Chevron

January 1, 1998

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 Semi-Annual (Fourth Quarter) Groundwater Monitoring report for 1997, prepared by our consultant Gettler-Ryan Inc. for the above noted facility. Ground water samples were analyzed for TPH-g, BTEX and MtBE constituents. Monitoring wells MW-2, MW-5, MW-7 and MW-8 are sampled annually in May with the remaining wells sampled semi-annually in May and November. The water supply well is sampled annually in November.

Monitoring well MW-6 and the supply well were below method detection limits for all constituents. Monitoring well MW-1showed a decrease in the benzene constituent from the previous sampling event while wells MW-3 and MW-4 showed an increase. Since wells MW-1 and MW-3 continue to detect relatively high concentrations of the benzene constituent in relation to the other wells, Chevron recommends that an Oxygen Releasing Compound (ORC) be installed in both wells prior to the next sampling event. This should accelerate the natural attenuation process. It also may be appropriate to add ORC to well MW-4 since the benzene concentration has been increasing in this well.

Groundwater depth varied from 11.77 feet to 28.70 feet below grade with a direction of flow to the northeast..

Chevron will continue to sample the wells based on the sampling program noted above. Chevron requests your approval to install the ORC's in the wells noted above and prior to

the next sampling event. 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

GETTLER-RYAN INC.

December 23, 1997 Job #5251.80

Mr. Phil Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Re: Semi-Annual 1997 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 semi-annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On November 18, 1997, G-R field personnel monitored eight wells (MW-1 through MW-8) and sampled five wells (MW-1, MW-3, MW-4, MW-6, and SW-water supply well), 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 November 18, 1997. 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. Field Parameters and Groundwater Analytical Results are presented in Table 2. A Potentiometric Map is included as Figure 1.

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 Sequoia Analytical. Analytical results are presented in Tables 1 and 2. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

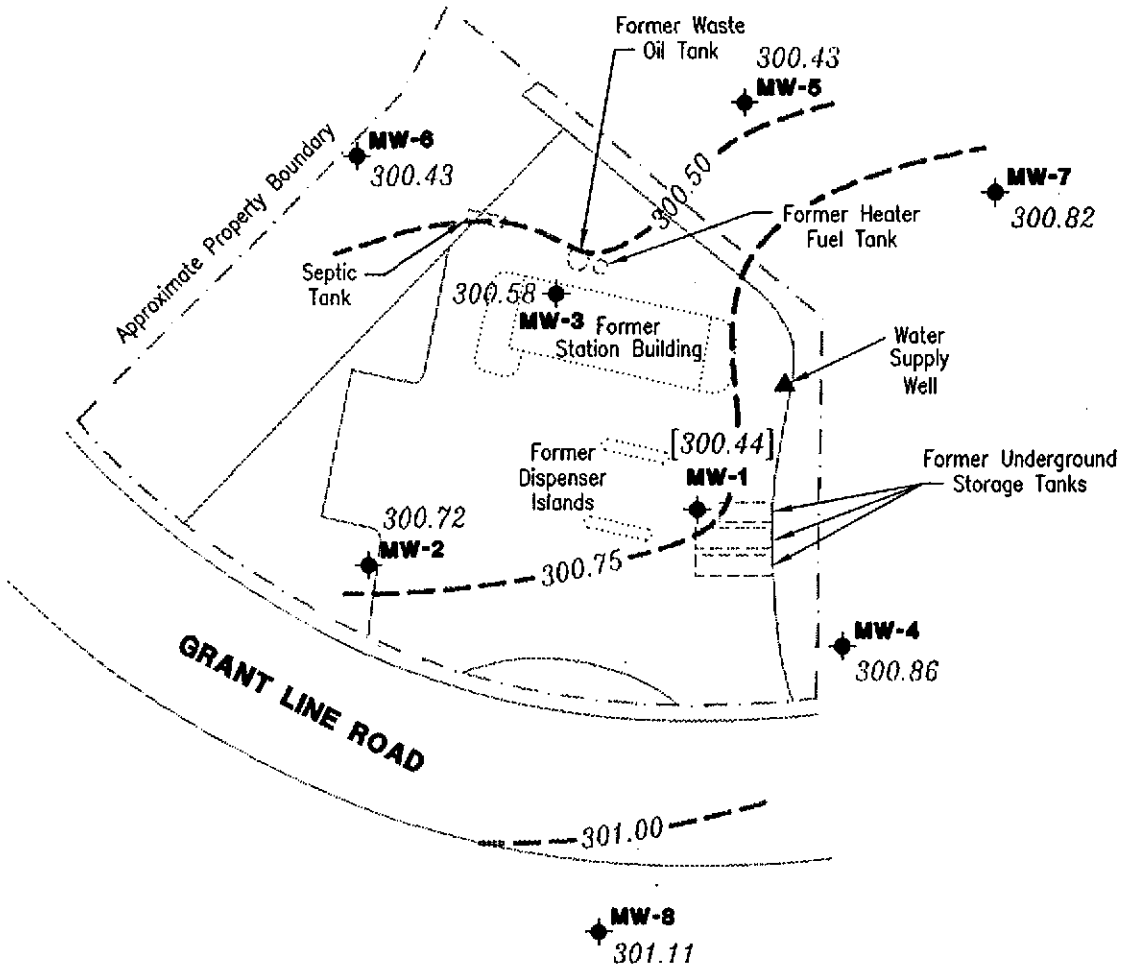
Deanna L. Harding
Project Coordinator

Stephen J. Carter
Senior Geologist, R.G. No. 5577

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

DLH/SJC/dlh
5251.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytical Results
Table 2: Field Parameters 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 0.01 to 0.002 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	REVIEWED BY	DATE	REVISED DATE
5251		November 18, 1997	

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
	9/9/96	28.85	300.32	0	---	---	---	---	---	---
	10/28/96	28.53	300.64	Sheen	---	---	---	---	---	---
	11/11/96	28.77	300.40	0	69,000	13,000	9,100	810	3,200	<250
	5/6/97	28.12	301.05	0	98,000	23,000	17,000	1,100	5,200	<500
	7/27/97	28.18	300.99	0	---	---	---	---	---	---
	11/18/97	**28.73**	**300.44**	**0**	**58,000**	**19,000**	**9,700**	**1,100**	**4,000**	**<500**
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	---

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 (cont)	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	—	—	—	—	—	—
	10/9/95	27.85	299.37	0	—	—	—	—	—	—
	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
	9/6/96	26.80	300.42	0	—	—	—	—	—	—
	10/28/96	26.83	300.39	0	—	—	—	—	—	—
	11/11/96	26.72	300.50	0	—	—	—	—	—	—
	5/6/97	26.01	301.21	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/27/97	26.38	300.84	0	—	—	—	—	—	—
	11/18/97	**26.50**	**300.72**	**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	—	—	—	—	—	—

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	7/21/95	29.70	299.58	0	---	---	---	---	---	---
(cont)	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
	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
	9/6/96	28.98	300.30	0	---	---	---	---	---	---
	10/28/96	28.98	300.30	0	---	---	---	---	---	---
	11/11/96	28.84	300.44	0	52,000	11,000	5,500	780	3,000	<250
	5/6/97	28.22	301.06	0	93,000	23,000	15,000	1,400	6,200	<500
	7/27/97	28.58	300.70	0	---	---	---	---	---	---
	11/18/97	**28.70**	**300.58**	**0**	**81,000**	**29,000**	**17,000**	**1,600**	**6,700**	**<500**
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	---
	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

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	12/30/95	29.79	299.65	0	---	---	---	---	---	---
(cont)	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
	9/6/96	28.92	300.52	0	---	---	---	---	---	---
	10/28/96	28.90	300.54	0	---	---	---	---	---	---
	11/11/96	28.78	300.66	0	240	57	1.4	0.7	1.8	<5.0
	5/6/97	28.11	301.33	0	240	74	2.7	<0.5	1.6	<5.0
	7/27/97	28.43	301.01	0	---	---	---	---	---	---
	11/18/97	**28.58**	**300.86**	**0**	**270**	**230**	**3.5**	**1.0**	**1.6**	**<2.5**
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	---	---	---	---	---	---

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	5/30/96	12.17	300.71	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
(cont)	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
	9/6/96	12.68	300.20	0	—	—	—	—	—	—
	10/28/96	12.72	300.16	0	—	—	—	—	—	—
	11/11/96	12.61	300.27	0	—	—	—	—	—	—
	5/6/97	12.06	300.82	0	<50	2.2	2.0	<0.5	1.7	<5.0
	7/27/97	12.39	300.49	0	—	—	—	—	—	—
	11/18/97	**12.45**	**300.43**	**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
	6/19/96	11.54	300.66	0	—	—	—	—	—	—
	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
	9/6/96	12.02	300.18	0	—	—	—	—	—	—
	10/28/96	12.01	300.19	0	—	—	—	—	—	—
	11/11/96	11.90	300.30	0	110[4]	<0.5	<0.5	<0.5	<0.5	<5.0
	5/6/97	11.28	300.92	0	170	<0.5	<0.5	<0.5	<0.5	<5.0
	7/27/97	11.68	300.52	0	—	—	—	—	—	—
	11/18/97	**11.77**	**300.43**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
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
	9/6/96	12.90	300.46	0	—	—	—	—	—	—
	10/28/96	12.84	300.52	0	—	—	—	—	—	—
	11/11/96	12.75	300.61	0	—	—	—	—	—	—
	5/6/97	12.14	301.22	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-7	7/27/97	12.45	300.91	0	—	—	—	—	—	—
(cont)	**11/18/97**	**12.54**	**300.82**	**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
	9/6/96	28.99	300.92	0	—	—	—	—	—	—
	10/28/96	29.06	300.85	0	—	—	—	—	—	—
	11/11/96	28.98	300.93	0	—	—	—	—	—	—
	5/6/97	28.14	301.77	0	<50	3.6	3.1	0.7	2.5	<5.0
	7/27/97	28.55	301.36	0	—	—	—	—	—	—
	11/18/97	**28.80**	**301.11**	**0**	—	—	—	—	—	—
Supply Well	11/15/95	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/11/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/27/97	—	—	—	—	—	—	—	—	—
	11/18/97	—	—	—	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
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
	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
	11/11/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/6/97	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/27/97	—	—	—	—	—	—	—	—	—
	11/18/97	—	—	—	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**

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			———>
Bailer Blank										
BB	2/15/94	---	—	---	<50	<0.5	<0.5	<0.5	<0.5	—

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.

4 Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern.

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Table 2. Field Parameters and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California

Well ID	Date	Time	Volume	pH	Conductivity µmhos/cm	Temperature °C	DO (mg/L)	ORP (mV)	Total Alkalinity (ppm)	Nitrate (mg/L)	Sulfate (mg/L)	Phosphate (mg/L)	Ferrous Iron (mg/L)
MW-1	07/27/97	14:46											
		14:51	7.5	7.09	212	20.9	2.37	-5	500				
		14:56	15.0	7.11	212	21.0	2.24	-6	600				
		15:01	22.5	7.11	211	21.1	2.24	-5	550				
		15:03	23.0	7.10	212	20.9	2.25	-6	550	<1.0	14	<100	2.2
MW-2	07/27/97	14:01											
		14:03	2.0	6.95	206	21.2	9.83	2.1	300				
		14:05	4.0	6.95	206	21.2	9.85	3.0	350				
		14:07	6.0	6.95	205	21.2	9.93	3.0	325				
		14:09	7.0	6.95	205	21.2	9.90	3.0	350	59	68	<10	0.019
MW-3	07/27/97	14:29											
		14:31	2.0	7.11	269	23.0	8.75	-4.3	875				
		14:33	4.0	6.95	264	22.0	6.22	2.8	850				
		14:35	6.0	6.93	261	21.9	6.90	4.3	850				
		14:37	7.0	6.94	262	21.9	6.70	4.3	850	<1.0	<1.0	<10	2.1
MW-4	07/27/97	14:14											
		14:16	2.0	7.22	244	20.6	8.75	-13	500				
		14:18	4.0	7.21	243	20.6	8.20	-13	550				
		14:20	6.0	7.24	246	20.5	8.55	-13	525				
		14:22	7.0	7.22	245	20.6	8.50	-13	550	80	68	<10	0.15
MW-5	07/27/97	13:15											
		13:18	3.0	7.95	274	19.3	10.45	-55	300				
		13:20	6.0	7.92	273	19.0	10.35	-54	350				
		13:22	9.0	7.90	274	18.9	10.30	-52	300				
		13:24	10.0	7.91	273	19.0	10.31	-53	300	82	100	<10	0.013
MW-6	07/27/97	13:42											
		13:44	3.0	7.54	261	23.2	11.28	-40	400				
		13:46	6.0	7.34	232	19.4	8.10	-18	450				
		13:48	9.0	7.26	227	19.0	8.35	-16	400				
		13:50	10.0	7.2	228	19.1	8.32	-15	400	17	27	<10	0.017
MW-7	07/27/97	13:02											
		13:04	3.0	7.91	245	19.6	8.95	-52	350				
		13:06	6.0	7.94	264	19.3	9.70	-55	325				
		13:08	9.0	7.95	266	19.3	9.80	-55	350				
		13:10	10.0	7.93	265	19.3	9.79	-55	350	99	100	<10	0.012

Table 2. Field Parameters and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID	Date	Time	Volume	pH	Conductivity µmhos/cm	Temperature °C	DO (mg/L)	ORP (mV)	Total Alkalinity (ppm)	Nitrate (mg/L)	Sulfate (mg/L)	Phosphate (mg/L)	Ferrous Iron (mg/L)
MW-8	07/27/97	12:38											
		12:40	2.2	7.85	141	21.1	9.40	-61.3	100				
		12:42	4.6	7.84	141	20.8	9.30	-48.3	150				
		12:44	6.6	7.83	142	20.9	9.25	-50	100				
		12:46	7.0	7.84	141	20.8	9.25	-50	100	50	24	<10	0.020
Supply Well SW	07/27/97	13:40	---	7.85	257	22.7	4.89	-53	200	48	76	<10	1.5

EXPLANATION:

DO = Dissolved Oxygen
ORP = Oxidation-Reduction Potential
mg/L = Miligrams per liter
mV = Millivolts
ppm = Parts per million
µmhos/cm = Micromhos/per centimeter
°C = degress celcius

NOTES:

5251-2.fld

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. 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 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 MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: E.Cline

Well ID MW- 1 Well Condition: Okay

Well Diameter 4" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): _____ (gal.)

Total Depth 40' ft.

Depth to Water 28.73 ft.

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

11.27 X VF 0.66 = 7.4 X 3 (case volume) = Estimated Purge Volume: 22.3 (gal.)

Purge Equipment:
Disposable Bailer
Bailer
(Stack)
Suction
Grundfos
Other: _____

Sampling Equipment:
(Disposable Bailer)
~~Bailer~~
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 9:30 Weather Conditions: _____

Sampling Time: 9:47 Water Color: _____ Odor: _____

Purging Flow Rate: 1.5 gpm Sediment Description: _____

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:35	7.5	6.50	218	19.8			
9:46	15.0	6.55	221	19.2			
9:42	22.5	6.54	220	19.3			
9:47	23.0	6.50	220	19.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 1	3 x 40m/VOA	Y	HCL	~~NEI/CTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18 97

City: Tracy, CA Sampler: F.Cline

Well ID MW-2 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth 38' ft.

Depth to Water 26.50 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: _____

Sampling Equipment:
- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: _____ Weather Conditions: _____

Sampling Time: _____ Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		w/c	ant/				

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
~~MW-~~	~~3 x 40m/VOA~~	~~Y~~	~~HCL~~	~~NEI/CTEL~~	~~TPH-Gas/BTEX/MTBE~~

COMMENTS: Sampled annual. Water level only.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: F.Cline

Well ID MW-3 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth 40' ft.

Depth to Water 28.76 ft.

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

11.36 X VF 0.17 = 1.9 X 3 (case volume) = Estimated Purge Volume: 5.76 (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- (Stack)
- ~~Suction~~
- Grundfos
- Other:

Sampling Equipment:
- (Disposable Bailer)
- ~~Bailer~~
- Pressure Bailer
- Grab Sample
- Other:

Starting Time: 9:18 Weather Conditions: Cloudy cool

Sampling Time: 9:26 Water Color: clear Odor: Mild

Purging Flow Rate: 1 gpm Sediment Description: NA

Did well de-water? NC If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:20	2	6.45	195	19.1			
9:22	4	6.46	200	19.0			
9:24	6	6.48	201	19.0			
9:26	7	6.45	200	19.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x 40m/VOA	Y	HCL	~~NCI/GTEL~~ Sequoia	TPH-Gas/BTEX/MTBE

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: F.Cline

Well ID MW-4 Well Condition: clear

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth 40' ft.

Depth to Water 28.58 ft.

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

11.42 X VF 0.17 = 1.9 X 3 (case volume) = Estimated Purge Volume: 5.82 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:

Sampling Equipment: (Disposable Bailer); ~~Bailer~~; Pressure Bailer; Grab Sample; Other:

Starting Time: 9:10 Weather Conditions: cloudy cool

Sampling Time: 9:18 Water Color: Clear Odor: None

Purging Flow Rate: 1 gpm. Sediment Description: None

Did well de-water? No If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:12	2	6.68	158	18.6			
9:14	4	6.70	159	18.7			
9:16	6	6.72	162	18.6			
9:18	7	6.69	160	18.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x 40m/VOA	Y	HCL	~~NET/GTEL~~ Sequoia	TPH-Gas/BTEX/MTBE

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: F.Cline

Well ID MW-5 Well Condition: okay

Well Diameter ____ in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth ____ ft.

Depth to Water 12.45 ft.

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

____ X VF ____ = ____ X 3 (case volume) = Estimated Purge Volume: ____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: ____

Sampling Equipment:
- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: ____

Starting Time: ____ Weather Conditions: ____

Sampling Time: ____ Water Color: ____ Odor: ____

Purging Flow Rate: ____ gpm. Sediment Description: ____

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		W/L	only				

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
~~MW-~~	~~3 x 40m/VOA~~	~~Y~~	~~HCL~~	~~NEI/GTEL~~	~~TPH-Gas/BTEX/MTBE~~

COMMENTS: Sampled annual. Water level only

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: F.Cline

Well ID MW- 6 Well Condition: Gray

Well Diameter 2" in. Hydrocarbon Thickness: ____ in. Amount Bailed (product/water): ____ (gal.)

Total Depth 29.5 ft.

Depth to Water 11.77 ft.

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

17.73 X VF 0.17 = 2.9 X 3 (case volume) = Estimated Purge Volume: 8.7 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: ____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: ____

Starting Time: 8:53 Weather Conditions: Cloudy Cool

Sampling Time: 901 Water Color: Clear Odor: None

Purging Flow Rate: 1.5 gpm Sediment Description: None

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
853	3	6.81	125	18.8			
857	6	6.66	130	18.9			
859	9	6.77	128	18.9			
901	12	6.75	130	18.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 6	3 x 40m/VOA	Y	HCL	~~NEI/CTEL~~ Sequoia	TPH-Gas/BTEX/MTBE

COMMENTS: ____

9/97-fieldat.frm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: F.Cline

Well ID MW-7 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth ft.

Depth to Water 12.54 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: _____

Sampling Equipment:
- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: _____ Weather Conditions: _____

Sampling Time: _____ Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		w/c	cnt/				

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
~~MW-~~	~~3 x 40ml/VOA~~	~~Y~~	~~HCL~~	~~NEI/GTEL~~	~~TPH Gas/BTEX/MTBE~~

COMMENTS: Sample annual. Water level only

9/97-fieldst.fmn

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: E.Cline

Well ID MW-8 Well Condition: Okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): _____ (gal.)

Total Depth _____ ft.

Depth to Water 28.80 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: _____

Sampling Equipment: Disposable Bailer; Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: _____ Weather Conditions: _____

Sampling Time: _____ Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm Sediment Description: _____

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		W/L	only				

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
~~MW~~	~~3 x 40m/VOA~~	~~Y~~	~~HCl~~	~~NEI/GTEL~~	~~TPH Gas/BTEX/MTBE~~

COMMENTS: Sample annual. Water level only.

9/97-fieldat.fm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-7127 Job#: 5251.80

Address: Grant Line Road & I-580 Date: 11-18-97

City: Tracy, CA Sampler: F.Cline

Well ID ~~MW-~~ SW (Supply well)

Well Diameter ____ in.

Total Depth ____ ft.

Depth to Water ____ ft.

Well Condition: clear

Hydrocarbon Thickness: € in.

Amount Bailed (product/water): € (gal.)

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

____ X VF ____ = ____ X 3 (case volume) = Estimated Purge Volume: ____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: ____

Sampling Equipment:
- Disposable Bailer
- Bailer
- Pressure Bailer
- (Grab Sample)
- Other: ____

Starting Time: ____ Weather Conditions: Cloudy cool

Sampling Time: 9:42 Water Color: Clear - Brown Odor: N/a

Purging Flow Rate: ____ gpm Sediment Description: Light ~~Grey~~ Silt

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:42	N/A	7.45	198	17.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
~~MW-~~ SW	3 x 40m/VOA	Y	HCL	~~NEI/CFEL~~ Sequoia	TPH-Gas/BTEX/MTBE

COMMENTS: Sampled annual. (November)

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

Chain-of-Custody-Recor

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 Rd., Tracy, CA
Consultant Project Number: 5251.80
Consultant Name: Gettler-Ryan
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name): Deanna Harding
(Phone): 551-7555 (Fax Number): 551-7888

Chevron Contact (Name): Mr. Phil Briggs
(Phone): (510) 842-9136
Laboratory Name: ~~NET/GTEL~~ Sequoia Service Code: ZZ02790
Laboratory Service Order #: ~~9033199~~ 9050840
Samples Collected by (Name): F. Clone
Collection Date: 11-18-97
Signature:

Analyses To Be Performed 9411m13

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)	TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					DO NOT BILL TB-LB ANALYSIS Remarks
TB-7136L65	1	2	W	TB	—	HCl	Y	X												
SW	2	3		G	940			X												
MW-6	3	3			901			X												
MW-4	4	3			918			X												
MW-3	5	3			926			X												
MW-1	C	3			947			X												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	11-19-97/0800	D. Harding	G-R Inc.	10/18/97
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
D. Harding	G-R	11/19/97 10:06		Sequoia	11/19/97 10:06
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
		11/19/97			11-19 1224

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

3.DWG/03 91/HCH

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127, 5251.80	Sampled: 11/18/97
6747 Sierra Court Suite G	Sample Descript: TB-LB	Received: 11/19/97
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 11/24/97
Attention: Deanna Harding	Lab Number: 9711A93-01	Reported: 12/01/97

Instrument ID: GCHP01

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

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

SEQUOIA ANALYTICAL - ELAP #2000

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127, 5251.80	Sampled: 11/18/97
6747 Sierra Court Suite G	Sample Descript: MW-1	Received: 11/19/97
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 11/25/97
Attention: Deanna Harding	Lab Number: 9711A93-06	Reported: 12/01/97

Instrument ID: GCHP01

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**10000**	**58000**
Methyl t-Butyl Ether	500	N.D.
Benzene	**100**	**19000**
Toluene	**100**	**9700**
Ethyl Benzene	**100**	**1100**
Xylenes (Total)	**100**	**4000**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

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

SEQUOIA ANALYTICAL ELAP #2000

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127, 5251.80	Sampled: 11/18/97
6747 Sierra Court Suite G	Sample Descript: MW-3	Received: 11/19/97
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 11/25/97
Attention: Deanna Harding	Lab Number: 9711A93-05	Reported: 12/01/97

Instrument ID: GCHP01

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**10000**	**81000**
Methyl t-Butyl Ether	500	N.D.
Benzene	**100**	**29000**
Toluene	**100**	**17000**
Ethyl Benzene	**100**	**1600**
Xylenes (Total)	**100**	**6700**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

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

SEQUOIA ANALYTICAL - ELAP #2000

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127, 5251.80	Sampled: 11/18/97
6747 Sierra Court Suite G	Sample Descript: MW-4	Received: 11/19/97
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 11/25/97
Attention: Deanna Harding	Lab Number: 9711A93-04	Reported: 12/01/97

Instrument ID: GCHP01

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**270**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	**0.50**	**230**
Toluene	**0.50**	**3.5**
Ethyl Benzene	**0.50**	**1.0**
Xylenes (Total)	**0.50**	**1.6**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

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

SEQUOIA ANALYTICAL - ELAP #2000

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127, 5251.80	Sampled: 11/18/97
6747 Sierra Court Suite G	Sample Descript: MW-6	Received: 11/19/97
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 11/25/97
Attention: Deanna Harding	Lab Number: 9711A93-03	Reported: 12/01/97

Instrument ID: GCHP01

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

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

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Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127, 5251.80	Sampled: 11/18/97
6747 Sierra Court Suite G	Sample Descript: SW	Received: 11/19/97
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 11/25/97
Attention: Deanna Harding	Lab Number: 9711A93-02	Reported: 12/01/97

Instrument ID: GCHP01

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

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

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Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Chevron 9-7127, 5251.80
Matrix: Liquid
Work Order #: 9711A93 -01-06
Reported: Dec 1, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analyst:	N. Zahedi	N. Zahedi	N. Zahedi	N. Zahedi	N. Zahedi
MS/MSD #:	7110479	7110479	7110479	7110479	7110479
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/25/97	11/25/97	11/25/97	11/25/97	11/25/97
Analyzed Date:	11/25/97	11/25/97	11/25/97	11/25/97	11/25/97
Instrument I.D.#:	HP1	HP1	HP1	HP1	HP1
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	20 µg/L
Matrix Spike % Recovery:	100	101	104	101	92
Matrix Spike Dup % Recov.:	105	94	107	103	87
RPD:	4.9	7.2	2.8	2.0	5.6
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	LCS112597	LCS112597	LCS112597	LCS112597	LCS112597
Prepared Date:	11/25/97	11/25/97	11/25/97	11/25/97	11/25/97
Analyzed Date:	11/25/97	11/25/97	11/25/97	11/25/97	11/25/97
Instrument I.D.#:	HP1	HP1	HP1	HP1	HP1
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	20 µg/L
LCS % Recov.:	99	102	106	107	91
MS/MSD Control Limits	58-126	61-125	61-127	65-128	24-129
LCS Control Limits	72-118	79-117	81-118	83-121	50-117

SEQUOIA ANALYTICAL
Elap #2000

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127, 5251.80	Received: 11/19/97
6747 Sierra Court Suite G		
Dublin, CA 94568	Lab Proj. ID: 9711A93	Reported: 12/01/97
Attention: Deanna Harding		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 9 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager