Chevron

April 12, 1996

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

Marketing – Northwest Region
Phone 510 842 9500

Ms. Eva Chu
Alameda Co. Dept. of Environmental Health
1131 Harbor Bay Pkwy, 2nd Floor
Alameda, CA 94502-6577

Monitoring & Sampling Report
Former Chevron Service Station 9-7127
Interstate 580 & Grantline Rd.

Dear Ms. Chu :

The enclosed report from Blaine Tech Services dated April 2, 1996 documents the results of the February 27, 1996 monitoring and sampling event. Please refer to the enclosed report for information on the condition of the groundwater at the above referenced site. For your information, Phil Briggs will be the new Site Assessment & Remediation Engineer for this site. Please send all future correspondence to him. If you have any questions or comments, please call me at (510) 842-8752.

Sincerely,
Chevron Products Co.

Kenneth Kan
Engineer

LKAN/97127R07

Enclosure

cc : Mr. John Moody, RWQCB-Central Valley Region
3443 Routier Rd., Sacramento, CA 95827-3098

Mr. Ardavan Onsori (w/ Alameda Co. Env. Health letter dated March 29, 1996 & Pacific Env. Grp. letter dated March 28, 1996)
2021 Las Positas Ct., Ste. 153, Livermore, CA 94550

Mr. & Mrs. Joe Jess, Jess Ranch
Route 5, Box 704-A, Tracy, CA 95376

Ms. Bette Owen, Chevron Products Co.

Mr. Mark Sullivan, Pacific Environmental Group
2025 Gateway Place, Suite 440, San Jose, CA 95110

GETTLER-RYAN INC.

April 2, 1996 Job #5251.80

Mr. Kenneth Kan
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Chevron Service Station #9-7127
Interstate 580 and Grant Line Road
Tracy, California

Dear Mr. Kan:

This report documents the monthly monitoring and quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On February 27, 1996, field personnel were on-site to monitor and sample eight wells (MW-1 through MW-8) at the Former Chevron Service Station #9-7127 located at Interstate 580 and Grant Line Road in Tracy, California.

Static groundwater levels were measured on December 30, 1995, January 29, and February 27, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in well MW-1 during the January 29, 1996, visit. Static water level data and groundwater elevations are presented in Table 1. Potentiometric maps are included as Figures 1, 2 and 3.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets 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,

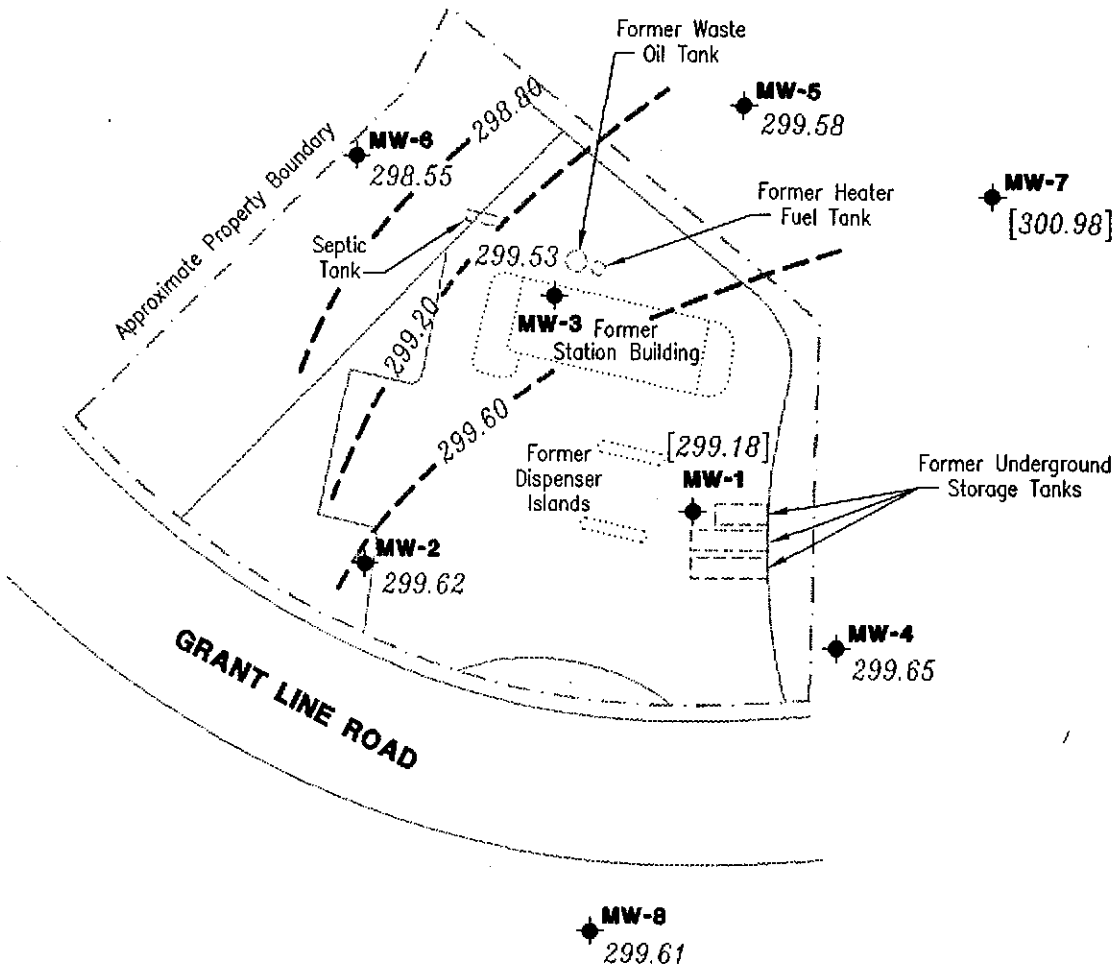
Deanna L. Harding
Project Coordinator

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

REGISTERED GEOLOGIST
Penny L. Silzer
No. 5523
STATE OF CALIFORNIA

DLH/PLS/dlh
5251.QML

Figure 1: Potentiometric Map - December 30, 1995
Figure 2: Potentiometric Map - January 29, 1996
Figure 3: Potentiometric Map - February 27, 1996
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.
- [99.99] — Not used in contouring

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

N

0 60

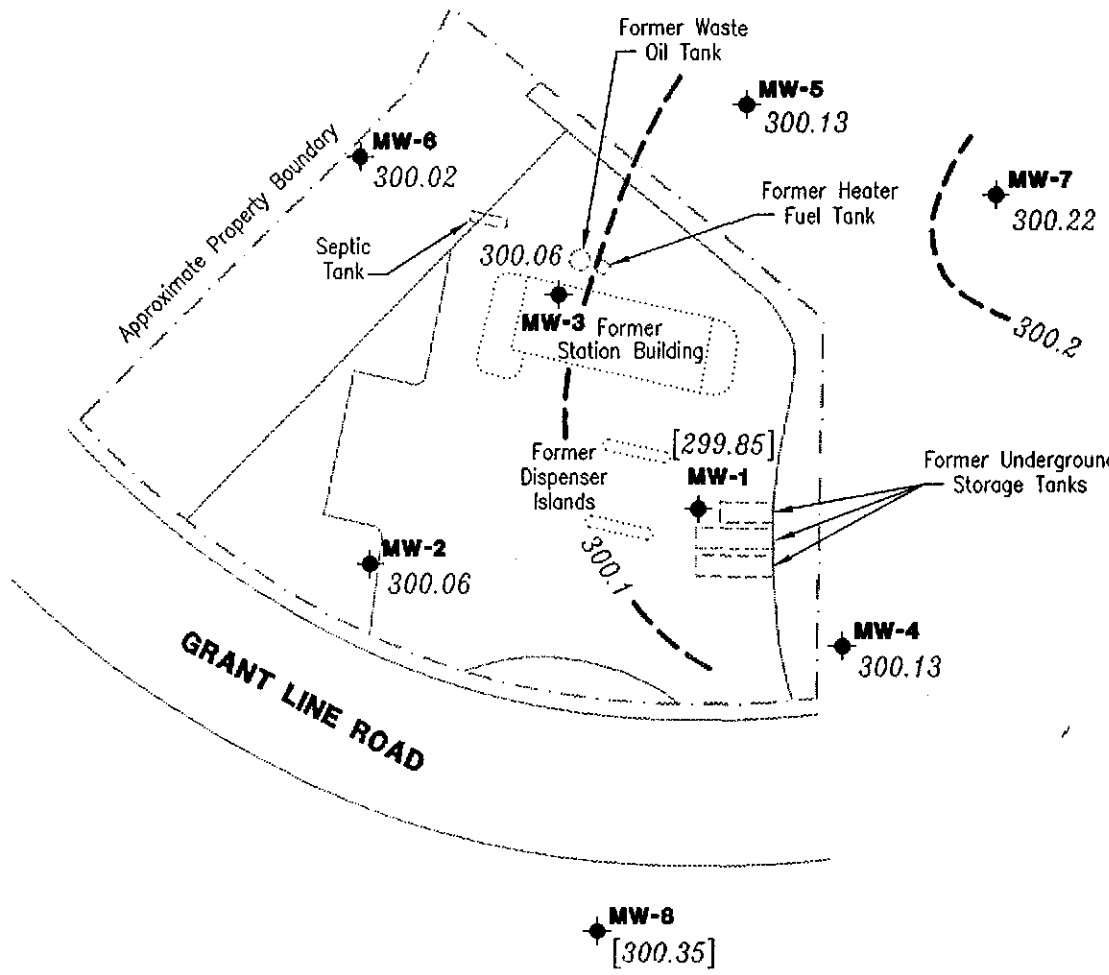
Scale in Feet

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

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-7127
Interstate 580 and Grant Line Road
Tracy, California

FIGURE 1

JOB NUMBER 5251
REVIEWED BY
DATE December 30, 1995
REVISED DATE



EXPLANATION

- ✦ Groundwater monitoring well
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 Groundwater elevation contour, dashed where inferred.
- [99.99] Not used in contouring

Approximate groundwater flow direction at a gradient of 0.001 Ft./Ft.

N

0 60

Scale in Feet

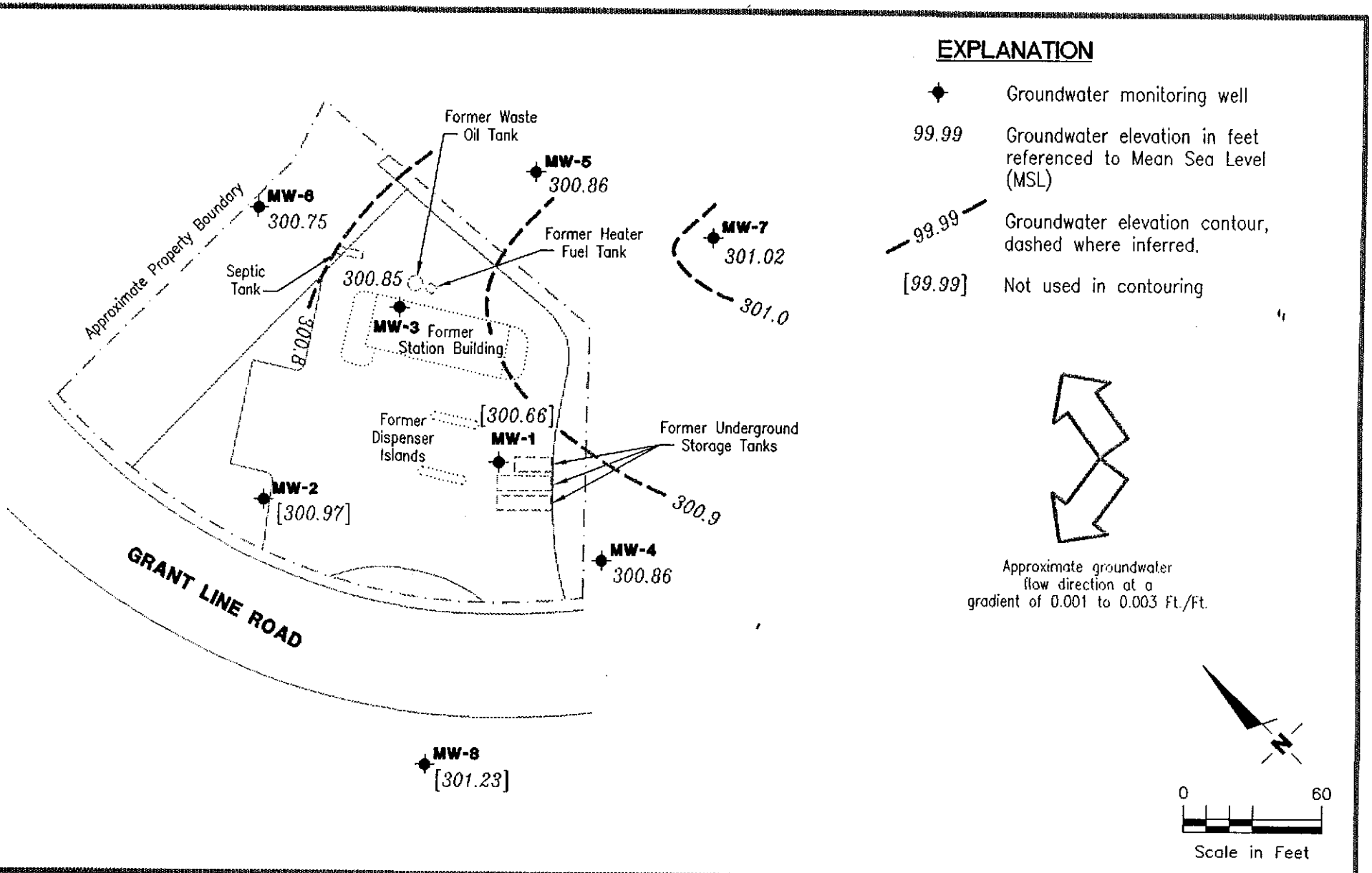
Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-7127
Interstate 580 and Grant Line Road
Tracy, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5251		January 29, 1996	



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

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-7127
Interstate 580 and Grant Line Road
Tracy, California

FIGURE
3

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5251		February 27, 1996	

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-1/ 329.17	2/15/94	29.77	299.40	0	99,000	20,000	24,000	2,000	9,800	---
	4/21/94	29.85	299.32	0	---	---	---	---	---	---
	6/1/94	29.92	299.25	0	56,000	12,000	15,000	1,100	5,800	---
	6/28/94	30.15	299.02	0	---	---	---	---	---	---
	7/19/94	20.30	308.87	0	---	---	---	---	---	---
	9/2/94	30.61	298.96[1]	0.5	---	---	---	---	---	---
	9/12/94	31.66	298.04[1]	0.66	---	---	---	---	---	---
	10/12/94	31.70	298.70[1]	1.54	---	---	---	---	---	---
	11/30/94	29.95	299.84[1]	0.77	---	---	---	---	---	---
	3/9/95	29.54	299.88	0.31	---	---	---	---	---	---
	4/18/95	29.01	300.16	0	---	---	---	---	---	---
	5/17/95	29.09	300.08	0	130,000	22,000	30,000	2,000	10,000	---
	6/7/95	29.24	299.93	0	---	---	---	---	---	---
	7/21/95	29.66	299.51	0	---	---	---	---	---	---
	8/15/95	29.87	299.30	0	41,000	9,400	12,000	1,400	7,700	---
	9/7/95	29.85	299.32	0	---	---	---	---	---	---
	10/9/95	30.01	299.16	0	---	---	---	---	---	---
	11/15/95	29.88	299.29	0	68,000	15,000	9,600	1,100	5,500	<2,000
	12/30/95	**29.99**	**299.18**	**0**	---	---	---	---	---	---
	1/29/96	**29.32**	**299.85**	**Sheen**	---	---	---	---	---	---
	2/27/96	**28.51**	**300.66**	**0**	**520**	**48**	**71**	**<0.5**	**27**	**28**
MW-2/ 327.22	2/15/94	27.09	300.13	0	83	21	6	1	3	---
	4/21/94	27.81	299.41	0	---	---	---	---	---	---
	6/1/94	27.98	299.24	0	<50	1.3	0.5	<0.5	<0.5	---
	6/28/94	28.17	299.05	0	---	---	---	---	---	---
	7/19/94	28.35	298.87	0	---	---	---	---	---	---
	9/2/94	28.52	298.70	0	82	13	16	3.6	14	---
	9/12/94	28.56	298.66	0	---	---	---	---	---	---
	10/12/94	28.62	298.60	0	---	---	---	---	---	---
	11/30/94	28.38	298.84	0	<50	3.6	4.5	1.0	4.5	---
	3/9/95	27.41	299.81	0	---	---	---	---	---	---
	4/18/95	26.79	300.43	0	---	---	---	---	---	---
	5/17/95	26.95	300.27	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/7/95	27.06	300.16	0	---	---	---	---	---	---
	7/21/95	27.47	299.75	0	---	---	---	---	---	---
	8/15/95	27.57	299.65	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/7/95	28.69	298.53	0	---	---	---	---	---	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-2	10/9/95	27.85	299.37	0	---	---	---	---	---	---
(cont)	11/15/95	27.91	299.31	0	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/30/95	**27.60**	**299.62**	**0**	---	---	---	---	---	---
	1/29/96	**27.16**	**300.06**	**0**	---	---	---	---	---	---
	2/27/96	**26.25**	**300.97**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-3/										
329.28	2/15/94	29.87	299.41	0	23,000	11,000	1,700	540	1,000	---
	4/21/94	29.96	299.32	0	---	---	---	---	---	---
	6/1/94	30.11	299.17	0	27,000	12,000	2,600	600	2,200	---
	6/28/94	30.31	298.97	0	---	---	---	---	---	---
	7/19/94	30.50	298.78	0	---	---	---	---	---	---
	9/2/94	30.61	298.67	0	34,000	16,000	4,100	770	3,000	---
	9/12/94	30.65	298.63	0	---	---	---	---	---	---
	10/12/94	30.74	298.54	0	---	---	---	---	---	---
	11/30/94	30.44	298.84	0	33,000	16,000	3,000	740	2,400	---
	3/9/95	29.53	299.75	0	---	---	---	---	---	---
	4/18/95	28.97	300.31	0	---	---	---	---	---	---
	5/17/95	29.19	300.09	0	27,000	10,000	760	490	1,000	---
	6/7/95	29.24	300.04	0	---	---	---	---	---	---
	7/21/95	29.70	299.58	0	---	---	---	---	---	---
	8/15/95	29.78	299.50	0	39,000[3]	13,000	2,900	700	1,700	---
	9/7/95	29.86	299.42	0	---	---	---	---	---	---
	10/9/95	30.02	299.26	0	---	---	---	---	---	---
	11/15/95	30.06	299.22	0	21,000	8,000	2,900	430	1,500	<1,000
	12/30/95	**29.75**	**299.53**	**0**	---	---	---	---	---	---
	1/29/96	**29.22**	**300.06**	**0**	---	---	---	---	---	---
	2/27/96	**28.43**	**300.85**	**0**	**<2,500**	**5,000**	**500**	**220**	**130**	**710**
MW-4/	5/21/93	---	---	---	<50	12	2	<0.5	1	---
	11/5/93	---	---	---	300	56	10	0.8	3	---
329.44	2/15/94	29.90	299.54	0	260	47	12	2	4	---
	4/21/94	29.99	299.45	0	---	---	---	---	---	---
	6/1/94	30.14	299.30	0	860	200	23	2.8	9.6	---
	6/28/94	30.32	299.12	0	---	---	---	---	---	---
	7/19/94	30.50	298.94	0	---	---	---	---	---	---
	9/2/94	30.62	298.82	0	1,700	250	27	6.4	15	---
	9/12/94	30.69	298.75	0	---	---	---	---	---	---
	10/12/94	30.75	298.69	0	---	---	---	---	---	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-4	11/30/94	30.51	298.93	0	830	350	29	8.1	22	—
(cont)	3/9/95	29.61	299.83	0	—	—	—	—	—	—
	4/18/95	29.08	300.36	0	—	—	—	—	—	—
	5/17/95	29.22	300.22	0	470	200	2.2	0.9	2.1	—
	6/7/95	29.27	300.17	0	—	—	—	—	—	—
	7/21/95	29.72	299.72	0	—	—	—	—	—	—
	8/15/95	29.77	299.67	0	100	4.2	0.8	<0.5	<0.5	—
	9/7/95	29.85	299.59	0	—	—	—	—	—	—
	10/9/95	30.02	299.42	0	—	—	—	—	—	—
	11/15/95	30.05	299.39	0	270	94	9.4	0.77	4.3	27
	12/30/95	**29.79**	**299.65**	**0**	—	—	—	—	—	—
	1/29/96	**29.31**	**300.13**	**0**	—	—	—	—	—	—
	2/27/96	**28.58**	**300.86**	**0**	**690**	**100**	**15**	**<0.5**	**2.0**	**79**
MW-5	5/25/93	—	—	—	<50	<0.5	<0.5	<0.5	0.9	—
	11/5/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
312.88	2/15/94	25.10	287.78	0	<50	<0.5	1	<0.5	1	—
	4/21/94	13.21	299.67	0	—	—	—	—	—	—
	6/1/94	13.39	299.49	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/28/94	13.73	299.15	0	—	—	—	—	—	—
	7/19/94	13.80	299.08	0	—	—	—	—	—	—
	9/2/94	14.02	298.86	0	<50	3.2	1.8	<0.5	2.1	—
	9/12/94	14.03	298.85	0	—	—	—	—	—	—
	10/12/94	14.15	298.73	0	—	—	—	—	—	—
	11/30/94	13.91	298.97	0	<50[2]	<0.5[2]	<0.5[2]	<0.5[2]	<0.5[2]	—
	3/9/95	12.97	299.91	0	—	—	—	—	—	—
	4/18/95	12.48	300.40	0	—	—	—	—	—	—
	5/17/95	12.71	300.17	0	150	1.0	<0.5	<0.5	<0.5	—
	6/7/95	12.85	300.03	0	—	—	—	—	—	—
	7/21/95	13.30	299.58	0	—	—	—	—	—	—
	8/15/95	13.41	299.47	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/7/95	13.42	299.46	0	—	—	—	—	—	—
	10/9/95	13.61	299.27	0	—	—	—	—	—	—
	11/15/95	13.63	299.25	0	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/30/95	**13.30**	**299.58**	**0**	—	—	—	—	—	—
	1/29/96	**12.75**	**300.13**	**0**	—	—	—	—	—	—
	2/27/96	**12.02**	**300.86**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-6										
312.20	12/30/95	13.65	298.55	0	---	---	---	---	---	---
	1/29/96	12.18	300.02	0	---	---	---	---	---	---
	2/27/96	11.45	300.75	0	70	1.1	<0.5	<0.5	<0.5	<5.0
MW-7										
313.36	12/30/95	12.38	300.98	0	---	---	---	---	---	---
	1/29/96	13.14	300.22	0	---	---	---	---	---	---
	2/27/96	12.34	301.02	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-8										
329.91	12/30/95	30.30	299.61	0	---	---	---	---	---	---
	1/29/96	29.56	300.35	0	---	---	---	---	---	---
	2/27/96	28.68	301.23	0	<50	<0.5	<0.5	<0.5	<5.0	<5.0
Supply Well	11/15/95	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<5.0
Trip Blank										
TB-LB	2/15/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/1/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/2/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/30/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	5/17/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	8/15/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/15/95	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	2/27/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Bailer Blank										
BB	2/15/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, 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 analyzed/Not applicable

ANALYTICAL METHODS:

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

NOTES:

All top of casing elevations were surveyed by Tronoff Land Surveying, Davis, California on November 2, 1993.

Water level elevation data and laboratory analytical results prior to May 17, 1995, were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

[1] GWE corrected for the presence of free-phase hydrocarbons using: GWE = [(TOC-DTW) + (0.8)(Product Thickness)]. 0.8 is the assumed specific gravity of free-phase hydrocarbons.

[2] Estimated concentration. TFT surrogate recovery demonstrated sample specific matrix effect. Benzene and Toluene are estimated values due to low recovery of (TFT) surrogate. The (BFB) surrogate had acceptable recovery. Low surrogate recovery can be attributed to sample effervescence (GTEL).

[3] Laboratory reported data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.

5251.tqm

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 pevention 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: F. Cline Cuyle Sanchez DATE: 2-27-96

ADDRESS: I-580- Grant line Rd JOB #: 525185

CITY: Tracy CA SS#: 9-7127

Well ID: MW-1 Well Condition: Okay

Well Location Description:

Well Diameter: 4 in Hydrocarbon Thickness: 0

Total Depth: 40' ft

Depth to Liquid: 28.51 ft

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

# of casing Volume: 3/4 11.49 x 0.66 x(VF) 4) #Estimated purge Volume: 22.7 gal.

Purge Equipment: Stack Sampling Equipment: Bailer

Did well dewater: NO If yes, Time ___ Volume ___

Starting Time: 1513 Purging Flow Rate: 1.) gpm.

Sampling Time: 1531

Time	pH	Conductivity	Temperature	Volume
1518	6.29	[illegible]	15.7	7.5
1523	6.75	729	15.6	15.6
1528	6.75	100	16.1	22.5
15.34	[illegible]	[illegible]	[illegible]	23.6

Weather Conditions: Rainy Cold

Water Color: Clear Odor: Strong

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-1	3x40ml VOA	Y	HCL	COTEL	GasBTEX MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline Cinde Sanchez DATE: 2-27-96

ADDRESS: 7-580- Grantline Rd JOB #: 525.85

CITY: Tracy CA SS#: 9-7127

Well ID: MW-2 Well Condition: Ocal

Well Location Description:

Well Diameter: 2" in Hydrocarbon Thickness: 0

Total Depth: 38 ft

Depth to Liquid: 26.25 ft

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

# of casing Volume: 3f × 11.75 × 0.17 x(VF) 1.99 #Estimated purge Volume: 5.1 gal.

Purge Equipment: Stack Sampling Equipment: Bailer

Did well dewater: No If yes, Time: ___ Volume: ___

Starting Time: 14:31 14:23 Purging Flow Rate: 1 gpm.

Sampling Time: 14:31

Time	pH	Conductivity	Temperature	Volume
14:25	6.88	413	19.1	2
14:27	6.90	427	20.0	4
14:29	6.92	421	19.0	6
14:30	6.92	422	19.1	6.5

Weather Conditions: Rainy cold

Water Color: Clear Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-2	3x40ml VOA	Y	HCL	CONTRL	GASOLINE RANGE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline, Cinde Sanchez DATE: 2-27-96

ADDRESS: I-580- Grant Line Rd JOB #: 525185

CITY: Tracy CA SS#: 9-7127

Well ID: MW-3 Well Condition: okay

Well Location Description:

Well Diameter: 2" in Hydrocarbon Thickness: 0

Total Depth: 40 ft

Depth to Liquid: 28.43 ft

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

# of casing Volume: 3x 11.57 x 0.17 x(VF) 1.9 #Estimated purge Volume: 5.5 gal.

Purge Equipment: Stark Sampling Equipment: Bailer

Did well dewater: No If yes, Time: ____ Volume: ____

Starting Time: 14:56

Sampling Time: 1505

Purging Flow Rate: 1 gpm.

Time	pH	Conductivity	Temperature	Volume
14:58	6.10	482	16.9	2
1500	6.91	442	18.2	4
1502	6.96	484	18.1	6
1505	6.94	490	18.2	7

Weather Conditions: Rainy cold

Water Color: Clear Odor: Mild

Sediment Description: NA

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-3	3x40ml VOA	Y	HCL	CoTEL	Cons BTEX MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline, Cuyle Sanchez DATE: 2-27-96

ADDRESS: I-580- Grant line Rd JOB #: 5251.85

CITY: Tracy CA SS#: 9-7127

Well ID: MW-4 Well Condition: okay

Well Location Description:

Well Diameter: 2" in Hydrocarbon Thickness: 0

Total Depth: 40 ft

Depth to Liquid: 28.55 ft

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

\# of casing Volume: 3 11.42 x 0.17 x(VF) 1.9 #Estimated purge Volume: 5.8 gal.

Purge Equipment: Stack Sampling Equipment: Bailer

Did well dewater: No If yes, Time ___ Volume ___

Starting Time: ~~14:38~~ 1439 Purging Flow Rate: 1 gpm.

Sampling Time: 14:48

Time	pH	Conductivity	Temperature	Volume
14:41	6.80	475	17.7	2
~~14:44~~ 43	7.02	513	18.6	4
~~14:47~~ 45	7.03	517	18.6	6
~~14:50~~ 48	7.02	515		7

Weather Conditions: Rainy cold

Water Color: Clear Odor: Mild

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-4	3x40ml VOA	Y	HCL	GTEL	Gas BTEX MTBE

Comments:

-WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline Cuipe Sanchez
DATE: 2-27-96

ADDRESS: I-580- Grant line Rd
JOB #: 525185

CITY: Tracy CA
SS#: 9-7127

Well ID: MW-5
Well Condition: OK

Well Location Description:

Well Diameter: 2" in
Hydrocarbon Thickness: 0

Total Depth: 28.0 ft
Depth to Liquid: 12.02 ft

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

3 # of casing Volume: 15.98 x .17 x(VF) 2.7 #Estimated purge Volume: 8-1 gal.

Purge Equipment: Bailer
Sampling Equipment: Disposable Bailer

Did well dewater: no
If yes, Time: ____ Volume: ____

Starting Time: 1523
Sampling Time: 1533

Purging Flow Rate: ____ gpm.

Time	pH	Conductivity	Temperature	Volume
1527	7.17	577	16.1	3 gal
1530	7.20	582	16.7	6 "
1533	7.22	587	16.8	9 "

Weather Conditions: Rainy Cold
Water Color: clear
Odor: none
Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-5	3x40ml VOA	Y	HCL	CoTRL	GasBTXE MTBE

Comments: ____

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline, Cuyle Sanchez | DATE: 2-27-96

ADDRESS: J-580- Grantline Rd | JOB #: 525185

CITY: Tracy CA | SS#: 9-7127

Well ID: MW-6 | Well Condition: Ok

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: ⌀

Total Depth: 28.8 ft

Depth to Liquid: 11.45 ft

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

3 # of casing Volume: 17.35 x .17 x(VF) 2.9 #Estimated purge Volume: 8-7 gal.

Purge Equipment: Bailer | Sampling Equipment: Disposable Bailer

Did well dewater: No | If yes, Time: ___ | Volume:

Starting Time: 1437

Sampling Time: 1447

Purging Flow Rate: ___ gpm.

Time	pH	Conductivity	Temperature	Volume
14:40	6.68	524	13.8	3 gal
14:43	6.53	518	14.9	6
14:47	6.57	515	14.7	9

Weather Conditions: Rainy Cold

Water Color: clear | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW- 6	3x40mlVOA	Y	HCL	CoTRL	Gasoline + MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline, Lupe Sanchez   DATE: 2-27-96

ADDRESS: I-580- Grant line Rd   JOB #: 525185

CITY: Tracy CA   SS#: 9-7127

Well ID: MW-7   Well Condition: ok

Well Location Description:

Well Diameter: 2" in   Hydrocarbon Thickness: 0

Total Depth: 28.2 ft

Depth to Liquid: 12.34 ft

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

3 # of casing Volume: 15.86 x .17 x(VF) 2.7 #Estimated purge Volume: 8.1 gal.

Purge Equipment: Bailer   Sampling Equipment: Disposable Bailer

Did well dewater: No   If yes, Time ___ Volume ___

Starting Time: 1502   Purging Flow Rate: — gpm.

Sampling Time: 1513

Time	pH	Conductivity	Temperature	Volume
1506	7.19	509	16.4	3 gal
1509	7.26	572	16.7	6
1513	7.28	578	16.7	9

Weather Conditions: Raining Cold

Water Color: Clear   Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-7	3x40ml VOA	Y	HCL	GTEL	GasBTXE MTBE

Comments

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline Cuipe Sanchez DATE 2-27-96

ADDRESS I-580- Grant line Rd JOB # 525185

CITY Tracy CA SS# 9-7127

Well ID MW-8 Well Condition OK

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 41.9 ft

Depth to Liquid 28.68 ft

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

3 # of casing Volume 13.22 x .17 x(VF) 2.24 #Estimated purge Volume 6.7 gal.

Purge Equipment Stack Sampling Equipment Bailer

Did well dewater No If yes, Time ___ Volume ___

Starting Time 2:01 Purging Flow Rate 1.1 gpm.

Sampling Time 2:12

Time	pH	Conductivity	Temperature	Volume
2:06	6.73	270	19.8	2.2
2:08	7.18	279	18.4	4.4
2:10	7.20	275	18.3	6.6
2:12	7.21	275	18.4	7.0

Weather Conditions Rainy Cold

Water Color: Clear Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-8	3 x 40ml VOA	Y	HCL	CONTEST	GasBTEX MTBE

Comments

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

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

Chevron Facility Number: 9-7127
Facility Address: I-580 & Grant line . Tracy CA
Consultant Project Number: 5251.85
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): Kenneth Kan
(Phone): 842-8752
Laboratory Name: GTEL
Laboratory Release Number: 345204()
Samples Collected by (Name): F.C.Line
Collection Date: 2-27-96
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)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015) (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)	DO NOT BILL TB-LB ANALYSIS / Remarks
TB-LB	1	2	W	TB	-	HCL	Y	X								
MW-8	2	3		G	1412			X								
MW-6	3				1447			X								
MW-7	4				1513			X								
MW-5	5				1533			X								
MW-2	6				1431			X								
MW-4	7				1448			X								
MW-3	8				1505			X								
MW-1	9	↓	↓	↓	1531	↓	↓	X								1° Standard
																70265/7676

W6004052?

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R	2-28-96	D. Harding	G-R	2/28/96 8:00
D. Harding	G-R	2/28/96 11:00		GTEL	2/28/96 1100
	GTEL	2/28/96 16:30			2-29-96 0830

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

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

March 8, 1996

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

RE: GTEL Client ID: GTR01CHV08
Login Number: W6020527
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 02/29/96.

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 Ward, Project Coordinator for

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6020527
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	W6020527-01	W6020527-02	W6020527-03	W6020527-04
Client ID	TB-LB	MW-8	MW-6	MW-7
Date Sampled		02/27/96	02/27/96	02/27/96
Date Analyzed	03/07/96	03/07/96	03/07/96	03/07/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	0.5	ug/L	< 0.5	< 0.5	1.1	< 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
BTEX (total)	--	ug/L	--	--	1.1	--
TPH as Gasoline	50	ug/L	< 50	< 50	70	< 50

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.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6020527
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	W6020527-05	W6020527-06	W6020527-07	W6020527-08
Client ID	MW-5	MW-2	MW-4	MW-3
Date Sampled	02/27/96	02/27/96	02/27/96	02/27/96
Date Analyzed	03/07/96	03/07/96	03/07/96	03/07/96
Dilution Factor	1.00	1.00	1.00	50.0

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 5.0	< 5.0	79.	710
Benzene	0.5	ug/L	< 0.5	< 0.5	100	5000
Toluene	0.5	ug/L	< 0.5	< 0.5	15.	500
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	220
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	2.0	130
BTEX (total)	--	ug/L	--	--	120	5800
TPH as Gasoline	50	ug/L	< 50	< 50	690	< 2500

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.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6020527
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	W6020527-09	--	--	--
Client ID	MW-1	--	--	--
Date Sampled	02/27/96	--	--	--
Date Analyzed	03/08/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	28.	--	--	--
Benzene	0.5	ug/L	48.	--	--	--
Toluene	0.5	ug/L	71.	--	--	--
Ethylbenzene	0.5	ug/L	< 0.5	--	--	--
Xylenes (total)	0.5	ug/L	27.	--	--	--
BTEX (total)	--	ug/L	150	--	--	--
TPH as Gasoline	50	ug/L	520	--	--	--

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: W6020527 Volatile Organics
Project ID (number): 5251.85 Method: EPA 8020
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/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: W6020527 Volatile Organics
Project ID (number): 5251.85 Method: EPA 8020
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020		Acceptability Limits:	43-136%
030796GC10-1	BW03079610	Method Blank Water	74.6
030796GC10-4	CV0307962010	Calibration Verifi	114.
030796GC10-7	DP02052804	Duplicate	66.5
030796GC10-9	MS02052802	Matrix Spike	110.
--	02052701	TB-LB	63.7
--	02052702	MW-8	63.9
--	02052703	MW-6	68.6
--	02052704	MW-7	63.3
--	02052705	MW-5	61.7
--	02052706	MW-2	63.0
--	02052707	MW-4	79.9
--	02052708	MW-3	127.
--	02052709	MW-1	94.1

Notes:

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

Project ID (Number): 5251.85
Project ID (Name): Chevron SS #9-7127
I-580 @ Grant Line Rd.
Tracy, CA
Work Order Number: W6-02-0527
Date Reported: 03-08-96

METHOD BLANK REPORT

Volatile Organics in Water
EPA Method 8020

Date of Analysis: 07-Mar-96 QC Batch No: 030796GC10-1

Analyte	Concentration, ug/L
MTBE	<5.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylene (total)	<0.5
TPH as Gasoline	<50

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6020527 Volatile Organics
Project ID (number): 5251.85 Method: EPA 8020
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA 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:030796GC10-4			
Benzene	20.0	19.7	98.5	77-123%
Toluene	20.0	19.1	95.5	77.5-122.5%
Ethylbenzene	20.0	15.3	76.5	63-137%
Xylenes (Total)	60.0	58.8	98.0	85-115%
TPH as Gasoline	500	509.	102.	80-120%

Notes:
QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6020527 Volatile Organics
Project ID (number): 5251.85 Method: EPA 8020
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020 Units: ug/L	QC Batch: 030796GC10-7	GTEL Sample ID: W6020528-04		Client ID: Batch QC
MTBE	< 10.0	< 10.0	NA	20
Benzene	< 0.500	< 0.500	NA	23.9
Toluene	< 1.00	< 1.00	NA	27.2
Ethylbenzene	< 1.00	< 1.00	NA	21.6
Xylenes (Total)	< 2.00	< 2.00	NA	22.0
TPH as Gasoline	< 100.	< 100.	NA	20

Notes:
NA - The concentration of the analyte is less than the reporting limit.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6020527 Volatile Organics
Project ID (number): 5251.85 Method: EPA 8020
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6020528-02		MS ID:MS02052802			
Analysis Date: 07-MAR-96			07-MAR-96		
Units: ug/L	Sample	Spike	MS	MS	Acceptability Limits
Analyte	Conc.	Added	Conc.	% Rec.	%Rec.
Benzene	< 0.5 (0.000)	20.0	18.6	93.0	67-110
Toluene	< 0.5 (0.000)	20.0	19.1	95.5	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	14.7	73.5	65-120
Xylenes (Total)	< 0.5 (0.000)	60.0	59.3	98.8	62-119

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