Letter of Transmittal

Chevron

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd., Bldg. L
P.O. Box 5004
San Ramon, CA 94583-0804

Site Assessment & Remediation Group
Phone (510) 842-9500

September 29, 1995

Mr. Ravi Arulananthum
San Francisco Bay RWQCB - Oakland Office

Subject: Chevron Facility 1001067
Groundwater Monitoring Reports, dated May 26, 1995
Second Quarter 1995 Sampling Event
Prepared by Gettler-Ryan Inc.

Ms. Christian:

Attached are monitoring results for the former Chevron Asphalt Plant and Terminal. Groundwater conditions remain consistent with those of last quarter reported. Please call if you have any questions. My phone number is (510) 842-9655

R. J. (Bob) Cochran
Project Manager

rjco: (1001067)
cc: **Ms. Susan Hugo - Alameda County Health Agency**

GETTLER-RYAN INC.

May 26, 1995

Robert Cochran
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Chevron Asphalt Plant and
Terminal #1001067
Powell @ Landgren
Emeryville, CA
Job #5161.85

Dear Mr. Cochran:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan (G-R) personnel. On April 19, 1995, field personnel were on-site to gauge and sample eight wells (MW-7, MW-10, MW-11, MW-13, MW-15 and MW-17 through MW-19) at Former Chevron Asphalt Plant and Terminal located at Powell at Landgren Street in Modesto, California.

Static groundwater levels were measured on April 19, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one of the site wells, MW-2. 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 Superior Precision Analytical, Inc. Analytic results are presented in Tables 1 and 2. The chain of custody document and laboratory analytic reports are enclosed. G-R is not responsible for laboratory omissions or errors.

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

Respectfully submitted,

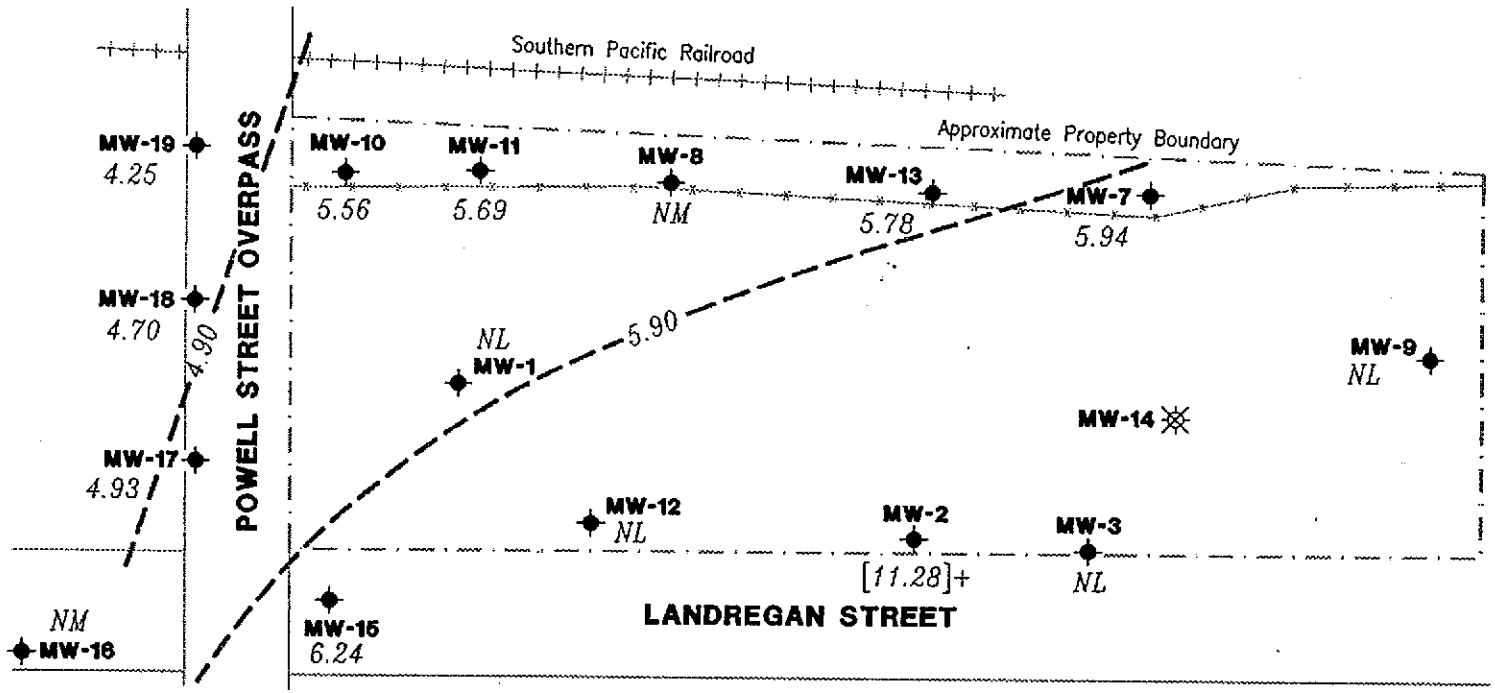
Argy Leyton
Environmental Project Manager

Stephen J. Carter
Senior Geologist, R.G. 5577

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

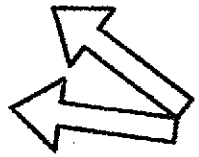
AML/SJC/aml
5161.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytic Results
Table 2: Analytic Results for Groundwater - Halogenated Volatile Organic Compounds
Attachments: Standard Operating Procedure
Field Data Sheets
Chain of Custody Document and Laboratory Analytic Reports

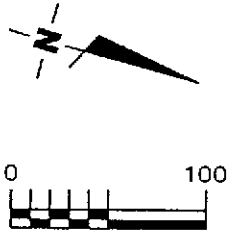


EXPLANATION:

✦	Groundwater monitoring well	*NL*	Well not located
✳	Abandoned groundwater monitoring well	*NM*	Not measured
99.99	Groundwater elevation in feet referenced to Mean Sea Level (MSL)	+	Groundwater elevation corrected for presence of separate phase hydrocarbons
		[*99.99*]	Not used in contouring
99.99	Groundwater elevation contour, dashed where inferred.		



Approximate groundwater flow direction at a gradient of 0.005 to 0.01 Ft./Ft.



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

POTENTIOMETRIC MAP
Former Chevron Asphalt Plant
and Terminal No. 1001067
Emeryville, California

FIGURE
1

JOB NUMBER
5161.85

REVIEWED BY

DATE
April 19, 1995

REVISED DATE

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<------	------	ppb	------	------>	<-ppm->
MW-1/											
10.67	4/26/85	—	—	—	—	—	99	—	—	6.0	—
	9/11/87	—	—	—	—	—	63	—	—	—	—
	7/7/88	—	—	—	—	<100	55	—	—	—	—
	4/13/89	3.72	6.95	—	—	—	—	—	—	—	—
	4/14/89	—	—	—	8260	<5,000	34	<5.0	<5.0	<10	—
	7/31/89	5.72	4.95	0	8260	7,000	57	1.2	<0.2	1.6	—
	12/8/89	4.80	5.87	0	8015/8020	—	26	0.4	0.9	2.0	—
	3/21/90	4.74	5.93	0	8015/8020	3,500	120	9.0	3.0	3.0	—
	6/19/90	4.75	5.92	0	8015/8020	2,700	100	<0.3	<0.3	7.0	—
	9/20/90	5.07	5.60	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	2,200	120	2.0	2.0	0.79	—
	12/28/90	4.91	5.76	0	8015/8020	720	44	2.0	<0.5	9.0	—
	5/10/91	5.30	5.37	0	8015/8020	530	47	2.0	0.5	8.0	—
	8/8/91	5.85	4.82	0	8015/8020	1,400	37	8.3	3.7	12	—
	11/27/91	5.13	5.54	0	8015/8020	840	16	7.1	4.5	11	—
	1/29/92	4.82	5.85	0	8015/8020	350	18	9.3	3.7	7.7	—
	3/26/92	4.32	6.35	0	8015/8020	420[11]	19	2.2	1.2	4.0	—
	7/23/92	5.42	5.25	0	8015/8020	4,000[12]	50	82	40	160	—
	10/28/92	5.56	5.11	0	8015/8020	980	36	6.7	3.0	10	—
	5/4/93	6.30	4.37	0	8015/8020	650	9.4	2.4	1.2	4.5	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
MW-2/											
13.78	4/26/85	—	—	—	—	—	<10	—	—	—	—
	9/11/87	—	—	—	—	—	—	—	—	—	—
	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/13/89	2.62	11.16	—	—	—	—	—	—	—	—
	4/14/89	—	—	—	8260	<100	<0.2	<0.2	<0.2	<0.4	<3,000
	7/31/89	4.63	9.15	0	8260	<100	<0.2	<1.0	<0.2	<0.4	—
	12/8/89	5.98	7.80	0	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	5.85	7.93	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.95	7.83	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	6.86	6.92	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	<1.5	<1.5	<1.5	<4.5	—
	12/28/90	6.34	7.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.96	7.82	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	7.66	6.12	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	8.04	5.74	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	6.01	7.77	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<-----ppb----->					<ppm>
MW-2	3/26/92	6.10	7.68	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
(cont)	7/23/92	7.39	6.39	0	8015/8020	<50	<0.5	<0.5	<0.5	0.8	—
	10/28/92	7.51	6.27	0	8015/8020	55	1.3	6.9	1.1	5.1	—
	5/4/93[8]	—	—	—	—	—	—	—	—	—	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
	10/24/94	Dry	—	—	—	—	—	—	—	—	—
	4/19/95	2.51	11.28[14]	0.01	—	—	—	—	—	—	—
MW-3/ 11.73	4/26/85	—	—	—	—	—	<10	—	—	—	—
	9/11/87	—	—	—	—	—	<0.5	—	—	—	—
	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/13/89	2.34	9.39	—	—	—	—	—	—	—	—
	4/14/89	—	—	—	8260	<100	<0.2	<0.2	<0.2	<0.4	<3,000
	7/31/89	4.79	6.94	0	8260	<100	<0.2	<1.0	<0.2	<0.4	—
	12/8/89	3.03	8.70	0	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	2.55	9.18	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	2.76	8.97	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	4.43	7.30	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	3.67	8.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	2.83	8.90	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.09	6.64	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.37	6.36	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	3.46	8.27	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	2.10	9.63	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	4.60	7.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	5.07	6.66	0	8015/8020	92	1.8	12	2.0	10	—
	5/4/93[8]	—	—	—	—	—	—	—	—	—	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
MW-4	4/26/85	—	—	—	—	3,100	<10	—	—	—	—
	9/11/87	—	—	—	—	—	<0.5	—	—	—	—
	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/13/89[5]	2.12	—	—	—	—	—	—	—	—	—
	4/14/89[4]	—	—	—	8260	380[13]	<0.5	<1.0	<1.0	<1.0	<3,000

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<ppm>
MW-5	4/26/85	—	—	—	—	1,600	<100	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/13/89[3]	2.79	—	—	—	—	—	—	—	—	—
	4/14/89[4]	—	—	—	8260	4,300[13]	<0.5	<1.0	<1.0	<1.0	<3,000
MW-6	4/26/85	—	—	—	—	580	<100	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	8,000	<5.0	—	—	—	—
	4/13/89[3]	1.90	—	—	—	—	—	—	—	—	—
	4/14/89[4]	—	—	—	8260	3,300[13]	<0.5	<1.0	<1.0	<1.0	<3,000
MW-7/ 10.47	4/26/85	—	—	—	—	700	ND	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	17,000	<5.0	—	—	—	—
	4/13/89	1.90	8.57	—	—	—	—	—	—	—	—
	4/14/89	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	4.24	6.23	—	8260	160[13]	<0.1	<0.5	<0.1	<0.2	—
	7/31/89	—	—	—	8260	100[13]	<0.1	<0.5	<0.1	<0.2	—
	12/8/89	2.65	7.82	0	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	2.76	7.71	0	8015/8020	<50	<0.3	<0.3	<0.3	0.6	—
	6/19/90	3.24	7.23	0	8015/8020	<50	<0.3	<0.3	<0.3	0.6	—
	9/20/90	4.57	5.90	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	1.5	<0.3	<0.3	<0.6	—
	12/28/90	3.12	7.35	0	8015/8020	<50	0.7	<0.5	<0.5	0.7	—
	5/10/91	3.53	6.94	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	4.64	5.83	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	3.66	6.81	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	3.24	7.23	0	8015/8020	<50	<0.5	<0.5	<0.5	0.9	—
	3/26/92	2.61	7.86	0	8015/8020	<50	<0.5	<0.5	<0.5	0.9	—
	7/23/92	4.19	6.28	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	4.39	6.08	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/4/93[9]	—	—	—	—	—	—	—	—	—	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
	5/13/94	4.41	6.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94	5.03	5.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	4.53	5.94	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<ppm>
MW-8/ 10.46	4/26/85	—	—	—	—	—	ND	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	20,000	<5.0	—	—	—	—
	4/13/89	2.80	7.66	—	—	—	—	—	—	—	—
	4/14/89	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	5.70	4.76	0	8260	<50	<0.1	<0.5	<0.1	<0.2	—
	12/8/89	4.13	6.33	0	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	4.07	6.39	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	4.25	6.21	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	4.99	5.47	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	6.0	<0.3	<0.3	<0.6	—
	12/28/90	4.39	6.07	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	4.13	6.33	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.53	4.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	4.59	5.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	5.30	5.16	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	3.59	6.87	0	8015/8020	<50	<0.5	<0.5	<0.5	0.7	—
	7/23/92	5.06	5.40	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92[7]	—	—	—	—	—	—	—	—	—	—
	5/4/93[8]	—	—	—	—	—	—	—	—	—	—
	1/5/94[8]	—	—	—	—	—	—	—	—	—	—
	5/13/94	5.59	4.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94[7]	—	—	—	—	—	—	—	—	—	—
	4/19/95[4]	—	—	—	—	—	—	—	—	—	—
MW-9	4/26/85	—	—	—	—	—	—	—	—	—	—
	9/11/87	—	—	—	—	—	—	—	—	—	—
	7/7/88	—	—	—	—	400	—	—	—	—	—
	5/10/91[3]	—	—	—	—	—	—	—	—	—	—
MW-10/ 10.82	7/7/88	—	—	—	—	—	<5.0	—	—	—	—
	4/14/89	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	—	—	—	8260	<50	<0.1	<0.5	<0.1	<0.2	—
	12/8/89	—	—	—	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	4.60	6.22	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	4.89	5.93	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<mm>
MW-10	9/20/90	5.77	5.05	—	—	—	—	—	—	—	—
(cont)	9/21/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	4.99	5.83	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.80	5.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.86	4.96	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.39	5.43	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	5.44	5.38	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	4.96	5.86	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	5.80	5.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	6.06	4.76	0	8015/8020	<50	<0.5	1.8	0.5	1.9	—
	5/4/93[8]	—	—	—	—	—	0.6	0.7	<0.5	1.2	—
	1/5/94	5.92	4.90	0	8015/8020	<50	<0.5	<0.5	<0.5	0.6	—
	5/13/94	5.09	5.73	0	8015/8020	140	<0.5	<0.5	<0.5	1.3	—
	10/24/94	6.24	4.58	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	**5.26**	**5.56**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**—**
MW-11/											
11.38	7/7/88	—	—	—	—	—	<5.0	—	—	—	—
	4/14/89	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	—	—	—	8260	<100	<0.2	<0.2	<0.2	<0.2	—
	12/8/89	—	—	—	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	4.82	6.56	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.14	6.24	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	6.11	5.27	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	5.16	6.22	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	7.83	3.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	6.32	5.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.67	5.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	5.83	5.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	4.09	7.29	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	6.19	5.19	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	6.51	4.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/4/93[8]	—	—	—	—	—	—	—	—	—	—
	1/5/94[8]	—	—	—	—	—	—	—	—	—	—
	5/13/94	5.67	5.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94	6.79	4.59	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	**5.69**	**5.69**	**0**	**8015/8020**	**58[15]**	**0.6**	**<0.5**	**<0.5**	**0.5**	**—**

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<ppm>
MW-12/ 13.03	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/14/89	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	—	—	—	8260	<100	<0.1	<0.5	<0.1	<0.2	—
	12/8/89	—	—	—	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	6.76	6.27	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	—
	6/19/90	6.62	6.41	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	—
	9/20/90	5.00	8.03	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	—
	12/28/90	6.62	6.41	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	6.48	6.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	8.01	5.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	7.95	5.08	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	7.68	5.35	0	8015/8020	<50	<0.5	<0.5	<0.5	1.0	—
	3/26/92	6.60	6.43	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92[6]	—	—	—	—	—	—	—	—	—	—
MW-13/ 11.15	3/21/90	4.08	7.07	0	8015/8020	480	<0.3	<0.3	1.0	5.0	—
	6/19/90	4.34	6.81	0	8015/8020	180	<0.3	<0.3	0.8	3.0	—
	9/20/90	5.31	5.84	0	8015/8020	150	<0.3	<0.3	<0.3	0.54	—
	12/28/90	4.79	6.36	0	8015/8020	160	<0.5	<0.5	<0.5	1.0	—
	5/10/91	4.20	6.95	0	8015/8020	110	<0.5	<0.5	<0.5	2.0	—
	8/8/91	5.13	6.02	0	8015/8020	220[4]	<0.5	<0.5	<0.5	1.8	—
	11/27/91	4.72	6.43	0	8015/8020	70	<0.5	<0.5	<0.5	1.2	—
	1/29/92	4.69	6.46	0	8015/8020	150	<0.5	<0.5	3.1	7.1	—
	3/26/92	4.04	7.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	5.12	6.03	0	8015/8020	190	<0.5	<0.5	<0.5	2.1	—
	10/28/92	5.30	5.85	0	8015/8020	190	<0.5	<0.5	<0.5	2.0	—
	5/4/93[6]	—	—	—	—	—	—	—	—	—	—
	1/5/94[6]	—	—	—	—	—	—	—	—	—	—
	5/13/94	5.28	5.87	0	8015/8020	220	<0.5	1.2	<0.5	1.7	—
	10/24/94	6.04	5.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	**5.37**	**5.78**	**0**	**8015/8020**	**140[15]**	**<0.5**	**<0.5**	**<0.5**	**1.2**	—
MW-14/ 9.78	3/21/90	0.91	8.87	0	8015/8020	170	<0.3	<0.3	<0.4	2.0	—
	6/19/90	1.03	8.75	0	8015/8020	77	<0.3	<0.3	<0.3	<0.6	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<ppm>
MW-14 (cont)	9/20/90	2.53	7.25	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	1.61	8.17	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	1.22	8.56	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	2.45	7.33	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	2.59	7.19	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	1.10	8.68	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	0.74	9.04	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	2.30	7.48	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	2.76	7.02	0	8015/8020	<50	0.6	<0.5	<0.5	0.8	—
	5/4/93[9]	—	—	—	—	56	0.7	4.0	0.8	3.8	—
MW-15/ 11.01	3/21/90	4.72	6.29	0	8015/8020	—	—	—	—	—	—
	6/19/90	4.78	6.23	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	4.98	6.03	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	4.84	6.17	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	5/10/91	4.58	6.43	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.03	5.98	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.88	5.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	4.82	6.19	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	4.35	6.66	0	8015/8020	<50	1.9	2.6	0.8	2.6	—
	7/23/92	5.04	5.97	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	5.17	5.84	0	8015/8020	<50	<0.5	<0.5	<0.5	0.5	—
	5/4/93[8]	—	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
	5/13/94	4.50	6.51	0	8015/8020	110	<0.5	0.7	<0.5	2.0	—
	10/24/94	5.17	5.84	0	8015/8020	<50	2.3	1.1	<0.5	<0.5	—
	4/19/95	4.77	6.24	0	8015/8020	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	—
MW-16/ 11.11	3/21/90	5.84	5.27	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.90	5.21	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	6.36	4.75	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	5.98	5.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.89	5.22	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	6.28	4.83	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.62	5.49	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	5.88	5.23	0	8015/8020	65	3.6	6.2	1.9	6.6	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<ppm>
MW-16 (cont)	3/26/92	5.56	5.55	0	8015/8020	270[5]	21	27	9.5	41	—
	7/23/92	6.29	4.82	0	8015/8020	<50	<0.5	<0.5	<0.5	0.7	—
	10/28/92	6.29	4.82	0	8015/8020	<50	0.9	1.4	<0.5	1.1	—
	5/4/93	5.75	5.36	0	8015/8020	51	<0.5	1.0	0.6	1.7	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
MW-17/ 10.41	3/21/90	5.61	4.80	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	6.02	4.39	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	5.73	4.68	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.65	4.76	0	8015/8020	<50	<0.5	<0.5	<0.5	0.8	—
	8/8/91	5.94	4.47	0	8015/8020	82	1.9	2.5	0.9	5.4	—
	11/27/91	6.00	4.41	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	5.61	4.80	0	8015/8020	<50	<0.5	0.9	<0.5	0.5	—
	3/26/92	5.31	5.10	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	5.97	4.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	5.96	4.45	0	8015/8020	78	1.0	7.1	1.4	6.5	—
	5/4/93	7.53	2.88	0	8015/8020	60	0.8	1.7	1.1	3.0	—
	1/5/94	5.50	4.91	0	8015/8020	<50	<0.5	0.7	<0.5	<0.5	—
	5/13/94	5.17	5.24	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94	6.08	4.33	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	5.48	4.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
MW-18/ 9.80	3/21/90	5.15	4.65	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.19	4.61	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	5.54	4.26	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	5.26	4.54	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.18	4.62	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.45	4.35	0	8015/8020	52	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.24	4.56	0	8015/8020	<50	0.6	1.5	0.6	2.1	—
	1/29/92	5.12	4.68	0	8015/8020	67	3.7	5.2	1.5	5.0	—
	3/26/92	4.84	4.96	0	8015/8020	80[5]	<0.5	<0.5	<0.5	0.8	—
	7/23/92	5.49	4.31	0	8015/8020	50[5]	1.3	2.1	0.5	3.0	—
	10/28/92	5.47	4.33	0	8015/8020	54	<0.5	1.3	<0.5	1.1	—
	5/4/93	5.07	4.73	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	—
	1/5/94	5.05	4.75	0	8015/8020	<50	<0.5	0.5	<0.5	0.6	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<ppm>
MW-18	5/13/94	4.76	5.04	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
(cont)	10/24/94	5.65	4.15	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	5.10	4.70	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
MW-19/											
8.45	3/21/90	5.00	3.45	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.06	3.39	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	5.25	3.20	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	5.07	3.38	0	8015/8020	66	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.02	3.43	0	8015/8020	60[4]	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.17	3.28	0	8015/8020	58	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.06	3.39	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	4.93	3.52	0	8015/8020	<50	1.7	2.6	0.7	2.1	—
	3/26/92	4.79	3.66	0	8015/8020	80[5]	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	5.22	3.23	0	8015/8020	70[5]	0.6	0.5	<0.5	1.5	—
	10/28/92	5.16	3.29	0	8015/8020	170	4.3	28	5.1	24	—
	5/4/93	4.93	3.52	0	8015/8020	120	2.0	4.7	2.8	8.1	—
	1/5/94	4.91	3.54	0	8015/8020	<50	2.0	1.4	1.7	2.5	—
	5/13/94	4.18	4.27	0	8015/8020	<50	<0.5	0.9	<0.5	<0.5	—
	10/24/94	4.85	3.60	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	4.20	4.25	0	8015/8020	270[15]	<0.5	<0.5	<0.5	<0.5	—
Trip Blank											
AA	4/14/89	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	—
	7/31/89	—	—	—	8260	<50	<0.1	<0.5	<0.5	<0.2	—
	12/8/89	—	—	—	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	3/26/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/21/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.6	—
	5/10/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
TB-LB	7/23/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPPH(G)	B	T	E	X	O&G
						<----------ppb---------->					<ppm>
TB-LB (cont)	5/4/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	—
	1/5/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/13/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
Bailer Blank BB	5/10/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/4/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	—
	1/5/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/13/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
O&G = Oil and Grease
ppb = Parts per billion
ppm = Parts per million
— = Not available/not applicable

ANALYTIC METHODS:

8260 = EPA Method 8260 for TPPH(G) & BTEX
8015 = EPA Method 8015/8030 for TPPH(G)
8020 = EPA Method 8020 for BTEX

NOTES:

Water level elevation data and laboratory analytic results prior to April 19, 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Sierra Environmental Services.

NOTES (continued):

[1] Top of casing elevations shown prior to 3/21/90 were surveyed to an arbitrary datum point set at 100 feet. The GWEs shown for dates prior to 3/21/90 were corrected using new TOC elevations which were surveyed to a USGS benchmark (relative to mean sea level) in April 1990.
[2] Product thickness measurements on and after May 10, 1991 were made using an MMC flexi-dip interface probe. Product thickness information prior to May 10, 1991 was not available for inclusion in this report.
[3] Well construction details for this well is not available for inclusion in this report.
[4] Monitoring well was destroyed during soil excavation in 1989.
[5] Well MW-9 was not measured after 5/10/91 because it could not be located. Previous water level data was not available for inclusion in this report.
[6] Well MW-12 could not be located after building demolition.
[7] Well was obstructed.
[8] Monitoring well obstructed due to on-site construction activities.
[9] Monitoring well abandoned on March 10, 1993 by Soils Exploration Services of Benicia, California.
[10] Well covered with asphalt during construction activities.
[11] Does not match a typical gasoline pattern.
[12] Gasoline range concentration reported. Chromatogram shows only a single peak in the gasoline range.
[13] TPH was reported as Diesel #2.
[14] GWE was corrected for the presence of separate-phase hydrocarbons using: GWE = [(TOC-DTW) + (Prod Thickness)(0.8)]. 0.8 is the assumed specific gravity of separate-phase hydrocarbons.
[15] Laboratory report indicates that hydrocarbons were found in the range of gasoline, but do not resemble a gasoline fingerprint.

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<				ppb						>
MW-1	4/14/89	CCAS	8010	<5.0	—	19	720	<5.0	<5.0	11	<5.0	<20	340	ND[1]
	7/31/89	CCAS	8010	6.8	—	54	2,600	2.7	7.2	57	<0.2	<1.0	760	ND[2]
	12/8/89	GTEL	8010	4.3	2,700	—	—	1.7	1.4	59	<0.5	<0.5	520	—
	3/21/90	GTEL	8010	7.1	7,000	—	—	2.1	1.1	130	<0.5	<0.5	1,100	—
	6/19/90	GTEL	8010	12	6,100	—	—	3.1	<0.5	81	<0.5	<0.5	1,200	—
	9/21/90	GTEL	8010	1.8	2,400	—	—	2.2	1.7	60	<0.5	<0.5	1,100	ND[3]
	12/28/90	SAL	8010	2.0	—	28	1,500	1.0	0.6	15	<0.5	<0.5	510	ND[4]
	5/10/91	SAL	8010	10	—	69	5,500	2.0	<0.5	280	<0.5	<0.5	1,800	ND[5]
	8/8/91	SAL	8010	2.9	—	45	2,300	1.5	<0.5	110	<0.5	<0.5	<1.0	ND[6]
	11/27/91	SPA	8010	<25	—	<25	5,900	<25	<25	<25	<25	<25	540	ND[20]
	1/29/92	SPA	8010	<25	—	26	1,900	<25	<25	<25	<25	<25	320	ND[20]
	3/26/92	SPA	8010	<50	—	<50	1,500	<50	<50	<50	<50	<50	260	ND[21]
	7/23/92	SPA	8010	<50	—	<50	2,300	<50	<50	<50	<50	<50	170	ND[21]
	10/28/92	SPA	8010	4.2	—	30	1,600	3.6	<0.5	16	<0.5	<0.5	810	ND
	5/4/93	SPA	8010	1.0	—	16	670	0.5	<0.5	9.2	<0.5	<0.5	110	ND[18]
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[27]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2	4/14/89	CCAS	8010	<0.2	<0.2	—	—	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	—
	7/31/89	CCAS	8010	<0.2	<0.2	—	—	<0.4	0.5	<0.2	<0.2	<1.0	<0.2	—
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[28]	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/24/94[30]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-3	4/14/89	CCAS	8010	<0.2	<0.2	—	—	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	—
	7/31/89	CCAS	8010	<0.2	<0.2	—	—	<0.4	0.5	<0.2	<0.2	<1.0	<0.2	—
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<					ppb					>
MW-3	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
(cont)	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[27]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-4	4/14/89[7]	CCAS	8010	<1.0	<1.0	—	—	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
MW-5	4/14/89[7]	CCAS	8010	<1.0	<1.0	—	—	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
MW-6	4/14/89[7]	CCAS	8010	<1.0	<1.0	—	—	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
MW-7	4/14/89	CCAS	8010	<1.0	<1.0	—	—	1.0	1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	0.3	—	—	0.3	4.5	<0.1	<0.1	<0.5	<0.1	ND[8]
(D)	7/31/89	GTEL	8010	<0.1	0.4	—	—	0.2	2.6	<0.1	<0.1	<0.5	<0.1	ND[8]
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	1.4	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	4/19/95	**SPA**	**8010**	**<0.5**	**—**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**ND[18]**

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<				ppb						>
MW-8	4/14/89	CCAS	8010	<1.0	<1.0	—	—	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	—	0.6	1.9	1.7	1.7	0.4	<0.1	<0.5	1.2	ND
	12/8/89	GTEL	8010	<0.2	0.53	—	—	<0.5	0.84	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	0.96	—	—	<0.5	0.72	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	0.59	—	—	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	10/28/92[23]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94[28]	—	—	—	—	—	—	—	—	—	—	—	—	—
	4/19/95[28]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-9	5/10/91[9]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-10	4/14/89	CCAS	8010	<1.0	15	—	—	2.0	<1.0	5.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	0.7	—	6.3	27	2.9	<0.1	5.3	<0.1	<0.5	<0.1	ND
	12/8/89	GTEL	8010	<0.2	24	—	—	3.1	<0.5	4.9	<0.5	0.6	<1.0	—
	3/21/90	GTEL	8010	0.7	30	—	—	2.5	<0.5	3.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	0.3	33	—	—	2.6	<0.5	6.3	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	32	—	—	5.0	<0.5	5.9	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	6.0	19	2.0	<0.5	5.0	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	0.6	—	7.0	24	2.0	<0.5	6.0	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	7.0	33	3.1	<0.5	6.2	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	6.8	100	<0.5	<0.5	8.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	9.1	30	2.8	<0.5	7.4	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	0.7	—	9.2	29	2.5	<0.5	6.8	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	6.1	21	1.5	<0.5	4.7	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	4.3	16	2.1	<0.5	4.1	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94	SPA	8010	<0.5	—	1.3	5.2	0.5	1.0	0.8	<0.5	<0.5	<1.0	ND[18]
	5/13/94	SPA	8010	<0.5	—	12	31	2.7	<0.5	4.8	<0.5	<0.5	<0.5	ND[29]
	10/24/94[33]	SPA	8010	<10	—	13	44	<10	<10	<10	<10	<10	<10	ND[31,33]
	4/19/95	SPA	8010	0.7	—	14	36	<0.5	<0.5	9.2	<0.5	<0.5	<0.5	ND[18]

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<----					ppb					---->
MW-11	4/14/89	CCAS	8010	<1.0	120	—	—	<1.0	<1.0	4.0	<1.0	<2.0	10	—
	7/31/89	CCAS	8010	0.9	—	40	110	2.2	1.4	2.9	<0.2	<0.2	<0.2	ND
	12/8/89	GTEL	8010	0.5	120	—	—	2.1	1.2	4.1	<0.5	<0.5	2.4	—
	3/21/90	GTEL	8010	1.3	150	—	—	1.2	1.7	3.5	<0.5	<0.5	4.3	ND[10]
	6/19/90	GTEL	8010	0.068	140	—	—	1.3	<0.5	5.0	<0.5	<0.5	1.0	—
	9/21/90	GTEL	8010	<0.2	100	—	—	1.1	<0.5	3.8	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	23	43	0.9	0.7	3.0	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	0.9	—	44	110	0.5	<0.5	5.0	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	29	77	0.9	<0.5	2.4	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	34	240	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<5.0	—	33	91	<5.0	<5.0	<5.0	<5.0	<5.0	<10	ND
	3/26/92	SPA	8010	<2.5	—	21	51	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	ND
	7/23/92	SPA	8010	<0.5	—	18	46	0.6	<0.5	1.4	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	0.5	—	36	80	<0.5	<0.5	4.6	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	62	82	<0.5	<0.5	7.9	<0.5	<0.5	1.7	ND[29]
	10/24/94[33]	SPA	8010	<10	—	28	75	<10	<10	<10	<10	<10	<10	ND[31,33]
	4/19/95	SPA	8010	<0.5	—	18	39	<0.5	<0.5	6.5	<0.5	1.0	<0.5	ND[34]
MW-12	4/14/89	CCAS	8010	<1.0	1.0	—	—	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	1.7	—	—	<0.1	<0.1	0.8	<0.1	<0.5	<0.1	ND
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92[22]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-13	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/20/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[11]
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<-------- ppb -------->										
MW-13 (cont)	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	4/19/95	**SPA**	**8010**	**<0.5**	**—**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**ND[18]**
MW-14	3/21/90	GTEL	8010	<2.0	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<2.0	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/20/90	GTEL	8010	<2.0	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[23]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-15	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/20/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[12]
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	3.1	<0.5	3.8	<0.5	ND[29]
	4/19/95	**SPA**	**8010**	**<0.5**	**—**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**ND[18]**

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<				ppb						>
MW-16	3/21/90	GTEL	8010	<0.2	0.8	—	—	<0.5	<0.5	27	8.0	2.0	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	35	7.0	2.0	<1.0	—
	9/20/90	GTEL	8010	<0.2	0.9	—	—	<0.5	<0.5	49	15	4.1	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	29	18	4.0	<1.0	ND[13]
	5/10/91	SAL	8010	<0.5	—	<0.5	0.5	<0.5	<0.5	32	10	4.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	35	13	1.9	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	1.3	<0.5	<0.5	47	12	1.8	<1.0	ND[15]
	1/29/92	SPA	8010	<0.5	—	<0.5	0.9	<0.5	<0.5	31	11	1.8	<1.0	ND
	3/26/92	SPA	8010	<0.8	—	<0.8	<0.8	<0.8	<0.8	24	8.5	1.7	<1.7	ND[19]
	7/23/92	SPA	8010	<0.5	—	<0.5	0.9	<0.5	<0.5	37	12	1.0	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	1.7	<0.5	<0.5	39	14	1.1	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	32	10	1.1	<1	ND[16]
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[27]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-17	3/21/90	GTEL	8010	<0.2	5.2	—	—	0.7	1.3	32	11	1.1	<1.0	—
	6/19/90	GTEL	8010	<0.2	3.1	—	—	<0.5	1.0	38	13	1.2	<1.0	—
	9/20/90	GTEL	8010	<0.2	2.4	—	—	<0.5	1.4	44	16	2.8	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.6	34	15	2.0	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	3.0	<0.5	0.6	37	14	1.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	2.5	<0.5	<0.5	69	15	0.9	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	13	<0.5	<0.5	59	14	2.4	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	2.9	<0.5	0.8	35	15	1.1	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	1.5	<0.5	0.7	41	12	0.6	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	31	14	0.8	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	1.6	<0.5	<0.5	42	11	0.8	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	26	12	0.6	<1.0	ND[16]
	1/5/94	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	25	13	0.8	<1.0	ND[16]
	5/13/94	SPA	8010	<0.5	—	<0.5	1.0	<0.5	0.6	23	13	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	1.4	<0.5	<0.5	26	13	<0.5	<0.5	ND[29]
	4/19/95	**SPA**	**8010**	**<0.5**	**—**	**<0.5**	**0.9**	**<0.5**	**1.1**	**21**	**12**	**1.2**	**<0.5**	**ND[18]**
MW-18	3/21/90	GTEL	8010	<0.2	1.7	—	—	<0.5	2.4	33	20	0.9	<1.0	—
	6/19/90	GTEL	8010	<0.2	2.7	—	—	<0.5	0.9	63	20	0.73	<1.0	—
	9/20/90	GTEL	8010	<0.2	3.3	—	—	<0.5	1.6	76	25	1.7	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.8	44	21	1.0	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.7	47	20	2.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.7	32	25	1.0	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	3.6	<0.5	0.5	60	18	1.5	<1.0	ND
	1/29/92	SPA	8010	<5.0	—	<5.0	<5.0	<5.0	<5.0	67	17	<5.0	<10	ND
	3/26/92	SPA	8010	<1.2	—	<1.2	6.4	<1.2	<1.2	130	19	1.7	<2.5	ND

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<--------				ppb						-------->
MW-18	7/23/92	SPA	8010	<0.5	—	<0.5	3.0	<0.5	0.5	67	19	0.8	<0.5	ND[18]
(cont)	10/28/92	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	52	14	0.8	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	1.9	<0.5	0.7	48	18	2.5	<1.0	ND[26]
	1/5/94	SPA	8010	<0.5	—	<0.5	4.0	<0.5	0.8	94	17	1.0	<1.0	ND[18]
	5/13/94	SPA	8010	<0.5	—	<0.5	0.8	<0.5	0.8	16	15	0.8	<0.5	ND[29]
	10/27/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	22	15	1.2	<0.5	ND[29]
	4/19/95	SPA	8010	<0.5	—	<0.5	2.2	<0.5	1.3	46	14	1.1	<0.5	ND[35]
MW-19	3/21/90	GTEL	8010	<0.2	10	—	—	<0.5	2.5	41	53	3.2	<1.0	—
	6/19/90	GTEL	8010	<0.2	13	—	—	<0.5	1.5	46	47	2.8	<1.0	—
	9/20/90	GTEL	8010	<0.2	5.8	—	—	<0.5	2.5	39	32	3.1	<1.0	—
	12/28/90	SAL	8010	<0.5	—	0.8	22	<0.5	1.0	40	44	3.0	<1.0	—
	5/10/91	SAL	8010	<0.5	—	2.0	12	<0.5	1.0	47	47	3.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	1.1	4.8	<0.5	1.1	41	35	2.8	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	1.9	29	<0.5	0.9	59	31	2.7	<1.0	ND
	1/29/92	SPA	8010	<5.0	—	<5.0	8.9	<5.0	<5.0	51	44	3.0	<10	ND
	3/26/92	SPA	8010	<1.2	—	1.7	23	<1.2	1.5	68	130	1.4	<2.5	ND[17]
	7/23/92	SPA	8010	1.1	—	1.4	5.6	<0.5	1.0	61	38	3.3	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	0.9	5.3	<0.5	1.1	46	24	2.2	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	2.5	8.7	0.5	1.1	69	32	3.9	<1.0	ND[18]
	1/5/94	SPA	8010	<0.5	—	1.7	1.7	<0.5	16	49	46	<0.5	<1.0	ND[18]
	5/13/94	SPA	8010	<0.5	—	1.8	22	<0.5	0.7	40	58	<0.5	<0.5	ND[29]
	10/24/94[33]	SPA	8010	<50	—	110	54	<50	<50	98	300	<50	<50	ND[32,33]
	4/19/95	SPA	8010	<0.5	—	<0.5	65	<0.5	<0.5	130	670	<0.5	<0.5	ND[18]
Trip Blank														
AA	4/14/89	CCAS	8010	<1.0	<0.5	—	—	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	<0.5	—	—	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	—
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/26/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[14]
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[15]
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<					ppb					>
TB-LB	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
(cont)	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND[18]
Bailer Blank														
BB	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[16]
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND[18]

Table 2. Analytic Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

EXPLANATION:

1,1-DCE = 1,1-Dichloroethene
1,2-DCE = 1,2-Dichloroethene
t-1,2-DCE = trans-1,2-Dichloroethene
c-1,2-DCE = cis-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
CF = Chloroform
VC = Vinyl Chloride
Other HVOCs = Other Halogenated Volatile Organic Compounds
ppb = Parts per billion
--- = Not analyzed/not applicable
ND = Not detected at detection limits of 0.5 to 1 ppb
D = Duplicate analysis

ANALYTIC METHOD:

8010 = EPA Method 8010 for Volatile Organic Compounds

ANALYTIC LABORATORIES:

CCAS = Coast to Coast Analytical Services of San Luis Obispo, California
GTEL = Groundwater Technologies Environmental Laboratory of Concord, California
SAL = Superior Analytical Laboratory of Martinez and San Francisco, California
SPA = Superior Precision Analytical, Inc. of Martinez and San Francisco, California

NOTES:

Analytic results prior to April 19, 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Sierra Environmental Services.

[1] 6 ppb 1,2-dichloropropane detected; other HVOCs not detected.
[2] 0.6 ppb 1,2-dichloroethane detected; other HVOCs not detected.
[3] 63 ppb chloromethane and 0.6 ppb methylene chloride detected; other HVOCs not detected; sample contained 1,250 ppb total dissolved solids.

NOTES: (continued)

[4] 0.9 ppb trans-1,3-dichloropropane detected; other HVOCs not detected; sample contained 810 ppb total dissolved solids.
[5] 0.9 ppb trichlorofluoromethane and 1 ppb trans-1,3-dichloropropane detected; other HVOCs not detected.
[6] 11 ppb trans-1,3-dichloropropane detected; other HVOCs not detected.
[7] Monitoring well was destroyed during excavation in 1989.
[8] 0.1 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
[9] Well MW-9 was not sampled after 5/10/91 because it could not be located. Previous analytic data were not available for inclusion in this report.
[10] 1.8 ppb 1,2-dichloroethane detected; other HVOCs not detected
[11] 3 ppb 1,1,2,2-tetrachloroethane detected; other HVOCs not detected.
[12] 0.9 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
[13] 0.5 ppb 1,2-dichloroethane detected; other HVOCs not detected.
[14] 3.1 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
[15] 0.9 ppb 1,2-dichloroethane detected; other HVOCs not detected.
[16] Trace concentrations of trihalomethane compounds detected in bailer blank.
[17] 1,1,2,2-Tetrachloroethane detected at 1.8 ppb; other HVOCs not detected at detection limits of 1.2 to 2.5 ppb.
[18] Other HVOCs not detected at detection limit of 0.5 ppb.
[19] Other HVOCs not detected at detection limits ranging from 0.8 to 1.7 ppb.
[20] Other HVOCs not detected at detection limits of 25 ppb.
[21] Other HVOCs not detected at detection limits of 50 ppb.
[22] Well MW-12 could not be located after building demolition.
[23] Well MW-8 was obstructed, therefore ground water samples could not be taken.
[24] Monitoring well obstructed due to on-site construction activities.
[25] Monitoring well abandoned on March 10, 1993 by Soils Expoloration Services of Benicia, California.
[26] Dichloromethane detected at 6.2 ppb; other HVOCs not detected at detection limits of 0.5 ppb.
[27] Well paved over as a result of on-site construction activities.
[28] Well obstructed.
[29] Other HVOCs not detected at detection limits of 0.5 to 1.0 ppb.
[30] Well was dry.
[31] Other HVOCs not detected at detection limits of 10 to 20 ppb.
[32] Other HVOCs not detected at detection limits of 50 to 100 ppb.
[33] Detection limits raised due to sample dilution.
[34] Chloromethane was detected at 2.4 ppb. Other HVOCs not detected at detection limits of 0.5 ppb.
[35] Chloromethane was detected at 0.6 ppb. Other HVOCs not detected at detection limits of 0.5 ppb.

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.

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5161.86

LOCATION Powell & Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-2

Well Condition Poor

Well Diameter 3" in.

Hydrocarbon Thickness 0.01 Black Oily ft.

Total Depth 2.87 ft.

Depth to Liquid- 2.51 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 0.36 x(VF) 0.38 = (Estimated Purge Volume) 0.14 0.4 gal.

Purging Equipment

Sampling Equipment W/L only.

Starting Time Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume

Well appears to be Filled in Total Depth only 2.87' other well ~ 8-20 Feet Deep While monitoring discovered Floating Product (Black & Oily) ≈ 0.01' thick. Attempt made to Bail well dewater in 2 Bailers No water came back in. No plug in well only a cap Casing appear shifted ≈ 3' down.

Did well dewater? If yes, time Volume

Sampling Time Weather Conditions

Analysis Bottles Used

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5161.80

LOCATION Powell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-7 Well Condition —

Well Diameter 3" in. Hydrocarbon Thickness — ft.

Total Depth 13.95 ft.

Depth to Liquid- 9.53 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 9.42 x(VF) 0.38 = (Estimated Purge Volume) 3.6 10.7 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time 11:13 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
11:15	7.16	687	62.8	4
11:17	7.37	688	63.1	8
11:19	7.36	694	62.6	12
1300	7.40	690	62.8	12.5

Did well dewater? Yes If yes, time 11:17 Volume 8

Sampling Time 13:00 Weather Conditions Sunny clear

Analysis Gas BTXE 8010 Bottles Used 6 x 40ml VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron #10010167 JOB # 5161

LOCATION Powell @ Landgren DATE 4-19-95

CITY Berryville CA TIME

Well ID. MW-8

Well Condition

Well Diameter 4" in.

Hydrocarbon Thickness ft.

Total Depth ft.

Depth to Liquid- ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) ____ x ____ x(VF) ____ = (Estimated Purge Volume) ____ gal.

Purging Equipment

Sampling Equipment

Starting Time Purging Flow Rate gpm.

(Estimated Purge Volume) ____ gal. / (Purging Flow Rate) ____ gpm. = (Anticipated Purging Time) ____ min.

Time	pH	Conductivity	Temperature	Volume
Unable to locate, area where well should be is covered by ~~a~~ a temporary construction storage unit				

Did well dewater? If yes, time Volume

Sampling Time Weather Conditions

Analysis Bottles Used

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5161.80

LOCATION Powell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-10 Well Condition Okay

Well Diameter 4" in. Hydrocarbon Thickness — ft.

Total Depth 20.32 ft.

Depth to Liquid- 5.26 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 15.06 x(VF) 0.66 = (Estimated Purge Volume) 9.9 29.8 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time 10:38 Purging Flow Rate 3.3 gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
10:41	7.28	581	58.8	9.9
10:44	7.06	621	59.5	19.8
10:47	7.10	623	59.6	29.8
10:52	7.09	623	59.5	30.0

Did well dewater? No If yes, time Volume

Sampling Time 10:52 Weather Conditions Sunny clear

Analysis Gas BTXE 8010 Bottles Used 6 y 40ml VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5141.80

LOCATION Powell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-11 Well Condition Okay

Well Diameter 4" in. Hydrocarbon Thickness — ft.

Total Depth 18' ft.

Depth to Liquid- 5.69 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 12.31 x(VF) 0.66 = (Estimated Purge Volume) 8.12 24.36 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time 10:53 Purging Flow Rate 1.8 gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
10:56	7.13	641	61.0	8.4
10:59	7.33	631	62.2	16.8
11:02	7.39	638	62.4	25.2
11:07	7.35	635	62.3	26

Did well dewater? No If yes, time Volume

Sampling Time 11:07 Weather Conditions Sunny, clear

Analysis Gas BTXE 8010 Bottles Used 6 x 40ml VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5161.80

LOCATION Powell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-13 Well Condition Okay

Well Diameter 3" in. Hydrocarbon Thickness ft.

Total Depth 15.35 ft.

Depth to Liquid- 5.37 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 9.98 x(VF) 0.38 = (Estimated Purge Volume) 3.8 11.4 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
10:04	7.00	1153	62.8	4
10:06	7.22	1152	64.1	8
10:08	7.24	1150	63.1	12
10:13	7.23	1151	63.2	13

Did well dewater? No If yes, time Volume

Sampling Time 10:13 Weather Conditions Sunny clear

Analysis Gas BTXB 8010 Bottles Used 6 x 40ml VOA

Chain of Custody Number

COMMENTS

SORTMAN

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5161.80

LOCATION Powell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-15 Well Condition okay

Well Diameter 4" in. Hydrocarbon Thickness — ft.

Total Depth 7.23 ft.

Depth to Liquid- 4.77 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 2.46 x(VF) 0.66 = (Estimated Purge Volume) 1.6 4.8 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time 10:21 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
10:22	8.16	215	61.5	2
10:23	7.97	217	62.2	4
10:24	7.96	216	62.3	6
10:29	7.95	216	62.3	6.5

Did well dewater? N/O If yes, time Volume

Sampling Time 10:29 Weather Conditions Sunny clear

Analysis Gas BTXE 8010 Bottles Used 6 x 40ml VOA

Chain of Custody Number

COMMENTS

FOREMAN

ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5161.80

LOCATION Bowell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-17 Well Condition Okay

Well Diameter 2" in. Hydrocarbon Thickness — ft.

Total Depth 11.82 ft.

Depth to Liquid- 6.48 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 6.34 x(VF) 0.17 = (Estimated Purge Volume) 1.1 3.3 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time — Purging Flow Rate — gpm.

(Estimated Purge Volume) — gal. / (Purging Flow Rate) — gpm. = (Anticipated Purging Time) — min.

Time	pH	Conductivity	Temperature	Volume
1132	7.20	432	61.2	1.5
1133	7.18	405	61.5	3.0
1134	7.10	400	61.3	4.5
11:39	7.15	395	61.4	5.0

Did well dewater? No If yes, time Volume

Sampling Time 11:39 Weather Conditions Sunny clear

Analysis Gas BTXB 8010 Bottles Used 6 x 40ml VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5161.80

LOCATION Powell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-18 Well Condition —

Well Diameter 2" in. Hydrocarbon Thickness — ft.

Total Depth 10.18 ft.

Depth to Liquid- 5.10 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 5.68 x(VF) 0.17 = (Estimated Purge Volume) 0962.90 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
1146	6.58	399	60.2	1
1147	6.44	402	60.3	2
1148	6.30	404	60.4	3
1153	6.32	403	60.6	3.5

Did well dewater? No If yes, time Volume

Sampling Time 11:~~53~~ 53 Weather Conditions Sunny clear

Analysis Gas BTXB 8010 Bottles Used 6 x 40ml VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron # 1001067 JOB # 5141.80

LOCATION Powell @ Landgren DATE 4-19-95

CITY Emeryville CA TIME

Well ID. MW-19 Well Condition okay

Well Diameter 2" in. Hydrocarbon Thickness — ft.

Total Depth 8.68 ft.

Depth to Liquid- 4.20 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 4.48 x(VF) 0.17 = (Estimated Purge Volume) 0.76 2.3 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time _____ Purging Flow Rate _____ gpm.

(Estimated Purge Volume) _____ gal. / (Purging Flow Rate) _____ gpm. = (Anticipated Purging Time) _____ min.

Time	pH	Conductivity	Temperature	Volume
12:03	6.94	355	61.2	1
12:04	7.08	336	61.0	2
12:05	7.09	325	61.2	3
12:10	7.10	330	61.2	3.5

Did well dewater? N/C If yes, time _____ Volume _____

Sampling Time 12:15 Weather Conditions Sunny clear

Analysis Gas BTXB 8010 Bottles Used 6 V 40ml VOA

Chain of Custody Number _____

COMMENTS _____

FOREMAN _____ ASSISTANT

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 8127?

Chain-of-Custody-Record

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

Chevron Facility Number: 10010G7
Facility Address: Powell & Landgren Emeryville
Consultant Project Number: 516680
Consultant Name: Gettler-Ryan
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name): Argy Leyton
(Phone): 510 551-7555 (Fax Number): 510 551-7888

Chevron Contact (Name): Lucia Chow
(Phone): 842-9655
Laboratory Name: Superior
Laboratory Release Number: 8734331
Samples Collected by (Name): Frank Cline
Collection Date: 4-19-95
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)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					DO NOT BILL TB-LB ANALYSIS Remarks
								Analyses To Be Performed												
TB-LB		2	W	TB	—	HCL	Y	X			X									Analyze
MW-7		6		G	1300	HCL		X			X									
MW-13					1013			X			X									
MW-15					1029			X			X									
MW-10					1052			X			X									
MW-11					1107			X			X									
MW-17					1139			X			X									
MW-18					1153			X			X									
MW-19					1210			X			X									

Received at Lab: Yes 3.0°C

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	C&R	4:00 4-19-95		C&R	4:00 4-19-95
	C&R	9:05 4/20/95		AERO	9:05 4-19-95
	AERO	0:07 4-20-95			

Received For Laboratory By (Signature): 4/20/95 10:10

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

4/20/95

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
6747 SIERRA CT, SUITE G
DUBLIN, CA 94568

Date: May 4, 1995

Attn: ARGY LEYTON

Laboratory Number : 81273

Project Number/Name : 5161.80

This report has been reviewed and

approved for release.

Cecilia G. Joaquin 5/4/95
Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5161.80
Reported on May 4, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 81273

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
TB-LB	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	01
MW-7	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	02
MW-13	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	03
MW-15	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	04
MW-10	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	05
MW-11	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	06
MW-17	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	07
MW-18	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	08
MW-19	04/19/95	04/20/95	04/24/95	04/24/95	BD241.05	09

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BD241.05-01	Method Blank	MB		Water	04/24/95	04/24/95
BD241.05-02	C-2B	MS	81251-04	Water	04/24/95	04/24/95
BD241.05-03	C-2B	MSD	81251-04	Water	04/24/95	04/24/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5161.80
Reported on May 4, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
81273-01	TB-LB	Water	1.0	-
81273-02	MW-7	Water	1.0	-
81273-03	MW-13	Water	1.0	-
81273-04	MW-15	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	81273-01 Conc. ug/L	RL	81273-02 Conc. ug/L	RL	81273-03 Conc. ug/L	RL	81273-04 Conc. ug/L	RL
Gasoline_Range	ND	50	ND	50	140*	50	ND	50
Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5	1.2	0.5	ND	0.5
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	102		99		110		101	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5161.80
Reported on May 4, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
81273-05	MW-10	Water	1.0	-
81273-06	MW-11	Water	1.0	-
81273-07	MW-17	Water	1.0	-
81273-08	MW-18	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	81273-05 Conc. ug/L	RL	81273-06 Conc. ug/L	RL	81273-07 Conc. ug/L	RL	81273-08 Conc. ug/L	RL
Gasoline_Range	ND	50	58*	50	ND	50	ND	50
Benzene	ND	0.5	0.6	0.5	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	0.5	0.5	ND	0.5	ND	0.5
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	102		104		98		90	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5161.80
Reported on May 4, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
81273-09	MW-19	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	81273-09 Conc. ug/L	RL
Gasoline_Range	270*	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	101	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 81273
Method Blank(s)

	BD241.05-01 Conc. ug/L	 RL
Gasoline_Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	101	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 81273

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) BD241.05 02 / 03 - Sample Spiked: 81251 - 04						
Gasoline_Range	ND	357	347/322	97/90	65-135	7
Benzene	ND	20	24/23	120/115	65-135	4
Toluene	ND	20	25/23	125/115	65-135	8
Ethyl Benzene	ND	20	24/21	120/105	65-135	13
Total Xylenes	ND	60	71/62	118/103	65-135	14
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				105/103	50-150	

* - Hydrocarbons were found in the range of gasoline, but do not resemble a gasoline fingerprint.

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5161.80
Reported on May 4, 1995

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 81273

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-7	04/19/95	04/20/95	04/24/95	04/24/95	BD241.08	02
MW-13	04/19/95	04/20/95	04/24/95	04/24/95	BD241.08	03
MW-15	04/19/95	04/20/95	04/25/95	04/25/95	BD241.08	04
MW-10	04/19/95	04/20/95	04/25/95	04/25/95	BD241.08	05
MW-11	04/19/95	04/20/95	04/25/95	04/25/95	BD241.08	06
MW-17	04/19/95	04/20/95	04/25/95	04/25/95	BD241.08	07
MW-18	04/19/95	04/20/95	04/25/95	04/25/95	BD251.08	08
MW-19	04/19/95	04/20/95	04/27/95	04/27/95	BD271.08	09

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BD241.08-01	Method Blank	MB		Water	04/24/95	04/24/95
BD241.08-02	Laboratory Spike	LS		Water	04/24/95	04/24/95
BD251.08-01	Method Blank	MB		Water	04/25/95	04/25/95
BD251.08-02	Laboratory Spike	LS		Water	04/25/95	04/25/95
BD251.08-03	MW-7	MS	81273-02	Water	04/25/95	04/25/95
BD251.08-04	MW-7	MSD	81273-02	Water	04/25/95	04/25/95
BD271.08-01	Method Blank	MB		Water	04/27/95	04/27/95
BD271.08-02	Laboratory Spike	LS		Water	04/27/95	04/27/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5161.80
Reported on May 4, 1995

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
81273-02	MW-7	Water	1.0	-
81273-03	MW-13	Water	1.0	-
81273-04	MW-15	Water	1.0	-
81273-05	MW-10	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	81273-02 Conc. ug/L	RL	81273-03 Conc. ug/L	RL	81273-04 Conc. ug/L	RL	81273-05 Conc. ug/L	RL
Chloromethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Vinyl Chloride	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Bromomethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chloroethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Trichlorofluoromethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,1-Dichloroethene	ND	0.5	ND	0.5	ND	0.5	0.7	0.5
Dichloromethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
t-1,2-Dichloroethene	ND	0.5	ND	0.5	ND	0.5	14	0.5
1,1-Dichloroethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
c-1,2-Dichloroethene	ND	0.5	ND	0.5	ND	0.5	36	0.5
Chloroform	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,1,1-Trichloroethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Carbon tetrachloride	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Trichloroethene	ND	0.5	ND	0.5	ND	0.5	9.2	0.5
c-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloropropane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
t-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Bromodichloromethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,1,2-Trichloroethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Tetrachloroethene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Dibromochloromethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Bromoform	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,3-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,2-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,4-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
>> Surrogate Recoveries (%) <<								
4-Bromofluorobenzene	89		94		91		92	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5161.80
Reported on May 4, 1995

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
81273-06	MW-11	Water	1.0	-
81273-07	MW-17	Water	1.0	-
81273-08	MW-18	Water	1.0	-
81273-09	MW-19	Water	20.0	-

R E S U L T S O F A N A L Y S I S

Compound	81273-06 Conc. ug/L	RL	81273-07 Conc. ug/L	RL	81273-08 Conc. ug/L	RL	81273-09 Conc. ug/L	RL
Chloromethane	2.4	0.5	ND	0.5	0.6	0.5	ND	10
Vinyl Chloride	ND	0.5	ND	0.5	ND	0.5	ND	10
Bromomethane	ND	0.5	ND	0.5	ND	0.5	ND	10
Chloroethane	ND	0.5	ND	0.5	ND	0.5	ND	10
Trichlorofluoromethane	ND	0.5	ND	0.5	ND	0.5	ND	10
1,1-Dichloroethene	ND	0.5	ND	0.5	ND	0.5	ND	10
Dichloromethane	ND	0.5	ND	0.5	ND	0.5	ND	10
t-1,2-Dichloroethene	18	0.5	ND	0.5	ND	0.5	ND	10
1,1-Dichloroethane	ND	0.5	ND	0.5	ND	0.5	ND	10
c-1,2-Dichloroethene	39	0.5	0.9	0.5	2.2	0.5	65	10
Chloroform	1.0	0.5	1.2	0.5	1.1	0.5	ND	10
1,1,1-Trichloroethane	ND	0.5	1.1	0.5	1.3	0.5	ND	10
Carbon tetrachloride	ND	0.5	ND	0.5	ND	0.5	ND	10
1,2-Dichloroethane	ND	0.5	ND	0.5	ND	0.5	ND	10
Trichloroethene	6.5	0.5	21	0.5	46	0.5	130	10
c-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5	ND	10
1,2-Dichloropropane	ND	0.5	ND	0.5	ND	0.5	ND	10
t-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5	ND	10
Bromodichloromethane	ND	0.5	ND	0.5	ND	0.5	ND	10
1,1,2-Trichloroethane	ND	0.5	ND	0.5	ND	0.5	ND	10
Tetrachloroethene	ND	0.5	12	0.5	14	0.5	670	10
Dibromochloromethane	ND	0.5	ND	0.5	ND	0.5	ND	10
Chlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	10
Bromoform	ND	0.5	ND	0.5	ND	0.5	ND	10
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5	ND	0.5	ND	10
1,3-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	10
1,2-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	10
1,4-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5	ND	10
>> Surrogate Recoveries (%) <<								
4-Bromofluorobenzene	98		97		90		88	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 81273
Method Blank(s)

	BD241.08-01		BD251.08-01		BD271.08-01	
	Conc. ug/L	RL	Conc. ug/L	RL	Conc. ug/L	RL
Chloromethane	ND	0.5	ND	0.5	ND	0.5
Vinyl Chloride	ND	0.5	ND	0.5	ND	0.5
Bromomethane	ND	0.5	ND	0.5	ND	0.5
Chloroethane	ND	0.5	ND	0.5	ND	0.5
Trichlorofluoromethane	ND	0.5	ND	0.5	ND	0.5
1,1-Dichloroethene	ND	0.5	ND	0.5	ND	0.5
Dichloromethane	ND	0.5	ND	0.5	ND	0.5
t-1,2-Dichloroethene	ND	0.5	ND	0.5	ND	0.5
1,1-Dichloroethane	ND	0.5	ND	0.5	ND	0.5
c-1,2-Dichloroethene	ND	0.5	ND	0.5	ND	0.5
Chloroform	ND	0.5	ND	0.5	ND	0.5
1,1,1-Trichloroethane	ND	0.5	ND	0.5	ND	0.5
Carbon tetrachloride	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ND	0.5	ND	0.5	ND	0.5
Trichloroethene	ND	0.5	ND	0.5	ND	0.5
c-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloropropane	ND	0.5	ND	0.5	ND	0.5
t-1,3-Dichloropropene	ND	0.5	ND	0.5	ND	0.5
Bromodichloromethane	ND	0.5	ND	0.5	ND	0.5
1,1,2-Trichloroethane	ND	0.5	0.7	0.5	ND	0.5
Tetrachloroethene	ND	0.5	ND	0.5	ND	0.5
Dibromochloromethane	ND	0.5	ND	0.5	ND	0.5
Chlorobenzene	ND	0.5	ND	0.5	ND	0.5
Bromoform	ND	0.5	ND	0.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5	ND	0.5
1,3-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5
1,2-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5
1,4-Dichlorobenzene	ND	0.5	ND	0.5	ND	0.5
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene	93		80		70	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 762-2992 / fax (206) 762-8429

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 81273

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
BD241.08 02 / - Laboratory Control Spikes						
1,1-Dichloroethene		20	26	130	50-189	
Trichloroethene		20	21	105	53-161	
Chlorobenzene		20	19	95	57-171	
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				100	50-125	
For Water Matrix (ug/L)						
BD251.08 02 / - Laboratory Control Spikes						
1,1-Dichloroethene		20	24	120	50-189	
Trichloroethene		20	21	105	53-161	
Chlorobenzene		20	19	95	57-171	
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				89	50-125	
For Water Matrix (ug/L)						
BD271.08 02 / - Laboratory Control Spikes						
1,1-Dichloroethene		20	24	120	50-189	
Trichloroethene		20	24	120	53-161	
Chlorobenzene		20	24	120	57-171	
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				70	50-125	
For Water Matrix (ug/L)						
BD251.08 03 / 04 - Sample Spiked: 81273 - 02						
1,1-Dichloroethene	ND	20	22/25	110/125	50-189	13
Trichloroethene	ND	20	19/22	95/110	53-161	15
Chlorobenzene	ND	20	19/21	95/105	57-171	10

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-9429

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 81273

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				76/67	50-125	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-9429