Chevron

November 4, 1996

Chevron 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 County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

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

Dear Ms. Chu:

Enclosed is the Second and Third Quarter Groundwater Monitoring reports for 1996, prepared by our consultant Gettler-Ryan Inc. for the above noted facility. I apologize for the delay in submitting the reports and future reports will be submitted in a timely manner. Ground water samples were analyzed for TPH-g, BTEX and MtBE constituents.

Of the eight wells sampled, four wells were below method detection levels for all constituents in each of the quarters; constituents detected in three wells were similar as in previous sampling events and the constituent amounts declined in one well from the fourth quarter sampling event. Groundwater depth in the second quarter varied from 11.45 to 28.47 feet below grade with a direction of flow to the east northeast. In the third quarter, the groundwater depth varied from 11.95 to 28.92 feet below grade with a direction of flow to the northeast. Groundwater levels were taken each month and the gradient and direction of flow was similar as to the quarterly sampling events.

Chevron will continue to sample the wells quarterly. For your information, Kenneth Kan has been reassigned to other projects within the site assessment group, and I have taken over the responsibility of this site. If you have any questions or comments call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Ms. Bette Owen, Chevron

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

Mr. Ardavan Onsori
29310 Union City Blvd.
Union City, CA 94587

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

Mr. Ross Tinline
Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110 (less analytical data)

GETTLER-RYAN INC.

September 30, 1996 Job #5251.80

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

May/Nov Samples wells MW-1, 3, 4, 6, 7
May 6 annually MW-2, 5, 7, 8

Re: Third Quarter Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-7127
Interstate 580 and Grant Line Road
Tracy, California

Dear Mr. Briggs:

This report documents the monthly monitoring and quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On August 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 June 19, July 15, and August 27, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. 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 - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by NEI/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,

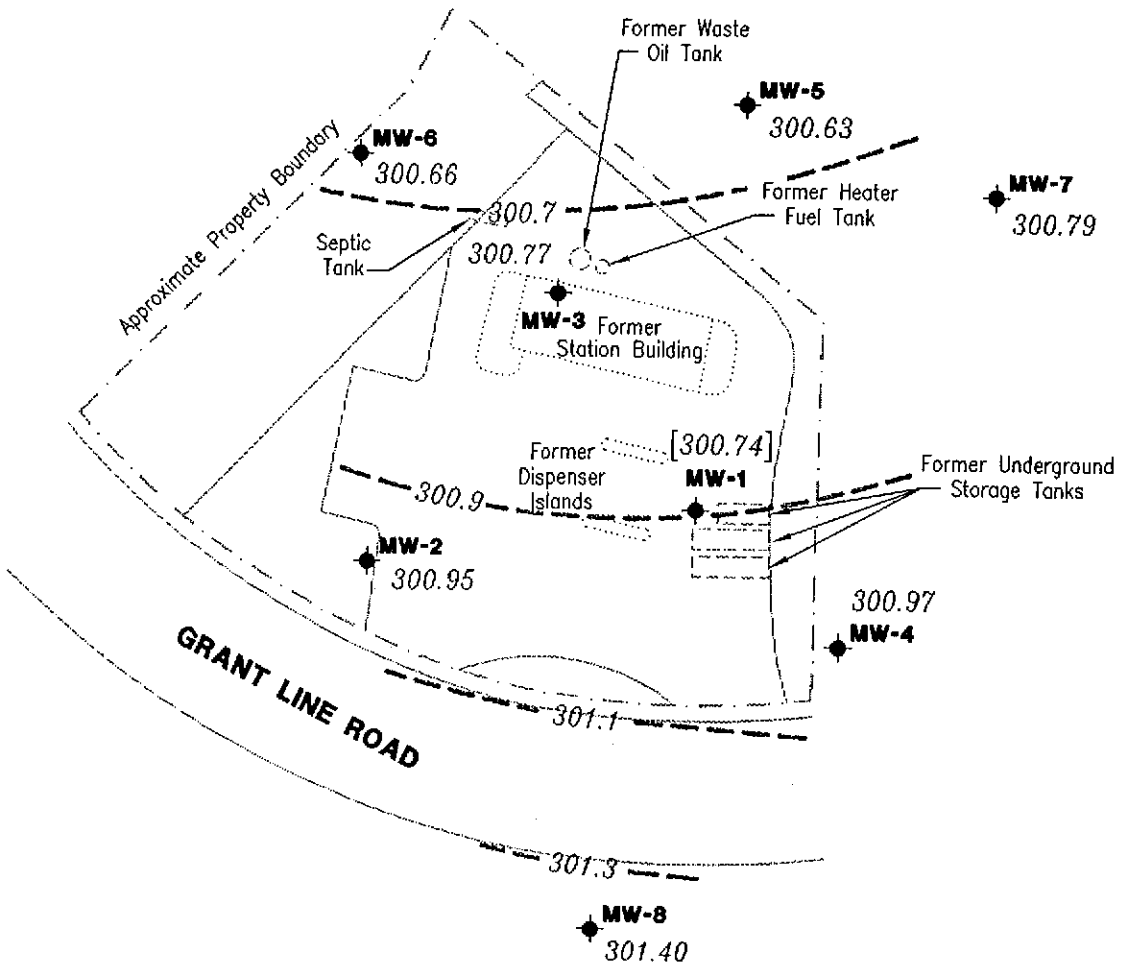
Deanna L. Harding
Project Coordinator

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 - June 19, 1996
Figure 2: Potentiometric Map - July 15, 1996
Figure 3: Potentiometric Map - August 27, 1996
Table 1: Water Level Data and Groundwater Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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 0.002 to 0.004 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

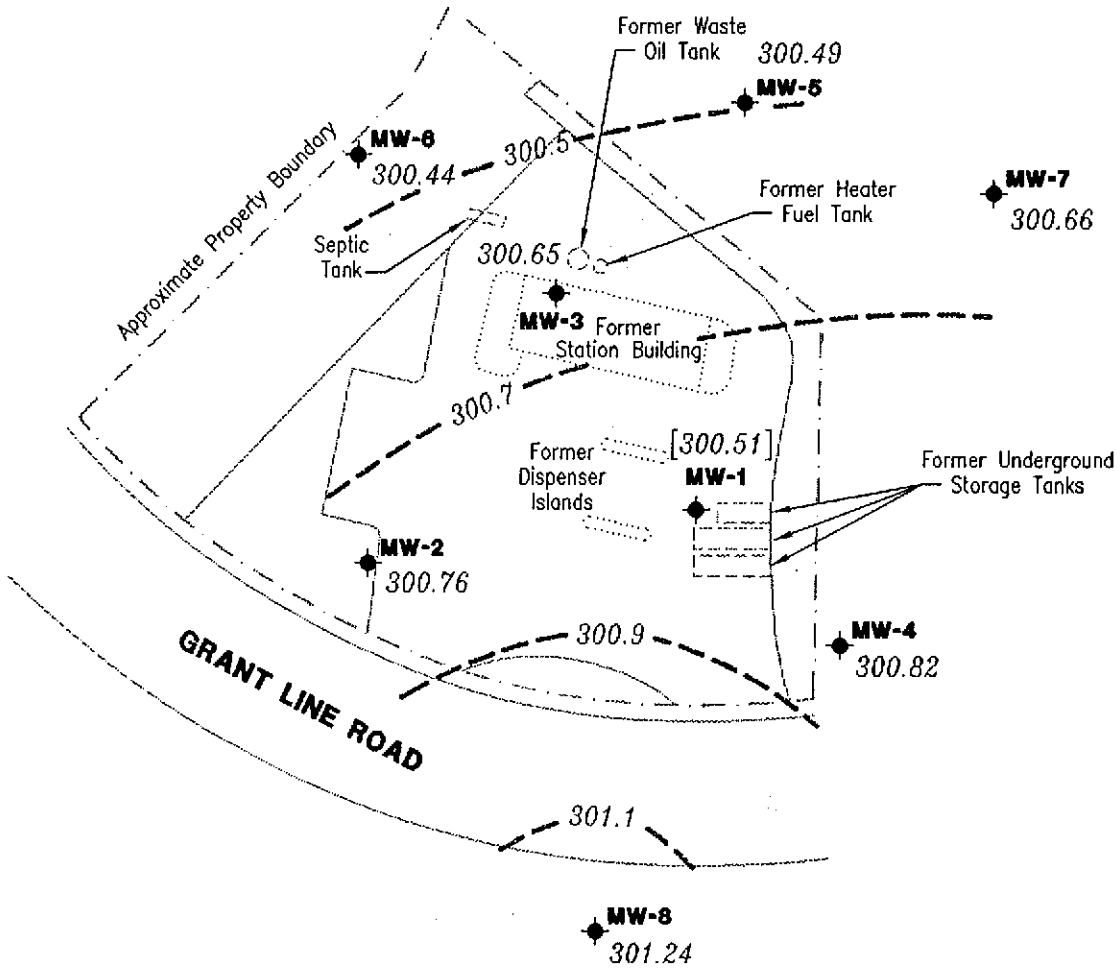
FIGURE 1

JOB NUMBER 5251

REVIEWED BY

DATE June 19, 1996

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.

Approximate groundwater flow direction at a gradient of 0.004 Ft./Ft.

N

0 60

Scale in Feet

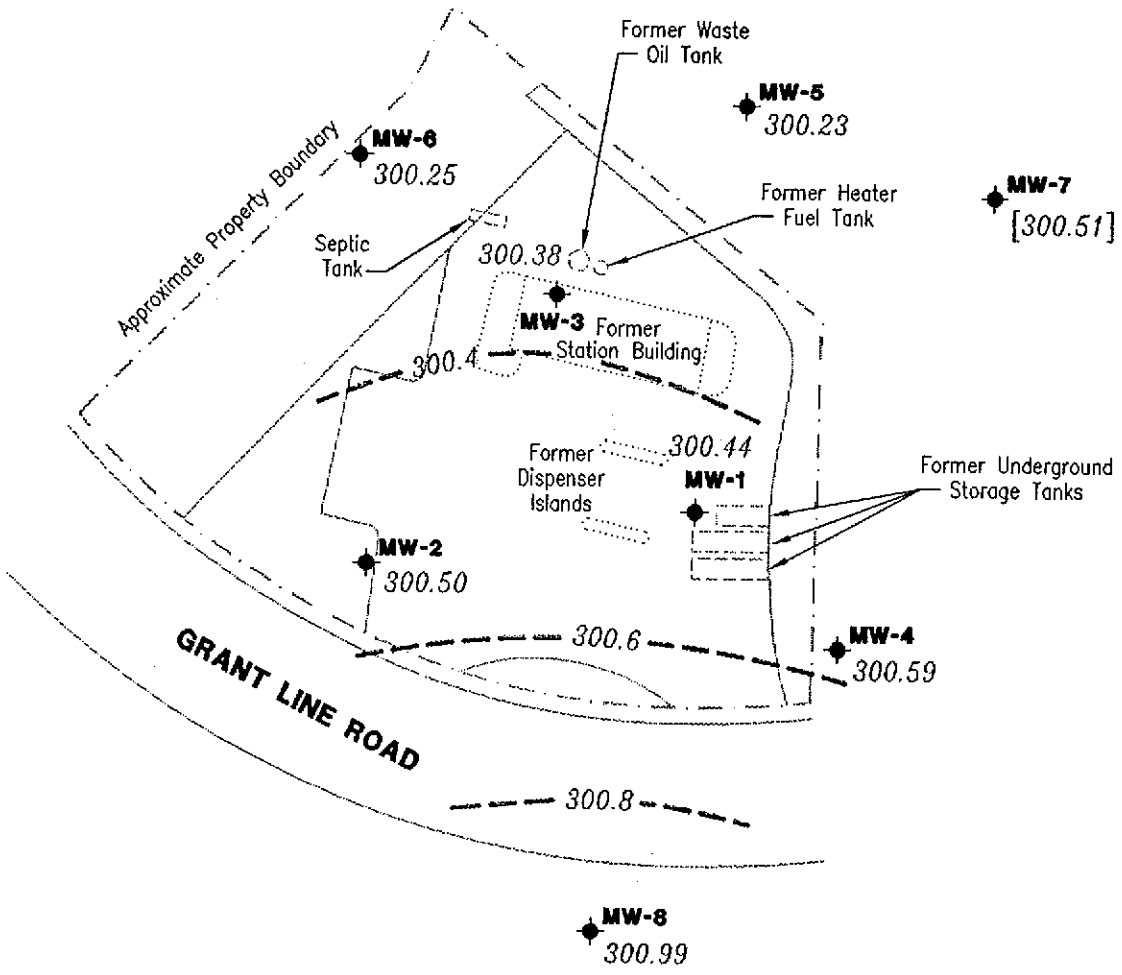
Gettler - Ryan Inc.

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
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5251		July 15, 1996	



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 0.002 to 0.004 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 **3**

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5251		August 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
	3/5/96	28.44	300.73	0	---	---	---	---	---	---
	4/23/96	28.20	300.97	0	---	---	---	---	---	---
	5/30/96	28.47	300.70	0	57,000	15,000	11,000	1,100	4,900	<250
	6/19/96	28.43	300.74	0	---	---	---	---	---	---
	7/15/96	28.66	300.51	Sheen	---	---	---	---	---	---
	8/27/96	28.73	300.44	0	74,000	11,000	9,500	790	3,600	<120
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	---

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	3/9/95	27.41	299.81	0	---	---	---	---	---	---
(cont)	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	---	---	---	---	---	---
	10/9/95	27.85	299.37	0	---	---	---	---	---	---
1x	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
	3/5/96	26.70	300.52	0	---	---	---	---	---	---
	4/23/96	25.82	301.40	0	---	---	---	---	---	---
	5/30/96	26.16	301.06	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	**26.27**	**300.95**	**0**	---	---	---	---	---	---
	7/15/96	**26.46**	**300.76**	**0**	---	---	---	---	---	---
	8/27/96	**26.72**	**300.50**	**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	---
2x	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	---	---	---	---	---	---

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-3	1/29/96	29.22	300.06	0	---	---	---	---	---	---
(cont)	2/27/96	28.43	300.85	0	<2,500	5,000	500	220	130	710
	3/5/96	28.35	300.93	0	---	---	---	---	---	---
	4/23/96	28.10	301.18	0	---	---	---	---	---	---
	5/30/96	28.42	300.86	0	37,000	13,000	7,200	870	2,900	<120
	6/19/96	**28.51**	**300.77**	**0**	---	---	---	---	---	---
	7/15/96	**28.63**	**300.65**	**0**	---	---	---	---	---	---
	8/27/96	**28.90**	**300.38**	**0**	**50,000**	**9,500**	**6,900**	**740**	**2,900**	**<120**
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	---	---	---	---	---	---
	11/30/94	30.51	298.93	0	830	350	29	8.1	22	---
	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	---
2X	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
	3/5/96	28.55	300.89	0	---	---	---	---	---	---
	4/23/96	28.15	301.29	0	---	---	---	---	---	---
	5/30/96	28.40	301.04	0	700	240	4.0	0.6	3.9	<5.0
	6/19/96	**28.47**	**300.97**	**0**	---	---	---	---	---	---
	7/15/96	**28.62**	**300.82**	**0**	---	---	---	---	---	---
	8/27/96	**28.85**	**300.59**	**0**	**<50**	**11**	**<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-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
	3/5/96	11.96	300.92	0	---	---	---	---	---	---
	4/23/96	11.77	301.11	0	---	---	---	---	---	---
	5/30/96	12.17	300.71	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	**12.25**	**300.63**	**0**	**---**	**---**	**---**	**---**	**---**	**---**
	7/15/96	**12.39**	**300.49**	**0**	**---**	**---**	**---**	**---**	**---**	**---**
	8/27/96	**12.65**	**300.23**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
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
	3/5/96	11.32	300.88	0	---	---	---	---	---	---
	4/23/96	11.12	301.08	0	---	---	---	---	---	---
	5/30/96	11.45	300.75	0	60	1.3	<0.5	<0.5	0.9	<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	6/19/96	11.54	300.66	0	---	---	---	---	---	---
(cont)	7/15/96	11.76	300.44	0	---	---	---	---	---	---
	8/27/96	11.95	300.25	0	90	1.6	<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
	3/5/96	12.35	301.01	0	---	---	---	---	---	---
	4/23/96	12.13	301.23	0	---	---	---	---	---	---
	5/30/96	12.42	300.94	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	12.57	300.79	0	---	---	---	---	---	---
	7/15/96	12.70	300.66	0	---	---	---	---	---	---
	8/27/96	12.85	300.51	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
	3/5/96	28.75	301.16	0	---	---	---	---	---	---
	4/23/96	28.25	301.66	0	---	---	---	---	---	---
	5/30/96	28.44	301.47	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	28.51	301.40	0	---	---	---	---	---	---
	7/15/96	28.67	301.24	0	---	---	---	---	---	---
	8/27/96	28.92	300.99	0	<50	<0.5	<0.5	<0.5	<0.5	<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

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			---------->
TB-LB	2/27/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
(cont)	5/30/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/27/96	—	—	—	**<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:

TOC = Top of casing elevation
(ft) = feet
DTW = Depth to water
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-tertiary-butyl ether
ppb = Parts per billion
--- = 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 - 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 the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron USA Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 8-27-96

ADDRESS I-580 @ Grant Line JOB # 5251

CITY Tracy / Altamont Pass SS# 9-7127

Well ID MW-1 Well Condition okay

Well Location Description

Well Diameter ~~2"~~ 4" in Hydrocarbon Thickness 0

Total Depth 40' ft

Depth to Liquid 28.73 ft

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

# of casing Volume 3x 11.28 x ~~0.17~~ 0.66 x(VF) 7.4 #Estimated purge Volume 22 gal.

Purge Equipment Stack Sampling Equipment Bailer

Did well dewater No If yes, Time Volume

Starting Time 15:24 Purging Flow Rate 1.23 gpm.

Sampling Time 1545

Time	pH	Conductivity	Temperature	Volume
15:30	6.79	661	21.6	7.4
1536	6.79	660	21.8	14.8
15:42	6.69	647	21.3	22.2
1545	6.70	652	21.4	23.0

Weather Conditions Sunny Clear warm

Water Color: Clear Odor: Mild

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-1	3x40ml VOA	Y	HCL	GTEL	Gas BTXE MTBE

Comments

8

WELL SAMPLING FIELD DATA SHEET

SAMPLER: E. Cline | DATE: 8-27-96

ADDRESS: I-580 @ Grant Line | JOB #: 5251

CITY: Tracy / Altamont Pass | SS#: 9.7127

Well ID: MW-2 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 38' ft

Depth to Liquid: 26.72 ft

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

# of casing Volume: 3X 11.28 x 0.17 x(VF) 1.7 | #Estimated purge Volume: 5½ gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

Did well dewater: NC | If yes, Time: ___ | Volume:

Starting Time: 14:43 | Purging Flow Rate: 1 gpm.

Sampling Time: 1452

Time	pH	Conductivity	Temperature	Volume
1445	6.91	564	21.7	2
1447	6.86	556	21.6	4
1449	6.71	556	21.4	6
1452	6.75	557	21.7	7

Weather Conditions: Sunny Clear Slight Breeze

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-2	3x40ml VOA	Y	HCL	CTEL	602/8020 MTBE

Comments:

8

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 8-27-96

ADDRESS 1-580 @ Corral Hollow JOB # 5251

CITY Tracy / Altamont Pass SS# 9.7127

Well ID MW-3 Well Condition Clay

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness ~~0~~

Total Depth 40' ft

Depth to Liquid 28.90 ft

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

# of casing Volume 3X 11.10 x 0.17 x(VF) 8.57 #Estimated purge Volume 5.7 gal.

Purge Equipment Stack Sampling Equipment Bailer

Did well dewater NC If yes, Time ___ Volume

Starting Time 15:11 Purging Flow Rate 1 gpm.

Sampling Time 1520

Time	pH	Conductivity	Temperature	Volume
15:13	6.91	721	23.3	2
15:15	6.55	682	21.8	4
15:17	6.58	654	21.7	6
15:20	6.54	652	21.8	7

Weather Conditions Clear Sunny Breeze

Water Color: Clear Odor: None

Sediment Description None

LABORATORY INFORMATION

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

Comments

WELL SAMPLING FIELD DATA SHEET

SAMPLER: E. Cline DATE: 8-27-96

ADDRESS: I-580 @ Grant Line JOB #: 5251

CITY: Tracy / Altamont Pass SS#: 9-7127

Well ID: MW-4 Well Condition: Okay

Well Location Description:

Well Diameter: 2" in Hydrocarbon Thickness: Ø

Total Depth: 40' ft

Depth to Liquid: 28.85 ft

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

# of casing Volume: 3x 11.18 x 0.17 x(VF) 1.89 #Estimated purge Volume: 5.7 gal.

Purge Equipment: Stack Sampling Equipment: Bailer

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

Starting Time: 14:57 Purging Flow Rate: 1.0 gpm.

Sampling Time: 1506

Time	pH	Conductivity	Temperature	Volume
1459	6.97	707	21.8	2
1501	6.93	703	21.9	4
1503	6.94	702	21.4	6
1506	6.93	702	21.5	7

Weather Conditions: Sunny / Clear Breeze

Water Color: Clear Odor: None

Sediment Description: None

LABORATORY INFORMATION

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

Comments:

8

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 8-27-96

ADDRESS I-580 @ Grant Line JOB # 5251

CITY Tracy / Altamont Pass SS# 9.7127

Well ID MW-5 Well Condition Clay

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 28 ft

Depth to Liquid 7.65 ft

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

# of casing Volume 3X 15.35 x 0.17 x(VF) 2.6 #Estimated purge Volume 7.8 gal.

Purge Equipment Stack Sampling Equipment Bailer

Did well dewater N/C If yes, Time ___ Volume

Starting Time 13:59 Purging Flow Rate 1.3 gpm.

Sampling Time

Time	pH	Conductivity	Temperature	Volume
1356	7.36	756	20.2	2.6
1358	7.43	761	19.6	5.2
1400	7.43	764	19.8	7.8
1403	7.42	762	19.8	8.6

Weather Conditions Sunny Clear & Warm

Water Color: Clear Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-5	3x40ml VOA	Y	HCL	CTEL	Ca=BTXE MTBE

Comments

8

WELL SAMPLING FIELD DATA SHEET

SAMPLER: E. Cline | DATE: 8-27-96

ADDRESS: I-580 @ Covana Lane | JOB #: 5251

CITY: Tracy / Altamont Pass | SS#: 9.7127

Well ID: MW-6 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 29' ft

Depth to Liquid: ~~11.95~~ ft

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

# of casing Volume: 3X 17.05 × 0.17 x(VF) 2.9 #Estimated purge Volume: 8.7 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

Did well dewater: N/C | If yes, Time: ___ | Volume:

Starting Time: 14:16 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 1425

Time	pH	Conductivity	Temperature	Volume
1418	7.22	607	20.6	3
1422	7.07	646	20.6	6
1422	7.06	1065	20.1	9
1425	7.07	1065	20.6	12

Weather Conditions: Sunny Clear Breeze

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-6	3x40ml VOA	Y	HCL	CTEL	602/8020 MTBE

Comments:

8

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 8-27-96

ADDRESS: I-580 @ Grant Line | JOB #: 5251

CITY: Tracy / Altamont Pass | SS#: 9.7127

Well ID: MW-7 | Well Condition: okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 28' ft

Depth to Liquid: 12.85 ft

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

# of casing Volume: 3x 15.15 x 0.17 x(VF) 2.6 #Estimated purge Volume: 7.8 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

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

Starting Time: 1349 | Purging Flow Rate: 1.3 gpm.

Sampling Time: 1353

Time	pH	Conductivity	Temperature	Volume
1346	7.17	776	21.6	2.6
1348	7.30	787	20.8	5.2
1350	7.32	792	20.4	7.8
1353	7.31	790	20.5	8.6

Weather Conditions: Sunny Clear Slight Breeze

Water Color: Clear | Odor: None

Sediment Description: N/A

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-7	3x40ml VOA	Y	HCL	CTEL	Ga=BTEX MTBE

Comments:

8

WELL SAMPLING FIELD DATA SHEET

SAMPLER E. Cline DATE 8-27-96

ADDRESS 1-580 @ Grant Line JOB # 5251

CITY Tracy / Altamont Pass SS# 9.7127

Well ID MW-8 Well Condition okay

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 41.9 ft

Depth to Liquid 28.92 ft

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

# of casing Volume 3x 12.98 x 0.17 x(VF) 2.2 #Estimated t purge Volume 6.6 gal.

Purge Equipment Stack Sampling Equipment Bailer

Did well dewater ____ If yes, Time ____ Volume ____

Starting Time 1322 Purging Flow Rate 1.1 gpm.

Sampling Time 1331

Time	pH	Conductivity	Temperature	Volume
1324	7.31	346	21.9	2.2
1326	7.26	321	21.2	4.4
1328	7.27	318	21.6	6.6
1331	7.26	320	21.1	7.2

Weather Conditions Sunny Hot Clear

Water Color: Clear Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-8	3x40ml VOA	Y	HCL	GTEL	Gas+BTXE MTBE

Comments

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

Chain of Custody

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

Chevron Facility Number: 9-7127
Facility Address: 1580 (@) Grant Line Rd 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): Phil Briggs
(Phone): 842-9136
Laboratory Name: GTEL
Laboratory Release Number: 3432040
Samples Collected by (Name): F. Clines
Collection Date: 8-27-96
Signature: [signature]

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	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)						Remarks
TB-LB	01	2	W	TB	—	HCL	Y	X													DO NOT BILL TB-LB ANALYSIS
MW-8	02	3	↓	G	1331	HCL	↓	↓													
MW-7	03	↓	↓	↓	1353	↓	↓	↓													
MW-5	04	↓	↓	↓	1423	↓	↓	↓													
MW-2	05	↓	↓	↓	1452	↓	↓	↓													
MW-6	06	↓	↓	↓	1425	↓	↓	↓													
MW-4	07	↓	↓	↓	1504	↓	↓	↓													
MW-3	08	↓	↓	↓	1520	↓	↓	↓													
MW-1	09	↓	↓	↓	1545	↓	↓	↓													

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	G-R	8-28-96	D. Harding	G-R	8/28/96 8
D. Harding	G-R	8/28/96 1225	John Weber	NEI/GTEL	8/28/96
John Weber	NEI/GTEL	8/28/96 16:10	Received For Laboratory By (Signature): [signature] 7026502276		8/29/96 0830

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

on no seals 1°C

9608-0482

COC-3.DWG/03 91/HCH

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

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

September 27, 1996

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

RE: GTEL Client ID:	GTR01CHV08
Login Number:	W6080484
Project ID (number):	5251.85
Project ID (name):	CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Dear Deanna Harding:

This report, previously dated 09/06/96, is a reissue.

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 08/29/96.

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.

NEI/GTEL is certified by the California 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: W6080484
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6080484-01	W6080484-02	W6080484-03	W6080484-04
Client ID	TB-LB	MW-8	MW-7	MW-5
Date Sampled	08/27/96	08/27/96	08/27/96	08/27/96
Date Analyzed	09/04/96	09/04/96	09/04/96	09/04/96
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	< 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
BTEX (total)	--	ug/L	--	--	--	--
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	< 50

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

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 promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6080484
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6080484-05	W6080484-06	W6080484-07	W6080484-08
Client ID	MW-2	MW-6	MW-4	MW-3
Date Sampled	08/27/96	08/27/96	08/27/96	08/27/96
Date Analyzed	09/04/96	09/04/96	09/04/96	09/05/96
Dilution Factor	1.00	1.00	1.00	25.0

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 120
Benzene	0.5	ug/L	< 0.5	1.6	11.	9500
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	6900
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	740
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	2900
BTEX (total)	--	ug/L	--	1.6	11.	20000
TPH as Gasoline	50	ug/L	< 50	90	< 50	50000

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

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 promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6080484
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6080484-09	--	--	--
Client ID	MW-1	--	--	--
Date Sampled	08/27/96	--	--	--
Date Analyzed	09/05/96	--	--	--
Dilution Factor	25.0	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 120	--	--	--
Benzene	0.5	ug/L	11000	--	--	--
Toluene	0.5	ug/L	9500	--	--	--
Ethylbenzene	0.5	ug/L	790	--	--	--
Xylenes (total)	0.5	ug/L	3600	--	--	--
BTEX (total)	--	ug/L	25000	--	--	--
TPH as Gasoline	50	ug/L	74000	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

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 promulgated Update II.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6080484 Volatile Organics
Project ID (number): 5251.85 Method: EPA 8020A
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 8020A		Acceptability Limits:	43-136%
090496GC10-1	BW09049610	Method Blank Water	93.0
090496GC10-2	CV0904962010	Calibration Verifi	96.4
090496GC10-5	MS08048403	Matrix Spike	93.0
090496GC10-7	DP08048408	Duplicate	88.0
090496GC10-9	LW09049610	Laboratory Control	86.7
--	08048401	TB-LB	73.1
--	08048402	MW-8	93.3
--	08048403	MW-7	85.2
--	08048404	MW-5	90.1
--	08048405	MW-2	83.6
--	08048406	MW-6	91.0
--	08048407	MW-4	89.4
--	08048408	MW-3	77.4
--	08048409	MW-1	93.2

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: W6-08-0484
Date Reported: 09-27-96

METHOD BLANK REPORT

Volatile Organics in Water
EPA Method 8020A

Date of Analysis: 04-Sep-96 QC Batch No: 090496GC10-1

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
Login Number: W6080484
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:090496GC10-2			
Benzene		20.0	17.0	85.0	77-123%
Toluene		20.0	18.2	91.0	77.5-122.5%
Ethylbenzene		20.0	17.9	89.5	63-137%
Xylenes (Total)		60.0	56.0	93.3	85-115%
TPH as Gasoline		500.	448.	89.6	80-120%

Notes:
QC check source: Supelco #LA12389

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Login Number: W6080484 Volatile Organics
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Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A Units:ug/L	QC Batch:090496GC10-9			
Benzene	20.0	15.4	77.0	39-150%
Toluene	20.0	16.3	81.5	46-148%
Ethylbenzene	20.0	16.1	80.5	32-160%
Xylenes (Total)	60.0	50.7	84.5	51-145%
TPH as Gasoline	100	192	192.*	80-120%

Notes:

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Login Number: W6080484
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020A Units: ug/L	QC Batch: 090496GC10-7	GTEL Sample ID: W6080484-08		Client ID: MW-3
MTBE	< 250.	< 250.	NA	20
Benzene	9460	9110	3.77	23.9
Toluene	6910	6640	3.99	27.2
Ethylbenzene	739.	714.	3.44	21.6
Xylenes (Total)	2880	2780	3.53	22.0
TPH as Gasoline	50100	49100	2.02	20

Notes:

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

GTEL Client ID: GTR01CHV08
Login Number: W6080484
Project ID (number): 5251.85
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6080484-03
Analysis Date: 04-SEP-96

MS ID:MS08048403
04-SEP-96

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.000)	20.0	15.1	75.5	67-110
Toluene	< 0.5 (0.000)	20.0	15.8	79.0	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	15.6	78.0	65-120
Xylenes (Total)	< 0.5 (0.000)	60.0	48.8	81.3	62-119

Notes:

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6080484 Volatile Organics
Project ID (number): 5251.85 Method: EPA 8020A
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: