

**Chevron Environmental  
Management Company**  
6001 Bollinger Canyon Rd, K2236  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-9559  
Fax 925-842-8370

**Dana Thurman**  
Project Manager

Ro 2438 ✓

## ChevronTexaco

October 24, 2005

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

Alameda County  
OCT 26 2005  
Environmental Health

Re: Chevron Service Station # 9-2029

Address: 890 West MacArthur Blvd., Oakland, California

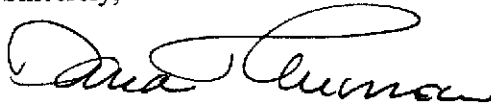
I have reviewed the attached routine groundwater monitoring report dated October 6, 2005.

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,



Dana Thurman  
Project Manager

Enclosure: Report



# GETTLER-RYAN INC.

## TRANSMITTAL

October 6, 2005  
G-R #386911

Alameda County  
OCT 26 2005  
Environmental Health

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: Former Chevron Service Station  
#9-2029  
890 West MacArthur Blvd.  
Oakland, California  
RO 0002438  
MTI: 61H-1974

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	October 6, 2005	Groundwater Monitoring and Sampling Report Third Quarter - Event of September 2, 2005

### COMMENTS:

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

Mr. Dana Thurman, ChevronTexaco Company, P.O. Box 6012, Room K2236, San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **October 21, 2005**, 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, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Enclosures

trans/9-2029-DT



# GETTLER-RYAN INC.

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October 6, 2005  
G-R Job #386911

Mr. Dana Thurman  
ChevronTexaco Company  
P.O. Box 6012, Room K2236  
San Ramon, CA 94583

**RE: Third Quarter Event of September 2, 2005**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-2029  
890 West MacArthur Boulevard  
Oakland, California

Dear Mr. Thurman:

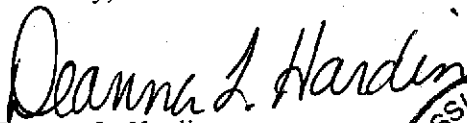
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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

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

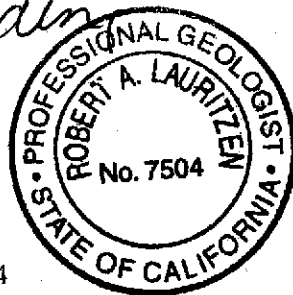
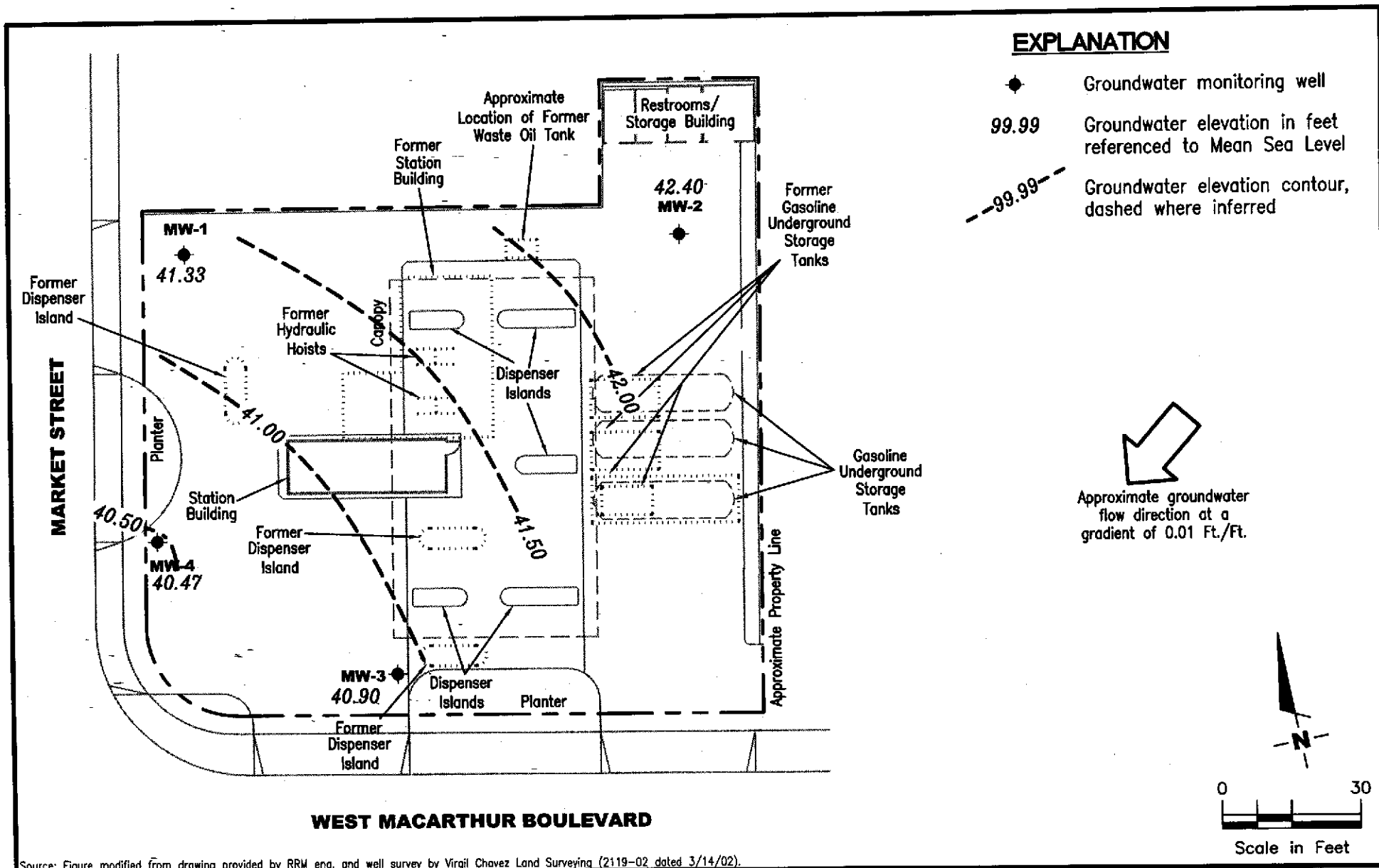


Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM eng. and well survey by Virgil Chavez Land Surveying (2119-02 dated 3/14/02).

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

**POTENTIOMETRIC MAP**  
 Former Chevron Service Station #9-2029  
 890 West MacArthur Boulevard  
 Oakland, California

FIGURE

1

PROJECT NUMBER  
 386911

REVIEWED BY

DATE  
 September 2, 2005

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-2029  
890 West MacArthur Blvd.  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>									
03/12/02 <sup>1</sup>	50.71	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
06/07/02	50.71	8.69	42.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
09/13/02	50.71	9.28	41.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
12/13/02	50.71	8.48	42.23	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
03/01/03	50.71	7.34	43.37	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>2</sup>
06/27/03 <sup>3</sup>	50.71	9.29	41.42	<50	<0.5	0.6	<0.5	<0.5	<0.5 -
09/30/03 <sup>3</sup>	50.71	10.17	40.54	<50	<0.5	0.6	<0.5	<0.5	<0.5 -
12/03/03 <sup>3</sup>	50.71	7.82	42.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 <sup>3</sup>	50.71	6.57	44.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 <sup>3</sup>	50.71	9.78	40.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 <sup>3</sup>	50.71	9.91	40.80	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04 <sup>3</sup>	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 <sup>3</sup>	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 <sup>3</sup>	50.71	8.59	42.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 <sup>3</sup>	50.71	9.38	41.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>MW-2</b>									
03/12/02 <sup>1</sup>	52.57	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3 <sup>2</sup>
06/07/02	52.57	8.65	43.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
09/13/02	52.57	9.58	42.99	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
12/13/02	52.57	8.50	44.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
03/01/03	52.57	7.00	45.57	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>2</sup>
06/27/03 <sup>3</sup>	52.57	9.59	42.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03 <sup>3</sup>	52.57	10.64	41.93	<50	<0.5	<0.5	<0.5	<0.5	0.7
12/03/03 <sup>3</sup>	52.57	7.54	45.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 <sup>3</sup>	52.57	6.05	46.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 <sup>3</sup>	52.57	10.15	42.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 <sup>3</sup>	52.57	10.14	42.43	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04 <sup>3</sup>	52.57	2.29	50.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 <sup>3</sup>	52.57	2.44	50.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 <sup>3</sup>	52.57	8.99	43.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 <sup>3</sup>	52.57	10.17	42.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-2029  
890 West MacArthur Blvd.  
Oakland, California

WELL ID/ DATE	TOC* ( <i>l.</i> )	DTW ( <i>ft.</i> )	GWE ( <i>mst</i> )	TPH-G ( <i>ppb</i> )	B ( <i>ppb</i> )	T ( <i>ppb</i> )	E ( <i>ppb</i> )	X ( <i>ppb</i> )	MTBE ( <i>ppb</i> )
<b>MW-3</b>									
03/12/02 <sup>1</sup>	50.31	6.50	43.81	12,000	600	8.5	1,100	370	700/650 <sup>2</sup>
06/07/02	50.31	7.74	42.57	14,000	630	8.8	1,200	160	520/490 <sup>2</sup>
09/13/02	50.31	9.73	40.58	3,000	270	3.2	200	11	600/640 <sup>2</sup>
12/13/02	50.31	8.60	41.71	24,000	1,100	14	2,400	220	650/540 <sup>2</sup>
03/01/03	50.31	6.75	43.56	16,000	500	9.0	1,200	130	460/330 <sup>2</sup>
06/27/03 <sup>3</sup>	50.31	9.25	41.06	9,500	390	6	450	30	470
09/30/03 <sup>3</sup>	50.31	10.31	40.00	2,000	110	1	100	3	710
12/03/03 <sup>3</sup>	50.31	8.18	42.13	19,000	970	8	2,100	85	420
03/10/04 <sup>3</sup>	50.31	6.10	44.21	15,000	550	6	960	95	220
06/30/04 <sup>3</sup>	50.31	9.80	40.51	3,200	150	1	100	3	660
09/30/04 <sup>3</sup>	50.31	10.18	40.13	1,900	66	0.8	84	4	690
12/29/04 <sup>3</sup>	50.31	4.58	45.73	16,000	470	7	820	47	170
03/23/05 <sup>3</sup>	50.31	5.07	45.24	18,000	380	6	960	58	140
06/22/05 <sup>3</sup>	50.31	8.12	42.19	16,000	700	6	950	62	300
09/02/05 <sup>3</sup>	50.31	9.41	40.90	8,400	380	4	510	41	440
<b>MW-4</b>									
03/12/02 <sup>1</sup>	49.93	5.34	44.59	9,700	360	5.3	1,100	150	170/170 <sup>2</sup>
06/07/02	49.93	8.52	41.41	7,300	170	2.7	280	21	200/120 <sup>2</sup>
09/13/02	49.93	9.86	40.07	5,800	92	4.5	80	14	190/160 <sup>2</sup>
12/13/02	49.93	9.42	40.51	10,000	250	2.2	330	19	170/200 <sup>2</sup>
03/01/03	49.93	7.33	42.60	12,000	300	4.6	900	110	160/100 <sup>2</sup>
06/27/03 <sup>3</sup>	49.93	9.62	40.31	7,500	110	2	200	58	130
09/30/03 <sup>3</sup>	49.93	11.13	38.80	3,600	18	<1	16	7	520
12/03/03 <sup>3</sup>	49.93	7.80	42.13	16,000	1,000	6	720	52	73
03/10/04 <sup>3</sup>	49.93	6.69	43.24	2,200	230	3	610	71	55
06/30/04 <sup>3</sup>	49.93	10.33	39.60	7,700	59	<1	78	17	110
09/30/04 <sup>3</sup>	49.93	10.75	39.18	4,800	100	1	33	10	400
12/29/04 <sup>3</sup>	49.93	3.34	46.59	13,000	250	3	480	27	42
03/23/05 <sup>3</sup>	49.93	4.24	45.69	12,000	130	2	280	16	24
06/22/05 <sup>3</sup>	49.93	7.95	41.98	6,400	290	2	11	11	18
09/02/05 <sup>3</sup>	49.93	9.46	40.47	3,700	180	1	13	7	18

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-2029  
890 West MacArthur Blvd.  
Oakland, California

WELL ID/ DATE	TOC <sup>a</sup> (ft.)	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>TRIP BLANK</b>									
QA				<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/12/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/01/03	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/27/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/03/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.7	<0.8	<0.8	<0.5
09/30/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 <sup>3</sup>	--	--	--	<50	<0.5	1 <sup>4</sup>	<0.5	1 <sup>4</sup>	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-2029  
890 West MacArthur Blvd.  
Oakland, California

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**EXPLANATIONS:**

TOC = Top of Casing  
(ft.) = Feet  
DTW = Depth to Water  
GWE = Groundwater Elevation  
(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes

MTBE = Methyl tertiary butyl ether  
(ppb) = Parts per billion  
-- = Not Measured/Not Analyzed  
QA = Quality Assurance/Trip Blank

- \* TOC elevations were surveyed on March 14, 2002, by Virgil Chavez Land Surveying. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).
- <sup>1</sup> Well development performed.
- <sup>2</sup> MTBE by EPA method 8260.
- <sup>3</sup> BTEX and MTBE by EPA Method 8260.
- <sup>4</sup> Analytical result confirmed.



**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-2029  
890 West MacArthur Blvd.  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	03/12/02	--	<100	<2	<2	<2	<2	<2	<2
	06/07/02	--	<100	<2	<2	<2	<2	<2	<2
	09/13/02	--	<100	<2	<2	<2	<2	<2	<2
	12/13/02	--	<100	<2	<2	<2	<2	<2	<2
	03/01/03	--	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/27/03	--	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-2	03/12/02	--	<100	3	<2	<2	<2	<2	<2
	06/07/02	--	<100	<2	<2	<2	<2	<2	<2
	09/13/02	--	<100	<2	<2	<2	<2	<2	<2
	12/13/02	--	<100	<2	<2	<2	<2	<2	<2
	03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/03	<50	<5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-2029  
890 West MacArthur Blvd.  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	03/12/02	--	<100	650	<2	<2	18	<2	<2
	06/07/02	--	230	490	<5.0	<5.0	11	<5.0	<5.0
	09/13/02	--	170	640	<2	<2	8	<2	<2
	12/13/02	--	240	540	<2	<2	29	31	<2
	03/01/03	--	160	330	<0.5	<0.5	10	<0.5	<0.5
	06/27/03	--	200	470	<0.5	<0.5	11	<0.5	<0.5
	09/30/03	<50	120	710	<0.5	<0.5	6	0.7	<0.5
	12/03/03	<250	200	420	<3	<3	14	<3	<3
	03/10/04	<50	140	220	<0.5	<0.5	5	<0.5	<0.5
	06/30/04	<50	100	660	<0.5	<0.5	5	<0.5	<0.5
	09/30/04	<50	72	690	<0.5	<0.5	4	0.5	<0.5
	12/31/04	<50	77	170	<0.5	<0.5	5	<0.5	<0.5
	03/23/05	<50	<5	140	<0.5	<0.5	4	<0.5	3
	06/22/05	<250	150	300	<3	<3	6	<3	<3
09/02/05	<100	99	440	<1	<1	<1	<1	<1	
MW-4	03/12/02	--	<100	170	<2	<2	13	<2	<2
	06/07/02	--	<100	120	<2	<2	14	<2	<2
	09/13/02	--	<100	160	<2	<2	14	<2	<2
	12/13/02	--	<100	200	<2	<2	17	<2	<2
	03/01/03	--	19	100	<0.5	<0.5	8	<0.5	<0.5
	06/27/03	--	22	130	<0.5	<0.5	11	<0.5	<0.5
	09/30/03	<100	<10	520	<1	<1	9	<1	<1
	12/03/03	<50	18	73	<0.5	<0.5	5	<0.5	<0.5
	03/10/04	<50	11	55	<0.5	<0.5	4	<0.5	<0.5
	06/30/04	<100	<10	110	<1	<1	6	<1	<1
	09/30/04	<50	17	400	<0.5	<0.5	7	<0.5	<0.5
	12/31/04	<50	11	42	<0.5	<0.5	2	<0.5	<0.5
	03/23/05	<50	<5	24	<0.5	<0.5	1	<0.5	0.9
	06/22/05	<50	15	18	<0.5	<0.5	1	<0.5	<0.5
09/02/05	<50	6	18	<0.5	<0.5	<0.5	<0.5	<0.5	

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-2029  
890 West MacArthur Blvd.  
Oakland, California

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**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 #9-2029  
 Site Address: 890 West Macarthur Blvd.  
 City: Oakland, CA

Job Number: 386911  
 Event Date: 9/2/05 (inclusive)  
 Sampler: Travis V.

Well ID: MW-1  
 Well Diameter: 2 in.  
 Total Depth: 24.91 ft.  
 Depth to Water: 9.38 ft.  
15.53

Date Monitored: 9/2/05 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 = 2.64 x3 case volume= Estimated Purge Volume: 7.9 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): 04:40 Weather Conditions: Sunny  
 Sample Time/Date: 5:01/9-2-05 Water Color: Clear Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>04:42</u>	<u>2.5</u>	<u>7.64</u>	<u>418</u>	<u>18.5</u>		
<u>04:47</u>	<u>5.0</u>	<u>7.13</u>	<u>427</u>	<u>18.9</u>		
<u>04:50</u>	<u>7.5</u>	<u>7.00</u>	<u>429</u>	<u>18.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
					LANCASTER
MW-	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTX+MTBE(8260)/ 8 OXYS(8260)

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911  
 Site Address: 890 West Macarthur Blvd. Event Date: 9/2/05 (inclusive)  
 City: Oakland, CA Sampler: Travis V.

Well ID: MW-2 Date Monitored: 9/2/05 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.19 ft.  
 Depth to Water: 10.17 ft.  
 Volume Factor (VF): 17 = 2.38 x3 case volume = Estimated Purge Volume: 7.15 gal.

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

Purge Equipment:  
 Disposable Bailer X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer X  
 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): 5:15 Weather Conditions: Sunny  
 Sample Time/Date: 5:35 9/2/05 Water Color: Clear Odor: -  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>5:18</u>	<u>2.5</u>	<u>3.48</u>	<u>449</u>	<u>17.9</u>	_____	_____
<u>5:20</u>	<u>5.0</u>	<u>7.15</u>	<u>450</u>	<u>19.0</u>	_____	_____
<u>5:25</u>	<u>7.0</u>	<u>6.86</u>	<u>459</u>	<u>18.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ 8 OXYS(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911  
 Site Address: 890 West Macarthur Blvd. Event Date: 9/2/05 (inclusive)  
 City: Oakland, CA Sampler: Travis V.

Well ID: MW-3 Date Monitored: 9/2/05 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 24.59 ft.  
 Depth to Water: 9.41 ft.  
15.18 xVF .17 = 2.58 x3 case volume = Estimated Purge Volume: 7.74 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 X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 8 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): 5:37 Weather Conditions: Sunny  
 Sample Time/Date: 6:00 9/2/05 Water Color: Clear Odor: Strong  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>5:40</u>	<u>2.5</u>	<u>6.95</u>	<u>613</u>	<u>18.4</u>	_____	_____
<u>5:48</u>	<u>5.0</u>	<u>6.73</u>	<u>675</u>	<u>19.3</u>	_____	_____
<u>5:52</u>	<u>7.5</u>	<u>6.69</u>	<u>718</u>	<u>19.7</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)/ 8 OXYS(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911  
 Site Address: 890 West Macarthur Blvd. Event Date: 9/2/05 (inclusive)  
 City: Oakland, CA Sampler: Travis U

Well ID: MW-4 Date Monitored: 9/2/05 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.71 ft.  
 Depth to Water: 9.46 ft.  
15.25 xVF .17 = 2.59 x3 case volume = Estimated Purge Volume: 7.77 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 X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer X  
 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): 610 Weather Conditions: Sunny  
 Sample Time/Date: 631 9/2/05 Water Color: Clear Odor: Slight  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NE If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>614</u>	<u>2.5</u>	<u>7.27</u>	<u>715</u>	<u>17.9</u>	_____	_____
<u>619</u>	<u>5.0</u>	<u>7.02</u>	<u>726</u>	<u>18.9</u>	_____	_____
<u>624</u>	<u>7.5</u>	<u>7.02</u>	<u>763</u>	<u>18.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ 8 OXYS(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

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



# Chevron California Region Analysis Request/Chain of Custody



Cambria MTI Project # 61H-1974

090605-08

Acct. #: 10904

For Lancaster Laboratories use only  
 Sample #: 4597932-36  
 Grp # 958211

SCR#:

Facility #: SS#9-2029 G-R#386911 Global ID#  
 Site Address: 890 WEST MACARTHUR BLVD., OAKLAND, CA  
 Chevron PM: MTI Lead Consultant: CAMBRIABE  
 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: Travis Vandewort  
 Service Order #:  Non SAR:

Matrix	Analyses Requested									
	Preservation Codes									
Soil Water Oil Air	H	H		X						
	Potable NPDES									
Total Number of Containers										
	BTEX + MTBE 8260	8021								
	TPH 8015 MOD	GRO								
	TPH 8015 MOD DRO	Silica Gel Cleanup								
	8260 full scan									
	Oxygenates									
	Lead 7420	7421								

**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	BTEX + MTBE 8260	8021	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	
QA	9/2/05		X			X			2	X	X									
MW-1	9/2/05	501	X			X			6	X	X									
MW-2	9/2/05	515	X			X			6	X	X									
MW-3	9/2/05	600	X			X			6	X	X									
MW-4	9/2/05	631	X			X			6	X	X									

**Comments / Remarks**

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

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

Relinquished by: S. Van    Date: 9/2/05    Time: 1000

Relinquished by: Deanna    Date: 9/6/05    Time: 1240

Relinquished by: Elizabeth    Date: 9/6/05    Time: 1240

Relinquished by Commercial Carrier:  
 UPS     FedEx    Other \_\_\_\_\_

Temperature Upon Receipt: 3.3° - 1.5°

Received by: Deanna    Date: 9/2/05    Time: 1240

Received by: Elizabeth    Date: 9/6/05    Time: 1240

Received by: TEST    Date: 9/6/05    Time: 1240

Received by: [Signature]    Date: 9/7/05    Time: 0905

Custody Seals Intact?     Yes     No



September 22, 2005

Ms. Deanna Harding  
Gettler-Ryan Inc.  
Suite J  
6747 Sierra Court,  
Dublin, CA 94568

Subject: Trip Blank Contamination  
LLI Sample Number: 4597932  
Facility Number: 92029  
City, State: Oakland, CA

Dear Ms. Harding:

Between July 15, 2005 and September 15, 2005, we experienced low-level toluene and total xylene hits in trip blanks submitted with your samples. The contamination range was 0.5 – 2.7 µg/L for each analyte. All of these hits were just above the Method Detection Limit (MDL) and well below the Level of Quantitation (LOQ).

Lancaster Laboratories performed an investigation to determine the cause of the low-level contamination in the trip blank; however, we were unable to identify the cause. The investigation included discussions with our bottles vendor and a review of the analytical lot check that was performed on the hydrochloric acid used to preserve the bottles. The laboratory storage blanks that were analyzed during the same time frame did not show a trend in toluene hits.

Based on this investigation, the following corrective action plan has been put into place to prevent a recurrence:

- Each shipment of 40-mL vials that is received at the laboratory will be tested for volatile contamination prior to trip blank preparation. If there are multiple lots in a shipment, a bottle should be taken from each lot. This additional testing will help to eliminate the possibility of the laboratory preparing trip blanks in contaminated bottles.
- The volatile laboratories have been instructed to investigate any evidence of contamination in trip blank samples prior to releasing analytical reports.

If you have questions or concerns about this corrective action plan, please contact me at 717-656-2300, Ext. 1812.

Sincerely,

A handwritten signature in cursive script that reads "Amy L. Doupe".

Amy L. Doupe, B.S.  
Senior Specialist  
Quality Assurance

ALD/mcs

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

Shipping Address:  
Lancaster Laboratories, Inc.  
2425 New Holland Pike  
Lancaster, PA 17601

Environmental • Pharmaceuticals





# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco c/o Cambria  
Suite 12  
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 958211. Samples arrived at the laboratory on Wednesday, September 07, 2005. The PO# for this group is 99011184 and the release number is MTL.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
QA-T-050902	NA	Water	4597932
MW-1-W-050902	Grab	Water	4597933
MW-2-W-050902	Grab	Water	4597934
MW-3-W-050902	Grab	Water	4597935
MW-4-W-050902	Grab	Water	4597936

1 COPY TO  
ELECTRONIC  
COPY TO

Cambria C/O Gettler- Ryan  
Gettler-Ryan

Attn: Deanna L. Harding  
Attn: Cheryl Hansen




## Analysis Report

2425 New Holland Pike, PO Box 12425, Landaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Questions? Contact your Client Services Representative  
Lynn M Frederiksen at (717) 656-2300

Respectfully Submitted,

  
Robin C. Ruske  
Senior Specialist



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4597932

QA-T-050902 NA Water  
 Facility# 92029 Job# 386911 MTI# 61H-1974 GRD  
 890 W Macarthur-Oakland 92029 QA  
 Collected: 09/02/2005

Account Number: 10904

Submitted: 09/07/2005 09:05  
 Reported: 09/20/2005 at 13:15  
 Discard: 10/21/2005

ChevronTexaco c/o Cambria  
 Suite 12  
 4111 Citrus Avenue  
 Rocklin CA 95677

QAMAC:

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters 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.	n.a.	N.D.	50.	ug/l	1
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	1.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	1.	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	09/13/2005 12:02	K. Robert Caulfeild-James	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/13/2005 04:13	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2005 12:02	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/13/2005 04:13	Dawn M Harle	n.a.

Lancaster Laboratories Sample No. WW 4597933

 MW-1-W-050902 Grab Water  
 Facility# 92029 Job# 386911 MTI# 61H-1974 GRD  
 890 W Macarthur-Oakland 92029 MW-1  
 Collected: 09/02/2005 05:01 by TV

Account Number: 10904

 Submitted: 09/07/2005 09:05  
 Reported: 09/20/2005 at 13:15  
 Discard: 10/21/2005

 ChevronTexaco c/o Cambria  
 Suite 12  
 4111 Citrus Avenue  
 Rocklin CA 95677

W1MAC

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.						
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
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/13/2005 14:55	K. Robert Caulfeild-James	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/13/2005 01:05	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2005 14:55	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/13/2005 01:05	Dawn M Harle	n.a.

Lancaster Laboratories Sample No. **WW 4597934**

MW-2-W-050902                      Grab                      Water  
 Facility# 92029    Job# 386911    MTI# 61H-1974                      GRD  
 890 W Macarthur-Oakland    92029                      MW-2  
 Collected: 09/02/2005 05:15                      by TV

Account Number: 10904

Submitted: 09/07/2005 09:05  
 Reported: 09/20/2005 at 13:15  
 Discard: 10/21/2005

ChevronTexaco c/o Cambria  
 Suite 12  
 4111 Citrus Avenue  
 Rocklin CA 95677

W2MAC

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.					
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
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	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	09/13/2005 15:24	K. Robert Caulfeild-James	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/13/2005 02:08	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2005 15:24	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/13/2005 02:08	Dawn M Harle	n.a.

Lancaster Laboratories Sample No. WW 4597935

 MW-3-W-050902                      Grab                      Water  
 Facility# 92029    Job# 386911    MTI# 61H-1974                      GRD  
 890 W Macarthur-Oakland    92029                      MW-3  
 Collected: 09/02/2005 06:00                      by TV

Account Number: 10904

 Submitted: 09/07/2005 09:05  
 Reported: 09/20/2005 at 13:15  
 Discard: 10/21/2005

 ChevronTexaco c/o Cambria  
 Suite 12  
 4111 Citrus Avenue  
 Rocklin CA 95677

W3MAC

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters, 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.	n.a.	8,400.	250.	ug/l	5
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	440.	5.	ug/l	10
02011	di-Isopropyl ether	108-20-3	N.D.	1.	ug/l	2
02013	Ethyl t-butyl ether	637-92-3	N.D.	1.	ug/l	2
02014	t-Amyl methyl ether	994-05-8	N.D.	1.	ug/l	2
02015	t-Butyl alcohol	75-65-0	99.	10.	ug/l	2
05401	Benzene	71-43-2	380.	1.	ug/l	2
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	2
05407	Toluene	108-88-3	4.	1.	ug/l	2
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	2
05415	Ethylbenzene	100-41-4	510.	5.	ug/l	10
06310	Xylene (Total)	1330-20-7	41.	1.	ug/l	2

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

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	1	09/13/2005	21:39	K. Robert Caulfeild-James	5
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/13/2005	02:28	Dawn M Harle	2
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/13/2005	02:49	Dawn M Harle	10
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2005	21:39	K. Robert Caulfeild-James	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/13/2005	02:28	Dawn M Harle	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/13/2005	02:49	Dawn M Harle	n.a.





# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW 4597936**

MW-4-W-050902                      Grab                      Water  
 Facility# 92029    Job# 386911    MTI# 61H-1974                      GRD  
 890 W Macarthur-Oakland    92029                      MW-4  
 Collected: 09/02/2005 06:31                      by TV

Account Number: 10904

Submitted: 09/07/2005 09:05  
 Reported: 09/20/2005 at 13:15  
 Discard: 10/21/2005

ChevronTexaco c/o Cambria  
 Suite 12  
 4111 Citrus Avenue  
 Rocklin CA 95677

W4MAC

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	3,700.	100.	ug/l	2
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.						
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	18.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	6.	5.	ug/l	1
05401	Benzene	71-43-2	180.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	1.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	13.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	7.	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	09/14/2005 19:44	Martha L Seidel	2
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	Method SW-846 8260B	1	09/13/2005 03:10	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	2	09/14/2005 19:44	Martha L Seidel	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/13/2005 03:10	Dawn M Harle	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco c/o Cambria  
 Reported: 09/20/05 at 01:15 PM

Group Number: 958211

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: 05256A16A TPH-GRO - Waters	N.D.	50.	ug/l	99	106	70-130	8	30
Batch number: 05257A16A TPH-GRO - Waters	N.D.	50.	ug/l	110	109	70-130	1	30
Batch number: Z052553AA	Sample number(s): 4597932-4597936							
Ethanol	N.D.	50.	ug/l	134		30-155		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93		77-127		
di-Isopropyl ether	N.D.	0.5	ug/l	92		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	96		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	96		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	96		60-133		
Benzene	N.D.	0.5	ug/l	95		85-117		
1,2-Dichloroethane	N.D.	0.5	ug/l	104		77-132		
Toluene	N.D.	0.5	ug/l	98		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	88		81-114		
Ethylbenzene	N.D.	0.5	ug/l	98		82-119		
Xylene (Total)	N.D.	0.5	ug/l	100		83-113		

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05256A16A TPH-GRO - Waters	Sample number(s): 4597932-4597935							
	118		63-154					
Batch number: 05257A16A TPH-GRO - Waters	Sample number(s): 4597936							
	115	118	63-154	3	30			
Batch number: Z052553AA	Sample number(s): 4597932-4597936							
Ethanol	101	119	26-162	16	30			
Methyl Tertiary Butyl Ether	96	98	69-134	2	30			
di-Isopropyl ether	94	95	75-130	2	30			
Ethyl t-butyl ether	98	100	78-119	2	30			
t-Amyl methyl ether	99	101	72-125	1	30			
t-Butyl alcohol	94	96	56-134	2	30			
Benzene	102	103	83-128	2	30			
1,2-Dichloroethane	112	114	70-143	2	30			
Toluene	106	106	83-127	1	30			
1,2-Dibromoethane	90	89	78-120	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: 09/20/05 at 01:15 PM

Group Number: 958211

### 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
Ethylbenzene	106	106	82-129	0	30				
Xylene (Total)	107	107	82-130	0	30				

### Surrogate Quality Control

Analysis Name: TPH-GRO - Waters  
Batch number: 05256A16A  
Trifluorotoluene-F

4597932	93
4597933	92
4597934	92
4597935	108
Blank	91
LCS	94
LCSD	94
MS	94

Limits: 63-135

Analysis Name: TPH-GRO - Waters  
Batch number: 05257A16A  
Trifluorotoluene-F

4597936	116
Blank	92
LCS	95
LCSD	94
MS	96
MSD	94

Limits: 63-135

Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH  
Batch number: Z052553AA  
Dibromofluoromethane      1,2-Dichloroethane-d4      Toluene-d8      4-Bromofluorobenzene

4597932	97	94	94	91
4597933	101	98	93	92
4597934	100	98	93	93
4597935	96	99	93	97
4597936	95	99	91	107
Blank	98	95	93	90
LCS	96	93	93	96
MS	99	94	93	99
MSD	99	97	93	97

Limits: 80-116      77-113      80-113      78-113

\*- 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.

## Quality Control Summary

Client Name: ChevronTexaco c/o Cambria  
Reported: 09/20/05 at 01:15 PM

Group Number: 958211

\*- 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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