

ENVIRONMENTAL  
PROTECTION



**Chevron**

97 FEB 28 PM 3:15

February 27, 1997

Ms. Juliet Shin  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Chevron Products Company**  
6001 Bollinger Canyon Road  
Building L  
San Ramon, CA 94583  
P.O. Box 6004  
San Ramon, CA 94583-0904

**Marketing - Sales West**  
Phone 510 842-9500

**Re: Former Chevron Service Station #9-0191  
900 Otis Drive , Alameda, California**

Dear Ms. Shin:

Enclosed is the Fourth Quarter Groundwater Monitoring report for 1996, prepared by our consultant Gettler-Ryan Inc., for the above noted site. Groundwater samples were analyzed for TPH-g, BTEX and MtBE constituents.

Only monitoring wells MW-2 and MW-3 were sampled and analyzed for the constituents, the other wells were measured for groundwater depth to determine the direction of flow. Well MW-2 was below method detection limits for all constituents, while MW-3 detected 4.3 ppb and 0.62 ppb of benzene and ethyl benzene constituents respectively. Toluene and Xylene constituents were below method detection limits in MW-3.

Groundwater depth varied from 2.66 to 4.95 feet below grade with a direction of flow to the northwest.

This appears to be a low risk site and Chevron believes that this site can be closed based on existing criteria, however, since a minimal impact of benzene was detected in MW-3 we will monitor for another quarter to see if this was an anomaly. After these results are received, they will be reviewed to determine if closer will be requested. <sup>closure</sup>

If you have any questions, call me at (510) 842-9136.

Sincerely,  
CHEVRON PRODUCTS COMPANY

Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

February 27, 1997  
Ms. Juliet Shin  
Former Chevron Service Station # 9-0191  
Page 2

cc. Ms. Bette Owen, Chevron

Harsch Investment Corp.  
dba South Shore Center  
235 W. MacArthur Boulevard, #63  
Oakland, CA 94611

Mr. Phil Eyring  
Eyring Reality Inc.  
500 Ygnacio Valley Road, # 225  
Walnut Creek, CA 94596

Mr. Kevin Graves  
RWQCB-San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612



# GETTLER-RYAN INC.

ENVIRONMENTAL  
PROTECTION

97 FEB 28 PM 3: 16

January 7, 1997

Job #6324.80

Mr. Phillip Briggs  
Chevron Products Company  
P.O. Box 5004  
San Ramon, CA 94583

Re: Fourth Quarter Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-0191  
900 Otis Drive  
Alameda, California

Dear Mr. Briggs:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On December 3, 1996, field personnel were on-site to monitor six wells (MW-2 through MW-7) and sample two wells (MW-2 and MW-3) at the Former Chevron Service Station #9-0191 located at 900 Otis Drive in Alameda, California.

Static groundwater levels were measured on December 3, 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 - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

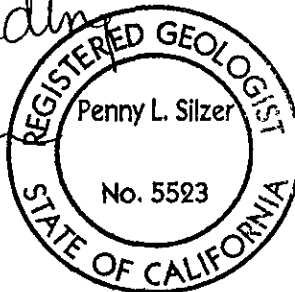
Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

*Deanna L. Harding*

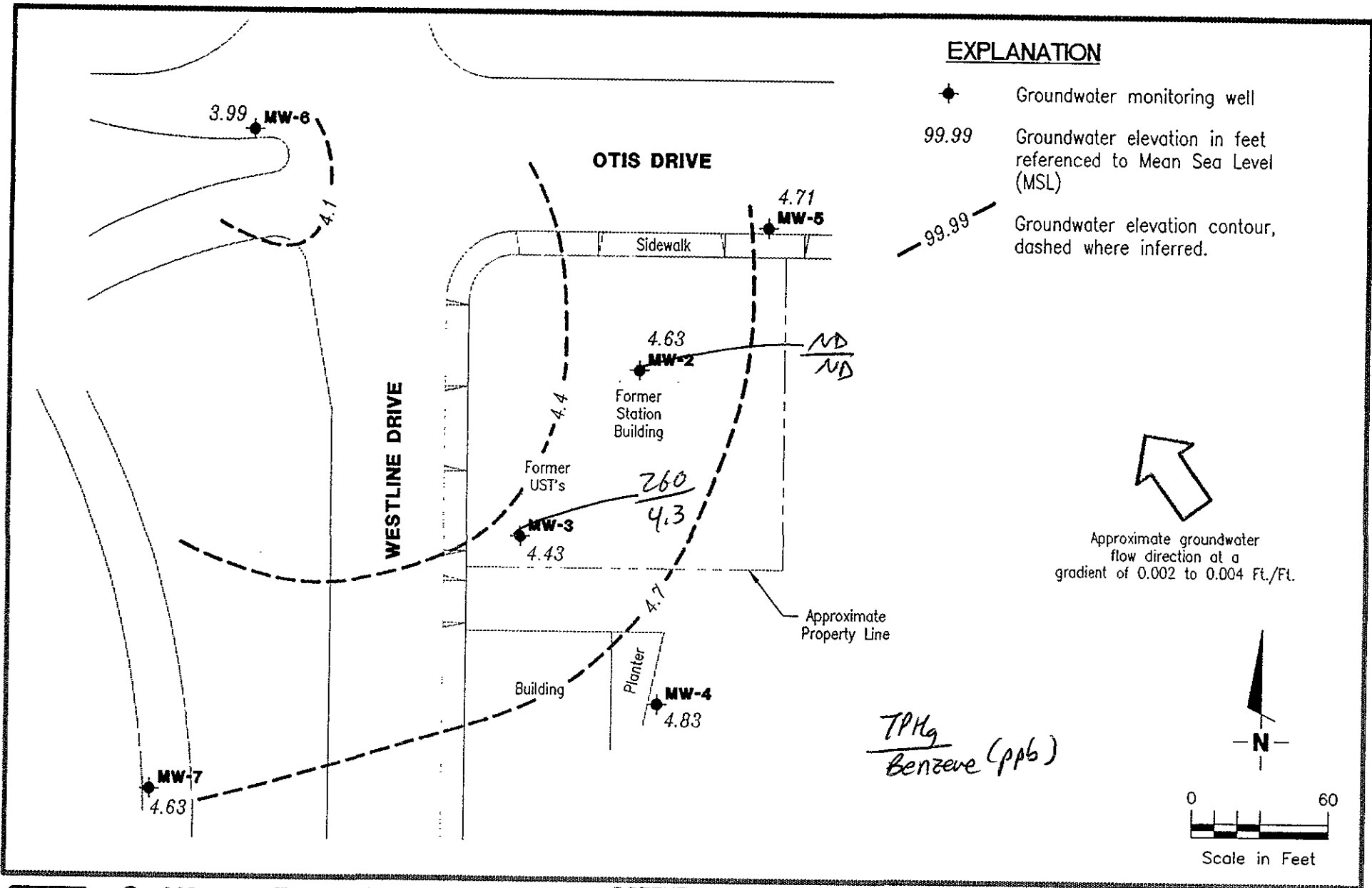
Deanna L. Harding  
Project Coordinator

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



DLH/PLS/dlh  
6324.QML

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



**Gertler - Ryan Inc.**

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

**POTENTIOMETRIC MAP**

Former Chevron Service Station No. 9-0191  
 900 Otis Drive  
 Alameda, California

FIGURE

**1**

JOB NUMBER  
 6324

REVIEWED BY  
 PLS

DATE  
 December 3, 1996

REVISED DATE



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				
						B	T	E	X	MTBE
<b>MW-2/</b>										
9.17	2/8/96	2.75	6.42	—	94	ND	ND	ND	ND	—
	6/27/96	4.99	4.18	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	5.21	3.96	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	4.54	4.63	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
<b>MW-3/</b>										
7.11	2/8/96	1.36	5.75	—	460	26	ND	5.8	ND	—
	6/27/96	3.22	3.89	0	130 <sup>1</sup>	<0.50	<0.50	<0.50	0.51	16
	9/3/96	3.08	4.03	0	160 <sup>2</sup>	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	2.68	4.43	0	260 <sup>2</sup>	4.3	<0.50	0.62	<0.50	50
<b>MW-4/</b>										
7.78	2/8/96	1.32	6.46	—	ND	ND	ND	ND	ND	—
	6/28/96	2.99	4.79	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	3.50	4.28	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	2.95	4.83	0	—	—	—	—	—	—
<b>MW-5/</b>										
7.37	2/8/96	0.75	6.62	—	ND	ND	ND	ND	ND	—
	6/27/96	2.66	4.71	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	3.29	4.08	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	2.66	4.71	0	—	—	—	—	—	—
<b>MW-6/</b>										
7.30	2/8/96	2.10	5.20	—	ND	ND	ND	ND	ND	—
	6/27/96	3.98	3.32	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	3.50	3.80	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	3.31	3.99	0	—	—	—	—	—	—
<b>MW-7/</b>										
9.58	2/8/96	3.24	6.34	—	ND	ND	ND	ND	ND	—
	6/27/96	5.07	4.51	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	5.29	4.29	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	4.95	4.63	0	—	—	—	—	—	—
<b>Trip Blank</b>										
	6/27/96	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California  
(continued)

EXPLANATION:

TOC = Top of casing elevation  
(ft) = feet  
DTW = Depth to water  
GWE = Groundwater elevation  
msl = Measurements referenced relative to mean sea level  
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes  
MTBE = Methyl-tertiary-butyl-ether  
ppb = Parts per billion  
ND = Not-Detected  
--- = Not analyzed/Not applicable

ANALYTICAL METHODS:

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

NOTES:

Water level elevation data and laboratory analytical results prior to June 27, 1996, were compiled from Quarterly Monitoring Reports prepared for Chevron by Pacific Environmental Group.

\* Product thickness was measured on and after June 27, 1996, with a MMC Flexi-Dip interface probe.

<sup>1</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.

<sup>2</sup> Laboratory report indicates unidentified hydrocarbons < C8.

6324.TQM



## 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 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.

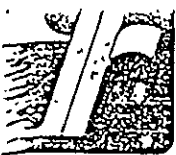
After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging.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



# WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 12-3-96

ADDRESS 900 Otis Drive JOB # 6324.85

CITY Alameda CA SS# 9-0191

Well ID MW-2 Well Condition okay

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

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 15' ft

Depth to Liquid 4.54 ft

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

# of casing 3X Volume 10.46 x 0.17 x (VF) 1.8 #Estimated 614 gal. purge Volume

Purge Equipment Snake Sampling Equipment Bailer

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

Starting Time 11:07 Purging Flow Rate 1 gpm.

Sampling Time 14:15

Time	pH	Conductivity	Temperature	Volume
<u>14:09</u>	<u>7.36</u>	<u>608</u>	<u>18.5</u>	<u>2</u>
<u>14:11</u>	<u>7.43</u>	<u>699</u>	<u>19.7</u>	<u>4</u>
<u>14:13</u>	<u>7.45</u>	<u>695</u>	<u>19.7</u>	<u>6</u>
<u>14:15</u>	<u>7.43</u>	<u>699</u>	<u>19.4</u>	<u>7</u>

Weather Conditions cloudy cool

Water Color: clear Odor: None

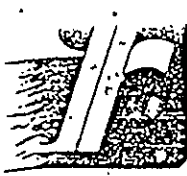
Sediment Description None

## LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-2</u>	<u>3x40ml VOA</u>	<u>Y</u>	<u>HA</u>	<u>GBA</u>	<u>GeoBTRB M125</u>

Comments \_\_\_\_\_





WELL SAMPLING FIELD DATA SHEET

SAMPLER Ficline DATE 12-3-96

ADDRESS 900 Otis Drive JOB # 6324

CITY Alameda CA SS# 9-0191

Well ID MW-3 Well Condition okay

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

Well Diameter 2" in Hydrocarbon Thickness Ø

Total Depth 14' ft

Depth to Liquid 2.68 ft

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

# of casing 3x 11.32 x 0.117 x (VF) 1.9 #Estimated 5.18 gal. purge Volume

Purge Equipment Stack Sampling Equipment Bailer

Did well dewater \_\_\_\_\_ If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 14:25 Purging Flow Rate 1 gpm.

Sampling Time 14:33

Time	pH	Conductivity	Temperature	Volume
<u>1427</u>	<u>6.98</u>	<u>767</u>	<u>16.3</u>	<u>2</u>
<u>1429</u>	<u>6.81</u>	<u>675</u>	<u>15.8</u>	<u>4</u>
<u>1431</u>	<u>7.00</u>	<u>680</u>	<u>15.8</u>	<u>6</u>
<u>1433</u>	<u>6.98</u> ✓	<u>685</u> ✓	<u>15.8</u> ✓	<u>7</u>

Weather Conditions Cloudy cool

Water Color: clear Odor: none

Sediment Description Alu?

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>AW-3</u>	<u>3x40ml VOA</u>	<u>Y</u>	<u>1%L</u>	<u>SRG</u>	<u>CoS B XE M 13e</u>

Comments \_\_\_\_\_

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

Chevron Facility Number 9-0191  
Facility Address 900 Otis Drive Alameda  
Consultant Project Number 6324.85  
Consultant Name Gettler-Ryan  
Address 6747 Sierra Ct, Ste J, Dublin 94568  
Project Contact (Name) Deanna Harding  
(Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) Phil Briggs  
(Phone) 842-9136  
Laboratory Name SEQ  
Laboratory Release Number Service order # ~~2197706~~ 9033187  
Samples Collected by (Name) Fi Cline  
Collection Date 12-3-96  
Signature [Signature]

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)	Analysis To Be Performed										Remarks	
								TPH Gas + BTEX w/MTBE (8016)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
TB-UB	1 AB	2	W	TB	-	HL	Y	X											
MW-3	2 AC	3	↓	G	1433	↓	↓	X											
MW-2	3 ↓	3	↓	G	1415 MW-2	↓	↓	X											

9612173

DO NOT BILL  
TB-LB ANALYSIS

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GR</u>	Date/Time <u>12-3-96</u>	Received By (Signature) <u>D. Harding</u>	Organization <u>GR</u>	Date/Time <u>12/4/96</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days 10 Days <u>As Contracted</u> DEC = 3 12
Relinquished By (Signature) <u>D. Harding</u>	Organization <u>GR</u>	Date/Time <u>12/4/96</u>	Received By (Signature) <u>Steve Tan</u>	Organization <u>SEQ</u>	Date/Time <u>12-4-96 1:55 PM</u>	
Relinquished By (Signature) <u>Steve Tan</u>	Organization <u>SEQ</u>	Date/Time <u>12/4/96</u>	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>12-4-96</u>	

COC-3-DWG-03 9/1/96



DEC 24 1996

GETTLER-RYAN INC

Gettler Ryan/Geostrategies  
6747 Sierra Court Suite G  
Dublin, CA 94568

Client Proj. ID: Chevron 9-0191, Alameda  
Sample Descript: TB-LB  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9612173-01

Sampled: 12/03/96  
Received: 12/04/96  
Analyzed: 12/06/96  
Reported: 12/13/96

Attention: Deanna Harding


QC Batch Number: GC120696BTEX18A  
Instrument ID: GCHP18

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	101

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Chevron 9-0191, Alameda Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612173-02	Sampled: 12/03/96 Received: 12/04/96 Analyzed: 12/06/96 Reported: 12/13/96
---	--	---

Attention: Deanna Harding  
QC Batch Number: GC120696BTEX18A  
Instrument ID: GCHP18

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

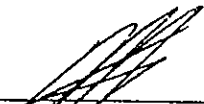
Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	260
Methyl t-Butyl Ether	2.5	50
Benzene	0.50	4.3
Toluene	0.50	N.D.
Ethyl Benzene	0.50	0.62
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Gas & Unidentified HC		<C8

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	179 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210




---

Mike Gregory  
Project Manager





Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Chevron 9-0191, Alameda Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612173-03	Sampled: 12/03/96 Received: 12/04/96 Analyzed: 12/09/96 Reported: 12/13/96
---	--	---

QC Batch Number: GC120996BTEX07A  
Instrument ID: GCHP07

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	105

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies  
6747 Sierra Court Suite G  
Dublin, CA 94568  
Attention: Deanna Harding

Client Proj. ID: Chevron 9-0191, Alameda

Received: 12/04/96

Lab Proj. ID: 9612173


Reported: 12/13/96

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

#Q - Surrogate coelution was confirmed.

SEQUOIA ANALYTICAL

  
Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies  
6747 Sierra Court, Ste J  
Dublin, CA 94568  
Attention: Deanna Harding

Client Project ID: Chevron 9-0191, Alameda  
Matrix: Liquid

Work Order #: 9612173 -01, 02

Reported: Dec 17, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC120696BTEX18A	GC120696BTEX18A	GC120696BTEX18A	GC120696BTEX18A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9611F1403	9611F1403	9611F1403	9611F1403
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/6/96	12/6/96	12/6/96	12/6/96
Analyzed Date:	12/6/96	12/6/96	12/6/96	12/6/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L

Result:	9.6	9.8	9.7	28
MS % Recovery:	96	98	97	93

Dup. Result:	9.9	10	10	29
MSD % Recov.:	99	100	100	97

RPD:	3.1	2.0	3.0	3.5
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK120696	BLK120696	BLK120696	BLK120696
Prepared Date:	12/6/96	12/6/96	12/6/96	12/6/96
Analyzed Date:	12/6/96	12/6/96	12/6/96	12/6/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.8	10	9.9	28
LCS % Recov.:	98	100	99	93

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

*Mike Gregory*  
Project Manager

Please Note:  
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9612173.GET <1>



Gettler Ryan/Geostrategies  
6747 Sierra Court, Ste J  
Dublin, CA 94568

Client Project ID: Chevron 9-0191, Alameda  
Matrix: Liquid

Attention: Deanna Harding

Work Order #: 9612173-03

Reported: Dec 17, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC120996BTEX07A	GC120996BTEX07A	GC120996BTEX07A	GC120996BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	961218002	961218002	961218002	961218002
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/9/96	12/9/96	12/9/96	12/9/96
Analyzed Date:	12/9/96	12/9/96	12/9/96	12/9/96
Instrument I.D.#:	GCHP07	GCHP07	GCHP07	GCHP07
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	9.7	9.7	29
MS % Recovery:	100	97	97	97
Dup. Result:	12	11	11	33
MSD % Recov.:	120	110	110	110
RPD:	18	13	13	13
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK120996	BLK120996	BLK120996	BLK120996
Prepared Date:	12/9/96	12/9/96	12/9/96	12/9/96
Analyzed Date:	12/9/96	12/9/96	12/9/96	12/9/96
Instrument I.D.#:	GCHP07	GCHP07	GCHP07	GCHP07
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	31
LCS % Recov.:	100	100	100	103

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

  
Mike Gregory  
Project Manager

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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