GETTLER-RYAN INC.

July 26, 1996 Job #5259.80

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

Re: Chevron Service Station #9-0504
15900 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Briggs:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On June 21, 1996, field personnel were on-site to monitor and sample eleven wells (C-1 through C-11) at Chevron Service Station #9-0504 located at 15900 Hesperian Boulevard in San Lorenzo, California.

Static groundwater levels were measured on June 21, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

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

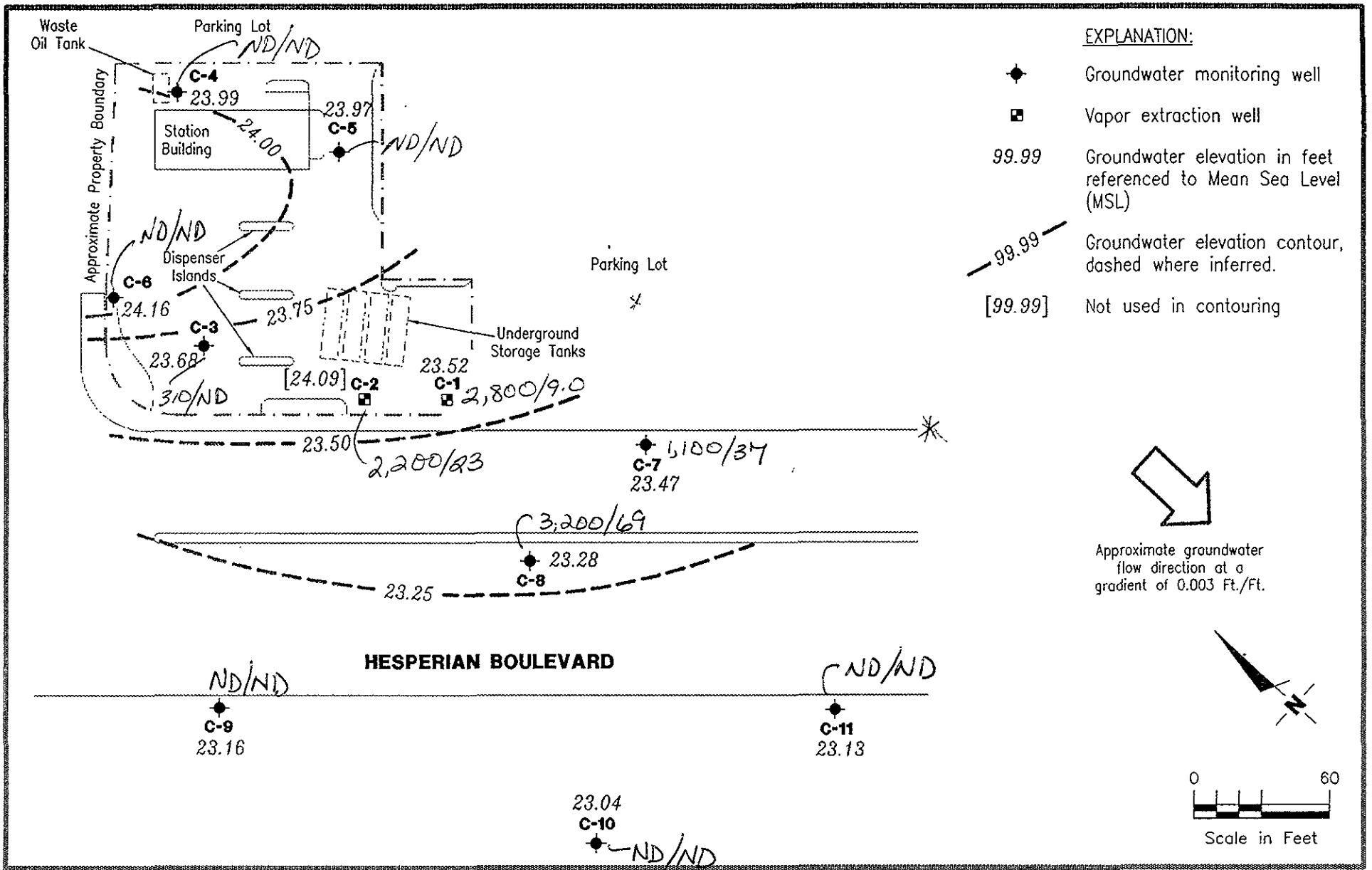
Deanna L. Harding
Project Coordinator

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

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

DLH/PLS/dlh
5259.QML

Figure 1: Potentiometric Map
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



Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard
San Lorenzo, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5259		June 21, 1996	

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<ppb>							
C-1	6/6/89	—	—	0	5,100	250	170	200	990	—	—	—
	12/8/89	13.14	—	0.01	—	—	—	—	—	—	—	—
33.93[2]	9/7/90	14.04	19.91[1]	0.03	—	—	—	—	—	—	—	—
	12/20/90	13.87	20.07[1]	0.01	—	—	—	—	—	—	—	—
	3/15/91	11.40	22.53	0	37,000	220	53	53	1,900	—	—	—
	6/28/91	12.25	21.68	0	3,300	110	6.2	6.2	350	—	—	—
	9/26/91	14.02	19.91	0	3,200	220	6.9	6.9	710	—	—	—
	1/27/92	12.63	21.30	0	330	20	0.6	0.6	48	—	—	—
	4/20/92	10.43	23.50	0	2,700	130	3.4	3.4	690	—	—	—
	7/17/92	12.61	21.32	0	490	17	<0.5	<0.5	52	—	—	—
	1/20/93	9.42	24.51	0	—	—	—	—	—	—	—	—
	7/28/93	10.48	23.45	0	—	—	—	—	—	—	—	—
32.80	10/27/93	11.32	21.48	0	240	3.6	<0.5	11	23	—	—	—
	3/31/94	9.45	23.35	0	530	23	1.2	10	120	—	—	—
	6/8/94	9.93	22.87	0	990	15	1.5	42	89	—	—	—
	9/29/94[4]	—	—	—	—	—	—	—	—	—	—	—
	11/9/94[4]	—	—	—	—	—	—	—	—	—	—	—
	12/14/94[4]	—	—	—	—	—	—	—	—	—	—	—
	3/30/95	8.01	24.79	0	3,900	21	7.2	190	250	—	—	—
	6/30/95	9.82	22.98	0	1,400	3.1	0.8	54	95	—	—	—
	9/22/95	10.60	22.20	0	620[5]	0.7	<0.5	3.3	3.5	—	—	—
	12/11/95	10.30	22.50	0	210	2.4	<0.5	43	85	79	—	—
	3/8/96	7.65	25.15	0	750	2.1	<0.5	22	34	330	—	—
	6/21/96	**9.28**	**23.52**	**0**	**2,800**	**9.0**	**<0.5**	**94**	**83**	**1,300**	—	—
C-2	6/6/89	—	—	0	130,000	14,000	28,000	3,400	24,000	—	—	—
	12/8/89	13.44	—	0.15	—	—	—	—	—	—	—	—
34.21[2]	9/7/90	14.28	20.01[1]	0.10	—	—	—	—	—	—	—	—
	12/20/90	14.06	20.16[1]	0.01	—	—	—	—	—	—	—	—
	3/15/91	11.59	22.63[1]	0.01	1,200,000	4,700	16,000	13,000	140,000	—	—	—
	6/28/91	12.55	21.66	0	150,000	3,500	4,200	2,100	16,000	—	—	—
	9/26/91	14.20	20.01	0	4,900	220	290	130	880	—	—	—
	1/27/92	12.46	21.75	0	8,200	510	590	230	1,300	—	—	—
	4/20/92	10.24	23.97	0	19,000	1,700	1,700	930	4,700	—	—	—
	7/17/92	12.81	21.40	0	20,000	950	950	1,300	4,700	—	—	—
	1/20/93	8.79	25.42	0	—	—	—	—	—	—	—	—
33.46	10/27/93	12.36	21.10	0	1,600	63	5.8	5.9	190	—	—	—
	3/31/94	9.62	23.84	0	12,000	300	96	510	2,700	—	—	—
	6/8/94	9.98	23.48	0	8,700	140	35	250	1,500	—	—	—
	9/28/94[4]	—	—	—	—	—	—	—	—	—	—	—
	11/9/94[4]	—	—	—	—	—	—	—	—	—	—	—
	12/14/94[4]	—	—	—	—	—	—	—	—	—	—	—
	3/30/95	7.69	25.77	0	1,400	17	5.4	52	240	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<ppb>							
C-2	6/30/95	9.90	23.56	0	730	22	2.6	50	240	—	—	—
(cont)	9/22/95	10.61	22.85	0	2,100[8]	66	7.3	140	550	—	—	—
	12/11/95	10.38	23.08	0	3,700	23	<0.5	68	300	1,000	—	—
	3/8/96	7.70	25.76	0	2,200	19	<5.0	63	290	1,300	—	—
	6/21/96	**9.37**	**24.09**	**0**	**2,200**	**23**	**1.1**	**70**	**260**	**2,300**	**—**	**—**
C-3	6/6/89	—	—	0	2,600	63	20	390	370	—	—	—
	12/8/89	—	—	0	680	6.0	1.0	31	58	—	—	—
35.46[2]	9/7/90	15.31	20.15	0	490	6.0	<0.5	41	120	—	—	—
(d)	9/7/90	—	—	0	460	6.0	<0.5	40	110	—	—	—
	12/20/90	15.17	20.29	0	100	5.0	<0.5	27	130	—	—	—
	3/6/91	13.27	22.19	0	1,300	7.0	<0.5	75	250	—	—	—
(d)	3/6/91	—	—	0	1,400	8.0	<0.5	76	250	—	—	—
	6/28/91	13.67	21.79	0	770	6.0	<0.5	81	71	—	—	—
(d)	6/28/91	—	—	0	990	5.5	<0.5	86	75	—	—	—
	9/26/91	15.32	20.14	0	1,400	7.9	<0.5	98	340	—	—	—
	1/27/92	13.91	21.55	0	150	0.7	<0.5	12	12	—	—	—
	4/20/92	11.66	23.80	0	1,600	9.3	1.0	190	370	—	—	—
	7/17/92	13.96	21.50	0	460	18	<0.5	20	52	—	—	—
	10/29/92	15.51	19.95	0	520	2.4	1.0	30	79	—	—	—
	1/20/93	10.99	24.47	0	4,200	7.4	<0.5	140	380	—	—	—
	5/3/93	10.97	24.49	0	1,300	6.8	3.2	71	170	—	—	—
	7/28/93	12.41	23.05	0	220	1.4	<0.5	17	39	—	—	—
	10/27/93	13.37	21.78	0	1,800	5.5	0.7	68	290	—	—	—
	3/31/94	11.56[3]	23.90	0	310	1.2	<0.5	19	54	—	—	—
	6/8/94	12.07	23.39	0	300	2.7	1.6	19	48	—	—	—
	9/29/94[5]	13.84	21.62	0	2,500	<25	<25	<25	220	—	—	—
	11/9/94[6]	—	—	0	170	<0.5	0.8	3.3	16	—	—	—
	12/14/94	11.85	23.61	0	510	3.2	1.4	28	60	—	—	—
	3/30/95	9.61	25.85	0	66	<0.5	<0.5	1.1	2.4	—	—	—
	6/30/95	11.50	23.96	0	1,500	1.9	8.1	100	300	—	—	—
	9/22/95	12.58	22.88	0	600[8]	0.7	<0.5	43	110	—	—	—
	12/11/95	12.55	22.91	0	670[9]	<0.5	<0.5	7.0	13	15	—	—
	3/8/96	9.66	25.80	0	3,600	7.5	33	130	400	1,100	—	—
	6/21/96	**11.78**	**23.68**	**0**	**310**	**<0.5**	**<0.5**	**16**	**49**	**57**	**—**	**—**
C-4	6/6/89	—	—	0	<50	<0.05	<1.0	<1.0	<3.0	—	—	—
	12/8/89	—	—	0	<500	<0.5	<0.5	<0.5	<0.5	—	—	—
35.78[2]	9/7/90	15.58	20.20	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	15.42	20.36	0	170	1.0	<0.5	<0.5	4.0	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<———			ppb				———>
C-4	3/6/91	13.54	22.24	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
(cont)	6/28/91	13.93	21.85	0	<50	<0.5	<0.5	<0.5	<0.8	—	—	—
	9/26/91	15.64	20.14	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	15.64	—	0	<50	<0.5	<0.5	<0.5	—	—	—	—
	1/27/92	13.96	21.82	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	11.71	24.07	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	14.19	21.59	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	15.72	20.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	11.17	24.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	10.94	24.84	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/28/93	12.40	23.38	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
35.23	10/27/93	13.32	21.91	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94[4]	—	—	—	—	—	—	—	—	—	—	—
	6/8/94	11.92	23.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	13.76	21.47	0	<2,500	<25	<25	<25	<25	—	<0.5	ND[7]
	11/9/94[6]	—	—	0	<50	<0.5	<0.5	<0.5	<0.5	—	<0.5	ND[7]
	12/14/94	11.79	23.44	0	<50	2.1	3.0	1.9	3.7	—	1.8	ND[7]
	3/30/95	9.01	26.22	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	11.44	23.79	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	12.51	22.72	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	12.62	22.61	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	9.63	25.60	0	<50	<0.5	<0.5	<0.5	0.6	<5.0	—	—
	6/21/96	**11.24**	**23.99**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
C-5	6/6/89	—	—	0	<50	<0.05	<0.05	<1.0	<3.0	—	—	—
	12/8/89	—	—	0	<500	<0.5	<0.5	<0.5	<0.5	—	—	—
35.31[2]	9/7/90	15.10	20.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	14.94	20.37	0	80	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	13.06	22.25	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	13.46	21.85	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	15.14	20.17	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	13.31	22.00	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	11.10	24.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	13.73	21.58	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	15.20	20.11	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	10.72	24.59	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	10.43	24.88	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	7/28/93	11.81	23.50	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
34.61	10/27/93	12.68	21.93	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	11.00[3]	23.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	11.26	23.35	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<—			ppb				—>
C-5	9/29/94[5]	13.10	21.51	0	<2,500	<25	<25	<25	<25	—	—	—
(cont)	11/9/94[6]	—	—	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/14/94	11.37	23.24	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/30/95	8.97	25.64	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	10.83	23.78	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	11.89	22.72	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	11.78	22.83	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	9.02	25.59	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	6/21/96	**10.64**	**23.97**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**—**	**—**
C-6	12/8/89	—	—	0	<500	<0.5	<0.5	<0.5	<0.5	—	—	—
36.89[2]	9/7/90	16.83	20.06	0	57	<0.5	<0.5	0.6	4.0	—	—	—
	12/20/90	16.66	20.23	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	14.80	22.09	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	15.16	21.73	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	16.82	20.07	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	15.44	21.45	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	13.17	23.72	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	15.44	21.45	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	16.98	19.91	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	12.47	24.42	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	—	—	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/28/93	13.86	23.03	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
36.57	10/27/93	14.85	21.72	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	13.00	23.57	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	13.44	23.13	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	14.88	21.69	0	<2,500	<25	<25	<25	<25	—	—	—
	11/9/94[6]	—	—	0	<50	<0.5	0.5	<0.5	<0.5	—	—	—
	12/14/94	12.99	23.58	0	<50	0.9	1.5	1.3	2.6	—	—	—
	3/30/95	10.77	25.80	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	12.62	23.95	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	13.65	22.92	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	13.68	22.89	0	140[10]	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	10.73	25.84	0	<50	<0.5	0.6	<0.5	<0.5	<5.0	—	—
	6/21/96	**12.41**	**24.16**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**—**	**—**
C-7	12/8/89	—	—	0	1,700	32	12	17	150	—	—	—
32.75[2]	9/7/90	13.02	19.73	0	880	84	23	46	180	—	—	—
	12/20/90	12.28	20.47	0	560	24	3.0	19	21	—	—	—
	3/6/91	16.92	15.83	0	240	25	2.0	4.0	26	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<———			ppb				———>
C-7	6/28/91	11.31	21.44	0	2,400	130	13	82	220	—	—	—
(cont)	9/26/91	12.28	20.47	0	8,100	47	35	350	1,200	—	—	—
	1/27/92	11.43	21.32	0	12,000	170	40	420	830	—	—	—
	4/20/92	9.28	23.47	0	1,200	80	11	90	110	—	—	—
	7/17/92	11.49	21.26	0	2,400	20	7.4	95	200	—	—	—
	10/29/92	13.05	19.70	0	69	1.3	<0.5	3.8	7.2	—	—	—
	1/20/93	8.69	24.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	8.68	24.07	0	2,400	29	8.6	140	210	—	—	—
	7/28/93	9.99	22.76	0	3,600	38	16	290	920	—	—	—
32.32	10/27/93	10.72	21.60	0	22,000	23	26	990	2,600	—	—	—
	3/31/94	9.11	23.21	0	2,300	45	7.0	130	190	—	—	—
	6/8/94	9.22	23.10	0	6,900	46	11	380	820	—	—	—
	9/29/94	11.32	21.00	0	11,000	10	11	620	810	—	—	—
	11/9/94[6]	—	—	0	7,800	33	18	570	1,100	—	—	—
	12/14/94	8.99	23.33	0	7,700	63	16	140	1,200	—	—	—
	3/30/95	7.28	25.04	0	4,100	64	18	170	280	—	—	—
	6/30/95	9.07	23.25	0	1,200	31	3.7	21	18	—	—	—
	9/22/95	10.05	22.27	0	1,800	64	5.7	30	38	—	—	—
	12/11/95	9.30	23.02	0	14,000	80	6.1	91	120	70	—	—
	3/8/96	7.33	24.99	0	2,300	57	8.4	110	180	37	—	—
	6/21/96	**8.85**	**23.47**	**0**	**1,100**	**37** ↓	**3.2**	**21**	**29**	**9.0**	—	—
C-8	12/8/89	—	—	0	4,800	62	11	95	180	—	—	—
33.82[2]	9/7/90	14.32	19.50	0	3,700	170	31	180	270	—	—	—
	12/20/90	14.20	19.61	0	3,900	120	20	130	180	—	—	—
	3/6/91	14.80	19.02	0	1,200	45	6.0	34	57	—	—	—
	6/28/91	12.65	21.17	0	6,900	180	46	340	640	—	—	—
	9/26/91	14.29	19.53	0	1,400	66	9.8	38	40	—	—	—
	1/27/92	12.60	21.22	0	3,600	100	26	170	260	—	—	—
	4/20/92	10.36	23.46	0	2,600	110	32	180	260	—	—	—
	7/17/92	12.88	20.94	0	1,100	34	5.9	35	52	—	—	—
	10/29/92	14.39	19.43	0	820	29	4.8	23	27	—	—	—
	1/20/93	10.02	23.80	0	6,000	81	22	200	310	—	—	—
	5/3/93	9.75	24.07	0	11,000	75	96	880	2,600	—	—	—
	7/28/93	11.14	22.68	0	2,800	60	13	92	150	—	—	—
33.25	10/27/93	12.01	21.24	0	2,700	49	17	60	90	—	—	—
	3/31/94	10.27	22.98	0	190	8.6	1.7	9.1	11	—	—	—
	6/8/94	10.56	22.69	0	2,800	52	110	78	110	—	—	—
	9/29/94	12.42	20.83	0	3,700	120	20	120	85	—	—	—
	11/9/94[6]	—	—	0	3,200	82	44	160	110	—	—	—
	12/14/94	10.51	22.74	0	5,300	140	30	170	310	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<—			ppb				—>
C-8	3/30/95	8.44	24.81	0	3,900	86	19	180	210	—	—	—
(cont)	6/30/95	10.14	23.11	0	1,500	75	21	72	72	—	—	—
	9/22/95	11.20	22.05	0	3,400	94	24	110	110	—	—	—
	12/11/95	10.99	22.26	0	7,500	100	<0.5	160	120	130	—	—
	3/8/96	8.46	24.79	0	3,600	93	8.9	110	88	82	—	—
	6/21/96	**9.97**	**23.28**	**0**	**3,200**	**69**	**6.8**	**100**	**88**	**19**	—	—
C-9/												
33.43[2]	9/7/90	14.06	19.37	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	14.03	19.40	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	12.12	21.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	12.41	21.02	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	14.02	19.41	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	12.53	20.90	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	10.22	23.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	12.64	20.79	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	14.20	19.23	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	9.72	23.71	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	9.55	23.66	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/28/93	10.98	22.45	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
32.97	10/27/93	11.98	20.99	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	10.17	22.80	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	6/8/94	10.53	22.44	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	12.40	20.57	0	<5,000	<50	<50	<50	<50	—	—	—
	11/9/94[6]	—	—	0	<50	<0.5	<0.5	<0.5	0.7	—	—	—
	12/14/94	10.49	22.48	0	69	1.1	2.2	3.4	7.8	—	—	—
	3/30/95	8.20	24.77	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	9.97	23.00	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	11.07	21.90	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	11.08	21.89	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/8/96	8.20	24.77	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	6/21/96	**9.81**	**23.16**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
C-10/												
31.63[2]	9/7/90	12.49	19.14	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	12.36	19.27	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	10.45	21.18	0	<50	<0.5	0.8	<0.5	0.8	—	—	—
	6/28/91	10.74	20.69	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	12.42	19.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	10.84	20.79	0	<50	<0.5	1.3	<0.5	<0.5	—	—	—
(d)	1/27/92	—	—	0	<50	<0.5	1.3	<0.5	<0.5	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<--------			ppb				-------->
C-10	4/20/92	8.55	23.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
(cont)	7/17/92	11.02	20.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	12.40	19.23	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	8.14	23.49	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	7.92	23.71	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	7/28/93	9.36	22.27	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
31.16	10/27/93	10.30	20.86	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	8.45	22.71	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	8.85	22.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	10.70	20.46	0	<5,000	<50	<50	<50	<50	—	—	—
	11/9/94[6]	—	—	0	<50	<0.5	1.4	0.8	1.2	—	—	—
	12/14/94	8.61	22.55	0	110	3.9	5.4	4.3	11	—	—	—
	3/30/95	6.65	24.51	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	8.30	22.86	0	<50	1.5	1.5	<0.5	2.2	—	—	—
	9/22/95	9.41	21.75	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	9.27	21.89	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	6.63	24.53	0	<50	<0.5	<0.5	<0.5	0.5	<5.0	—	—
	6/21/96	**8.12**	**23.04**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**—**	**—**
C-11/												
31.58[2]	9/7/90	12.22	19.36	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	12.08	19.50	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	16.15	15.43	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	10.52	21.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	12.20	19.38	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	10.73	20.85	0	<50	<0.5	0.8	<0.5	<0.5	—	—	—
	4/20/92	8.56	23.02	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	10.78	20.80	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	12.07	19.51	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	7.97	21.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	7.95	23.63	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	7/28/93	9.31	22.27	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
31.23	10/27/93	10.17	21.06	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	8.43	22.80	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	8.76	22.47	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94	10.54	20.69	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	11/9/94	—	—	0	<50	<0.5	0.6	<0.5	0.7	—	—	—
	12/14/94	8.50	22.73	0	51	1.1	1.7	1.6	4.0	—	—	—
	3/30/95	6.85	24.38	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	8.34	22.89	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	9.30	21.93	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	9.01	22.22	0	<50	<0.5	<0.5	<0.5	1.1	1.1	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<---------- ppb ---------->							
C-11 (cont)	3/8/96	6.90	24.33	0	<50	<0.5	0.6	<0.5	1.6	<5.0	—	—
	6/21/96	**8.10**	**23.13**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
Trip Blank	9/7/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/28/93	—	—	—	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	10/27/93	—	—	—	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	—	—	—	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	6/8/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	11/9/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/14/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/30/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/8/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	6/21/96	—	—	—	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
DTSC MCLs	—	—	—	—	—	NE	1.0	100	680	1,750	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, 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-teritary-butyl ether
C = Chloroform
HVOC = Halogenated Volatile Organic Compounds
DTSC = Department of Toxic Substances Control
MCLs = Maximum Contaminant Level
NE = Not established
ppb = Parts per billion
--- = Not available/not applicable

ANALYTICAL METHODS:

TPH(G) = EPA Method 8015/5030
BTEX = EPA Method 8020
MTBE = Methyl-teritary-butyl ether
HVOC's = EPA Method 8010

NOTES:

Analytical results and groundwater elevation data prior to 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Sierra Environmental Servcies.

* A product thichness measured with an MMC flexi-dip interface probe.

[1] Groundwater Elevation = [(Top-of-casing elevation - depth to water) + (0.8 x hydrocarbon thickness)]. The assumed specific gravity for free-phase hydrocarbons is 0.8.
[2] Elevation of well box.
[3] Depth to water measured from top of well vault.
[4] Well inaccessible due to down-hole extraction equipment.
[5] Detection limit raised due to foaming sample.
[6] All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 9/29/94 event.
[7] Other HVOCs were not detected at detection limits of 0.5 - 1.0 ppb.
[8] Laboratory report indicates uncategorized compounds are not included in gasoline concentration.
[9] Laboratory report indicates gasoline + unidentified hydrocarbons >C8.
[10] Laboratory report indicates unidentified hydrocarbons >C12.

5259.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: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-1 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" - (3") in | Hydrocarbon Thickness: 0

Total Depth: 19' ft

Depth to Liquid: 9.28 ft

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

# of casing Volume: 3x 9.72 x 0.17 - 0.38 x(VF) 3.7 | #Estimated purge Volume: 11 gal.

Purge Equipment: (Suction) Stack | Sampling Equipment: Bailer

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

Starting Time: 1030 | Purging Flow Rate: 2 gpm.

Sampling Time: 1039

Time	pH	Conductivity	Temperature	Volume
1032	6.78	53 E	21.4	4
1034	6.75	562	21.0	8
1036	6.73	560	21.0	12
1039	6.75	562	20.9	13

Weather Conditions: Sunny warm Breezy

Water Color: Clear / Black | Odor: Mild

Sediment Description: Light Bacteria

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-1	3x40ml VOA	Y	HCl	CTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-2 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" - ~~3~~ in | Hydrocarbon Thickness: 0

Total Depth: 20' ft

Depth to Liquid: 9.37 ft

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

# of casing Volume: 3x | 10.63 x 0.17 ~~0.38~~ x(VF) 9.0 | #Estimated purge Volume: 12.1 gal.

Purge Equipment: Suction Stack | Sampling Equipment: Bailer

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

Starting Time: 1043 | Purging Flow Rate: 2 gpm.

Sampling Time: 1052

Time	pH	Conductivity	Temperature	Volume
1045	6.76	541	20.9	4
1047	6.71	~~490~~ 558	20.7	8
1049	6.72	548	20.4	12
1052	6.71	556	20.4	13

Weather Conditions: Sunny Warm Breezy

Water Color: Grey | Odor: Mild

Sediment Description: Silty Bouvia

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-2	3x40ml VOA	Y	HCl	CTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-3 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" - (3") in | Hydrocarbon Thickness: 0

Total Depth: 19' ft

Depth to Liquid: 11.78 ft

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

# of casing Volume: 3X 7.22 x 0.17 - (0.38) x(VF) 2.7 #Estimated purge Volume: 8.2 gal.

Purge Equipment: Suction Stack | Sampling Equipment: Bailer

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

Starting Time: 1016 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 1025

Time	pH	Conductivity	Temperature	Volume
1018	6.89	570	20.4	3
1020	6.88	568	20.2	6
1022	6.90	567	20.3	9
1025	6.89	567	20.4	12

Weather Conditions: Sunny Warm Breezy

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-3	3x40ml VOA	Y	HCl	GTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-4 | Well Condition: Clay

Well Location Description:

Well Diameter: 2" - (8") in | Hydrocarbon Thickness: 0

Total Depth: 20' ft

Depth to Liquid: 11.24 ft

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

# of casing Volume: 3x | 8.76 | x (0.17 - 0.38) | x(VF) 3.3 | #Estimated purge Volume: 9.9 gal.

Purge Equipment: (Suction) Stack | Sampling Equipment: Bailer

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

Starting Time: 9:52 | Purging Flow Rate: 1.7 gpm.

Sampling Time: 1000

Time	pH	Conductivity	Temperature	Volume
954	6.90	631	20.8	3.4
956	6.93	643	20.7	6.8
958	6.92	642	20.8	10.2
1000	6.92	643	20.7	11.0

Weather Conditions: Sunny warm Breezy

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

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

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-5 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" - (3") in | Hydrocarbon Thickness: 0

Total Depth: 15' ft

Depth to Liquid: 10.64 ft

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

# of casing Volume: 3x 9.36 x 0.17 (0.38) x(VF) 1.7 | #Estimated purge Volume: 9.9 gal.

Purge Equipment: (Suction) Stack | Sampling Equipment: Bailer

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

Starting Time: 9:44 | Purging Flow Rate: 2 gpm.

Sampling Time: 952

Time	pH	Conductivity	Temperature	Volume
946	7.50	693	16.9	2
948	7.25	597	20.5	4
950	7.10	610	20.7	6
952	7.12	608	20.6	7

Weather Conditions: Sunny warm Breezy

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-5	3x40ml VOA	Y	HCl	CTEL	GAS BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-6 | Well Condition: Okay

Well Location Description:

Well Diameter: (2") - 3" in | Hydrocarbon Thickness: 0

Total Depth: 23' ft

Depth to Liquid: 12.41 ft

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

# of casing Volume: 3X 10.59 x (0.17) 0.38 x(VF) 1.8 #Estimated purge Volume: 54 gal.

Purge Equipment: (Suction) Stack | Sampling Equipment: Bailer

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

Starting Time: 1005 | Purging Flow Rate: 1 gpm.

Sampling Time: 1013

Time	pH	Conductivity	Temperature	Volume
1007	6.90	670	21.4	2
1009	6.87	668	20.9	4
1011	6.88	669	20.8	6
1013	6.87	671	20.9	7

Weather Conditions: Sunny warm Breezy

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-6	3x40ml VOA	Y	HCl	CTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline — DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd — JOB #: 9-0504

CITY: San Lorenzo CA — SS#: 5259.85

Well ID: C-7 — Well Condition: clear

Well Location Description:

Well Diameter: (2") 3" in — Hydrocarbon Thickness: 0

Total Depth: 24' ft

Depth to Liquid: 8.85 ft

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

# of casing Volume: 3x 15.15 x 0.17 - 0.38 x(VF) 2.6 #Estimated purge Volume: 7.7 gal.

Purge Equipment: Suction (Truck) — Sampling Equipment: Bailer

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

Starting Time: 742 — Purging Flow Rate: 1.5 gpm.

Sampling Time: 751

Time	pH	Conductivity	Temperature	Volume
744	6.85	541	19.9	3
746	6.79	594	20.3	6
748	6.80	591	20.2	9
751	6.80	592	20.2	10

Weather Conditions: Sunny warm Breezy

Water Color: Clear — Odor: Mild

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-7	3x40ml VOA	Y	HCl	CTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-8 | Well Condition: clay

Well Location Description:

Well Diameter: (2") 3" in | Hydrocarbon Thickness: 6

Total Depth: 24' ft

Depth to Liquid: 9.97 ft

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

# of casing Volume: 3x 14.03 x 0.17 - 0.38 x(VF) 2.4 | #Estimated purge Volume: 7.2 gal.

Purge Equipment: Suction (Truck) | Sampling Equipment: Bailer

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

Starting Time: 859 80C | Purging Flow Rate: 1.5 gpm.

Sampling Time: 809

Time	pH	Conductivity	Temperature	Volume
802	6.90	542	20.0	3
804	6.85	547	20.3	6
806	6.88	550	20.2	9
809	6.84	548	20.2	10

Weather Conditions: Sunny Warm Breezy

Water Color: Clear | Odor: Mild

Sediment Description: Na.

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-8	3x40ml VOA	Y	HCl	GTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-9 | Well Condition: Clear

Well Location Description:

Well Diameter: (2") - 3" in | Hydrocarbon Thickness: 0

Total Depth: 24 ft

Depth to Liquid: 9.81 ft

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

# of casing Volume: 3x 14.19 x (0.17) 0.38 x(VF) 2.4 #Estimated purge Volume: 7.2 gal.

Purge Equipment: Suction (Stack) | Sampling Equipment: Bailer

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

Starting Time: 7:16 | Purging Flow Rate: 1.2 gpm.

Sampling Time: 724

Time	pH	Conductivity	Temperature	Volume
718	7.35	230	17.1	2.4
720	7.53	163	17.2	4.8
722	7.51	161	17.3	7.2
724	7.52	162	17.2	8.0

Weather Conditions: Sunny warm Breezy

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-9	3x40ml VOA	Y	HCl	GTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-10 | Well Condition: Okay

Well Location Description:

Well Diameter: (2"- 3" in | Hydrocarbon Thickness: 0

Total Depth: 24' ft

Depth to Liquid: 8.12 ft

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

# of casing Volume: 3x 15.88 x 0.17 - 0.38 x(VF) 2.6 #Estimated purge Volume: 8.0 gal.

Purge Equipment: Suction (Stack) | Sampling Equipment: Bailer

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

Starting Time: 702 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 711

Time	pH	Conductivity	Temperature	Volume
704	7.00	706	19.8	3
706	6.92	627	20.6	6
708	6.89	628	20.3	9
711	6.90	625	20.4	10

Weather Conditions: Sunny warm Breezy

Water Color: clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C - 10	3x40ml VOA	Y	HCl	CTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Frank Cline | DATE: 6-20-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 9-0504

CITY: San Lorenzo CA | SS#: 5259.85

Well ID: C-11 | Well Condition: Okay

Well Location Description:

Well Diameter: (2") 3" in | Hydrocarbon Thickness: 0

Total Depth: 24 ft

Depth to Liquid: 8.10 ft

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

# of casing Volume: 3x 15.90 x (17) 0.38 x(VF) 2.7 | #Estimated purge Volume: 811 gal.

Purge Equipment: Suction (Stack) | Sampling Equipment: Bailer

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

Starting Time: 727 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 736

Time	pH	Conductivity	Temperature	Volume
729	7.20	394	19.3	3
731	7.14	485	19.6	6
733	7.10	480	19.6	9
736	7.12	483	19.6	10

Weather Conditions: Sunny Warm Breezy

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-11	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: 9-0504
Facility Address: 15900 Hesperian Blvd San Lorenzo CA
Consultant Project Number: 5259.95
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): 842-8134 9136
Laboratory Name: CTEL
Laboratory Release Number: 3471200
Samples Collected by (Name): F. Cline
Collection Date: 6-21-96
Signature:

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)	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)						
								Analyses To Be Performed													
TB-LB	24961	1	2	W	TB	—	HCl	Y	X												
C-11	24962	2	3		G	736															
C-10	24963	3				711															
C-9	24964	4				729															
C-5	24965	5				952															
C-4	24966	6				1000															
C-6	24967	7				1013															
C-1	24968	8				1039															
C-3	24969	9				1025															
C-2	24970	10				1052															
C-7	24971	11				751															
C-8	24972	12	↓	↓	↓	809	↓	↓													

DO NOT BILL
TB-LB ANALYSIS
1 oc
No Seals

Remarks

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	C&R	6-21-96 1400	John Weber	NEI/GTEL	6-21-96 1400
John Weber	NEI/GTEL	6-21-96 1645			
			Received For Laboratory By (Signature)		Date/Time
			Dan Smith		6/22/96 6:30

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

COC-3.DWG/03 91/HCH

202 650 5330

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

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

July 1, 1996

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

RE: GTEL Client ID: GTR01CHV08
Login Number: W6060391
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 06/22/96.

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.

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6060391
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6060391-01	W6060391-02	W6060391-03	W6060391-04
Client ID	TB-LB	C-11	C-10	C-9
Date Sampled		06/21/96	06/21/96	06/21/96
Date Analyzed	06/29/96	06/29/96	06/29/96	06/29/96
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: W6060391
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6060391-05	W6060391-06	W6060391-07	W6060391-08
Client ID	C-5	C-4	C-6	C-1
Date Sampled	06/21/96	06/21/96	06/21/96	06/21/96
Date Analyzed	06/29/96	06/29/96	06/29/96	06/29/96
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	1300
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	9.0
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	94.
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	83.
BTEX (total)	--	ug/L	--	--	--	190
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	2800

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: W6060391
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6060391-09	W6060391-10	W6060391-11	W6060391-12
Client ID	C-3	C-2	C-7	C-8
Date Sampled	06/21/96	06/21/96	06/21/96	06/21/96
Date Analyzed	06/29/96	06/29/96	06/29/96	06/29/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	57.	2300	9.0	19.
Benzene	0.5	ug/L	< 0.5	23.	37.	69.
Toluene	0.5	ug/L	< 0.5	1.1	3.2	6.8
Ethylbenzene	0.5	ug/L	16.	70.	21.	100
Xylenes (total)	0.5	ug/L	49.	260	29.	88.
BTEX (total)	--	ug/L	65.	350	90.	260
TPH as Gasoline	50	ug/L	310	2200	1100	3200

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: W6060391 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A		Acceptability Limits:	43-136%
062896GC10-1	CV0628962010	Calibration Verifi	122.
062896GC10-3	BW06289610	Method Blank Water	102.
062896GC10-4	MS06040504	Matrix Spike	121.
062896GC10-6	DP06040903	Duplicate	115.
--	06039101	TB-LB	107.
--	06039102	C-11	106.
--	06039103	C-10	112.
--	06039104	C-9	113.
--	06039105	C-5	112.
--	06039106	C-4	114.
--	06039107	C-6	113.
--	06039108	C-1	126.
--	06039109	C-3	121.
--	06039110	C-2	133.
--	06039111	C-7	128.
--	06039112	C-8	114.

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

Project ID (Number): 5259.85
Project ID (Name): Chevron SS #6-0504
15900 Hesperian Blvd.
Lorenzo, CA
Work Order Number: W6-06-0391
Date Reported: 07-01-96

METHOD BLANK REPORT

Volatile Organics in Water
EPA Method 8020

Date of Analysis: 29-June-96 QC Batch No: 062896GC10-3

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: W6060391
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/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:062896GC10-1			
Benzene		20.0	18.9	94.5	77-123%
Toluene		20.0	20.3	102.	77.5-122.5%
Ethylbenzene		20.0	19.8	99.0	63-137%
Xylenes (Total)		60.0	62.5	104.	85-115%
TPH as Gasoline		500.	444.	88.8	80-120%

Notes:
QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08
Login Number: W6060391
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/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: 062896GC10-6	GTEL Sample ID: W6060409-03		Client ID: Batch QC
MTBE	35.6	29.3	19.4	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

Notes:

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6060391 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6060405-04			MS ID:MS06040504		
Analysis Date: 28-JUN-96			28-JUN-96		
Units: ug/L	Sample	Spike	MS	MS	Acceptability Limits
Analyte	Conc.	Added	Conc.	% Rec.	%Rec.
Benzene	< 0.5 (0.000)	20.0	20.8	104.	67-110
Toluene	< 0.5 (0.000)	20.0	22.2	111.	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	21.6	108.	65-120
Xylenes (Total)	< 0.5 (0.000)	60.0	67.1	112.	62-119

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

GTEL Client ID: GTR01CHV08
Login Number: W6060391
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
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: