



# GETTLER-RYAN INC.

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Alameda County  
Environmental Health

## TRANSMITTAL

September 4, 2007

G-R #386895

TO: Ms. Charlotte Evans  
Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

CC: Mr. Satya Sinha  
Chevron Environmental  
Management Company  
P.O. Box 6012, Room K2256  
San Ramon, California 94583

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

RE: **Chevron Service Station  
#9-3600  
2200 Telegraph Avenue  
Oakland, California  
RO 0002435**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 30, 2007	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 27, 2007

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced report for **your use and distribution to the following (via PDF):**

Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 (Distributed by Cambria via PDF)

Enclosures

trans/9-3600-SS



**Satya P. Sinha**  
Project Manager  
Retail and Terminal  
Business Unit

**Chevron Environmental  
Management Company**  
6001 Bollinger Canyon Road,  
Room K2256  
San Ramon, CA 94583  
Tel (925) 842-9876  
Fax (925) 842-8370  
satyasinha@chevron.com

September 4, 2007

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

RE: Chevron Service Station #9-3600

Address 2200 Telegraph Avenue, Oakland, California

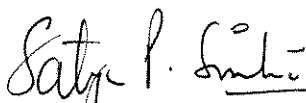
I have reviewed the attached routine groundwater monitoring report dated September 4, 2007.

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,

  
Satya P. Sinha

Attachment: Report

# WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-3600  
 Site Address: 2200 Telegraph Avenue  
 City: Oakland, CA

Job # 386895  
 Event Date: 7-27-07  
 Sampler: SIT

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-2	OK									Pemco/12"1/2	✓
MW-3	OK									Pemco/12"1/2	✓
MW-1	OK			25	OK					Pemco/12"1/2	✓

Comments \_\_\_\_\_  
 \_\_\_\_\_  
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# GETTLER-RYAN INC.

August 30, 2007  
G-R Job #386895

Mr. Satya Sinha  
Chevron Environmental Management Company  
P.O. Box 6012, Room K2256  
San Ramon, CA 94583

**RE: Third Quarter Event of July 27, 2007**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

Dear Mr. Sinha:

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

Douglas J. Lee  
Senior Geologist, P.G. No. 6882

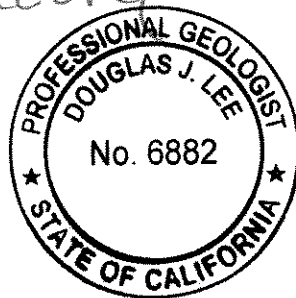
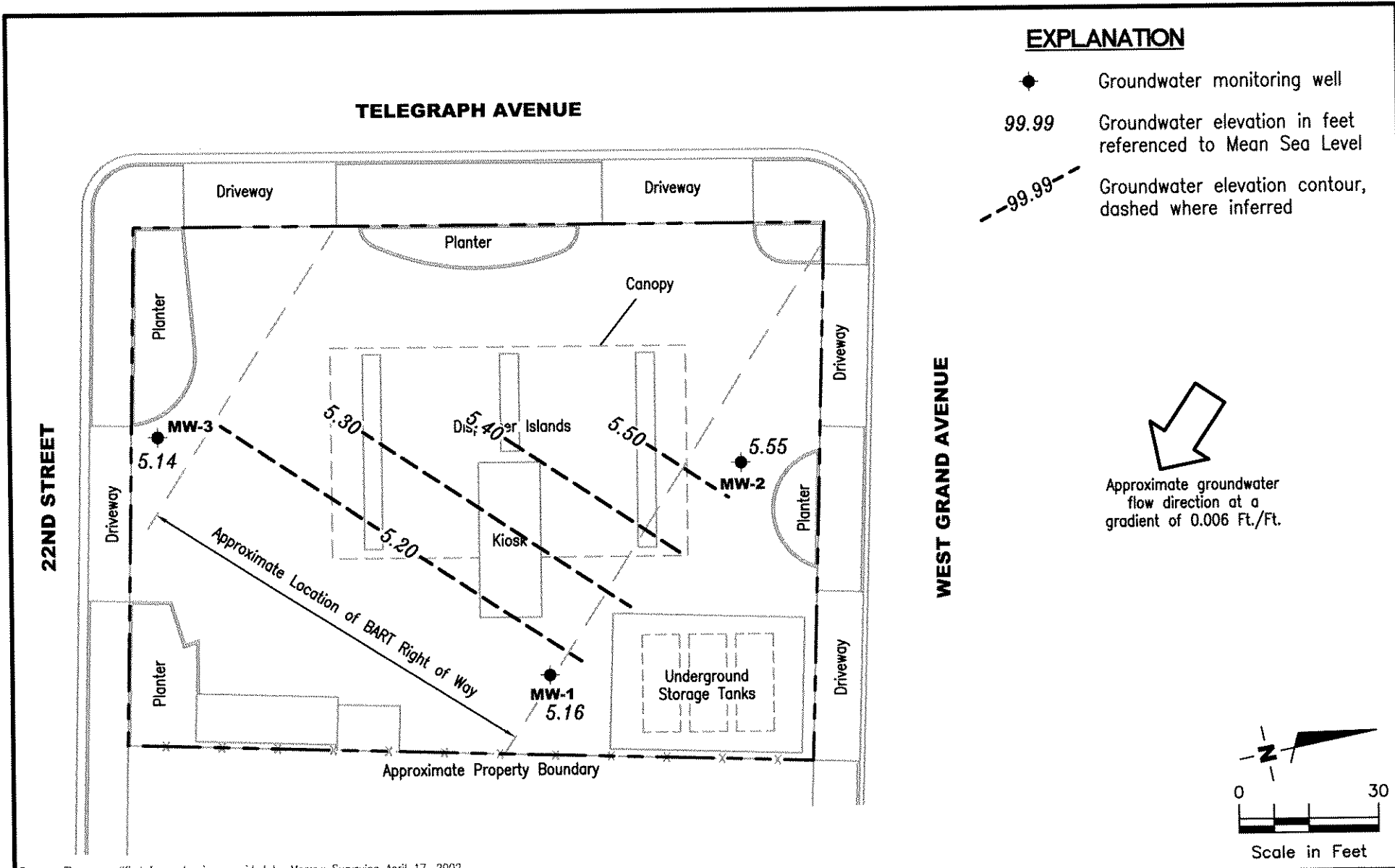


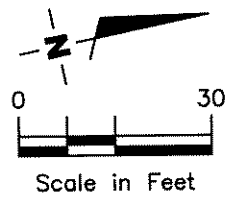
Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



**EXPLANATION**

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- 99.99--- Groundwater elevation contour, dashed where inferred

Approximate groundwater flow direction at a gradient of 0.006 Ft./Ft.



Source: Figure modified from drawing provided by Morrow Surveying April 17, 2002

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

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-3600  
 2200 Telegraph Avenue  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER 386895	REVIEWED BY	DATE July 27, 2007	REVISED DATE
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**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

<b>WELL ID/ DATE</b>	<b>TOC* (ft.)</b>	<b>DTW (ft.)</b>	<b>GWE (ft.)</b>	<b>TPH-G (ppb)</b>	<b>B (ppb)</b>	<b>T (ppb)</b>	<b>E (ppb)</b>	<b>X (ppb)</b>	<b>MTBE (ppb)</b>
<b>MW-1</b>									
04/05/02 <sup>1</sup>	17.07	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370 <sup>2</sup>
07/01/02	17.07	12.01	5.06	2,000	8.9	<1.0	97	31	370/420 <sup>2</sup>
10/08/02	17.07	12.20	4.87	1,400	9.2	<10	75	20	440/360 <sup>2</sup>
01/11/03	17.07	11.13	5.94	1,600	7.1	0.51	53	13	280/270 <sup>2</sup>
04/01/03	17.07	11.53	5.54	1,800	5.2	0.6	25	9.1	210/210 <sup>2</sup>
07/01/03 <sup>3</sup>	17.07	11.95	5.12	2,000	4	<0.5	31	12	170
10/02/03 <sup>3</sup>	17.07	12.25	4.82	480	<5	<5	<5	<5	9,800
01/05/04 <sup>3</sup>	17.07	11.05	6.02	1,700	3	<0.5	27	4	140
04/05/04 <sup>3</sup>	17.07	11.63	5.44	1,500	2	<0.5	21	0.6	120
07/01/04 <sup>3</sup>	17.07	12.08	4.99	1,500	1	<0.5	3	<0.5	130
10/05/04 <sup>3</sup>	17.07	12.21	4.86	1,400	<0.5	<0.5	1	0.5	130
01/04/05 <sup>3</sup>	17.07	11.15	5.92	1,500	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	17.07	11.20	5.87	2,100	<0.5	<0.5	4	0.5	61
07/08/05 <sup>3</sup>	17.07	11.38	5.69	1,800	<0.5	<0.5	0.8	<0.5	71
10/27/05 <sup>3</sup>	17.07	12.24	4.83	800	<0.5	<0.5	<0.5	<0.5	76
01/12/06 <sup>3</sup>	17.07	11.10	5.97	1,600	<0.5	<0.5	4	<0.5	47
04/13/06 <sup>3</sup>	17.07	10.81	6.26	1,500	<0.5	<0.5	1	<0.5	36
07/13/06 <sup>3</sup>	17.07	11.18	5.89	990	<0.5	<0.5	<0.5	<0.5	44
10/16/06 <sup>3</sup>	17.07	12.18	4.89	780	<0.5	<0.5	<0.5	<0.5	59
01/20/07 <sup>3</sup>	17.07	11.91	5.16	890	<0.5	<0.5	<0.5	<0.5	47
04/11/07 <sup>3</sup>	17.07	11.87	5.20	1,900	<0.5	<0.5	4	<0.5	39
<b>07/27/07<sup>3</sup></b>	<b>17.07</b>	<b>11.91</b>	<b>5.16</b>	<b>1,500</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>0.6</b>	<b>&lt;0.5</b>	<b>56</b>
<b>MW-2</b>									
04/05/02 <sup>1</sup>	16.82	11.17	5.65	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
07/01/02	16.82	11.36	5.46	<50	<0.50	0.57	0.52	<1.5	<2.5/<2 <sup>2</sup>
10/08/02	16.82	11.57	5.25	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
01/11/03	16.82	10.94	5.88	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
04/01/03	16.82	11.03	5.79	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>
07/01/03 <sup>3</sup>	16.82	11.30	5.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 <sup>3</sup>	16.82	11.63	5.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	16.82	10.82	6.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	16.82	11.21	5.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-2 (cont)</b>									
07/01/04 <sup>3</sup>	16.82	11.46	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 <sup>3</sup>	16.82	11.57	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	16.82	10.87	5.95	<50	0.5	<0.5	8	0.9	87
04/14/05 <sup>3</sup>	16.82	10.72	6.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	16.82	11.16	5.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	16.82	11.59	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	16.82	10.37	6.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	16.82	11.48	5.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	16.82	11.20	5.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>07/27/07<sup>3</sup></b>	<b>16.82</b>	<b>11.27</b>	<b>5.55</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
<b>MW-3</b>									
04/05/02 <sup>1</sup>	16.52	11.29	5.23	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2 <sup>2</sup>
07/01/02	16.52	11.55	4.97	<50	<0.50	0.60	<0.50	<1.5	<2.5/<2 <sup>2</sup>
10/08/02	16.52	11.62	4.90	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
01/11/03	16.52	11.09	5.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
04/01/03	16.52	11.25	5.27	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>
07/01/03 <sup>3</sup>	16.52	11.42	5.10	<50	<0.5	<0.5	<0.5	<0.5	2
10/02/03 <sup>3</sup>	16.52	11.74	4.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	16.52	11.06	5.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	16.52	11.40	5.12	<50	<0.5	<0.5	<0.5	<0.5	0.6
07/01/04 <sup>3</sup>	16.52	11.58	4.94	<50	<0.5	<0.5	<0.5	<0.5	0.8
10/05/04 <sup>3</sup>	16.52	11.60	4.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	16.52	10.95	5.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	16.52	11.10	5.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	16.52	11.29	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	16.52	11.68	4.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	16.52	10.83	5.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	16.52	10.65	5.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	16.52	11.03	5.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-3 (cont)</b>									
10/16/06 <sup>3</sup>	16.52	11.46	5.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	16.52	11.39	5.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	16.52	11.27	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	<b>16.52</b>	<b>11.38</b>	<b>5.14</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
<b>TRIP BLANK</b>									
<b>QA</b>									
04/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/01/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/08/02	--	--	--	<100	<2.0	<2.0	<2.0	<5.0	<10
01/11/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/01/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/01/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/01/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	--	--	--	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

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**EXPLANATIONS:**

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

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 April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

<sup>1</sup> Well development performed.

<sup>2</sup> MTBE by EPA Method 8260.

<sup>3</sup> BTEX and MTBE by EPA Method 8260.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	04/05/02	--	200	370	<2	<2	10
	07/01/02	--	190	420	<2	<2	9
	10/08/02	--	110	360	<2	<2	8
	01/11/03	--	<100	270	<2	<2	7
	04/01/03	--	22	210	<0.5	<0.5	5
	07/01/03	<50	26	170	<0.5	<0.5	5
	10/02/03	<500	2,600	9,800	<5	<5	6
	01/05/04	<50	21	140	<0.5	<0.5	3
	04/05/04	<50	17	120	<0.5	<0.5	3
	07/01/04	<50	13	130	<0.5	<0.5	2
	10/05/04	<50	14	130	<0.5	<0.5	2
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/14/05	<50	15	61	<0.5	<0.5	1
	07/08/05	<50	15	71	<0.5	<0.5	1
	10/27/05	<50	10	76	<0.5	<0.5	1
	01/12/06	<50	12	47	<0.5	<0.5	<0.5
	04/13/06	<50	8	36	<0.5	<0.5	0.6
	07/13/06	<50	7	44	<0.5	<0.5	0.7
	10/16/06	<50	6	59	<0.5	<0.5	1
	01/20/07	<50	8	47	<0.5	<0.5	0.8
04/11/07	<50	9	39	<0.5	<0.5	0.7	
07/27/07	<50	8	56	<0.5	<0.5	0.8	
MW-2	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-2 (cont)	01/04/05	<50	14	87	<0.5	<0.5	2
	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	<b>07/25/07</b>	<b>&lt;50</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
MW-3	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	--	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	2	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/05/04	<50	<5	0.6	<0.5	<0.5	<0.5
	07/01/04	<50	<5	0.8	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5	

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Chevron Service Station #9-3600  
 2200 Telegraph Avenue  
 Oakland, California

<b>WELL ID</b>	<b>DATE</b>	<b>ETHANOL</b> <i>(ppb)</i>	<b>TBA</b> <i>(ppb)</i>	<b>MTBE</b> <i>(ppb)</i>	<b>DIPE</b> <i>(ppb)</i>	<b>ETBE</b> <i>(ppb)</i>	<b>TAME</b> <i>(ppb)</i>
MW-3 (cont)	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/27/07	<50	<2	<0.5	<0.5	<0.5	<0.5

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

---

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
(ppb) = Parts per billion  
-- = Not Analyzed

**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 Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hill, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-3600  
 Site Address: 2200 Telegraph Avenue  
 City: Oakland, CA

Job Number: 386895  
 Event Date: 7-27-07 (inclusive)  
 Sampler: SH

Well ID: MW-1 Date Monitored: 7-27-07 Well Condition: see WCSS  
 Well Diameter: 2 in.  
 Total Depth: 20.21 ft.  
 Depth to Water: 11.91 ft.  
8.30 xVF .17 = 1.41 x3 case volume = Estimated Purge Volume: 4.5 gal.

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

**Purge Equipment:**  
 Disposable Bailer 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: \_\_\_\_\_ 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): 1728 Weather Conditions: Clear  
 Sample Time/Date: 1755 7-27-07 Water Color: Cloudy Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: Light  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1731</u>	<u>1.5</u>	<u>7.42</u>	<u>622</u>	<u>21.2</u>	_____	_____
<u>1736</u>	<u>3.0</u>	<u>7.38</u>	<u>631</u>	<u>20.8</u>	_____	_____
<u>1741</u>	<u>4.5</u>	<u>7.31</u>	<u>645</u>	<u>20.9</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>2</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS + ETHANOL(8260)</u>

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-3600 Job Number: 386895  
 Site Address: 2200 Telegraph Avenue Event Date: 7-27-07 (inclusive)  
 City: Oakland, CA Sampler: SH

Well ID: MW-2 Date Monitored: 7-27-07 Well Condition: see WCSS  
 Well Diameter: 2 in.  
 Total Depth: 20.20 ft.  
 Depth to Water: 11.27 ft.  
8.93 xVF .17 = 1.32 x3 case volume = Estimated Purge Volume: 4 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 4  
 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: \_\_\_\_\_ 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): 1606 Weather Conditions: Clear  
 Sample Time/Date: 1630 17-27-07 Water Color: Clear Odor: NO  
 Purging Flow Rate: - gpm. Sediment Description: WWT  
 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>1614</u>	<u>1.5</u>	<u>7.44</u>	<u>924</u>	<u>21.5</u>	_____	_____
<u>1615</u>	<u>3.0</u>	<u>7.31</u>	<u>936</u>	<u>21.1</u>	_____	_____
<u>1620</u>	<u>4.5</u>	<u>7.27</u>	<u>942</u>	<u>20.8</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTX+MTBE(8260)/ 5 OXYS + ETHANOL(8260)

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

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





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #9-3600 Job Number: 386895  
 Site Address: 2200 Telegraph Avenue Event Date: 7-27-07 (inclusive)  
 City: Oakland, CA Sampler: SH

Well ID: MW-3 Date Monitored: 7-27-07 Well Condition: see well log  
 Well Diameter: 2 in.  
 Total Depth: 20.13 ft.  
 Depth to Water: 11.38 ft.  
 $8.75 \times VF .17 = 1.49 \times 3 \text{ case volume} = \text{Estimated Purge Volume: } 4.5 \text{ gal.}$

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: \_\_\_\_\_ 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): 1647 Weather Conditions: Clear  
 Sample Time/Date: 1710 7-27-07 Water Color: Clear Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: light  
 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>1651</u>	<u>1.5</u>	<u>8.34</u>	<u>682</u>	<u>21.3</u>		
<u>1656</u>	<u>3.0</u>	<u>8.17</u>	<u>703</u>	<u>21.1</u>		
<u>1700</u>	<u>4.5</u>	<u>8.06</u>	<u>712</u>	<u>21.0</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x 50ml vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS + ETHANOL(8260)

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

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

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 5115905-08 Group #: 002403

073007-04

1049211

Facility #: SS#9-3600-OML GR#386895 Global ID#T0600161613  
 Site Address: 2200 TELEGRAPH AVENUE, OAKLAND, CA  
 Chevron PM: SS Lead Consultant: CRACE  
 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: SH

		Matrix		Analyses Requested																		
				Preservation Codes																		
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers													
									BTEX + MTBE	8260	8021	TPH 8015 MOD GFO	TPH 8015 MOD DFO	Silica Gel Cleanup	8260 full scan	Oxygenates (8260)	Total Lead Method	Disolved Lead Method	ETHANOL (8260)			
<u>QA</u>	<u>7-27-07</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<u>MW1</u>	<u>↓</u>	<u>1755</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<u>MW2</u>	<u>↓</u>	<u>1630</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<u>MW3</u>	<u>↓</u>	<u>1710</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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

**Comments / Remarks**

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

Relinquished by: <u>[Signature]</u>	Date: <u>7-27-07</u>	Time: <u>1915</u>	Received by: <u>[Signature]</u>	Date: <u>7/30/07</u>	Time: <u>0820</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/30/07</u>	Time: <u>1135</u>	Received by: <u>[Signature]</u>	Date: <u>7/30/07</u>	Time: <u>1700</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/30/07</u>	Time: <u>1710</u>	Received by: <u>[Signature]</u>	Date: <u>7/30/07</u>	Time: <u>1710</u>
Relinquished by Commercial Carrier: <u>DHL</u>	UPS	FedEx	Other	Received by: <u>Kathy Binkley</u>	Date: <u>7-31-07</u>
Temperature Upon Receipt: <u>1.3° - 4.1°</u> C°	Custody Seals Intact? <u>(Yes) No</u>				

## ANALYTICAL RESULTS

Prepared for:

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

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

RECEIVED

AUG 1 3 2007

GETTLER-RYAN INC.  
GENERAL CONTRACTORSSAMPLE GROUP

The sample group for this submittal is 1049211. Samples arrived at the laboratory on Tuesday, July 31, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
QA-T-070727	NA	Water	5115905
MW-1-W-070727	Grab	Water	5115906
MW-2-W-070727	Grab	Water	5115907
MW-3-W-070727	Grab	Water	5115908

ELECTRONIC COPY TO CRA c/o Gettler-Ryan

Attn: Cheryl Hansen



## **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-856-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Questions? Contact your Client Services Representative  
Angela M Miller at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Maria S. Lord".

**Maria S. Lord**  
**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

Lancaster Laboratories Sample No. WW 5115905

QA-T-070727 NA Water  
Facility# 93600 Job# 386895 GRD  
2200 Telegraph-Oakland T0600161613 QA  
Collected: 07/27/2007

Account Number: 10904

Submitted: 07/31/2007 09:30  
Reported: 08/10/2007 at 14:13  
Discard: 09/10/2007

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

TOAKQ

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	SW-846 8015B modified	1	08/01/2007 15:07	Martha L Seidel	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	08/07/2007 13:00	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/01/2007 15:07	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/07/2007 13:00	Anita M Dale	1



# 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 5115906

MW-1-W-070727 Grab Water  
Facility# 93600 Job# 386895 GRD  
2200 Telegraph-Oakland T0600161613 MW-1  
Collected: 07/27/2007 17:55 by SH

Account Number: 10904

Submitted: 07/31/2007 09:30  
Reported: 08/10/2007 at 14:13  
Discard: 09/10/2007

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

TOAK1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	1,500.		50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
06059	BTEX+5 Oxygenates+ETOH						
01587	Ethanol	64-17-5	N.D.		50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	56.		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	0.8		0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	8.		2.	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	0.6		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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01728	TPH-GRO - Waters	SW-846 8015B modified	1	08/01/2007 17:44		Martha L Seidel	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	08/06/2007 19:34		Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/01/2007 17:44		Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/06/2007 19:34		Michael A Ziegler	1



# 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 5115907

MW-2-W-070727 Grab Water  
 Facility# 93600 Job# 386895 GRD  
 2200 Telegraph-Oakland T0600161613 MW-2  
 Collected: 07/27/2007 16:30 by SH

Account Number: 10904

Submitted: 07/31/2007 09:30  
 Reported: 08/10/2007 at 14:13  
 Discard: 09/10/2007

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

TOAK2

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.						
06059	BTEX+5 Oxygenates+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.	2.	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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	08/01/2007 18:06	Martha L Seidel	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	08/04/2007 17:15	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/01/2007 18:06	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/04/2007 17:15	Anita M Dale	1



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 5115908

MW-3-W-070727 Grab Water  
Facility# 93600 Job# 386895 GRD  
2200 Telegraph-Oakland T0600161613 MW-3  
Collected: 07/27/2007 17:10 by SH

Account Number: 10904

Submitted: 07/31/2007 09:30  
Reported: 08/10/2007 at 14:13  
Discard: 09/10/2007

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

TOAK3

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.						
06059	BTEX+5 Oxygenates+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.	2.	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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	08/01/2007 19:36	Martha L Seidel	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	08/04/2007 17:38	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/01/2007 19:36	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/04/2007 17:38	Anita M Dale	1



## Quality Control Summary

 Client Name: Chevron  
 Reported: 08/10/07 at 02:13 PM

Group Number: 1049211

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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 07213A53A TPH-GRO - Waters	N.D.	50.	ug/l	116	127	75-135	9	30
Batch number: D072183AA	Sample number(s): 5115906							
Ethanol	N.D.	50.	ug/l	103		39-161		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	87		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	89		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	90		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	94		69-127		
Benzene	N.D.	0.5	ug/l	93		78-119		
Toluene	N.D.	0.5	ug/l	99		85-115		
Ethylbenzene	N.D.	0.5	ug/l	96		82-119		
Xylene (Total)	N.D.	0.5	ug/l	101		83-113		
Batch number: Z072162AA	Sample number(s): 5115907-5115908							
Ethanol	N.D.	50.	ug/l			39-161		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	115		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	101		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	109		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	114*		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	103		69-127		
Benzene	N.D.	0.5	ug/l	103		78-119		
Toluene	N.D.	0.5	ug/l	105		85-115		
Ethylbenzene	N.D.	0.5	ug/l	104		82-119		
Xylene (Total)	N.D.	0.5	ug/l	107		83-113		
Batch number: Z072192AA	Sample number(s): 5115905							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	109		73-119		
Benzene	N.D.	0.5	ug/l	100		78-119		
Toluene	N.D.	0.5	ug/l	104		85-115		
Ethylbenzene	N.D.	0.5	ug/l	102		82-119		
Xylene (Total)	N.D.	0.5	ug/l	104		83-113		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 07213A53A TPH-GRO - Waters	136		63-154						
Batch number: D072183AA	Sample number(s): 5115905-5115908 UNSPK: P115900								
	Sample number(s): 5115906 UNSPK: P115901								

\*- 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: Chevron  
 Reported: 08/10/07 at 02:13 PM

Group Number: 1049211

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethanol	91	110	41-159	19	30				
Methyl Tertiary Butyl Ether	(2)	(2)	69-127	2	30				
di-Isopropyl ether	93	90	68-129	3	30				
Ethyl t-butyl ether	92	92	78-119	0	30				
t-Amyl methyl ether	94	91	72-125	2	30				
t-Butyl alcohol	91	94	64-130	3	30				
Benzene	96	96	83-128	1	30				
Toluene	106	103	83-127	3	30				
Ethylbenzene	102	102	82-129	0	30				
Xylene (Total)	106	104	82-130	2	30				

Batch number: Z072162AA	Sample number(s): 5115907-5115908 UNSPK: P115913				
Ethanol	72	90	41-159	23	30
Methyl Tertiary Butyl Ether	109	117	69-127	6	30
di-Isopropyl ether	96	107	68-129	10	30
Ethyl t-butyl ether	102	111	78-119	8	30
t-Amyl methyl ether	108	117	72-125	8	30
t-Butyl alcohol	94	105	64-130	11	30
Benzene	102	112	83-128	10	30
Toluene	101	114	83-127	13	30
Ethylbenzene	99	111	82-129	12	30
Xylene (Total)	100	112	82-130	11	30

Batch number: Z072192AA	Sample number(s): 5115905 UNSPK: P116939				
Methyl Tertiary Butyl Ether	114	113	69-127	1	30
Benzene	108	108	83-128	0	30
Toluene	112	112	83-127	0	30
Ethylbenzene	111	109	82-129	1	30
Xylene (Total)	111	110	82-130	1	30

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: TPH-GRO - Waters  
 Batch number: 07213A53A  
 Trifluorotoluene-F

5115905	84
5115906	101
5115907	86
5115908	85
Blank	85
LCS	87
LCSD	90
MS	91

Limits: 63-135

\*- 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: Chevron  
 Reported: 08/10/07 at 02:13 PM

Group Number: 1049211

### Surrogate Quality Control

 Analysis Name: BTEX+5 Oxygenates+ETOH  
 Batch number: D072183AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5115906	98	90	102	101
Blank	107	94	101	92
LCS	105	93	101	107
MS	102	97	103	107
MSD	97	89	100	100
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: BTEX+5 Oxygenates+ETOH  
 Batch number: Z072162AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5115907	103	102	101	99
5115908	104	103	100	99
Blank	103	100	98	98
LCS	103	105	102	103
MS	104	104	98	100
MSD	103	105	101	103
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: Z072192AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5115905	104	104	99	96
Blank	103	103	100	98
LCS	103	106	101	100
MS	103	104	101	100
MSD	104	106	102	101
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.

## Lancaster Laboratories 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>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<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>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.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<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.

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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