

February 2, 1996

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FEB 2 1996



Mr. Scott Seery  
Alameda County  
Enviro. Protection Div.  
1131 Harbor Bay Parkway, Rm 250  
Alameda, CA 94502-6577

**Chevron U.S.A. Products Company**  
6001 Bollinger Canyon Rd., Bldg. L  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Site Assessment & Remediation Group**  
Phone (510) 842-9500

Re: Chevron Service Station #9-0917  
5280 Hopyard Rd. Pleasanton, CA

Dr. Mr. Serry,

Please find attached the fourth quarter 1995 quarterly groundwater sampling report prepared by Gettler-Ryan Inc. dated January 22, 1996. This report provides the results of the sampling event performed on December 16, 1996.

The groundwater samples collected by Gettler-Ryan were analyzed for the presence of TPHG and BTEX constituents. The results obtained during this sampling event were consistent with previous sampling events at this site.

Chevron will continue with the quarterly monitoring schedule in place for this site. If you have any questions regarding this site I can be reached by phone at (510) 842-9449 or by fax at (510) 842-5966.

Sincerely,

Tammy L Hodge  
Groundwater Coordinator  
Site Assessment and Remediation

cc:

- ~ Eddie So, RWQCB-Bay Region
- ~ Property Owners, C&H Development Co.  
3744 Mt. Diablo Blvd. Suite 301, Lafayette CA 94549
- ~ Steve Willer, Chevron Property Development
- ~ File #9-0917



# GETTLER-RYAN INC.

January 22, 1996

Job #5242.80

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

Re: Chevron Service Station #9-0917  
5820 Hopyard Road  
Pleasanton, California

Dear Ms. Hodge:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On December 16, 1995, field personnel were on-site to monitor and sample three wells (MW-4, MW-5 and MW-6) at Chevron Service Station #9-0917 located at 5820 Hopyard Road in Pleasanton, California.

Static groundwater levels were measured on December 16, 1995. 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.

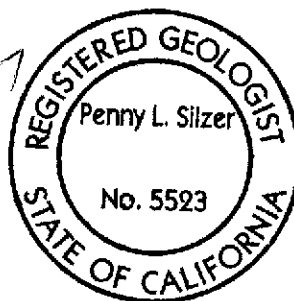
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by GTEL Environmental Laboratories, Inc. Analytical results are 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,

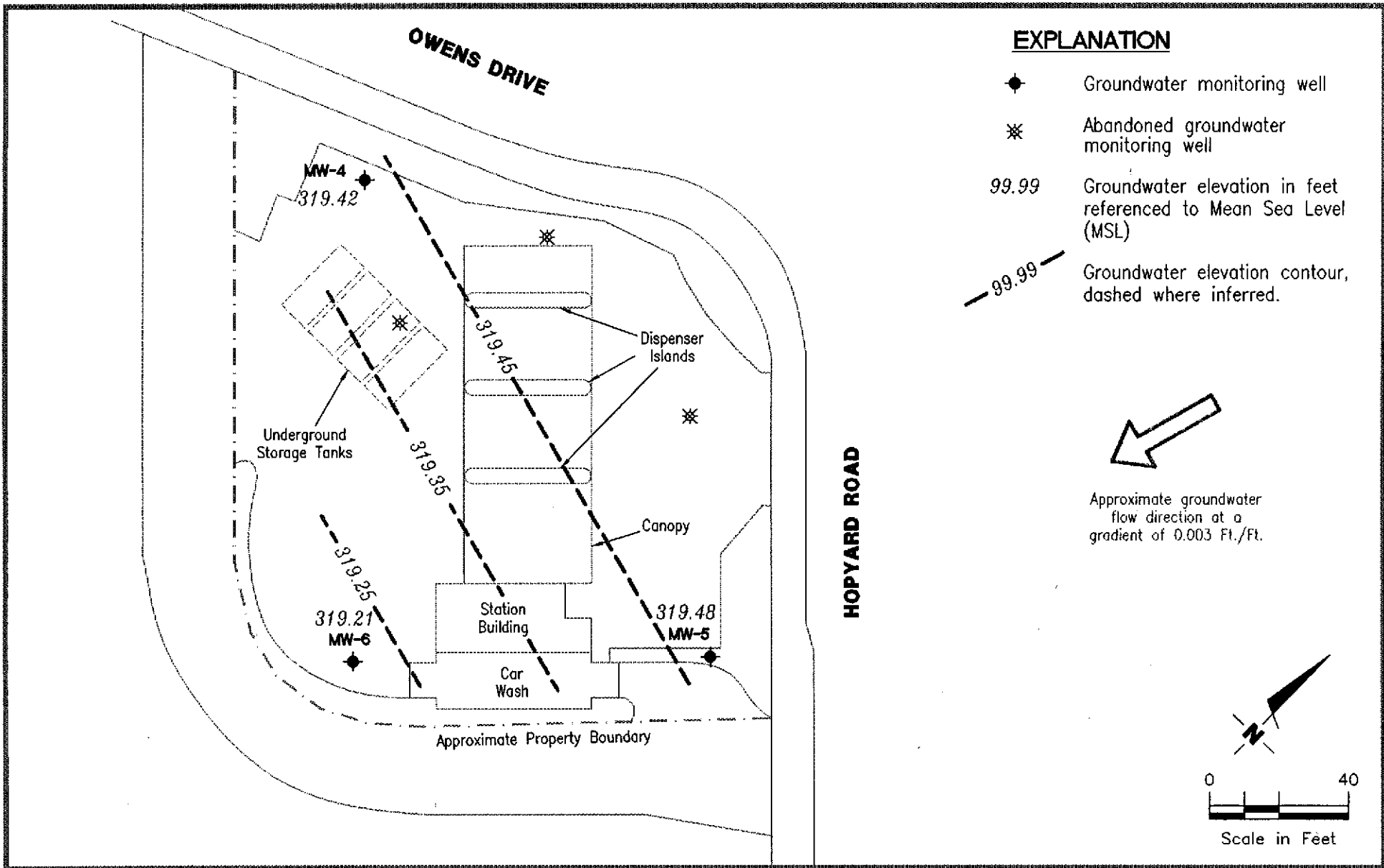
*Greg A. Guss*  
Greg A. Guss  
Project Manager

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



GAG/PLS/dlh  
5242.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



**Gettler - Ryan Inc.**

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

**POTENTIOMETRIC MAP**  
Chevron Service Station No. 9-0917  
5280 Hopyard Road  
Pleasanton, California

FIGURE

**1**

JOB NUMBER  
5242

REVIEWED BY

DATE  
December 16, 1995

REVISED DATE



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	ppb				MTBE
						B	T	E	X	
<b>MW-1<sup>1</sup></b>										
326.48	7/12/89	—	—	—	100	<0.5	<0.5	6	<0.5	—
	8/2/89	8.10	318.38	0	—	—	—	—	—	—
	10/24/89	7.51	318.97	0	<50	1	<0.5	13	<0.5	—
	3/12/90	8.41	318.07	0	140	0.8	<0.5	1	<0.5	—
	3/26/90	8.14	318.34	0	—	—	—	—	—	—
	6/22/90	8.31	318.17	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/11/90	8.14	318.35	0	<50	<0.5	<0.5	<0.5	<0.5	—
	4/18/91	8.02	318.34	0	77	<0.5	<0.5	<0.5	<0.5	—
<b>MW-2<sup>1</sup></b>										
327.53	7/17/89	—	—	0	<50	<0.5	<0.5	<0.5	<0.5	—
	8/2/89	9.05	318.48	0	—	—	—	—	—	—
	10/24/89	9.24	318.29	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/12/90	10.07	317.46	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/90	10.05	317.48	0	—	—	—	—	—	—
	6/22/90	10.05	317.48	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/11/90	9.68	317.85	0	<50	<0.5	<0.5	<0.5	<0.5	—
	4/18/91	9.23	318.30	0	<50	<0.5	<0.5	<0.5	<0.5	—
<b>MW-3<sup>1</sup></b>										
326.47	7/17/89	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	8/2/89	8.15	318.32	0	—	—	—	—	—	—
	10/24/89	7.59	318.88	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/12/90	8.47	318.00	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/90	8.83	317.64	0	—	—	—	—	—	—
	6/22/90	8.83	317.64	0	<50	0.4	<0.5	0.8	<0.5	—
	9/11/90	8.41	318.06	0	<50	<0.5	<0.5	<0.5	<0.5	—
	4/18/91	7.98	318.49	0	<50	<0.5	<0.5	<0.5	<0.5	—
<b>MW-4<sup>1</sup></b>										
327.28	9/16/91	9.59	317.69	0	<50	<0.5	<0.5	<0.5	<0.5	—
	1/22/92	9.49	317.79	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	8.89	318.39	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/5/92	9.22	318.06	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/23/92	9.35	317.93	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/30/92	8.28	319.00	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/22/93	8.25	319.03	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/14/93	9.16	318.12	0	—	—	—	—	—	—
	7/25/93	9.10	318.18	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/23/93	8.70	318.58	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/28/93	9.90	317.38	0	<50	<0.5	<0.5	<0.5	0.5	—
	3/21/94	9.25	318.03	0	<50	1.0	2.0	0.5	1.9	—



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->					MTBE
						B	T	E	X		
MW-4 (cont)	6/7/94	9.05	318.23	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	10/7/94	8.97	318.31	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/29/94	9.22	318.06	0	<50 <sup>2</sup>	<0.5	1.1	0.8	2.7	---	
	3/6/95	9.02	318.26	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/14/95	8.81	318.47	0	170	<0.5	<0.5	<0.5	<0.5	---	
	9/14/95	9.28	318.00	0	<50	1.0	<0.5	1.6	<0.5	---	
	12/16/95	7.86	319.42	0	<50	<0.50	<0.50	<0.50	<0.50	150	
MW-5/ 327.82	9/16/91	10.06	317.76	0	12,000	4,000	29	1,600	92	---	
	1/22/92	10.58	317.24	0	44,000	2,000	320	5,700	2,400	---	
	3/26/92	9.18	318.64	0	39,000	3,200	210	5,700	2,400	---	
	6/5/92	9.90	317.92	0	28,000	3,800	140	4,000	2,000	---	
	9/23/92	9.97	317.85	0	40,000	2,000	290	2,900	1,800	---	
	12/30/92	8.80	319.02	0	44,000	9,000	190	3,100	1,600	---	
	3/22/93	9.33	318.49	0	43,000	6,500	170	2,400	2,400	---	
	6/14/93	9.78	318.04	0	---	---	---	---	---	---	
	7/25/93	9.72	318.10	0	43,000	550	45	2,700	1,100	---	
	9/23/93	9.42	318.40	0	44,000 <sup>2</sup>	14,000	640	3,700	1,800	---	
	12/28/93	9.67	318.15	0	56,000	12,000	590	4,100	1,600	---	
	3/21/94	9.71	318.11	0	48,000	12,000	600	4,700	1,600	---	
	6/7/94	9.72	318.10	0	42,000	13,000	480	3,700	1,200	---	
	10/7/94	9.55	318.27	0	15,000	1,100	41	950	34	---	
	12/29/94	9.92	317.90	0	45,000	12,000	460	3,600	1,400	---	
	3/6/95	9.32	318.50	0	40,000	9,700	210	3,500	700	---	
	6/14/95	9.41	318.41	0	42,000	8,000	170	3,700	640	---	
9/14/95	10.52	317.30	0	26,000 <sup>2</sup>	4,100	85	2,000	270	---		
12/16/95	8.34	319.48	0	35,000	7,300	<0.50	2,900	420	<500		
MW-6/ 328.48	9/16/91	10.61	317.87	0	6,200	1,300	3.9	550	78	---	
	1/22/92	10.30	318.18	0	18,000	2,800	48	2,000	440	---	
	3/26/92	9.50	318.98	0	21,000	3,300	17	2,100	300	---	
	6/5/92	10.34	318.14	0	14,000	2,800	9.2	1,800	270	---	
	9/23/92	10.56	317.92	0	19,000	1,000	40	1,200	230	---	
	12/30/92	9.75	318.71	0	15,000	1,100	<5	1,000	77	---	
	3/22/93	9.27	319.21	0	15,000	1,300	10	770	220	---	
	6/14/93	10.15	318.33	0	---	---	---	---	---	---	
	7/25/93	10.25	318.23	0	6,400	630	<2.5	440	6	---	
	9/23/93	10.17	318.31	0	9,500	1,000	23	690	110	---	
	12/28/93	10.52	317.96	0	11,000	890	31	730	48	---	



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb-----→				MTBE
						B	T	E	X	
MW-6 (cont)	3/21/94	10.28	318.20	0	5,700	380	10	270	22	—
	6/7/94	10.28	318.20	0	5,300	600	4.4	370	26	—
	10/7/94	10.42	318.06	0	2,600	270	<5.0	110	<5.0	—
	12/29/94	10.25	318.23	0	4,500	560	6.2	360	<5.0	—
	3/6/95	9.36	319.12	0	4,100	480	15	290	20	—
	6/14/95	10.11	318.37	0	2,800	180	6.9	110	6.6	—
	9/14/95	10.27	318.21	0	3,100 <sup>3</sup>	370	<0.5	250	<0.5	—
	12/16/95	9.27	319.21	0	1,900	210	<0.50	76	<0.50	<13
Trip Blank										
	6/22/90	—	—	—	<50	<0.3	<0.3	<0.3	<0.6	—
	9/16/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	1/22/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	6/5/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
TB-LB	9/23/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	12/30/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	3/22/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	7/25/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	9/23/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	12/28/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	3/21/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	6/7/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	10/7/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	12/29/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	3/6/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	6/14/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	9/14/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	12/16/95	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	Bailer Blank									
BB	3/22/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	7/25/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	9/23/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	12/28/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	3/21/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, 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  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes  
MTBE = Methyl-tertiary-butyl ether  
ppb = Parts per billion  
--- = Not applicable/not available

**ANALYTICAL METHODS:**

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

**NOTES:**

Water level elevation data and laboratory analytic results prior to June 14, 1995 were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

- \* Product thickness was measured with an MMC flexi-dip interface probe on and after March 22, 1993.
- <sup>1</sup> Wells MW-1, MW-2 and MW-3 were abandoned on April 18 and 19, 1991.
- <sup>2</sup> Uncategorized compound not included in gasoline hydrocarbon concentration.
- <sup>3</sup> Uncategorized compound not included in gasoline concentration. Data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.



## 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 12-16-95  
 ADDRESS 5280 Hopyard Rd JOB # 5242-85  
 CITY Pleasanton SS# 9-C917

Well ID MW-4 Well-Condition OK

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

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 24.8 ft

Depth to Liquid 7.86 ft

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

3 # of casing Volume 16.94 x 0.17 x(VF) 2.9 #Estimated 8-6 gal. <sup>purge</sup> Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

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

Starting Time 1146 Purging Flow Rate 1.5 gpm.

Sampling Time 1157

Time	pH	Conductivity	Temperature	Volume
<u>1148</u>	<u>7.8</u>	<u>11900</u>	<u>65.3</u>	<u>3</u>
<u>1150</u>	<u>7.7</u>	<u>12000</u>	<u>65.5</u>	<u>6</u>
<u>1152</u>	<u>7.6</u>	<u>12100</u>	<u>65.5</u>	<u>9</u>
<u>1157</u>	<u>7.6</u>	<u>12100</u>	<u>65.5</u>	<u>12</u>

Weather Conditions Sunny

Water Color: clear Odor: none

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-4</u>	<u>3X4oz</u>	<u>Y</u>	<u>HCL</u>	<u>GTCL</u>	<u>Gas BTEX/DTBE</u>

Comments \_\_\_\_\_



### WELL SAMPLING FIELD DATA SHEET

SAMPLER Guadalupe Sanchez DATE 12-16-95  
ADDRESS 5280 Hayward Rd JOB # 5242.25  
CITY Pleasanton SS# 9-0917

Well ID MW-5 Well Condition OK

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

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 23.90 ft

Depth to Liquid 8.34 ft

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

# of casing 15 1/4 x 1 1/2 x(VF) 2.6 #Estimated 719 gal.  
Volume Suction 'purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

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

Starting Time 11:42 Purging Flow Rate 115 gpm.

Sampling Time 11:51

Time	pH	Conductivity	Temperature	Volume
<u>11:44</u>	<u>7.78</u>	<u>1650</u>	<u>18.9</u>	<u>3</u>
<u>11:46</u>	<u>7.60</u>	<u>1575</u>	<u>19.3</u>	<u>6</u>
<u>11:48</u>	<u>7.58</u>	<u>1580</u>	<u>19.6</u>	<u>9</u>
<u>11:51</u>	<u>7.58</u>	<u>1579</u>	<u>19.5</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-5</u>	<u>3X40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>For BTEX/ATBE</u>

Comments \_\_\_\_\_



### WELL SAMPLING FIELD DATA SHEET

SAMPLER Guadalupe Sanchez DATE 12-16-95  
 ADDRESS 5280 Hopyard Rd JOB # 5242-85  
 CITY Pleasanton SS# 9-0917

Well ID MW-6 Well Condition OK  
 Well Location Description \_\_\_\_\_

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 25.3 ft  
 Depth to Liquid 9.27 ft

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

# of casing Volume 16.03 x .17 x(VF) 2.7 #Estimated 8.2 gal.  
 'purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

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

Starting Time 1200 Purging Flow Rate 1.5 gpm.

Sampling Time 1210

Time	pH	Conductivity	Temperature	Volume
<u>1202</u>	<u>7.6</u>	<u>9200</u>	<u>66.7</u>	<u>3</u> gal
<u>1204</u>	<u>7.5</u>	<u>9300</u>	<u>67.1</u>	<u>6</u> gal
<u>1206</u>	<u>7.5</u>	<u>9500</u>	<u>67.2</u>	<u>9</u> gal
<u>1210</u>	<u>7.5</u>	<u>9600</u>	<u>67.2</u>	<u>10</u> gal

Weather Conditions Sunny  
 Water Color: clear Odor: none  
 Sediment Description none

### LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-6</u>	<u>3X40L</u>	<u>Y</u>	<u>HCl</u>	<u>CITEL</u>	<u>CO2 BTEX / MTBE</u>

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

**Midwest Region**

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

Project Number: 5242.85  
Chevron SS #9-0917  
5280 Hopyard Rd.  
Pleasanton, CA

Work Order Number: W5-12-0397

RECEIVED

JAN 18 1996

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

January 5, 1996

Deanna Harding  
Gettler-Ryan  
6747 Sierra Ct.  
Suite J  
Dublin, CA 94568

Dear Deanna Harding:

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories on 12-18-95 under your chain-of-custody record.

A formal quality control/quality assurance 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.

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

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

Sincerely,

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

GTEL Wichita, Ks



GTEL (Wichita) 4211 May Ave. Wichita, KS 67209 Attention: Justin Ward	Client Project ID: Chevron #9-0917 Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 512-1602	Sampled: Dec 16, 1995 Received: Dec 18, 1995 Reported: Jan 3, 1996
--	--	--

QC Batch Number:	GC122995	GC122995	GC122995	GC122995
	BTEX20A	BTEX20A	BTEX20A	BTEX20A

**TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION**

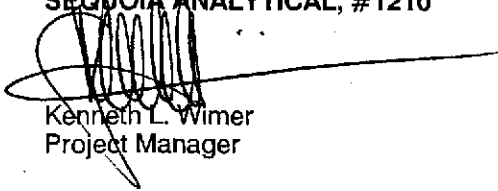
Analyte	Reporting Limit µg/L	Sample I.D. 512-1602 TB-LB	Sample I.D. 512-1603 MW-4	Sample I.D. 512-1604 MW-6	Sample I.D. 512-1605 MW-5
Purgeable Hydrocarbons	50	N.D.	N.D.	1,900	35,000
Benzene	0.50	N.D.	N.D.	210	7,300
Toluene	0.50	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	76	2,900
Total Xylenes	0.50	N.D.	N.D.	N.D.	420
Chromatogram Pattern:		--	--	Gasoline	Gasoline

**Quality Control Data**

Report Limit Multiplication Factor:	1.0	1.0	5.0	200
Date Analyzed:	12/29/95	12/29/95	12/29/95	12/29/95
Instrument Identification:	GCHP-20	GCHP-20	GCHP-20	GCHP-20
Surrogate Recovery, %: (QC Limits = 70-130%)	104	97	92	98

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL, #1210**

  
Kenneth L. Wimer  
Project Manager





# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(415) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (415) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

GTEL (Wichita)  
4211 May Ave.  
Wichita, KS 67209  
Attention: Justin Ward

Client Project ID: Chevron #9-0917  
Sample Descript: Water  
Analysis for: MTBE (Modified EPA 8020)  
First Sample #: 512-1602

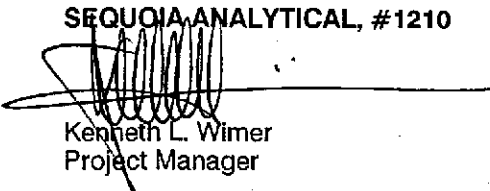
Sampled: Dec 16, 1995  
Received: Dec 18, 1995  
Analyzed: Dec 28, 1995  
Reported: Jan 3, 1996

## LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L	QC Batch Number	Instrument ID
512-1602	TB-LB	2.5	N.D.	GC122995BTEX20A	GCHP-20
512-1603	MW-4	2.5	150	GC122995BTEX20A	GCHP-20
512-1604	MW-6	13	N.D.	GC122995BTEX20A	GCHP-20
512-1605	MW-5	500	N.D.	GC122995BTEX20A	GCHP-20

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

SEQUOIA ANALYTICAL, #1210

  
Kenneth L. Wimer  
Project Manager

5121602.GTW <2>





GTEL (Wichita) Client Project ID: Chevron #9-0917  
 4211 May Ave. Matrix: Liquid  
 Wichita, KS 67209  
 Attention: Justin Ward QC Sample Group: 5121602-605 Reported: Jan 3, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC122995	GC122995	GC122995	GC122995
	BTEX21A	BTEX21A	BTEX21A	BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9512G93-05C	9512G93-05C	9512G93-05C	9512G93-05C
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/29/95	12/29/95	12/29/95	12/29/95
Analyzed Date:	12/29/95	12/29/95	12/29/95	12/29/95
Instrument I.D.#:	GCHP-20	GCHP-20	GCHP-20	GCHP-20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.1	9.0	9.0	26
MS % Recovery:	91	90	90	87
Dup. Result:	8.6	8.5	8.7	26
MSD % Recov.:	86	85	87	87
RPD:	5.6	5.7	3.4	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK122995	BLK122995	BLK122995	BLK122995
Prepared Date:	12/29/95	12/29/95	12/29/95	12/29/95
Analyzed Date:	12/29/95	12/29/95	12/29/95	12/29/95
Instrument I.D.#:	GCHP-20	GCHP-20	GCHP-20	GCHP-20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	8.7	8.8	9.0	27
LCS % Recov.:	87	88	90	90

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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**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

**SEQUOIA ANALYTICAL, #1210**  
  
 Kenneth A. Wimer  
 Project Manager

