

Environmental Management  
Company  
6001 Bollinger Canyon Rd, K2256  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-1589  
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Karen Streich  
Project Manager

256 ✓

**ChevronTexaco**

November 2, 2004

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

Re: Chevron Service Station # 9-1740

Address: 6550 Moraga Avenue, Oakland, California

I have reviewed the attached routine groundwater monitoring report dated October 14, 2004.

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.

## TRANSMITTAL

October 14, 2004

G-R #386507

TO: Mr. Bruce H. Eppler  
Cambria Environmental Technology, Inc.  
4111 Citrus Avenue, Suite 12  
Rocklin, California 95677

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

RE: **Chevron Service Station**  
**#9-1740**  
**5550 Moraga Avenue**  
**Oakland, California**  
**MTI: 61D-1978**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	October 14, 2004	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of September 13, 2004

### COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following:**

Ms. Karen Streich, ChevronTexaco Company, P.O. Box 6012, Room K2256, San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **November 1, 2004**, at which time the final report will be distributed to the following:

cc: Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577  
Mr. Eddie So, RWQCB-San Francisco Bay Region, 1515 Clay St., Suite 1400, Oakland, CA 94612

Enclosures

trans/9-1740-ks



# GETTLER-RYAN INC.

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October 14, 2004  
G-R Job #386507

Ms. Karen Streich  
ChevronTexaco Company  
P.O. Box 6012, Room K2256  
San Ramon, CA 94583

**RE: Second Semi-Annual Event of September 13, 2004**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
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).

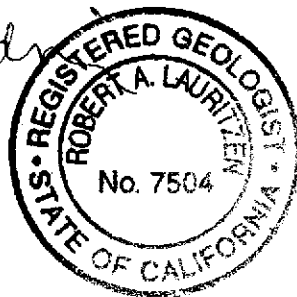
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. Dissolved Oxygen Concentrations are presented in Table 2. 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.

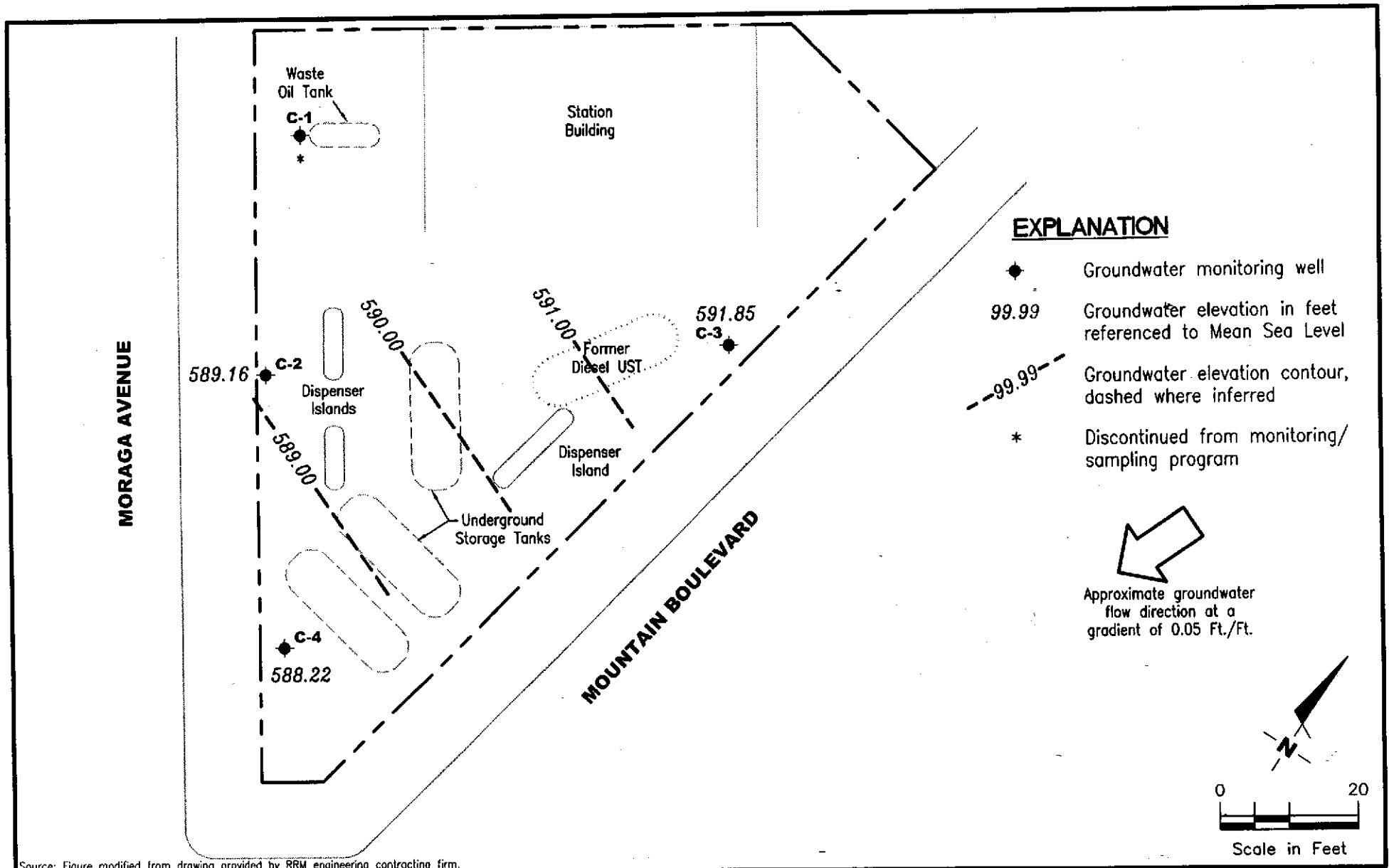
Sincerely,

Deanna L. Harding  
Project Coordinator



Robert A. Lauritzen  
Senior Geologist, R.G. No. 7504

Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Dissolved Oxygen Concentrations  
Table 3: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



**GETTLER - RYAN INC.**

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

**POTENTIOMETRIC MAP**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

FIGURE

1

PROJECT NUMBER  
386507

REVIEWED BY

DATE  
September 13, 2004

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-1</b>											
03/25/91	595.82	592.54	3.28	--	--	54	0.7	<0.5	<0.5	2.0	--
07/01/91	595.82	592.39	3.43	--	--	730	250	3.0	16	4.8	--
09/25/91	595.82	591.67	4.15	--	--	160	68	1.3	6.1	1.3	--
12/23/91	595.82	592.11	3.71	--	--	170	70	1.6	3.5	2.4	--
03/24/92	595.82	592.80	3.02	--	--	60	39	4.4	3.9	9.1	--
06/23/92	595.82	592.06	3.76	--	--	60	19	1.1	1.1	1.0	--
NOT MONITORED/SAMPLED											
<b>C-2</b>											
03/25/91	594.57	571.68	22.89	--	--	<50	1.0	<0.5	<0.5	2.0	--
07/01/91	594.57	587.20	7.37	--	--	660	190	2.5	28	22	--
09/25/91	594.57	587.59	6.98	--	--	110	200	1.9	21	1.7	--
12/23/91	594.57	589.56	5.01	--	--	<50	1.2	1.2	<0.5	1.8	--
03/24/92	594.57	577.30	17.27	--	--	100	5.9	7.9	4.0	14	--
06/23/92	594.57	590.75	3.82	--	--	190	45	4.5	9.5	10	--
09/30/92	594.57	580.56	14.01	--	--	240	99	2.3	11	6.1	--
12/16/92	594.57	580.05	14.52	--	--	280	160	6.2	7.4	5.0	--
03/30/93	594.57	583.49	11.08	--	--	110	21	<0.5	0.8	<1.5	--
06/10/93	594.57	583.08	11.49	--	--	180	53	2.6	8.0	5.8	--
09/02/93	594.57	580.49	14.08	--	--	51	18	0.8	4.4	<1.5	--
12/06/93	594.57	579.87	14.70	--	--	<50	20	1.3	2.7	<0.5	--
03/02/94	594.57	579.70	14.87	--	--	<50	9.9	1.6	<0.5	0.8	--
06/03/94	594.57	579.35	15.22	--	--	440	300	2.7	61	2.1	--
09/07/94	594.57	587.27	7.30	--	--	80	30	<0.5	1.6	<0.5	--
12/06/94	594.57	589.29	5.28	--	--	120	51	<0.5	4.7	<0.5	--
03/31/95	594.57	589.13	5.44	--	--	770	250	<5.0	74	<5.0	--
06/15/95	594.57	589.62	4.95	--	--	240	76	<1.0	26	<1.0	--
09/25/95	594.57	587.78	6.79	--	--	<50	1.2	<0.5	<0.5	<0.5	--
12/19/95	594.57	588.94	5.63	--	--	<250	23	<2.5	<2.5	<2.5	860
03/31/97	594.57	589.74	4.83	--	--	<500	48	<5.0	<5.0	<5.0	2,900
06/23/97	594.57	589.98	4.59	--	--	1200	240	<10	<10	<10	4,900
09/02/97	594.57	590.02	4.55	--	--	1400	340	<5.0	54	6.9	2,500

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID/ DATE	TOC* ( <i>ft.</i> )	GWE ( <i>msl</i> )	DTW ( <i>ft.</i> )	SPHT ( <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>C-2 (cont)</b>											
12/15/97	594.57	590.26	4.31	--	--	540	100	<2.5	8.7	<2.5	2,400
03/10/98	594.57	590.00	4.57	--	--	<500	<5.0	<5.0	<5.0	<5.0	3,000
06/16/98	594.57	589.99	4.58	--	--	120	6.6	<1.0	<1.0	<1.0	2,500
08/25/98	594.57	589.67	4.90	--	--	140	<0.5	<0.5	<0.5	<0.5	2,600
12/29/98	594.57	589.77	4.80	--	--	1830	17.7	<10.0	≤10.0	14.9	4,600/4,890 <sup>1</sup>
03/09/99	594.57	590.21	4.36	--	--	120	16	<1.0	<1.0	<1.0	3,400
06/23/99 <sup>2</sup>	594.57	589.92	4.65	--	--	--	--	--	--	--	--
09/28/99	594.57	585.99	8.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	1,250
02/29/00	594.57	586.59	7.98	--	--	122	<0.5	<0.5	<0.5	<0.5	249
08/29/00	594.57	587.52	7.05	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	390
03/27/01	594.57	587.73	6.84	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	9.72
09/05/01 <sup>4</sup>	594.57	587.37	7.20	0.00	58 <sup>5</sup>	360	<0.50	<0.50	<0.50	<1.5	1,300/1,000 <sup>1</sup>
03/04/02 <sup>4</sup>	594.57	587.59	6.98	0.00	270 <sup>6</sup>	190	<0.50	<0.50	<0.50	<1.5	440
09/03/02 <sup>4</sup>	594.57	587.29	7.28	0.00	760 <sup>6</sup>	120	<0.50	<0.50	<0.50	<1.5	290
03/29/03 <sup>4</sup>	594.57	588.06	6.51	0.00	<50 <sup>6</sup>	53	<0.5	<0.5	<0.5	<1.5	73
09/23/03 <sup>4,7</sup>	594.57	587.71	6.86	0.00	64 <sup>6</sup>	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04 <sup>7,8</sup>	594.57	587.35	7.22	0.00	<50 <sup>6</sup>	82	<0.5	<0.5	<0.5	<0.5	370
09/13/04 <sup>7</sup>	594.57	589.16	5.41	0.00	<50 <sup>6</sup>	67	<0.5	<0.5	<0.5	<0.5	530
<b>C-3</b>											
03/25/91	597.14	591.98	5.16	--	--	<50	<0.5	<0.5	<0.5	0.5	--
07/01/91	597.14	591.30	5.84	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	597.14	591.20	5.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	597.14	591.20	5.94	--	--	<50	1.0	<0.5	<0.5	1.5	--
03/24/92	597.14	592.37	4.77	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	597.14	591.47	5.67	--	--	<50	0.9	1.1	0.5	1.6	--
09/30/92	597.14	590.84	6.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	597.14	591.57	5.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	597.14	592.08	5.06	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	597.14	591.85	5.29	--	--	<50	0.6	1.9	0.6	3.5	--
09/02/93	597.14	591.22	5.92	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	597.14	591.38	5.76	--	--	<50	<0.5	0.6	<0.5	<0.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-3 (cont)											
03/02/94	597.14	591.97	5.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	597.14	591.74	5.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	597.14	591.14	6.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	597.14	591.95	5.19	--	--	<50	<0.5	0.8	<0.5	<0.5	--
03/31/95	597.14	592.04	5.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	597.14	591.78	5.36	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	597.14	591.04	6.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	597.14	591.46	5.68	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	597.14	590.65	6.49	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	597.14	590.63	6.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	597.14	591.07	6.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	597.14	590.86	6.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	597.14	590.89	6.25	--	--	<50	<0.5	<0.5	<0.5	<0.5	4
06/16/98	597.14	590.80	6.34	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	597.14	590.61	6.53	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	597.14	590.59	6.55	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	597.14	591.20	5.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	3
09/28/99	597.14	590.26	6.88	--	SAMPLED ANNUALLY	--	--	--	--	--	--
02/29/00	597.14	591.56	5.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	10
08/29/00	597.14	590.53	6.61	0.00	--	--	--	--	--	--	--
03/27/01	597.14	591.00	6.14	0.00	--	264	<2.50	<2.50	<2.50	<2.50	870
09/05/01	597.14	590.46	6.68	0.00	--	--	--	--	--	--	<2 <sup>1</sup>
03/04/02	597.14	590.93	6.21	0.00	<50 <sup>6</sup>	<50	<0.50	<0.50	<0.50	<1.5	<5.0
09/03/02	597.14	590.40	6.74	0.00	SAMPLED ANNUALLY	--	--	--	--	--	--
03/29/03	597.14	590.86	6.28	0.00	<50 <sup>6</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5
09/23/03	597.14	590.51	6.63	0.00	SAMPLED ANNUALLY	--	--	--	--	--	--
03/19/04 <sup>7</sup>	597.14	591.24	5.90	0.00	<50 <sup>6</sup>	<50	<0.5	<0.5	<0.5	<0.5	2
09/13/04	597.14	591.85	5.29	0.00	SAMPLED ANNUALLY	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-4</b>											
03/25/91	593.10	588.65	4.45	--	--	2700	240	16	<0.5	350	--
07/01/91	593.10	587.77	5.33	--	--	7900	1500	230	340	350	--
09/25/91	593.10	587.60	5.50	--	--	3200	850	160	150	220	--
12/23/91	593.10	588.18	4.92	--	--	4100	390	52	42	340	--
03/24/92	593.10	589.06**	4.19	0.19	--	--	--	--	--	--	--
06/23/92	593.10	588.34**	4.91	0.30	--	--	--	--	--	--	--
09/30/92	593.10	584.44	8.66	--	--	450	97	14	12	29	--
12/16/92	593.10	583.30	9.80	--	--	590	130	18	5.6	29	--
03/30/93	593.10	583.25**	10.00	0.12	--	--	--	--	--	--	--
06/10/93	593.10	583.46	9.64	--	--	1300	290	36	17	73	--
09/02/93	593.10	583.02	10.08	--	--	630	97	12	6.6	21	--
12/06/93	593.10	582.85	10.25	--	--	1900	600	68	27	130	--
03/02/94	593.10	584.36	8.74	--	--	2600	1200	110	43	180	--
06/03/94	593.10	583.27	9.83	--	--	780	180	13	8.5	26	--
09/07/94	593.10	582.80	10.30	--	--	<50	14	<0.5	0.7	<0.5	--
12/06/94	593.10	583.90	9.20	--	--	980	270	21	12	38	--
03/31/95	593.10	582.86	10.24	--	--	1500	450	25	11	49	--
06/15/95	593.10	582.78	10.32	--	--	960	250	15	4.5	37	--
09/25/95	593.10	584.72	8.38	--	--	<500	18	<5.0	<5.0	<5.0	--
12/19/95	593.10	582.94	10.16	--	--	<500	32	<5.0	<5.0	<5.0	2,400
03/31/97	593.10	588.42	4.68	--	--	3400	960	51	64	140	2,100
06/23/97	593.10	588.36	4.74	--	--	1600	580	19	8.2	27	2,300
09/02/97	593.10	588.33	4.77	--	--	6900	1400	59	130	410	3,100
12/15/97	593.10	588.60	4.50	--	--	3300	1200	37	74	130	3,700
03/10/98	593.10	588.92	4.18	--	--	1100	250	19	13	62	4,000
06/16/98	593.10	586.53	6.57	--	--	1200	350	<10	12	39	4,500
08/25/98	593.10	586.30	6.80	--	--	290	24	0.72	0.87	1.9	3,600
12/29/98	593.10	586.80	6.30	--	--	3190	957	<25	<25	<25	8,100/8,500 <sup>1</sup>
03/09/99	593.10	585.87	7.23	--	--	2200	850	15	35	56	5,900
06/23/99 <sup>2</sup>	593.10	585.60	7.50	--	--	--	--	--	--	--	--
09/28/99	593.10	586.15	6.95	--	--	1390	7.85	<5.0	<5.0	<5.0	4,190
02/29/00	593.10	586.09	7.01	--	--	<50	1.35	<0.5	<0.5	<0.5	310
08/29/00	593.10	586.58	6.52	0.00	--	150 <sup>3</sup>	60	<0.50	0.79	0.78	570



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>C-4 (cont)</b>											
03/27/01	593.10	587.29	5.81	0.00	--	986	27.2	<2.50	3.25	4.11	252
09/05/01 <sup>4</sup>	593.10	586.72	6.38	0.00	3,800 <sup>5</sup>	330	140	0.84	<0.50	<1.5	580/520 <sup>1</sup>
03/04/02 <sup>4</sup>	593.10	587.44	5.66	0.00	2,900 <sup>6</sup>	170	67	<0.50	<0.50	<1.5	510
09/03/02 <sup>4</sup>	593.10	586.62	6.48	0.00	1,900 <sup>6</sup>	<50	12	<0.50	<0.50	<1.5	64
03/29/03 <sup>4</sup>	593.10	587.26	5.84	0.00	950 <sup>6</sup>	<50	3.3	<0.5	<0.5	<1.5	67
09/23/03 <sup>4,7</sup>	593.10	586.91	6.19	0.00	57 <sup>6</sup>	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04 <sup>7,8</sup>	593.10	587.12	5.98	0.00	1,900 <sup>6</sup>	1,500	310	5	2	4	520
09/13/04 <sup>7</sup>	593.10	588.22	4.88	0.00	1,300 <sup>6</sup>	840	260	3	2	1	990
<b>TRIP BLANK</b>											
03/25/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/24/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/02/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/02/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>TRIP BLANK (cont)</b>											
09/02/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/16/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/28/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/29/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/27/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
09/05/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/04/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
<b>QA</b>											
09/03/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/29/03	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
09/23/03 <sup>7</sup>	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/19/04 <sup>7</sup>	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/13/04 <sup>7</sup>	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

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**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to August 29, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

SPHT = Separate Phase Hydrocarbon Thickness

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

\* TOC elevations are referenced to msl.

\*\* GWE corrected for the presence of Separate Phase Hydrocarbons (SPH), correction factor:  $[(TOC-DTW)+(SPHT \times 0.80)]$ .

<sup>1</sup> Confirmation run.

<sup>2</sup> ORC installed.

<sup>3</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.

<sup>4</sup> ORC in well.

<sup>5</sup> Although requested on the Chain of Custody: Laboratory did not perform TPH-D analysis with silica-gel cleanup.

<sup>6</sup> TPH-D with silica gel cleanup.

<sup>7</sup> BTEX and MTBE by EPA Method 8260.

<sup>8</sup> ORC removed.

**Table 2**  
**Dissolved Oxygen Concentrations**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
C-2	08/29/00	1.97	--
	03/27/01	3.60	--
	09/05/01	2.80	--
	03/04/02	3.10	--
	09/03/02	2.70	--
	03/29/03	2.20	--
	09/23/03	0.50	--
C-4	08/29/00	2.11	--
	03/27/01	2.90	--
	09/05/01	2.30	--
	03/04/02	2.90	--
	09/03/02	2.10	--
	03/29/03	1.90	--
	09/23/03	0.40	--

**EXPLANATIONS:**

(mg/L) = Milligrams per liter

-- = Not Measured

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-1740  
6550 Moraga Avenue  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
C-2	09/05/01	--	<100	1,000	<2	240	30	<2	<2
	09/23/03	<50	--	12	--	--	--	--	--
	03/19/04	<50	--	370	--	--	--	--	--
	09/13/04	<50	--	530	--	--	--	--	--
C-3	09/05/01	--	<100	<2	<2	<2	<2	<2	<2
	03/19/04	<50	--	2	--	--	--	--	--
	09/13/04	SAMPLED ANNUALLY		--	--	--	--	--	--
C-4	09/05/01	--	<100	520	<2	<2	15	<2	<2
	09/23/03	<50	--	12	--	--	--	--	--
	03/19/04	<50	--	520	--	--	--	--	--
	09/13/04	<100	--	990	--	--	--	--	--

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
1,2-DCA = 1,2-Dichloroethane  
EDB = 1,2-Dibromoethane  
(ppb) = Parts per billion  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## 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 ChevronTexaco 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 #9-1740 Job Number: 386507  
 Site Address: 6550 Moraga Avenue Event Date: 9-13-04 (inclusive)  
 City: Oakland, CA Sampler: See

Well ID: C-2 Date Monitored: 9-13-04 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 26.91 ft.  
 Depth to Water: 5.41 ft.  
21.50 xVF 0.17 = 3.666 x3 case volume = Estimated Purge Volume: 11 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 Completed: \_\_\_\_\_ (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  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0935 Weather Conditions: clear  
 Sample Time/Date: 1000 9-13-04 Water Color: clear Odor: faint  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)
<u>0944</u>	<u>9</u>	<u>6.57</u>	<u>0.83</u>	<u>69.4</u>		
<u>0947</u>	<u>7</u>	<u>6.69</u>	<u>0.85</u>	<u>70.5</u>		
<u>0951</u>	<u>11</u>	<u>6.62</u>	<u>0.86</u>	<u>70.3</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-2</u>	<u>6 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)</u>
	<u>2 x Amber</u>	<u>YES</u>	<u>NF</u>	<u>LANCASTER</u>	<u>TPH-Dw/sg</u>

### COMMENTS:

\_\_\_\_\_

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1740 Job Number: 386507  
 Site Address: 6550 Moraga Avenue Event Date: 9-13-04 (inclusive)  
 City: Oakland, CA Sampler: Joe

Well ID: C-3 Date Monitored: 9-13-04 Well Condition: O.K.  
 Well Diameter: 2 in.  
 Total Depth: 18.86 ft.  
 Depth to Water: 5.29 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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume= Estimated Purge Volume: \_\_\_\_\_ 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 Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0.5 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-	x vob vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)
	x Amber	YES	NP	LANCASTER	TPH-Dw/sg

COMMENTS:  

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





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1740  
 Site Address: 6550 Moraga Avenue  
 City: Oakland, CA

Job Number: 386507  
 Event Date: 9-13-04 (inclusive)  
 Sampler: Joe

Well ID: C-4  
 Well Diameter: 2 in.  
 Total Depth: 2428 ft.  
 Depth to Water: 4.88 ft.  
19.40 xVF 0.17 = 3.30

Date Monitored: 9-13-04 Well Condition: O.K.

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

x3 case volume = Estimated Purge Volume: 10 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 Completed: \_\_\_\_\_ (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  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1010 Weather Conditions: clear  
 Sample Time/Date: 1035 9-13-04 Water Color: clear Odor: yes  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1018</u>	<u>3.5</u>	<u>6.50</u>	<u>0.26</u>	<u>70.5</u>		
<u>1021</u>	<u>7</u>	<u>6.48</u>	<u>0.30</u>	<u>70.2</u>		
<u>1024</u>	<u>10</u>	<u>6.51</u>	<u>0.33</u>	<u>70.4</u>		

### LABORATORY INFORMATION

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

COMMENTS: Replaced 2 of 3 1/4" bolts. One bolt is broken & frozen solid inside flange.

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

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

# Chevron California Region Analysis Request/Chain of Custody



01407-09

Acct. #: 10904

For Lancaster Laboratories use only  
Sample #: 4352082-84

Group# 912039  
SCR#:

Cambria MTI Project #: 61D-1978

Facility #: SS#9-1740 G-R#386507 Global ID#T0600100353  
 Site Address: 6550 MORAGA AVENUE, OAKLAND, CA  
 Chevron PM: MTI 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 #: 925-551-7899  
 Sampler: JOE ASEMIK  
 Service Order #: \_\_\_\_\_  Non SAR:

Matrix		Analyses Requested												
		Preservation Codes												
Soil	Water	Oil	Air	Total Number of Containers	BTX + MTBE 8260	TPH 8015 MOD	GRO	TPH 8015 MOD DRP	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	Ethanol (8260)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	

**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	Oil	Air	Total Number of Containers	BTX + MTBE 8260	TPH 8015 MOD	GRO	TPH 8015 MOD DRP	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	Ethanol (8260)	
QA	-	-	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
C-2	9-13-04	1000	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
C-4	"	1035	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**  
 STD. TAT 24 hour    72 hour    48 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)    **EDF/EDD**  
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>9-13-04</u>	Time: <u>12:00</u>	Received by: <u>[Signature]</u>	Date: <u>9/14/04</u>	Time: <u>1440</u>
Relinquished by: <u>[Signature]</u>	Date: <u>9/14/04</u>	Time: <u>1530</u>	Received by: <u>[Signature]</u>	Date: <u>9/14/04</u>	Time: <u>1530</u>
Relinquished by: <u>[Signature]</u>	Date: <u>9/14/04</u>	Time: <u>1600</u>	Received by: <u>[Signature]</u>	Date: <u>9/14/04</u>	Time: <u>1600</u>
Relinquished by Commercial Carrier: <u>UPS</u>	Temperature Upon Receipt: <u>1.6-3.2°</u>		Received by: <u>[Signature]</u>	Date: <u>9-15-04</u>	Time: <u>0850</u>
Custody Seals Intact? <u>Yes</u>					



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2661 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

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

Prepared by:

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

## SAMPLE GROUP

The sample group for this submittal is 912039. Samples arrived at the laboratory on Wednesday, September 15, 2004. The PO# for this group is 99011184 and the release number is MTI.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-040913	NA Water	4352082
C-2-W-040913	Grab Water	4352083
C-4-W-040913	Grab Water	4352084

1 COPY TO Cambria C/O Gettler- Ryan  
ELECTRONIC Gettler-Ryan  
COPY TO

Attn: Deanna L. Harding  
Attn: Cheryl Hansen



## Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2661 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Victoria M. Martell".

Victoria M. Martell  
Chemist



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4352082

QA-T-040913 NA Water  
Facility# 91740 Job# 386507 MTI# 61D-1978 GRD  
6550 Moraga Ave-Oakland T0600100353 QA  
Collected: 09/13/2004

Account Number: 10904

Submitted: 09/15/2004 08:50  
Reported: 09/24/2004 at 10:58  
Discard: 10/25/2004

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

MORQA

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	09/17/2004 22:53	Michael F Barrow	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/21/2004 23:06	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2004 22:53	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2004 23:06	Elizabeth M Taylor	n.a.

Lancaster Laboratories Sample No. WW 4352083

 C-2-W-040913 Grab Water  
 Facility# 91740 Job# 386507 MTI# 61D-1978 GRD  
 6550 Moraga Ave-Oakland T0600100353 C-2  
 Collected: 09/13/2004 10:00 by JA

Account Number: 10904

 Submitted: 09/15/2004 08:50  
 Reported: 09/24/2004 at 10:58  
 Discard: 10/25/2004

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

MORC2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO - Waters	n.a.	67.	Detection Limit	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.					
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
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	530.	10.	ug/l	20
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		Analyst	Dilution Factor
				Date and Time			
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/20/2004	11:08	Victoria M Martell	1
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	09/21/2004	01:21	Tracy A Cole	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/22/2004	13:54	Anita M Dale	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/22/2004	14:18	Anita M Dale	20
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2004	11:08	Victoria M Martell	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030E	1	09/22/2004	13:54	Anita M Dale	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	09/19/2004	09:00	Claudia M Tabora	1

Lancaster Laboratories Sample No. **WW 4352084**
**C-4-W-040913**      **Grab**      **Water**  
 Facility# 91740 Job# 386507 MTI# 61D-1978      **GRD**  
 6550 Moraga Ave-Oakland T0600100353 C-4  
 Collected: 09/13/2004 10:35 by JA

Account Number: 10904

 Submitted: 09/15/2004 08:50  
 Reported: 09/24/2004 at 10:58  
 Discard: 10/25/2004

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

MORC4

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
01728	TPH-GRO - Waters	n.a.	840.	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.					
02202	TPH-DRO CALUFT (Water) w/Si' Gel	n.a.	1,300.	50.	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	100.	ug/l	2
02010	Methyl Tertiary Butyl Ether	1634-04-4	990.	10.	ug/l	20
05401	Benzene	71-43-2	260.	1.	ug/l	2
05407	Toluene	108-88-3	3.	1.	ug/l	2
05415	Ethylbenzene	100-41-4	2.	1.	ug/l	2
06310	Xylene (Total)	1330-20-7	1.	1.	ug/l	2
	Due to the level of methyl tertiary butyl ether, the reporting limits 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 and Time			
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/17/2004	23:51	Michael F Barrow	5
02202	TPH-DRO CALUFT (Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	09/21/2004	01:44	Tracy A Cole	1
01594	BTEX+5	SW-846 8260B	1	09/22/2004	14:43	Anita M Dale	2
01594	Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/22/2004	15:08	Anita M Dale	20
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2004	23:51	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/22/2004	14:43	Anita M Dale	n.a.
02135	Extraction - DRO Water Special	TFH by CA LUFT	1	09/19/2004	09:00	Claudia M Tabora	1

## Quality Control Summary

 Client Name: ChevronTexaco c/o Cambria  
 Reported: 09/24/04 at 10:58 AM

Group Number: 912039

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04261A08B TPH-GRO - Waters	N.D.	50.	ug/l	90	107	70-130	17	30
Batch number: 04261A08D TPH-GRO - Waters	N.D.	50.	ug/l	90	107	70-130	17	30
Batch number: 042620021A TPH-DRO CALUFT(Water) w/Si Gel	N.D.	50.	ug/l	91	79	61-126	15	20
Batch number: Z042653AA Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92		77-127		
Benzene	N.D.	0.5	ug/l	90		85-117		
Toluene	N.D.	0.5	ug/l	89		85-115		
Ethylbenzene	N.D.	0.5	ug/l	88		82-119		
Xylene (Total)	N.D.	0.5	ug/l	89		83-113		
Batch number: Z042661AA Ethanol	N.D.	50.	ug/l	83		46-145		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96		77-127		
Benzene	N.D.	0.5	ug/l	100		85-117		
Toluene	N.D.	0.5	ug/l	98		85-115		
Ethylbenzene	N.D.	0.5	ug/l	97		82-119		
Xylene (Total)	N.D.	0.5	ug/l	97		83-113		

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04261A08B TPH-GRO - Waters	111		63-154						
Batch number: 04261A08D TPH-GRO - Waters	111		63-154						
Batch number: Z042653AA Methyl Tertiary Butyl Ether	87	91	69-134	2	30				
Benzene	127	116	83-128	6	30				
Toluene	109	106	83-127	2	30				
Ethylbenzene	96	98	82-129	2	30				
Xylene (Total)	104	102	82-130	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.



## Quality Control Summary

Client Name: ChevronTexaco c/o Cambria  
Reported: 09/24/04 at 10:58 AM

Group Number: 912039

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z042661AA	Sample number(s): 4352083-4352084							
Ethanol	83	73	33-153	13	30			
Methyl Tertiary Butyl Ether	95	96	69-134	0	30			
Benzene	101	101	83-128	1	30			
Toluene	99	100	83-127	2	30			
Ethylbenzene	97	100	82-129	3	30			
Xylene (Total)	96	98	82-130	3	30			

### Surrogate Quality Control

Analysis Name: TPH-GRO - Waters  
Batch number: 04261A08E  
Trifluorotoluene-F

4352082	106
4352084	108
Blank	106
LCS	112
LCSD	118
MS	103

Limits: 57-146

Analysis Name: TPH-GRO - Waters  
Batch number: 04261A08D  
Trifluorotoluene-F

4352083	106
Blank	106
LCS	112
LCSD	118
MS	103

Limits: 57-146

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel  
Batch number: 042620021A  
Orthoterphenyl

4352083	95
4352084	91
Blank	93
LCS	123
LCSD	109

Limits: 57-128

Analysis Name: ETEX+MTBE by 6260B  
Batch number: Z042653AA  
Dibromofluoromethane

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d6	4-Bromofluorobenzene
4352082	96	92	95	88

\*- 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  
Reported: 09/24/04 at 10:58 AM

Group Number: 912039

### Surrogate Quality Control

Blank	96	95	96	88
LCS	96	93	94	92
MS	96	88	95	92
MSD	96	90	96	94
<hr/>				
Limits:	81-120	82-112	85-112	83-113
<hr/>				
Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH				
Batch number: Z042661AA				
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4352083	99	90	96	88
4352084	94	88	97	88
Blank	93	89	94	88
LCS	95	88	95	91
MS	97	90	94	91
MSD	97	92	94	93
<hr/>				
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 is $\geq$ the Method Detection Limit (MDL) and $<$ the 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 $\geq$ 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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