



GETTLER-RYAN INC.

January 3, 1996

Job #5110.85

Mr. Mark Miller
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Chevron Service Station #9-0260
21995 Foothill Boulevard
Hayward, California

Dear Mr. Miller:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On November 28, 1995, field personnel were on-site to monitor fourteen wells (MW-4 through MW-17) and sample nine wells (MW-4, MW-5, MW-8, MW-10, MW-12, and MW-14 through MW-17) at Chevron Service Station #9-0260 located at 21995 Foothill Boulevard in Hayward, California.

Static groundwater levels were measured on November 28, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one of the site wells, MW-7. Static water level data and groundwater elevations are presented in Table 1. Separate-phase removal information is presented in Table 2. A potentiometric map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - 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.

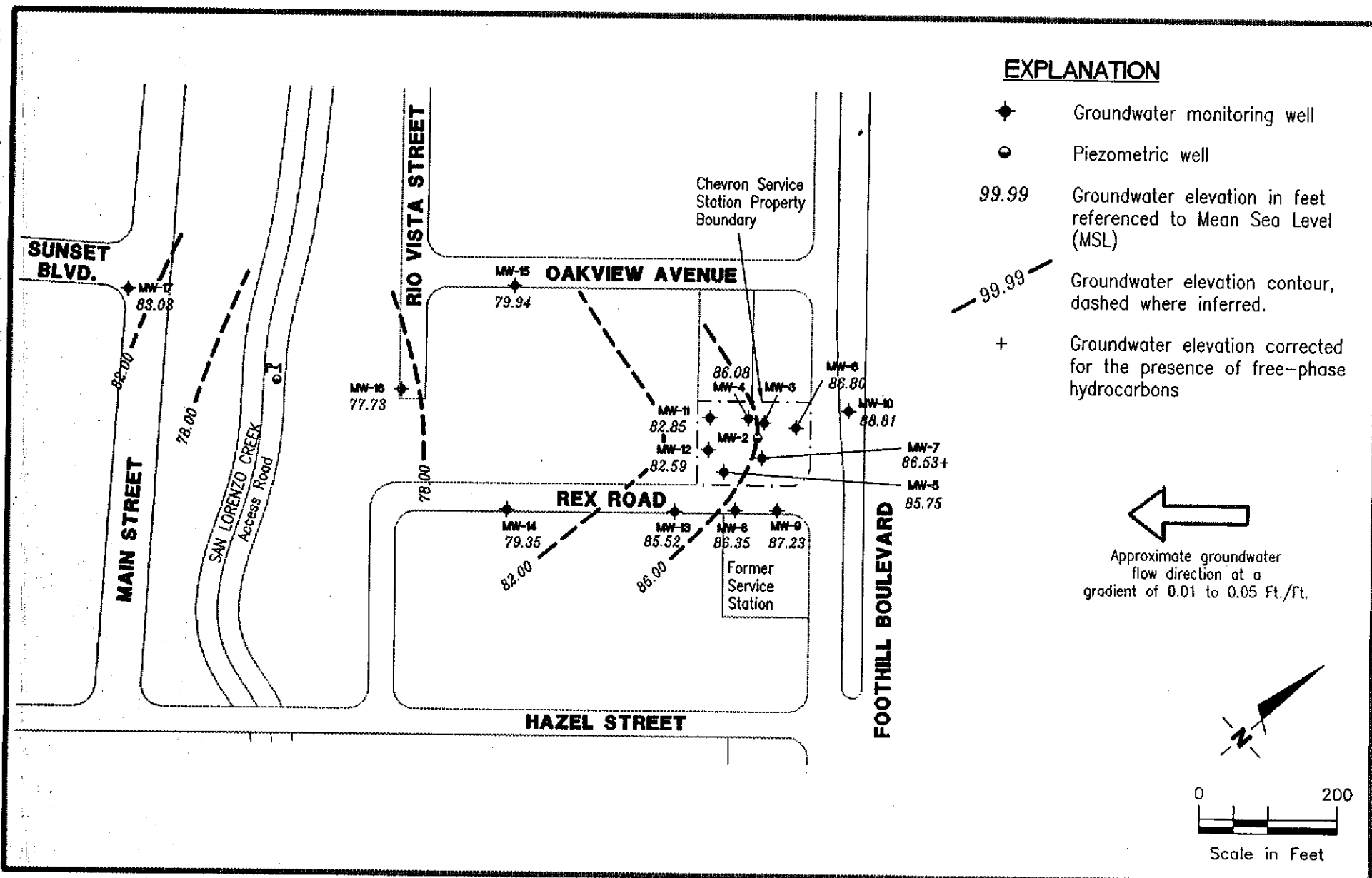
Sincerely,

Deanna L. Harding for
Greg A. Gurs
Project Manager
Penny L. Silzer
Penny L. Silzer
Senior Geologist, R.G. No. 5523



GAG/PLS/dlh
5110.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytical Results
Table 2: Separate-phase Removal Data
Attachments: Standard Operating Procedure - Quarterly Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP

Chevron Service Station No. 9-1260
21995 Foothill Boulevard
Hayward, California

FIGURE

1

JOB NUMBER
5110

REVIEWED BY

DATE
November 28, 1995

REVISED DATE



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product	TPPH(G)	B	T	E	X	MTBE
				Thickness* (ft)						



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (mal)	Product	TPPH(G)	B	T	E	X	MTBE
				Thickness* (ft)						
</										



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product	TPPH(G)	B	T	E	X	MTBE
				Thickness* (ft)						
<-----ppb----->										
MW-6 (cont)	12/2/93	14.87	86.56	0	—	—	—	—	—	—
	3/8/94	12.04	89.39	0	61,000	7,000	1,500	1,500	7,400	—
	6/13/94	13.37	88.06	0	—	—	—	—	—	—
	10/4/94	15.56	85.87	0	78,000	13,000	940	1,900	10,000	—
	11/14/94	13.53	87.90	0	—	—	—	—	—	—
	5/15/95	10.53	90.90	0	—	—	—	—	—	—
	8/4/95	12.38	89.05	0	51,000	8,600	1,400	1,900	7,800	—
	11/28/95 ¹¹	14.63	86.80	0	—	—	—	—	—	—
MW-7	2/5/88	—	—	—	81,000	34,000	36,000	2,400	16,000	—
100.91	6/15/88	12.57	88.34	—	77,000	40,000	41,000	1,400	24,000	—
	9/27/88 ^{1,7}	13.60	87.31	—	30,000	9,700	8,900	400	4,100	—
	1/5/89	12.98	87.93	—	96,000	36,000	38,000	2,800	16,000	—
	4/6/89	12.34	88.57	—	—	—	—	—	—	—
	6/28/89	14.08	86.83	—	110,000	31,000	30,000	2,600	16,000	—
	10/3/89	14.53	86.38	—	230,000	34,000	34,000	2,400	15,000	—
	1/4/90	14.49	86.42	—	150,000	41,000	40,000	2,400	15,000	—
	4/3/90	13.66	87.25	—	100,000	31,000	28,000	2,100	16,000	—
	7/3/90	13.86	87.05	—	190,000	30,000	27,000	1,800	13,000	—
	11/6/90	15.58	85.33	—	160,000	27,000	25,000	1,900	15,000	—
	1/4/91	15.25	85.66	—	—	—	—	—	—	—
	4/3/91	11.41	89.50	—	240,000	40,000	36,000	2,400	18,000	—
	7/2/91	14.18	86.73	—	—	—	—	—	—	—
	10/2/91	15.78	85.13	—	220,000	26,000	27,000	2,500	18,000	—
	1/2/92	15.45	85.46	—	—	—	—	—	—	—
	4/7/92	13.48	87.43	—	260,000	27,000	26,000	2,400	15,000	—
	8/13/92	15.89	85.02	—	—	—	—	—	—	—
	12/3/92	16.43	84.48	—	330,000	29,000	31,000	3,300	18,000	—
	3/25/93	11.10	89.81	—	—	—	—	—	—	—
	6/23/93	13.63	88.13	1.06	—	—	—	—	—	—
	9/21/93	14.88	86.57	0.67	—	—	—	—	—	—
	12/2/93	14.74	86.32	0.19	—	—	—	—	—	—
	3/8/94	12.37	88.54	0	—	—	—	—	—	—
	6/13/94	13.12	88.03	0.30	—	—	—	—	—	—
	10/4/94 ¹⁰	—	—	—	—	—	—	—	—	—
	11/14/94	13.83	87.22 ¹²	0.18	—	—	—	—	—	—
	5/15/95	11.07	89.85	0.01	<50	<0.5	<0.5	<0.5	<0.5	—
	8/4/95	12.53	88.38	0	—	—	—	—	—	—
	11/28/95	14.62	86.53 ¹²	0.30	—	—	—	—	—	—



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPPH(G)	B T E X					MTBE
						←————— ppb —————→					
MW-8	10/27/88	—	—	—	190,000	27,000	43,000	2,200	15,000	—	
	1/5/89	12.02	87.65	—	87,000	24,000	39,000	3,000	15,000	—	
99.67	4/6/89	11.78	87.89	—	—	—	—	—	—	—	
	6/28/89	13.40	86.27	—	120,000	22,000	35,000	2,900	16,000	—	
	10/3/89	13.84	85.92	0.11	—	—	—	—	—	—	
	1/4/90	13.99	85.76	0.10	—	—	—	—	—	—	
	4/3/90	13.07	86.84	0.30	—	—	—	—	—	—	
	7/3/90	13.11	86.59	0.04	—	—	—	—	—	—	
	11/6/90	14.77	85.02	0.15	—	—	—	—	—	—	
	1/4/91	14.59	85.22	0.18	—	—	—	—	—	—	
	4/3/91	11.53	88.18	0.05	—	—	—	—	—	—	
	7/2/91	13.71	86.34	0.48	—	—	—	—	—	—	
	10/2/91	14.84	85.05	0.27	—	—	—	—	—	—	
	1/2/92	15.05	84.86	0.30	—	—	—	—	—	—	
	4/7/92	12.17	87.73	0.29	—	—	—	—	—	—	
	8/13/92	14.96	84.96	0.31	—	—	—	—	—	—	
	12/3/92	15.85	84.44	0.78	—	—	—	—	—	—	
	3/25/93	10.78	88.89	—	—	—	—	—	—	—	
	6/23/93	12.27	87.60	0.25	—	—	—	—	—	—	
	9/21/93	13.68	86.25	0.32	—	—	—	—	—	—	
	12/2/93	14.00	85.86	0.24	—	—	—	—	—	—	
	3/8/94	11.84	87.83	0	—	—	—	—	—	—	
	6/13/94	12.11	87.58	0.03	—	—	—	—	—	—	
	10/4/94	14.20	85.47	0	—	—	—	—	—	—	
	11/14/94	14.06	85.61	0	140,000	12,000	36,000	2,400	17,000	—	
	5/15/95	9.95	89.72	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	8/4/95	11.14	88.53	0	—	—	—	—	—	—	
	11/28/95	13.32	86.35	0	100,000	6,900	34,000	2,700	16,000	650	
MW-9	10/27/88	—	—	—	50,000	2,000	9,900	2,000	14,000	—	
	1/5/89	12.63	88.52	0	55,000	670	8,900	3,400	16,000	—	
101.15	4/6/89	12.46	88.69	0	—	—	—	—	—	—	
	6/28/89	14.04	87.11	0	100,000	510	4,500	2,600	13,000	—	
	10/3/89	14.61	86.54	0	130,000	540	8,000	3,200	17,000	—	
	1/4/90	14.59	86.56	0	83,000	600	4,600	2,600	14,000	—	
	4/3/90	13.75	87.40	0	52,000	1,600	5,400	3,100	16,000	—	
	7/3/90	13.84	87.31	0	100,000	520	5,400	3,200	16,000	—	
	11/6/90	15.42	85.73	0	—	—	—	—	—	—	
	1/4/91	15.37	85.78	0	59,000	1,100	5,600	2,500	13,000	—	
	4/3/91	12.27	88.88	0	—	—	—	—	—	—	



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPPH(G)	B	T	E	X	MTBE
						<-----ppb----->				
MW-9	7/2/91	14.17	86.98	0	130,000	1,900	7,600	3,600	20,000	---
(cont)	10/2/91	15.68	85.47	0	---	---	---	---	---	---
	1/2/92	15.65	85.50	0	100,000	3,300	8,200	2,800	14,000	---
	4/7/92	13.84	87.31	0	---	---	---	---	---	---
	8/13/92	15.50	85.65	0	45,000	1,300	3,000	1,500	7,100	---
	12/3/92	16.66	84.49	0	---	---	---	---	---	---
	3/25/93	11.48	89.67	0	220,000	540	3,200	2,100	18,000	---
	6/23/93	12.83	88.32	0	---	---	---	---	---	---
	9/21/93	14.31	86.84	0	54,000	1,900	3,400	1,700	9,100	---
	12/2/93	14.70	86.46	0.01	---	---	---	---	---	---
	3/8/94	12.63	88.52	0	49,000	800	780	390	3,600	---
	6/13/94	13.65	87.50	0	---	---	---	---	---	---
	10/4/94	15.20	85.95	0	180,000	2,600	5,400	1,700	11,000	---
	11/14/94	14.25	86.90	0	---	---	---	---	---	---
	5/15/95	10.64	90.51	0	---	---	---	---	---	---
	8/4/95	11.89	89.26	0	42,000	1,400	2,700	1,700	9,000	---
	11/28/95 ¹¹	13.92	87.23	0	---	---	---	---	---	---
MW-10	10/27/88 ¹	---	---	---	<500	26	13	<5	<5	---
	1/5/89	12.64	89.72	0	<1,000	<0.3	<0.3	<0.3	<0.3	---
102.36	4/6/89	11.38	90.98	---	---	---	---	---	---	---
	6/28/89	13.64	88.72	0	<500	<0.5	<0.5	<0.5	<0.5	---
	10/3/89	13.85	88.51	0	<500	<0.5	<0.5	<0.5	<0.5	---
	1/4/90	13.75	88.61	0	<50	0.5	1.1	<0.5	1.7	---
	4/3/90	12.86	89.50	0	<50	<0.5	<0.5	<0.5	<0.5	---
	7/3/90	13.43	88.93	---	---	---	---	---	---	---
	11/6/90	14.82	87.54	---	---	---	---	---	---	---
	1/4/91	13.98	88.38	0	<50	<0.5	<0.5	<0.5	<0.5	---
	4/3/91	9.79	92.57	---	---	---	---	---	---	---
	7/2/91	12.28	90.08	---	---	---	---	---	---	---
	10/2/91	14.53	87.83	---	---	---	---	---	---	---
	1/2/92	13.60	88.76	0	<50	<0.5	<0.5	<0.5	<0.5	---
	4/7/92	11.83	90.53	---	---	---	---	---	---	---
	8/13/92	13.95	88.41	---	---	---	---	---	---	---
	12/3/92	13.96	88.40	---	---	---	---	---	---	---
	3/25/93	8.45	93.91	0	<50	<0.5	<0.5	<0.5	<1.5	---
	6/23/93	11.60	91.03	0	---	---	---	---	---	---
	9/21/93	13.32	89.31	0	---	---	---	---	---	---
	12/2/93	13.27	89.36	0	---	---	---	---	---	---
	3/8/94	10.85	91.51	0	<50	<0.5	<0.5	<0.5	<0.5	---



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPPH(G)	B T E X					MTBE	
						←-----ppb----->						
MW-10 (cont)	6/13/94	—	—	—	—	—	—	—	—	—	—	
	10/4/94	13.90	88.46	0	—	—	—	—	—	—	—	
	11/14/94	11.80	90.56	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	
	5/15/95	8.98	93.38	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	
	8/4/95	10.44	91.92	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	
	11/28/95	13.55	88.81	0	<50	1.6	0.81	<0.50	<0.50	<0.60	—	
MW-11	6/28/89	14.33	85.64	0	60,000	36,000	13,000	2,500	12,000	—	—	
	10/3/89	14.61	85.36	0	14,000	4,200	1,400	240	1,300	—	—	
99.97	1/4/90	14.55	85.42	0	82,000	33,000	11,000	2,000	10,000	—	—	
	4/3/90	13.82	86.15	0	78,000	35,000	12,000	2,300	12,000	—	—	
	7/3/90	14.00	85.97	0	140,000	32,000	12,000	2,100	10,000	—	—	
	11/6/90	15.56	84.41	0	—	—	—	—	—	—	—	
	1/4/91	14.88	—	0.30	—	—	—	—	—	—	—	
	4/3/91	10.75	—	0.21	340,000	29,000	14,000	3,700	24,000	—	—	
	7/2/91	13.97	—	0.02	130,000	27,000	14,000	2,200	12,000	—	—	
	10/2/91	15.60	—	—	—	—	—	—	—	—	—	
	1/2/92	14.51	85.46	0	77,000	18,000	14,000	1,900	10,000	—	—	
	4/7/92	13.13	86.84	0	—	—	—	—	—	—	—	
	8/13/92	17.04	82.53	—	—	—	—	—	—	—	—	
99.57	12/3/92	15.59	83.98	—	—	—	—	—	—	—	—	
	3/25/93	10.06	89.51	—	110,000	13,000	2,100	5,900	9,800	—	—	
	3/8/94	11.70	87.87	0	—	—	—	—	—	—	—	
	6/13/94	12.16	87.41	0	—	—	—	—	—	—	—	
	10/4/94 ¹⁰	—	—	—	—	—	—	—	—	—	—	
	11/14/94 ¹⁰	—	—	—	—	—	—	—	—	—	—	
	5/15/95	10.02	89.55	—	—	—	—	—	—	—	—	
	8/4/95	11.82	87.75	0	33,000	9,400	3,000	1,800	6,100	—	—	
	11/28/95 ¹¹	16.72	82.85	0	—	—	—	—	—	—	—	
	MW-12	6/28/89	14.10	85.54	0	55,000	30,000	21,000	2,900	19,000	—	—
		10/3/89	14.30	85.34	0	170,000	30,000	23,000	2,700	15,000	—	—
99.64	1/4/90	14.35	85.29	0	110,000	24,000	19,000	2,300	12,000	—	—	
	4/3/90	13.59	86.05	0	89,000	41,000	28,000	3,300	17,000	—	—	
	7/3/90	13.77	85.87	0	170,000	27,000	20,000	2,200	12,000	—	—	
	11/6/90	15.19	84.45	0.06	110,000	28,000	21,000	2,400	14,000	—	—	
	1/4/91	14.52	—	—	—	—	—	—	—	—	—	
	4/3/91	10.91	—	—	—	—	—	—	—	—	—	
	4/9/91	—	—	0	170,000	39,000	17,000	2,400	14,000	—	—	
	7/2/91	13.51	—	0	—	—	—	—	—	—	—	



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (mal)	Product	TPPH(G)	B	T	E	X	MTBE
				Thickness* (ft)						
←-----ppb-----→										
MW-12	10/2/91	14.93	—	—	170,000	27,000	15,000	2,600	17,000	—
(cont)	1/2/92	14.45	85.19	0	—	—	—	—	—	—
	4/7/92	13.05	86.59	0	—	—	—	—	—	—
99.22	8/13/92	17.39	81.83	0	—	—	—	—	—	—
	12/3/92	15.34	83.88	0	2,400,000	19,000	21,000	14,000	110,000	—
	3/25/93	10.37	88.85	0	—	—	—	—	—	—
	6/23/93	12.21	87.01	0	110,000	30,000	19,000	2,000	12,000	—
	3/8/94	11.95	87.27	0	—	—	—	—	—	—
	6/13/94	12.35	86.87	0	62,000	6,600	6,900	2,400	9,900	—
	10/4/94 ¹⁰	—	—	—	—	—	—	—	—	—
	11/14/94 ¹⁰	—	—	—	—	—	—	—	—	—
	5/15/95	10.06	89.16	0	<50	<0.5	<0.5	<0.5	<0.5	—
	8/4/95	11.60	87.62	0	—	—	—	—	—	—
	11/28/95	16.63	82.59	0	110,000	26,000	22,000	2,300	12,000	1,100
MW-13	6/28/89	13.22	85.25	0	54,000	12,000	10,000	1,900	15,000	—
	10/3/89	13.54	84.93	0	120,000	10,000	10,000	2,300	15,000	—
98.47	1/4/90	13.64	84.83	0	87,000	6,800	10,000	2,000	12,000	—
	4/3/90	12.95	85.52	0	53,000	12,000	14,000	2,900	17,000	—
	7/3/90	13.05	85.42	0	90,000	8,400	11,000	2,000	11,000	—
	11/6/90	14.12	84.35	—	—	—	—	—	—	—
	1/4/91	14.05	84.42	0	72,000	5,500	12,000	2,300	12,000	—
	4/3/91	11.41	87.06	—	—	—	—	—	—	—
	7/2/91	13.17	85.30	0	120,000	12,000	13,000	2,500	14,000	—
	10/2/91	14.24	84.23	—	—	—	—	—	—	—
	1/2/92	14.13	84.34	0.03	—	—	—	—	—	—
	4/7/92	13.06	85.41	—	—	—	—	—	—	—
	8/13/92	14.26	84.21	0	84,000	7,400	11,000	2,600	13,000	—
	12/3/92	14.82	83.65	—	—	—	—	—	—	—
	3/25/93	10.73	87.74	0	97,000	5,200	2,500	7,200	12,000	—
	6/23/93	11.97	86.50	0	—	—	—	—	—	—
	9/21/93	13.08	85.39	0	80,000	7,600	9,000	2,900	14,000	—
	12/2/93	13.45	85.02	0	—	—	—	—	—	—
	3/8/94	11.75	86.72	0	78,000	5,300	7,600	2,600	10,000	—
	6/13/94	12.30	86.17	0	—	—	—	—	—	—
	10/4/94	14.18	84.29	0	39,000	2,300	2,700	850	4,600	—
	11/14/94	12.62	85.85	0	—	—	—	—	—	—
	5/15/95	9.93	88.54	—	—	—	—	—	—	—
	8/4/95	11.08	87.39	0	47,000	7,700	10,000	2,900	10,000	—
	11/28/95 ¹¹	12.95	85.52	0	—	—	—	—	—	—



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPPH(G)	B	T	E	X	MTBE
					< ppb >					
MW-14 99.68	8/29/90*	21.39	78.29	0	970	4	2	0.7	2	—
	11/6/90	21.62	78.06	0	920	10	10	4	9	—
	1/4/91	21.69	77.99	0	1,000	<0.5	4.0	2.6	4.2	—
	4/3/91	19.53	80.15	0	1,200	380	6	7	18	—
	7/2/91	20.93	78.75	0	460	27	1.0	1.2	1.0	—
	10/2/91	21.52	78.16	0	480	6.7	0.8	1.4	1.8	—
	1/2/92	21.43	78.25	0	1,100	2.4	1.5	6.2	18	—
	4/7/92	21.36	78.32	0	290	<0.5	1.4	<0.5	1.2	—
	8/13/92	21.07	78.61	0	370	10	1.2	<0.5	0.9	—
	12/3/92	21.67	78.01	0	230	1.3	<0.5	<0.5	<0.5	—
	3/25/93	19.03	80.65	0	390	57	2.1	1.3	1.7	—
	6/23/93	19.94	79.74	0	4,400	460	220	16	62	—
	9/21/93	20.65	79.03	0	680	8.7	1.7	3.2	12	—
	12/2/93	21.05	78.63	0	900	0.8	7	3	7	—
	3/8/94	20.05	79.63	0	1,700	2.4	7.7	5.6	14	—
	6/13/94	20.21	79.47	0	750	0.8	8.0	3.2	5.7	—
	10/4/94	20.70	78.98	0	130	3.4	5.4	<0.5	2.0	—
	11/14/94	20.00	79.68	0	9,900	620	1,600	120	920	—
	5/15/95	18.49	81.19	0	<50	<0.5	<0.5	<0.5	<0.5	—
	8/4/95	19.38	80.30	0	1,000	170	58	6.6	20	—
	11/28/95	20.33	79.35	0	1,500	300	72	65	190	<6.0
MW-15 96.06	8/29/90*	16.58	79.48	0	2,000	26	2	72	110	—
	11/6/90	17.43	78.63	0	1,300	40	5	45	63	—
	1/4/91	16.37	79.69	0	1,700	46	2.8	58	86	—
	4/3/91	12.46	83.60	0	2,100	74	0.8	44	85	—
	7/2/91	16.53	79.53	0	1,700	39	<0.5	35	46	—
	10/2/91	17.33	78.73	0	1,100	50	<0.5	40	33	—
	1/2/92	16.46	79.60	0	1,300	51	<0.5	30	30	—
	4/7/92	14.70	81.36	0	2,600	98	<5	64	36	—
	8/13/92	16.72	79.34	0	510	55	<0.5	35	2.8	—
	12/3/92	17.43	78.63	0	1,000	64	0.9	22	4.4	—
	3/25/93	13.33	82.73	0	1,300	86	52	0.7	7.7	—
	6/23/93	15.23	80.83	0	7,300	34	<0.5	85	160	—
	9/21/93	16.32	79.74	0	1,500	39	<0.5	32	33	—
	12/2/93	16.57	79.49	0	990	28	4	8	10	—
	3/8/94	14.61	81.45	0	3,400	44	4.0	28	53	—
	10/4/94	16.48	79.58	0	310	11	10	2.2	12	—
	11/14/94	14.20	81.86	0	450	27	2.4	2.2	4.2	—
	5/15/95	13.38	82.68	0	<50	<0.5	<0.5	<0.5	<0.5	—



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPPH(G)	B	T	E	X	MTBE
						<i>ppb</i>				
MW-15 (cont)	8/4/95	14.91	81.15	0	<50	0.6	<0.5	<0.5	0.8	—
	11/28/95	16.12	79.94	0	<50	<0.50`	<0.50	<0.50	<0.50	<0.60
MW-16	8/29/90	20.89	77.26	0	11,000	6,000	51	1,100	20	—
	11/6/90	21.27	76.88	0	15,000	6,300	340	1,300	540	—
98.15	1/4/91	21.63	76.52	0	16,000	6,800	820	1,300	1,500	—
	4/3/91	19.32	78.83	0	45,000	7,300	2,200	1,800	4,900	—
	7/2/91	20.68	77.47	0	30,000	6,400	530	1,500	1,800	—
	10/2/91	21.18	76.97	0	24,000	4,600	450	1,400	1,600	—
	1/2/92	21.30	76.85	0	20,000	4,700	240	1,200	1,100	—
	4/7/92	20.19	77.96	0	40,000	5,000	980	1,100	2,100	—
	8/13/92	20.77	77.38	0	17,000	4,500	240	860	530	—
	12/3/92	21.44	76.71	0	39,000	4,600	410	1,100	2,200	—
	3/25/93	18.83	79.32	0	39,000	5,500	1,400	690	2,000	—
	6/23/93	19.72	78.43	0	29,000	6,600	1,200	1,400	3,700	—
	9/21/93	20.38	77.77	0	36,000	6,300	340	1,200	1,800	—
	12/2/93	20.84	77.31	0	28,000	5,600	230	900	820	—
	3/8/94	20.27	77.88	0	35,000	6,500	760	1,000	1,300	—
	10/4/94	20.58	77.57	0	39,000	9,700	680	1,300	3,300	—
	11/14/94	20.12	78.03	0	26,000	5,500	640	690	1,800	—
	5/15/95	18.16	79.99	0	<50	<0.5	<0.5	<0.5	<0.5	—
	8/4/95	19.30	78.85	0	23,000	6,200	1,900	1,500	4,500	—
	11/28/95	20.42	77.73	0	38,000	6,200	1,700	1,800	5,700	<120
MW-17	8/13/92	23.30	82.70	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/3/92	24.74	81.26	0	<50	<0.5	<0.5	<0.5	<0.5	—
106.00	3/25/93	22.14	83.86	0	<50	<0.5	<0.5	<0.5	<1.5	—
	6/23/93	23.02	82.98	0	<50	<0.5	<0.5	<0.5	1	—
	9/21/93	23.09	82.91	0	<50	<0.5	<0.5	<0.5	<0.8	—
	12/2/93	23.37	82.63	0	—	—	—	—	—	—
	3/8/94	22.83	83.17	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/13/94	22.62	83.38	0	<50	1.2	1.1	<0.5	0.9	—
	10/4/94	23.00	83.00	0	62	8.0	2.9	0.7	3.1	—
	11/14/94	23.03	82.97	0	550	22	120	8.9	84	—
	5/15/95	21.72	84.28	0	<50	<0.5	<0.5	<0.5	<0.5	—
	8/4/95	22.37	83.63	0	<50	<0.5	<0.5	<0.5	<0.5	—
	11/28/95	22.97	83.03	0	<50	<0.50	<0.50	<0.50	<0.50	<0.60



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPPH(G)	B	T	E	X	MTBE
					←—————ppb————→					
P-1	8/13/92	10.02	76.41	0	—	—	—	—	—	—
	12/3/92	10.80	75.63	0	—	—	—	—	—	—
	86.43 3/25/93	8.95	77.48	0	—	—	—	—	—	—
Rinseate	1/5/89	—	—	—	<1,000	<0.3	<0.3	<0.3	<0.3	—
	3/8/94	—	—	—	<50	1	1.4	<0.5	1.5	—
TBLB	1/5/89	—	—	—	<1,000	<0.3	<0.3	<0.3	<0.3	—
	10/3/89	—	—	—	<500	<0.5	<0.5	<0.5	<0.5	—
	1/4/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	4/3/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	7/3/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	11/6/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	1/4/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	4/3/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	7/2/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	10/2/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	1/2/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	4/7/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	8/13/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	12/3/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	3/25/93	—	—	—	<50	<0.5	<0.5	<0.5	<1.5	—
	6/23/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	9/21/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.8	—
	12/2/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	3/8/94	—	—	—	<50	0.6	0.8	<0.5	0.6	—
	6/13/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	10/4/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	11/14/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	5/15/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	8/4/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	11/28/95	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<0.60



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California (continued)

EXPLANATION:

TOC =
DTW = Depth to water
GWE = Groundwater elevation in feet above mean sea level
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-tertiary-butyl-ether
DCE = 1,2 - Dichloroethane
EDB = Ethylene dibromide
VOCs = Volatile organic compounds
ppb = Parts per billion
-- = Not analyzed/Not applicable

ANALYTICAL METHODS:

Total fuel & aromatic volatile hydrocarbons =
EPA Method 524.2/8240
TPH(G) = EPA Method 8015/5030
BTEX = EPA Method 8020
MTBE = EPA Method 8020

NOTES:

Water level elevation data and laboratory analytic results prior to May 15, 1995 were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

- * Product thickness measured with an MMC flexi-dip interface probe.
- ¹ Samples analyzed by Fuel Fingerprint Analysis.
- ² EDB not detected at detection limits of 5,000 ppb.
- ³ Sample was analyzed a second time after the holding time expired to confirm the high TPH-G concentration reported in the original analysis.
- ⁴ DCE and EDB detected at 270 and 230 ppb, respectively.
- ⁵ DCE and EDB detected at 410 and 420 ppb, respectively.
- ⁶ Estimated thickness.
- ⁷ DCE detected at 2,600 ppb. EDB not detected at detection limits of 10 ppb.
- ⁸ DCE was detected at 1 ppb. Other VOCs not detected at detection limits of 0.5 to 4.0 pb.
- ⁹ Chloroform detected, concentration not stated. Other VOCs not detected at detection limits of 25 to 500 ppb.
- ¹⁰ Well not accessible due to down hole equipment.
- ¹¹ Well sampled semi-annually.
- ¹² GWE corrected for the presence of free-phase hydrocarbons using the formula $GWE = [(TOC - DTW) + (0.8)(Product\ Thickness)]$. 0.8 is the assumed specific gravity of free-phase hydrocarbons.



Table 2. Product Thickness and Product Bailed - Chevron Service Station #9-0260, 21995 Foothill Boulevard, Hayward, California

Well ID	Date	Initial	Gallons Bailed (product + water)
		Product Thickness (ft)	
MW-7	11/14/94	0.18	0.5
	11/28/95	0.30	2.0

5110pt.lqm



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 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 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	Frank Cline/Lupe Sanchez	DATE	11-28-95
ADDRESS	21995 Foothill Blvd	JOB #	5110.85
CITY	Hayward CA	SS#	9-0260
Well ID	NW-4	Well Condition	OK
Well Location Description			
Well Diameter	2"-4" in	Hydrocarbon Thickness	0
Total Depth	21.30 ft	Volume	2" = 0.17 6" = 1.50 12" = 5.80
Depth to Liquid	14.65 ft	Factor	3" = 0.38
# of casing	3X	(VF)	4" = 0.66
Volume	x 0.17-0.66	x(VF)	#Estimated
Purge Equipment	Dedaud	Sampling Equipment	Disposable Bailer
Did well dewater		If yes, Time	Volume
Starting Time		Purging Flow Rate	gpm.
Sampling Time	1205		
Time	1205	pH	6.85
		Conductivity	506
		Temperature	21.4
		Volume	N/A
Weather Conditions	Sunny warm clear		
Water Color	Clear	Odor	Mild
Sediment Description	None		

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
NW-4	3x40m LDCA	Y	HCL	GTBL	Gas BIXE MTBE

Comments

Pump Running Sampled via Bailer



WELL SAMPLING FIELD DATA SHEET

SAMPLER

Frank Cline/Lupe Sanchez

DATE

11-28-95

ADDRESS

21995 Foothill Blvd

JOB #

5110.85

CITY

Hayward CA

SS#

9-060

Well ID

NW-5

Well Condition

~ 10' from Air/Water unit ^{OK}

Well Location Description

Well Diameter

2" - 4" in

Hydrocarbon Thickness

Total Depth

1850 ft

Depth to Liquid

14.22 ft

of casing ^{3X}
Volume

4.28

x 0.11-0.66 x (VF) 3.8 #Estimated 8.5 gal.

Purge Equipment

Bailer

Sampling Equipment

Disposable Bailer ^{purge Volume}

Did well dewater

NO

If yes, Time

Volume

Starting Time

1145

Purging Flow Rate

gpm.

Sampling Time

1205

Time

1150

pH

6.7

Conductivity

860

Temperature

70.2

Volume

3 gal

1159

6.6

770

69.9

6 gal

1205

6.5

720

69.2

9 gal

Weather Conditions

Sunny

Water Color:

Grey

Odor:

strong

Sediment Description

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
NW-5	3x40m LCA	Y	HCL	GTBL	Gas BUXE MTBE

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER

Frank Cline/Lupe Sanchez

DATE

11-28-95

ADDRESS

21995 Foothill Blvd

JOB #

5110.85

CITY

Hayward CA

SS#

9-0260

Well ID

NW-6

Well Condition

Well Location Description

Well Diameter

2" - 4"

in

Hydrocarbon Thickness

Total Depth

16.75

ft

Depth to Liquid

14.63

ft

Volume

2" = 0.17

6" = 1.50

12" = 5.80

Factor

3" = 0.38

(VF)

4" = 0.66

of casing 3X
Volume

x 0.17-0.66

x(VF)

#Estimated

purge

gal.

Purge Equipment

Sampling Equipment

Disposable Bailer

Did well dewater

If yes, Time

Volume

Starting Time

Sampling Time

Purging Flow Rate

gpm.

Time

pH

Conductivity

Temperature

Volume

Weather Conditions

Water Color:

Sediment Description

Odor:

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
NW-6	3x40m LUGA	Y	HCL	GTREL	Gas/Bulk MTBE

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER Frank Cline/Lupe Sanchez DATE 11-28-95

ADDRESS 21995 Foothill Blvd JOB # 5110.85

CITY Hayward CA SS# 9-0260

Well ID MW-7 Well Condition clay

Well Location Description _____

Well Diameter 2"-4" in Hydrocarbon Thickness 0.30'

Total Depth 18.01 ft

Depth to Liquid 14.62 ft

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

of casing 3 x ATT-0.66 x (VF) 0.66 #Estimated 0.66 gal.

Purge Equipment _____ Sampling Equipment Disposable Bailer

Did well dewater _____ If yes, Time _____ Volume _____

Starting Time _____ Purging Flow Rate _____ gpm.

Sampling Time _____

Time	pH	Conductivity	Temperature	Volume

Weather Conditions _____

Water Color: _____ Odor: _____

Sediment Description _____

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-7	3x40m DCA	Y	HCL	GTBL	GasBUXE MTRB

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER

Frank Cline/Lupe Sanchez

DATE

11-28-95

ADDRESS

21995 Foothill Blvd

JOB #

5110.85

CITY

Hayward CA

SS#

9-066

Well ID

NW-8

Well Condition

OK

Well Location Description

~ 8' from the sidewalk on Rex Rd.

Well Diameter

2" - 4" in

Hydrocarbon Thickness

0

Total Depth

18.45 ft

Depth to Liquid

13.32 ft

Volume

2" = 0.17

6" = 1.50

12" = 5.80

Factor

3" = 0.38

(VF)

4" = 0.66

of casing
Volume

3X

5.13

x 0.11-0.66

x(VF)

3.4

#Estimated

10.2

gal.

Purge Equipment

Stack Pump

Sampling Equipment

Disposable Bailer

Did well dewater

Yes

If yes, Time

1128

Volume

8 gal

Starting Time

1124

Purging Flow Rate

2

gpm.

Sampling Time

1228

Time

1126

pH

6.9

Conductivity

790

Temperature

70.7

Volume

4 gal

1128

6.7

740

70.0

8 gal

1228

6.7

660

70.3

9 gal

Weather Conditions

Sunny

Water Color:

clear

Odor:

strong

Sediment Description

none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
NW-8	3x40m LUGA	Y	HCL	GTBL	Gas Bix Nitrate

Comments

Well recovered @ 15.02



WELL SAMPLING FIELD DATA SHEET

SAMPLER

Frank Cline / Lupe Sanchez

DATE

11-28-95

ADDRESS

21995 Foothill Blvd

JOB #

5110.85

CITY

Hayward CA

SS#

9-060

Well ID

NW-9

Well Condition

Well Location Description

Well Diameter

2" - 4" in

Hydrocarbon Thickness

Heavy Shale

Total Depth

1900 ft

Depth to Liquid

1392 ft

of casing
Volume

3X

x 0.01-0.66

x(VF)

Estimated

gal.

purge

Volume

Purge Equipment

Sampling Equipment

Disposable Bailer

Did well dewater

If yes, Time

Volume

Starting Time

Purging Flow Rate

Sampling Time

gpm.

Time

pH

Conductivity

Temperature

Volume

Weather Conditions

Water Color:

Sediment Description

Odor:

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
NW-9	3x40m LDCA	Y	HCL	GTIEL	Gas BULK MTBE

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER Frank Cline/Lupe Sanchez DATE 11-28-95
ADDRESS 21995 Foothill Blvd JOB # 5110.85
CITY Hayward CA SS# 9-060

Well ID MW-10 Well Condition clay

Well Location Description

Well Diameter 2"-4" inTotal Depth 2765 ftDepth to Liquid 13.55 ftHydrocarbon Thickness 0# of casing 3X
Volume14.10x 0.01-0.66 x(VF) 9.3 #Estimated 27.28 gal.

Purge Equipment

Stack

Sampling Equipment

Disposable Bailer

Did well dewater

If yes, Time

Volume

Starting Time 9:58

Purging Flow Rate

2

gpm.

Sampling Time 10:17

Time	pH	Conductivity	Temperature	Volume
<u>10:03</u>	<u>7.36</u>	<u>597</u>	<u>21.7</u>	<u>10</u>
<u>10:08</u>	<u>7.25</u>	<u>657</u>	<u>22.0</u>	<u>20</u>
<u>10:13</u>	<u>7.22</u>	<u>657</u>	<u>21.7</u>	<u>30</u>
<u>10:17</u>	<u>7.25</u>	<u>658</u>	<u>21.8</u>	<u>31</u>

Weather Conditions

Sunny warm clear

Water Color:

clear

Odor:

None

Sediment Description

None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-10</u>	<u>3x40m 100A</u>	<u>Y</u>	<u>HCL</u>	<u>G.T.B.L.</u>	<u>Gas/Biox MTBE</u>

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER

Frank Cline/Lupe Sanchez

DATE

11-28-95

ADDRESS

21995 Foothill Blvd

JOB #

5110.85

CITY

Hayward CA

SS#

9-0260

Well ID

NW-11

Well Condition

Well Location Description

Well Diameter

2" - 4" in

Hydrocarbon Thickness

Total Depth

18.60 ft

Depth to Liquid

16.72 ft

Volume

2" = 0.17

6" = 1.50

12" = 5.80

Factor

3" = 0.38

(VF)

4" = 0.66

of casing 3X
Volume

x 0.17-0.66

x(VF)

Estimated

gal.

Purge Equipment

Sampling Equipment

Disposable Bailer

Did well dewater

If yes, Time

Volume

Starting Time

Purging Flow Rate

Sampling Time

gpm.

Time

pH

Conductivity

Temperature

Volume

Weather Conditions

Water Color:

Sediment Description

Odor:

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
NW-11	3x40m DCA	Y	HCL	GTBL	Gas/Bulk MTBE

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER	<u>Frank Cline/Lupe Sanchez</u>		DATE	<u>11-28-95</u>													
ADDRESS	<u>21995 Foothill Blvd</u>		JOB #	<u>5110.85</u>													
CITY	<u>Hayward CA</u>		SS#	<u>9-0260</u>													
Well ID	<u>MW-12</u>		Well Condition	<u>okay</u>													
Well Location Description																	
Well Diameter	<u>2" - 4"</u> in		Hydrocarbon Thickness	<u>0</u>													
Total Depth	<u>19.00</u> ft		<table border="1"><tr><td>Volume</td><td>2" = 0.17</td><td>6" = 1.50</td><td>12" = 5.80</td></tr><tr><td>Factor</td><td>3" = 0.38</td><td></td><td></td></tr><tr><td>(VF)</td><td>4" = 0.66</td><td></td><td></td></tr></table>	Volume	2" = 0.17	6" = 1.50	12" = 5.80	Factor	3" = 0.38			(VF)	4" = 0.66				
Volume	2" = 0.17	6" = 1.50		12" = 5.80													
Factor	3" = 0.38																
(VF)	4" = 0.66																
Depth to Liquid	<u>16.63</u> ft																
# of casing	<u>3X</u>	<u>2.37</u>	<u>x 0.17 - 0.66</u>	<u>x (VF) 1.6</u>	<u># Estimated 4.8 gal.</u>												
Purge Equipment	<u>Dedicated</u>		Sampling Equipment	<u>Disposable Bailer</u>													
Did well dewater			If yes, Time	Volume													
Starting Time	<u>Continuous</u>		Purging Flow Rate	gpm.													
Sampling Time	<u>11:55</u>																
Time	pH	Conductivity	Temperature	Volume													
<u>11:55</u>	<u>6.88</u>	<u>588</u>	<u>70.3</u>	<u>N/A</u>													
Weather Conditions	<u>Sunny Warm & Clear</u>																
Water Color:	<u>Clear</u>																
Sediment Description	<u>None</u>																
Odor:	<u>Mild</u>																

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-12	3x40m LCA	Y	HCL	GTBL	Gas/BIXE MTBE

Comments

Pump Running Pulled pump & Bailer samples



WELL SAMPLING FIELD DATA SHEET

SAMPLER

Frank Cline/Lupe Sanchez

DATE

11-28-95

ADDRESS

21995 Foothill Blvd

JOB #

5110.85

CITY

Hayward CA

SS#

9-0260

Well ID

NW-13

Well Condition

Well Location Description

Well Diameter

2" - 4" in

Hydrocarbon Thickness

Total Depth

18.80 ft

Depth to Liquid

12.95 ft

Volume

2" = 0.17

6" = 1.50

12" = 5.80

Factor

3" = 0.38

(VF)

4" = 0.66

of casing 3X
Volume

x 0.11-0.66

x(VF)

#Estimated

gal.

Purge Equipment

Sampling Equipment

Disposable Bailer

Did well dewater

If yes, Time

Volume

Starting Time

Purging Flow Rate

Sampling Time

gpm.

Time

pH

Conductivity

Temperature

Volume

Weather Conditions

Water Color:

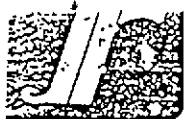
Sediment Description

Odor:

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
NW-13	3x40m DCA	Y	HCL	G.TBL	Gas BULK NITR

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER Frank Cline/Lupe Sanchez DATE 11-28-95
ADDRESS 21995 Foothill Blvd JOB # 5110.85
CITY Hayward CA SS# 9-0260

Well ID MMW-14 Well Condition okay
Well Location Description _____

Well Diameter 2" - 4" in

Total Depth 31.00 ft

Depth to Liquid 20.33 ft

of casing 3X 10.67
Volume

Hydrocarbon Thickness 0

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

x 0.17-0.66 x(VF) 1.8 #Estimated 5.14 gal.

Purge Equipment Stack

Sampling Equipment Disposable Bailer

Did well dewater NO

If yes, Time _____

Volume _____

Starting Time 11:13

Purging Flow Rate 1 gpm.

Sampling Time _____

Time	pH	Conductivity	Temperature	Volume
<u>11:15</u>	<u>7.10</u>	<u>660</u>	<u>19.6</u>	<u>2</u>
<u>11:17</u>	<u>7.65</u>	<u>710</u>	<u>19.8</u>	<u>4</u>
<u>11:19</u>	<u>7.00</u>	<u>715</u>	<u>19.8</u>	<u>6</u>
<u>11:23</u>	<u>7.03</u>	<u>713</u>	<u>19.7</u>	<u>7</u>

Weather Conditions Sunny warm & clear

Water Color: Clear

Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MMW-14</u>	<u>3x40m LDCA</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Gas/BTEX MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER Frank Cline/Lupe Sanchez DATE 11-28-95
ADDRESS 21995 Foothill Blvd JOB # 5110.85
CITY Hayward CA SS# 9-0260

Well ID MW-15 Well Condition okay

Well Location Description

Well Diameter 2" - 4" in

Total Depth 22.08 ft

Depth to Liquid 16.12 ft

Hydrocarbon Thickness

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

of casing 3X
Volume

5196

x 0.17-066 x(VF) 1.0 #Estimated 3 gal.

Purge Equipment

Stick

Sampling Equipment

Disposable Bailer

Did well dewater

NC

If yes, Time

Volume

Starting Time

10:24

Purging Flow Rate

15 gpm

Sampling Time

10:30

Time	pH	Conductivity	Temperature	Volume
<u>10:25</u>	<u>7.40</u>	<u>660</u>	<u>21.7</u>	<u>1</u>
<u>10:26</u>	<u>7.10</u>	<u>670</u>	<u>21.3</u>	<u>2</u>
<u>10:27</u>	<u>7.09</u>	<u>671</u>	<u>21.3</u>	<u>3</u>
<u>10:30</u>	<u>7.10</u>	<u>670</u>	<u>21.3</u>	<u>4</u>

Weather Conditions

Sunny warm clear

Water Color:

None clear

Odor:

None

Sediment Description

None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-15</u>	<u>3x40m 100A</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Gas/Bulk MTBE</u>

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER	<u>Frank Cline/Lupe Sanchez</u>		DATE	<u>11-28-95</u>													
ADDRESS	<u>21995 Foothill Blvd</u>		JOB #	<u>5110.85</u>													
CITY	<u>Hayward CA</u>		SS#	<u>9-060</u>													
Well ID	<u>NW-16</u>		Well Condition	<u>okay</u>													
Well Location Description																	
Well Diameter	<u>2" - 4"</u> in		Hydrocarbon Thickness	<u>0</u>													
Total Depth	<u>37.25</u> ft		<table><tr><td>Volume</td><td>2" = 0.17</td><td>6" = 1.50</td><td>12" = 5.80</td></tr><tr><td>Factor</td><td>3" = 0.38</td><td></td><td></td></tr><tr><td>(VF)</td><td>4" = 0.66</td><td></td><td></td></tr></table>	Volume	2" = 0.17	6" = 1.50	12" = 5.80	Factor	3" = 0.38			(VF)	4" = 0.66				
Volume	2" = 0.17	6" = 1.50		12" = 5.80													
Factor	3" = 0.38																
(VF)	4" = 0.66																
Depth to Liquid	<u>20.42</u> ft																
# of casing	<u>3X</u>	<u>16.83</u>	x	<u>0.17-066</u>	x(VF) <u>2.8</u>												
Volume			#Estimated	<u>8.6</u> gal.													
Purge Equipment	<u>Stack</u>		Sampling Equipment	<u>Disposable Bailer</u>													
Did well dewater	<u>No</u>		If yes, Time	Volume													
Starting Time	<u>10:38</u>		Purging Flow Rate	<u>19</u> gpm.													
Sampling Time	<u>10:50</u>																
Time	pH	Conductivity	Temperature	Volume													
<u>10:41</u>	<u>6.95</u>	<u>530</u>	<u>19.3</u>	<u>3</u>													
<u>10:44</u>	<u>6.80</u>	<u>514</u>	<u>19.5</u>	<u>6</u>													
<u>10:47</u>	<u>6.78</u>	<u>521</u>	<u>19.3</u>	<u>9</u>													
<u>10:50</u>	<u>6.79</u>	<u>520</u>	<u>19.3</u>	<u>10</u>													
Weather Conditions <u>clear sunny clear warm</u>																	
Water Color:	<u>clear</u>		Odor:	<u>Mild</u>													
Sediment Description	<u>None</u>																

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>NW-16</u>	<u>3x40m 100A</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Gas BULK MTBE</u>

Comments



WELL SAMPLING FIELD DATA SHEET

SAMPLER	<u>Frank Cline/Lupe Sanchez</u>		DATE	<u>11-28-95</u>													
ADDRESS	<u>21995 Foothill Blvd</u>		JOB #	<u>5110.85</u>													
CITY	<u>Hayward CA</u>		SS#	<u>9-0260</u>													
Well ID	<u>MW-17</u>		Well Condition	<u>okay</u>													
Well Location Description																	
Well Diameter	<u>2" - 4"</u> in		Hydrocarbon Thickness	<u>0</u>													
Total Depth	<u>33.51</u> ft		<table><tr><td>Volume</td><td>2" = 0.17</td><td>6" = 1.50</td><td>12" = 5.80</td></tr><tr><td>Factor</td><td>3" = 0.38</td><td></td><td></td></tr><tr><td>(VF)</td><td>4" = 0.66</td><td></td><td></td></tr></table>	Volume	2" = 0.17	6" = 1.50	12" = 5.80	Factor	3" = 0.38			(VF)	4" = 0.66				
Volume	2" = 0.17	6" = 1.50		12" = 5.80													
Factor	3" = 0.38																
(VF)	4" = 0.66																
Depth to Liquid	<u>22.97</u> ft																
# of casing Volume	<u>3X 10.54</u>		x(VF)	<u>0.17-0.66</u> x(VF) <u>1.8</u> #Estimated <u>5.3</u> gal.													
Purge Equipment	<u>Stack</u>		Sampling Equipment	<u>Disposable Bailer</u>													
Did well dewater	<u>NC</u>		If yes, Time	Volume													
Starting Time	<u>9:30</u>		Purging Flow Rate	<u>1 gpm</u> gpm.													
Sampling Time																	
Time	pH	Conductivity	Temperature	Volume													
<u>9:37</u>	<u>7.50</u>	<u>320</u>	<u>16.5</u>	<u>2</u>													
<u>9:39</u>	<u>7.57</u>	<u>386</u>	<u>18.2</u>	<u>4</u>													
<u>9:41</u>	<u>7.46</u>	<u>389</u>	<u>18.5</u>	<u>6</u>													
<u>9:44</u>	<u>7.50</u>	<u>390</u>	<u>18.4</u>	<u>7</u>													
Weather Conditions	<u>Sunny clear & cool</u>																
Water Color:	<u>clear</u>																
Sediment Description	<u>None</u>																
Odor:	<u>None</u>																

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-17</u>	<u>3x40m VOA</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Gas BIXE MTBE</u>

Comments

Chain-of-Custody-Record

Chevron Facility Number 9-0260
Facility Address 2199.5 Foothill Blvd Hayward CA
Consultant Project Number 5110.85
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Deanna Harding
(Phone) 510 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) Mark Miller
(Phone) 842-8134
Laboratory Name GTEL
Laboratory Release Number 8829260
Samples Collected by (Name) FRANK CLINE
Collection Date 11-28-95
Signature [Signature]

[illegible]

Relinquished By (Signature) <i>[Signature]</i>	Organization GIR	Date/Time 11-28-95	Received By (Signature) <i>[Signature]</i>	Organization G-P	Date/Time 11/28/95	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <i>[Signature]</i>	Organization G-P	Date/Time 11/28/95	Received By (Signature) <i>[Signature]</i>	Organization GTEL	Date/Time 11/28/95	
Relinquished By (Signature) <i>[Signature]</i>	Organization GTEL	Date/Time 11/28/95	Received For Laboratory By (Signature) <i>[Signature]</i>		Date/Time 11/29/95	

24 Hrs.
48 Hrs.
5 Days
~~10 Days~~

As Contracted



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Midwest Region

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

Project ID (Name): 5110.85
Chevron SS #9-0260
21995 Foothill Blvd.
Hayward, CA

Work Order Number: W5-11-0562

December 11, 1995

Deanna Harding
Gettler-Ryan
6747 Sierra Ct.
Suite J
Dublin, CA 94568

Dear Deanna Harding:

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories on 11-29-95 under your chain-of-custody record.

A formal quality control/quality assurance 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.

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

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

Sincerely,

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

GTEL Wichita, Ks



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

GTEL
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: #W5-11-0562
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 512-0309

Sampled: Nov 28, 1995
Received: Dec 5, 1995
Reported: Dec 8, 1995

QC Batch Number:

GC120595

GC120595

GC120595

GC120595

GC120595

GC120595

802005A

802005A

802005A

802005A

802005A

802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

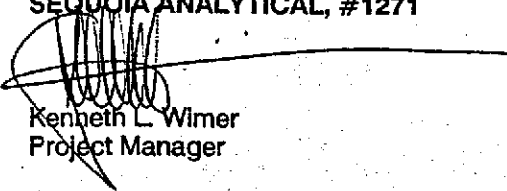
Analyte	Reporting Limit µg/L	Sample I.D. 512-0309 TB-LB	Sample I.D. 512-0310 MW-10	Sample I.D. 512-0311 MW-17	Sample I.D. 512-0312 MW-15	Sample I.D. 512-0313 MW-14	Sample I.D. 512-0314 MW-16
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	N.D.	1,500	38,000
Benzene	0.50	N.D.	1.6	N.D.	N.D.	300	6,200
Toluene	0.50	N.D.	0.81	N.D.	N.D.	72	1,700
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	65	1,800
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	190	5,700
Chromatogram Pattern:		--	--	--	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	10	200
Date Analyzed:	12/5/95	12/5/95	12/5/95	12/5/95	12/5/95	12/5/95
Instrument Identification:	HP-5	HP-5	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	89	82	86	84	87	85

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271


Kenneth L. Wimer
Project Manager

5120309.GTL <1>



Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

GTEL 4211 May Ave. Wichita, KS 67209 Attention: Justin Ward	Client Project ID: #W5-11-0562 Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 512-0315	Sampled: Nov 28, 1995 Received: Dec 5, 1995 Reported: Dec 8, 1995
--	--	---

QC Batch Number:	GC120695	GC120695	GC120695	GC120695
	802004A	802004A	802004A	802004A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

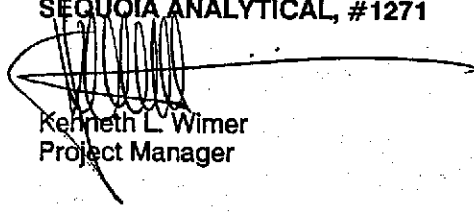
Analyte	Reporting Limit µg/L	Sample I.D. 512-0315 MW-12	Sample I.D. 512-0316 MW-8	Sample I.D. 512-0317 MW-5	Sample I.D. 512-0318 MW-4
Purgeable Hydrocarbons	50	110,000	100,000	320,000	97,000
Benzene	0.50	26,000	6,900	34,000	23,000
Toluene	0.50	22,000	34,000	38,000	18,000
Ethyl Benzene	0.50	2,300	2,700	5,800	1,400
Total Xylenes	0.50	12,000	16,000	31,000	8,800
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	500	500	500	500
Date Analyzed:	12/6/95	12/6/95	12/6/95	12/6/95
Instrument Identification:	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	93	95	100	95

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271


Kenneth L. Wimer
Project Manager

5120309.GTL <2>



Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

GTEL
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: #W5-11-0562
Sample Descript: Water
Analysis for: MTBE (Modified EPA 8020)
First Sample #: 512-0309

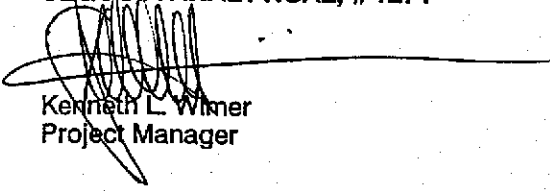
Sampled: Nov 28, 1995
Received: Dec 5, 1995
Analyzed: Dec 5-6, 1995
Reported: Dec 8, 1995

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit $\mu\text{g/L}$	Sample Result $\mu\text{g/L}$	QC Batch Number	Instrument ID
512-0309	TB-LB	0.60	N.D.	GC120595802005A	HP-5
512-0310	MW-10	0.60	N.D.	GC120595802005A	HP-5
512-0311	MW-17	0.60	N.D.	GC120595802005A	HP-5
512-0312	MW-15	0.60	N.D.	GC120595802005A	HP-5
512-0313	MW-14	6.0	N.D.	GC120595802005A	HP-5
512-0314	MW-16	120	N.D.	GC120595802005A	HP-5
512-0315	MW-12	300	1,100	GC120695802004A	HP-4
512-0316	MW-8	300	650	GC120695802004A	HP-4
512-0317	MW-5	300	2,000	GC120695802004A	HP-4
512-0318	MW-4	300	430	GC120695802004A	HP-4

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

SEQUOIA ANALYTICAL, #1271


Kenneth L. Wimer
Project Manager

5120309.GTL <3>



Sequoia
Analytical

680 Chesapeake Drive
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FAX (916) 921-0100

GTEL
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: #W5-11-0562
Matrix: Liquid

QC Sample Group: 5120309-18

Reported: Dec 8, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC120595 802005A	GC120595 802005A	GC120595 802005A	GC120595 802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	N. Beaman	N. Beaman	N. Beaman	N. Beaman
MS/MSD #:	5120310	5120310	5120310	5120310
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/5/95	12/5/95	12/5/95	12/5/95
Analyzed Date:	12/5/95	12/5/95	12/5/95	12/5/95
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	19	19	57
MS % Recovery:	100	95	95	95
Dup. Result:	20	19	18	57
MSD % Recov.:	100	95	90	95
RPD:	0.0	0.0	5.1	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	3LCS120595	3LCS120595	3LCS120595	3LCS120595
Prepared Date:	12/5/95	12/5/95	12/5/95	12/5/95
Analyzed Date:	12/5/95	12/5/95	12/5/95	12/5/95
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	17	18	18	55
LCS % Recov.:	87	88	89	91

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Please Note:

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

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

5120309.GTL <4>



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GTEL
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: #W5-11-0562
Matrix: Liquid

QC Sample Group: 5120309-318

Reported: Dec 8, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC120695 802004A	GC120695 802004A	GC120695 802004A	GC120695 802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	N. Beaman	N. Beaman	N. Beaman	N. Beaman
MS/MSD #:	5120180	5120180	5120180	5120180
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/6/95	12/6/95	12/6/95	12/6/95
Analyzed Date:	12/6/95	12/6/95	12/6/95	12/6/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	20	20	61
MS % Recovery:	100	100	100	102
Dup. Result:	20	21	21	62
MSD % Recov.:	100	105	105	103
RPD:	0.0	4.9	4.9	1.6
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS120695	2LCS120695	2LCS120695	2LCS120695
Prepared Date:	12/6/95	12/6/95	12/6/95	12/6/95
Analyzed Date:	12/6/95	12/6/95	12/6/95	12/6/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	18	18	18	55
LCS % Recov.:	90	90	90	92

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Please Note:

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

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

5120309.GTL <5>