	Trifluorotoluene-P
3837192	82	96
Blank	83	95
LCS	92	92
LCSD	93	91
MS	105	92
<hr/>		
Limits:	67-135	71-130

Analysis Name: TPH - DRO CA LUFT (Waters)  
Batch number: 021710015A  
Orthoterphenyl

3837186	93
3837187	87
3837188	92
3837189	100
3837190	94
3837191	98
3837192	95
Blank	129
LCS	123
LCSD	107
<hr/>	
Limits:	59-139

Analysis Name: Oxygenates by 8260B  
Batch number: U021701AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3837189	106	96	99	104
3837192	107	97	99	96
Blank	105	97	99	97
LCS	102	92	101	99
MS	105	99	99	106
MSD	103	98	104	103
<hr/>				
Limits:	86-118	80-120	88-110	86-115

\*. Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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## Quality Control Summary

Page 3 of 3

Client Name: ChevronTexaco  
Reported: 07/01/02 at 12:43 PM

Group Number: 811587

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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