GETTLER-RYAN INC.

9/16/96

April 12, 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
115900 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Briggs:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On March 8, 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 115900 Hesperian Boulevard in San Lorenzo, California.

Static groundwater levels were measured on March 8, 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 - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by GTEL Environmental Laboratories, Inc.. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

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

Sincerely,

Deanna L. Harding
Project Coordinator

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

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

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

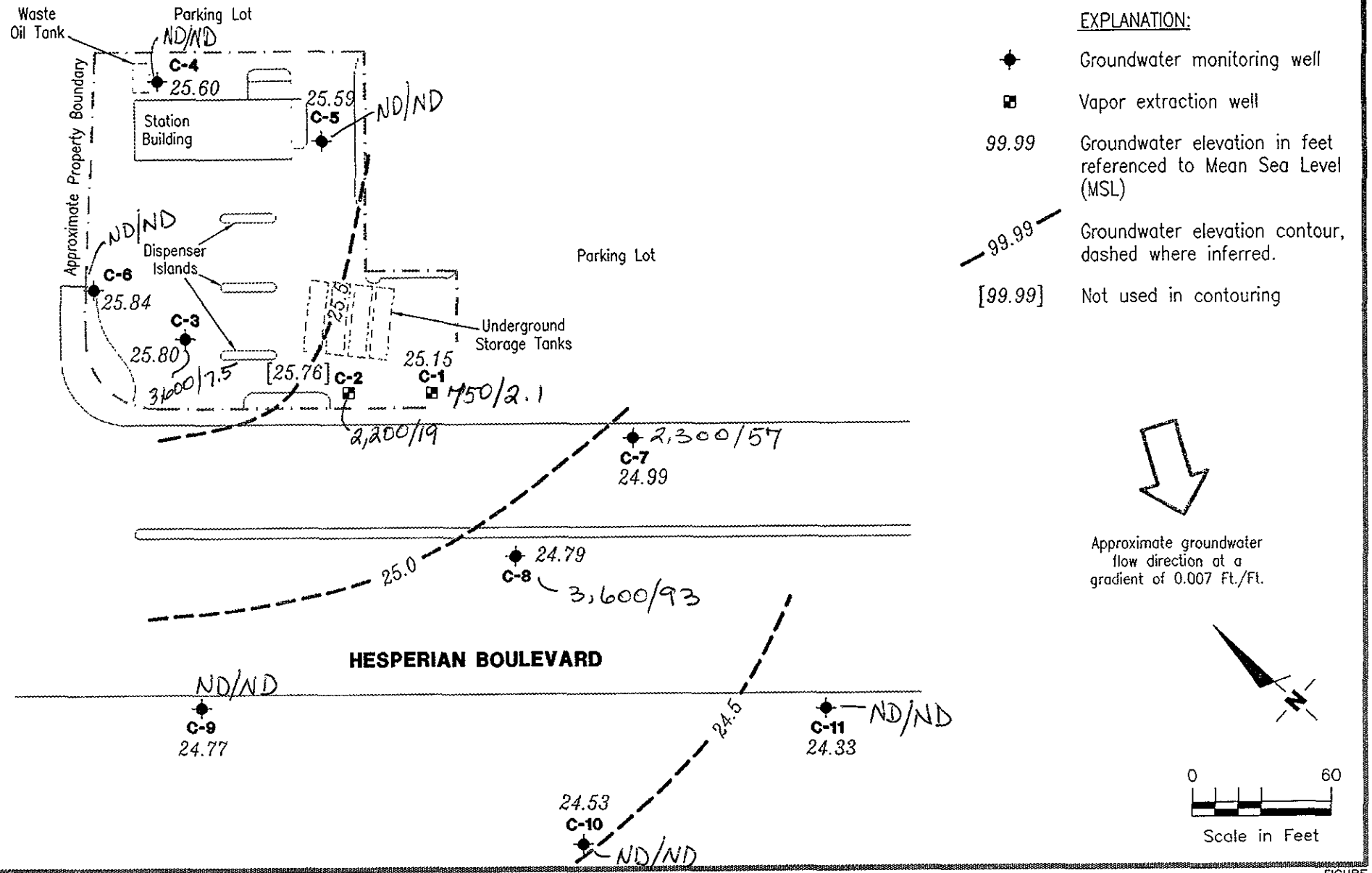

FIGURE 1

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

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5259		March 8, 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[8]	0.7	<0.5	3.3	3.5	—	—	—
	12/11/95	10.30	22.50	0	210	2.4	<0.50	43	85	79	—	—
	3/8/96	**7.65**	**25.15**	**0**	**750**	**2.1**	**<0.5**	**22**	**34**	**330**	—	—
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	—	—	—
	6/30/95	9.90	23.56	0	730	22	2.6	50	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	9/22/95	10.61	22.85	0	2,100[8]	66	7.3	140	550	—	—	—
(cont)	12/11/95	10.38	23.08	0	3,700	23	<0.50	68	300	1,000	—	—
	3/8/96	**7.70**	**25.76**	**0**	**2,200**	**19**	**<5.0**	**63**	**290**	**1,300**	**—**	**—**
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]	<0.50	<0.50	7.0	13	15	—	—
	3/8/96	**9.66**	**25.80**	**0**	**3,600**	**7.5**	**33**	**130**	**400**	**1,100**	**—**	**—**
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	—	—	—
	3/6/91	13.54	22.24	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	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	—	—	—

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	9/26/91	15.64	—	0	<50	<0.5	<0.5	<0.5	—	—	—	—
(cont)	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	<0.50	<0.50	<0.50	<0.50	<0.50	—	—
	3/8/96	**9.63**	**25.60**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**0.6**	**<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	—	—	—
	9/29/94[5]	13.10	21.51	0	<2,500	<25	<25	<25	<25	—	—	—
	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	—	—	—

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	6/30/95	10.83	23.78	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
(cont)	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	<0.50	<0.50	<0.50	<0.50	<0.50	—	—
	3/8/96	**9.02**	**25.59**	**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]	<0.50	<0.50	<0.50	<0.50	<0.50	—	—
	3/8/96	**10.73**	**25.84**	**0**	**<50**	**<0.5**	**0.6**	**<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	—	—	—
	6/28/91	11.31	21.44	0	2,400	130	13	82	220	—	—	—
	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	—	—	—

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	1/20/93	8.69	24.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
(cont)	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**	—	—
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	—	—	—
	3/30/95	8.44	24.81	0	3,900	86	19	180	210	—	—	—
	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	<0.50	160	120	130	—	—
	3/8/96	**8.46**	**24.79**	**0**	**3,600**	**93**	**8.9**	**110**	**88**	**82**	—	—

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-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	<1.5	—	—	—
	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	<0.5	—	—	—
	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	<0.50	<0.50	<0.50	<0.50	<0.50	—	—
	3/8/96	8.20	24.77	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	—	—	—
	4/20/92	8.55	23.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	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	—	—	—

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	6/8/94	8.85	22.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
(cont)	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	<0.50	<0.50	<0.50	<0.50	<0.50	—	—
	3/8/96	**6.63**	**24.53**	**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	<0.50	<0.50	<0.50	1.1	1.1	—	—
	3/8/96	**6.90**	**24.33**	**0**	**<50**	**<0.5**	**0.6**	**<0.5**	**1.6**	**<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	—	—	—

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	------	------	------	------>
Trip Blank	1/27/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
(cont)	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	<1.5	---	---	---
	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	<0.5	---	---	---
	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	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	3/8/96	---	---	---	**<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
QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss pevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during purging. Purging continues until these parameters stabilize.

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

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

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

As requested by Chevron USA Products Company, the purge and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
CITY: San Lorenzo CA
JOB #: 5259.85
SS#: 9-0504
Well ID: C-1
Well Location Description:
Well Condition: okay
Well Diameter: 2" (3") in
Hydrocarbon Thickness: 0
Total Depth: 19' ft
Depth to Liquid: 7.65 ft

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

# of casing Volume: 3 x 11.35 x (0.17 + 0.38 x (VF) 4.5) = #Estimated purge Volume: 12.9 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: NO
If yes, Time: ___ Volume: ___
Starting Time: 12:26
Sampling Time: 12:35
Purging Flow Rate: 2.2 gpm.

Time	pH	Conductivity	Temperature	Volume
12:28	6.96	535	21.1	9.4
12:30	6.90	548	21.0	8.8
12:32	6.89	546	21.1	18.2
12:35	6.90	548	21.1	14.0

Weather Conditions: Partly Cloudy
Water Color: Black
Sediment Description: Black Bauxia
Odor: Mild

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-1	3x40ml VOA	Y	HCL	CoTEL	GAS BTXE MTBE

Comments: Pulled DTHE & Replaced after sampling
Not Operating

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 3-8-96

ADDRESS 15900 Hesperian Blvd JOB # 5259.85

CITY San Lorenzo CA SS# 9-0504

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 7.70 ft

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

# of casing Volume 3 x 12.30 x 0.17 - 0.38 x (VF) 4.6 #Estimated purge Volume 14 gal.

Purge Equipment Suction Sampling Equipment Bailer

Did well dewater NC If yes, Time ___ Volume

Starting Time 1240

Sampling Time 1249

Purging Flow Rate 2.3 gpm.

Time	pH	Conductivity	Temperature	Volume
12:42	6.71	340	19.6	4.6
1244	6.64	484	19.7	9.2
1246	6.61	452	19.7	13.8
1249	6.63	450	19.7	18.4

Weather Conditions Partly Cloudy & Warm

Water Color: Black

Sediment Description Black Bauxia Odor: Mild

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-2	3x40ml VOA	Y	HCL	CTEL	GC/BTXE MTBE

Comments Pull DHE & replaced after sampling

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

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: 9.66 ft

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

# of casing Volume: 3 x 9.34 x 0.17 – (0.38) x (VF) 3.5 #Estimated purge Volume: 10.6 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: No
If yes, Time: Volume:
Starting Time: 1151
Sampling Time:
Purging Flow Rate: 2 gpm.

Time	pH	Conductivity	Temperature	Volume
1153	6.76	659	20.7	4
1155	6.79	655	20.7	8
1157	6.80	655	20.6	12
1200	6.79	652	20.7	13

Weather Conditions: Partly cloudy warm
Water Color: Clear
Sediment Description: None
Odor: Mild

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-3	3x40ml VOA	Y	HCL	CTEL	GC/MS BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

Well ID: C-4
Well Condition: Okay
Well Location Description:
Well Diameter: 2" (3") in
Hydrocarbon Thickness: 0
Total Depth: 20' ft
Depth to Liquid: 9.63 ft

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

# of casing Volume: 3 x 10.37 x 0.17 - 0.38 x (VF) 3.9 = #Estimated purge Volume 11.8 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: N/C
If yes, Time: ___ Volume:

Starting Time: 1116
Sampling Time: 1123
Purging Flow Rate: 2 gpm.

Time	pH	Conductivity	Temperature	Volume
1118	6.73	729	22.9	4
1120	6.63	736	22.4	8
1122	6.60	738	22.4	12
1123	6.62	737	22.4	13

Weather Conditions: Partly Cloudy
Water Color: Clear
Odor: None
Sediment Description: No

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-4	3x40ml VOA	Y	HCL	CTEL	8260 BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

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: 9.02 ft

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

# of casing Volume: 3 x 5.98 x 0.17 - 0.38 x (VF) 2.3 = #Estimated purge Volume: 6.9 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: No
If yes, Time: ___ Volume: ___

Starting Time: 1105
Sampling Time: 1114
Purging Flow Rate: 1.2 gpm.

Time	pH	Conductivity	Temperature	Volume
1107	6.58	585	21.8	2.4
1109	6.64	619	21.8	4.8
1111	6.61	636	21.4	7.2
1114	6.60	635	21.5	8.0

Weather Conditions: Partly cloudy Warm
Water Color: None
Sediment Description: None
Odor: 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: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

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: 10.73 ft

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

# of casing Volume: 3 x 12.27 x (0.17 - 0.38 x (VF) 2.1) #Estimated purge Volume: 6.3 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: No
If yes, Time: ___ Volume: ___
Starting Time: 1137
Sampling Time: 1146
Purging Flow Rate: 1.1 gpm.

Time	pH	Conductivity	Temperature	Volume
1139	6.54	731	21.7	2.2
1141	6.59	737	21.8	4.4
1143	6.60	737	21.8	6.6
1146	6.57	736	21.7	7.0

Weather Conditions: Partly cloud warm
Water Color: Clear
Sediment Description: Non
Odor: Non

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: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

Well ID: C-7
Well Condition: okay
Well Location Description:
Well Diameter: 2" 3" in
Hydrocarbon Thickness: 0
Total Depth: 24' ft
Depth to Liquid: 7.33 ft

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

# of casing Volume: 3 x 16.67 x (0.17 - 0.38 x (VF) 2.8) #Estimated purge Volume: 8.5 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: NC
If yes, Time: ___ Volume: ___

Starting Time: 1307
Sampling Time:
Purging Flow Rate: 1.5 gpm.

Time	pH	Conductivity	Temperature	Volume
1309	6.86	549	21.6	3
1311	6.77	614	21.4	6
13:13	6.71	615	21.6	9
13:16	6.76	614	21.5	10

Weather Conditions: ~~Sunny~~ Partly Cloudy Warm
Water Color: Clear
Sediment Description: None
Odor: Strong

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-7	3x40ml VOA	Y	HCL	CTEL	602 BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

Well ID: C-8
Well Condition: okay
Well Location Description:
Well Diameter: ~~2"~~ 3" in
Hydrocarbon Thickness: 0
Total Depth: 24' ft
Depth to Liquid: 8.46 ft

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

# of casing Volume: 3 x 15.54 x 0.17 - 0.38 x (VF) 2.6 #Estimated purge Volume: 7.9 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: No
If yes, Time: ___ Volume: ___
Starting Time: 1255
Sampling Time: 1304
Purging Flow Rate: ~~okay~~ 1.3 gpm.

Time	pH	Conductivity	Temperature	Volume
1257	6.89	583	22.9	2.6
1259	6.85	583	22.4	5.2
1301	6.86	594	22.6	7.8
1304	6.85	589	22.6	8.1

Weather Conditions: Partly Cloudy warm
Water Color: Clear
Sediment Description:
Odor: Mild

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-8	3x40ml VOA	Y	HCL	CTEL	GAS BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 3-8-96

ADDRESS: 15900 Hesperian Blvd | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-9 | Well Condition: Okay

Well Location Description:

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

Total Depth: 24' ft

Depth to Liquid: 8.20 ft

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

# of casing Volume: 3 x 15.80 x 0.17 - 0.38 x (VF) 2.7 | #Estimated purge Volume: 8.1 gal.

Purge Equipment: Suction | Sampling Equipment: Bailer

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

Starting Time: 9:59 | Purging Flow Rate: 1.5 gpm.

Sampling Time:

Time	pH	Conductivity	Temperature	Volume
1001	7.33	170	19.8	3
1003	~~7.03~~ 6.98	172	19.6	6
1005	6.96	171	19.6	9
1008	6.98	170	19.7	10

Weather Conditions: Sunny Clear

Water Color: Clear | Odor: None

Sediment Description: Non-

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-9	3x40ml VOA	Y	HCL	CTEL	Cons BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

Well ID: C-10
Well Condition: clear
Well Location Description:
Well Diameter: 2"-3" in
Hydrocarbon Thickness: 0
Total Depth: 24' ft
Depth to Liquid: 6.63 ft

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

# of casing Volume: 3 x 1.737 x (0.17 - 0.38 x (VF) 2.4) = #Estimated purge Volume 8.9 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: NO
If yes, Time: ____ Volume: ____
Starting Time: 10:10
Sampling Time: ____
Purging Flow Rate: 1.5 gpm.

Time	pH	Conductivity	Temperature	Volume
10:12	6.40	609	21.6	3
10:14	6.42	624	21.9	6
10:16	6.44	623	21.8	9
10:14	6.40	623	21.9	10

Weather Conditions: Sunny Clear
Water Color: clear
Sediment Description: None
Odor: None

LABORATORY INFORMATION

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

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 3-8-96
ADDRESS: 15900 Hesperian Blvd
JOB #: 5259.85
CITY: San Lorenzo CA
SS#: 9-0504

Well ID: C-11
Well Condition: Clay
Well Location Description:
Well Diameter: 2"-3" in
Hydrocarbon Thickness: 0
Total Depth: 24' ft
Depth to Liquid: 6.90 ft

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

# of casing Volume: 3 x 17.10 x 0.17 - ~~0.38~~ x (VF) 2.9 #Estimated purge Volume: 8.7 gal.

Purge Equipment: Suction
Sampling Equipment: Bailer
Did well dewater: N/C
If yes, Time: ___ Volume: ___

Starting Time: 1022
Sampling Time:
Purging Flow Rate: 1.5 gpm.

Time	pH	Conductivity	Temperature	Volume
1024	6.13	525	21.1	3
1026	6.10	~~527~~ 541	20.9	6
10:28	6.11	538	20.9	9
10:31	6.10	546	20.8	10

Weather Conditions: Sunny Clear
Water Color: Clear
Sediment Description: N/A
Odor: N/A

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-11	3x40ml VOA	Y	HCL	CTEL	Comp BTXE MTBE

Comments:

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ 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: 9-0504
Facility Address: 15900 Hesperian Blvd San Lorenzo CA
Consultant Project Number: 5259185
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): Mark Miller
(Phone): 842-8134
Laboratory Name: GTEL
Laboratory Release Number: 3471200
Samples Collected by (Name): F. Cline
Collection Date: 3-8-96
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015) (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
TB-43	1	2	W	TB	—	HCl	Y	X												DO NOT BILL TB-LB ANALYSI
C-9	2	3		G																
C-10	3																			
C-11	4																			
C-4	5																			
C-5	6																			
C-6	7																			
C-1	8																			
C-3	9																			
C-2	10																			No Seals
C-8	11																			4E
C-7	12	↓	↓	↓		↓	↓	↓												
																				702 651 6976

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
	C&R	3-8-96 3:40	John Welby	GTEL	3-8-96 3:40	24 Hrs.
John Welby	GTEL	3-8-96 16:10				48 Hrs.
						5 Days
						10 Days
			Received For Laboratory By (Signature)		Date/Time	As Contracted
			Tammy Nielsen		3/9/96 0910	

COC-3.DWG/03 91/mCH

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

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

March 19, 1996

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

RE: GTEL Client ID: GTR01CHV08
Login Number: W6030169
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 03/09/96.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the Department of Health Service under Certification Number 1845.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Justin Ward, Project Coordinator for
Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6030169
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020
Matrix: Aqueous

	GTEL Sample Number	W6030169-01	W6030169-02	W6030169-03	W6030169-04
	Client ID	TB-LB	C-9	C-10	C-11
	Date Sampled		03/08/96	03/08/96	03/08/96
	Date Analyzed	03/19/96	03/19/96	03/19/96	03/19/96
	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	0.6
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	1.6
BTEX (total)	--	ug/L	--	--	0.5	2.2
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	< 50

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update I.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6030169
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	W6030169-05	W6030169-06	W6030169-07	W6030169-08
Client ID	C-4	C-5	C-6	C-1
Date Sampled	03/08/96	03/08/96	03/08/96	03/08/96
Date Analyzed	03/19/96	03/19/96	03/19/96	03/19/96
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	330
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	2.1
Toluene	0.5	ug/L	< 0.5	< 0.5	0.6	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	22.
Xylenes (total)	0.5	ug/L	0.6	< 0.5	< 0.5	34.
BTEX (total)	--	ug/L	0.6	--	0.6	58.
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	750

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*", SW-846, Third Edition including Update 1.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6030169
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	W6030169-09	W6030169-10	W6030169-11	W6030169-12
Client ID	C-3	C-2	C-8	C-7
Date Sampled	03/08/96	03/08/96	03/08/96	03/08/96
Date Analyzed	03/19/96	03/19/96	03/19/96	03/19/96
Dilution Factor	10.0	10.0	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	1100	1300	82.	37.
Benzene	0.5	ug/L	7.5	19.	93.	57.
Toluene	0.5	ug/L	33.	< 5.0	8.9	8.4
Ethylbenzene	0.5	ug/L	130	63.	110	110
Xylenes (total)	0.5	ug/L	400	290	88.	180
BTEX (total)	--	ug/L	570	370	300	360
TPH as Gasoline	50	ug/L	3600	2200	3600	2300

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution

EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030169 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA Matrix: Aqueous

Conformance/Non-Conformance Summary

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

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030169 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020
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 8020		Acceptability Limits:	43-136%
031896GC17-1	BW03189617	Method Blank Water	109.
031896GC17-3	CV0318962017A	Calibration Verifi	106.
031896GC17-5	MS03016903	Matrix Spike	107.
031896GC17-6	DP03016910	Duplicate	109.
--	03016901	TB-LB	101.
--	03016902	C-9	102.
--	03016903	C-10	103.
--	03016904	C-11	106.
--	03016905	C-4	105.
--	03016906	C-5	96.5
--	03016907	C-6	106.
--	03016908	C-1	107.
--	03016909	C-3	108.
--	03016910	C-2	105.
--	03016911	C-8	132.
--	03016912	C-7	116.

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

Project Number: 9-0504
Chevron SS #9-0137
15900 Hesperian Blvd
San Lorenzo, CA
Work Order Number: W6-03-0169
Date Reported: 03-19-96

METHOD BLANK REPORT

Volatile Organics in Water
EPA Method 8020

Date of Analysis:03-18-96 QC Batch No: 031896GC17-1

Analyte	Concentration, ug/L
MTBE	<5.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylene (total)	<0.5
TPH as Gasoline	<50.0

GTEL Client ID: GTR01CHV08
Login Number: W6030169
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020	Units:ug/L	QC Batch:031896GC17-3			
Benzene		20.0	18.8	94.0	77-123%
Toluene		20.0	18.3	91.5	77.5-122.5%
Ethylbenzene		20.0	17.5	87.5	63-137%
Xylenes (Total)		60.0	53.6	89.3	85-115%
TPH as Gasoline		500.	519.	104.	80-120%

Notes:
QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030169 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020 Units: ug/L	QC Batch: 031896GC17-6	GTEL Sample ID: W6030169-10		Client ID: C-2
MTBE	1260	1280	1.57	20
Benzene	19.5	18.6	4.72	23.9
Toluene	< 10.0	< 10.0	NA	27.2
Ethylbenzene	62.8	61.0	2.91	21.6
Xylenes (Total)	289.	281.	2.81	22.0
TPH as Gasoline	2220	2440	9.44	20

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030169 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID.W6030169-03			MS ID:MS03016903		
Analysis Date: 19-MAR-96			19-MAR-96		
Units: ug/L	Sample	Spike	MS	MS	Acceptability Limits
Analyte	Conc.	Added	Conc.	% Rec.	%Rec.
Benzene	< 0.5 (0.200)	20.0	19.6	97.0	67-110
Toluene	< 0.5 (0.250)	20.0	21.2	105.	68-115
Ethylbenzene	< 0.5 (0.120)	20.0	21.0	104.	65-120
Xylenes (Total)	0.5 (0.520)	60.0	64.1	106.	62-119

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