



February 11, 1994

Lucia Chou
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Chevron Asphalt Plant and
Terminal #1001067
1520 Powell Street
Emeryville, California
SES Project #1-191-04

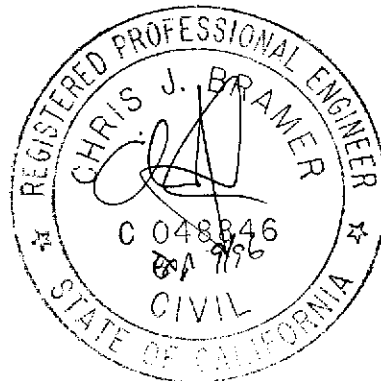
Dear Ms. Chou:

This report presents the results of the semi-annual water sampling at former Chevron Asphalt Plant and Terminal #1001067, located at 1520 Powell Street in Emeryville, California. Ground water samples from four wells, MW-10 and MW-17 through MW-19, were collected (Figure 1).

On January 5, 1994, SES personnel visited the site. Water level measurements were collected in all site wells and all wells were checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not present in any of the site wells checked. Water level data is shown in Table 1 and ground water elevation contours are included on Figure 1.

The water samples were collected on January 5, 1994 in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). All analyses were performed by Superior Precision Analytical, Inc. of Martinez, California. Analytic results for ground water are presented in Tables 2 and 3. Chain of custody documents and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.



Sincerely,
Sierra Environmental Services


Argy Mena
Staff Geologist


Chris J. Bramer
Professional Engineer #C48846

AJM/CJB/gb
19104QM.FE4

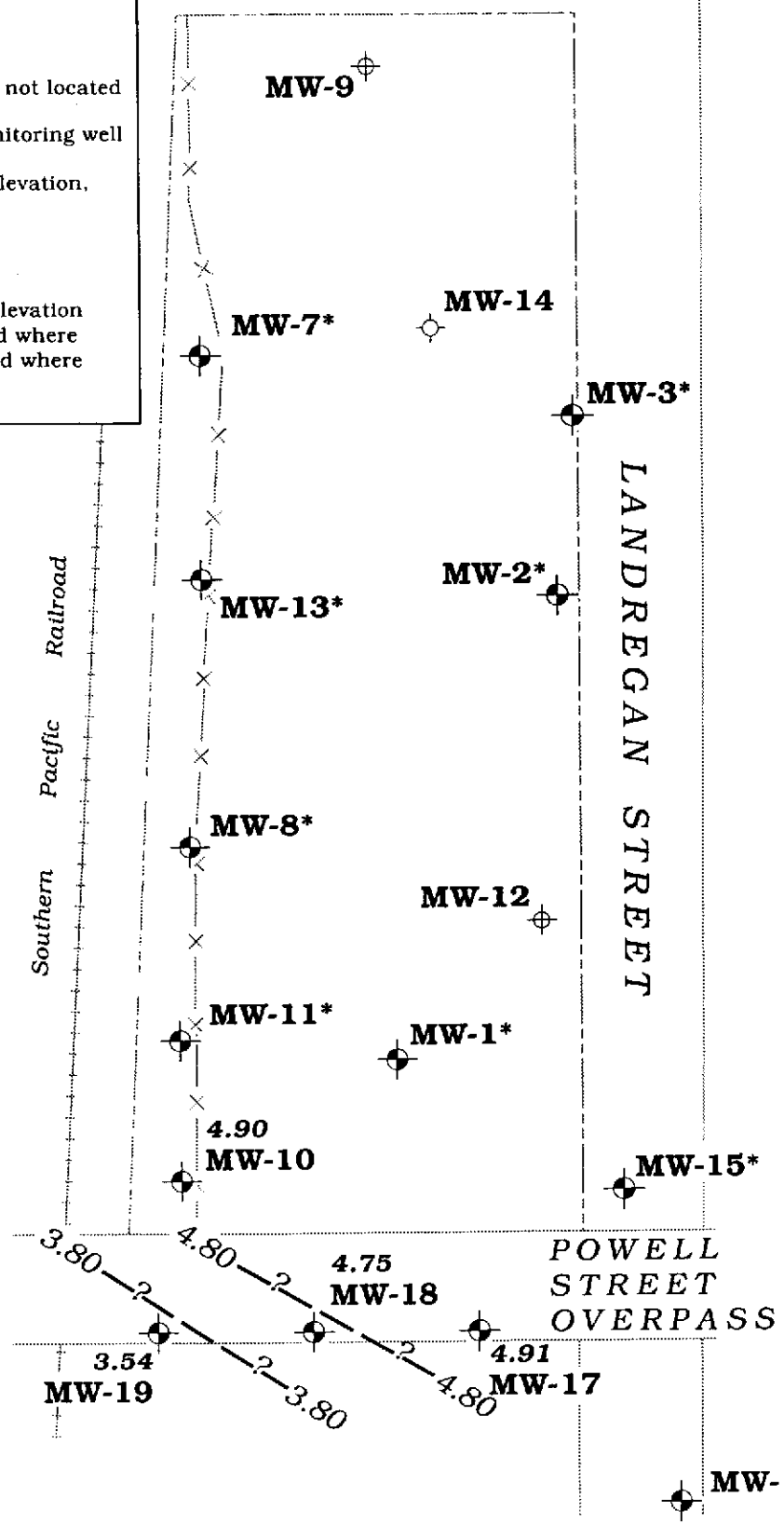
Attachments: Figure
Tables
SES Standard Operating Procedure
Chain of Custody Documents and Laboratory Analytic Reports



EXPLANATION

- MW-19** Monitoring well
- MW-12** Monitoring well not located
- MW-14** Abandoned monitoring well
- 4.91** Ground water elevation, in feet
- *** Not measured
- 4.80** Ground water elevation contour, dashed where inferred, queried where uncertain

Approximate ground water flow direction



N

0 90 ft.

Scale Approximate

Base map after Western Geologic Resources, Inc.

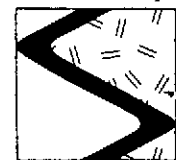
Figure 1. Monitoring Well Locations and Ground Water Elevation Contours - January 5, 1994 - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California



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Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

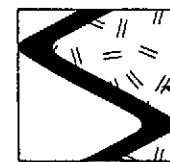
Well ID	Date Measured	DTW (ft)	TOC ¹ (ft)	GWE (msl)	Product Thickness ² (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
MW-1	4/13/89	3.72	10.67	6.95	---	1.5 - 11.5	1 - 12	0 - 1
	7/31/89	5.72		4.95	---			
	12/8/89	4.80		5.87	---			
	3/21/90	4.74		5.93	---			
	6/19/90	4.75		5.92	---			
	9/20/90	5.07		5.60	---			
	12/28/90	4.91		5.76	---			
	5/10/91	5.30		5.37	0			
	8/8/91	5.85		4.82	0			
	11/27/91	5.13		5.54	0			
	1/29/92	4.82		5.85	0			
	3/26/92	4.32		6.35	0			
	7/23/92	5.42		5.25	0			
	10/28/92	5.56		5.11	0			
	5/4/93	6.30		4.37	0			
	1/5/94 ¹⁰	---	---	---	---			
MW-2	4/13/89	2.62	13.78	11.16	---	2 - 12	1 - 12	0 - 1
	7/31/89	4.63		9.15	---			
	12/8/89	5.98		7.80	---			
	3/21/90	5.85		7.93	---			
	6/19/90	5.95		7.83	---			
	9/20/90	6.86		6.92	---			
	12/28/90	6.34		7.44	---			
	5/10/91	5.96		7.82	0			
	8/8/91	7.66		6.12	0			
	11/27/91	8.04		5.74	0			
	1/29/92	6.01		7.77	0			
	3/26/92	6.10		7.68	0			
	7/23/92	7.39		6.39	0			
	10/28/92	7.51		6.27	0			
	5/4/93 ⁸	---		---	---			
	1/5/94 ¹⁰	---	---	---	---			
MW-3	4/13/89	2.34	11.73	9.39	---	2 - 12	1 - 12	0 - 1
	7/31/89	4.79		6.94	---			
	12/8/89	3.03		8.70	---			
	3/21/90	2.55		9.18	---			
	6/19/90	2.76		8.97	---			
	9/20/90	4.43		7.30	---			
	12/28/90	3.67		8.06	---			



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Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

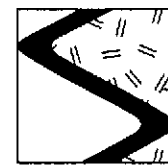
Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness ² (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval	-----feet below grade----->	
MW-3 (cont)	5/10/91	2.83		8.90	0					
	8/8/91	5.09		6.64	0					
	11/27/91	5.37		6.36	0					
	1/29/92	3.46		8.27	0					
	3/26/92	2.10		9.63	0					
	7/23/92	4.60		7.13	0					
	10/28/92	5.07		6.66	0					
	5/4/93 ⁸	---		---	---					
	1/5/94 ¹⁰	---		---	---					
	MW-4	4/13/89 ⁴	2.12	---	---	---	2 - 12	1 - 12	0 - 1	
MW-5	4/13/89 ⁴	2.79	---	---	---	2 - 12	1 - 12	0 - 1		
MW-6	4/13/89 ⁴	1.90	---	---	---	2 - 12	1 - 12	0 - 1		
MW-7	4/13/89	1.90	10.47	8.57	---	2 - 12	1 - 12	0 - 1		
	7/31/89	4.24		6.23	---					
	12/8/89	2.65		7.82	---					
	3/21/90	2.76		7.71	---					
	6/19/90	3.24		7.23	---					
	9/20/90	4.57		5.90	---					
	12/28/90	3.12		7.35	---					
	5/10/91	3.53		6.94	0					
	8/8/91	4.64		5.83	0					
	11/27/91	3.66		6.81	0					
	1/29/92	3.24		7.23	0					
	3/26/92	2.61		7.86	0					
	7/23/92	4.19		6.28	0					
	10/28/92	4.39		6.08	0					
5/4/93 ⁸	---		---	---						
1/5/94 ¹⁰	---		---	---						
MW-8	4/13/89	2.80	10.46	7.66	---	2 - 12	1 - 12	0 - 1		
	7/31/89	5.70		4.76	---					
	12/8/89	4.13		6.33	---					
	3/21/90	4.07		6.39	---					
	6/19/90	4.25		6.21	---					
	9/20/90	4.99		5.47	---					
	12/28/90	4.39		6.07	---					



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Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness ² (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval	-----feet below grade----->	
MW-8 (cont)	5/10/91	4.13		6.33	0					
	8/8/91	5.53		4.93	0					
	11/27/91	4.59		5.87	0					
	1/29/92	5.30		5.16	0					
	3/26/92	3.59		6.87	0					
	7/23/92	5.06		5.40	0					
	10/28/92 ⁷	---		---	---					
	5/4/93 ⁸	---		---	---					
1/5/94⁸	---		---	---						
MW-9	5/10/91 ⁵	---	---	---	---	2 - 12	1 - 12	0 - 1		
MW-10	3/21/90	4.60	10.82	6.22	---	---	---	---		
	6/19/90	4.89		5.93	---					
	9/20/90	5.77		5.05	---					
	12/28/90	4.99		5.83	---					
	5/10/91	5.80		5.02	0					
	8/8/91	5.86		4.96	0					
	11/27/91	5.39		5.43	0					
	1/29/92	5.44		5.38	0					
	3/26/92	4.96		5.86	0					
	7/23/92	5.80		5.02	0					
	10/28/92	6.06		4.76	0					
5/4/93 ⁸	---		---	---						
1/5/94	5.92		4.90	0						
MW-11	3/21/90	4.82	11.38	6.56	---	---	---	---		
	6/19/90	5.14		6.24	---					
	9/20/90	6.11		5.27	---					
	12/28/90	5.16		6.22	---					
	5/10/91	7.83		3.55	0					
	8/8/91	6.32		5.06	0					
	11/27/91	5.67		5.71	0					
	1/29/92	5.83		5.55	0					
	3/26/92	4.09		7.29	0					
	7/23/92	6.19		5.19	0					
	10/28/92	6.51		4.87	0					
	5/4/93 ⁸	---		---	---					
	1/5/94⁸	---		---	---					



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Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

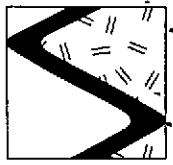
Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness ² (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
						-----feet below grade----->		
MW-12	3/21/90	6.76	13.03	6.27	---	---	---	---
	6/19/90	6.62		6.41	---	---	---	
	9/20/90	5.00		8.03	---	---	---	
	12/28/90	6.62		6.41	---	---	---	
	5/10/91	6.48		6.55	0	---	---	
	8/8/91	8.01		5.02	0	---	---	
	11/27/91	7.95		5.08	0	---	---	
	1/29/92	7.68		5.35	0	---	---	
	3/26/92	6.60		6.43	0	---	---	
7/23/92 ⁶	---	---	---	---	---	---		
MW-13	3/21/90	4.08	11.15	7.07	---	7.5 - 12	7 - 12	0 - 7
	6/19/90	4.34		6.81	---	---	---	
	9/20/90	5.31		5.84	---	---	---	
	12/28/90	4.79		6.36	---	---	---	
	5/10/91	4.20		6.95	0	---	---	
	8/8/91	5.13		6.02	0	---	---	
	11/27/91	4.72		6.43	0	---	---	
	1/29/92	4.69		6.46	0	---	---	
	3/26/92	4.04		7.11	0	---	---	
	7/23/92	5.12		6.03	0	---	---	
	10/28/92	5.30		5.85	0	---	---	
	5/4/93 ⁶	---		---	---	---	---	---
	1/5/94 ⁸	---		---	---	---	---	---
MW-14	3/21/90	0.91	9.78	8.87	---	5 - 10	6.5 - 10	0 - 6.5
	6/19/90	1.03		8.75	---	---	---	
	9/20/90	2.53		7.25	---	---	---	
	12/28/90	1.61		8.17	---	---	---	
	5/10/91	1.22		8.56	0	---	---	
	8/8/91	2.45		7.33	0	---	---	
	11/27/91	2.59		7.19	0	---	---	
	1/29/92	1.10		8.68	0	---	---	
	3/26/92	0.74		9.04	0	---	---	
	7/23/92	2.30		7.48	0	---	---	
	10/28/92	2.76		7.02	0	---	---	
5/4/93 ⁹	---	---	---	---	---	---		



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Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness ² (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
MW-15	3/21/90	4.72	11.01	6.29	---	5.5 - 10.5	5 - 10.5	0 - 5
	6/19/90	4.78		6.23	---			
	9/20/90	4.98		6.03	---			
	12/28/90	4.84		6.17	---			
	5/10/91	4.58		6.43	0			
	8/8/91	5.03		5.98	0			
	11/27/91	5.88		5.13	0			
	1/29/92	4.82		6.19	0			
	3/26/92	4.35		6.66	0			
	7/23/92	5.04		5.97	0			
	10/28/92	5.17		5.84	0			
	5/4/93 ⁸	---		---	---			
	1/5/94 ¹⁰	---		---	---			
MW-16	3/21/90	5.84	11.11	5.27	---	7 - 13.5	7 - 13.5	0 - 7
	6/19/90	5.90		5.21	---			
	9/20/90	6.36		4.75	---			
	12/28/90	5.98		5.13	---			
	5/10/91	5.89		5.22	0			
	8/8/91	6.28		4.83	0			
	11/27/91	5.62		5.49	0			
	1/29/92	5.88		5.23	0			
	3/26/92	5.56		5.55	0			
	7/23/92	6.29		4.82	0			
	10/28/92	6.29		4.82	0			
	5/4/93	5.75		5.36	0			
	1/5/94 ¹⁰	---		---	---			
MW-17	3/21/90	5.61	10.41	4.80	---	4 - 12	3.5 - 12	0 - 3.5
	6/19/90	---		---	---			
	9/20/90	6.02		4.39	---			
	12/28/90	5.73		4.68	---			
	5/10/91	5.65		4.76	0			
	8/8/91	5.94		4.47	0			
	11/27/91	6.00		4.41	0			
	1/29/92	5.61		4.80	0			
	3/26/92	5.31		5.10	0			
	7/23/92	5.97		4.44	0			
	10/28/92	5.96		4.45	0			
	5/4/93	7.53		2.88	0			
	1/5/94	5.50		4.91	0			



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Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness ² (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
MW-18	3/21/90	5.15	9.80	4.65	---	4 - 11	3.5 - 11	0 - 3.5
	6/19/90	5.19		4.61	---			
	9/20/90	5.54		4.26	---			
	12/28/90	5.26		4.54	---			
	5/10/91	5.18		4.62	0			
	8/8/91	5.45		4.35	0			
	11/27/91	5.24		4.56	0			
	1/29/92	5.12		4.68	0			
	3/26/92	4.84		4.96	0			
	7/23/92	5.49		4.31	0			
	10/28/92	5.47		4.33	0			
	5/4/93	5.07		4.73	0			
	1/5/94	5.05		4.75	0			
	MW-19	3/21/90		5.00	8.45			
6/19/90		5.06	3.39	---				
9/20/90		5.25	3.20	---				
12/28/90		5.07	3.38	---				
5/10/91		5.02	3.43	0				
8/8/91		5.17	3.28	0				
11/27/91		5.06	3.39	0				
1/29/92		4.93	3.52	0				
3/26/92		4.79	3.66	0				
7/23/92		5.22	3.23	0				
10/28/92		5.16	3.29	0				
5/4/93		4.93	3.52	0				
1/5/94		4.91	3.54	0				



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Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Ground water elevation
msl = Measurements referenced relative to mean sea level
--- = Not measured

NOTES:

- 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.

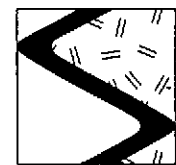
NOTES: (continued)

- ³ Well construction details for wells MW-10, MW-11 and MW-12 were 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 MW-8 was obstructed, therefore water level measurement could not be taken.
- 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.



Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

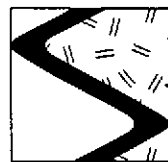
Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	-----ppb-----					O&G <-ppm->
					B	T	E	X		
MW-3	4/26/85	MES	---	---	<10	---	---	---	---	---
	9/11/87	SEQ	---	---	<0.5	---	---	---	---	---
	7/7/88	C&T	---	<100	<5.0	---	---	---	---	---
	4/14/89	CCAS	8260	<100	<0.2	<0.2	<0.2	<0.4	<3,000	---
	7/31/89	CCAS	8260	<100	<0.2	<1.0	<0.2	<0.4	---	---
	12/8/89	GTEL	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---	---
	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	---
	9/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/29/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/28/92	SPA	8015/8020	92	1.8	12	2.0	10	---	---
5/4/93 ^b	---	---	---	---	---	---	---	---	---	
1/5/94 ^b	---	---	---	---	---	---	---	---	---	
MW-4	4/26/85	MES	---	3,100	<10	---	---	---	---	---
	9/11/87	SEQ	---	---	<0.5	---	---	---	---	---
	7/7/88	C&T	---	<100	<5.0	---	---	---	---	---
	4/14/89 ¹	CCAS	8260	380 ²	<0.5	<1.0	<1.0	<1.0	<3,000	---
MW-5	4/26/85	MES	---	1,600	<100	---	---	---	---	---
	9/11/87	SEQ	---	---	<10	---	---	---	---	---
	7/7/88	C&T	---	<100	<5.0	---	---	---	---	---
	4/14/89 ¹	CCAS	8260	4,300 ²	<0.5	<1.0	<1.0	<1.0	<3,000	---
MW-6	4/26/85	MES	---	580	<100	---	---	---	---	---
	9/11/87	SEQ	---	---	<10	---	---	---	---	---
	7/7/88	C&T	---	8,000	<5.0	---	---	---	---	---
	4/14/89 ¹	CCAS	8260	3,300 ²	<0.5	<1.0	<1.0	<1.0	<3,000	---
MW-7	4/26/85	MES	---	700	ND	---	---	---	---	---
	9/11/87	SEQ	---	---	<10	---	---	---	---	---
	7/7/88	C&T	---	17,000	<5.0	---	---	---	---	---
	4/14/89	CCAS	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000	---
	7/31/89	CCAS	8260	160 ²	<0.1	<0.5	<0.1	<0.2	---	---
(D)	7/31/89	CCAS	8260	100 ²	<0.1	<0.5	<0.1	<0.2	---	---
	12/8/89	GTEL	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---	---



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Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

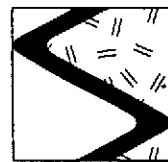
Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G) -----ppb-----					O&G <-ppm->
				B	T	E	X		
MW-7 (cont)	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	0.6	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	0.6	---
	9/21/90	GTEL	8015/8020	<50	1.5	<0.3	<0.3	0.6	---
	12/28/90	SAL	8015/8020	<50	0.7	<0.5	<0.5	0.7	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	0.9	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	0.9	---
	7/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/28/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93 ⁶	---	---	---	---	---	---	---	---
	1/5/94 ⁸	---	---	---	---	---	---	---	---
	MW-8	4/26/85	MES	---	---	ND	---	---	---
9/11/87		SEQ	---	---	<10	---	---	---	---
7/7/88		C&T	---	20,000	<5.0	---	---	---	---
4/14/89		CCAS	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
7/31/89		CCAS	8260	<50	<0.1	<0.5	<0.1	<0.2	---
12/8/89		GTEL	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---
3/21/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
6/19/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
9/21/90		GTEL	8015/8020	<50	6.0	<0.3	<0.3	<0.6	---
12/28/90		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
5/10/91		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
8/8/91		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
11/27/91		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
1/29/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
3/26/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	0.7	---
7/23/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
10/28/92 ⁷		---	---	---	---	---	---	---	---
5/4/93 ⁶	---	---	---	---	---	---	---	---	
1/5/94 ⁸	---	---	---	---	---	---	---	---	
MW-9	4/26/85	MES	---	---	---	---	---	---	---
	9/11/87	SEQ	---	---	---	---	---	---	---
	7/7/88	C&T	---	400	---	---	---	---	---
	5/10/91 ³	---	---	---	---	---	---	---	---
MW-10	7/7/88	C&T	---	---	<5.0	---	---	---	---
	4/14/89	CCAS	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	CCAS	8260	<50	<0.1	<0.5	<0.1	<0.2	---
	12/8/89	GTEL	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---



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Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

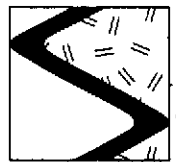
Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T			X	O&G <ppm>
						ppb				
MW-10 (cont)	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.6	---
	9/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	SPA	8015/8020	<50	<0.5	1.8	0.5	0.5	1.9	---
	10/28/92	SPA	8015/8020	<50	0.6	0.7	<0.5	<0.5	1.2	---
	5/4/93 ^b	---	---	---	---	---	---	---	---	---
	1/5/94	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	0.6	---
	MW-11	7/7/88	C&T	---	---	<5.0	---	---	---	---
4/14/89		CCAS	8260	<50	<0.5	<1.0	<1.0	<1.0	<1.0	<3,000
7/31/89		CCAS	8260	<100	<0.2	<0.2	<0.2	<0.2	<0.2	---
12/8/89		GTEL	8015/8020	---	<0.3	<0.3	<0.3	<0.3	<0.6	---
3/21/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.6	---
6/19/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.6	---
9/21/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.6	---
12/28/90		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
5/10/91		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
8/8/91		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
11/27/91		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
1/29/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
3/26/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
7/23/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
10/28/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	
5/4/93 ^b	---	---	---	---	---	---	---	---	---	
1/5/94 ^b	---	---	---	---	---	---	---	---	---	
MW-12	7/7/88	C&T	---	<100	<5.0	---	---	---	---	---
	4/14/89	CCAS	8260	<50	<0.5	<1.0	<1.0	<1.0	<1.0	<3,000
	7/31/89	CCAS	8260	<100	<0.1	<0.5	<0.1	<0.2	<0.2	---
	12/8/89	GTEL	8015/8020	---	<0.3	<0.3	<0.3	<0.3	<0.6	---
	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.3	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.3	---
	9/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	<0.3	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---



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Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

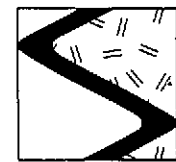
Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	O&G
				-----ppb-----					
MW-12 (cont)	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	1.0	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92 ^b	---	---	---	---	---	---	---	---
MW-13	3/21/90	GTEL	8015/8020	480	<0.3	<0.3	1.0	5.0	---
	6/19/90	GTEL	8015/8020	180	<0.3	<0.3	0.8	3.0	---
	9/20/90	GTEL	8015/8020	150	<0.3	<0.3	<0.3	0.54	---
	12/28/90	SAL	8015/8020	160	<0.5	<0.5	<0.5	1.0	---
	5/10/91	SAL	8015/8020	110	<0.5	<0.5	<0.5	2.0	---
	8/8/91	SAL	8015/8020	220 ⁴	<0.5	<0.5	<0.5	1.8	---
	11/27/91	SPA	8015/8020	70	<0.5	<0.5	<0.5	1.2	---
	1/29/92	SPA	8015/8020	150	<0.5	<0.5	3.1	7.1	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	SPA	8015/8020	190	<0.5	<0.5	<0.5	2.1	---
	10/28/92	SPA	8015/8020	190	<0.5	<0.5	<0.5	2.0	---
	5/4/93 ^b	---	---	---	---	---	---	---	---
	1/5/94 ^b	---	---	---	---	---	---	---	---
MW-14	3/21/90	GTEL	8015/8020	170	<0.3	<0.3	<0.4	2.0	---
	6/19/90	GTEL	8015/8020	77	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	SPA	8015/8020	<50	0.6	<0.5	<0.5	0.8	---
	10/28/92	SPA	8015/8020	56	0.7	4.0	0.8	3.8	---
	5/4/93 ^b	---	---	---	---	---	---	---	---
MW-15	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---



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Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

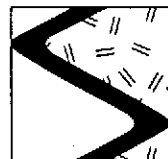
Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	O&G
				-----ppb-----					
MW-15 (cont)	1/29/92	SPA	8015/8020	<50	1.9	2.6	0.8	2.6	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	0.5	---
	10/28/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93 ^b	---	---	---	---	---	---	---	---
	1/5/94 ^a	---	---	---	---	---	---	---	---
MW-16	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	SPA	8015/8020	65	3.6	6.2	1.9	6.6	---
	3/26/92	SPA	8015/8020	270 ^b	21	27	9.5	41	---
	7/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	0.7	---
	10/28/92	SPA	8015/8020	<50	0.9	1.4	<0.5	1.1	---
	5/4/93	SPA	8015/8020	51	<0.5	1.0	0.6	1.7	---
	1/5/94 ^a	---	---	---	---	---	---	---	---
MW-17	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	0.8	---
	8/8/91	SAL	8015/8020	82	1.9	2.5	0.9	5.4	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	SPA	8015/8020	<50	<0.5	0.9	<0.5	0.5	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/28/92	SPA	8015/8020	78	1.0	7.1	1.4	6.5	---
	5/4/93	SPA	8015/8020	60	0.8	1.7	1.1	3.0	---
	1/5/94	SPA	8015/8020	<50	<0.5	0.7	<0.5	<0.5	---
MW-18	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	52	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	0.6	1.5	0.6	2.1	---



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Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

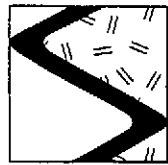
Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	O&G	
				-----ppb-----						<-ppm->
MW-18 (cont)	1/29/92	SPA	8015/8020	67	3.7	5.2	1.5	5.0	---	
	3/26/92	SPA	8015/8020	80 ⁵	<0.5	<0.5	<0.5	0.8	---	
	7/23/92	SPA	8015/8020	50 ⁵	1.3	2.1	0.5	3.0	---	
	10/28/92	SPA	8015/8020	54	<0.5	1.3	<0.5	1.1	---	
	5/4/93	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	
	1/5/94	SPA	8015/8020	<50	<0.5	0.5	<0.5	0.6	---	
MW-19	3/21/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	
	6/19/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	
	9/20/90	GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	
	12/28/90	SAL	8015/8020	66	<0.5	<0.5	<0.5	<0.5	---	
	5/10/91	SAL	8015/8020	60 ⁴	<0.5	<0.5	<0.5	<0.5	---	
	8/8/91	SAL	8015/8020	58	<0.5	<0.5	<0.5	<0.5	---	
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	1/29/92	SPA	8015/8020	<50	1.7	2.6	0.7	2.1	---	
	3/26/92	SPA	8015/8020	80 ⁵	<0.5	<0.5	<0.5	<0.5	---	
	7/23/92	SPA	8015/8020	70 ⁵	0.6	0.5	<0.5	1.5	---	
	10/28/92	SPA	8015/8020	170	4.3	28	5.1	24	---	
	5/4/93	SPA	8015/8020	120	2.0	4.7	2.8	8.1	---	
	1/5/94	SPA	8015/8020	<50	2.0	1.4	1.7	2.5	---	
	Trip Blank AA	4/14/89	CCAS	8260	<50	<0.5	<1.0	<1.0	<1.0	---
		7/31/89	CCAS	8260	<50	<0.1	<0.5	<0.5	<0.2	---
12/8/89		GTEL	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---	
3/21/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	
3/26/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	
6/19/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	
9/21/90		GTEL	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---	
12/28/90		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.6	---	
5/10/91		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
8/8/91		SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
11/27/91		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
1/29/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
3/26/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
TB-LB		7/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
		10/28/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	
	1/5/94	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	



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Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G) ←-----	B	T ppb	E	X	O&G ←-ppm->
Bailer Blank									
BB	5/10/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/28/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---
	1/5/94	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---



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Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

EXPLANATION:

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
--- = Not analyzed/Not applicable
(D) = Duplicate Analysis

ANALYTIC METHODS:

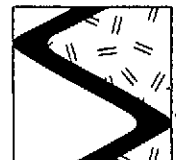
8260 = Approved Variance for Method EPA 8240 using capillary column and GC/MS for TPPH and BTEX
8015 = EPA Method 8015/5030 for TPPH(G)
8020 = EPA Method 8020 for BTEX

ANALYTIC LABORATORIES:

MES = McKesson Environmental Services
SEQ = Sequoia Analytical Laboratory
C&T = Curtis & Tompkins, Ltd.
CCAS = Coast to Coast Analytical Services of San Luis Obispo, California
GTEL = Groundwater Technology Environmental Laboratory of Concord, California
SAL = Superior Analytical Laboratory of Martinez and San Francisco, California
SPA = Superior Precision Analytical, Inc. of Martinez, California

NOTES:

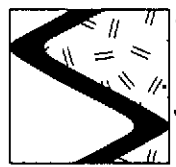
- ¹ Monitoring well was destroyed during soil excavation in 1989.
- ² TPH was reported as Diesel #2.
- ³ Well MW-9 was not sampled after 5/10/91 because it could not be located. Previous analytical data were not available for inclusion in this report.
- ⁴ Does not match a typical gasoline pattern.
- ⁵ Gasoline range concentration reported. The chromatogram shows only a single peak in the gasoline range. The pattern was not typical of gasoline.
- ⁶ Well MW-12 could not be located after building demolition.
- ⁷ Well MW-8 was obstructed, therefore ground water samples could not be taken.
- 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.



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Table 3. Analytic Results for Ground Water - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

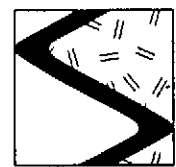
Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				←-----ppb-----→										
MW-1	4/14/89	CCAS	8010	<5.0	---	19	720	<5.0	<5.0	11	<5.0	<20	340	ND ¹
	7/31/89	CCAS	8010	6.8	---	54	2,600	2.7	7.2	57	<0.2	<1.0	760	ND ²
	12/8/89	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	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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	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	---	---	---	---	---	---	---	---	---	---	---	---	---	
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	---
	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	---



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Table 3. Analytic Results for Ground Water - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

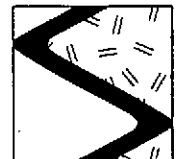
Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				←-----ppb-----→										
MW-3 (cont)	5/10/91	SAL	8010	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	---	---	---	---	---	---	---	---	---	---	---	---	---	
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 (D)	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
	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	---	---	---	---	---	---	---	---	---	---	---	---	---	
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	---



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Table 3. Analytic Results for Ground Water - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

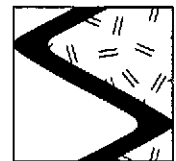
Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-	1,2-	t-1,2-	c-1,2-	1,1-	1,1,1-	TCE	PCE	CF	VC	Other HVOCs	
				DCE	DCE	DCE	DCE	DCA	TCA						
-----ppb-----															
MW-8 (cont)	12/28/90	SAL	8010	<0.5	---	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<1.0	---	
	5/10/91	SAL	8010	<0.5	---	<0.5	<0.5	<0.5	<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	<0.5	ND ¹⁸	
	10/28/92 ²³	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	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	
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 ²⁴	---	---	---	---	---	---	---	---	---	---	---	---	---		
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	



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Table 3. Analytic Results for Ground Water - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

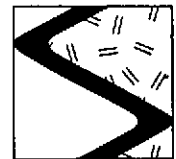
Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-	1,2-	t-1,2-	c-1,2-	1,1-	1,1,1-	TCE	PCE	CF	VC	Other HVOCs
				DCE	DCE	DCE	DCE	DCA	TCA					
-----ppb-----														
MW-11 (cont)	8/8/91	SAL	8010	<0.5	---	29	77	0.9	<0.5	2.4	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	---	34	240	<0.5	<0.5	<0.5	<0.5	<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	---	---	---	---	---	---	---	---	---	---	---	---	---
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
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		---	---	---	---	---	---	---	---	---	---	---	---	---
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	---



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Table 3. Analytic Results for Ground Water - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

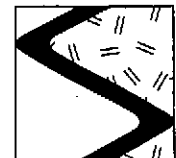
Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				←-----ppb-----→										
MW-14 (cont)	12/28/90	SAL	8010	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	---
	5/10/91	SAL	8010	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<1.0	ND
	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 ²⁵	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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	<1.0	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	---	---	---	---	---	---	---	---	---	---	---	---	---	
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	---	---	---	---	---	---	---	---	---	---	---	---	---
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	---



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Table 3. Analytic Results for Ground Water - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

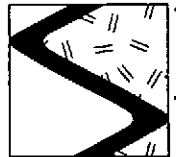
Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-	1,2-	t-1,2-	c-1,2-	1,1-	1,1,1-	TCE	PCE	CF	VC	Other HVOCs
				DCE	DCE	DCE	DCE	DCA	TCA					
-----ppb-----														
MW-17 (cont)	5/10/91	SAL	8010	<0.5	---	<0.5	3.0	<0.5	0.6	37	14	1.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	---	<0.5	2.5	<0.5	<0.5	69	15	0.9	<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 ¹⁸
	1/5/94	SPA	8010	<0.5	---	<0.5	1.1	<0.5	<0.5	25	13	0.8	<1.0	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
	7/23/92	SPA	8010	<0.5	---	<0.5	3.0	<0.5	0.5	67	19	0.8	<0.5	ND ¹⁸
	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
	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	1.6	49	46	<0.5	<1.0	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	---



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Table 3. Analytic Results for Ground Water - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California (continued)

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-----														
Trip Blank														
AA (cont)	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 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
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
	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



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Table 3. Analytic Results for Ground Water - 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:

Historic analytic data was compiled from the Quarterly Groundwater Sampling report prepared for this service station by Western Geologic Resources, February 8, 1991.

Selected HVOCs were reported by WGR; it is unknown whether other HVOCs were detected in the samples.

- 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 Exploration Services of Benicia, California.
- ²⁶ Dichloromethane detected at 6.2 ppb; other HVOCs not detected at detection limits of 0.5 ppb.



SES STANDARD OPERATING PROCEDURE GROUND WATER SAMPLING

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed $\pm 0.5^{\circ}\text{F}$, 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with steam-cleaned Teflon bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at 4°C) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank and bailer blank accompanies each sampling set, or 5% trip blanks and 5% bailer blanks are included for sets of greater than 20 samples. The bailer blank is prepared by pouring previously boiled water into a steam-cleaned Teflon bailer prior to sampling a well. The trip and bailer blanks are analyzed for some or all of the same compounds as the ground water samples.

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

30/87

Chain-of-Custody-Record

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

Chevron Facility Number: 1001067
 Facility Address: 1520 Powell ST., Emeryville
 Consultant Project Number: 1-191-04
 Consultant Name: SIERRA ENVIRONMENTAL SERVICES
 Address: PO BOX 2546, MARTINEZ, CA 94553
 Project Contact (Name): RICK HILTON/ED MORALES
 (Phone) 510-370-1280 (Fax Number) 510-370-7959

Chevron Contact (Name) MS. Lucia Chow
 (Phone) 842-9655
 Laboratory Name: Superior Precision Analytical
 Laboratory Release Number: 5334010
 Samples Collected by (Name): RICK HILTON
 Collection Date: 1/5/94
 Signature: [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)	Analytes To Be Performed												DO NOT BILL CHEVRON FOR TB-LB SAMPLES Remarks
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8020)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)					
TB-LB		3	W	G	1201	HCl	YES	X				X							Analyzes as	
BB		2			1225			X				X							Shovel	
MW-10		6			1228			X				X								
MW-17					1250			X				X								
MW-18					1315			X				X								
MW-19					1335			X				X								

DON'T ANALYZE TB-LB
 BB FOR 8010. RP
 1/5/94
 30
 0/10

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time <u>1/5/94</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>1/6/94</u>	



Superior Precision Analytical, Inc.

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

Sierra Environmental Services
Attn: Ed Morales

Project 1-191-04
Reported 14-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Chronology

Laboratory Number 30187

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
MW-10	10/05/93	01/06/94	01/10/94	01/10/94		3
MW-17	10/05/93	01/06/94	01/10/94	01/10/94		4
MW-18	10/05/93	01/06/94	01/10/94	01/10/94		5
MW-19	10/05/93	01/06/94	01/10/94	01/10/94		6



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Sierra Environmental Services
Attn: Ed Morales

Project 1-191-04
Reported 14-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
30187- 3	MW-10	Water
30187- 4	MW-17	Water
30187- 5	MW-18	Water
30187- 6	MW-19	Water

RESULTS OF ANALYSIS

Laboratory Number:	30187- 3	30187- 4	30187- 5	30187- 6
Chloromethane/Vinyl Ch:	ND<1.0	ND<1.0	ND<1.0	ND<1.0
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	ND<0.5
Dichloromethane:	ND<0.5	ND<0.5	ND<0.5	ND<0.5
t-1,2-Dichloroethene:	1.3	ND<0.5	ND<0.5	1.7
1,1-Dichloroethane:	0.5	ND<0.5	ND<0.5	ND<0.5
c-1,2-Dichloroethene:	5.2	1.1	4.0	1.7
Chloroform:	ND<0.5	0.8	1.0	ND<0.5
1,1,1-Trichloroethane:	1.0	ND<0.5	0.8	16
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:	0.8	25	94	49
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	13	17	46
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-Tetrachloroeth:	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
Concentration:	ug/L	ug/L	ug/L	ug/L



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

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.
Quality Assurance and Control Data - Water

Laboratory Number 30187

Compound	Method		Spike Recovery (%)	Limits (%)	RPD (%)
	Blank (ug/L)	RL (ug/L)			
Chloromethane/Vinyl Ch:	ND<1.0	1.0			
Bromomethane:	ND<0.5	0.5			
Chloroethane:	ND<0.5	0.5			
Trichlorofluoromethane:	ND<0.5	0.5			
1,1-Dichloroethene:	ND<0.5	0.5	100/97	70-143	3%
Dichloromethane:	ND<0.5	0.5			
t-1,2-Dichloroethene:	ND<0.5	0.5			
1,1-Dichloroethane:	ND<0.5	0.5			
c-1,2-Dichloroethene:	ND<0.5	0.5			
Chloroform:	ND<0.5	0.5			
1,1,1-Trichloroethane:	ND<0.5	0.5			
Carbon tetrachloride:	ND<0.5	0.5			
1,2-Dichloroethane:	ND<0.5	0.5			
Trichloroethene:	ND<0.5	0.5	119/94	79-132	23%
c-1,3-Dichloropropene:	ND<0.5	0.5			
1,2-Dichloropropane:	ND<0.5	0.5			
t-1,3-Dichloropropene:	ND<0.5	0.5			
Bromodichloromethane:	ND<0.5	0.5			
1,1,2-Trichloroethane:	ND<0.5	0.5			
Tetrachloroethene:	ND<0.5	0.5			
Dibromochloromethane:	ND<0.5	0.5			
Chlorobenzene:	ND<0.5	0.5	107/103	92-132	4%
Bromoform:	ND<0.5	0.5			
1,1,2,2-Tetrachloroeth:	ND<0.5	0.5			
1,3-Dichlorobenzene:	ND<0.5	0.5			
1,2-Dichlorobenzene:	ND<0.5	0.5			
1,4-Dichlorobenzene:	ND<0.5	0.5			

Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- ug/L = Parts per billion (ppb)
- QC File No. 30187

Michael R. Vavros
 Senior Chemist
 Account Manager



Superior Precision Analytical, Inc.

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

Sierra Environmental Services
Attn: Ed Morales

Project 1-191-04
Reported 01/14/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30187- 1	TB-LB	01/05/93	01/12/94 Water
30187- 2	BB	01/05/93	01/12/94 Water
30187- 3	MW-10	01/05/93	01/12/94 Water
30187- 4	MW-17	01/05/93	01/12/94 Water
30187- 5	MW-18	01/05/93	01/12/94 Water
30187- 6	MW-19	01/05/93	01/12/94 Water

RESULTS OF ANALYSIS

Laboratory Number: 30187- 1 30187- 2 30187- 3 30187- 4 30187- 5

Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	0.7	0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	ND<0.5	0.6	ND<0.5	0.6
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 30187- 6

Gasoline:	ND<50
Benzene:	2.0
Toluene:	1.4
Ethyl Benzene:	1.7
Total Xylenes:	2.5
Concentration:	ug/L



Superior Precision Analytical, Inc.

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

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

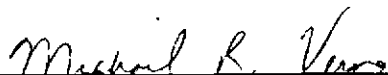
Page 2 of 2
QA/QC INFORMATION
SET: 30187

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/L = parts per billion (ppb)

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	97/93	4%	70-130
Benzene:	106/114	7%	70-130
Toluene:	100/104	4%	70-130
Ethyl Benzene:	95/98	3%	70-130
Total Xylenes:	105/109	4%	70-130


Senior Chemist