



# GETTLER-RYAN INC.

ENVIRONMENTAL  
PROTECTION

96 MAY -1 PM 2:12

April 12, 1996

Job #5178.80

Ms. Tammy Hodge  
Chevron USA Products Company  
P.O. Box 5004  
San Ramon, CA 94583

Re: Former Chevron Service Station #9-0100  
2428 Central Avenue  
Alameda, CA

Dear Ms. Hodge:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On March 8, 1996, field personnel were on-site to monitor and sample three wells (MW-1 through MW-3) at the Former Chevron Service Station #9-0100 located at 2428 Central Avenue in Alameda, California.

Static groundwater levels were measured on March 8, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by GTEL Environmental Laboratories, Inc. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

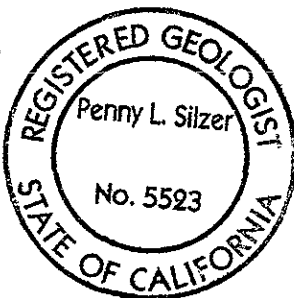
Sincerely,

*Deanna L. Harding*

Deanna L. Harding  
Project Coordinator

*Penny L. Silzer*

Penny L. Silzer  
Senior Geologist, R.G. No. 5523



DLH/PLS/dlh  
5178.QML

- Figure 1: Potentiometric Map
- Table 1: Water Level Data and Groundwater Analytical Results
- Attachments: Standard Operating Procedure - Quarterly Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

CENTRAL AVENUE

PARK AVENUE

MW-2  
23.80

$\frac{1300}{42}$

MW-1  
23.87

$\frac{5,600}{250}$

24.0

24.2

MW-3  
24.40

ND  
ND

Former Dispenser Island

Existing Hotel

Former Underground Storage Tanks

Former Station Building

Existing Office Building

Approximate Property Boundary

Residential

EXPLANATION

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



Approximate groundwater flow direction at a gradient of 0.01 ft./ft.



Scale in Feet

*PHg*  
*Bentone (ppb)*

**Gettler - Ryan Inc.**

6747 Sierra Ct., Suite J (510) 551-7555  
Dublin, CA 94568

POTENTIOMETRIC MAP

Former Chevron Service Station No. 9-0100  
2428 Central Avenue  
Alameda, California

FIGURE

1

JOB NUMBER  
5178

REVIEWED BY  
*PLS*

DATE  
March 8, 1996

REVISED DATE



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B T E X MTBE				
						←-----ppb----->				
MW-1/ 29.23	3/10/94 <sup>1,2</sup>	6.79	22.44	0	7,400	120	120	33	72	---
	6/21/94	7.74	21.49	0	5,300	140	60	21	43	---
	9/26/94	8.94	20.29	0	9,500	<250 <sup>s</sup>	<250 <sup>s</sup>	<250 <sup>s</sup>	<250 <sup>s</sup>	---
	12/16/94	6.57	22.66	0	4,700	<0.5	46	15	48	---
	3/22/95	5.16	24.07	0	8,800	55	14	11	<10	---
	6/13/95	5.84	23.39	0	2,100	130	29	9.5	15	---
	9/15/95	7.65	21.58	0	8,100	110	26	6.0	13	---
	3/8/96	5.36	23.87	0	5,600	250	<5.0	<5.0	<5.0	60
MW-2/ 29.18	3/10/94 <sup>2,3</sup>	6.94	22.24	0	6,400	<5	64	58	17	---
	6/21/94	7.89	21.29	0	1,800	23	12	6.9	32	---
	9/26/94	8.98	20.20	0	8,400	<100 <sup>s</sup>	<100 <sup>s</sup>	<100 <sup>s</sup>	<100 <sup>s</sup>	---
	12/16/94	6.65	22.53	0	2,300	<0.5	29	8.9	33	---
	3/22/95	5.15	24.03	0	1,500	0.6	4.5	<0.5	2.5	---
	6/13/95	6.06	23.12	0	880	<0.5	<0.5	2.2	10	---
	9/15/95	7.72	21.46	0	2,700	<0.5	17	4.8	13	---
	3/8/96	5.38	23.80	0	1,300	42	2.0	0.7	2.2	10
MW-3/ 30.09	3/10/94 <sup>2,4</sup>	7.30	22.79	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/21/94	8.53	21.56	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/26/94	9.80	20.29	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/94	7.11	22.98	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/95	5.54	24.55	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/13/95	6.48	23.61	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/95	8.40	21.69	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/8/96	5.69	24.40	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Trip Blank TB-LB	3/10/94	---	---	---	<50	<0.5	0.7	<0.5	<0.5	---
	6/21/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/26/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/13/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/8/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California  
(continued)

EXPLANATION:

DTW = Depth to water  
TOC = Top of casing elevation  
GWE = Groundwater elevation  
msl = Measurements referenced relative to mean sea level  
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline  
TPH(D) = Total Petroleum Hydrocarbons as Diesel  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes  
EDB = Ethylene Dibromide  
ppb = Parts per billion  
--- = Not analyzed/Not applicable

ANALYTICAL METHODS:

EPA Method 8015/5030 for TPPH(G)  
EPA Method 8020 for BTEX & MTBE

NOTES:

Water level elevation data and laboratory analytic results prior to March 22, 1995 were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

- \* Product thickness was measured on and after June 21, 1994 with a MMC Flexi-Dip interface probe.
- <sup>1</sup> TPH(D) was also analyzed and detected at 840 ppb. However, chromatogram does not match typical diesel pattern.
- <sup>2</sup> Organic lead and EDB were also analyzed but not detected at detection limits of 4 and 0.02 ppb, respectively.
- <sup>3</sup> TPH(D) was also analyzed and detected at 920 ppb. However, chromatogram does not match typical diesel pattern.
- <sup>4</sup> TPH(D) was also analyzed but not detected at detection limits of 50 ppb.
- <sup>5</sup> Detection limits raised due to the dilution required by a high amount of foaming in the sample.



## STANDARD OPERATING PROCEDURE QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan 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 a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

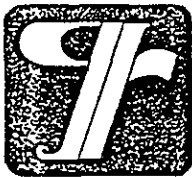
After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytic 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, preservative (if any), and the sample collector's initials. The water samples are placed in cooler maintained at 4 C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery 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 USA Products Company, the purge and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.



### WELL SAMPLING FIELD DATA SHEET

SAMPLER Guadalupe Sanchez DATE 3-8-96  
 ADDRESS 2428 Cental Ave JOB # 5178.85  
 CITY Alameda SS# 9-0100

Well ID MW-1 Well Condition OK

Well Location Description \_\_\_\_\_

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 24.7 ft

Depth to Liquid 5.36 ft

# of casing Volume 19.34 x .17 x(VF) 3.3 #Estimated 9.9 gal.

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater No If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 8:19 Purging Flow Rate 2 gpm.

Sampling Time 8:29

Time	pH	Conductivity	Temperature	Volume
<u>8:21</u>	<u>7.20</u>	<u>332</u>	<u>15.9</u>	<u>4</u> gal
<u>8:23</u>	<u>7.26</u>	<u>368</u>	<u>16.9</u>	<u>8</u>
<u>8:24</u>	<u>7.23</u>	<u>371</u>	<u>17.0</u>	<u>10</u>
<u>8:29</u>	<u>7.22</u>	<u>372</u>	<u>17.1</u>	<u>11</u>

Weather Conditions sunny

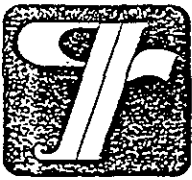
Water Color: clear Odor: mild

Sediment Description none

### LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-1</u>	<u>3X40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas BTEX w/PTBE</u>

Comments \_\_\_\_\_



WELL SAMPLING FIELD DATA SHEET

SAMPLER Guadalupe Sanchez DATE 3-8-96  
 ADDRESS 2428 Cental Ave JOB # 5178.85  
 CITY Alameda SS# 9-0100

Well ID MW-2 Well Condition OK

Well Location Description

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 23.75 ft

Depth to Liquid 5.38 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

3 # of casing Volume 18.37 x .17 x(VF) 3.1 #Estimated 9.6 gal. purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater NO If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 7:59 Purging Flow Rate 1.5 gpm.

Sampling Time 8:10

Time	pH	Conductivity	Temperature	Volume
<u>8:01</u>	<u>6.88</u>	<u>551</u>	<u>15.4</u>	<u>3</u> gal
<u>8:03</u>	<u>6.90</u>	<u>543</u>	<u>17.1</u>	<u>6</u>
<u>8:05</u>	<u>6.91</u>	<u>535</u>	<u>17.5</u>	<u>9</u>
<u>8:10</u>	<u>6.91</u>	<u>537</u>		<u>10</u>

Weather Conditions sunny

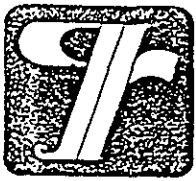
Water Color: clear Odor: mild

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-2</u>	<u>3X40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas BTEX w/PTBE</u>

Comments Well box needs to be lowered - tripping hazard



WELL SAMPLING FIELD DATA SHEET

SAMPLER Guadalupe Sanchez DATE 3-8-96  
 ADDRESS 2428 Cental Ave JOB # 5178.85  
 CITY Alameda SS# 9-0100

Well ID MW-3 Well Condition OK

Well Location Description \_\_\_\_\_

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 24.5 ft

Depth to Liquid 5.69 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

# of casing Volume 18.81 x .17 x(VF) 3.2 #Estimated 9.6 gal. purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater no If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 7:30 Purging Flow Rate 1.5 gpm.

Sampling Time 7:41

Time	pH	Conductivity	Temperature	Volume
<u>7:32</u>	<u>7.26</u>	<u>498</u>	<u>15.0</u>	<u>3</u> gal
<u>7:34</u>	<u>6.99</u>	<u>518</u>	<u>17.1</u>	<u>6</u> ↓
<u>7:36</u>	<u>6.97</u>	<u>523</u>	<u>17.3</u>	<u>9</u> ↓
<u>7:41</u>	<u>6.97</u>	<u>535</u>	<u>17.3</u>	<u>10</u> ↓

Weather Conditions sunny

Water Color: clear Odor: none

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-3</u>	<u>3X40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTCL</u>	<u>Gas BTEX w/ATSE</u>

Comments \_\_\_\_\_



Chevron U.S.A. Inc.  
 P.O. BOX 5004  
 San Ramon, CA 94583  
 FAX (415)842-9591

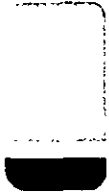
Chevron Facility Number 9-0100  
 Facility Address 2422 Central Ave. Alameda  
 Consultant Project Number 5178.85  
 Consultant Name Gettler-Ryan  
 Address 6747 Sierra Ct, Ste J, Dublin 94568  
 Project Contact (Name) Deanna Harding  
 (Phone) 510-551-7555 (Fax Number) 510-551-7888

Chevron Contact (Name) Tammy Hodge  
 (Phone) (510) 842-9449  
 Laboratory Name GTEL  
 Laboratory Release Number 3470820  
 Samples Collected by (Name) Guadalupe Sanchez  
 Collection Date 3-8-96  
 Signature Guadalupe Sanchez

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											DO NOT BILL TB-LB ANALYSIS	Remarks	
								TPH Gas + BTEX w/MTBE (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)						
TB-LB	1	2	W	G	-	HLL	Yes	X													
MW-3	2	3			7:41																
MW-2	3				8:10																
MW-1	4				8:29																
No Seals 4cc																					
7026516976																					

WB030162

Relinquished By (Signature) <u>Guadalupe Sanchez</u>	Organization <u>GTEL</u>	Date/Time <u>1049 3-8-96</u>	Received By (Signature) <u>Tammy Hodge</u>	Organization <u>GTEL</u>	Date/Time <u>3/8/96 10:45</u>	Turn Around Time (Circle Choice) <input checked="" type="checkbox"/> 24 Hrs. <input type="checkbox"/> 48 Hrs. <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input checked="" type="checkbox"/> As Contracted
Relinquished By (Signature) <u>John Welch</u>	Organization <u>GTEL</u>	Date/Time <u>1620 3-8-96</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Tammy Hodge</u>		Date/Time <u>0912 3/9/96</u>	



# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

**Midwest Region**

4211 May Avenue  
Wichita, KS 67209  
(316) 945-2624  
(800) 633-7936  
(316) 945-0506 (FAX)

March 19, 1996

Deanna Harding  
GETTLER-RYAN  
6747 Sierra Ct.  
Suite J  
Dublin, CA 94568

RECEIVED

MAR 22 1996

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

---

RE: GTEL Client ID:	GTR01CHV08
Login Number:	W6030182
Project ID (number):	5178.85
Project ID (name):	CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

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Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 03/09/96.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the Department of Health Service under Certification Number 1845.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

*Justin Waters, Project Coordinator for*  
 Terry R. Loucks  
 Laboratory Director

ANALYTICAL RESULTS  
Volatile Organics

GTEL Client ID: GTR01CHV08 -  
 Login Number: W6030182  
 Project ID (number): 5178.85  
 Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	W6030182-01	W6030182-02	W6030182-03	W6030182-04
Client ID	TBLB	MW-3	MW-2	MW-1
Date Sampled		03/08/96	03/08/96	03/08/96
Date Analyzed	03/16/96	03/16/96	03/16/96	03/16/96
Dilution Factor	1.00	1.00	1.00	10.0

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	5.0	ug/L	< 5.0	< 5.0	10.	60.
Benzene	0.5	ug/L	< 0.5	< 0.5	42.	250
Toluene	0.5	ug/L	< 0.5	< 0.5	2.0	< 5.0
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	0.7	< 5.0
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	2.2	< 5.0
BTEX (total)	--	ug/L	--	--	47.	260
TPH as Gasoline	50	ug/L	< 50	< 50	1300	5600

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

GTEL Client ID: GTR01CHV08

QUALITY CONTROL RESULTS

Login Number: W6030182

Volatile Organics

Project ID (number): 5178.85

Method: EPA 8020

Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Matrix: Aqueous

Conformance/Non-Conformance Summary

(X = Requirements Met \* = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments -

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS  
Login Number: W6030182  
Project ID (number): 5178.85  
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Volatile Organics  
Method: EPA 8020  
Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020			Acceptability Limits: 43-136%
031796GC17-1	BW03179617	Method Blank Water	102.
031796GC17-2	LW03179617	Laboratory Control	105.
031796GC17-3	LWD03179617	LCS Water Duplicat	112.
031796GC17-4	MS03018102	Matrix Spike	106.
031796GC17-5	CV0317962017	Calibration Verifi	100.
--	03018201	TBLB	103.
--	03018202	MW-3	106.
--	03018203	MW-2	109.
--	03018204	MW-1	109.

Notes:

\*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Project ID (Number): 5178.85  
Project ID (Name): Chevron SS #9-0100  
2428 Central Ave  
Alameda, CA  
Work Order Number: W6-03-0182  
Date Reported: 03-19-96

METHOD BLANK REPORT

Volatile Organics in Water  
EPA Method 8020

Date of Analysis: 16-Mar-96

QC Batch No: 031796GC17-1

Analyte	Concentration, ug/L
MTBE	<5.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylene (total)	<0.5
TPH as Gasoline	<50.0

GTEL Client ID: GTR01CHV08                      QUALITY CONTROL RESULTS  
Login Number: W6030182  
Project ID (number): 5178.85  
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Volatile Organics  
Method: EPA 8020  
Matrix: Aqueous

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020	Units:ug/L	QC Batch:031796GC17-5		
Benzene	20.0	18.6	93.0	77-123%
Toluene	20.0	18.7	93.5	77.5-122.5%
Ethylbenzene	20.0	18.3	91.5	63-137%
Xylenes (Total)	60.0	55.9	93.2	85-115%
TPH as Gasoline	500.	518.	104.	80-120%



Notes:

QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08      QUALITY CONTROL RESULTS  
 Login Number: W6030182  
 Project ID (number): 5178.85  
 Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6030181-02		MS ID:MS03018102			
Analysis Date: 16-MAR-96		16-MAR-96			
Units: ug/L	Sample	Spike	MS	MS	Acceptability Limits
Analyte	Conc.	Added	Conc.	% Rec.	%Rec.
Benzene	< 0.5 (0.340)	20.0	19.9	97.8	67-110
Toluene	< 0.5 (0.000)	20.0	19.4	97.0	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	18.7	93.5	65-120
Xylenes (Total)	< 0.5 (0.180)	60.0	55.0	91.4	62-119

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations



GTEL Client ID: GTR01CHV08

QUALITY CONTROL RESULTS

Login Number: W6030182

Project ID (number): 5178.85

Volatile Organics

Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Method: EPA 8020

Matrix: Aqueous

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits	
							RPD, %	Recovery, %
EPA 8020	Units: ug/L	QC Batch:031796GC17-3						
Benzene	20.0	21.4	107.	20.2	101.	5.77	20	39-150%
Toluene	20.0	21.4	107.	20.8	104.	2.84	20	46-148%
Ethylbenzene	20.0	21.5	108.	19.9	99.5	8.19	20	32-160%
Xylenes (Total)	60.0	63.8	106.	62.3	104.	1.90	20	51-145%

Notes: