

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

May 22, 2003

**ChevronTexaco**

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

Alameda County

MAY 28 2003

Environmental Health

Re: Chevron Service Station # 9-3600

Address: 2200 Telegraph Avenue, Oakland, CA

May 12, 2003

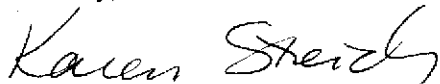
I have reviewed the attached routine groundwater monitoring report dated \_\_\_\_\_.

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

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

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

Sincerely,



Karen Streich  
Project Manager

Enclosure: Report



# GETTLER-RYAN INC.

## TRANSMITTAL

May 12, 2003

G-R #386895

TO: Mr. Robert Foss  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

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

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 7, 2003	Groundwater Monitoring and Sampling Report Second Quarter - Event of April 1, 2003

### COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **May 23, 2003**, at which time the final report will be distributed to the following:

cc: Mr. Don Hwang, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway,  
Suite 250, Alameda, CA 94502-6577  
Mr. Yichin Hwang (Property Owner) 2200 Telegraph Avenue, Oakland, CA 94612

Enclosures

trans/9-3600-ks

6747 Sierra Court, Suite J • Dublin, California 94568 • (925) 551-7555



# GETTLER-RYAN INC.

May 7, 2003  
G-R Job #386895

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

**RE: Second Quarter Event of April 1, 2003**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

Alameda County  
MAY 28 2003  
Environmental Health

Dear Ms. Streich:

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

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

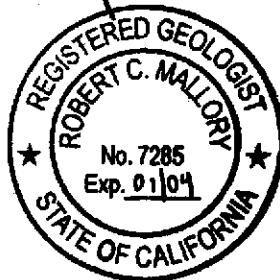
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

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

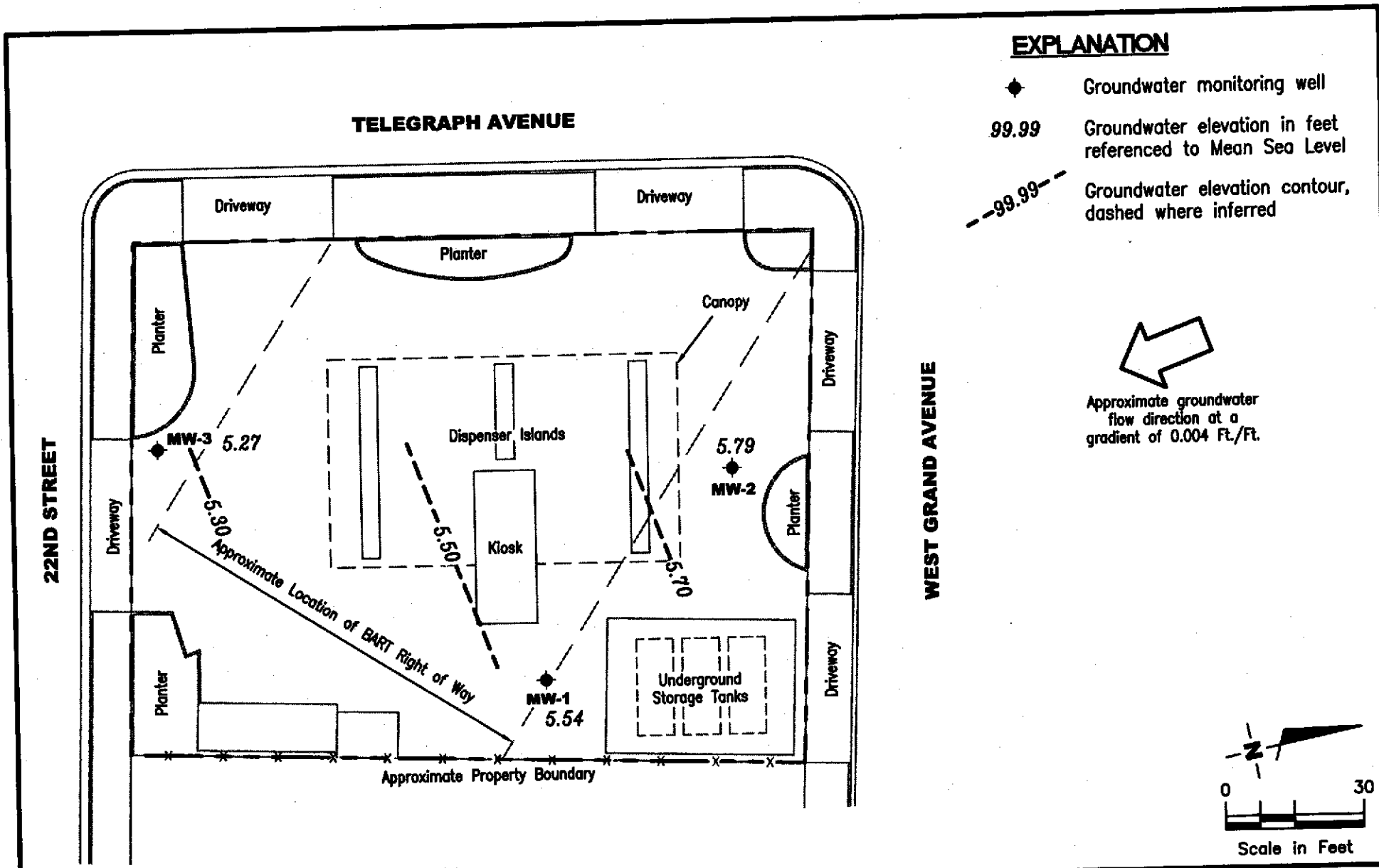
Sincerely,

Deanna L. Harding  
Project Coordinator

Robert C. Mallory  
Registered Geologist, No. 7285



- 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



**GETTLER - RYAN INC.**  
 6747 Sierra Ct., 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  
 April 1, 2003

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-3600\003-9-3600.DWG | Layout Tab: Pot2

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>									
17.07	04/05/02 <sup>1</sup>	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370 <sup>2</sup>
	07/01/02	12.01	5.06	2,000	8.9	<1.0	97	31	370/420 <sup>2</sup>
	10/08/02	12.20	4.87	1,400	9.2	<10	75	20	440/360 <sup>2</sup>
	01/11/03	11.13	5.94	1,600	7.1	0.51	53	13	280/270 <sup>2</sup>
	04/01/03	11.53	5.54	1,800	5.2	0.6	25	9.1	210/210 <sup>2</sup>
<b>MW-2</b>									
16.82	04/05/02 <sup>1</sup>	11.17	5.65	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
	07/01/02	11.36	5.46	<50	<0.50	0.57	0.52	<1.5	<2.5/<2 <sup>2</sup>
	10/08/02	11.57	5.25	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
	01/11/03	10.94	5.88	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
	04/01/03	11.03	5.79	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>
<b>MW-3</b>									
16.52	04/05/02 <sup>1</sup>	11.29	5.23	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2 <sup>2</sup>
	07/01/02	11.55	4.97	<50	<0.50	0.60	<0.50	<1.5	<2.5/<2 <sup>2</sup>
	10/08/02	11.62	4.90	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
	01/11/03	11.09	5.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
	04/01/03	11.25	5.27	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>
<b>TRIP BLANK</b>									
QA	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

**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.

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

WELL ID	DATE	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
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	<5	<0.5	<0.5	<0.5	<0.5
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

**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

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





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 380695  
 Site Address: 2200 Telegraph Avenue Event Date: 4-1-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-1  
 Well Diameter: 2 in.  
 Total Depth: 20.26 ft.  
 Depth to Water: 11.53 ft.  
8.73

Date Monitored: 4-1-03 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 = 1.48 x3 (case volume) = Estimated Purge Volume: 4.45 gal.

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

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

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1136 Weather Conditions: overcast  
 Sample Time/Date: 1205 14-1-03 Water Color: Clear Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1139</u>	<u>1.5</u>	<u>7.04</u>	<u>822</u>	<u>18.4</u>	_____	_____
<u>1143</u>	<u>3.0</u>	<u>6.76</u>	<u>802</u>	<u>17.4</u>	_____	_____
<u>1146</u>	<u>4.5</u>	<u>6.44</u>	<u>767</u>	<u>18.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>1</u> x voc vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)/5 OXYS(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 386895  
 Site Address: 2200 Telegraph Avenue Event Date: 4-1-03 (inclusive)  
 City: Oakland, CA Sampler: K Kelly

Well ID: MW-2 Date Monitored: 4-1-03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 20.23 ft.

Depth to Water: 11.03 ft.

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

9.20 x VF 0.17 = 1.56 x3 (case volume) = Estimated Purge Volume: 4.69 gal.

### Purge Equipment:

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

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1052 Weather Conditions: overcast  
 Sample Time/Date: 1110 4-1-03 Water Color: cloudy Odor: No  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1055</u>	<u>1.5</u>	<u>6.93</u>	<u>1100</u>	<u>15.5</u>		
<u>1058</u>	<u>3.0</u>	<u>6.94</u>	<u>1175</u>	<u>14.1</u>		
<u>1101</u>	<u>4.75</u>	<u>6.95</u>	<u>1161</u>	<u>16.8</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)/BTX+MTBE(8021)/5 OXYS(8260)</u>

### COMMENTS:

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 386895  
 Event Date: 4-1-03 (inclusive)  
 Sampler: K. Kelly

Well ID: MW-3 Date Monitored: 4-1-03 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 20.19 ft.  
 Depth to Water: 11.25 ft.  
8.94 xVF 0.17 = 1.51 x3 (case volume) = Estimated Purge Volume: 4.55 gal.

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

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

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

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1028 Weather Conditions: overcast  
 Sample Time/Date: 1045 4-1-03 Water Color: clear Odor: No  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1033</u>	<u>1.5</u>	<u>7.30</u>	<u>649</u>	<u>16.7</u>	_____	_____
<u>1036</u>	<u>3.0</u>	<u>7.07</u>	<u>653</u>	<u>17.3</u>	_____	_____
<u>1039</u>	<u>4.5</u>	<u>7.24</u>	<u>641</u>	<u>16.3</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(8021)/5 OXYS(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: bailer removed from well, took new TUD

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

# Chevron California Region Analysis Request/Chain of Custody



040203-011

For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 4021958-61 SCR#: \_\_\_\_\_

9 21 847183

Facility #: SS#9-3600 G-R#386895 Global ID#15050  
 Site Address: 2200 TELEGRAPH AVE., OAKLAND, CA  
 Chevron PM: KS Lead Consultant: CAMBRIA  
G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568  
 Consultant/Office: Deanna L. Harding (deanna@gnnc.com)  
 Consultant Prj. Mgr.: \_\_\_\_\_  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: Kristina Kelly  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Preservation Codes									
		H	H								
Soil	Water	<input type="checkbox"/> BTEX + MTBE 8260	<input checked="" type="checkbox"/> 8021								
		<input type="checkbox"/> TPH 8015 MOD BRO									
		<input type="checkbox"/> TPH 8015 MOD DRO									
		<input type="checkbox"/> 8260 full scan									
Oil	Air	<input type="checkbox"/> Silica Gel Cleanup									
		<input checked="" type="checkbox"/> Oxygenated (8260)									
Total Number of Containers											

**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	Matrix			Total Number of Containers	Preservation Codes										Comments / Remarks		
					Soil	Water	Oil		H	H											
QA	4-1-03	1205						2	X	X											
MW-1		1045	X					6	X	X											
MW-2		1110	X					6	X	X											
MW-3		1045	X					6	X	X											

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

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

Relinquished by: <u>Kristina Kelly</u>	Date: <u>4/1/03</u>	Time: _____	Received by: <u>[Signature]</u>	Date: <u>4/2/03</u>	Time: <u>1430</u>
Relinquished by: <u>[Signature]</u>	Date: <u>4/2/03</u>	Time: <u>1430</u>	Received by: <u>Bernard Araya</u>	Date: <u>4/2/03</u>	Time: <u>1440</u>
Relinquished by: <u>Bernard Araya</u>	Date: <u>4/2/03</u>	Time: <u>1530</u>	Received by: <u>Airborne</u>	Date: <u>4/2/03</u>	Time: _____
Relinquished by Commercial Carrier: <u>Airborne</u>	UPS    FedEx    Other	Temperature Upon Receipt: <u>3.0 C</u>	Received by: <u>[Signature]</u>	Date: <u>4/3/03</u>	Time: <u>0925</u>
Custody Seals Intact? <u>(Yes)</u> No					

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583  
925-842-8582

Prepared by:

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

## SAMPLE GROUP

The sample group for this submittal is 847183. Samples arrived at the laboratory on Thursday, April 03, 2003. The PO# for this group is 99011184 and the release number is STREICH.

### Client Description

QA-T-030401	NA	Water
MW-1-W-030401	Grab	Water
MW-2-W-030401	Grab	Water
MW-3-W-030401	Grab	Water

### Lancaster Labs Number

4021958
4021959
4021960
4021961

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

Attn: Cheryl Hansen

Attn: Deanna L. Harding

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

Respectfully Submitted,



Victoria M. Martel  
Chemist

Lancaster Laboratories Sample No. **WW 4021959**

Collected: 04/01/2003 00:00

Account Number: 10904

Submitted: 04/03/2003 09:25

Reported: 04/11/2003 at 09:11

Discard: 05/12/2003

QA-T-030401

NA

Water

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 93600 Job# 386895

2200 Telegraph Ave

15050

QA

GRD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01729	TPH-GRO - Waters	N. CA LUFT Gasoline	1	04/07/2003 22:24	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	04/07/2003 22:24	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/07/2003 22:24	Melissa D Mann	n.a.

**Lancaster Laboratories Sample No. WW 4021959**

Collected: 04/01/2003 12:05 by KK

Account Number: 10904

Submitted: 04/03/2003 09:25

ChevronTexaco

Reported: 04/11/2003 at 09:11

6001 Bollinger Canyon Rd L4310

Discard: 05/12/2003

MW-1-W-030401

Grab

Water

San Ramon CA 94583

Facility# 93600

Job# 386895

GRD

2200 Telegraph Ave

15050

MW-1

TELM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	1,800.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	5.2	0.5	ug/l	1
02164	Toluene	108-88-3	0.6	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	25.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	9.1	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	210.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	210.	5.	ug/l	10
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	5.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	22.	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
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/07/2003 15:53	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	04/07/2003 15:53	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/10/2003 19:31	John B Kiser	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/10/2003 20:02	John B Kiser	10
01146	GC VOA Water Prep	SW-846 5030B	1	04/07/2003 15:53	Melissa D Mann	n.a.



Lancaster Laboratories Sample No. **WW 4021959**

Collected: 04/01/2003 12:05 by KK

Account Number: 10904

Submitted: 04/03/2003 09:25

Reported: 04/11/2003 at 09:11

Discard: 05/12/2003

MW-1-W-030401

Grab

Water

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 93600

Job# 386895

GRD

2200 Telegraph Ave

15050

MW-1

TELM1

01163

GC/MS VOA Water Prep

SW-846 5030B

1

04/10/2003 19:31

John B Kiser

n.a.

**Lancaster Laboratories Sample No. WW 4021960**

Collected: 04/01/2003 11:10 by KK

Account Number: 10904

Submitted: 04/03/2003 09:25

ChevronTexaco

Reported: 04/11/2003 at 09:11

6001 Bollinger Canyon Rd L4310

Discard: 05/12/2003

MW-2-W-030401

Grab

Water

San Ramon CA 94583

Facility# 93600

Job# 386895

GRD

2200 Telegraph Ave

15050

MW-2

TELM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
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

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/07/2003 16:25		Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	04/07/2003 16:25		Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/10/2003 20:33		John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/07/2003 16:25		Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2003 20:33		John B Kiser	n.a.

Lancaster Laboratories Sample No. **WW 4021961**

 Collected: 04/01/2003 10:45 by **KK**

Account Number: 10904

Submitted: 04/03/2003 09:25

Reported: 04/11/2003 at 09:12

Discard: 05/12/2003

MW-3-W-030401

Facility# 93600

2200 Telegraph Ave

Job# 386895

15050

Water

MW-3

GRD

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

TELM3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
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

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/07/2003 16:58	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	04/07/2003 16:58	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/10/2003 21:04	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/07/2003 16:58	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2003 21:04	John B Kiser	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 04/11/03 at 09:12 AM

Group Number: 847183

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 03094A55A      Sample number(s): 4021958-4021961								
TPH-GRO - Waters	N.D.	50.	ug/l	105	105	70-130	1	30
Benzene	N.D.	.5	ug/l	96	99	80-118	2	30
Toluene	N.D.	.5	ug/l	103	102	82-119	0	30
Ethylbenzene	N.D.	.5	ug/l	103	103	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	104	104	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	108	108	79-127	0	30
Batch number: P031001AA      Sample number(s): 4021959-4021961								
Methyl Tertiary Butyl Ether	N.D.	.5	ug/l	92		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	104		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	97		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	92		79-113		
t-Butyl alcohol	N.D.	.5	ug/l	103		53-147		

### Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup
	%REC	%REC	Limits	RPD	MAX	Conc	RPD	RPD Max
Batch number: 03094A55A      Sample number(s): 4021958-4021961								
TPH-GRO - Waters	102		70-130					
Benzene	105		67-136					
Toluene	109		78-129					
Ethylbenzene	110		75-133					
Total Xylenes	110		86-132					
Methyl tert-Butyl Ether	109		66-136					
Batch number: P031001AA      Sample number(s): 4021959-4021961								
Methyl Tertiary Butyl Ether	95	94	69-134	1	30			
di-Isopropyl ether	107	109	75-130	1	30			
Ethyl t-butyl ether	98	100	73-123	2	30			
t-Amyl methyl ether	94	94	77-117	1	30			
t-Butyl alcohol	107	109	39-155	2	30			

### Surrogate Quality Control

Analysis Name: BTEX, MTBE

Batch number: 03094A55A

	Trifluorotoluene-F	Trifluorotoluene-P
4021958	98	115
4021959	122	121
4021960	93	111
4021961	95	113
Blank	99	114
LCS	102	112
LCSD	101	114
MS	101	114

\*- 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  
Reported: 04/11/03 at 09:12 AM

Group Number: 847183

### Surrogate Quality Control

Limits:		57-146	66-136		
Analysis Name: Oxygenates by 8260B					
Batch number: P031001AA					
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
4021959	98	97	87	93	
4021960	99	99	94	86	
4021961	98	98	94	86	
Blank	99	97	89	87	
LCS	97	102	90	87	
MS	99	99	87	88	
MSD	98	98	86	87	
Limits:		81-120	82-112	85-112	83-113

\*- Outside of specification

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

# Explanation of Symbols and Abbreviations

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

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

## U.S. EPA CLP Data Qualifiers:

### Organic Qualifiers

<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>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 ≥DL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike sample 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.

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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