



Chevron

December 19, 1995

Chevron U.S.A. Products Company

6001 Bollinger Canyon Rd , Bldg. L
P O. Box 5004
San Ramon, CA 94583-0804

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

Mark A. Miller
SAR Engineer
Phone No. 510 842-8134
Fax No 510 842-8252

**Re: Former Gulf Service Station #0006
460 Grand Avenue, Oakland, CA**

Dear Ms. Eberle:

Enclosed is the Quarterly Groundwater Sampling Report dated October 27, 1995, prepared by our consultant Gettler-Ryan, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene concentrations were below method detection limits in all samples analyzed. Depth to ground water was measured at approximately 5.1 to 7.3 feet below grade and the direction of flow is to the south.

As discussed in Chevron's August 25, 1995, letter, we will monitor and sample this site one additional quarter prior to conducting a risk analysis to justify closure of the site.

If you have any questions or comments, please feel free to call me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Jon Robbins - CHVPK/V1156
Ms. B.C. Owen

Mr. John C. Gibson, Adams & Gibson, 160 Sansome Street, Suite 1200,
San Francisco, CA 94104-3718

50 DEC 26 PM 2:30
RECEIVED
ENVIRONMENTAL
HEALTH SERVICES
DIVISION



GETTLER-RYAN Inc.

October 27, 1995

Job #5208.80

Mr. Mark Miller
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Gulf Service Station #9-0006
460 Grand Avenue
Oakland, California

Dear Mr. Miller:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On September 20, 1995, field personnel were on-site to monitor and sample four wells (C-1 through C-4) at the Former Gulf Service Station #9-0006 located at 460 Grand Avenue in Oakland, California.

Static groundwater levels were measured on September 20, 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.

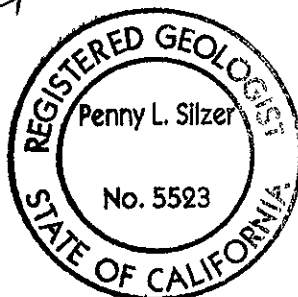
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by GTEL Environmental Laboratories, Inc. Analytical results are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

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



GAG/PLS/dlh
5208.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

EXPLANATION

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

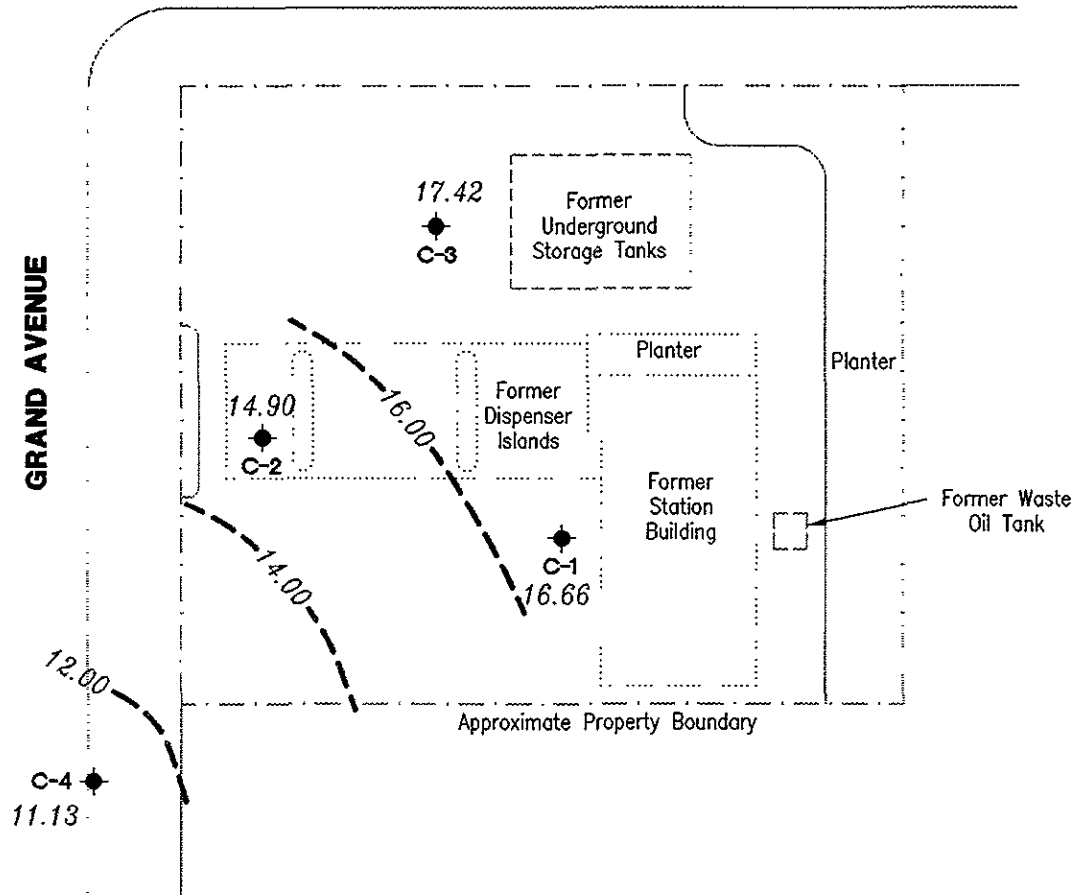


Approximate groundwater flow direction at a gradient of 0.07 Ft/Ft.



BELLEVUE AVENUE

GRAND AVENUE



Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP

Former Gulf Service Station No. 0006
460 Grand Avenue
Oakland, California

FIGURE

1

JOB NUMBER
5208.85

REVIEWED BY
[Signature]

DATE
September 20, 1995

REVISED DATE



Table 1. Water Level Data and Groundwater Analytic Results - Former Gulf Service Station #0006, 460 Grand Avenue, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <-----	-----ppb----->			
							B	T	E	X
C-1/ 22.48 ¹	12/16/92	5.68	16.80	0	8015/8020 ^{2,3,4,5}	<50	<0.5	<0.3	<0.3	<0.4
	6/22/94	5.55	16.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/26/94	6.07	16.41	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/12/94	5.28	17.20	0	8015/8020	<50	2.9	3.8	<0.5	<0.5
	3/22/95	2.86	19.62	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/5/95	4.86	17.62	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/20/95	5.82	16.66	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
C-2/ 20.49 ¹	12/16/92	7.49	13.00	0	8015/8020 ^{2,3,6,7}	640	63	83	37	90
	6/22/94	5.48	15.01	0	8015/8020	200	2.8	4.5	1.5	15
	9/26/94	6.02	14.47	0	8015/8020	<50	1.1	1.1	<0.5	0.5
	12/12/94	5.17	15.32	0	8015/8020	77	2.8	4.6	3.4	15
	3/22/95	2.60	17.89	0	8015/8020	590	<0.5	<0.5	38	130
	6/5/95	5.29	15.20	0	8015/8020	<50	<0.5	<0.5	1.9	4.9
	9/20/95	5.59	14.90	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
C-3/ 22.51 ¹	12/16/92	5.17	17.34	0	8015/8020 ^{2,3,5,6}	<50	<0.4	<0.3	<0.3	<0.4
	6/22/94	5.10	17.41	0	8015/8020	140	5.6	3	4.2	4.4
	9/26/94	5.66	16.85	0	8015/8020	51	4.2	4.2	0.7	1.5
	12/12/94	4.60	17.91	0	8015/8020	<50	2.6	3.6	1.1	4.2
	3/22/95	2.31	20.20	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/5/95	4.61	17.90	0	8015/8020	<50	0.6	<0.5	<0.5	<0.5
	9/20/95	5.09	17.42	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
C-4/ 18.44 ⁹	6/5/95	7.24	11.20	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/20/95	7.31	11.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
Trip Blank TB-LB	6/22/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/26/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/12/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/22/95	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/5/95	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/20/95	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5



Table 1. Water Level Data and Groundwater Analytic Results - Former Gulf Service Station #0006, 460 Grand Avenue, Oakland, California
(continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Groundwater elevation
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
ppb = Parts per billion
--- = Not analyzed/not applicable

ANALYTIC METHODS:

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

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.

NOTES: (continued)

- * Product thickness was measured with an MMC flexi-dip interface probe on and after June 22, 1994.
- ¹ TOC elevation is actually top of box elevation.
- ² TPH(D) was also analyzed but not detected at detection limits of 50 ppb.
- ³ Motor oil was also analyzed but not detected at detection limits of 200 ppb.
- ⁴ Cadmium, chromium, lead, nickel and zinc were also analyzed but not detected at detection limits of 0.005, 0.01, 0.05, 0.02, and 0.01 ppm, respectively.
- ⁵ Analysis by EPA method 8010 for Halogenated Volatile Organic Compounds (HVOCs) was also performed. HVOCs were not detected at detection limits of 0.2 to 4.0 ppb.
- ⁶ Cadmium, chromium, lead, nickel and zinc were also analyzed. Chromium, Nickel and zinc were detected at 0.05, 0.08 and 0.08 ppm, respectively. Other metals not detected.
- ⁷ Analysis by EPA method 8010 for HVOCs was also performed. 1,2-Dichloroethane was detected at 3.5 ppb. Other HVOCs were not detected at detection limits of 0.2 to 4.0 ppb.
- ⁸ Cadmium, chromium, lead, nickel and zinc were also analyzed. Chromium, lead, nickel and zinc were detected at 0.19, 0.07, 0.36 and 0.38 ppm, respectively. Cadmium was not detected at detection limits of 0.005 ppm.
- ⁹ TOC for well C-4 was surveyed June 9, 1995 by Mission Engineers of Santa Clara, California.



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 Ficline DATE 9-20-95

ADDRESS 460 Grand Ave JOB # 5208.85

CITY Oakland CA SS# 0006

Well ID C-1 Well Condition okay

Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 14.96 ft

Depth to Liquid 5.82 ft

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

of casing 3x 9.14 x 0.17 x(VF) 1.6 #Estimated 9.8 gal. purge Volume

Purge Equipment Suction Sampling Equipment Bailer

Did well dewater No If yes, Time _____ Volume _____

Starting Time 11:24 Purging Flow Rate _____ gpm.

Sampling Time 11:30

Time	pH	Conductivity	Temperature	Volume
<u>11:25</u>	<u>7.50</u>	<u>660</u>	<u>25.8</u>	<u>1.7</u>
<u>11:26</u>	<u>7.30</u>	<u>567</u>	<u>23.1</u>	<u>3.4</u>
<u>11:27</u>	<u>7.23</u>	<u>530</u>	<u>23.0</u>	<u>5.1</u>
<u>11:30</u>	<u>7.25</u>	<u>535</u>	<u>22.9</u>	<u>6.0</u>

Weather Conditions Sunny warm & clear

Water Color: Clear Odor: None

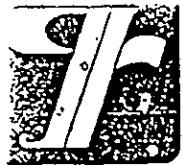
Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>2-1</u>	<u>3x40ml NSA</u>	<u>Y</u>	<u>HCC</u>	<u>GTBL</u>	<u>Cons BTVE</u>

Comments _____

72
12
84
94
5260



WELL SAMPLING FIELD DATA SHEET

SAMPLER Ficline DATE 9-20-95

ADDRESS 460 Grand Ave JOB # 5208.85

CITY Oakland CA SS# 0006

Well ID C-2 Well Condition okay

Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 14.48 ft

Depth to Liquid 5.59 ft

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

of casing Volume 3x 8.89 x 0.17 x(VF) 1.5 #Estimated purge Volume 4.5 gal.

Purge Equipment Suction Sampling Equipment Bailer

Did well dewater Yes If yes, Time 11:54 Volume 3gals

Starting Time 11:52 Purging Flow Rate 1.6 gpm.

Sampling Time 12:50

Time	pH	Conductivity	Temperature	Volume
<u>11:53</u>	<u>7.10</u>	<u>572</u>	<u>22.7</u>	<u>1.6</u>
<u>11:54</u>	<u>7.05</u>	<u>570</u>	<u>22.9</u>	<u>3.2</u>
<u>12:50</u>	<u>7.10</u>	<u>579</u>	<u>23.0</u>	<u>4.0</u>

Weather Conditions Sunny warm & clear

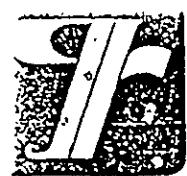
Water Color: clear Odor: Mild

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>C-2</u>	<u>2x40ml NDA</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Cons BTR</u>

Comments Recovered to 8.36' @ 12:50



WELL SAMPLING FIELD DATA SHEET

SAMPLER Ficline DATE 9-20-95
 ADDRESS 460 Grand Ave JOB # 5208.85
 CITY Oakland CA SS# 0006

Well ID C-3 Well Condition okay
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0
 Total Depth 4180 ft
 Depth to Liquid 5109 ft

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

of casing Volume 3x 9171 x 0.17 x(VF) 1.65 #Estimated 4.95 gal.
 Purge Equipment Suction Sampling Equipment Bailer
 Did well dewater yes If yes, Time 11:31 Volume 2 gals.

Starting Time 11:36 Purging Flow Rate 1.7 gpm.
 Sampling Time 12:43

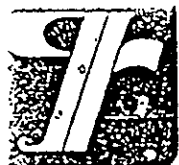
Time	pH	Conductivity	Temperature	Volume
<u>11:37</u>	<u>7.20</u>	<u>648</u>	<u>24.3</u>	<u>1.7</u>
<u>11:38</u>				<u>3.4</u>
<u>11:39</u>				<u>5.1</u>
<u>12:43</u>	<u>7.02</u>	<u>608</u>	<u>23.2</u>	<u>30</u>

Weather Conditions Sunny warm & clear
 Water Color: clear Odor: None
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>C-3</u>	<u>2x40ml NCA</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Cons BT/E</u>

Comments Recomend to 8.45' @ 12:43



WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 9-20-95
 ADDRESS 460 Grand Ave JOB # 5208.85
 CITY Oakland CA SS# 0006

Well ID C-4 Well Condition okay
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness Ø
 Total Depth 1980 ft
 Depth to Liquid 7.31 ft

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

of casing 3x 12.49 x 0.17 x(VF) 2.1 #Estimated 6.9 gal.
 Volume purge Volume

Purge Equipment Suction Sampling Equipment Bailer

Did well dewater NG If yes, Time _____ Volume _____

Starting Time 11:40 Purging Flow Rate 2.2 gpm.
 Sampling Time 11:40

Time	pH	Conductivity	Temperature	Volume
<u>11:41</u>	<u>7.20</u>	<u>501</u>	<u>22.6</u>	<u>2.2</u>
<u>11:42</u>	<u>7.10</u>	<u>487</u>	<u>21.5</u>	<u>4.4</u>
<u>11:43</u>	<u>7.09</u>	<u>490</u>	<u>21.5</u>	<u>6.6</u>
<u>11:46</u>	<u>7.09</u>	<u>489</u>	<u>21.5</u>	<u>7.0</u>

Weather Conditions Sunny warm & clear
 Water Color: Clear Odor: None
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>C-4</u>	<u>3x40ml NDA</u>	<u>Y</u>	<u>HCL</u>	<u>COBEL</u>	<u>Gas BTX</u>

Comments _____

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

Chevron Facility Number 0006 Formier Gulf
Facility Address 400 Grand Ave Oakland CA 94612
Consultant Project Number 520885
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Argy Leyton
(Phone) 510 551-7555 (Fax Number) 510 551-7888

Chevron Contact (Name) Mark Miller
(Phone) 842-8134
Laboratory Name GTCL
Laboratory Release Number 3971060
Samples Collected by (Name) Frank Cline
Collection Date 9-20-95
Signature [Signature]

DO NOT BILL
TB-LB ANALYSIS

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)	Analytes To Be Performed										Remarks	
								BTEX + TPH GAS (8020 + 8015)	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	01	2	W	TB		HCL	Y	+											Analyze
C-1	02	3		G	1130			+											
C-3	03	3			1243			+											
C-4	04	3			1146			+											
C-2	05	3			1250			+											

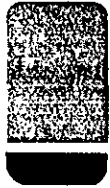
5°C

C5090248

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTCL</u>	Date/Time <u>9/20</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>GTCL</u>	Date/Time <u>9/21</u>
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTCL</u>	Date/Time <u>9/21 13:20</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>GTCL</u>	Date/Time <u>9/21/95</u>
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTCL</u>	Date/Time <u>9/22 0800</u>	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization <u>GTCL</u>	Date/Time <u>9/22/95 08:00</u>

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
6 Days
10 Days
As Contracted



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Northwest Region

4080-C Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 from inside California
(800) 423-7143 from outside California
(510) 825-0720 (FAX)

October 6, 1995

Argy Leyton
Gettler-Ryan, Inc.
6747 Sierra Ct.
Suite J
Dublin, CA 94568

RE: GTEL Client ID: GTR01CHV08
Login Number: C5090248
Project ID (number): 5208.85
Project ID (name): Chevron/#9-0006/460 Grand Ave., Oakland, CA

Dear Argy Leyton:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/21/95.

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.

GTEL is certified by the Department of Health Service under Certification Number E1075.

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.

A handwritten signature in cursive script that reads "Chip Poalinelli".

Chip Poalinelli
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
 Login Number: C5090248
 Project ID (number): 5208.85
 Project ID (name): Chevron/#9-0006/460 Grand Ave., Oakland, CA

Method: EPA8020/15
 Matrix: Aqueous

GTEL Sample Number	C5090248-01	C5090248-02	C5090248-03	C5090248-04
Client ID	TB-LB	C-1	C-3	C-4
Date Sampled	09/20/95	09/20/95	09/20/95	09/20/95
Date Analyzed	09/30/95	09/30/95	09/30/95	09/30/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50	ug/L	< 50	< 50	< 50	< 50
BFB (Surrogate)	--	%	84.3	84.0	85.5	83.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA8020/15:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
 Login Number: C5090248
 Project ID (number): 5208.85
 Project ID (name): Chevron/#9-0006/460 Grand Ave., Oakland, CA

Method: EPA8020/15
 Matrix: Aqueous

GTEL Sample Number	C5090248-05	--	--	--
Client ID	C-2	--	--	--
Date Sampled	09/20/95	--	--	--
Date Analyzed	10/01/95	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting		Concentration:		
	Limit	Units			
Benzene	0.5	ug/L	< 0.5	--	--
Toluene	0.5	ug/L	< 0.5	--	--
Ethylbenzene	0.5	ug/L	< 0.5	--	--
Xylenes (total)	0.5	ug/L	< 0.5	--	--
TPH as GAS	50	ug/L	< 50	--	--
BFB (Surrogate)	--	%	83.3	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA8020/15:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
 Login Number: C5090248
 Project ID (number): 5208.85
 Project ID (name): Chevron/#9-0006/460 Grand Ave., Oakland, CA

Volatile Organics
 Method: EPA8020/15
 Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA8020/15 Acceptability Limits:			45-125%	45-125%
--	09024801	TB-LB	85.2	84.3
--	09024802	C-1	85.8	84.0
--	09024803	C-3	87.4	85.5
--	09024804	C-4	84.6	83.7
--	09024805	C-2	83.9	83.3
G092995-1	BWG092995	Method Blank Water	93.3	86.9
G092995-3	MS09017601	Matrix Spike	88.4	89.1
G092995-4	MD09017601	Matrix Spike Dupli	86.1	87.8

Notes:

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

GTEL Client ID: GTR01CHV08
Login Number: C5090248
Project ID (number): 5208.85
Project ID (name): Chevron/#9-0006/460 Grand Ave., Oakland, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA8020/15
Matrix: Aqueous

Method Blank Results

QC Batch No: G092995-1
Date Analyzed: 29-SEP-95

Analyte	Method: EPA8020/15	Concentration: ug/L
Benzene	< 0.300	
Toluene	< 0.300	
Ethylbenzene	< 0.300	
Xylenes (Total)	< 0.500	
TPH as Gasoline	< 50.0	

Notes:

GTEL Client ID: GTR01CHV08

QUALITY CONTROL RESULTS

Login Number: C5090248

Project ID (number): 5208.85

Project ID (name): Chevron/#9-0006/460 Grand Ave., Oakland, CA

Volatile Organics

Method: EPA8020/15

Matrix: Aqueous

Notes:

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

GTEL Client ID: GTR01CHV08
Login Number: C5090248
Project ID (number): 5208.85
Project ID (name): Chevron/#9-0006/460 Grand Ave., Oakland, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA8020/15
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, OG, WC)
GC/MS Tune			NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

revised
10/17/95 dlr

ST 10 3615

FORMER GULF SERVICE STATION



55 AUG 29 PM 2: 64

August 25, 1995

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

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

**Re: Former Gulf Service Station #0006
460 Grand Avenue, Oakland, CA**

Dear Ms. Eberle:

This letter summarizes our telephone conversation today regarding the future actions to occur at the above referenced site.

All ground water monitor wells will be sampled for TPH-G and BTEX for two additional quarters. ✓
Chevron will also conduct a qualitative risk evaluation of the site. Included will be a quantitative analysis of the theoretical risk which may be present to future residential occupants of the site through exposure to volatilization of residual benzene concentrations in soil to indoor air. ✓ This analysis will utilize the Tier 2 equations from the ASTM Risk Based Corrective Action document. ✓

We expect that these will be the final activities required for site closure to be granted so long as the following conditions are met:

1. Concentrations of dissolved hydrocarbons observed in all wells shall remain statistically consistent with historical data. Should concentrations be inconsistent with previous observations at the site, Chevron will immediately resample the wells in question to evaluate the validity of the data. If both sets of data indicate a deviation from historical data, we will propose appropriate next actions. Appropriate next actions may include extending the length of the monitoring program, evaluating additional well placement, or evaluating the feasibility of active remediation technologies.
2. The results of the risk evaluation shall indicate that exposure to vapors from the residual benzene concentrations in soil do not pose a significant incremental cancer risk (e.g. 1 in a million) to future residential occupants of the site.

We will proceed with these activities as outlined above unless we hear differently from your office. If you have any questions or comments, please feel free to call me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

cc: Mr. Jon Robbins - CHVPK/V1156
Ms. B.C. Owen

Page 2
August 25, 1995
Former Gulf #0006

Mr. John C. Gibson
Adams & Gibson
160 Sansome Street, Suite 1200
San Francisco, CA 94104-3718