



STD 381

September 30, 1995

*see chromatogram for MWP, 5/9/10
in report*

Dennis Byrne
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Third Quarter 1995**
Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-0612-205

95 OCT 13 PM 2:39
ENVIRONMENTAL
PROFESSIONAL

Dear Mr. Byrne:

This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

SEPARATE-PHASE HYDROCARBON REMOVAL SUMMARY	
<i>Separate-Phase Hydrocarbons Removed This Past Quarter</i>	<i>Cumulative Pounds Removed</i>
0.0	18.99

Third Quarter 1995 Activities:

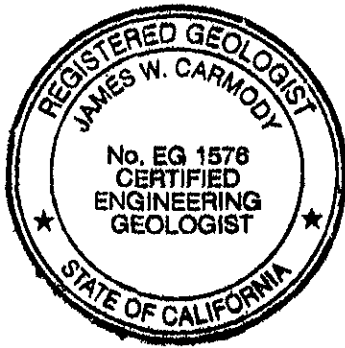
- Blaine Tech Services (BTS) of San Jose, California measured ground water depths and collected ground water samples from the monitoring wells on June 30, 1995 (Figures 1 and 2). BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- No separate-phase hydrocarbons (SPH) were removed this quarter (Table 1). To date, approximately 19 pounds of SPH have been removed by skimmers and additional bailing in the site wells.
- Weiss Associates (WA) tabulated the depth to water and analytic data (Tables 2 and 3) and contoured ground water elevations and plotted benzene concentrations in ground water (Figure 2).

Anticipated Fourth Quarter 1995 Activities:

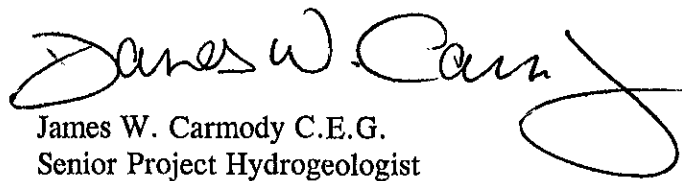
- WA will submit a report presenting the results of the fourth quarter 1995 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, SPH removal data and a ground water elevation contour map.
- SPH skimmers are installed in wells MW-2, MW-4 and MW-7. The skimmers will be purged of hydrocarbons quarterly until no SPH are measured in these wells. SPH volumes removed will be tabulated in subsequent quarterly status reports.

Please call if you have any questions.

Sincerely,
Weiss Associates




Grady S. Glasser
Technical Assistant


James W. Carmody C.E.G.
Senior Project Hydrogeologist

Attachments: A - BTS Ground Water Monitoring Report

cc: Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524

GSG/JWC:all
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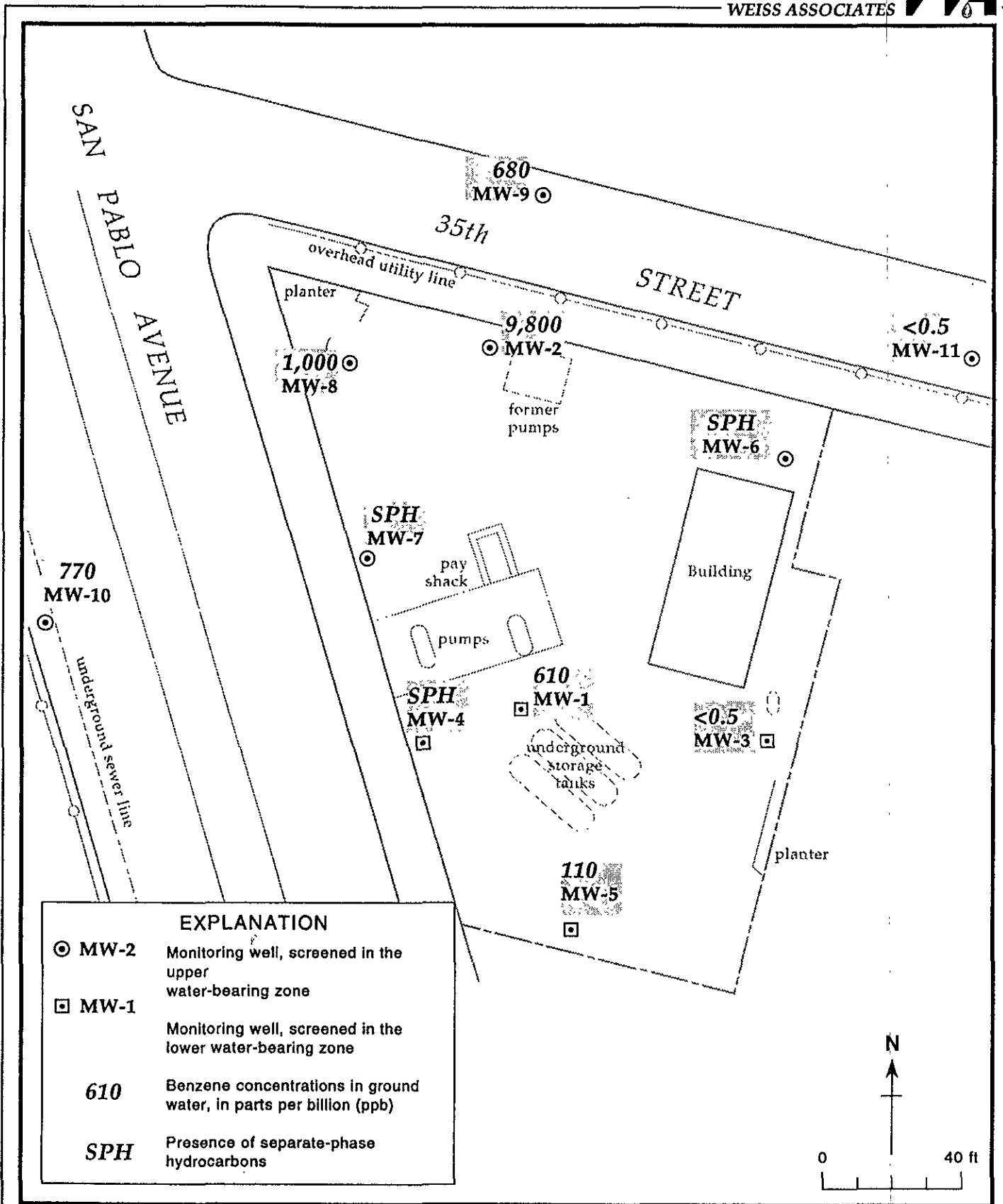


Figure 4. Benzene Concentrations in Ground Water, January 3, 1995 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

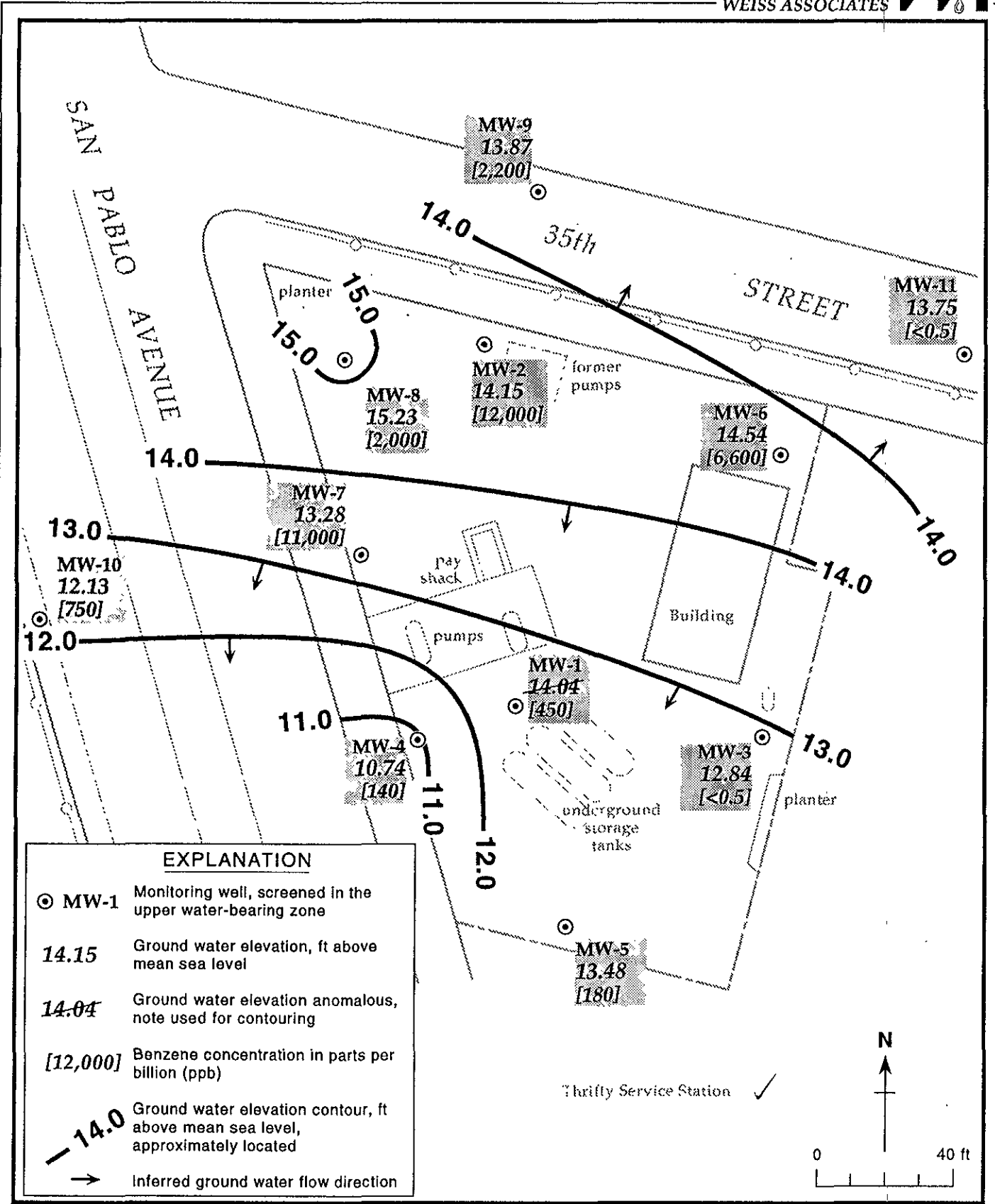


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentration in Ground Water - June 30, 1995 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Table 1. Separate-Phase Hydrocarbon Removal - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California

Well ID	Date	Separate-Phase Hydrocarbon Thickness (ft)	Separate-Phase Hydrocarbons Removed (lbs)	Cumulative Separate-Phase Hydrocarbons Removed (lbs)
MW-1	10/23/91	0.01	---	---
	05/04/92	<0.01	---	---
	10/12/92	0.09	---	---
	01/12/93	0.02	3.12	3.12
	04/06/93	<0.01	0.78	3.90
	07/12/93	0.01	0.18	4.08
	10/13/93	0.01	0.06	4.14
	01/20/94	0.01	0.03	4.17
	04/03/94	0.02	0.12	4.29
MW-2	10/12/92	0.03	---	---
	01/12/93	0.01	1.56	1.56
	04/06/93	<0.01	0.78	2.34
	04/03/94	<0.01	0.03	2.37
MW-4	10/12/92	0.78	---	---
	01/12/93	1.0	---	---
	04/06/93	0.95	---	---
	07/12/93	0.03	6.36	6.36
	10/13/93	0.12	0.78	7.14
	01/20/94	0.02	0.03	7.17
	04/13/94	0.01	0.12	7.29
	10/27/94	0.03	0.79	8.08
	01/03/95	0.01	0.16	8.24
	04/13/95	0.03	0.16	8.40
MW-5	10/12/92	0.01	---	---
	01/12/93	<0.01	---	---
	10/13/93	0.03	---	---
	01/20/94	0.01	---	---
	04/13/94	0.01	0.03	0.06
MW-6	10/12/92	0.48	---	---
	01/12/93	<0.01	---	---
	10/13/93	0.2	---	---
	01/20/94	0.02	---	---
	04/13/94	0.01	0.03	0.03
	07/19/94	0.07	0.03	0.06
	10/27/94	0.11	1.43	1.49
	01/03/95	0.02	0.12	1.61
	04/13/95	0.02	0.13	1.74

Table 1. Separate-Phase Hydrocarbon Removal - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Separate-Phase Hydrocarbon Thickness (ft)	Separate-Phase Hydrocarbons Removed (lbs)	Cumulative Separate-Phase Hydrocarbons Removed (lbs)
MW-7	01/20/94	0.05	---	---
	04/13/94	0.16	0.66	0.66
	07/19/94	0.20	0.04	0.70
	10/27/94	0.04	1.11	1.81
	01/03/95	0.02	0.16	1.97
	04/13/95	0.02	0.16	2.13
Total Separate-Phase Hydrocarbons Removed				18.99

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
MW-1	08/06/91	21.28	10.86	---	10.43
	10/23/91		11.05	0.01	10.24
	01/28/92		10.84	---	10.44
	05/04/92		9.42	<0.01	11.86
	07/13/92		11.36	---	9.92
	10/12/92		13.14	0.09	8.21
	01/12/93		7.52	0.02	13.78
	04/06/93		7.13	<0.01	14.16
	07/12/93		11.02	0.01	10.27
	10/13/93		12.18	0.01	9.11 ^a
	01/20/94		9.18	0.01	12.10
	04/13/94		8.72	0.02	12.58
	07/19/94		8.76	---	12.52
	10/27/94		10.49	---	10.79
	01/03/95		6.15	---	15.13
	04/13/95		5.24	---	16.04
	06/30/95		7.24	---	14.04
MW-2	08/06/91	21.56	9.72	---	11.84
	10/23/91		10.03	---	11.53
	01/28/92		8.78	---	12.78
	05/04/92		7.58	---	13.98
	07/13/92		9.63	---	11.93
	10/12/92		11.66	0.03	9.92
	01/12/93		7.13	0.01	14.44
	04/06/93		6.40	<0.01	15.17
	07/12/93		8.75	---	12.81
	10/13/93		10.28	---	11.28
	01/20/94		---	---	---
	04/13/94		7.35	<0.01	14.22
	07/19/94		8.24	---	13.32
	10/27/94		10.26	---	13.32
	01/03/95		6.44	---	15.12
	04/13/95		5.89	---	15.67
	06/30/95		7.41	---	14.15
MW-3	08/06/91	21.78	11.18	---	10.60
	10/23/91		11.69	---	10.09
	01/28/92		9.99	---	11.79
	05/04/92		9.46	---	12.32
	07/13/92		11.29	---	10.49
	10/12/92		13.10	---	8.68
	01/12/93		7.32	---	14.46

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	04/06/93		7.44 ✓	---	14.34
	07/12/93		10.62	---	11.16
	10/13/93		12.05	---	9.73
	01/20/94		9.62	---	12.16
	04/13/94		9.15	---	12.63
	07/19/94		10.13	---	11.65
	10/27/94		11.66	---	10.12
	01/03/95		6.89	---	14.89
	04/13/95		6.79	---	14.99
	06/30/95		8.94	---	12.84
MW-4	08/06/91	20.31 ✓	10.57	---	9.74
	10/23/91		10.46	---	9.85
	01/28/92		9.54	---	10.77
	05/04/92		8.33	---	11.98
	07/13/92		9.87	---	10.44
	10/12/92		✓12.43	0.78	8.50
	01/12/93		7.12	1.0	13.99
	04/06/93		7.23 ✓	0.95	13.84
	07/12/93		10.08	0.03	10.25
	10/13/93		11.35	0.12	9.06
	01/20/94		9.06	0.02	11.26
	04/13/94		8.58	0.01	11.74
	07/19/94		9.71	---	10.60
	10/27/94		10.60	0.03	9.73
	01/03/95		5.49	0.01	14.83
	04/13/95		6.53	0.03	13.80
	06/30/95		9.57	---	10.74
MW-5	08/06/91	20.91 ✓	10.23	---	10.68
	10/23/91		10.89	---	10.02
	01/28/92		8.45	---	12.46
	05/04/92		8.05	---	12.86
	07/13/92		10.00 ✓	---	10.91
	10/12/92		✓11.83	0.01	9.09
	01/12/93		6.10	<0.01	14.81
	04/06/93		6.18 ✓	---	14.73
	07/12/93		9.59	---	11.32
	10/13/93		10.80	0.03	10.13 ^a
	01/20/94		7.42	0.01	13.49
	04/13/94		7.05	0.01	13.87
	07/19/94		8.57	---	12.34
	10/27/94		10.14	---	10.77

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	01/03/95		5.84	---	15.07
	04/13/95		5.28	---	15.63
	06/30/95		7.43	---	13.48
MW-6	08/06/91	22.32	10.61	---	11.71
	10/23/91		11.68	---	10.64
	01/28/92		8.90	---	13.42
	05/04/92		8.01	---	14.31
	07/13/92		10.77	---	11.55
	10/12/92		13.36	0.48	9.34
	01/12/93		6.40	<0.01	15.92
	04/06/93		5.93	---	16.39
	07/12/93		10.25	---	12.07
	10/13/93		12.28	0.2	10.20 ^a
	01/20/94		9.14	0.02	13.20
	04/13/94		7.67	0.01	14.66
	07/19/94		10.07	0.07	12.31
	10/27/94		11.84	0.11	10.57
	01/03/95		7.80	0.02	14.54
	04/13/95		5.77	0.02	16.57
	06/30/95		7.78	---	14.54
MW-7	08/06/91	20.36	8.00	---	12.36
	10/23/91		8.16	---	12.20
	01/28/92		7.11	---	13.25
	05/04/92		6.47	---	13.89
	07/13/92		7.73	---	12.63
	10/12/92		8.68	---	11.68
	01/12/93		6.26	---	14.10
	04/06/93		5.92	---	14.44
	07/12/93		7.27	---	13.09
	10/13/93		9.40	---	10.96
	01/20/94		7.03	0.05	13.37
	04/13/94		6.56	0.16	13.93
	07/19/94		6.91	0.20	13.61
	10/27/94		8.28	0.04	12.11
	01/03/95		6.48	0.02	13.90
	04/13/95		6.54	0.02	13.84
	06/30/95		7.08	---	13.28
MW-8	08/06/91	20.95	9.60	---	11.35
	10/23/91		9.73	---	11.22
	01/28/92		7.72	---	13.23

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	05/04/92		6.48	---	14.47
	07/13/92		8.55 ✓	---	12.40
	10/12/92		✓9.97	---	10.98
	01/12/93		6.94	---	14.01
	04/06/93		✓ 5.72	---	15.23
	07/12/93		7.65	---	13.30
	10/13/93		8.25	---	12.70
	01/20/94		7.25	---	13.70
	04/13/94		7.12	---	13.83
	07/19/94		7.43	---	13.52
	10/27/94		7.55	---	13.40
	01/03/95		6.04	---	14.91
	04/13/95		5.04	---	15.91
	06/30/95		5.72	---	15.23
MW-9	08/06/91	21.19	10.33		10.86
	10/23/91		11.13	---	10.06
	01/28/92		9.02	---	12.17
	05/04/92		7.67	---	13.52
	07/13/92		10.26 ✓	---	10.93
	10/12/92		✓12.19	---	9.0
	01/12/93 ^b		---	---	---
	04/06/93 ^b		---	---	---
	07/12/93 ^b		---	---	---
	10/13/92		11.17	---	10.02
	01/20/94		8.03	---	13.16
	04/13/94		7.81	---	13.38
	07/19/94		8.96	---	12.23
	10/27/94		11.00	---	10.19
	01/03/95		6.60	---	14.59
	04/13/95		6.73	---	14.46
	06/30/95		7.32	---	13.87
MW-10	10/23/91	19.74	8.57	---	11.17
	01/28/92		7.60	---	12.14
	05/04/92		7.54	---	12.20
	07/13/92		8.59 ✓	---	11.15
	10/12/92		✓10.23	---	9.51
	01/12/93 ^b		---	---	---
	04/06/93		✓ 6.70	---	13.04
	07/12/93 ^b		8.05	---	11.69
	10/13/93		8.25	---	11.49
	01/20/94		7.20	---	12.54

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	04/13/94		7.57	---	12.17
	07/19/94		8.18	---	11.56
	10/27/94		8.68	---	11.06
	01/03/95		6.86	---	12.88
	04/13/95		6.91	---	12.83
	06/30/95		7.61	---	12.13
MW-11	10/23/91	22.06	14.0	---	8.06
	01/28/92		8.74	---	13.32 - P13.32
	05/04/92		8.29	---	13.77
	07/13/92		10.50 ✓	---	11.56
	10/12/92		12.40 ✓	---	9.66
	01/12/93 ^b		---	---	---
	04/06/93 ^b		---	---	---
	07/12/93 ^b		---	---	---
	10/13/93		11.47	---	10.59
	01/20/94		9.09	---	12.97
	04/13/94		8.02	---	14.04
	07/19/94		9.82	---	12.24
	10/27/94		11.66	---	10.40
	01/03/95		6.15	---	15.91
	04/13/95		6.00	---	16.06
	06/30/95		8.31	---	13.75

Notes:

- a = When separate-phase hydrocarbons are present ground water elevation is adjusted using the relation: Ground Water Elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).
- b = Well inaccessible, covered by construction debris.

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G					T	X
			← parts per billion (µg/L) →						
MW-1	08/06/91 ^{SPH}	10.86	—	—	—	—	—	—	
	10/23/91	11.05	32,000	2,700	550	360	3,700		
	01/28/92	10.84 ✓	✓ 14,000	1,000	450	106	✓ 1,600		
	05/05/92	9.42 ✓	98,000	11,000	3,500	1,200	18,000		
	07/13/92	11.36	✓ 11,000	✓ 1,100	740	130	1,300		
	10/12/92 ^{SPH}	13.14	—	—	—	—	—		
	01/12/93 ^{SPH}	7.52 ✓	—	—	—	—	—		
	04/06/93 ^{SPH}	7.13 ✓	—	—	—	—	—		
	07/12/93 ^{SPH}	11.02 ✓	—	—	—	—	—		
	10/13/93 ^{SPH}	12.18 ✓	—	—	—	—	—		
	01/20/94 ^{SPH}	9.18 ✓	—	—	—	—	—		
	04/13/94 ^{SPH}	8.72 ✓	—	—	—	—	—		
	07/19/94	8.76 ✓	✓ 17,000	✓ 420	530	140	1,300		
	10/27/94	10.49 ✓	✓ 23,000	✓ 1,200	990	130	960		
	01/03/95	6.15 ✓	✓ 31,000	✓ 610	1,200	160	5,000		
	04/13/95	5.24 ✓	20,000	340	680	42	2,900		
	06/30/95	7.24 ✓	✓ 16,000	✓ 450	✓ 460	✓ 62	✓ 1,200		
	MW-2	08/06/91	9.72	50,000	15,000	2,700	1,400	13,000	
		10/23/91	10.03	120,000	11,000	3,500	1,400	19,000	
01/28/92		8.78 ✓	✓ 49,000	✓ 7,400	1,800	800	8,300		
05/05/92		7.58 ✓	52,000	12,000	2,200	1,100	12,000		
07/13/92		9.63	✓ 47,000	✓ 15,000	4,500	2,400	16,000		
10/12/92 ^{SPH}		11.66 ✓	—	—	—	—	—		
01/12/93 ^{SPH}		7.13 ✓	—	—	—	—	—		
04/06/93 ^{SPH}		6.40 ✓	—	—	—	—	—		
07/12/93		8.75 ✓	✓ 59,000	✓ 12,000	2,400	950	11,000		
10/13/93		10.28 ✓	✓ 54,000	✓ 14,000	3,700	1,200	22,000		
01/20/94		—	—	—	—	—	—		
04/13/94		7.35	79,000	9,400	2,100	740	12,000		
04/13/94 ^{dup}		7.35	✓ 110,000	✓ 11,000	2,400	710	13,000		
07/19/94		8.24 ✓	63,000	13,000	1,900	810	13,000		
07/19/94 ^{dup}		8.24 ✓	✓ 12,000	✓ 12,000	340	140	12,000		
10/27/94		10.26 ✓	✓ 64,000	✓ 8,800	2,100	480	10,000		
01/03/95		6.44 ✓	67,000	9,800	2,800	720	11,000		
01/03/95 ^{dup}		6.44 ✓	✓ 58,000	✓ 9,700	2,700	620	12,000		
04/13/95		5.89 ✓	83,000	10,000	2,600	490	13,000		
04/13/95 ^{dup}		5.89 ✓	74,000	9,500	2,100	350	11,000		
06/30/95	7.41 ✓	✓ 65,000	✓ 12,000	✓ 2,400	✓ 1,800	✓ 12,000			



Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)					
			TPH-G	B	E	T	X	
MW-3	08/06/91	11.18	430	8	4	1	15	
	10/23/91	11.69	390	2.1	0.48	<0.3	2	
	01/28/92	9.99 ✓	190	<0.5	<0.5	<0.5	<0.5	
	05/04/92	9.46	190	<1	<1	<1	0.71	
	07/20/92	11.29	200 ^a	<0.5	<0.5	<0.5	<0.5	
	10/12/92	13.10	180 ^a	<0.5	<0.5	<0.5	<0.5	
	01/12/93	7.32 ✓	180	<0.5	0.9	2.3	5.6	
	01/12/93 ^{dnp}	7.32 ✓	260	<0.5	<0.5	<0.5	<0.5	
	04/06/93	7.44	280	<0.5	<0.5	<0.5	<0.5	
	07/12/93	10.62 ✓	310 ^a	<0.5	<0.5	<0.5	<0.5	
	10/13/93	12.05 ✓	150	<0.5	<0.5	<0.5	<0.5	
	01/20/94	9.62 ✓	180	<0.5	<0.5	<0.5	<0.5	
	04/13/94	9.15	270	<0.5	<0.5	<0.5	<0.5	
	07/19/94	10.13 ✓	190 [*]	<0.5	<0.5	<0.5	<0.5	
	10/27/94	11.66 ✓	160 [*]	<0.5	<0.5	<0.5	<0.5	
	01/03/95	6.89 ✓	100 [*]	<0.5	<0.5	<0.5	<0.5	
	04/13/95	6.79	120 [*]	<0.5	<0.5	<0.5	<0.5	
	06/30/95	8.94	180 [*]	<0.5	<0.5	<0.5	<0.5	
	MW-4	08/06/91	10.57	1,300	28	68	18	150
		10/23/91	10.46	1,900	97	38	6.1	77
01/28/92		9.54 ✓	200	7.6	3	<0.5	3.3	
05/04/92		8.33	690	98	13	3	<1	
07/13/92		9.87	1,500	140	17	2.9	12	
07/13/92 ^{dnp}		9.87	870	95	10	1.9	7.1	
10/12/92 ^{SPH} ✓		12.43	---	---	---	---	---	
01/12/93 ^{SPH}		7.12	---	---	---	---	---	
04/06/93 ^{SPH}		7.23	---	---	---	---	---	
07/12/93 ^{SPH} ✓		10.08	---	---	---	---	---	
10/13/93 ^{SPH} ✓		11.35	---	---	---	---	---	
01/20/94 ^{SPH}		9.06	---	---	---	---	---	
04/13/84 ^{SPH}		8.58	---	---	---	---	---	
07/18/94		9.71 ✓	12,000	230	230	43	660	
10/27/94 ^{SPH} ✓		10.60	---	---	---	---	---	
01/03/95 ^{SPH}		5.49 ✓	---	---	---	---	---	
04/13/95 ^{SPH}		6.53	---	---	---	---	---	
06/30/95		9.57	7,400	140	160	<0.5	350	

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)				
			TPH-G	B	E	T	X
MW-5	08/06/91	10.23	9,100	210	240	27	660
	10/23/91	10.89	12,000	92	230	18	450
	01/28/92	8.45 ✓	3,300	130	180	10	220
	05/04/92	8.05	3,900	95	260	<12.5	120
	07/13/92	10.00 ✓	4,100	✓180	250	12	73
	10/12/92 ^{SPH}	11.83	—	—	—	—	—
	01/12/93 ^{SPH}	6.10	—	—	—	—	—
	04/06/93	6.18	6,200	71	53	<0.5	150
	07/12/93	9.59 ✓	3,400	✓130	170	<0.5	130
	10/13/93 ^{SPH}	10.80 ✓	—	—	—	—	—
	01/20/94 ^{SPH}	7.42 ✓	—	—	—	—	—
	04/13/94 ^{SPH}	7.05 ✓	—	—	—	—	—
	07/19/94	8.57 ✓	11,000	180	180	13	260
	10/27/94	10.14 ✓	6,900	82	210	<5	110
	01/03/95	5.84 ✓	12,000	110	790	46	510
	04/13/95	5.28	10,000	61	330	<20	140
	06/30/95	7.43	12,000	✓180	440	8.6	340
MW-6	08/06/91	10.61	28,000	1,400	1,300	200	4,200
	10/23/91	11.68	53,000	1,400	1,800	230	6,700
	01/28/92	8.90 ✓	87,000	1,200	2,000	470	6,600
	05/05/92	8.01	230,000	<500	3,200	<500	11,000
	07/13/92	10.77	2,700,000	<2,500	14,000	3,500	36,000
	10/12/92 ^{SPH}	8.68	—	—	—	—	—
	01/12/93 ^{SPH}	6.40	—	—	—	—	—
	04/06/93	5.93	320,000	2,500	5,400	980	14,000
	07/12/93	10.25 ✓	31,000	1,100	1,700	150	4,500
	07/12/93 ^{dnp}	10.25	25,000	1,200	2,000	270	4,800
	10/13/93 ^{SPH}	12.28 ✓	—	—	—	—	—
	01/20/94 ^{SPH}	9.14 ✓	—	—	—	—	—
	04/13/94 ^{SPH}	7.67 ✓	—	—	—	—	—
	07/19/94 ^{SPH}	10.07 ✓	—	—	—	—	—
	10/27/94 ^{SPH}	11.84 ✓	—	—	—	—	—
	01/03/95 ^{SPH}	7.80 ✓	—	—	—	—	—
	04/13/95 ^{SPH}	5.77	—	—	—	—	—
06/30/95	7.78	1,100,000	6,600	12,000	6,100	29,000	

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	parts per billion (µg/L)			
					E	T	X	
MW-7	08/06/91	8.00	13,000	4,300	770	76	730	
	10/23/91	8.16	18,000	3,200	660	31	770	
	01/28/92	7.11	5,000	1,200	220	<10	54	
	05/05/92	6.47	9,500	3,100	620	72	880	
	07/13/92	7.73	20,000	4,200	1,600	130	1,100	
	10/12/92	9.97	16,000	2,500	560	<50	170	
	01/12/93	6.26	15,000	2,300	690	<0.5	440	
	04/06/93	5.92	26,000	5,400	1,200	310	3,000	
	04/06/93 ^{dup}	5.92	21,000	5,200	1,200	180	3,000	
	07/12/93	7.27	10,000	3,000	510	100	530	
	10/13/93	9.40	59,000	13,000	4,400	4,400	20,000	
	01/20/94 ^{SPH}	7.03	---	---	---	---	---	
	04/13/94 ^{SPH}	6.56	<	---	---	---	---	
	07/19/94 ^{SPH}	6.91	---	---	---	---	---	
	10/27/94 ^{SPH}	8.28	---	---	---	---	---	
	01/03/95 ^{SPH}	6.48	---	---	---	---	---	
	04/13/95 ^{SPH}	6.54	---	---	---	---	---	
	06/30/95	7.08	900,000	11,000	14,000	8,500	52,000	
	MW-8	08/06/91	9.60	32,000	3,700	1,400	1,100	6,100
		10/23/91	9.73	63,000	4,800	1,300	1,300	6,900
01/28/92		7.72	32,000	1,900	1,400	750	6,300	
05/05/92		6.48	180,000	2,200	2,700	2,000	13,000	
07/13/92		8.55	56,000	4,500	2,700	1,500	9,100	
10/12/92		9.97	34,000	2,400	1,400	550	6,400	
10/12/92 ^{dup}		9.97	34,000	3,100	1,500	700	7,200	
01/12/93		6.94	110,000	2,100	2,400	1,200	12,000	
04/06/93		5.72	38,000	2,500	1,100	840	4,900	
07/12/93		7.65	27,000	2,800	1,200	990	5,300	
10/13/93		8.25	32,000	3,300	1,600	1,300	8,400	
10/13/93 ^{dup}		8.25	47,000	3,200	1,600	1,300	8,500	
01/20/94		7.25	78,000	1,900	1,300	670	6,600	
01/20/94 ^{dup}		7.25	60,000	1,700	1,100	680	5,500	
04/13/94		7.12	41,000	1,300	1,200	720	6,000	
07/19/94		7.43	140,000	1,800	2,000	1,400	9,000	
10/27/94		7.55	32,000	1,200	1,200	670	5,700	
10/27/94 ^{dup}		7.55	42,000	1,100	1,100	650	5,700	



Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G					T	X
			← parts per billion (µg/L) →						
MW-9	01/03/95	✓ 6.04	✓ 38,000	✓ 1,000	1,500	700	7,500		
	04/13/95	5.04	31,000	1,200	1,000	570	5,300		
	06/30/95	5.72	110,000	2,000	2,000	1,500	9,700		
	08/06/91	10.33	11,000	1,700	520	95	1,400		
	10/23/91	11.13	20,000	1,000	<0.3	47	940		
	01/28/92	9.02 ✓	3,500	120	280	<10	36		
	05/04/92	7.67	✓ 7,700	✓ 1,200	380	<50	630		
	07/20/92	10.26	11,000	910	220	<50	1,200		
	10/12/92	12.19	2,100	340	77	15	44		
	<i>paired over</i> 01/12/93 ^b	---	---	---	---	---	---		
	04/06/93 ^b	---	---	---	---	---	---		
	07/12/93 ^b	---	---	---	---	---	---		
	10/13/93	11.17 ✓	✓ 2,900	✓ 140	<5	<5	120		
	01/20/94	✓ 8.03	✓ 1,700	380	150	6.9	400		
	04/13/94	7.81	✓ 6,000	✓ 1,000	450	<20	420		
	07/19/94	✓ 8.96	12,000 ✓	✓ 400	740	<5	1,200		
	10/27/94	✓ 11.00	10,000 ✓	✓ 1,200	280	160	860		
	01/03/95	✓ 6.60	✓ 4,400	✓ 680	180	7.7	370		
	04/13/95	6.73	1,700	270	69	<10	170		
	06/30/95	7.32	14,000	2,200	900	18	2,600		
06/30/95 ^{dup}	7.32	13,000	2,100	870	17	2,500			
MW-10	10/23/91	8.57	27,000	1,600	1,800	110	510		
	01/28/92	7.60 ✓	✓ 3,800	360	170	14	39		
	05/04/92	7.54	✓ 3,000	✓ 360	140	<12.5	26		
	07/20/92	8.59	✓ 15,000	✓ 400	180	<25	67		
	10/12/92	10.23	✓ 16,000	✓ 320	360	<50	100		
	01/12/93 ^b	---	---	---	---	---	---		
	04/06/93	6.70	✓ 14,000	✓ 370	880	<0.5	210		
	07/12/93	8.05 ✓	✓ 10,000	✓ 440	890	58	220		
	10/13/93	8.25 ✓	✓ 15,000	✓ 1,000	810	51	170		
	01/20/94	✓ 7.20	✓ 12,000	✓ 820	1,100	56	350		
	04/13/94	7.57	✓ 18,000	✓ 760	700	36	130		
	07/19/94	✓ 8.18	✓ 24,000	✓ 400	800	2.3	22		
	10/27/94	✓ 8.68	✓ 11,000	✓ 360	310	43	89		
	01/03/95	✓ 6.86	✓ 17,000	✓ 770	690	38	160		
	04/13/95	6.91	9,900	650	280	16	40		
	06/30/95	7.61	12,000	750	480	20	130		

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G					T	X
			← parts per billion (µg/L) →						
MW-11 <i>WMS</i>	10/23/91	8.06	140	<12		0.37	<0.3	0.56	
	01/28/92	<u>13.32</u> <i>8.74</i> ✓	<50	<0.5		<0.5	<0.5	<0.5	
	05/04/92	13.77	<50	<0.5		<0.5	<0.5	<0.5	
	07/13/92	11.56	140 ^b	<0.5		<0.5	<0.5	<0.5	
	10/12/92	12.40	75 ^b	<0.5		<0.5	<0.5	<0.5	
	01/12/93 ^b	---	---	---	---	---	---	---	
	04/06/93 ^b	---	---	---	---	---	---	---	
	07/12/93 ^b	---	---	---	---	---	---	---	
	10/13/93	11.47	<50	<0.5		<0.5	<0.5	<0.5	
	01/20/94	9.09	<50	<0.5		<0.5	<0.5	<0.5	
	04/13/94	8.02	<50	<0.5		<0.5	<0.5	<0.5	
	07/19/94	9.82	50	<0.5		<0.5	<0.5	<0.5	
	10/27/94	11.66 ✓	60*	<0.5		<0.5	<0.5	<0.5	
	01/03/95	6.15	<50	<0.5		<0.5	<0.5	<0.5	
	04/13/95	6.00	<50	<0.5		<0.5	<0.5	<0.5	
	06/30/95	8.31	70	<0.5		<0.5	<0.5	<0.5	
	Bailer Blank	07/13/92		<50	<0.5		<0.5	<0.5	<0.5
07/20/92			<50	<0.5		<0.5	<0.5	<0.5	
10/12/92			<50	<0.5		<0.5	<0.5	<0.5	
04/13/94			<50	<0.5		0.67	<0.5		
07/19/94			<50	<0.5		<0.5	<0.5		
10/27/94			<50	<0.5		<0.5	<0.5		
01/03/95			<50	<0.5		<0.5	<0.5		
04/13/95			<50	<0.5		<0.5	<0.5		
06/30/95			<50	<0.5		<0.5	<0.5		
Trip Blank	01/28/92		<50	<0.5		<0.5	<0.5	<0.5	
	05/05/92		<50	<0.5		<0.5	<0.5	<0.5	
	07/13/92		<50	<0.5		<0.5	<0.5	<0.5	
	07/20/92		<50	<0.5		<0.5	<0.5	<0.5	
	10/12/92		<50	<0.5		<0.5	<0.5	<0.5	
	01/12/93		<50	<0.5		<0.5	<0.5	<0.5	
	04/06/93		<50	<0.5		<0.5	<0.5	<0.5	
	07/12/93		<50	<0.5		<0.5	<0.5	<0.5	
	10/13/93		<50	<0.5		<0.5	<0.5	<0.5	
	01/20/94		<50	<0.5		<0.5	<0.5	<0.5	
04/13/94		<50	<0.5		<0.5	<0.5	<0.5		
07/19/94		<50	<0.5		<0.5	<0.5	<0.5		

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	E	T	X
			← parts per billion (µg/L) →				
	10/27/94		<50	<0.5	<0.5	<0.5	<0.5
	01/03/95		<50	<0.5	<0.5	<0.5	<0.5
	04/13/95		<50	<0.5	<0.5	<0.5	<0.5
	06/30/95		<50	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			NE	1	680	100 ^c	1,750

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene by EPA Method 8020

X = Xylenes by EPA Method 8020

NE = Not established

DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water

— = Not analyzed

<n = Not detected at detection limits of n ppb

dup = Duplicate sample

SPH = Not sampled, separate-phase hydrocarbons detected in well

Notes:

a = Concentration reported as gasoline is due to the presence of a discrete hydrocarbon peak that is not indicative of gasoline

b = Not sampled. Well inaccessible

c = DTSC recommended action level; MCL not established

* = The result for gasoline is an unknown hydrocarbon which consists of a single peak as confirmed by NET Laboratory