



November 8, 1995

Ms. Juliet Shin
Alameda County Health Care Services
Dept. of Environmental Health
1131 Harbor Bay Parkway, Suite 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: Former Chevron Service Station #9-0100
2428 Central Ave. Alameda, CA

Dear Ms. Shin,

Please find attached the third quarter 1995 semi-annual groundwater sampling report prepared by Gettler-Ryan Inc., dated October 19, 1995. This report provides the results of the sampling event performed September 15th, 1995.

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

Chevron will continue with the semi-annual monitoring schedule currently 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: Mr. Robert Stahl, Stahl-Woolridge Investment Properties
2428 Central Ave, Alameda, CA 94501
Mr. Carl A Pendleton, V.P. Bank of America
50 California St. San Fran. CA 94137
Mr. Kent W Peters, Asset Manager Bank of America
333 S. Beaudry Ave, 21st flr., L.A., CA 90017
Ms. Bette Owen, Chevron Property Development
File # 9-0100

NOV 16 1995
NOV 16 1995
NOV 16 1995



GETTLER - RYAN INC.

October 19, 1995

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
Job #5178.80

Dear Ms. Hodge:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On September 15, 1995, field personnel were on-site to gauge 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.

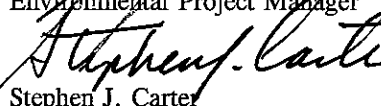
Static groundwater levels were measured on September 15, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

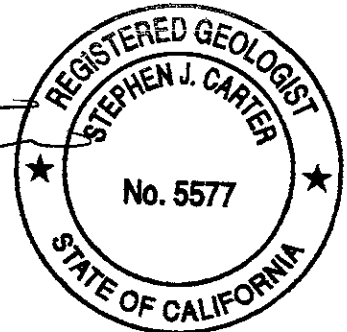
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Groundwater Technology Environmental Laboratories, Inc. Analytic results are presented in Table 1. The chain of custody document and laboratory analytic reports are attached. G-R is not responsible for laboratory omissions or errors.

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,

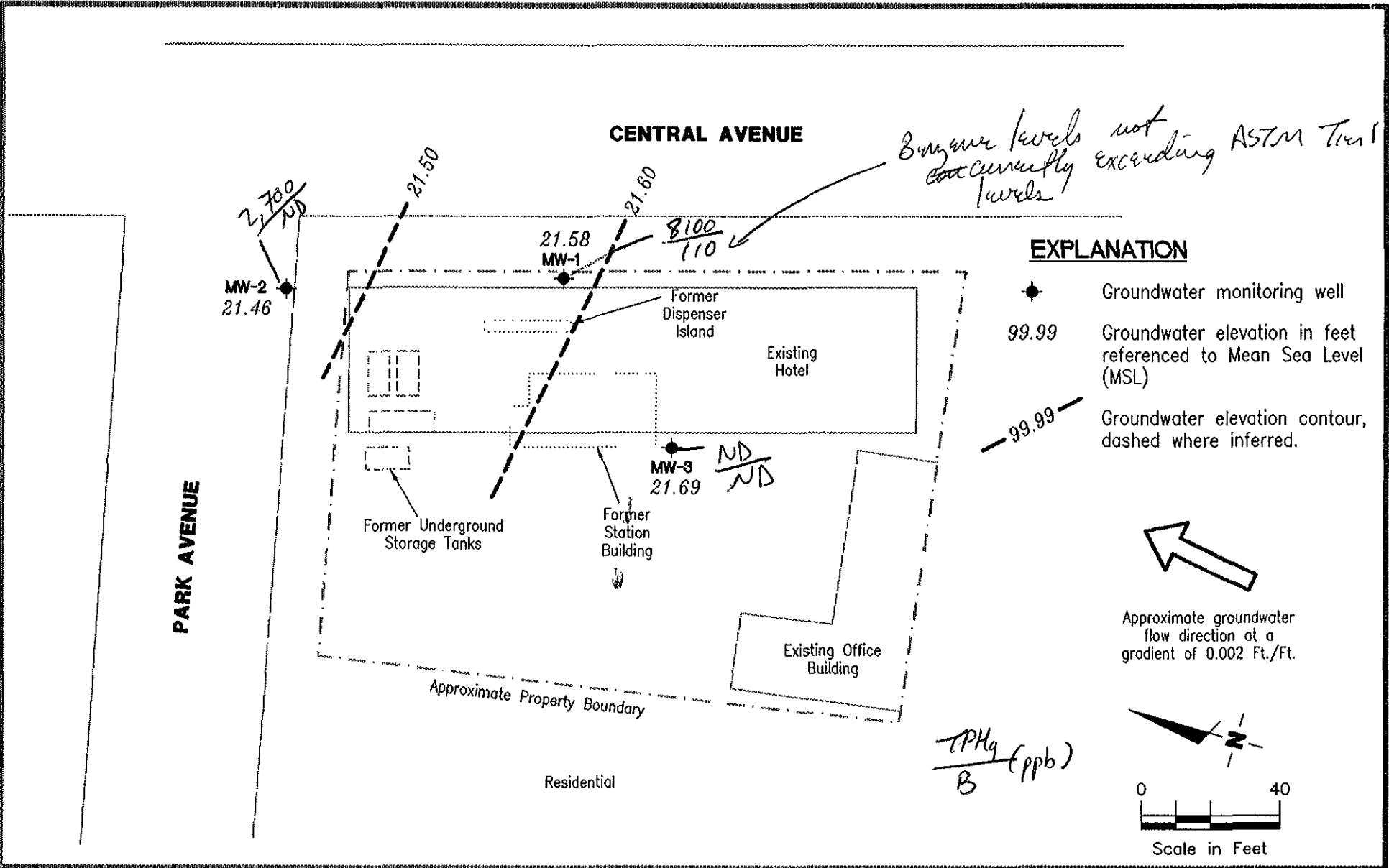

Argy Leyton
Environmental Project Manager


Stephen J. Carter
Senior Geologist, R.G. 5577



AML/SJC/dlh
5178.QML

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



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
5178.85

REVIEWED BY

[Signature]

DATE
September 15, 1995

REVISED DATE



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product		TPPH(G)	B	T	E	X
				Thickness*	Analytic Method					
<-----ppb----->										
MW-1/ 29.23	3/10/94	6.79	22.44	0	8015/8020 ^{1,2}	7,400	120	120	33	72
	6/21/94	7.74	21.49	0	8015/8020	5,300	140	60	21	43
	9/26/94	8.94	20.29	0	8015/8020	9,500	<250 ⁵	<250 ⁵	<250 ⁵	<250 ⁵
	12/16/94	6.57	22.66	0	8015/8020	4,700	<0.5	46	15	48
	3/22/95	5.16	24.07	0	8015/8020	8,800	55	14	11	<10
	6/13/95	5.84	23.39	0	8015/8020	2,100	130	29	9.5	15
	9/15/95	7.65	21.58	0	8015/8020	8,100	110	26	6.0	13
MW-2/ 29.18	3/10/94	6.94	22.24	0	8015/8020 ^{2,3}	6,400	<5	64	58	17
	6/21/94	7.89	21.29	0	8015/8020	1,800	23	12	6.9	32
	9/26/94	8.98	20.20	0	8015/8020	8,400	<100 ⁵	<100 ⁵	<100 ⁵	<100 ⁵
	12/16/94	6.65	22.53	0	8015/8020	2,300	<0.5	29	8.9	33
	3/22/95	5.15	24.03	0	8015/8020	1,500	0.6	4.5	<0.5	2.5
	6/13/95	6.06	23.12	0	8015/8020	880	<0.5	<0.5	2.2	10
	9/15/95	7.72	21.46	0	8015/8020	2,700	<0.5	17	4.8	13
MW-3/ 30.09	3/10/94	7.30	22.79	0	8015/8020 ^{2,4}	<50	<0.5	<0.5	<0.5	<0.5
	6/21/94	8.53	21.56	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/26/94	9.80	20.29	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/16/94	7.11	22.98	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/22/95	5.54	24.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/13/95	6.48	23.61	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/15/95	8.40	21.69	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
Trip Blank TB-LB	3/10/94	---	---	---	8015/8020	<50	<0.5	0.7	<0.5	<0.5
	6/21/94	---	---	---	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
	12/16/94	---	---	---	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
	6/13/95	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/15/95	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5



Table 1. Water Level Data and Groundwater Analytic 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
TPPH(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

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.

* Product thickness was measured on and after June 21, 1994 with a MMC Flexi-Dip interface probe.

¹ TPH(D) was also analyzed and detected at 840 ppb. However, chromatogram does not match typical diesel pattern.

² Organic lead and EDB were also analyzed but not detected at detection limits of 4 and 0.02 ppb, respectively.

³ TPH(D) was also analyzed and detected at 920 ppb. However, chromatogram does not match typical diesel pattern.

⁴ TPH(D) was also analyzed but not detected at detection limits of 50 ppb.

⁵ 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 9-15-95
 ADDRESS 2428 Central Ave JOB # 5178-85
 CITY Alameda SS# 9-0100

Well ID MW-1 Well Condition OK
 Well Location Description On the plot on Central Ave ~ 1' from sidewalk

Well Diameter 2 in Hydrocarbon Thickness 0
 Total Depth 24.7 ft
 Depth to Liquid 7.65 ft

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

3 # of casing Volume 17.05 x .17 x(VF) 0.9 #Estimated 8.7 gal.
 purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer
 Did well dewater no If yes, Time _____ Volume _____

Starting Time 1113 Purging Flow Rate 1.5 gpm.
 Sampling Time 1124

Time	pH	Conductivity	Temperature	Volume
<u>1115</u>	<u>7.5</u>	<u>260</u>	<u>65.1</u>	<u>3</u> gal
<u>1117</u>	<u>7.3</u>	<u>240</u>	<u>64.9</u>	<u>6</u>
<u>1119</u>	<u>7.3</u>	<u>250</u>	<u>64.6</u>	<u>9</u>
<u>1124</u>	<u>7.2</u>	<u>250</u>	<u>64.6</u>	<u>10</u>

Weather Conditions overcast
 Water Color: clear Odor: none/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</u>

Comments _____

WELL SAMPLING FIELD DATA SHEET

SAMPLER Guadalupe Sanchez DATE 9-15-95
 ADDRESS 2428 Central Ave JOB # 5178.85
 CITY Alameda SS# 9-0100

Well ID MW-2 Well Condition OK
 Well Location Description At corner of Central & Park Ave ~

Well Diameter _____ in
 Total Depth 23.75 ft
 Depth to Liquid 7.72 ft

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

3 # 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 1046 Purging Flow Rate 1.5 gpm.
 Sampling Time 1057

Time	pH	Conductivity	Temperature	Volume
<u>1048</u>	<u>6.9</u>	<u>670</u>	<u>68.9</u>	<u>3</u> gal
<u>1050</u>	<u>6.9</u>	<u>520</u>	<u>68.7</u>	<u>6</u>
<u>1052</u>	<u>6.8</u>	<u>480</u>	<u>68.3</u>	<u>9</u>
<u>1057</u>	<u>6.8</u>	<u>470</u>	<u>68.1</u>	<u>10</u> ↓

Weather Conditions Overcast
 Water Color: clear Odor: none
 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</u>

Comments Well Box needs to be lowered - tripping hazard

WELL SAMPLING FIELD DATA SHEET

SAMPLER Guadalupe Sanchez DATE 9-15-95
 ADDRESS 2428 Central Ave JOB # 5178.85
 CITY Alameda SS# 9-0100

Well ID MW-3 Well Condition OK
 Well Location Description Along side the Building (SW) ~ 4' from well on 2nd parking space
 Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 24.5 ft
 Depth to Liquid 8.40 ft

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

3 # of casing Volume 16.10 x 1.7 x(VF) 2.7 #Estimated 8.2 gal.
 Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater No If yes, Time _____ Volume _____

Starting Time 1026 Purging Flow Rate 1.5 gpm.
 Sampling Time 1037

Time	pH	Conductivity	Temperature	Volume
<u>1028</u>	<u>6.8</u>	<u>420</u>	<u>66.0</u>	<u>3 gal</u>
<u>1030</u>	<u>6.8</u>	<u>430</u>	<u>66.7</u>	<u>6 gal</u>
<u>1032</u>	<u>6.7</u>	<u>430</u>	<u>66.5</u>	<u>9 gal</u>
<u>1037</u>	<u>6.7</u>	<u>440</u>	<u>66.5</u>	<u>10 gal</u>

Weather Conditions Overcast
 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>GTEL</u>	<u>Gas BTEX</u>

Comments _____



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 2, 1995

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

RE: GTEL Client ID:	GTR01CHV08
Login Number:	C5090167
Project ID (number):	5178.85
Project ID (name):	Chevron/#9-0100/2428 Central Ave., Alameda, CA

Dear Argy Leyton:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/15/95.

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.


Chip Poaljinelli
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
 Login Number: C5090167
 Project ID (number): 5178.85
 Project ID (name): Chevron/#9-0100/2428 Central Ave., Alameda, CA

Method: EPA8020/15
 Matrix: Aqueous

GTEL Sample Number	C5090167-01	C5090167-02	C5090167-03	C5090167-04
Client ID	TB-LB	MW-3	MW-2	MW-1
Date Sampled	09/15/95	09/15/95	09/15/95	09/15/95
Date Analyzed	09/25/95	09/30/95	09/28/95	09/28/95
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	110
Toluene	0.5	ug/L	< 0.5	< 0.5	17.	26.
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	4.8	6.0
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	13.	13.
TPH as GAS	50.	ug/L	< 50.	< 50.	2700	8100
BFB (Surrogate)	--	%	83.5	113.	79.9	80.1

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
Login Number: C5090167
Project ID (number): 5178.85
Project ID (name): Chevron/#9-0100/2428 Central Ave., Alameda, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA8020/15
Matrix: Aqueous

Method Blank Results

QC Batch No: G092595-1
Date Analyzed: 25-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
 Login Number: C5090167
 Project ID (number): 5178.85
 Project ID (name): Chevron/#9-0100/2428 Central Ave., Alameda, CA

QUALITY CONTROL RESULTS

Volatile Organics
 Method: EPA8020/15
 Matrix: Aqueous

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:C5090155-04		MS ID:MS09015504		MSD ID:MD09015504						
Analysis Date: 24-SEP-95		26-SEP-95		26-SEP-95						
Units: ug/L	Sample	Spikes Added		MS	MS	MSD	MSD	Acceptability Limits		
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.5 (0.000)	20.0	20.0	18.6	93.0	19.1	95.5	2.7	34	57.3-130
Toluene	< 0.5 (0.000)	20.0	20.0	19.5	97.5	19.8	99.0	1.5	31	63-134
Ethylbenzene	< 0.5 (0.000)	20.0	20.0	19.4	97.0	19.3	96.5	0.50	38	59.3-137
Xylenes (Total)	< 0.5 (0.000)	60.0	60.0	56.7	94.5	56.3	93.8	0.70	31	59.3-144

Notes:

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

Client Number: GTR01CHV08
 Project ID: Chevron
 #9-0100
 2428 Central Ave.
 Alameda, CA
 Login Number: C5-09-0168

CONFORMANCE/NONCONFORMANCE SUMMARY

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

#	Conformance Item	VOA GC/MS	VOA GC	SV GC/MS	SV GC	Metals	Wet Chem
1	GC/MS Tune		NA		NA	NA	NA
2	Initial Calibration		X				
3	Continuing Calibration		X				
4	Surrogate Recovery		X			NA	NA
5	Holding Time		X				
6	Method Accuracy		X				
7	Method Precision		X				

8 Blank Contamination - List/ND (None Detected)/*(See Comments)

VOA: ND

SV:

Metals:

Wet Chem:

9 Comments: