

# C A M B R I A

February 4, 2004

Mr. Don Hwang  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Alameda County  
FEB 09 2004  
Environmental Health

**Re: Site Status Report**  
Chevron Site #9-4800,  
1700 Castro Street,  
Oakland, California



Dear Mr. Hwang:

This letter is submitted by Cambria Environmental Technology, Inc. (Cambria) on behalf of the Chevron Products Company, Inc. (Chevron) to document groundwater monitoring and sampling activities performed at the above site on December 31, 2003. The site work was performed by Gettler-Ryan Inc. (G-R) under subcontract with Cambria. A copy of the Fourth Quarter Monitoring and Sampling Report is attached.

Three of the seven wells are sampled quarterly. Due to consistent gasoline hydrocarbon and MTBE concentrations observed in wells MW-2 and MW-4, we propose that the sampling frequency be reduced to semi-annually. Since MTBE has been detected in down gradient MW-7, this well will remain on a quarterly monitoring and sampling schedule.

Cambria is in the process of assessing down gradient delineation of MTBE across Castro Street and will submit a work plan for this. In the interim, and unless otherwise notified by Alameda County Health Care Services, Cambria will implement the above changes to the groundwater sampling program beginning first quarter 2004. If you have any question please call Brett Lehman at (916)630-1855x106

Sincerely,  
**Cambria Environmental Technology, Inc.**

Brett Lehman  
Project Geologist

Bruce Eppler  
Senior Project Geologist

**Cambria  
Environmental  
Technology, Inc.**

4111 Citrus Avenue  
Suite 9  
Rocklin, CA 95677  
Tel (916) 630-1855  
Fax (916) 630-1856

cc: Ms. Karen Streich, Chevron Environmental Management Company, PO Box 6012 San Ramon, CA 94583-2324

Environmental Management  
Company  
6001 Bollinger Canyon Rd, L4050  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-1589  
Fax 925-842-8370

Karen Streich  
Project Manager

February 13, 200~~3~~<sup>4</sup>

**ChevronTexaco**

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Alameda County Health  
FEB 09 2004  
Environmental Health

Re: Chevron Service Station # 9-4800

Address: 1700 Castro Street, Oakland, California

January 29, 2004

I have reviewed the attached routine groundwater monitoring report dated \_\_\_\_\_.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,



Karen Streich  
Project Manager

Enclosure: Report



# GETTLER-RYAN INC.

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## TRANSMITTAL

January 29, 2004

G-R #386383

TO: Mr. Bruce H. Eppler  
Cambria Environmental Technology, Inc.  
4111 Citrus Avenue, Unit #9  
Rocklin, California 95677

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:

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COPIES	DATED	DESCRIPTION
1	January 27, 2004	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of December 31, 2003

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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 **February 13, 2004**, 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

Enclosures

trans/9-4800-ks



# GETTLER-RYAN INC.

January 27, 2004  
G-R Job #386383

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

**RE: Fourth Quarter Event of December 31, 2003**  
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.

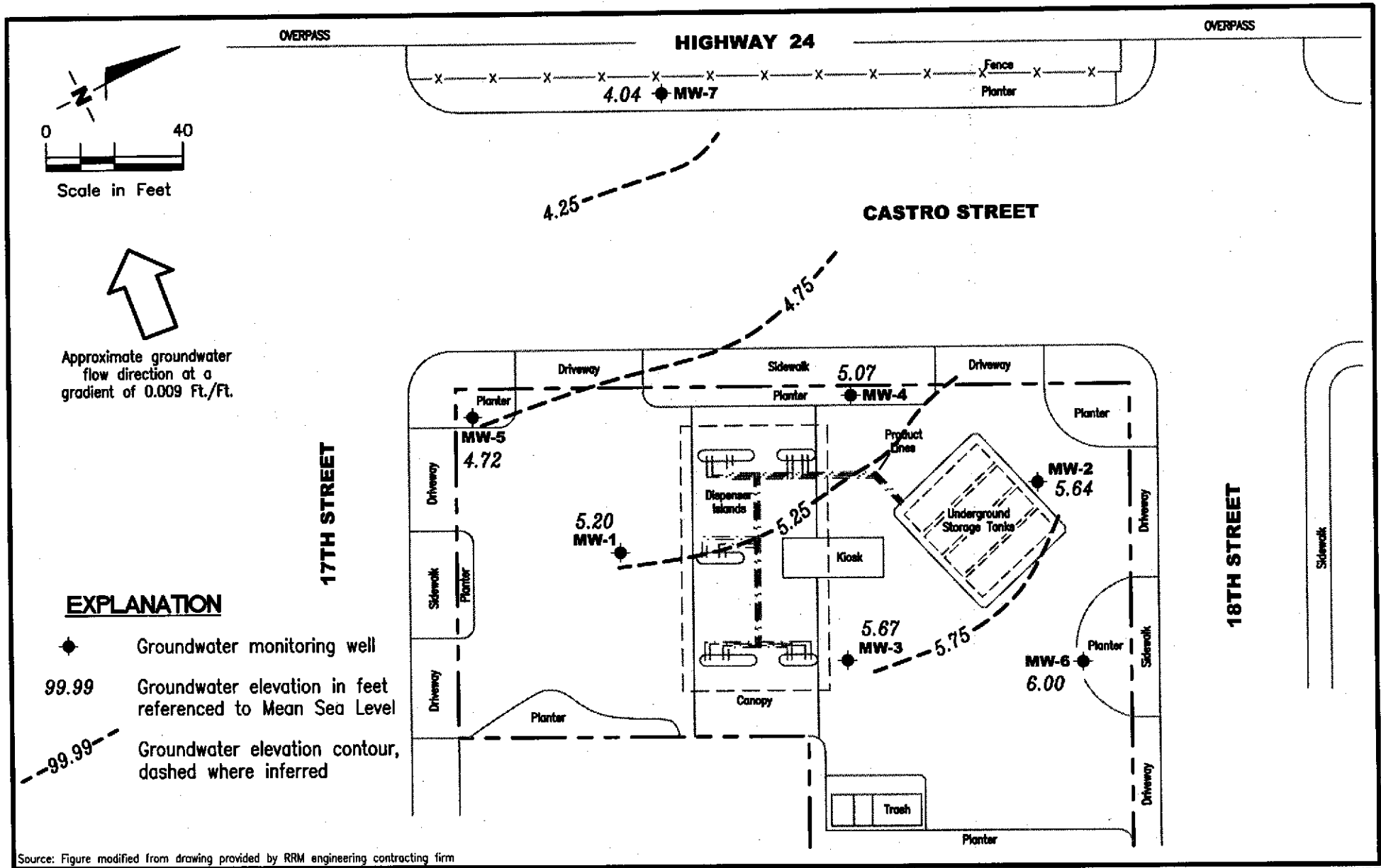
Sincerely,

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  
December 31, 2003

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
09/06/02	30.75	5.26	25.49	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	30.75	5.12	25.63	2,900	900	71	2.1	39	150	34
03/03/03	30.75	5.46	25.29	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 <sup>14</sup>	30.75	5.64	25.11	180	290	34	0.6	23	90	92
09/16/03	30.75	5.37	25.38	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/31/03 <sup>14</sup>	30.75	5.20	25.55	150	1,500	97	6	70	230	86
<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

**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-2 (cont)</b>										
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>
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
09/06/02	30.00	5.59	24.41	2,200	2,100	84	1.4	250	30	1,000
12/06/02	30.00	5.44	24.56	730	780	21	<0.50	58	3.4	480
03/03/03	30.00	5.79	24.21	3,500	4,800	220	1.9	650	46	4,400
06/17/03 <sup>14</sup>	30.00	6.07	23.93	4,100	4,700	140	4	370	84	2,700
09/16/03 <sup>14</sup>	30.00	5.69	24.31	1,800 <sup>15</sup>	1,300	38	<1	110	3	1,300
12/31/03 <sup>14</sup>	30.00	5.64	24.36	330	990	11	<0.5	23	3	440
<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

**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-3 (cont)</b>										
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
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	--	--	--	--	--	--	--
06/15/02	31.32	6.01	25.31	<50	550	110	3.0	23	58	590
09/06/02	31.32	5.74	25.58	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	31.32	5.56	25.76	160	350	60	1.3	11	32	530
03/03/03	31.32	5.92	25.40	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 <sup>14</sup>	31.32	6.19	25.13	130	560	90	2	19	57	590
09/16/03	31.32	5.85	25.47	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/31/03 <sup>14</sup>	31.32	5.67	25.65	120	840	140	24	25	87	670
<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



**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-4 (cont)</b>												
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		
06/15/02	30.13	5.29	24.84	2,400	950	16	3.6	41	100	2,200/2,400 <sup>12</sup>		
09/06/02	30.13	5.07	25.06	2,600	640	9.6	0.52	9.8	28	1,700		
12/06/02	30.13	4.93	25.20	1,400	280	3.6	<0.50	1.7	<1.5	730		
03/03/03	30.13	5.28	24.85	1,500	280	2.7	<0.50	7.3	2.3	910		
06/17/03 <sup>14</sup>	30.13	5.44	24.69	2,000	660	8	1	38	16	1,100		
09/16/03 <sup>14</sup>	30.13	5.15	24.98	2,100 <sup>16</sup>	480	6	<1	11	3	710		
12/31/03 <sup>14</sup>	30.13	5.07	25.06	1,400	220	3	<0.5	2	<0.5	390		
<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		
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		
09/06/02	30.93	4.75	26.18	SAMPLED SEMI-ANNUALLY						--	--	--
12/06/02	30.93	4.61	26.32	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5		
03/03/03	30.93	4.94	25.99	SAMPLED SEMI-ANNUALLY						--	--	--

**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>										
06/17/03 <sup>14</sup>	30.93	5.06	25.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/16/03	30.93	4.84	26.09	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/31/03 <sup>14</sup>	30.93	4.72	26.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<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
09/06/02	30.58	5.98	24.60	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	30.58	5.79	24.79	64	<50	<0.50	<0.50	<0.50	<1.5	5.0
03/03/03	30.58	6.14	24.44	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 <sup>14</sup>	30.58	6.47	24.11	<50	<50	<0.5	<0.5	<0.5	<0.5	13
09/16/03	30.58	6.06	24.52	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/31/03 <sup>14</sup>	30.58	6.00	24.58	<50	<50	<0.5	<0.5	<0.5	0.5	14
<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>

**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 (cont)</b>										
06/15/02	31.90	4.06	27.84	<50	<50	<0.50	<0.50	<0.50	<1.5	850/960 <sup>12</sup>
09/06/02	31.90	3.93	27.97	<50	59	<0.50	<0.50	<0.50	<1.5	1,900
12/06/02	31.90	3.87	28.03	<50	68	<0.50	<0.50	<0.50	<1.5	2,200
03/03/03	31.90	4.21	27.69	<50	<50	<0.50	<0.50	<0.50	<1.5	1,300
06/17/03 <sup>14</sup>	31.90	4.14	27.76	<50	79	<0.5	<0.5	<0.5	<0.5	2,500
09/16/03 <sup>14</sup>	31.90	4.07	27.83	<50 <sup>17</sup>	110	<5	<5	<5	<5	4,400
12/31/03 <sup>14</sup>	31.90	4.04	27.86	<50	76	<2	<2	<2	<2	3,000
<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
09/06/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/06/02	--	--	--	--	<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

WELL ID/ DATE	TOC* ( <i>l</i> )	GWE ( <i>msl</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> )
QA (cont)										
03/03/03 <sup>13</sup>	--	--	--	--	--	--	--	--	--	--
06/17/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/16/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/31/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**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/Trip Blank
(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).

<sup>1</sup> Chromatogram pattern indicates an unidentified hydrocarbon.

<sup>2</sup> Sample was extracted outside EPA recommended holding time.

<sup>3</sup> TPH-G, BTEX and MTBE was analyzed outside EPA recommended holding time.

<sup>4</sup> EPA Method 8240.

<sup>5</sup> Confirmation run.

<sup>6</sup> Laboratory report indicates gasoline C6-C12.

<sup>7</sup> Laboratory report indicates unidentified hydrocarbons C9-C24.

<sup>8</sup> Laboratory report indicates unidentified hydrocarbons >C16.

<sup>9</sup> Laboratory report indicates unidentified hydrocarbons C9-C40.

<sup>10</sup> Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.

<sup>11</sup> Well development performed.

<sup>12</sup> MTBE by EPA Method 8260.

<sup>13</sup> Due to laboratory error the trip blank sample was not analyzed.

<sup>14</sup> BTEX and MTBE by EPA Method 8260.

<sup>15</sup> Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the reextraction are within the limits. The hold time had expired prior to reextraction so all results are reported from the original extract. The TPH-D result from the reextraction is 910 ppb.

<sup>16</sup> Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the reextraction are within the limits. The hold time had expired prior to reextraction so all results are reported from the original extract. The TPH-D result from the reextraction is 1,700 ppb.

<sup>17</sup> Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the reextraction are within the limits. The hold time had expired prior to reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

**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-1</b>						
06/17/03	--	--	92	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY		--	--	--	--
12/31/03	<50	--	86	--	--	--
<b>MW-2</b>						
06/17/03	--	--	2,700	--	--	--
09/16/03	<130	--	1,300	--	--	--
12/31/03	<50	--	440	--	--	--
<b>MW-3</b>						
06/17/03	--	--	590	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY		--	--	--	--
12/31/03	66	--	670	--	--	--
<b>MW-4</b>						
04/08/99	<25,000	<5000	5400	<100	<100	<100
06/15/02	--	840	2,400	<2	<2	110
06/17/03	--	520	1,100	<0.5	<0.5	110
09/16/03	<100	--	710	--	--	--
12/31/03	<50	--	390	--	--	--
<b>MW-5</b>						
04/08/99	<500	<100	<2.0	<2.0	<2.0	<2.0
06/17/03	--	--	<0.5	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY		--	--	--	--
12/31/03	<50	--	<0.5	--	--	--

**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-6</b>						
04/08/99	<500	<100	5.6	<2.0	<2.0	<2.0
06/17/03	--	--	13	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY		--	--	--	--
12/31/03	<50	--	14	--	--	--
<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
06/17/03	--	37	2,500	<0.5	<0.5	53
09/16/03	<500	--	4,400	--	--	--
12/31/03	<200	--	3,000	--	--	--

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

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**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, 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, 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. 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 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.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383  
 Site Address: 1700 Castro Street Event Date: 12/31/03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW- 1 Date Monitored: 12/31/03 Well Condition: OK -  
 Well Diameter: 2 in.  
 Total Depth: 29.91 ft.  
 Depth to Water: 25.55 ft.  
7.36 xVF 0.17 = 0.74 x3 (case volume) = Estimated Purge Volume: 2.22 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): 1134 Weather Conditions: overcast  
 Sample Time/Date: 1145 12/31/03 Water Color: light Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1136</u>	<u>.75</u>	<u>7.36</u>	<u>846</u>	<u>18.1</u>		
<u>1137</u>	<u>1.5</u>	<u>7.20</u>	<u>895</u>	<u>19.3</u>		
<u>1139</u>	<u>2.25</u>	<u>7.09</u>	<u>971</u>	<u>17.9</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 1	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)
MW- 1	<u>5</u> x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Well Box fills up with water. See Pictures.

Add/Replaced Lock:  Add/Replaced Plug:  Size: 2"



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383  
 Site Address: 1700 Castro Street Event Date: 12/31/03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-2 Date Monitored: 12/31/03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 29.62 ft.  
 Depth to Water: 24.36 ft.  
 $5.26 \times VF \ 0.17 = 0.89 \times 3$  (case volume) = Estimated Purge Volume: 2.68 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:      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): 1308 Weather Conditions: overcast  
 Sample Time/Date: 1320 12/31/03 Water Color: cloudy Odor: YES  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1310</u>	<u>.75</u>	<u>7.51</u>	<u>299</u>	<u>17.0</u>	_____	_____
<u>1312</u>	<u>1.5</u>	<u>7.19</u>	<u>304</u>	<u>18.2</u>	_____	_____
<u>1314</u>	<u>2.75</u>	<u>7.19</u>	<u>342</u>	<u>18.3</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)
<u>MW-2</u>	<u>2</u> x amber	YES	NP	LANCASTER	TPH-D
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383  
 Site Address: 1700 Castro Street Event Date: 12/31/13 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-3 Date Monitored: 12/31/13 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 29.38 ft.  
 Depth to Water: 25.65 ft.  
3.73 xVF 0.17 = 0.63 x3 (case volume) = Estimated Purge Volume: 1.90 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): 1200 Weather Conditions: overcast  
 Sample Time/Date: 1210 12/31/13 Water Color: Clear Odor: Yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1201</u>	<u>.50</u>	<u>7.76</u>	<u>1030</u>	<u>16.4</u>	_____	_____
<u>1202</u>	<u>1.0</u>	<u>7.45</u>	<u>1142</u>	<u>16.2</u>	_____	_____
<u>1204</u>	<u>2.0</u>	<u>7.09</u>	<u>982</u>	<u>16.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)</u>
<u>MW-3</u>	<u>2</u> x amber	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

Add/Replaced Lock:

Add/Replaced Plug:  Size: 2"



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383  
 Site Address: 1700 Castro Street Event Date: 12/21/03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-4 Date Monitored: 12/21/03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 28.26 ft.

Depth to Water: 25.06 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

3.20 xVF 0.17 = 0.54 x3 (case volume) = Estimated Purge Volume: 1.63 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): 1247 Weather Conditions: overcast  
 Sample Time/Date: 1255 12/21/03 Water Color: Cloudy (light grey) Odor: YS  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1248</u>	<u>1.50</u>	<u>7.89</u>	<u>861</u>	<u>15.8</u>	_____	_____
<u>1249</u>	<u>1.0</u>	<u>7.60</u>	<u>876</u>	<u>15.3</u>	_____	_____
<u>1251</u>	<u>1.75</u>	<u>7.40</u>	<u>793</u>	<u>18.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x vva vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)
<u>MW-4</u>	<u>2</u> x amber	YES	NP	LANCASTER	TPH-D
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### COMMENTS:

Add/Replaced Lock:

Add/Replaced Plug:  Size: 2"



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383  
 Site Address: 1700 Castro Street Event Date: 12/31/03 (inclusive)  
 City: Oakland, CA Sampler: K. Kulla

Well ID: MW-5 Date Monitored: 12/31/03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 27.96 ft.  
 Depth to Water: 26.21 ft.  
1.75 xVF 0.17 = 0.29 x3 (case volume) = Estimated Purge Volume: 0.89 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): 1056 Weather Conditions: overcast  
 Sample Time/Date: 1105 12/31/03 Water Color: Clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1056</u>	<u>.25</u>	<u>7.11</u>	<u>1201</u>	<u>18.2</u>		
<u>1057</u>	<u>.50</u>	<u>7.11</u>	<u>1147</u>	<u>18.5</u>		
<u>1058</u>	<u>.75</u>	<u>7.10</u>	<u>1179</u>	<u>17.9</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)
MW-5	2 x amber	YES	NP	LANCASTER	TPH-D

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383  
 Site Address: 1700 Castro Street Event Date: 12/31/03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-6 Date Monitored: 12/31/03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 28.08 ft.  
 Depth to Water: 24.58 ft.  
3.50 xVF 0.17 = 0.59 x3 (case volume) = Estimated Purge Volume: 1.78 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): 1119 Weather Conditions: overcast  
 Sample Time/Date: 1125/12/31/03 Water Color: Light Cloudy Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (O/F)	D.O. (mg/L)	ORP (mV)
<u>1119</u>	<u>.50</u>	<u>7.80</u>	<u>610</u>	<u>14.9</u>		
<u>1120</u>	<u>1.0</u>	<u>7.06</u>	<u>655</u>	<u>17.0</u>		
<u>1621</u>	<u>1.75</u>	<u>7.06</u>	<u>664</u>	<u>18.9</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)</u>
<u>MW-6</u>	<u>2</u> x amber	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D</u>

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

Add/Replaced Lock:

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800  
 Site Address: 1700 Castro Street  
 City: Oakland, CA

Job Number: 386383  
 Event Date: 12/31/13 (inclusive)  
 Sampler: R. KUYA

Well ID: MW-7  
 Well Diameter: 2 in.  
 Total Depth: 29.95 ft.  
 Depth to Water: 24.86 ft.  
2.09

Date Monitored: 12/31/13 Well Condition: OK

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

xVF 0.17 = 0.35 x3 (case volume) = Estimated Purge Volume: 1.06 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): 1329 Weather Conditions: overcast  
 Sample Time/Date: 1345 12/31/13 Water Color: clear Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1329</u>	<u>.25</u>	<u>5.79</u>	<u>980</u>	<u>17.3</u>		
<u>1330</u>	<u>.50</u>	<u>6.53</u>	<u>1089</u>	<u>17.3</u>		
<u>1332</u>	<u>1.0</u>	<u>6.73</u>	<u>1056</u>	<u>16.0</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6</u> x vva vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)
<u>MW-7</u>	<u>2</u> x amber	YES	NP	LANCASTER	TPH-D

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

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

010504-006

Account # 10904

Sample #: 4194410-17

SCR#:

870292

Cambria MTI Project # 61D-1966

Facility #: SS#9-4800 G-R#386388 Global ID# T0600102076  
 Site Address: 1700 CASTRO STREET, OAKLAND, CA  
 Chevron PM: Mgmt. Transfer Initiative Lead Consultant: CAMBRIA  
 Consultant/Office: G-R, Inc. 6747 Sierra Court, Suite J, Dublin, Ca. 94568  
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7800  
 Sampler: Kristina Kelly  
 Service Order #:  Non SAR:

Matrix	Preservation Codes									
	H	H							H	
Soil										
Water										
Potable										
INPDES										
Other										
Total Number of Containers										
BTEX + MTBE 8260	<input checked="" type="checkbox"/>									
TPH 8015-MOD. GR0										
TPH 8015-MOD DRO										
8260 I.M. Scan										
Oxygenates										
Lead 7420										
Ethanol (8210)										

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>    O = Other

- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
  - Confirm highest hit by 8260
  - Confirm all hits by 8260
  - Run \_\_\_ oxy's on highest hit
  - Run \_\_\_ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Potable	INPDES	Other	Total Number of Containers	BTEX + MTBE 8260	TPH 8015-MOD. GR0	TPH 8015-MOD DRO	8260 I.M. Scan	Oxygenates	Lead 7420	Ethanol (8210)
QA	12-31-03																
MW-1		1145	X							2	X	X					X
MW-2		1220	X							2	X	X	X				X
MW-3		1210	X							2	X	X	X				X
MW-4		1255	X							2	X	X	X				X
MW-5		1105	X							2	X	X	X				X
MW-6		1125	X							2	X	X	X				X
MW-7		1345	X							2	X	X	X				X

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**  
 24 hour      48 hour      72 hour  
 4 day      5 day

**Data Package Options (please circle if required)**  
 QC Summary      Type I — Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <u>Kristina Kelly</u>	Date: <u>12/31/03</u>	Time: <u>1430</u>	Received by: <u>Deanna L. Harding</u>	Date: <u>1/5/04</u>	Time: <u>1335</u>
Relinquished by: <u>Deanna L. Harding</u>	Date: <u>1/5/04</u>	Time: <u>1315</u>	Received by: <u>Andres Amaya</u>	Date: <u>1/5/04</u>	Time: <u>1315</u>
Relinquished by: <u>Andres Amaya</u>	Date: <u>1/5/04</u>	Time: <u>1400</u>	Received by: <u>Airborne</u>	Date: <u>1/5/04</u>	Time: <u></u>
Relinquished by Commercial Carrier: UPS      FedEx      Other: <u>Airborne</u>	Temperature Upon Receipt: <u>13.5</u> °C		Received by: <u>Deanna L. Harding</u>	Date: <u>1/5/04</u>	Time: <u>1167</u>
Custody Seals Intact?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco c/o Cambria Env.  
4111 Citrus Avenue  
Suite 9  
Rocklin CA 95677  
916-630-1855

Prepared by:

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

MICHELE HUNTER

JAN 14 2004

GETTLER RYAN INC.  
2425 NEW HOLLAND PIKE  
LANCASTER, PA 17605-2425

### SAMPLE GROUP

The sample group for this submittal is 880292. Samples arrived at the laboratory on Tuesday, January 06, 2004. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
QA-T-031231	NA	Water	4194410
MW-1-W-031231	Grab	Water	4194411
MW-2-W-031231	Grab	Water	4194412
MW-3-W-031231	Grab	Water	4194413
MW-4-W-031231	Grab	Water	4194414
MW-5-W-031231	Grab	Water	4194415
MW-6-W-031231	Grab	Water	4194416
MW-7-W-031231	Grab	Water	4194417

1 COPY TO  
ELECTRONIC  
COPY TO

Cambria C/O Gettler- Ryan  
Gettler-Ryan

Attn: Deanna L. Harding  
Attn: Cheryl Hansen

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

Respectfully Submitted,



Victoria M. Marcell  
Chemist

Lancaster Laboratories Sample No. **WW 4194410**

 QA-T-031231                      NA                      Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966                      GRD  
 1700 Castro St Oaklankd T0600102076 QA  
 Collected: 12/31/2003 00:00 by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:00  
 Discard: 02/12/2004

 ChevronTexaco c/o Cambria Env.  
 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

**TBOAK**

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.						
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

**Laboratory Chronicle**

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/07/2004 08:19	Todd T Smythe	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	01/07/2004 10:07	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004 08:19	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004 10:07	Elizabeth M Taylor	n.a.

Lancaster Laboratories Sample No. **WW 4194411**

 MW-1-W-031231                      Grab                      Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966                      GRD  
 1700 Castro St Oaklankd                      T0600102076                      MW-1  
 Collected: 12/31/2003 11:45                      by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:00  
 Discard: 02/12/2004

 ChevronTexaco c/o Cambria Env.  
 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

1-OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	1,500.	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.					
05553	TPH - DRO CA LUFT (Waters)	n.a.	150.	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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	86.	0.5	ug/l	1
05401	Benzene	71-43-2	97.	0.5	ug/l	1
05407	Toluene	108-88-3	6.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	70.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	230.	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/07/2004 02:56	Todd T Smythe	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	01/08/2004 18:09	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 04:05	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004 02:56	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004 04:05	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	01/06/2004 23:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. WW 4194412

 MW-2-W-031231 Grab Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966 GRD  
 1700 Castro St Oaklankd T0600102076 MW-2  
 Collected: 12/31/2003 13:20 by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:00  
 Discard: 02/12/2004

 ChevronTexaco c/o Cambria Env.  
 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

2-OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	990.	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.					
05553	TPH - DRO CA LUFT (Waters)	n.a.	330.	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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	440.	3.	ug/l	5
05401	Benzene	71-43-2	11.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	23.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	3.	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	01/07/2004 10:31	Todd T Smythe	1
05553	TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B, Modified	1	01/08/2004 16:23	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 05:09	Elizabeth M Taylor	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 05:30	Elizabeth M Taylor	5
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004 10:31	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004 05:09	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	01/06/2004 23:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. WW 4194413

 MW-3-W-031231 Grab Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966 GRD  
 1700 Castro St Oakland T0600102076 MW-3  
 Collected: 12/31/2003 12:10 by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:00  
 Discard: 02/12/2004

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 4111 Citrus Avenue  
 Suite 9  
 Rocklin CA 95677

3-OAK

CAT No.	Analysis Name	CAS Number	As Received		Units	Dilution Factor
			As Received Result	Method Detection Limit		
01728	TPH-GRO - Waters	n.a.	840.	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.					
05553	TPH - DRO CA LUFT (Waters)	n.a.	120.	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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	66.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	670.	5.	ug/l	10
05401	Benzene	71-43-2	140.	0.5	ug/l	1
05407	Toluene	108-88-3	24.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	25.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	87.	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	01/07/2004 11:04	Todd T Smythe	1
05553	TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B, Modified	1	01/08/2004 16:44	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 05:52	Elizabeth M Taylor	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 06:13	Elizabeth M Taylor	10
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004 11:04	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004 05:52	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	01/06/2004 23:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. **WW 4194414**

 MW-4-W-031231                      Grab                      Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966                      GRD  
 1700 Castro St Oaklankd T0600102076 MW-4  
 Collected: 12/31/2003 12:55                      by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:00  
 Discard: 02/12/2004

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**4-OAK**

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	220.	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.						
05553	TPH - DRO CA LUFT (Waters)	n.a.	1,400.	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.						
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	390.	3.	ug/l	5
05401	Benzene	71-43-2	3.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	01/07/2004 11:37	Todd T Smythe	1
05553	TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B, Modified SW-846 8260B	1	01/08/2004 18:30	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 06:34	Elizabeth M Taylor	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 06:56	Elizabeth M Taylor	5
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004 11:37	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004 06:34	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	01/06/2004 23:00	Felix C Arroyo	1



Lancaster Laboratories Sample No. **WW 4194415**

 MW-5-W-031231                      Grab              Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966              GRD  
 1700 Castro St Oaklankd T0600102076 MW-5  
 Collected: 12/31/2003 11:05              by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:00  
 Discard: 02/12/2004

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5-OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.					
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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	01/07/2004 12:09	Todd T Smythe	1
05553	TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B, Modified	1	01/08/2004 17:06	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 07:17	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004 12:09	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004 07:17	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	01/06/2004 23:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. **WW 4194416**

 MW-6-W-031231                      Grab              Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966              GRD  
 1700 Castro St Oaklankd T0600102076 MW-6  
 Collected: 12/31/2003 11:25              by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:01  
 Discard: 02/12/2004

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 Suite 9  
 Rocklin CA 95677

6-OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.					
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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	14.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.5	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	01/07/2004 12:42	Todd T Smythe	1
05553	TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B, Modified	1	01/08/2004 17:27	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004 07:39	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004 12:42	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004 07:39	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	01/06/2004 23:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. **WW 4194417**

 MW-7-W-031231                      Grab                      Water  
 Facility# 94800 Job# 386383 MTI# 61D-1966                      GRD  
 1700 Castro St Oaklankd T0600102076 MW-7  
 Collected: 12/31/2003 13:45                      by KK

Account Number: 10904

 Submitted: 01/06/2004 09:50  
 Reported: 01/12/2004 at 13:01  
 Discard: 02/12/2004

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**7-OAK**

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	76.	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.					
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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	200.	ug/l	4
02010	Methyl Tertiary Butyl Ether	1634-04-4	3,000.	20.	ug/l	40
05401	Benzene	71-43-2	N.D.	2.	ug/l	4
05407	Toluene	108-88-3	N.D.	2.	ug/l	4
05415	Ethylbenzene	100-41-4	N.D.	2.	ug/l	4
06310	Xylene (Total)	1330-20-7	N.D.	2.	ug/l	4
	Due to the level of methyl t-butyl ether, the reporting limit(s) for all GC/MS volatile compounds were raised.					

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/07/2004	13:15	Todd T Smythe	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	01/08/2004	17:48	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004	08:00	Elizabeth M Taylor	4
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	01/07/2004	08:21	Elizabeth M Taylor	40
01146	GC VOA Water Prep	SW-846 5030B	1	01/07/2004	13:15	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/07/2004	08:00	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	01/06/2004	23:00	Felix C Arroyo	1

## Quality Control Summary

 Client Name: ChevronTexaco c/o Cambria Env.  
 Reported: 01/12/04 at 01:01 PM

Group Number: 880292

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 040060025A TPH - DRO CA LUFT (Waters)	N.D.	25.	ug/l	68	73	61-126	7	20
Batch number: 04007A07A TPH-GRO - Waters	N.D.	50.	ug/l	101		70-130		
Batch number: 04007A07B TPH-GRO - Waters	N.D.	50.	ug/l	101		70-130		
Batch number: P040061AA Ethanol	N.D.	50.	ug/l	107		46-145		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		77-127		
Benzene	N.D.	0.5	ug/l	94		85-117		
Toluene	N.D.	0.5	ug/l	88		85-115		
Ethylbenzene	N.D.	0.5	ug/l	88		82-119		
Xylene (Total)	N.D.	0.5	ug/l	88		84-120		

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG MAX	Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04007A07A TPH-GRO - Waters	100	100	63-154	0	30				
Batch number: 04007A07B TPH-GRO - Waters	100	100	63-154	0	30				
Batch number: P040061AA Ethanol	103	105	38-149	1	30				
Methyl Tertiary Butyl Ether	96	96	69-134	0	30				
Benzene	103	103	83-128	0	30				
Toluene	93	96	83-127	3	30				
Ethylbenzene	95	96	82-129	1	30				
Xylene (Total)	94	95	82-130	2	30				

### Surrogate Quality Control

 Analysis Name: TPH - DRO CA LUFT (Waters)  
 Batch number: 040060025A  
 Orthoterphenyl

4194411	82
4194412	79
4194413	85
4194414	80
4194415	82
4194416	78
4194417	75

\*- 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.

## Quality Control Summary

 Client Name: ChevronTexaco c/o Cambria Env.  
 Reported: 01/12/04 at 01:01 PM

Group Number: 880292

### Surrogate Quality Control

 Blank 72  
 LCS 89  
 LCSD 93

Limits: 59-139

 Analysis Name: TPH-GRO - Waters  
 Batch number: 04007A07A  
 Trifluorotoluene-F

 4194411 102  
 Blank 81  
 LCS 103  
 MS 106  
 MSD 106

Limits: 57-146

 Analysis Name: TPH-GRO - Waters  
 Batch number: 04007A07B  
 Trifluorotoluene-F

 4194410 79  
 4194412 104  
 4194413 82  
 4194414 91  
 4194415 81  
 4194416 81  
 4194417 85  
 Blank 80  
 LCS 103  
 MS 106  
 MSD 106

Limits: 57-146

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: P040061AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4194410	100	95	101	98
4194411	99	98	101	97
4194412	99	95	102	98
4194413	100	98	102	97
4194414	99	98	100	98
4194415	99	96	101	96
4194416	101	97	100	96
4194417	100	96	100	95
Blank	99	97	100	96
LCS	100	96	101	97
MS	100	98	100	97
MSD	99	97	101	98

Limits: 81-120                      82-112                      85-112                      83-113

\*- 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.

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value - The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
<b>A</b> TIC is a possible aldol-condensation product	<b>B</b> Value is <CRDL, but ≥IDL
<b>B</b> Analyte was also detected in the blank	<b>E</b> Estimated due to interference
<b>C</b> Pesticide result confirmed by GC/MS	<b>M</b> Duplicate injection precision not met
<b>D</b> Compound quantitated on a diluted sample	<b>N</b> Spike sample not within control limits
<b>E</b> Concentration exceeds the calibration range of the instrument	<b>S</b> Method of standard additions (MSA) used for calculation
<b>N</b> Presumptive evidence of a compound (TICs only)	<b>U</b> Compound was not detected
<b>P</b> Concentration difference between primary and confirmation columns >25%	<b>W</b> Post digestion spike out of control limits
<b>U</b> Compound was not detected	<b>*</b> Duplicate analysis not within control limits
<b>X,Y,Z</b> Defined in case narrative	<b>+</b> Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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