



May 19, 1996

20220

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

Re: **First Quarter 1996**
Shell Service Station
WIC #204-5508-5504
285 Hegenberger Road
Oakland, California
WA Job #81-1162-206

Dear Mr. Chan:

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.

First Quarter 1996 Activities

HYDROCARBON REMOVAL SUMMARY	
<i>Pounds of Vapor-Phase Hydrocarbons Removed During this Period</i>	<i>Cumulative Pounds Removed</i>
0	707

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells (Figures 1 and 2). The BTS report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations, compiled the analytic data (Tables 1 and 2), prepared a ground water elevation contour map and plotted benzene concentrations in ground water (Figure 2).
- The soil vapor extraction (SVE) system remained off during the first quarter of 1996.


Anticipated Second Quarter 1996 Activities

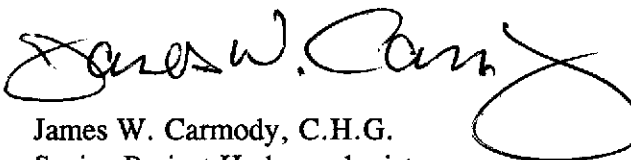
- WA will submit a report presenting the results of the second quarter 1996 ground water monitoring results. The report will include tabulated chemical analytic results, ground water elevations, a ground water elevation contour map and plotted benzene concentrations in ground water.
- In the third quarter of 1996, WA will initiate semi-annual sampling in all wells unless otherwise notified by Alameda County Department of Environmental Health.

We trust that this submittal meets your needs. Please call Tim Utterback at (510) 450-6000 if you have any questions or comments.

Sincerely,
Weiss Associates




Grady S. Glasser
Technical Assistant


James W. Carmody, C.H.G.
Senior Project Hydrogeologist

Attachments: A - BTS Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524
Brad Boschetto, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524
Anne Singley, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524
Richard Hiatt, Regional Water Quality Control Board - San Francisco Bay Region,
2101 Webster Street, Suite 500, Oakland, California 94612
Joseph J. Armayo, Heller, Ehrman, White and McAuliffe, 333 Bush Street, Suite 3100,
San Francisco, California 94104

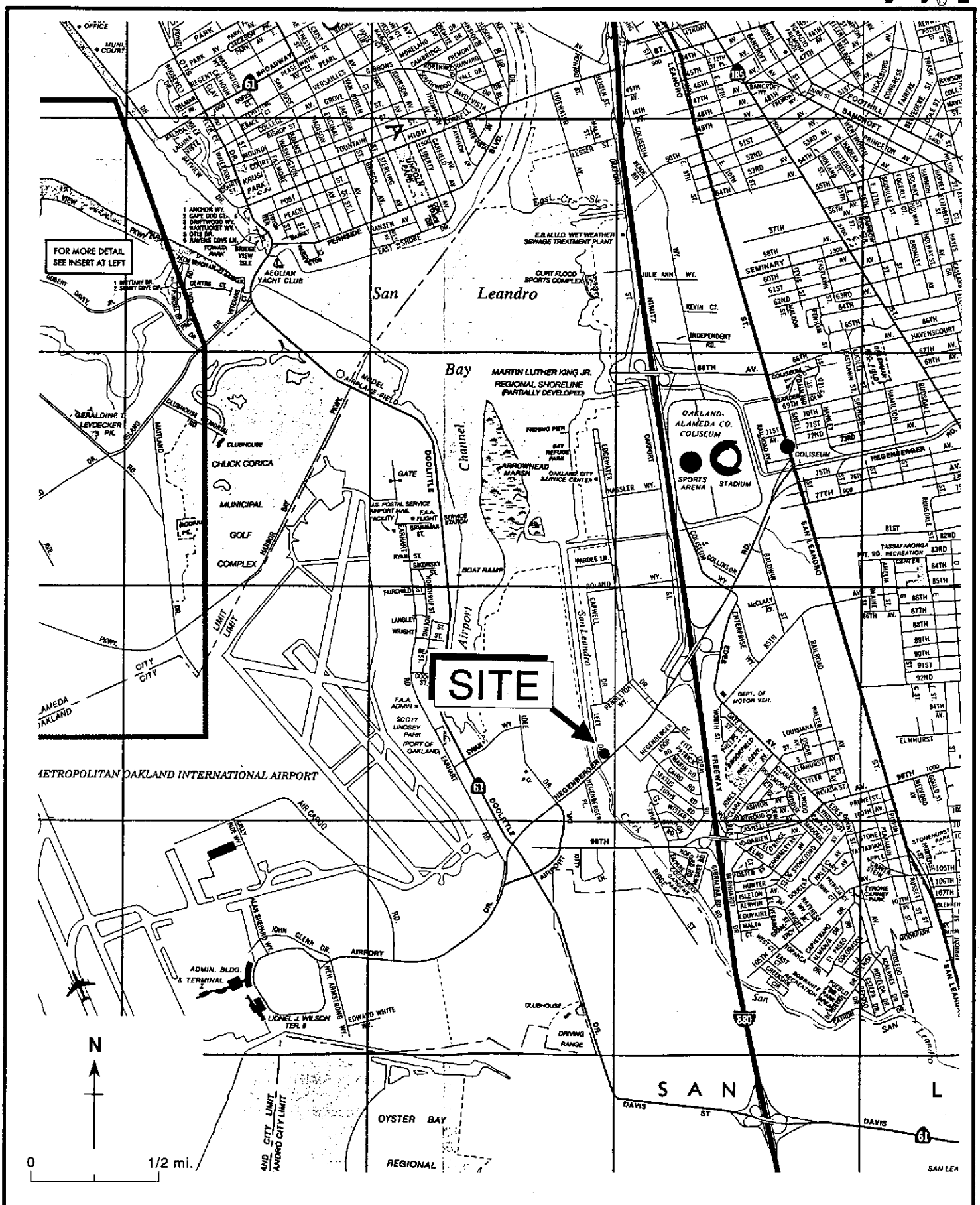


Figure 1. Site Location Map - Shell Service Station - WIC# 204-5508-5504, 258 Hegenberger Road, Oakland, California

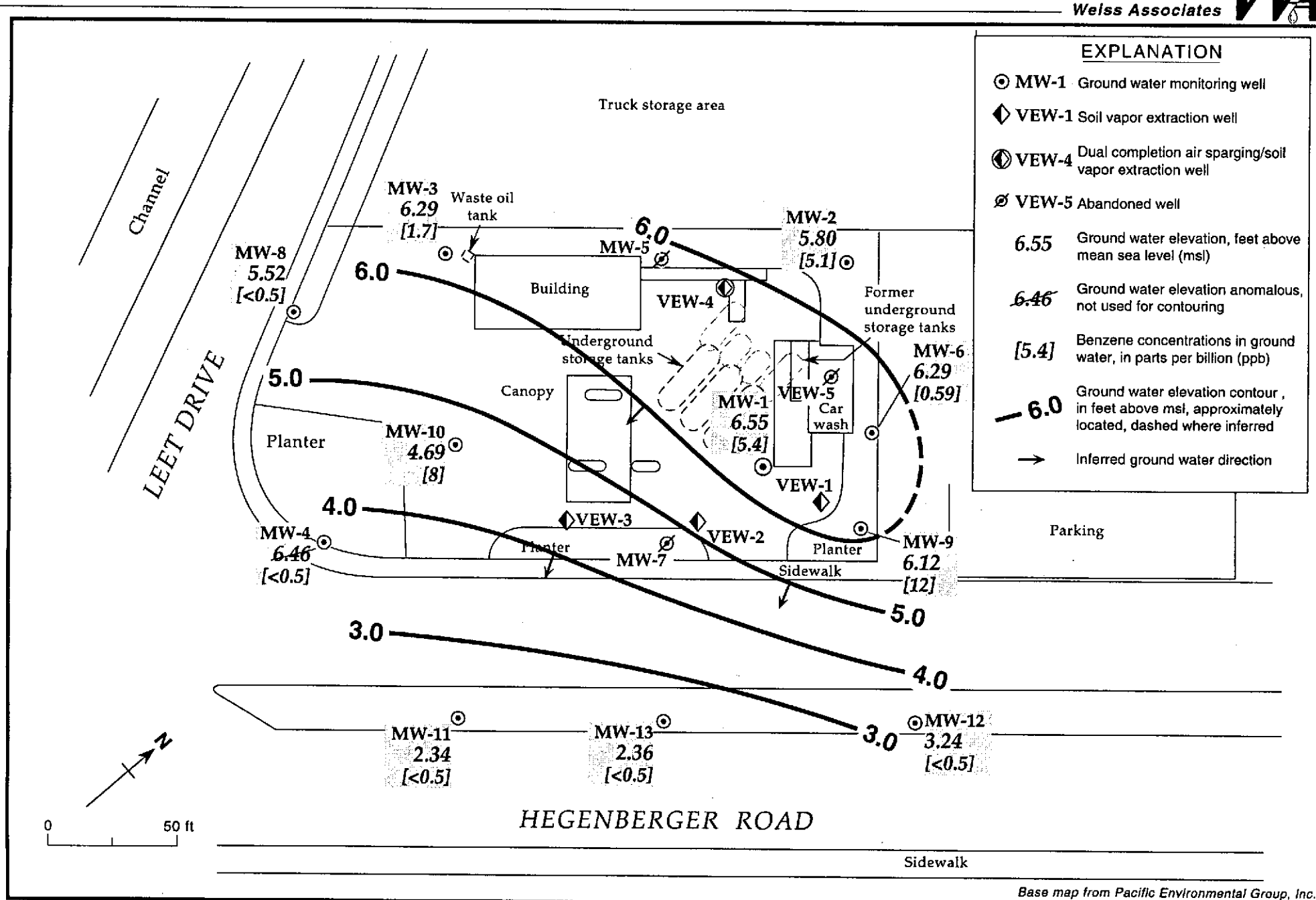


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - January 9, 1996 - Shell Service Station - WIC# 204-5508-5504, 258 Hegenberger Road, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)		
MW-1	02/16/89	6.64	3.83	2.81		
	05/23/89		3.59	3.05		
	08/03/89		4.04	2.60		
	12/15/89		4.22	2.42		
	02/07/90		4.60	2.04		
	04/18/90		4.02	2.62		
	07/23/90		4.17	2.47		
	09/27/90		4.60	2.04		
	01/03/91		4.88	1.76		
	04/10/91		3.55	3.09		
	07/12/91		3.97	2.67		
	10/08/91		4.26	2.38		
	02/06/92		4.94	1.70		
	05/04/92		3.58	3.06		
	07/28/92		3.91	2.73		
	10/27/92	4.79	1.85			
	01/14/93	3.39	3.25			
	04/23/93	2.67	3.97			
	07/20/93	9.50	3.48	6.02		
	10/18/93		4.20	5.30		
	01/06/94		4.13	5.37		
	04/12/94		2.42	7.08		
	07/25/94		3.37	6.13		
	10/25/94		4.07	5.43		
	01/09/95		2.65	6.85		
	04/11/95		2.38	7.12		
	07/18/95		3.49	6.01		
	10/18/95		← Well Inaccessible →			
	01/09/96			2.95	6.55	
	MW-2		02/16/89	7.68	5.33	2.35
05/23/89			5.23		2.45	
08/03/89			6.03		1.65	
12/15/89			6.43		1.25	
02/07/90		5.82	1.86			
04/18/90		5.88	1.80			
07/23/90		6.05	1.63			
01/03/91		6.82	0.86			
04/10/91		4.80	2.88			
07/12/91		5.70	1.98			
10/08/91		6.40	1.28			
02/06/92		6.40	1.28			
05/04/92		4.68	3.00			
07/28/92	5.86	1.82				

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	10/27/92		6.96	0.72
	01/14/93		4.12	3.56
	04/23/93		3.84	3.84
	07/20/93	10.55	5.17	5.38
	10/18/93		6.20	4.35
	01/06/94		5.39	5.16
	04/12/94		4.72	5.83
	07/25/94		5.44	5.11
	10/25/94		6.73	3.82
	01/09/95		4.34	6.21
	04/11/95		3.72	6.83
	07/18/95		4.91	5.64
	10/18/95		5.88	4.67
	01/09/96		4.75	5.80
MW-3	02/16/89	7.81	5.17	2.64
	05/23/89		5.09	2.72
	08/03/89		5.34	2.47
	12/15/89		6.02	1.79
	02/07/90		4.95	2.86
	04/18/90		5.55	2.26
	07/23/90		5.81	2.00
	09/27/90		6.86	0.95
	01/03/91		6.84	0.97
	04/10/91		4.93	2.88
	07/12/91		5.56	2.25
	10/08/91		6.62	1.19
	02/06/92		6.28	1.53
	05/04/92		4.65	3.16
	07/28/92		5.56	2.25
	10/27/92		6.65	1.16
	01/14/93		3.88	3.93
	04/23/93	← Well Inaccessible →		
	07/20/93	11.25 (TOB)	← Well Inaccessible →	
	10/18/93	← Well Inaccessible →		
	01/06/94		5.54	N/A
	04/12/94		4.82	N/A
	07/25/94		6.03 (TOB)	5.22
	10/25/94		6.48	N/A
	01/09/95		4.86 (TOB)	6.39
	04/11/95		4.22 (TOB)	7.03
	07/18/95		5.44 (TOB)	5.81
	10/18/95		5.72	N/A
	01/09/96		4.96	6.29

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)	
MW-4	05/23/89	7.38	5.60	1.78	
	08/03/89		6.37	1.01	
	12/15/89		6.91	0.47	
	03/08/90		6.06	1.32	
	04/18/90		5.84	1.54	
	07/23/90		6.92	0.46	
	07/23/90		6.92	0.46	
	09/27/91		8.03	0.65	
	01/03/91		7.54	-0.16	
	04/10/91		5.06	2.32	
	07/12/91		6.86	0.52	
	10/08/91		7.44	-0.06	
	02/06/92		7.29	0.09	
	05/04/92	5.33	2.05		
	07/28/92	6.95	0.43		
	10/27/92	7.65	-0.27		
	01/14/93	4.84	2.54		
	04/23/93	4.84	2.54		
	07/20/93	10.28	6.47	3.81	
	10/18/93		7.35	2.93	
	01/06/94		7.64	2.64	
	04/12/94		6.39	3.89	
	07/25/94		7.00	3.28	
	10/25/94		7.53	2.75	
	01/09/95		4.90	5.38	
	04/11/95		5.04	5.24	
07/18/95	6.18		4.10		
10/18/95	6.63		3.65		
01/09/96	3.82		6.46		
MW-5	05/23/89		8.18	5.47	2.71
	08/03/89			5.94	2.24
	12/15/89	6.75		1.43	
	02/07/90	6.03		2.15	
	04/18/90	5.80		2.38	
	07/23/90	6.00		2.18	
	09/23/90	7.18		1.00	
	01/03/91	7.17		1.01	
	04/10/91	5.25		2.93	
	07/12/91	5.70		2.48	
	10/08/91	6.50		1.68	
	02/06/92	6.35		1.83	
	05/04/92	4.87		3.31	
07/28/92	5.73	2.45			

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	10/27/92		6.98	1.20
	01/14/93		4.70	3.48
	04/23/93		4.19	3.99
	07/20/93	10.87	5.10	5.77
	10/18/93		5.79	5.08
	01/06/94		5.56	5.31
	04/12/94		4.90	5.97
	07/25/94		5.38	5.49
	10/25/94		6.16	4.71
	01/09/95		4.60	6.27
	04/11/95		3.74	7.13
	07/18/95		4.97	5.90
	10/18/95		5.67	5.20
	01/09/96		---	---
MW-6	05/23/89	8.21	5.47	2.74
	08/03/89		5.91	2.30
	12/15/89		5.98	2.23
	02/07/90		5.47	2.74
	04/18/90		5.80	2.41
	07/23/90		5.85	2.36
	09/27/90		6.42	1.79
	01/03/91		6.73	1.48
	04/10/91		5.24	2.97
	07/12/91		5.78	2.43
	10/08/91		6.36	1.85
	02/06/92		6.15	2.06
	05/04/92		5.07	3.14
	07/28/92		5.85	2.36
	10/27/92		6.69	1.52
	01/14/93		4.52	3.69
	04/23/93		4.32	3.89
	07/20/93	11.04	5.39	5.65
	10/18/93		6.67	4.37
	01/06/94		5.66	5.38
	04/12/94		4.91	6.13
	07/25/94		5.55	5.49
	10/25/94		6.24	4.80
	01/09/95		4.58	6.46
	04/11/95		4.04	7.00
	07/18/95		5.01	6.03
	10/18/95		5.86	5.18
	01/09/96		4.75	6.29

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
MW-7	05/23/89	7.44	5.48	1.96
	08/03/89		4.22	3.22
	12/15/89		4.58	2.86
	02/07/90		5.34	2.10
	04/18/90		4.92	2.52
	07/23/90		4.99	2.45
	09/27/90		6.16	1.28
	01/03/91		4.96	2.48
	04/10/91		4.13	3.31
	07/12/91		4.98	2.46
	10/08/91		5.48	1.96
	02/06/92		5.05	2.39
	05/04/92		4.43	3.01
	07/28/92		4.88	2.56
	10/27/92		5.39	2.05
	01/14/93	4.26	3.18	
	04/23/93	4.04	3.40	
	07/20/93	10.28	4.36	5.92
	10/18/93		5.14	5.14
	01/06/94		4.83	5.45
	04/12/94		4.24	6.04
	07/25/94		4.58	5.70
	10/25/94		5.07	5.21
	01/09/95		3.38	6.90
	04/11/95		3.52	6.76
	07/18/95		4.70	5.58
10/18/95	5.25		5.03	
01/09/96				
MW-8	05/23/89	7.79	6.62	1.17
	08/03/89		6.62	1.17
	12/15/89		6.71	1.08
	03/08/90		4.95	2.84
	04/18/90		6.40	1.89
	07/23/90		6.62	1.17
	09/27/90		6.98	0.81
	01/03/91		7.03	0.76
	04/10/91		4.40	3.39
	07/12/91		6.80	0.99
	10/08/91		7.56	0.23
	02/06/92		6.94	0.85
	05/04/92		5.86	1.93
	07/28/92		6.94	0.85
10/27/92	7.83	-0.04		

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	01/14/93		3.60	4.19
	04/23/93		4.12	3.67
	07/20/93	10.61	6.38	4.23
	10/18/93		7.47	3.14
	01/06/94		7.20	3.41
	04/12/94		6.16	4.45
	07/25/94		6.94	3.67
	10/25/94		7.43	3.18
	01/09/95		3.98	6.63
	04/11/95		4.12	6.49
	07/18/95		5.21	5.40
	10/18/95		5.58	5.03
	01/09/96		5.09	5.52
MW-9	08/03/89	7.63	5.78	1.85
	12/15/89		5.24	2.39
	02/07/90		5.23	2.40
	04/18/90		5.34	2.29
	07/23/90		5.65	1.98
	09/27/90		5.96	1.67
	01/03/91		6.23	1.40
	04/10/91		4.65	2.98
	07/12/91		5.65	1.98
	10/08/91		6.08	1.55
	02/06/92		5.92	1.71
	05/04/92		4.80	2.83
	07/28/92		5.61	2.02
	10/27/92		6.24	1.39
	01/14/93		4.95	2.68
	04/23/93		4.54	3.09
	07/20/93	10.48	5.25	5.23
	10/18/93		6.00	4.48
	01/06/94		5.62	4.86
	04/12/94		4.31	6.17
	07/25/94		5.43	5.05
	10/25/94		6.00	4.48
	01/09/95		4.26	6.22
	04/11/95		4.08	6.40
	07/18/95		5.07	5.41
	10/18/95		5.82	4.66
	01/09/96		4.36	6.12

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)	
MW-10	12/15/89	7.45	6.33	0.82	
	03/08/90		5.41	2.00	
	04/18/90		5.60	1.85	
	07/23/90		5.81	1.64	
	09/27/90		6.64	0.81	
	01/03/91		6.96	0.49	
	04/10/91		4.70	2.75	
	07/12/91		5.90	1.55	
	10/08/91		6.68	0.77	
	02/06/92		7.04	0.41	
	05/04/92		4.69	2.76	
	07/28/92		6.00	1.45	
	10/27/92		← Well Inaccessible →		
	01/14/93		6.07	1.38	
	04/23/93		4.14	3.31	
	07/20/93	10.61	5.62	4.99	
	10/18/93		6.43	4.18	
	01/06/94		6.74	3.87	
	04/12/94		5.98	4.63	
	07/25/94		6.31	4.30	
10/25/94	6.64		3.97		
01/09/95	5.70		4.91		
04/11/95	5.82		4.79		
07/18/95	6.79	3.82			
10/18/95	5.31	5.30			
01/09/96		5.92	4.69		
MW-11	07/20/93	10.56	8.08	2.48	
	10/18/93		8.24	2.32	
	01/06/94		8.47	2.09	
	04/12/94		8.44	2.12	
	07/25/94		8.20	2.36	
	10/25/94		8.67	1.89	
	01/09/95		7.63	2.93	
	04/11/95		8.06	2.50	
	07/18/95		9.31	1.25	
	10/18/95		8.34	2.22	
01/09/96		8.22	2.34		
MW-12	07/20/93	9.56	6.76	2.80	
	10/18/93		7.12	2.44	
	01/06/94		7.15	2.41	
	04/12/94		6.68	2.88	
	07/25/94		6.83	2.73	

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	10/25/94		7.34	2.22
	01/09/95		5.02	4.54
	04/11/95		7.38	2.18
	07/18/95		8.50	1.06
	10/18/95		6.63	2.93
	01/09/96		6.32	3.24
MW-13	07/20/93	10.10	8.32	1.78
	10/18/93		8.66	1.44
	01/06/94		8.70	1.40
	04/12/94		8.20	1.90
	07/25/94		8.39	1.71
	10/25/94		8.70	1.40
	01/09/95		7.35	2.75
	04/11/95		5.50	4.60
	07/18/95		6.63	3.47
	10/18/95		8.12	1.98
	01/09/96		7.74	2.36

Abbreviations:

- MSL = Mean sea level
- TOC = Top of casing
- TOB = Top of box elevation
- N/A = Not available

Table 2
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

Shell Service Station
 285 Hegenberger Road at Least Drive
 Oakland, California

Well Number	Date Sampled	TPPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TEPH (ppm)	TPH as Motor Oil (ppm)	MTBE (ppm)
MW-1	02/16/92	99	20	23	5.7	23	NA	NA	—
	05/23/92	48	4.2	5.2	1.2	7.7	11	NA	—
	08/04/89	63	5.5	5.5	3.2	9.5	11	NA	—
	12/15/89	30	ND	ND	ND	ND	11	NA	—
	02/07/90	93	13	9.6	2.4	14	10	NA	—
	04/18/90	55	14	8.4	3.2	13	8.7	NA	—
	07/24/90	73	16	7.4	2.8	15	3.6	NA	—
	10/01/90	45	8	4.3	2	11	1.7	NA	—
	01/02/91	43	10	3.4	1.9	11	3.1	NA	—
	04/09/91	67	20	9.6	3.5	16	1.8	NA	—
	07/11/91	NR	NR	NR	NR	NR	NR	NA	—
	10/08/91	55	18	3.5	2.3	8.6	7.4	NA	—
	02/06/92	48	12	2.8	1.9	7.4	15 ^a	NA	—
	05/05/92	71	16	6	3.1	14	10 ^a	NA	—
	07/28/92	68	21	5.5	3.4	15	18 ^a	ND	—
	07/28/92 ^{dup}	70	17	5	2.7	13	19 ^a	ND	—
	10/27/92	53	18	3.7	3.4	11	1.3	NA	—
	10/27/92 ^{dup}	48	17	3.6	3.1	9.9	2.5 ^a	NA	—
	01/15/93	84	17	5.4	3	13	22 ^a	ND	—
	04/23/93	100	18	7.8	4.7	20	23 ^a	ND	—
	07/20/93	41 ^d	12 ^d	0.87 ^d	1.5 ^d	4.4 ^d	3.1 ^a	NA	—
	10/18/93	33	14	1.2	2	4.9	8.1 ^a	0.96	—
	10/18/93 ^{dup}	44	14	1.2	2	4.9	3.7 ^a	0.67	—
	01/06/94	71	9	0.87	1.6	5.1	9 ^a	ND	—
	04/12/94	42	6.6	0.17	2.3	4.7	5.9	2.5	—
	04/12/94 ^{dup}	40	6.3	0.18	2	4.4	4.7	2.2	—
	07/25/94	13	4.4	0.11	0.46	1.4	7.0 ^a	ND	—
	10/26/94	19	5.5	0.21	0.88	2	3.9	ND	—
	01/11/95	37	6.7	0.8	2.8	8.9	8.8 ^a	ND	—
	04/11/95	26	4.7	0.27	1.8	3.4	5.5	ND	—
	07/19/95	57	7.5	0.88	4.1	11	7.0	NC	—
	07/19/95 ^{dup}	46	6.0	0.67	3.2	7.5	6.6	NC	—
	01/09/96	37	5.4	0.45	2.6	7.4	3.2	ND	10
MW-2	02/16/89	20	0.2	0.9	2.7	9.6	NA	NA	—
	05/23/89	1.5	0.0043	0.0029	0.011	0.15	1.6	NA	—
	08/04/89	15	0.075	0.12	0.85	2.2	7.4	NA	—
	12/15/89	5	0.052	0.013	0.0041	0.29	2.6	NA	—
	02/07/90	13	0.032	0.034	0.23	0.64	4.8	NA	—
	04/18/90	9.8	0.033	0.019	0.46	1.7	3.2	NA	—
	07/24/90	9.6	0.041	0.027	0.54	0.94	2.7	NA	—
	10/01/90	0.39	0.0034	0.015	0.0085	0.025	1.6	NA	—
	01/02/91	1.8	0.056	0.0044	0.0048	0.092	0.83	NA	—
	04/09/91	1.9	ND	0.028	0.14	0.49	0.28	NA	—
	07/11/91	8.1	0.089	0.066	0.35	0.93	1.1	NA	—
	10/08/91	1.4	0.0051	0.0015	0.036	0.27	2.6	NA	—
	02/06/92	2	0.0078	0.0025	0.13	0.21	5.4 ^a	NA	—
	05/05/92	21 ^b	ND ^b	ND ^b	0.3 ^b	0.96 ^b	1	NA	—
	07/28/92	2.1	0.0077	0.0033	0.13	0.31	0.83 ^a	0.32	—
	10/27/92	1.1	0.016	0.0031	0.0045	0.025	0.53	NA	—
	01/15/93 ⁺	0.29	0.0052	0.0031	0.0084	0.021	0.17 ^b	NA	—
	04/23/93	2.4	ND	ND	0.21	0.61	1.2 ^a	ND	—
	07/21/93	0.44	0.0017	0.0017	0.015	0.038	0.13	NA	—
	10/18/93	2.1	ND	ND	0.09	0.11	1.6 ^a	0.51	—
	01/06/94	1.9 ^a	ND ^a	0.0067 ^a	0.0071 ^a	0.012 ^a	0.13	ND	—
	04/12/94	0.12	ND	ND	0.0034	0.0043	0.13	0.17	—
	07/25/94	0.18 ^f	0.0053 ^f	ND ^f	0.0062 ^f	0.0082 ^f	0.28 ^a	ND	—
	10/26/94	0.17	ND	ND	ND	ND	0.4	ND	—

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California

Well Number	Date Sampled	TPPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TEPH (ppm)	TPH as Motor Oil (ppm)	MTBE (ppm)
MW-3	01/11/95	ND	ND	ND	ND	ND	ND	ND	---
	04/11/95	ND	ND	ND	ND	ND	ND	ND	---
	07/19/95	0.25	0.0028	0.0005	0.012	0.013	0.16	NC	---
	01/09/96	0.79	0.0051	0.0015	0.0024	0.0046	0.13	ND	1.4
	02/16/89	60	5.5	0.2	3.2	5.2	NA	NA	---
	05/23/89	ND	ND	ND	ND	ND	1.5	NA	---
	08/04/89	2	0.12	0.012	ND	0.086	1.2	NA	---
	12/15/89	5.2	0.38	0.047	0.017	0.41	1.7	NA	---
	03/08/90	0.26	0.017	ND	0.0054	0.0025	0.23	NA	---
	04/19/90	0.26	ND	ND	ND	0.0094	ND	NA	---
	07/24/90	0.51	0.046	0.0012	ND	0.0093	0.21	NA	---
	09/28/90	0.46	0.0063	0.0017	ND	0.015	0.35	NA	---
	01/02/91	4.8	0.92	0.0088	ND	0.19	0.63	NA	---
	04/09/91	0.12	0.0012	0.0008	0.0035	0.021	0.06	NA	---
	07/11/91	0.43	0.012	ND	ND	0.0077	ND	NA	---
	10/08/91	0.77	0.14	0.0007	ND	0.053	0.56	NA	---
	02/06/91	0.5	0.074	0.0009	0.0052	0.0053	0.34 ^a	NA	---
	05/04/92	0.31	0.047	ND	0.017	0.016	0.29 ^a	NA	---
	07/28/92 ^{**}	0.78	0.13	ND	0.013	0.0042	0.1 ^a	0.12	---
	10/27/92 ^{**}	0.74	0.092	0.0028	0.0078	0.0096	0.069 ^a	0.1	---
01/15/93	ND	0.0024	ND	ND	ND	ND	0.12	---	
04/23/93	Well Inaccessible								
07/20/93	Well Inaccessible								
10/18/93	Well Inaccessible								
01/06/94	0.13	0.0017	ND	ND	0.00093	0.064	ND	---	
04/12/94	ND	0.00082	ND	ND	0.0007	0.075	0.086	---	
07/25/94	0.06 ^f	0.0028 ^f	ND ^f	ND ^f	0.0007 ^f	ND	ND	---	
10/26/94	0.07	ND	ND	ND	ND	0.1	ND	---	
01/11/95	ND	ND	ND	ND	ND	ND	ND	---	
04/11/95	ND	ND	ND	ND	ND	ND	ND	---	
07/19/95	ND	0.0028	ND	ND	ND	0.09	NC	---	
01/09/96	0.09	0.0017	<0.0005	<0.0005	<0.0005	0.09	ND	0.061	
MW-4	05/23/89	ND	ND	ND	ND	ND	ND	NA	---
	08/04/89	ND	ND	ND	ND	ND	ND	NA	---
	12/15/89	ND	ND	ND	ND	ND	ND	NA	---
	03/08/90	ND	ND	ND	ND	ND	ND	NA	---
	07/25/90	ND	ND	ND	ND	ND	ND	NA	---
	09/28/90	ND	ND	ND	ND	ND	ND	NA	---
	04/09/91	ND	ND	ND	ND	ND	ND	NA	---
	07/11/91	ND	ND	ND	ND	ND	ND	NA	---
	10/08/91	ND	ND	ND	ND	ND	ND	NA	---
	02/06/92	0.12	ND	ND	ND	ND	2.5 ^a	NA	---
	05/04/92	ND	ND	ND	ND	ND	0.053	NA	---
	07/28/92	ND	ND	ND	ND	ND	0.06	ND	---
	10/27/92	ND	ND	ND	ND	ND	ND	NA	---
	01/14/93	ND	ND	ND	ND	ND	ND	0.12	---
	04/23/93	ND	ND	ND	ND	ND	ND	0.17	---
	07/21/93	ND	0.0022	0.0012	0.0011	0.0077	ND	NA	---
	10/18/93	ND	ND	ND	ND	ND	ND	0.2	---
	01/06/94	ND	ND	ND	ND	ND	ND	ND	---
	04/13/94	ND	ND	ND	ND	ND	0.076	0.39	---
	07/26/94	ND	ND	ND	ND	ND	ND	ND	---
10/26/94	ND	ND	ND	ND	ND	ND	ND	---	
01/11/95	ND	ND	ND	ND	ND	0.07 ^{b,g}	ND	---	
04/11/95	ND	0.0015	0.0034	0.0006	0.0034	0.14	ND	---	
07/19/95	ND	0.013	ND	ND	ND	0.16	NC	---	
01/09/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	ND	

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California

Well Number	Date Sampled	TPPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TEPH (ppm)	TPH as Motor Oil (ppm)	MTBE (ppm)
MW-5	05/23/89	26	1.5	0.28	ND	8.1	7	NA	---
	08/05/89	12	0.86	0.094	ND	2.6	8.7	NA	---
	12/15/89	1	0.022	0.035	0.018	0.044	0.71	NA	---
	02/08/90	ND	0.0008	ND	ND	ND	0.62	NA	---
	04/19/90	19	4.5	0.85	0.097	8	5	NA	---
	07/24/90	23	3.6	0.4	0.16	6.5	2.7	NA	---
	09/28/90	5.4	1.4	0.026	0.013	1.3	0.55	NA	---
	01/02/91	0.86	0.28	0.0028	0.0008	0.045	0.56	NA	---
	04/09/91	12	0.71	0.13	0.5	2.4	1.8	NA	---
	07/11/91	24	2.2	0.28	0.43	5.7	1.7	NA	---
	10/08/91	2.8	0.86	0.013	ND	0.58	1.4	NA	---
	02/06/92	1	0.3	ND	0.014	0.062	1.2	NA	---
	05/05/92	10	1.5	0.35	0.71	2.3	4.1 ^a	NA	---
	07/28/92	12	2.2	0.063	1.4	3.5	3.8 ^a	1.2	---
	10/27/92	7.5	1.1	0.059	0.23	0.9	0.48 ^a	NA	---
	01/15/93	7.7	0.42	0.049	0.57	0.84	1.1 ^c	0.43	---
	04/23/93	110	2.9	2.5	3.4	12	16 ^a	ND	---
	07/21/93	18 ^d	1.4 ^d	0.084 ^d	1.5 ^d	3.2 ^d	1.2 ^a	NA	---
	10/18/93	14	2	0.1	2.3	5.1	5.8 ^a	0.86	---
	01/06/94	81	11	9.3	3.6	12	11 ^a	ND	---
	04/12/94	17	2.9	0.38	0.43	1.3	4.1	2.2	---
	07/25/94	5.9	1.5	0.042	0.034	0.17	5.4 ^a	ND	---
	10/26/94	2.3	0.035	0.0028	ND	0.0081	1.9 ^a	720	---
01/11/95	8.3	1.5	0.095	0.33	1.9	3.7 ^c	ND	---	
04/11/95	7.3	1.2	0.23	0.6	0.55	9.8	ND	---	
07/19/95	17	2.3	0.73	0.77	2.5	5.1	NC	---	
MW-6	05/23/89	22	0.016	0.0065	0.0066	3.4	7	NA	---
	08/04/89	28	1.2	0.13	2.1	2.8	8.8	NA	---
	12/15/89	16	0.37	0.092	0.2	0.18	5.5	NA	---
	02/07/90	22	0.52	0.085	0.63	0.77	2.6	NA	---
	04/18/90	21	0.9	0.077	2.7	2.7	5.7	NA	---
	07/24/90	24	1	0.094	3.4	2.7	3	NA	---
	10/01/90	22	0.7	0.093	2.5	2.4	ND	NA	---
	01/02/91	25	1	0.088	2.6	3.7	0.96	NA	---
	04/09/91	18	0.56	0.19	0.48	0.83	0.92	NA	---
	07/11/91	9.5	0.67	0.051	1.1	0.92	1.9	NA	---
	10/08/91	11	1	0.043	ND	ND	5.1	NA	---
	02/06/92	7.2	0.56	0.008	0.72	0.16	15 ^a	NA	---
	05/05/92	7.9	0.61	ND	1.5	0.24	2.9 ^a	NA	---
	07/28/92	17	1.2	ND	3	0.61	3.2 ^a	ND	---
	10/27/92	15	1.3	0.13	1.7	0.49	1.3 ^a	NA	---
	01/14/93	4.9	0.08	0.031	0.33	0.037	1.6 ^a	ND	---
	04/23/93	4.8	0.12	ND	0.78	0.073	1.8 ^a	ND	---
	07/20/93	19 ^d	0.57 ^d	0.018 ^d	1.1 ^d	0.13 ^d	0.91 ^a	NA	---
	10/18/93	24	0.77	0.44	1.6	0.83	2.5 ^a	0.83	---
	01/06/94	20 ^d	0.45 ^d	0.03 ^d	0.53 ^d	0.052 ^d	2.3a ^a	ND	---
	04/12/94	3.6	0.15	ND	0.34	0.021	1.6	0.58	---
	07/25/94	1.6	0.16	ND	ND	0.01	2.2 ^a	ND	---
	07/25/94 ^{dup}	1	0.16	ND	ND	0.018	2.4 ^a	ND	---
10/26/94	9.8	0.39	0.022	0.3	0.057	3.0 ^a	ND	---	
01/09/95	2.2	0.074	0.012	0.4	0.039	0.8 ^a	ND	---	
04/11/95	5	0.33	0.015	0.76	0.085	7.7	ND	---	
07/19/95	4.2	0.32	0.011	0.49	0.022	1.7	NC	---	
01/09/96	5.6	0.059	<0.005	0.18	0.012	0.79	ND	14	
MW-7	05/23/89	47	3.5	5	1.5	7.8	11	NA	---
	08/04/89	68	6.2	6.6	3.6	8.8	22	NA	---
	12/15/89	100	4.5	5.3	1.3	5.3	12	NA	---
	02/08/90	96	15	15	2.5	14	8.1	NA	---

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California

Well Number	Date Sampled	TPPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TEPH (ppm)	TPH as Motor Oil (ppm)	MTBE (ppm)
	04/19/90	94	25	13	3.3	13	10	NA	—
	07/24/90	84	3.8	26	13	3	12	NA	—
	09/28/90	43	25	6.1	2.4	9	ND	NA	—
	01/02/91	78	26	16	3	14	3.1	NA	—
	04/09/91	140	26	16	2.2	14	1.8	NA	—
	07/11/91	79	7.7	7.2	2.3	10	1.1	NA	—
	10/08/91	55	29	7.5	1.8	9.3	0.39 ^a	NA	—
	02/06/92	63	16	8.7	1.6	7.4	9.6 ^a	NA	—
	05/05/92	67	22	13	1.8	9.4	9.8 ^a	NA	—
	07/28/92	85	26	17	2.9	15	13 ^a	ND	—
	10/27/92	63	21	11	3	11	1.9 ^a	NA	—
	01/14/93	120	28	21	1.6	15	2.3 ^a	NA	—
	04/23/93	60	17	3.7	2.2	11	12 ^a	ND	—
	04/23/93 ^{dup}	50	17	4.2	2.2	11	14 ^a	ND	—
	07/21/93	47	23	9.9	2.2	12	13	NA	—
	10/18/93	44	22	3.8	2.6	10	10 ^a	1	—
	01/06/94	85	16	4.9	1.9	8.5	5.2 ^a	ND	—
	04/12/94	68	12	2	0.58	6.4	3.4	0.75	—
	07/25/94	63	16	5.8	0.3	8.3	4.2 ^a	ND	—
	10/26/94	46	16	3.7	1.2	7.3	3.8 ^a	ND	—
	01/11/95	62	24	8.5	1.1	9.4	3.3 ^c	ND	—
	01/11/95 ^{dup}	57	9.5	7.9	0.62	8	3.2 ^d	ND	—
	04/12/95	53	13	4.2	1.5	7.7	7	ND	—
	04/12/95 ^{dup}	55	11	3.7	1.3	6.4	7.6	ND	—
	07/19/95	95	24	8.0	2.1	12	2.7	NC	—
MW-8	05/23/89	ND	ND	ND	ND	ND	0.1	NA	—
	08/04/89	ND	ND	ND	ND	ND	0.075	NA	—
	12/15/89	ND	ND	ND	ND	ND	ND	NA	—
	03/08/90	ND	ND	ND	ND	ND	ND	NA	—
	07/25/90	ND	ND	ND	ND	ND	ND	NA	—
	09/28/90	ND	ND	ND	ND	ND	1.1	NA	—
	01/02/91	ND	0.0013	ND	ND	ND	ND	NA	—
	04/09/91	0.05	0.0007	0.0011	0.0008	0.001	ND	NA	—
	07/11/91	ND	ND	ND	ND	ND	ND	NA	—
	10/08/91	ND	0.0014	ND	ND	ND	ND	NA	—
	02/06/92	ND	ND	0.0007	ND	ND	0.06 ^a	NA	—
	05/04/92	ND	ND	ND	ND	ND	0.21 ^b	NA	—
	07/28/92	0.051	ND	ND	0.001	0.0006	ND	0.15	—
	10/27/92	ND	ND	0.0066	ND	ND	ND	NA	—
	01/14/93	ND	ND	ND	ND	ND	0.064 ^b	NA	—
	01/14/93 ^{dup}	ND	ND	ND	ND	ND	NA	NA	—
	04/23/93	ND	ND	ND	ND	ND	ND	0.15	—
	07/21/93	ND	0.0007	0.0007	0.0008	0.0041	ND	NA	—
	10/18/93	ND	ND	0.8	ND	ND	ND	0.17	—
	01/06/94	ND	ND	ND	ND	ND	ND	ND	—
	04/13/94	ND	ND	ND	ND	ND	ND	0.22	—
	07/26/94	ND	ND	ND	ND	ND	ND	ND	—
	10/26/94	ND	ND	0.001	ND	ND	ND	ND	—
	01/11/95	ND	ND	ND	ND	ND	0.07 ^{b,a}	ND	—
	04/11/95	ND	0.00063	0.0013	ND	0.00075	0.078	ND	—
	07/19/95	ND	ND	ND	ND	ND	0.13	NC	—
	01/09/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	ND
MW-9	08/04/89	47	5.6	6.6	1.5	8.5	12	NA	—
	12/15/89	88	4.3	5.4	0.14	5.8	9.2	NA	—
	02/08/90	50	1.8	1.4	3.2	1.8	7.4	NA	—
	04/19/90	50	14	11	0.73	10	7.5	NA	—
	07/24/90	62	19	16	0.95	15	3.2	NA	—
	09/28/90	30	16	6.5	0.98	11	2.7	NA	—

Table 2
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

Shell Service Station
 285 Hegenberger Road at Leet Drive
 Oakland, California

Well Number	Date Sampled	TPPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TEPH (ppm)	TPH as Motor Oil (ppm)	MTBE (ppm)
	01/02/91	34	9.2	3.2	0.77	7	2.5	NA	---
	04/09/91	66	17	13	1.4	14	2.2	NA	---
	07/11/91	40	7.7	3.2	1.1	9.4	2	NA	---
	10/08/91	20	11	0.64	0.24	6	4.7 ^a	NA	---
	02/06/92	36	11	0.49	1.1	6.7	6.6 ^a	NA	---
	05/05/92	31	11	1.7	1.2	8.7	5.8 ^a	NA	---
	07/28/92	50	17	1.2	1.5	12	14	ND	---
	10/27/92	43	15	0.68	1.7	8.1	0.88 ^a	NA	---
	01/15/93	52	9.6	1.1	1.1	7	0.73 ^a	NA	---
	04/23/93	45	11	1.4	1.5	10	8 ^a	0.15	---
	07/21/93	25	10	0.32	1.1	7.1	5.1	NA	---
	10/18/93	32	14	0.53	2	10	4.9 ^a	NA	---
	01/06/94	41	15	0.81	1.4	9	7.7 ^a	NA	---
	01/06/94 ^{dup}	43	15	0.92	1.3	8	8.3 ^a	NA	---
	04/13/94	39	8.3	ND	ND	4	2	0.22	---
	07/26/94	22	7.5	0.15	ND	4.1	3.6 ^a	ND	---
	10/26/94	31	13	0.24	1	8.5	3.2 ^a	ND	---
	10/26/94 ^{dup}	31	13	0.22	1.1	8.3	3.5 ^a	NA	---
	01/11/95	4.8	1.2	0.51	0.042	1.4	2.3 ^c	ND	---
	04/12/95	20	5.1	0.46	0.4	3.4	3.4	ND	---
	07/19/95	43	12	1.8	0.96	9.1	2.9	NC	---
	01/09/96	64	12	5.4	1.8	10	2.8	ND	2.1
MW-10	12/15/89	ND	1.5	ND	ND	ND	3.1	NA	---
	03/08/90	25	17	0.33	2.1	1.4	1.8	NA	---
	04/19/90	23	15	1.2	0.19	3.3	3.6	NA	---
	07/25/90	18	12	0.38	ND	1.4	1.9	NA	---
	09/28/90	9.5	13	0.1	1.8	0.23	0.43	NA	---
	01/02/91	4.3	3.7	0.0097	ND	0.11	0.63	NA	---
	04/09/91	45	16	4.6	3	6.9	1.4	NA	---
	07/11/91	ND	ND	ND	ND	ND	ND	NA	---
	10/08/91	3.8	13	0.082	0.0091	0.5	1.5 ^a	NA	---
	02/06/92	22	12	ND	0.6	0.17	1.6 ^a	NA	---
	05/05/92	39	14	5	1.8	5	8 ^a	NA	---
	07/28/92	38	17	2.8	1.5	4	8.7 ^a	ND	---
	10/27/92	Well Inaccessible							
	01/14/93	26	10	ND	ND	0.16	0.95 ^c	0.2	---
	04/23/93	80	21	13	3.4	12	19 ^a	ND	---
	07/21/93	31	14	4.2	1.7	5.5	4.8	NA	---
	10/18/93	13	8.6	0.22	ND	0.45	1.2 ^a	0.61	---
	01/06/94	16	9.7	<0.125	<0.125	0.21	0.67 ^a	0.62	---
	04/13/94	16	5.6	ND	ND	ND	0.86	0.27	---
	07/25/94	2.3	1.4	0.026	0.025	0.051	2.1 ^a	ND	---
	10/26/94	1.4	0.29	0.005	0.0017	0.038	1.0 ^a	ND	---
	01/11/95	16	7.5	1.4	0.23	1.5	2.3 ^c	ND	---
	04/11/95	54	13	4.5	1.5	4.5	5	ND	---
	07/19/95	72	20	7.2	2.8	9	2.6	NC	---
	01/09/96	32	8	1.6	0.88	3.2	2.1	ND	12
MW-11	07/20/93	0.05	0.0025	0.0019	0.0039	0.018	ND	NA	---
	10/18/93	ND	ND	ND	ND	ND	0.065	0.26	---
	01/06/94	ND	ND	ND	ND	ND	ND	ND	---
	04/13/94	ND	0.0011	0.00087	ND	0.0015	ND	ND	---
	07/25/94	ND	ND	ND	ND	ND	ND	ND	---
	10/26/94	ND	ND	ND	ND	ND	0.1	ND	---
	01/11/95	ND	ND	ND	ND	ND	ND	ND	---
	04/11/95	ND	ND	0.0007	ND	0.0005	0.14	ND	---
	07/19/95	ND	ND	ND	ND	ND	0.050	NC	---
	01/09/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	ND

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California

Well Number	Date Sampled	TPPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TEPH (ppm)	TPH as Motor Oil (ppm)	MTBE (ppm)
MW-12	07/20/93	ND	0.0028	0.0019	0.0032	ND	0.015	NA	—
	10/18/93	ND	ND	ND	ND	ND	ND	0.12	—
	01/06/94	ND	ND	ND	ND	ND	ND	ND	—
	04/13/94	ND	0.00061	ND	ND	0.0011	ND	ND	—
	07/25/94	ND	ND	ND	ND	ND	ND	ND	—
	10/26/94	ND	ND	ND	ND	ND	ND	ND	—
	01/09/95	ND	ND	ND	ND	ND	0.080 ^b	ND	—
	04/11/95	ND	ND	ND	ND	ND	0.2	ND	—
	07/19/95	ND	ND	ND	ND	ND	0.090	NC	—
	01/09/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	ND
MW-13	07/21/93	ND	ND	ND	ND	ND	0.0015	NA	—
	07/21/93 ^{dup}	ND	ND	ND	ND	ND	0.001	NA	—
	10/18/93	ND	ND	ND	ND	ND	ND	0.1	—
	01/06/94	ND	ND	ND	ND	ND	ND	ND	—
	04/13/94	ND	0.0017	0.0012	0.00059	0.0024	0.1	0.072	—
	07/25/94	ND	ND	ND	ND	ND	ND	ND	—
	10/26/94	ND	ND	ND	ND	ND	ND	ND	—
	01/09/95	ND	ND	ND	ND	ND	ND	ND	—
	04/11/95	ND	ND	ND	ND	ND	0.32	ND	—
	07/19/95	ND	ND	ND	ND	ND	ND	NC	—
01/09/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	ND	

Abbreviations:

- TPPH = Total purgeable petroleum hydrocarbons
- TEPH = Total extractable petroleum hydrocarbons
- ppm = Parts per million
- ND = Not detected
- NA = Not analyzed
- NR = Not reported
- NC = Analyses included in TEPH (C10-C26).
- dup = Duplicate sample
- + = TPH as diesel analysis from April 8, 1993.
- * = Sampled August 4, 1994.
- ** = Also analyzed for oil and grease; results ND

Laboratory noted the following:

- a. Compound detected and calculated as TPH as diesel primarily appears to be due to a lighter petroleum product.
 - b. Compound detected and calculated as diesel appears to be a heavier hydrocarbon compound.
 - c. Compound detected as TPH as diesel is due to the presence of a combination of a heavier petroleum product and a lighter petroleum product.
 - d. Compound detected as gasoline is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
 - e. Compound detected as gasoline is due to the presence of a discrete peak not indicative of gasoline.
 - f. Result has an atypical gasoline pattern.
 - g. Result is an unknown hydrocarbon that consists of a single peak.
- Prior to June 1995, TPPH was calculated as gasoline and TEPH was calculated as diesel and motor oil. See individual certified analytical reports for detection limits.

Table 3
Soil Vapor Extraction System Performance Data

Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California

Sample ID	Date Sampled	Hourmeter Reading (hrs)	Flow Rate (scfm)	TPPH			Benzene		
				Influent Concentration (ppmv)	Removal Rate (lbs/day)	Removed to Date (lbs)	Influent Concentration (ppmv)	Removal Rate (lbs/day)	Removed to Date (lbs)
INFL 08/30/93		6,248	34	7,801	99.35	0.00	123.63	1.29	0.00
INFL 08/31/93		6,250	37	2,364	33.52	5.54	28.46	0.33	0.07
INFL 09/01/93		6,260	30	3,073	35.17	19.85	48.88	0.46	0.23
INFL 09/02/93		6,269	46	2,080	36.62	33.31	54.63	0.79	0.47
INFL 09/08/93		6,361	25	591	5.64	114.30	27.31	0.21	2.39
INFL 09/14/93		6,502 ^a	29	780	8.48	155.78	13.80	0.12	3.38
INFL 10/27/93		1,190.00 ^b	85	121	3.90	155.78	1.52	0.04	3.38
INFL 10/28/93		1,213.57	85	187	6.03	160.66	5.18	0.14	3.47
INFL 10/29/93		1,328.37	87	187	6.18	189.86	4.03	0.11	4.06
INFL 11/11/93		1,511.20	90	260	8.90	247.28	5.46	0.15	5.06
INFL 11/22/93		1,779.22	74	194	5.45	327.41	ND	0.00	5.92
INFL 12/09/93		2,183.44	68	35	0.92	381.06	ND	0.00	5.92
INFL 01/11/94		2,591.27	60	165	3.77	420.92	ND	0.00	5.92
INFL 01/27/94		2,976.94	74	151	4.26	485.44	ND	0.00	5.92
INFL 02/10/94		3,199.56	67	31	0.78	508.81	ND	0.00	5.92
INFL 03/02/94		3,678.57	60	12	0.28	519.42	0.58	0.01	6.03
INFL 03/09/94		3,688.03	70	50	1.32	519.74	0.12	0.00	6.03
INFL 03/24/94		4,051.56	48	43	0.78	535.63	0.78	0.01	6.14
INFL 04/11/94		4,482.67	42	ND	0.00	542.60	ND	0.00	6.25
INFL 04/21/94		4,662.97	45	12	0.20	543.35	ND	0.00	6.25
INFL 05/10/94		5,114.89	40	24	0.36	548.60	0.08	0.00	6.26
INFL 06/08/94		5,187.80	40 ^c	111	1.69	551.71	ND	0.00	6.26
INFL 06/21/94		5,500.70	64	92	2.24	577.35	ND	0.00	6.26
INFL 06/28/94		5,531.03 ^d	50	78	1.48	579.70	ND	0.00	6.26
INFL 09/13/94		6,481.00 ^e	65	284	7.01	579.70	1.5	0.03	6.26
INFL 09/20/94		6,644.00	56	92	1.96	610.17	0.60	0.01	6.40
INFL 09/28/94		6,841.00	50	69	1.30	623.57	0.35	0.01	6.46
INFL 10/11/94		7,155.00	48	40	0.73	636.90	ND	0.00	6.50
INFL 10/31/94		7,631.00	60	61	1.40	658.07	ND	0.00	6.50
INFL 11/10/94		7,871.33	50	402	7.64	703.34	4.6	0.07	6.86
INFL 11/23/94		7,883.71	44	3.1 ^f	0.05	705.32	ND ^f	0.00	6.88
INFL 12/13/94		8,367.43	35	ND	0.00	705.84	ND	0.00	6.88
INFL 12/27/94		8,699.00	30	7.8	0.09	706.46	ND	0.00	6.88
INFL 01/10/95		9,019.51	43	ND	0.00	707.05	ND	0.00	6.88
INFL 02/09/95		9,743.77	57	ND	0.00	707.05	ND	0.00	6.88
TOTAL POUNDS TPPH REMOVED:						707.05			
TOTAL GALLONS TPPH REMOVED:						115.91			
TOTAL POUNDS BENZENE REMOVED:						6.88			
TOTAL GALLONS BENZENE REMOVED:						0.94			
TPPH = Total purgeable petroleum hydrocarbons hrs = Hours scfm = Standard cubic feet per minute ppmv = Parts per million by volume lbs = Pounds ND = Not detected See certified analytical reports for detection limits.				a. Internal combustion engine shut down 09/14/94. b. King-Buck Cat-Ox start-up on 10/27/93. c. Estimated flow rate. d. System temporarily shut down June 28, 1994; King-Buck Cat-Ox removed to different site. e. Cat-Ox installation and startup on 09/13/94. f. Samples taken on December 1, 1994.					
Prior to June 1995, TPPH was reported as TPH calculated as gasoline.									

Table 4
 Vapor-Phase Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH and BTEX Compounds)

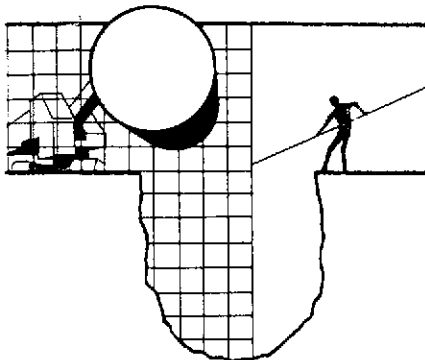
Shell Service Station
 285 Hegenberger Road at Leet Drive
 Oakland, California

Well Number	Date Sampled	TPPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)
VEW-1	08/30/93	140,000	3,300	860	1,400	3,400
	09/14/93	53,000	1,000	850	57	1,900
	10/27/93	26,000	660	450	300	1,300
	12/22/93	5.3	ND	0.097	0.11	0.75
	09/13/94	23,000	190	ND	59	120
	10/31/94	680	ND	0.88	ND	3.5
VEW-2	08/30/93	21,000	ND	ND	180	190
	09/14/93	4,200	23	26	8.0	250
	10/27/93	1,400	ND	ND	8.0	13
	12/22/93	ND	ND	ND	ND	0.25
	09/13/94	2,600	ND	ND	5.2	ND
	10/31/94	670	1.8	ND	1.9	1.7
VEW-3	08/30/93	41,000	ND	62	510	390
	09/14/93	3,100	ND	6.4	14	79
	10/27/93	3,000	ND	ND	49	45
	12/22/93	ND	ND	ND	ND	0.27
	09/13/94	1,200	3.0	ND	5.4	1.8
	10/31/94	750	ND	ND	ND	ND
VEW-4	08/30/93	12,000	ND	ND	74	98
	09/14/93	5,200	ND	27	ND	160
	10/27/93	1,100	ND	4.0	10	22
	12/22/93	NS	NS	NS	NS	NS
	09/13/94	1,400	ND	ND	2.9	ND
	10/31/94	320	1.2	ND	1.1	0.95
VEW-5	08/30/93	120,000	ND	200	1,900	1,500
	09/14/93	3,500	ND	ND	21	64
	10/27/93	9,400	ND	ND	100	71
	12/22/93	150	ND	ND	ND	0.25
	09/13/94	3,600	5.7	ND	8.0	ND
	10/31/94	960	3.2	ND	ND	2.4

TPPH = Total purgeable petroleum hydrocarbons
 µg/L = Micrograms per liter
 ND = Not detected
 NS = Not sampled
 Prior to June 1995, TPPH was reported as TPH calculated as gasoline.

ATTACHMENT A

BTS GROUND WATER MONITORING REPORT



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

February 2, 1996

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: R. Jeff Granberry

Shell WIC #204-5508-5504
285 Hegenberger Road
Oakland, California

1st Quarter 1996

Quarterly Groundwater Monitoring Report 960109-D-1

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,

Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	1/9/96	TOC	ODOR	NONE	-	-	2.95	9.28
MW-2	1/9/96	TOC	-	NONE	-	-	4.75	9.52
MW-3	1/9/96	TOC	-	NONE	-	-	4.96	9.38
MW-4	1/9/96	TOC	-	NONE	-	-	3.82	10.00
MW-5	1/9/96	UNABLE TO LOCATE						
MW-6	1/9/96	TOC	-	NONE	-	-	4.75	10.90
MW-7	1/9/96	UNABLE TO LOCATE						
MW-8	1/9/96	TOC	-	NONE	-	-	5.09	9.83
MW-9	1/9/96	TOC	ODOR	NONE	-	-	4.36	10.62
MW-10 *	1/9/96	TOC	ODOR	NONE	-	-	5.92	9.95
MW-11	1/9/96	TOC	-	NONE	-	-	8.22	13.77
MW-12	1/9/96	TOC	-	NONE	-	-	6.32	14.50
MW-13	1/9/96	TOC	-	NONE	-	-	7.74	14.25

* Sample DUP was a duplicate sample taken from well MW-10.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

#9821
Date: 1-10-96
Page 1 of 2

Silo Address: 285 Hegenberger Road, Oakland
WICK: 204-5508-5504

Shell Engineer: Don Kirk R. Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6160

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: MIKE D.

Printed Name: MIKE DILLOUGHERY

Analysis Required

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 6441		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6441		48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/> 6442		15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 6462		NOTE: Holly Lab as soon as possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/> 6463		
Other <input type="checkbox"/>		

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
					<u>NOTA OIL</u>				
	X				X				
	X				X				
	X				X				
	X				X				
	X				X				
	X				X				
	X				X				
	X				X				
	X				X				

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.
<u>MW-1</u>	<u>1-10</u>			<u>W</u>		<u>7</u>
<u>MW-2</u>	<u>1-9</u>					<u>7</u>
<u>MW-3</u>	<u>1-9</u>					<u>6</u>
<u>MW-4</u>	<u>1-9</u>					<u>7</u>
<u>MW-6</u>	<u>1-10</u>					<u>7</u>
<u>MW-8</u>	<u>1-9</u>					<u>7</u>
<u>MW-9</u>	<u>1-10</u>					<u>7</u>
<u>MW-10</u>	<u>1-10</u>					<u>7</u>

CUSTODY SEALED

Date: 1-11-96 Time: 16:30 Initials: BS

SEAL INTACT?

Yes No Initials: BS

Relinquished By (Signature): [Signature]
Printed Name: MIKE DILLOUGHERY
Date: 1-11-96
Time: 1440

Received (Signature): [Signature]
Printed Name: [Name]
Date: 1-11-96
Time: 1630

Relinquished By (Signature): [Signature]
Printed Name: P. Smart
Date: 1-11-96
Time: 1455

Received (Signature): [Signature]
Printed Name: PAM GREENE
Date: 1-12-96
Time: 08:00

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

VIA AIR



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 960109-D1

Date: 1-10-96

Page 2 of 2

Silo Address: 285 Hegenberger Road, Oakland

WIC#: 204-5508-5504

Shell Engineer: Ben Kirk R. Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6160

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Commons:

Sampled by: MIKE D

Printed Name: MIKE DILLOUGHNEY

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
MW-11	1-9			W		7	X					X X				
MW-12	1-9					7	X					X X				
MW-13	1-9					7	X					X X				
EB	1-9					7	X					X X				
DUP	1-10					7	X					X X				

Analysis Required

LAB: NET

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Cleanup/Disposal <input type="checkbox"/>	6442	16 days <input checked="" type="checkbox"/> (Normal)
Water Cleanup/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Syst. O & M <input type="checkbox"/>	6462	
Water Rem. or Syst. O & M <input type="checkbox"/>	6463	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.

MATERIAL DESCRIPTION

SAMPLE CONDITION/ COMMENTS

CUSTODY SEALED

Date: 1/11/96 Time: 16:30 Initials: B

SEAL INTACT?

Yes No Initials: [Signature]

Relinquished by (signature): [Signature] Printed Name: MIKE DILLOUGHNEY
Date: 1-11-96 Time: 1440
Relinquished by (signature): [Signature] Printed Name: P. Smart
Date: 1-11-96 Time: 16:30
Relinquished by (signature): _____ Printed Name: _____
Date: _____ Time: _____

Received (signature): [Signature] Printed Name: P. Smart Date: 1-11-96 Time: 1445
Received (signature): [Signature] Printed Name: PAM GREENE Date: 1-12-96 Time: 08:00
Received (signature): _____ Printed Name: _____ Date: _____ Time: _____

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

VIA NCS



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

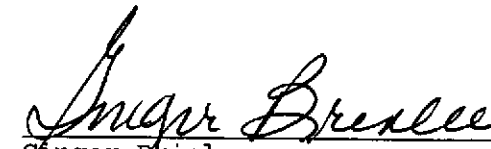
Date: 01/26/1996
NET Client Acct. No: 1821
NET Job No: 96.00126-A
Received: 01/12/1996

Client Reference Information

Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:



Ginger Brinlee
Project Coordinator

Enclosure(s)



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00126-A

Date: 01/26/1996
ELAP Cert: 1386
Page: 2

Ref: Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

SAMPLE DESCRIPTION: MW-1

Date Taken: 01/10/1996

NET Sample No: 258668

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/17/1996	3477
DILUTION FACTOR*	200							01/17/1996	3477
Methyl-tert-butyl ether	10,000		400		ug/L	8020		01/23/1996	3492
SURROGATE RESULTS	--							01/17/1996	3477
Bromofluorobenzene (SURR)	98				% Rec.	8020		01/17/1996	3477

SAMPLE DESCRIPTION: MW-2

Date Taken: 01/09/1996

NET Sample No: 258669

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/17/1996	3477
DILUTION FACTOR*	100							01/17/1996	3477
Methyl-tert-butyl ether	1,400		200		ug/L	8020		01/23/1996	3492
SURROGATE RESULTS	--							01/17/1996	3477
Bromofluorobenzene (SURR)	95				% Rec.	8020		01/17/1996	3477

SAMPLE DESCRIPTION: MW-3

Date Taken: 01/09/1996

NET Sample No: 258670

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/17/1996	3477
DILUTION FACTOR*	1							01/17/1996	3477
Methyl-tert-butyl ether	61		2		ug/L	8020		01/17/1996	3477
SURROGATE RESULTS	--							01/17/1996	3477
Bromofluorobenzene (SURR)	86				% Rec.	8020		01/17/1996	3477

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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Client Acct: 1821
NET Job No: 96.00126-A

Date: 01/26/1996
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Ref: Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

SAMPLE DESCRIPTION: MW-4

Date Taken: 01/09/1996

NET Sample No: 258671

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020	01/17/1996	3477	
DILUTION FACTOR*	1						01/17/1996	3477	
Methyl-tert-butyl ether	ND		2		ug/L	8020	01/17/1996	3477	
SURROGATE RESULTS	--						01/17/1996	3477	
Bromofluorobenzene (SURR)	92				% Rec.	8020	01/17/1996	3477	

SAMPLE DESCRIPTION: MW-6

Date Taken: 01/10/1996

NET Sample No: 258672

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020	01/17/1996	3477	
DILUTION FACTOR*	200						01/17/1996	3477	
Methyl-tert-butyl ether	14,000		400		ug/L	8020	01/23/1996	3492	
SURROGATE RESULTS	--						01/17/1996	3477	
Bromofluorobenzene (SURR)	93				% Rec.	8020	01/17/1996	3477	

SAMPLE DESCRIPTION: MW-8

Date Taken: 01/09/1996

NET Sample No: 258673

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020	01/17/1996	3477	
DILUTION FACTOR*	1						01/17/1996	3477	
Methyl-tert-butyl ether	ND		2		ug/L	8020	01/17/1996	3477	
SURROGATE RESULTS	--						01/17/1996	3477	
Bromofluorobenzene (SURR)	89				% Rec.	8020	01/17/1996	3477	

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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Client Acct: 1821
NET Job No: 96.00126-A

Date: 01/26/1996
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Ref: Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

SAMPLE DESCRIPTION: MW-9

Date Taken: 01/10/1996

NET Sample No: 258674

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
								No.	
8020 (GC, Liquid)	--					8020	01/23/1996	3492	
DILUTION FACTOR*	100						01/23/1996	3492	
Methyl-tert-butyl ether	2,100		200	ug/L	8020		01/23/1996	3492	
SURROGATE RESULTS	--						01/23/1996	3492	
Bromofluorobenzene (SURR)	108			% Rec.	8020		01/23/1996	3492	

SAMPLE DESCRIPTION: MW-10

Date Taken: 01/10/1996

NET Sample No: 258675

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
								No.	
8020 (GC, Liquid)	--					8020	01/24/1996	3492	
DILUTION FACTOR*	100						01/24/1996	3492	
Methyl-tert-butyl ether	12,000		200	ug/L	8020		01/24/1996	3492	
SURROGATE RESULTS	--						01/24/1996	3492	
Bromofluorobenzene (SURR)	111			% Rec.	8020		01/24/1996	3492	

SAMPLE DESCRIPTION: MW-11

Date Taken: 01/09/1996

NET Sample No: 258676

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
								No.	
8020 (GC, Liquid)	--					8020	01/17/1996	3477	
DILUTION FACTOR*	1						01/17/1996	3477	
Methyl-tert-butyl ether	ND		2	ug/L	8020		01/17/1996	3477	
SURROGATE RESULTS	--						01/17/1996	3477	
Bromofluorobenzene (SURR)	91			% Rec.	8020		01/17/1996	3477	

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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Client Acct: 1821
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SAMPLE DESCRIPTION: MW-12

Date Taken: 01/09/1996

NET Sample No: 258677

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/17/1996	3477
DILUTION FACTOR*	1							01/17/1996	3477
Methyl-tert-butyl ether	ND		2		ug/L	8020		01/17/1996	3477
SURROGATE RESULTS	--							01/17/1996	3477
Bromofluorobenzene (SURR)	92				% Rec.	8020		01/17/1996	3477

SAMPLE DESCRIPTION: MW-13

Date Taken: 01/09/1996

NET Sample No: 258678

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/17/1996	3477
DILUTION FACTOR*	1							01/17/1996	3477
Methyl-tert-butyl ether	ND		2		ug/L	8020		01/17/1996	3477
SURROGATE RESULTS	--							01/17/1996	3477
Bromofluorobenzene (SURR)	95				% Rec.	8020		01/17/1996	3477

SAMPLE DESCRIPTION: EB

Date Taken: 01/09/1996

NET Sample No: 258679

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/17/1996	3477
DILUTION FACTOR*	1							01/17/1996	3477
Methyl-tert-butyl ether	ND		2		ug/L	8020		01/17/1996	3477
SURROGATE RESULTS	--							01/17/1996	3477
Bromofluorobenzene (SURR)	109				% Rec.	8020		01/17/1996	3477

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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SAMPLE DESCRIPTION: DUP

Date Taken: 01/10/1996

NET Sample No: 258680

<u>Parameter</u>	<u>Results</u>	<u>Flags</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Method</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Run Batch No.</u>
8020 (GC, Liquid)	--				8020		01/24/1996	3492
DILUTION FACTOR*	100						01/24/1996	3492
Methyl-tert-butyl ether	11,000		200	ug/L	8020		01/24/1996	3492
SURROGATE RESULTS	--						01/24/1996	3492
Bromofluorobenzene (SRR)	110			% Rec.	8020		01/24/1996	3492

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch
	Standard % Recovery	Standard Amount Found					
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	106.0	0.53	0.50	mg/L	01/17/1996	dld	3477
Benzene	91.8	4.59	5.00	ug/L	01/17/1996	dld	3477
Toluene	94.8	4.74	5.00	ug/L	01/17/1996	dld	3477
Ethylbenzene	93.6	4.68	5.00	ug/L	01/17/1996	dld	3477
Xylenes (Total)	95.3	14.3	15.0	ug/L	01/17/1996	dld	3477
Bromofluorobenzene (SURR)	99.0	99	100	% Rec.	01/17/1996	dld	3477
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	102.0	0.51	0.50	mg/L	01/23/1996	aal	3492
Benzene	101.6	5.08	5.00	ug/L	01/23/1996	aal	3492
Toluene	99.2	4.96	5.00	ug/L	01/23/1996	aal	3492
Ethylbenzene	103.6	5.18	5.00	ug/L	01/23/1996	aal	3492
Xylenes (Total)	104.7	15.7	15.0	ug/L	01/23/1996	aal	3492
Bromofluorobenzene (SURR)	108.0	108	100	% Rec.	01/23/1996	aal	3492

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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Client Acct: 1821
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METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
	Amount	Limit			Analyzed	Initials	Number
	Found						
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/17/1996	dld	3477
Benzene	ND	0.5		ug/L	01/17/1996	dld	3477
Toluene	ND	0.5		ug/L	01/17/1996	dld	3477
Ethylbenzene	ND	0.5		ug/L	01/17/1996	dld	3477
Xylenes (Total)	ND	0.5		ug/L	01/17/1996	dld	3477
Methyl-tert-butyl ether	ND	2		ug/L	01/17/1996	dld	3477
Bromofluorobenzene (SURR)	95			% Rec.	01/17/1996	dld	3477
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/23/1996	aal	3492
Benzene	ND	0.5		ug/L	01/23/1996	aal	3492
Toluene	ND	0.5		ug/L	01/23/1996	aal	3492
Ethylbenzene	ND	0.5		ug/L	01/23/1996	aal	3492
Xylenes (Total)	ND	0.5		ug/L	01/23/1996	aal	3492
Methyl-tert-butyl ether	ND	2		ug/L	01/23/1996	aal	3492
Bromofluorobenzene (SURR)	102			% Rec.	01/23/1996	aal	3492

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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Date: 01/26/1996

Client Acct: 1821

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix				Matrix				Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Spike Dup. Conc.						
5030/8015-M/8020 Shell+MTBE													258669
Purgeable TPH	92.0	94.0	2.2	0.50	0.79	1.25	1.26		mg/L	01/17/1996	3477		258669
Benzene	95.9	95.9	0.0	7.61	5.1	12.4	12.4		ug/L	01/17/1996	3477		258669
Toluene	92.5	93.7	1.3	25.4	1.5	25.0	25.3		ug/L	01/17/1996	3477		258669
5030/8015-M/8020 Shell+MTBE													258879
Purgeable TPH	102.0	102.0	0.0	0.50	ND	0.51	0.51		mg/L	01/23/1996	3492		258879
Benzene	101.0	100.9	0.1	6.83	ND	6.90	6.89		ug/L	01/23/1996	3492		258879
Toluene	101.7	101.3	0.4	23.9	ND	24.3	24.2		ug/L	01/23/1996	3492		258879

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

COOLER RECEIPT FORM

Project: 960109-D1 Log No: 9821
Cooler received on: 11/2/96 and checked on 11/2/96 by [Signature]
(signature)

- Were custody papers present?.....YES NO
 - Were custody papers properly filled out?.....YES NO
 - Were the custody papers signed?.....YES NO
 - Was sufficient ice used?.....YES NO
 - Did all bottles arrive in good condition (unbroken)?.....YES NO
 - Did bottle labels match COC?.....YES NO
 - Were proper bottles used for analysis indicated?.....YES NO
 - Correct preservatives used?.....YES NO
 - VOA vials checked for headspace bubbles?.....YES NO
- Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #
_____	_____
_____	_____
_____	_____
_____	_____

(coolerrec)



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
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Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 01/26/1996
NET Client Acct. No: 1821
NET Job No: 96.00126
Received: 01/12/1996

Client Reference Information

Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:



Ginger Brinlee
Project Coordinator

Enclosure (s)



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00126

Date: 01/26/1996
ELAP Cert: 1386
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Ref: Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

SAMPLE DESCRIPTION: MW-1

Date Taken: 01/10/1996

Time Taken:

NET Sample No: 258668

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run Batch No.
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	10						01/17/1996		3477
Purgeable TPH	37,000		500		ug/L	8015	01/17/1996		3477
Carbon Range: C6 to C12	--					8015	01/17/1996		3477
8020 (GC, Liquid)	--					8020	01/17/1996		3477
Benzene	5,400	FG	100		ug/L	8020	01/23/1996		3492
Toluene	450		5		ug/L	8020	01/17/1996		3477
Ethylbenzene	2,600	FG	100		ug/L	8020	01/23/1996		3492
Xylenes (Total)	7,400	FG	100		ug/L	8020	01/23/1996		3492
SURROGATE RESULTS	--						01/17/1996		3477
Bromofluorobenzene (SURR)	98				‡ Rec.	8020	01/17/1996		3477
3510/8015-M (Shell)									
DILUTION FACTOR*	1						01/19/1996		1158
Extractable TPH	3,200		50		ug/L	3510/M8015	01/19/1996		1158
Carbon range: C9 to C24	--						01/19/1996		1158
as Motor Oil	ND		500		ug/L	M8015	01/19/1996		1158

SAMPLE DESCRIPTION: MW-2

Date Taken: 01/09/1996

Time Taken:

NET Sample No: 258669

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run Batch No.
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	1						01/17/1996		3477
Purgeable TPH	790		50		ug/L	8015	01/17/1996		3477
Carbon Range: C6 to C12	--					8015	01/17/1996		3477
8020 (GC, Liquid)	--					8020	01/17/1996		3477
Benzene	5.1		0.5		ug/L	8020	01/17/1996		3477
Toluene	1.5		0.5		ug/L	8020	01/17/1996		3477
Ethylbenzene	2.4		0.5		ug/L	8020	01/17/1996		3477
Xylenes (Total)	4.6		0.5		ug/L	8020	01/17/1996		3477
SURROGATE RESULTS	--						01/17/1996		3477
Bromofluorobenzene (SURR)	95				‡ Rec.	8020	01/17/1996		3477
3510/8015-M (Shell)									
DILUTION FACTOR*	1						01/19/1996		1158
Extractable TPH	130		50		ug/L	3510/M8015	01/19/1996		1158
Carbon range: C9 to C24	--						01/19/1996		1158
as Motor Oil	ND		500		ug/L	M8015	01/19/1996		1158

FG : Compound quantitated at a 200X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services

Date: 01/26/1996

Client Acct: 1821

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NET Job No: 96.00126

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Ref: Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

SAMPLE DESCRIPTION: MW-3

Date Taken: 01/09/1996

Time Taken:

NET Sample No: 258670

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	1							01/17/1996	3477
Purgeable TPH	90		50		ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--					8015		01/17/1996	3477
8020 (GC, Liquid)	--					8020		01/17/1996	3477
Benzene	1.7		0.5		ug/L	8020		01/17/1996	3477
Toluene	ND		0.5		ug/L	8020		01/17/1996	3477
Ethylbenzene	ND		0.5		ug/L	8020		01/17/1996	3477
Xylenes (Total)	ND		0.5		ug/L	8020		01/17/1996	3477
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	86				% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)									
DILUTION FACTOR*	1						01/19/1996		
Extractable TPH	90		50		ug/L	3510/M8015		01/19/1996	1158
Carbon range: C9 to C24	--							01/19/1996	1158
as Motor Oil	ND		500		ug/L	M8015		01/19/1996	1158

SAMPLE DESCRIPTION: MW-4

Date Taken: 01/09/1996

Time Taken:

NET Sample No: 258671

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	1							01/17/1996	3477
Purgeable TPH	ND		50		ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--					8015		01/17/1996	3477
8020 (GC, Liquid)	--					8020		01/17/1996	3477
Benzene	ND		0.5		ug/L	8020		01/17/1996	3477
Toluene	ND		0.5		ug/L	8020		01/17/1996	3477
Ethylbenzene	ND		0.5		ug/L	8020		01/17/1996	3477
Xylenes (Total)	ND		0.5		ug/L	8020		01/17/1996	3477
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	92				% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)									
DILUTION FACTOR*	1						01/19/1996		
Extractable TPH	ND		50		ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--							01/19/1996	1160
as Motor Oil	ND		500		ug/L	M8015		01/19/1996	1160

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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 Client Acct: 1821
 NET Job No: 96.00126

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Ref: Shell 285 Hegenberger Rd., Oakland, CA/960109-D1

SAMPLE DESCRIPTION: MW-6
 Date Taken: 01/10/1996
 Time Taken:
 NET Sample No: 258672

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	10						01/17/1996	3477
Purgeable TPH	5,600		500	ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--				8015		01/17/1996	3477
8020 (GC, Liquid)	--				8020		01/17/1996	3477
Benzene	59		5	ug/L	8020		01/17/1996	3477
Toluene	ND		5	ug/L	8020		01/17/1996	3477
Ethylbenzene	180		5	ug/L	8020		01/17/1996	3477
Xylenes (Total)	12		5	ug/L	8020		01/17/1996	3477
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	93			% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)								
DILUTION FACTOR*	1					01/19/1996		
Extractable TPH	790		50	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1160

SAMPLE DESCRIPTION: MW-8
 Date Taken: 01/09/1996
 Time Taken:
 NET Sample No: 258673

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/17/1996	3477
Purgeable TPH	ND		50	ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--				8015		01/17/1996	3477
8020 (GC, Liquid)	--				8020		01/17/1996	3477
Benzene	ND		0.5	ug/L	8020		01/17/1996	3477
Toluene	ND		0.5	ug/L	8020		01/17/1996	3477
Ethylbenzene	ND		0.5	ug/L	8020		01/17/1996	3477
Xylenes (Total)	ND		0.5	ug/L	8020		01/17/1996	3477
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	89			% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)								
DILUTION FACTOR*	1					01/19/1996		
Extractable TPH	ND		50	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1160

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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SAMPLE DESCRIPTION: MW-9
 Date Taken: 01/10/1996
 Time Taken:
 NET Sample No: 258674

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/23/1996	3492
Purgeable TPH	64,000		5,000	ug/L	8015		01/23/1996	3492
Carbon Range: C6 to C12	--				8015		01/23/1996	3492
8020 (GC, Liquid)	--				8020		01/23/1996	3492
Benzene	12,000	FI	500	ug/L	8020		01/24/1996	3495
Toluene	5,400		50	ug/L	8020		01/23/1996	3492
Ethylbenzene	1,800		50	ug/L	8020		01/23/1996	3492
Xylenes (Total)	10,000		50	ug/L	8020		01/23/1996	3492
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	108			% Rec.	8020		01/23/1996	3492
3510/8015-M (Shell)								
DILUTION FACTOR*	1					01/19/1996		
Extractable TPH	2,800		50	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1160

SAMPLE DESCRIPTION: MW-10
 Date Taken: 01/10/1996
 Time Taken:
 NET Sample No: 258675

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/24/1996	3492
Purgeable TPH	32,000		5,000	ug/L	8015		01/24/1996	3492
Carbon Range: C6 to C12	--				8015		01/24/1996	3492
8020 (GC, Liquid)	--				8020		01/24/1996	3492
Benzene	8,000	FI	500	ug/L	8020		01/24/1996	3497
Toluene	1,600		50	ug/L	8020		01/24/1996	3492
Ethylbenzene	880		50	ug/L	8020		01/24/1996	3492
Xylenes (Total)	3,200		50	ug/L	8020		01/24/1996	3492
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	111			% Rec.	8020		01/24/1996	3492
3510/8015-M (Shell)								
DILUTION FACTOR*	1					01/19/1996		
Extractable TPH	2,100		50	ug/L	3510/M8015		01/19/1996	1158
Carbon range: C9 to C24	--						01/19/1996	1158
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1158

FI : Compound quantitated at a 1000X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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SAMPLE DESCRIPTION: MW-11
Date Taken: 01/09/1996
Time Taken:
NET Sample No: 258676

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/17/1996	3477
Purgeable TPH	ND		50	ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--				8015		01/17/1996	3477
8020 (GC, Liquid)	--				8020		01/17/1996	3477
Benzene	ND		0.5	ug/L	8020		01/17/1996	3477
Toluene	ND		0.5	ug/L	8020		01/17/1996	3477
Ethylbenzene	ND		0.5	ug/L	8020		01/17/1996	3477
Xylenes (Total)	ND		0.5	ug/L	8020		01/17/1996	3477
SURROGATE RESULTS	--						01/17/1996	3477
Bromofluorobenzene (SURR)	91			% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)						01/19/1996		
DILUTION FACTOR*	1						01/19/1996	1160
Extractable TPH	ND		50	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1160

SAMPLE DESCRIPTION: MW-12
Date Taken: 01/09/1996
Time Taken:
NET Sample No: 258677

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/17/1996	3477
Purgeable TPH	ND		50	ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--				8015		01/17/1996	3477
8020 (GC, Liquid)	--				8020		01/17/1996	3477
Benzene	ND		0.5	ug/L	8020		01/17/1996	3477
Toluene	ND		0.5	ug/L	8020		01/17/1996	3477
Ethylbenzene	ND		0.5	ug/L	8020		01/17/1996	3477
Xylenes (Total)	ND		0.5	ug/L	8020		01/17/1996	3477
SURROGATE RESULTS	--						01/17/1996	3477
Bromofluorobenzene (SURR)	92			% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)						01/19/1996		
DILUTION FACTOR*	1						01/19/1996	1160
Extractable TPH	ND		50	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1160

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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SAMPLE DESCRIPTION: MW-13

Date Taken: 01/09/1996

Time Taken:

NET Sample No: 258678

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/17/1996	3477
Purgeable TPH	ND		50	ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--				8015		01/17/1996	3477
8020 (GC, Liquid)	--				8020		01/17/1996	3477
Benzene	ND		0.5	ug/L	8020		01/17/1996	3477
Toluene	ND		0.5	ug/L	8020		01/17/1996	3477
Ethylbenzene	ND		0.5	ug/L	8020		01/17/1996	3477
Xylenes (Total)	ND		0.5	ug/L	8020		01/17/1996	3477
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	95			% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)								
DILUTION FACTOR*	1					01/19/1996		
Extractable TPH	ND		50	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1160

SAMPLE DESCRIPTION: EB

Date Taken: 01/09/1996

Time Taken:

NET Sample No: 258679

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/17/1996	3477
Purgeable TPH	ND		50	ug/L	8015		01/17/1996	3477
Carbon Range: C6 to C12	--				8015		01/17/1996	3477
8020 (GC, Liquid)	--				8020		01/17/1996	3477
Benzene	ND		0.5	ug/L	8020		01/17/1996	3477
Toluene	ND		0.5	ug/L	8020		01/17/1996	3477
Ethylbenzene	ND		0.5	ug/L	8020		01/17/1996	3477
Xylenes (Total)	ND		0.5	ug/L	8020		01/17/1996	3477
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	109			% Rec.	8020		01/17/1996	3477
3510/8015-M (Shell)								
DILUTION FACTOR*	1					01/19/1996		
Extractable TPH	ND		50	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		500	ug/L	M8015		01/19/1996	1160

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	106.0	0.53	0.50		mg/L	01/17/1996	dld	3477
Benzene	91.8	4.59	5.00		ug/L	01/17/1996	dld	3477
Toluene	94.8	4.74	5.00		ug/L	01/17/1996	dld	3477
Ethylbenzene	93.6	4.68	5.00		ug/L	01/17/1996	dld	3477
Xylenes (Total)	95.3	14.3	15.0		ug/L	01/17/1996	dld	3477
Bromofluorobenzene (SURR)	99.0	99	100		% Rec.	01/17/1996	dld	3477
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	102.0	0.51	0.50		mg/L	01/23/1996	aal	3492
Benzene	101.6	5.08	5.00		ug/L	01/23/1996	aal	3492
Toluene	99.2	4.96	5.00		ug/L	01/23/1996	aal	3492
Ethylbenzene	103.6	5.18	5.00		ug/L	01/23/1996	aal	3492
Xylenes (Total)	104.7	15.7	15.0		ug/L	01/23/1996	aal	3492
Bromofluorobenzene (SURR)	108.0	108	100		% Rec.	01/23/1996	aal	3492
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	100.0	0.50	0.50		mg/L	01/24/1996	aal	3495
Benzene	89.6	4.48	5.00		ug/L	01/24/1996	aal	3495
Toluene	87.8	4.39	5.00		ug/L	01/24/1996	aal	3495
Ethylbenzene	93.0	4.65	5.00		ug/L	01/24/1996	aal	3495
Xylenes (Total)	93.3	14.0	15.0		ug/L	01/24/1996	aal	3495
Bromofluorobenzene (SURR)	94.0	94	100		% Rec.	01/24/1996	aal	3495
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	102.0	0.51	0.50		mg/L	01/24/1996	aal	3497
Benzene	95.2	4.76	5.00		ug/L	01/24/1996	aal	3497
Toluene	91.8	4.59	5.00		ug/L	01/24/1996	aal	3497
Ethylbenzene	96.8	4.84	5.00		ug/L	01/24/1996	aal	3497
Xylenes (Total)	97.3	14.6	15.0		ug/L	01/24/1996	aal	3497
Bromofluorobenzene (SURR)	104.0	104	100		% Rec.	01/24/1996	aal	3497
3510/8015-M (Shell)								
Extractable TPH	105.0	1050	1000		mg/L	01/19/1996	tts	1158
as Motor Oil	103.0	1030	1000		mg/L	01/19/1996	tts	1158
3510/8015-M (Shell)								
Extractable TPH	111.0	1110	1000		mg/L	01/19/1996	tts	1160
as Motor Oil	91.8	918	1000		mg/L	01/19/1996	tts	1160

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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SAMPLE DESCRIPTION: DUP

Date Taken: 01/10/1996

Time Taken:

NET Sample No: 258680

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100							
Purgeable TPH	33,000		5,000	ug/L	8015		01/24/1996	3492
Carbon Range: C6 to C12	--				8015		01/24/1996	3492
8020 (GC, Liquid)	--				8020		01/24/1996	3492
Benzene	8,200	FI	500	ug/L	8020		01/24/1996	3497
Toluene	1,900		50	ug/L	8020		01/24/1996	3492
Ethylbenzene	920		50	ug/L	8020		01/24/1996	3492
Xylenes (Total)	3,400		50	ug/L	8020		01/24/1996	3492
SURROGATE RESULTS	--						01/24/1996	3492
Bromofluorobenzene (SURR)	110			% Rec.	8020		01/24/1996	3492
3510/8015-M (Shell)						01/19/1996		
DILUTION FACTOR*	10						01/19/1996	1160
Extractable TPH	2,900		500	ug/L	3510/M8015		01/19/1996	1160
Carbon range: C9 to C24	--						01/19/1996	1160
as Motor Oil	ND		5,000	ug/L	M8015		01/19/1996	1160

FI : Compound quantitated at a 1000X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [(Value 1 - Value 2)]/mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 501 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

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LABORATORY CONTROL SAMPLE REPORT

Parameter	DUP		LCS Amount Found	DUP		Flags	Units	Date Analyzed	Analyst Initials	Run Batch
	LCS ‡ Rec.	LCS ‡ Rec.		LCS Amount Found	LCS Amount Found					
3510/8015-M (Shell)										
Extractable TPH	61.3		0.613		1.00		mg/L	01/19/1996	tts	1158

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entire

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Matrix Spike				Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Conc.					
5030/8015-M/8020 Shell+MTBE													258669
Purgeable TPH	92.0	94.0	2.2	0.50	0.79	1.25	1.26		mg/L	01/17/1996	3477		258669
Benzene	95.9	95.9	0.0	7.61	5.1	12.4	12.4		ug/L	01/17/1996	3477		258669
Toluene	92.5	93.7	1.3	25.4	1.5	25.0	25.3		ug/L	01/17/1996	3477		258669
5030/8015-M/8020 Shell+MTBE													258879
Purgeable TPH	102.0	102.0	0.0	0.50	ND	0.51	0.51		mg/L	01/23/1996	3492		258879
Benzene	101.0	100.9	0.1	6.83	ND	6.90	6.89		ug/L	01/23/1996	3492		258879
Toluene	101.7	101.3	0.4	23.9	ND	24.3	24.2		ug/L	01/23/1996	3492		258879
5030/8015-M/8020 Shell+MTBE													259229
Purgeable TPH	104.0	100.0	3.9	0.50	ND	0.52	0.50		mg/L	01/24/1996	3495		259229
Benzene	101.3	96.6	4.6	4.64	ND	4.70	4.48		ug/L	01/24/1996	3495		259229
Toluene	101.8	93.8	8.1	22.5	ND	22.9	21.1		ug/L	01/24/1996	3495		259229
5030/8015-M/8020 Shell+MTBE													258923
Purgeable TPH	100.0	102.0	2.0	0.5	0.05	0.55	0.56		mg/L	01/24/1996	3497		258923
Benzene	101.8	104.2	2.3	6.70	ND	6.82	6.98		ug/L	01/24/1996	3497		258923
Toluene	98.7	101.3	2.5	23.7	ND	23.4	24.0		ug/L	01/24/1996	3497		258923
3510/8015-M (Shell)													258660
Extractable TPH	87.5	97.5	10.8	2.00	ND	1.75	1.95		mg/L	01/19/1996	1158		258660

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
	Found						Number
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/17/1996	dld	3477
Benzene	ND	0.5		ug/L	01/17/1996	dld	3477
Toluene	ND	0.5		ug/L	01/17/1996	dld	3477
Ethylbenzene	ND	0.5		ug/L	01/17/1996	dld	3477
Xylenes (Total)	ND	0.5		ug/L	01/17/1996	dld	3477
Bromofluorobenzene (SURR)	95			% Rec.	01/17/1996	dld	3477
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/23/1996	aal	3492
Benzene	ND	0.5		ug/L	01/23/1996	aal	3492
Toluene	ND	0.5		ug/L	01/23/1996	aal	3492
Ethylbenzene	ND	0.5		ug/L	01/23/1996	aal	3492
Xylenes (Total)	ND	0.5		ug/L	01/23/1996	aal	3492
Bromofluorobenzene (SURR)	102			% Rec.	01/23/1996	aal	3492
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/24/1996	aal	3495
Benzene	ND	0.5		ug/L	01/24/1996	aal	3495
Toluene	ND	0.5		ug/L	01/24/1996	aal	3495
Ethylbenzene	ND	0.5		ug/L	01/24/1996	aal	3495
Xylenes (Total)	ND	0.5		ug/L	01/24/1996	aal	3495
Bromofluorobenzene (SURR)	88			% Rec.	01/24/1996	aal	3495
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/24/1996	aal	3497
Benzene	ND	0.5		ug/L	01/24/1996	aal	3497
Toluene	ND	0.5		ug/L	01/24/1996	aal	3497
Ethylbenzene	ND	0.5		ug/L	01/24/1996	aal	3497
Xylenes (Total)	ND	0.5		ug/L	01/24/1996	aal	3497
Bromofluorobenzene (SURR)	110			% Rec.	01/24/1996	aal	3497
3510/8015-M (Shell)							
Extractable TPH	ND	0.05		mg/L	01/19/1996	tts	1158
as Motor Oil	ND	0.5		mg/L	01/19/1996	tts	1158

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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