CAMBRIA

December 2, 1998

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

Re: **Third Quarter 1998 Monitoring Report**
Shell-branded Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #24-314-398

Dear Ms. Hugo:

On behalf of Equilon Enterprises LLC (Equilon), Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

THIRD QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California re-developed all accessible site wells, checked for separate-phase hydrocarbons (SPH), and gauged and sampled the accessible site wells (Figure 1). No SPH were detected this quarter. Cambria summarized SPH removal (Table 1), calculated ground water elevations (Table 2), compiled the analytical data (Table 3), and prepared a ground water elevation contour map (Figure 1). The Blaine report, describing these sampling activities and presenting the laboratory report, is included as Attachment A.

Station Renovations: Renovations at the above-referenced Shell-branded service station have been completed, and the facility is now operational and will be used as a service station and youth employment training center.

Well Head Survey: Cambria contracted Virgil Chavez Surveying of Vallejo, California to re-survey well head elevations for selected wells. The results are presented as Attachment B.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite 8
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ANTICIPATED FOURTH QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine will measure and remove detected SPH, gauge, and sample selected monitoring wells, and tabulate the data. Cambria will prepare a monitoring report.

Station Renovations: Ground water monitoring wells will be installed to replace wells MW-3 and MW-6 that were destroyed after onsite construction activities are complete. We will keep you updated on the well replacement schedule.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-0700 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Darryk Ataide
Project Environmental Scientist

Diane M. Lundquist, P.E.
Principal Engineer

Attachment : A - Blaine Ground Water Monitoring Report
B - Chavez Surveying Results

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749

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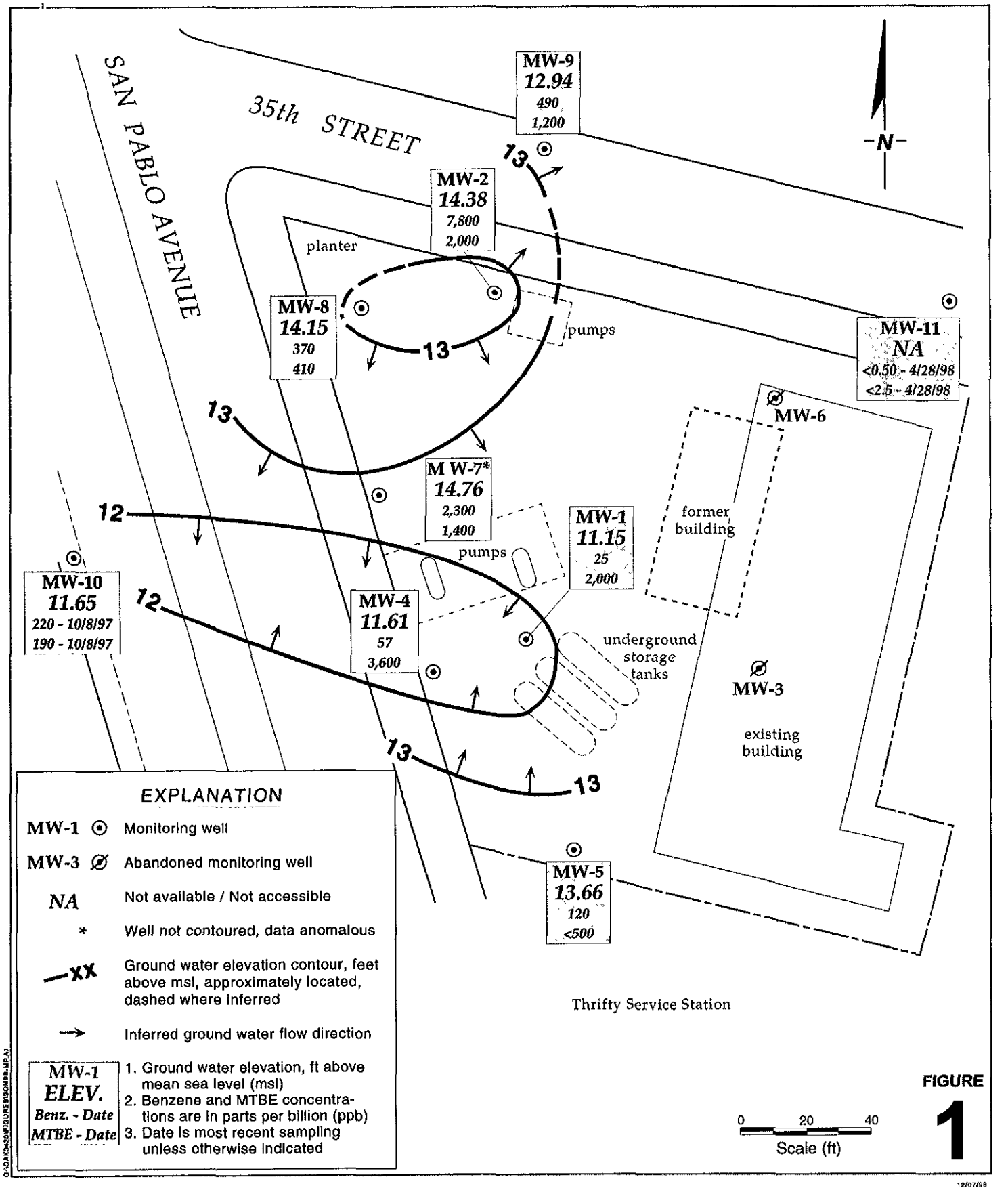

Shell-branded Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306

CAMBRIA

Ground Water Elevation Contours

September 30, 1998

Table 1. **Separate-Phase Hydrocarbon Removal** – Shell-branded 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	0.03
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
MW-7	01/20/94	0.05	---	---
	04/13/94	0.16	0.66	0.66

Table 1. **Separate-Phase Hydrocarbon Removal** – Shell-branded 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)
	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
	10/31/95	0.04	0.80	2.93
	01/17/96	0.04	0.09	3.02
	04/10/96	0.05	---	3.02
	07/03/96	0.03	---	3.02
	10/17/96	0.02	0.16	3.18
	07/14/97	0.03	0.16	3.34
	10/08/97	0.01	---	3.34
	Total Separate-Phase Hydrocarbons Removed			20.17

Notes and Abbreviations:

ft = Feet
lbs = Pounds
--- = Not available
Weight of separate-phase hydrocarbons converted from volume using the relation: 1 liter gasoline = 1.61 pounds

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Table 2. **Ground Water Elevations** – Shell-branded 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 below TOC))	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
	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
	10/11/91		9.48	---	11.80
	01/17/96		6.48	---	14.80
	04/10/96		5.38	---	15.90
	07/30/96		7.61	---	13.67
	10/17/96		8.66	---	12.62
	01/22/97		5.00	---	16.28
	04/01/97		6.42	---	14.86
	07/14/97		8.92	---	12.36
	10/08/97		9.43	---	11.85
	01/19/98		1.20	---	20.08
	04/28/98		4.81	---	16.47
	09/30/98	**21.05[d]**	**9.90**	**---**	**11.15**
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

Table 2. **Ground Water Elevations** – Shell-branded 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 below TOC))	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	06/30/95		7.41	---	14.15
	10/11/95		8.02	---	13.54
	01/17/96		7.42	---	14.14
	04/10/96		6.91	---	14.65
	07/30/96		7.63	---	13.93
	10/17/96		8.28	---	13.29
	01/22/97		7.09	---	14.47
	04/01/97		6.91	---	14.65
	07/14/97		9.93	---	11.63
	10/08/97		10.43	---	11.13
	01/19/98		3.60	---	17.96
	04/28/98		5.85	---	15.71
	09/30/98	**21.58[d]**	**7.20**	**---**	**14.38**
MW-3[c]	08/06/91	21.78	11.18	---	10.60
(Abandoned)	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
	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
	10/11/95		10.62	---	11.16
	01/17/96		7.18	---	14.60
	04/10/96		6.76	---	15.02
	07/30/96		9.04	---	12.74
	10/17/96		9.04	---	12.74
	01/22/97		5.03	---	16.75
	04/01/97		8.23	---	13.55
	07/14/97		9.09	---	12.69
	10/08/97		10.23	---	11.55
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

Table 2. **Ground Water Elevations** – Shell-branded 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 below TOC))	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	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
	10/11/95		10.30	---	10.01
	01/17/96		6.68	---	13.63
	04/10/96		7.90	---	12.41
	07/30/96		8.73	---	11.58
	10/17/96		9.97	---	10.34
	01/22/97		5.26	---	15.05
	04/01/97		8.02	---	12.29
	07/14/97		10.05	---	10.26
	10/08/97		10.22	---	10.09
	01/19/98[b]		---	---	---
	04/28/98[b]		---	---	---
	09/30/98	**20.92[d]**	**9.31**	**---**	**11.61**
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
	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
	01/03/95		5.84	---	15.07
	04/13/95		5.28	---	15.63
	06/30/95		7.43	---	13.48
	10/11/95		8.90	---	12.01
	01/17/96		6.40	---	14.51
	04/10/96		5.70	---	15.21
	07/30/96		7.71	---	13.20

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Table 2. **Ground Water Elevations** – Shell-branded 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 below TOC))	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	10/17/96		9.04	---	11.87
	01/22/97		4.85	---	16.06
	04/01/97		6.54	---	14.37
	07/14/97		8.54	---	12.37
	10/08/97		9.09	---	11.82
	01/19/98		2.11	---	18.80
	04/28/98		4.90	---	16.01
	09/30/98	21.71[d]	8.05	---	13.66
MW-6[c] (Abandoned)	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
	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
	10/11/95		10.06	---	12.26
	01/17/96		6.91	---	15.41
	04/10/96		5.92	---	16.40
	07/30/96		8.97	---	13.35
	10/17/96		9.87	---	12.45
	01/22/97		4.43	---	17.89
	04/01/97		6.84	---	15.48
	07/14/97		10.30	---	12.02
	10/08/97		10.46	---	11.86
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

Table 2. **Ground Water Elevations** – Shell-branded 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 below TOC))	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	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
	10/11/95		7.88	0.04	12.51
	01/17/96		7.26	0.04	13.13
	04/10/96		6.98	0.05	13.42
	07/30/96		7.34	0.03	13.04
	10/17/96		7.63	0.02	12.75
	01/22/97		6.46	---	13.90
	04/01/97		6.97	---	13.39
	07/14/97		8.90	0.03	11.48
	10/08/97		9.21	0.01	11.15
	01/19/98		4.65	---	15.71
	04/28/98		6.53	---	13.83
	09/30/98	**20.35[d]**	**5.59**	**---**	**14.76**
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
	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
	10/11/95		7.06	---	13.89
	01/17/96		5.84	---	15.11
	04/10/96		5.03	---	15.92
	07/30/96		6.36	---	14.59
	10/17/96		5.94	---	15.01
	01/22/97		5.93	---	15.02
	04/01/97		6.24	---	14.71
	07/14/97		8.59	---	12.36
	10/08/97		9.04	---	11.91

Table 2. **Ground Water Elevations** – Shell-branded 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 below TOC))	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	01/19/98		3.34	---	17.61
	04/28/98[b]		---	---	---
	09/30/98	**21.15[d]**	**7.00**	**---**	**14.15**
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
	10/11/95		8.10	---	13.09
	01/17/96		5.75	---	15.44
	04/10/96		5.17	---	16.02
	07/30/96		8.10	---	13.09
	10/17/96		9.12	---	12.07
	01/22/97		4.72	---	16.47
	04/01/97		6.86	---	14.33
	07/14/97		10.04	---	11.15
	10/08/97		11.38	---	9.81
	01/19/98		3.88	---	17.31
	04/28/98		5.87	---	15.32
	09/30/98	**21.19[d]**	**8.25**	**---**	**12.94**
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
	04/13/94		7.57	---	12.17
	07/19/94		8.18	---	11.56

Table 2. **Ground Water Elevations** – Shell-branded 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 below TOC))	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl)[a]
	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
	10/11/95		---	---	---
	01/17/96		7.00	---	12.74
	07/30/96[b]		---	---	---
	10/17/96		---	---	---
	01/22/97		6.68	---	13.06
	04/01/97		7.34	---	12.40
	07/14/97		8.10	---	11.64
	10/08/97		8.20	---	11.54
	01/19/98[b]		---	---	---
	04/28/98[b]		---	---	---
	09/30/98	**19.76[d]**	**8.11**	**---**	**11.65**
MW-11	10/23/91	22.06	14.00	---	8.06
	01/28/92		8.74	---	3.32
	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
	10/11/95		10.30	---	11.76
	01/17/96		6.45	---	15.61
	04/10/96		6.05	---	16.01
	07/30/96		8.92	---	13.14
	10/17/96		9.24	---	12.82
	01/22/97		5.12	---	16.94
	04/01/97		7.41	---	14.65
	07/14/97		9.74	---	12.32
	10/08/97		10.23	---	11.83
	01/19/98		3.69	---	18.37
	04/28/98		5.83	---	16.23
	09/30/98[e]		**---**	**---**	**---**

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

Abbreviations and Notes:

a = When separate-phase hydrocarbons are present ground water elevation is adjusted using the relation:
Corrected ground water elevation = Top of casing elevation - depth to water + (0.8 x hydrocarbon thickness)
b = Well inaccessible
c = Well abandoned December 5, 1997
d = Well resurveyed August 28, 1998 by Virgil Chavez Surveying of Vallejo, California
e = Well paved over
--- = Not measured/Not available
ft = Feet
msl = Mean sea level
TOC= Top of casing

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
MW-1	08/06/91[SPH]	10.86	----	----	----	----	----	----	----
	10/23/91	11.05	32,000	2,700	360	550	3,700	----	----
	01/28/92	10.84	14,000	1,000	106	450	1,600	----	----
	05/05/92	9.42	98,000	11,000	1,200	3,500	18,000	----	----
	07/13/92	11.36	11,000	1,100	130	740	1,300	----	----
	10/12/92[SPH]	13.14	----	----	----	----	----	----	----
	01/12/93[SPH]	7.52	----	110	----	----	----	----	----
	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	140	530	1,300	----	----
	10/27/94	10.49	23,000	1,200	130	990	960	----	----
	01/03/95	6.15	31,000	610	160	1,200	5,000	----	----
	04/13/95	5.24	20,000	340	42	680	2,900	----	----
	06/3095	7.24	16,000	450	62	460	1,200	----	----
	10/11/95	9.48	8,400	660	47	510	850	8,000	----
	10/13/95	----	7.400	730	54	490	1,100	8,200	----
	01/17/96	6.48	24,000	570	110	820	2,900	15,000	----
	04/10/96	5.38	20,000	120	11	420	1,400	15,000	----
	07/30/96	7.61	7,900	240	22	170	300	12,000	----
	10/17/96	8.66	6,600	1,000	20	120	130	10,000	1.4
	01/22/97	5.00	13,000	170	<50	330	1,200	18,000	1.6
	04/01/97	6.42	7,900	240	26	130	200	6,400	1.4
	07/14/97	8.92	5,000	<20	<20	59	61	9,000	1.9
	10/08/97	9.43	3,200	180	7.6	18	6.1	11,000	4.8
	01/19/98	1.20	8,100	39	<20	280	660	1,100	2.6
	01/19/98[dup]	1.20	8,200	43	<20	280	660	1,100	2.6
	04/28/98	4.81	2,900	62	<10	160	370	1,200(1,200)	2.4[e]
	09/30/98	**9.90**	**1,300**	**25**	**8.3**	**<5.0**	**12**	**2,000**	**1.6**

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO
			← (Concentrations in µg/L) →						(mg/L)
MW-2	08/06/91	9.72	50,000	15,000	----	2,700	13,000	----	----
	10/23/91	10.03	120,000	11,000	1,400	3,500	19,000	----	----
	01/28/92	8.78	49,000	7,400	800	1,800	8,300	----	----
	05/05/92	7.58	52,000	12,000	1,100	2,200	12,000	----	----
	07/13/92	9.63	47,000	15,000	2,400	4,500	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	950	2,400	11,000	----	----
	10/13/93	10.28	54,000	14,000	1,200	3,700	22,000	----	----
	01/20/94	----	----	----	----	----	----	----	----
	04/13/94	7.35	79,000	9,400	740	2,100	12,000	----	----
	04/13/94[dup]	7.35	110,000	11,000	710	2,400	13,000	----	----
	07/19/94	8.24	63,000	13,000	810	1,900	13,000	----	----
	07/19/94[dup]	8.24	12,000	12,000	140	340	12,000	----	----
	10/27/94	10.26	64,000	8,800	480	2,100	10,000	----	----
	01/03/95	6.44	67,000	9,800	720	2,800	11,000	----	----
	01/03/95[dup]	6.44	58,000	9,700	620	2,700	12,000	----	----
	04/13/95	5.89	83,000	10,000	490	2,600	13,000	----	----
	04/13/95[dup]	5.89	74,000	9,500	350	2,100	11,000	----	----
	06/30/95	7.41	65,000	12,000	1,800	2,400	12,000	----	----
	10/11/95	8.02	68,000	8,800	840	3,000	13,000	1,400	----
	01/17/96	7.42	79,000	12,000	640	2,700	14,000	2,200	----
	01/17/96[dup]	7.42	78,000	12,000	920	2,500	12,000	2,500	----
	04/10/96	6.91	84,000	7,200	310	1,700	7,800	2,900	----
	07/30/96	7.63	26,000	6,800	210	1,300	5,500	4,500	----
	10/17/96	8.27	46,000	9,800	340	2,000	6,500	4,900	1.8
	01/22/97	7.09	52,000	6,200	220	1,400	6,600	3,000	1.9
	01/22/97[dup]	7.09	54,000	6,100	230	1,400	6,500	2,600	1.9
	04/01/97	6.91	69,000	6,000	380	2,400	11,000	3,800	2.0
	07/14/97	9.93	53,000	7,700	260	1,600	5,200	2,400	1.2

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			←		(Concentrations in µg/L)		→		
	07/14/97[dup]	9.93	59,000	8,700	400	1,900	6,900	2,700	1.2
	10/08/97	10.43	56,000	8,500	320	1,600	5,100	4,200	2.1
	10/08/97[dup]	10.43	53,000	8,300	330	1,600	5,200	2,900	2.1
	01/19/98	3.60	64,000	10,000	230	2,400	12,000	2,700	2.4
	04/28/98	4.81	45,000	9,800	310	2,700	11,000	2,400(2,000)	2.0[e]
	04/28/98[dup]	4.81	4,400	9,200	260	2,500	9,700	2,300	2.0[e]
	09/30/98	**7.20**	**42,000**	**7,400**	**200**	**2,600**	**9,800**	**1,800**	**1.6**
	09/30/98[dup]	**7.20**	**36,000**	**7,800**	**190**	**2,500**	**10,000**	**2,000**	**1.6**
MW-3[d]	08/06/91	11.18	430	8	1	4	15	----	----
(Abandoned)	10/23/91	11.69	390	2.10	<0.3	0.48	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	2.3	0.9	5.6	----	----
	01/12/93[dup]	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	----	----
	10/11/95	10.62	150	2.2	<0.5	<0.5	<0.5	2.3	----
	01/17/96	7.18	120	<0.5	<0.5	<0.5	<0.5	7.8	----
	04/10/96	6.76	160	<0.5	<0.5	<0.5	<0.5	12	----
	07/30/96	9.04	57	<0.5	<0.5	<0.5	<0.5	<2.5	----

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	10/17/96	9.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2.0
	01/22/97	5.03	<50	<0.5	<0.5	<0.5	<0.5	3.7	2.4
	04/01/97	8.23	71	<0.50	<0.50	<0.50	<0.50	---[c]	1.6
	07/14/97	9.09	<50	<0.50	<0.50	<0.50	1.5	---[c]	1.9
	10/08/97	*10.23*	*73*	*<0.50*	*<0.50*	*<0.50*	*<0.50*	---[c]	5.5
MW-4	08/06/91	10.57	1,300	28	18	68	150	----	----
	10/23/91	10.46	1,900	97	6.10	38	77	----	----
	01/28/92	9.54	200	7.60	<0.5	3	3.30	----	----
	05/04/92	8.33	690	98	3	13	<1	----	----
	07/13/92	9.87	1,500	140	2.90	17	12	----	----
	07/13/92[dup]	9.87	870	95	1.90	10	7.10	----	----
	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	43	230	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	<0.5	160	350	----	----
	10/11/95	10.30	3,000	29	10	100	82	9,700	----
	01/17/96	6.68	9,700	190	<0.5	190	410	4,500	----
	04/10/96	7.90	2,800	16	<0.5	22	50	6,100	----
	07/30/96	8.73	1,600	68	<12	58	39	8,500	2.8
	10/17/96	7.63	4,800	120	<25	150	96	11,000	2.8
	01/22/97	5.26	12,000	83	<20	170	240	4,300	2.6
	04/01/97	8.02	4,800	65	<5.0	81	93	3,200	2.4

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			←		(Concentrations in µg/L)			→	
	07/14/97	10.05	2,400	35	<10	30	20	6,000	2.0
	10/08/97	10.22	2,900	66	<20	<20	<20	7,300	5.9
	01/19/98[b]	---	---	---	---	---	---	---	---
	04/28/98[b]	---	---	---	---	---	---	---	---
	09/30/98	**9.31**	**1,300**	**57**	**8.7**	**58**	**37**	**3,600**	**2.9**
MW-5	08/06/91	10.23	9,100	210	27	240	660	----	----
	10/23/91	10.89	12,000	92	18	230	450	----	----
	01/28/92	8.45	3,300	130	10	180	220	----	----
	05/04/92	8.05	3,900	95	<12.5	260	120	----	----
	07/13/92	10.00	4,100	180	12	250	73	----	----
	10/12/92[SPH]	11.83	----	----	----	----	----	----	----
	01/12/93[SPH]	6.10	----	----	----	----	----	----	----
	04/06/93	6.18	6,200	71	<0.5	53	150	----	----
	07/12/93	9.59	3,400	130	<0.5	170	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	13	180	260	----	----
	10/27/94	10.14	6,900	82	<5	210	1110	----	----
	01/03/95	5.84	12,000	110	46	790	510	----	----
	04/13/95	5.28	10,000	61	<20	330	140	----	----
	06/30/95	7.43	12,000	180	8.60	440	340	----	----
	10/11/95	8.90	11,000	<50	<50	440	340	5,100	----
	10/11/96[dup]	8.90	11,000	95	<50	440	330	660	----
	01/17/96	6.40	82,000	330	120	960	1,400	820	----
	04/10/96	5.70	23,000	<50	<50	360	190	770	----
	04/10/96[dup]	5.70	19,000	84	<50	430	200	590	----
	07/30/96	7.71	38,000	3,000	<100	1,100	2,600	560	----
	10/17/96	9.04	13,000	36	<10	210	160	720	1.4
	10/17/96[dup]	9.04	11,000	75	<10	180	150	450	1.4

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	01/22/97	4.85	20,000	63	<50	380	390	650	1.6
	04/01/97	6.54	16,000	110	<50	390	320	2,200	1.4
	07/14/97	8.54	15,000	70	<20	220	170	450	1.8
	10/08/97	9.09	9,100	27	11	170	57	530	4.7
	01/19/98	2.11	9,500	92	<50	200	77	1,100	2.5
	04/28/98	4.90	15,000	100	53	150	80	460	2.2[e]
	09/30/98	8.05	11,000	120	<100	240	200	<500	2.0
MW-6[d]	08/06/91	10.61	28,000	1,400	200	1,300	4,200	----	----
(Abandoned)	10/23/91	11.68	53,000	1,400	230	1,800	6,700	----	----
	01/28/92	8.90	87,000	1,200	470	2,000	6,600	----	----
	05/05/92	8.01	230,000	<500	<500	3,200	11,000	----	----
	07/13/92	10.77	2,700,000	<2,500	3,500	14,000	36,000	----	----
	10/12/92[SPH]	8.68	----	----	----	----	----	----	----
	01/12/93[SPH]	6.40	----	----	----	----	----	----	----
	04/06/93	5.93	320,000	2,500	14,000	980	14,000	----	----
	07/12/93	10.25	31,000	1,100	4,500	150	4,500	----	----
	07/12/93[dup]	10.25	25,000	1,200	4,800	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	6,100	12,000	29,000	----	----
	10/11/95	10.06	30,000	130	<50	1,400	4,200	710	----
	01/17/96	6.91	450,000	510	1,400	2,700	11,000	630	----
	04/10/96	5.92	22,000	47	<10	350	860	<50	----
	07/30/96	8.97	38,000	3,000	<100	1,100	2,600	560	----
	07/30/96[dup]	8.97	38,000	450	100	1,000	3,100	800	----

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	10/17/96 SPH	9.87	34,000	470	<100	1,300	3,900	<500	1.0
	01/22/97	4.43	26,000	<100	<100	600	1,700	<500	1.3
	04/01/97	6.84	30,000	96	33	840	2,600	190	1.4
	07/14/97	10.30	29,000	200	<100	690	2,000	<500	2.3
	10/08/97	10.46	55,000	500	110	640	1,500	900	0.0
MW-7	08/06/91	8.00	13,000	4,300	76	770	730	----	----
	10/23/91	8.16	18,000	3,200	31	660	770	----	----
	01/28/92	7.11	5,000	1,200	<10	220	54	----	----
	05/05/92	6.47	9,500	3,100	72	620	880	----	----
	07/13/92	7.73	20,000	4,200	130	1,600	1,100	----	----
	10/12/92	9.97	16,000	2,500	170	560	170	----	----
	01/12/93	6.26	15,000	2,300	<50	690	440	----	----
	04/06/93	5.92	26,000	5,400	<0.5	1,200	3,000	----	----
	04/06/93 dup	5.92	21,000	5,200	180	1,200	3,000	----	----
	07/12/93	7.27	10,000	3,000	100	510	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	8,500	14,000	52,000	----	----
	10/11/95 SPH	7.88	----	----	----	----	----	----	----
	01/17/96 SPH	7.26	----	----	----	----	----	----	----
	04/10/96 SPH	6.98	----	----	----	----	----	----	----
	07/30/96	7.34	----	----	----	----	----	----	----
	10/17/96 SPH	7.63	---	---	---	---	---	---	---
	01/22/97	6.46	56,000	2,000	520	1,400	8,400	1,800	0.5
	04/01/97	6.97	66,000	3,600	460	2,400	10,000	2,300	1.6

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	07/14/97[SPH]	8.90	---	---	---	---	---	---	---
	10/08/97	9.21	68,000	3,200	470	2,400	9,700	3,300	2.1
	01/19/98	4.65	44,000	1,800	220	1,700	7,800	1,600	1.6
	04/28/98	6.53	82,000	1,500	<500	1,200	8,900	<2,500	1.3[e]
	10/01/98[f]	**5.59**	**41,000**	**2,300**	**290**	**2,200**	**7,000**	**1,400**	**1.4**
MW-8	08/06/91	9.60	32,000	3,700	1,100	1,400	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	750	1,400	6,300	----	----
	05/05/92	6.48	180,000	2,200	2,000	2,700	13,000	----	----
	07/13/92	8.55	56,000	4,500	1,500	2,700	9,100	----	----
	10/12/92	9.97	34,000	2,400	550	1,400	6,400	----	----
	10/12/92[dup]	9.97	34,000	3,100	700	1,500	7,200	----	----
	01/12/93	6.94	110,000	2,100	1,200	2,400	12,000	----	----
	04/06/93	5.72	38,000	2,500	840	1,100	4,900	----	----
	07/12/93	7.65	27,000	2,800	990	1,200	5,300	----	----
	10/13193	8.25	32,000	3,300	1,300	1,600	8,400	----	----
	10/13/93[dup]	8.25	47,000	3,200	1,300	1,600	8,500	----	----
	01/20/94	7.25	78,000	1,900	670	1,300	6,600	----	----
	01/20/94[dup]	7.25	60,000	1,700	680	1,100	5,500	----	----
	04/13/94	7.12	41,000	1,300	720	1,200	6,000	----	----
	07/19/94	7.43	140,000	1,800	1,400	2,000	9,000	----	----
	10/27/94	7.55	32,000	1,200	670	1,200	5,700	----	----
	10/27/94[dup]	7.55	42,000	1,100	650	1,100	5,700	----	----
	01/03/95	6.04	38,000	1,000	700	1,500	7,500	----	----
	04/13/95	5.04	31,000	1,200	570	1,000	5,300	----	----
	06/30/95	5.72	110,000	2,000	1,500	2,000	9,700	----	----
	10/11/95	7.06	36,000	170	60	1,300	6,300	510	----
	01/17/96	5.84	38,000	1,000	520	1,100	6,200	950	----
	04/10/96	5.03	54,000	650	260	850	4,700	<250	----
	07/30/96	6.36	33,000	780	330	830	4,200	1,700	----

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	10/17/96	5.94	35,000	750	300	1,100	5,000	1,200	1.6
	01/22/97	5.93	25,000	260	78	420	2,400	120	1.8
	04/01/97	6.24	22,000	680	180	550	2,500	260	1.8
	07/14/97	8.59	29,000	870	200	850	3,100	500	1.4
	10/08/97	9.04	27,000	1,000	190	960	3,000	170	4.6
	01/19/98	3.34	21,000	660	160	740	3,300	170	2.2
	04/28/98[b]	---	---	---	---	---	---	---	---
	09/30/98	**7.00**	**19,000**	**370**	**230**	**880**	**3,800**	**410**	**1.2**
MW-9	08/06/91	10.33	11,000	1,700	95	520	1,400	----	----
	10/23/91	11.13	20,000	1,000	47	<0.3	940	----	----
	01/28/92	9.02	3,500	120	<10	280	36	----	----
	05/04/92	7.67	7,700	1,200	<50	380	630	----	----
	07/20/92	10.26	11,000	910	<50	220	1,200	----	----
	10/12/92	12.19	2,100	340	15	77	44	----	
	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	6.90	150	400	----	----
	04/13/94	7.81	6,000	1,000	<20	450	420	----	----
	07/19/94	8.96	12,000	1,400	<5	740	1,200	----	----
	10/27/94	11.00	10,000	1,200	160	280	860	----	----
	01/03/95	6.60	4,400	680	7.70	180	370	----	----
	04/13/95	6.73	1,700	270	<10	69	170	----	----
	06/30/95	7.32	14,000	2,200	18	900	2,600	----	----
	06/30/95[dup]	7.32	13,000	2,100	17	870	2,500	----	----
	10/11/95	8.10	9,600	35	12	360	980	590	----
	01/17/96	5.75	2,800	150	7.41	54	130	170	----
	04/10/96	5.17	5,200	290	<5	92	220	240	----
	07/30/96	8.1	5,100	960	<10	380	770	670	----

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	10/17/96	9.12	15,000	2,100	<25	590	1,300	1,500	2.4
	01/22/97	4.72	5,600	690	<5.0	140	310	620	2.2
	04/01/97	6.86	4,000	590	<10	140	200	600	2.2
	04/01/97[dup]	6.86	4,800	660	<25	160	230	810	2.2
	07/14/97	10.04	7,100	860	<10	51	230	950	3.8
	10/08/97	11.38	1,500	57	<2.0	2.0	13	540	8.2
	01/19/98	3.88	2,500	280	<20	79	61	620	1.4
	04/28/98	5.87	2,200	330	<20	91	110	640	1.6[e]
	09/30/98	**8.25**	**2,800**	**490**	**<5.0**	**87**	**240**	**1,200**	**4.0**
MW-10	10/23/91	8.57	27,000	1,600	110	1,800	510	----	----
	01/28/92	7.60	3,800	360	14	170	39	----	----
	05/04/92	7.54	3,000	360	<12.5	140	26	----	----
	07/20/92	8.59	15,000	400	<25	180	67	----	----
	10/12/92	10.23	16,000	320	<50	360	100	----	----
	01/12/93[b]	----	----	----	----	----	----	----	----
	04/06/93	6.70	14,000	370	<0.5	880	210	----	----
	07/12/93	8.05	10,000	440	58	890	220	----	----
	10/13/93	8.25	15,000	1,000	51	810	170	----	----
	01/20/94	7.20	12,000	820	56	1,100	350	----	----
	04/13/94	7.57	18,000	760	36	700	130	----	----
	07/19/94	8.18	24,000	400	2.30	800	22	----	----
	10/27/94	8.68	11,000	360	43	310	89	----	----
	01/03/95	6.86	17,000	770	38	690	160	----	----
	04/13/95	6.91	9,900	650	16	280	40	----	----
	06/30/95	7.61	12,000	750	20	480	130	----	----
	01/17/96	7.00	17,000	870	260	93	830	----	----
	04/10/96	6.80	14,000	470	38	110	370	----	----
	07/30/96	----	----	----	----	----	----	----	----
	10/17/96	---	---	---	---	---	---	---	---
	01/22/97	6.68	10,000	520	<20	64	32	180	3.1

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	04/01/97	7.34	11,000	590	<20	53	32	210	2.8
	07/14/97	8.10	6,600	410	13	28	11	89	1.4
	10/08/97	8.2	7,600	220	13	65	22	190	6.4
	01/19/98[b]	---	---	---	---	---	---	---	---
	04/28/98[b]	---	---	---	---	---	---	---	---
	09/30/98[b]	8.11	---	---	---	---	---	---	---
MW-11	10/23/91	8.06	140	<12	<0.3	0.37	0.56	----	----
	01/28/92	13.32	<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	<0.5	<0.5	<0.5	<0.5	----	----
	10/12/92	12.40	75	<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	----	----
	10/11/95	10.30	60	53	<0.5	<0.5	0.80	3.0	----
	01/17/96	6.45	<50	<0.5	<0.5	<0.5	<0.5	<2	----
	04/10/96	6.05	<50	<0.5	<0.5	<0.5	<0.5	3.9	----
	07/30/96	8.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	----
	10/17/96	9.24	3,000	28	23	29	210	76	----
	01/22/97	5.12	<50	<0.5	<0.5	<0.5	<0.5	<2.5	3.7
	04/01/97	7.41	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	07/14/97	9.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.9

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	10/08/97	10.23	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	01/19/98	3.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.2
	04/28/98	5.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0[e]
	09/30/98[5]	---	---	---	---	---	---	---	---
Equipment 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	<0.5	----	----
	07/19/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----
	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	----	----
	10/11/95	----	<50	<0.5	<0.5	<0.5	<0.5	<0.5	----
	01/17/96	----	<50	<0.5	<0.5	<0.5	<0.5	<2	----
	04/01/97	----	<50	<0.50	<0.50	<0.50	<0.50	<2.5	----
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	----	----
	10/27/94	----	<50	<0.5	<0.5	<0.5	<0.5	----	----

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

Well ID	Date Sampled	Depth to water (ft below TOC)	TPH-G	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →						
	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	----	----
	10/11/95	----	<50	<0.5	<0.5	<0.5	<0.5	<0.5	----
MCLs			NE	1	150	700	1,750	NE	

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses indicates MTBE by EPA Method 8260
DO = Dissolved oxygen
TOC = Top of casing
µg/L = Micrograms per liter
mg/L = Milligrams per liter
dup = Duplicate sample
SPH = Not sampled, separate-phase hydrocarbons detected in well
MCLs = California primary maximum contaminant levels for drinking water (22 CCR 64444)
NE = MCLs not established

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 = Analytic laboratory noted that MTBE could not be quantified due to co-eluting compounds
d = Well abandoned December 5, 1997
e = DO measurements collected May 1, 1998
f = Well dewatered during September 30, 1998 redevelopment, sample grabbed October 1, 1998
g = Well paved over
* = The result for gasoline is an unknown hydrocarbon which consists of a single peak as confirmed by NET Laboratory
---- = Not analyzed
<n = Below detection limits of n µg/L

ATTACHMENT A

Blaine Ground Water Monitoring Report

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

November 10, 1998

Equiva Services, L.L.C.
P.O. Box 6249
Carson, CA 90749-6249

Attn: Karen Petryna

Shell WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California

3rd Quarter 1998

Groundwater Monitoring Report 980930-T-2

Blaine Tech Services, Inc. performs environmental monitoring and documentation as an independent third party. Copies of our Monitoring 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) 573-0555 ext. 201.

Yours truly,

Francis Thie

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

cc: Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411
Attn: Anni Kreml

(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	09/30/98	TOC	ODOR	NONE	–	–	9.90	24.26
MW-2*	09/30/98	TOC	–	NONE	–	–	7.20	19.20
MW-4	09/30/98	TOC	ODOR	NONE	–	–	9.31	18.17
MW-5	09/30/98	TOC	ODOR/SHEEN	NONE	–	–	8.05	24.78
MW-7	09/30/98	TOC	SHEEN	NONE	–	–	5.59	19.22
MW-8	09/30/98	TOC	–	NONE	–	–	7.00	17.89
MW-9	09/30/98	TOC	ODOR	NONE	–	–	8.25	19.38
MW-10	09/30/98	TOC	UNABLE TO SAMPLE	NONE	–	–	8.11	18.89
MW-11	09/30/98	WELL PAVED OVER	–	–	–	–	–	–

* Sample DUP was a duplicate sample taken from well MW-2.

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 980930-T2

Date: 9/30/98
Page 1 of 1

Site Address: 3420 San Pablo Ave., Oakland, CA

WIC#: 204-5506-5306

Shell Engineer: Alex Perez
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments:

Sampled by: [signature]

Printed Name: Mike Tow

LAB: SEQ

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring [X]	4461	24 hours [ ]
Site Investigation [ ]	4441	48 hours [ ]
Soil Classify/Disposal [ ]	4442	16 days [X] (Normal)
Water Classify/Disposal [ ]	4443	Other [ ]
Soil/Air Rem. or Sys. O & M [ ]	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M [ ]	4453	
Other [ ]		

UST AGENCY: 9810152

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	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, MTBE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW1	9/30/98	01		X		3						X								
MW2	↓	02		X		3						X								
MW4	↓	03		X		3						X								
MW5	↓	04		X		3						X								
MW8	↓	05		X		3						X								
MW9	↓	06		X		3						X								
DUP	↓	07		X		3						X								
EB	↓	08		X		3						X								

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
[signature]	Mike Tow	Date: 10/1/98 Time: 1115	[signature]	JOHN FRICK	Date: 10/1/98 Time: 1115
[signature]	JOHN FRICK	Date: 10/1/98 Time:	[signature]	WIMC TANLA	Date: 10/1/98 Time: 12:49
		Date: Time:			

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

Shell Oil Chn. of Custody

9810234

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 980930 T2

Date:
Page 1 of 1

Site Address: 3420 San Pablo Ave., Oakland, CA

WIC#: 204-5506-5306

Shell Engineer: Alex Perez
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments:

Sampled by: BROOKS TAYLOR

Printed Name:

LAB: SEQ

Analysis Required

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	[X]	4461
Site Investigation	[ ]	4441
Soil Classify/Disposal	[ ]	4442
Water Classify/Disposal	[ ]	4443
Soil/Air Rem. or Sys. O & M	[ ]	4452
Water Rem. or Sys. O & M	[ ]	4453
Other	[ ]	

TURN AROUND TIME
- 24 hours [ ]
- 48 hours [ ]
- 15 days [X] (Normal)
- Other [ ] ____

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

UST AGENCY: ____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	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 & MTBE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
a MW7	10/01			X								X								

Relinquished By (signature):	Printed Name:	Date: / Time:	Received (signature):	Printed Name:	Date: / Time:
[signature]	BROOKS TAYLOR	Date: 10/2/98 Time: 1130	[signature]	JOHN FRICK	Date: 10/2/98 Time: 1130
[signature]	JOHN FRICK	Date: 10/2/98 Time:	Received (signature):	~~Printed Name:~~	Date: Time:
		Date: Time:	[signature]	MIKE [illegible]	Date: 10/2/98 Time: 1339

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

Shell Oil Chn. of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 3420 San Pablo Ave

Enclosed are the results from samples received at Sequoia Analytical on October 1, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9810152 -01	LIQUID, MW-1	09/30/98	TPPH/BTEX/MTBE (Concord)
9810152 -02	LIQUID, MW-2	09/30/98	TPPH/BTEX/MTBE (Concord)
9810152 -03	LIQUID, MW-4	09/30/98	TPPH/BTEX/MTBE (Concord)
9810152 -04	LIQUID, MW-5	09/30/98	TPPH/BTEX/MTBE (Concord)
9810152 -05	LIQUID, MW-8	09/30/98	TPPH/BTEX/MTBE (Concord)
9810152 -06	LIQUID, MW-9	09/30/98	TPPH/BTEX/MTBE (Concord)
9810152 -07	LIQUID, DUP	09/30/98	TPPH/BTEX/MTBE (Concord)
9810152 -08	LIQUID, EB	09/30/98	TPPH/BTEX/MTBE (Concord)

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: MW-1	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/06/98
Attention: Fran Thie	Lab Number: 9810152-01	Reported: 10/14/98

QC Batch Number: GC100698BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**1300**
Methyl t-Butyl Ether	**250**	**2000**
Benzene	**5.0**	**25**
Toluene	**5.0**	**8.3**
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	**5.0**	**12**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/06/98
Attention: Fran Thie	Lab Number: 9810152-02	Reported: 10/14/98

QC Batch Number: GC100698BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	42000
Methyl t-Butyl Ether	500	1800
Benzene	100	7400
Toluene	100	200
Ethyl Benzene	100	2600
Xylenes (Total)	100	9800
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	124

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/06/98
Attention: Fran Thie	Lab Number: 9810152-03	Reported: 10/14/98

QC Batch Number: GC100698BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**1300**
Methyl t-Butyl Ether	**5.0**	**3600**
Benzene	**1.0**	**57**
Toluene	**1.0**	**8.7**
Ethyl Benzene	**1.0**	**58**
Xylenes (Total)	**1.0**	**37**
Chromatogram Pattern:		**C6-C12**

Surrogates	**Control Limits %**		**% Recovery**
Trifluorotoluene	70	130	175 Q

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

SEQUOIA ANALYTICAL - *ELAP #1271*

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: MW-5	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/07/98
Attention: Fran Thie	Lab Number: 9810152-04	Reported: 10/14/98

QC Batch Number: GC100798BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**10000**	**11000**
Methyl t-Butyl Ether	500	N.D.
Benzene	**100**	**120**
Toluene	100	N.D.
Ethyl Benzene	**100**	**240**
Xylenes (Total)	**100**	**200**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	131 Q

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: MW-8	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/06/98
Attention: Fran Thie	Lab Number: 9810152-05	Reported: 10/14/98

QC Batch Number: GC100698BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**19000**
Methyl t-Butyl Ether	**250**	**410**
Benzene	**50**	**370**
Toluene	**50**	**230**
Ethyl Benzene	**50**	**880**
Xylenes (Total)	**50**	**3800**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	141 Q

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: MW-9	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/06/98
Attention: Fran Thle	Lab Number: 9810152-06	Reported: 10/14/98

QC Batch Number: GC100698BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**2800**
Methyl t-Butyl Ether	**25**	**1200**
Benzene	**5.0**	**490**
Toluene	5.0	N.D.
Ethyl Benzene	**5.0**	**87**
Xylenes (Total)	**5.0**	**240**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	141 Q

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: DUP	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/06/98
Attention: Fran Thie	Lab Number: 9810152-07	Reported: 10/14/98

QC Batch Number: GC100698BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**36000**
Methyl t-Butyl Ether	**250**	**2000**
Benzene	**50**	**7800**
Toluene	**50**	**190**
Ethyl Benzene	**50**	**2500**
Xylenes (Total)	**50**	**10000**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	134 Q

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 09/30/98
1680 Rogers Avenue	Sample Descript: EB	Received: 10/01/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/06/98
Attention: Fran Thie	Lab Number: 9810152-08	Reported: 10/14/98

QC Batch Number: GC100698BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	120

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 3420 San Pablo Ave
Matrix: Liquid
Work Order #: 9810152 -04
Reported: Oct 16, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC100798802002A	GC100798802002A	GC100798802002A	GC100798802002A	GC100798802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8100246	8100246	8100246	8100246	8100246
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/7/98	10/7/98	10/7/98	10/7/98	10/7/98
Analyzed Date:	10/7/98	10/7/98	10/7/98	10/7/98	10/7/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
Result:	20	20	20	60	330
MS % Recovery:	100	100	100	100	106
Dup. Result:	22	21	21	64	320
MSD % Recov.:	110	105	105	107	103
RPD:	9.5	4.9	4.9	6.5	3.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS100798	LCS100798	LCS100798	LCS100798	LCS100798
Prepared Date:	10/7/98	10/7/98	10/7/98	10/7/98	10/7/98
Analyzed Date:	10/7/98	10/7/98	10/7/98	10/7/98	10/7/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
LCS Result:	23	23	22	69	340
LCS % Recov.:	115	115	110	115	110
MS/MSD Control Limits	60-140	60-140	60-140	60-140	
LCS Control Limits	70-130	70-130	70-130	70-130	60-140

SEQUOIA ANALYTICAL
Elap #1271

Peggy Penner
Project Manager

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

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

Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 3420 San Pablo Ave
Matrix: Liquid
Work Order #: 9810152-01-03, 05-08
Reported: Oct 16, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC100698802002A	GC100698802002A	GC100698802002A	GC100698802002A	GC100698802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8100225	8100225	8100225	8100225	8100225
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/6/98	10/6/98	10/6/98	10/6/98	10/6/98
Analyzed Date:	10/6/98	10/6/98	10/6/98	10/6/98	10/6/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
Result:	21	20	19	60	320
MS % Recovery:	105	100	95	100	91
Dup. Result:	20	19	18	58	330
MSD % Recov.:	100	95	90	97	94
RPD:	4.9	5.1	5.4	3.4	3.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS100698	LCS100698	LCS100698	LCS100698	LCS100698
Prepared Date:	10/6/98	10/6/98	10/6/98	10/6/98	10/6/98
Analyzed Date:	10/6/98	10/6/98	10/6/98	10/6/98	10/6/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
LCS Result:	22	22	22	66	330
LCS % Recov.:	110	110	110	110	94
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	

SEQUOIA ANALYTICAL
Elap #1271

Peggy Penner
Project Manager

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

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Received: 10/01/98
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9810152	Reported: 10/14/98
Attention: Fran Thie		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 12 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 3420 San Pablo Ave

Enclosed are the results from samples received at Sequoia Analytical on October 2, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9810234 -01	LIQUID, MW-7	10/01/98	Purgeable TPH/BTEX/MTBE

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Sampled: 10/01/98
1680 Rogers Avenue	Sample Descript: MW-7	Received: 10/02/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 10/09/98
Attention: Fran Thle	Lab Number: 9810234-01	Reported: 10/21/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**41000**
Methyl t-Butyl Ether	**50**	**1400**
Benzene	**10**	**2300**
Toluene	**10**	**290**
Ethyl Benzene	**10**	**2200**
Xylenes (Total)	**10**	**7000**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 3420 San Pablo Ave
Matrix: Liquid
Work Order #: 9810243 -01
Reported: Oct 28, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	8100137	8100137	8100137	8100137
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015	EPA 8015	EPA 8015	EPA 8015
Analyst:	-	-	-	-
MS/MSD #:	P810114-01	P810114-01	P810114-01	P810114-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/9/98	10/9/98	10/9/98	10/9/98
Analyzed Date:	10/9/98	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
Result:	101	97.9	96.6	290
MS % Recovery:	101	97.9	96.6	96.7
Dup. Result:	99.8	96.3	95	286
MSD % Recov.:	99.8	96.3	95	95.3
RPD:	1.2	1.65	1.67	1.39
RPD Limit:	0-5	0-6	0-4	0-5
LCS #:	LCS100998	LCS100998	LCS100998	LCS100998
Prepared Date:	10/9/98	10/9/98	10/9/98	10/9/98
Analyzed Date:	10/9/98	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
LCS Result:	97.4	93.8	92.5	279
LCS % Recov.:	97.4	93.8	92.5	93
MS/MSD Control Limits	82-119	80-117	66-125	73-119
LCS Control Limits	84-116	81-117	79-115	80-114

SEQUOIA ANALYTICAL
Elap #2245

Reggy Penner
Project Manager

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

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

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 3420 San Pablo Ave	Received: 10/02/98
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9810234	Reported: 10/21/98
Attention: Fran Thie		

LABORATORY NARRATIVE

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SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

WELL GAUGING DATA

Project # 980930-T2 Date 9-30-98 Client 204-5503-5306

Site 3420 San Pablo Ave, Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Def. Needs
MW1	4					9.90	24.26	TOC	cap
MW2	4					7.20	19.20		cap + Lock
MW 4	4	odor				9.31	18.17		Needs Lock
MW 5	4					8.05	24.78		cap + Lock
MW 7	4	sheen				5.59	19.22		cap Lock
MW 8	4					~~7.00~~ 7.00	~~17.89~~ 17.89		Needs Locks
MW 9	4					8.25	19.38		
MW 10	4	strong odor				8.11	18.89		
MW 11		Paved over							

WELL DEVELOPMENT DATA SHEET

Project #: 980930-T2	Client: 204-5508-5306
Developer: Chris	Date Developed: 9-30-98
Well I.D. MW1	Well Diameter: (circle one) 2 3 4 6 __
Total Well Depth:	Depth to Water:
Before 24.26 After	Before 9.90 After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

9.3	X	10	93
1 Case Volume		Specified Volumes	= gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
1525	66.5	7.8	400	>200	10	Dark Black, odor, Removing Silt
1527		Dewatered @			12	
		Surged for 5 min				DTW = 14.28
1611	65.4	7.8	320	>200	22	Dark Black, odor, Removing Silt
1612		Dewatered @			23	
1735						DTW = 12.00

Did Well Dewater? Yes If yes, note above. Gallons Actually Evacuated:

SHELL WELL MONITORING DATA SHEET

Project #: 980930-T2	WIC #: 204-5508-5300
Sampler: MT	Date: 9/30
Well I.D.: MW1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.20	Depth to Water: 9.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Extraction Port / Other: _____

9.3	X	3	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1525	66.5	7.8	410	>200	10	odor
	Remarked		@		12	
1735	DTW =	14.00				

Did well dewater? (Yes) No	Gallons actually evacuated: 12
Sampling Time: 1740	Sampling Date: 9/30
Sample I.D.: MW-1	Laboratory: (Sequoia) Crosby
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ____ mg/L	(Post-purge:) 1.6 mg/L

WELL DEVELOPMENT DATA SHEET

Project #: 980930-T2	Client: 204-5508-5306
Developer: MH	Date Developed: 9/30
Well I.D. MW2	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: 19.20	Depth to Water: 7.20
Before After	Before After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

7.2	X	10		72
1 Case Volume		Specified Volumes	=	gallons

Purging Device: Bailer ☐ Electric Submersible ☒
Middleburg ☐ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
1713	67.0	7.7	7529	>200	8	Removing Silt/Odor
1721	68.0	7.3	897	>200	16	" " "
			Surged for 5 min			Switch to E.S.
1727	68.2	7.2	970	106.1	24	Clearing up, Odor
1728	70.4	7.2	1000	96.7	32	Clearing up Odor
1730	71.0	7.1	1021	90.3	40	Slow Recharge, Odor
1731		Dewatered @			42	
1820						DTW = 8.97

Did Well Dewater? Yes If yes, note above. Gallons Actually Evacuated:

SHELL WELL MONITORING DATA SHEET

Project #: 980930-T2	WIC #: 204 5508-5306
Sampler: CL	Date: 9/30
Well I.D.: MW2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 19.20	Depth to Water: 7.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): ~~YSI~~ HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Extraction Port / Other: _____

7.2 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = _____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1727	68.2	7.2	970	>100.1	8	
1728	70.4	7.2	1000	>100.7	16	
1730	71.0	7.1	1021	>100.3	24	

Did well dewater? (Yes) No	Gallons actually evacuated: 24
Sampling Time: 1820	Sampling Date: 9/30
Sample I.D.: MW-2	Laboratory: (Sequoia) Crosby
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.: Dup
Analyzed for: ~~TPH-G~~ BTEX MTBE ~~TPH-D~~	Other:
D.O. (if req'd): Pre-purge: ____ mg/L	Post-purge: 1.6 mg

WELL DEVELOPMENT DATA SHEET

Project #: 980930-J2	Client: 204-5508-5306
Developer: Chris	Date Developed: 9-30-98
Well I.D. mw4	Well Diameter: (circle one) 2 3 (4) 6 __
Total Well Depth: 18.17	Depth to Water: 9.31
Before After	Before After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

5.7	x	10	=	57
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☑ 9 case volumes
Middleburg ☑ 1 case volume Suction Pump ☐
Type of Installed Pump _____
Other equipment used _____ Surged well for 15 min

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
14:35	66.2	7.9	750	>200	6	sheen/odor grey/Blck
14:40	69.2	7.5	650	>200	12	silty
14:42	68.6	7.3	700	>200	18	switched to 3" Grundfos ES.
14:44	68.2	7.1	750	>200	24	greyish Black oily odor
14:46	68.4	7.0	750	>200	30	
14:48	68.4	7.0	750	>200	36	very turbid
14:50	68.2	7.1	750	>200	42	
14:52	68.4	7.1	750	>200	48	
14:54	68.4	7.0	700	>200	54	still turbid clearing a little
14:56	68.2	7.0	700	>200	60	
1600						DTW = 10.00

Did Well Dewater? If yes, note above. Gallons Actually Evacuated: 60

SHELL WELL MONITORING DATA SHEET

Project #: 980930-T2	WIC #: 204-5508-5306
Sampler: CL	Date: 9/30
Well I.D.: MW4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 18.17	Depth to Water: 9.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible (X) / Extraction Pump / Other: ___

Sampling Method: Bailer (X) / Extraction Port / Other: ___

5.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 17.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1452	68.4	7.1	750	>200	6	
1454	68.4	7.0	700	>200	18	
1456	68.2	7.0	700	>200	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Time: 1600 Sampling Date: 9/30

Sample I.D.: MW4 Laboratory: (Sequoia) Crosby

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: ___ mg/L (Post-purge:) ~~2.9~~ 2.9 mg/L

WELL DEVELOPMENT DATA SHEET

Project #: 980930-T2	Client: 204 - 5508 - 5806
Developer: MT	Date Developed: 9/30
Well I.D. MW5	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: 24.78	Depth to Water: 8.05
Before After	Before After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

10.9	X	10		109
1 Case Volume		Specified Volumes	=	gallons

Purging Device: Bailer ☐ Electric Submersible ☑
Middleburg ☑ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
1633	64.8	7.8	1247	>200	11	Removing Silt, Sheen, Odor
1644	67.8	7.6	1217	>200	22	" " " "
1647	67.5	7.4	1270	>200	33	Switched to E.S., Odor, Sh...
1649	67.2	7.6	1257	>200	44	Removing Silt, Black
1651	67.0	7.5	1223	>200	55	Removing Silt, Black, Odor, Sh...
1652	Dewatered @				59	
1740						DTW = 10.12

Did Well Dewater? Yes If yes, note above. Gallons Actually Evacuated:

SHELL WELL MONITORING DATA SHEET

Project #: 980930-C2	WIC #: 204-5508-5306
Sampler: CL	Date: 9/30
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.78	Depth to Water: 8.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible X / Extraction Pump / Other: _____

Sampling Method: Bailer / Extraction Port / Other: _____

10.9	X	3	=	32.7 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1647	67.5	7.4	1270	>200	11	
1649	67.2	7.6	1257	>200	22	
1651	67.0	7.5	1223	>200	33	

Did well dewater? Yes No	Gallons actually evacuated: 33
Sampling Time: 1745	Sampling Date: 9/30
Sample I.D.: MW-5	Laboratory: (Sequoia) Crosby
Analyzed for: ~~TPH-G~~ BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ____ mg/L	(Post-purge:) 2.0 mg/L

WELL DEVELOPMENT DATA SHEET

Project #: 980930-T2	Client: ~~B~~ 204-5508-5306-
Developer: Chris	Date Developed: 9-30-98
Well I.D. MW7	Well Diameter: (circle one) 2 3 (4) 6 __
Total Well Depth: 19.22	Depth to Water: 5.59
Before After	Before After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
$\pi = 3.1416$	10"	=	4.08
231 = in 3/gal	12"	=	6.87

8.8	X	10		88
1 Case Volume		Specified Volumes	=	gallons

Purging Device: Bailer ☐ Electric Submersible ☑
Middleburg ☐ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS: surged w/E.S. for 5min prior to purge
17:22	68.2	7.5	700	>200	9	Cloudy Brown odor
17:24	68.0	7.5	650	>200	18	Sheen
17:26		Dewatered @		~~19.00~~	20	DTW=19.00
1840		No water		to measure	DTW=	

Did Well Dewater? Yes If yes, note above. Gallons Actually Evacuated:

SHELL WELL MONITORING DATA SHEET

Project #: 980930-T2	WIC #: 204-5508-5306
Sampler: MT	Date: 9/30
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 19.22	Depth to Water: 5.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / Extraction Port / Other: ____

8.5 (1 Case Volume (Gals.)) X ____ (Specified Volumes) = ____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1722	68.2	7.5	700	>200	9	
1724	68.0	7.5	650	>200	18	
		Dewatered @			20	
1940	NO water to Sample, Return to office per christine.					
10/1/98	Grab	sampled well - by BROOKS				

Did well dewater? (Yes) No	Gallons actually evacuated: 20
Sampling Time: ~~9:45~~	Sampling Date: ~~9/30~~ 10/1
Sample I.D.: MW-1	Laboratory: (Sequoia) Crosby
Analyzed for: ~~TPH-G~~ BTEX ~~MTBE~~ TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ____ mg/L	(Post-purge:) ____ mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 980930 T2	WIC #: 204 5508 530C
Sampler: B. TAYLOR	Date: 10/1/98
Well I.D.: MW7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.22	Depth to Water: 5.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer (X) / Extraction Port / Other: ___

6 x 19.8 = SAMPLE Gals.
1 Case Volume (Gals.) Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
915	68.4	7.3	600	7200	/	

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time: 9:15	Sampling Date: 10/1/98
Sample I.D.: MW7	Laboratory: (Sequoia) Crosby
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ___ mg/L	Post-purge: 1.4 mg/L

WELL DEVELOPMENT DATA SHEET

Project #: 980930-T2	Client: 204-5508-5306
Developer: Chris	Date Developed: 9-30-98
Well I.D. MW8	Well Diameter: (circle one) 2 3 (4) 6 __
Total Well Depth: 17.89	Depth to Water: 17.00
Before After	Before After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

7.0	X	10		70
1 Case Volume		Specified Volumes	=	gallons

Purging Device: Bailer ☐ Electric Submersible ☑
Middleburg ☐ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
16:40	68.6	7.7	800	7200	7.0	Brown Surged 5 min
16:41	67.4	7.8	800	7200	14.0	Turbid w/E.S.
16:42		Dewatered @			15	DTW 17.35
1820					DTW	15.00

Did Well Dewater? Yes If yes, note above. Gallons Actually Evacuated:

SHELL WELL MONITORING DATA SHEET

Project #: 980930-S2	WIC #: 204-5508-5306
Sampler: MK	Date: 9/30
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 17.99	Depth to Water: 7.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Extraction Port / Other: ___

7.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 21 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1640	68.6	7.7	800	>200	7	
1641	67.4	7.8	800	>200	14	
		Dewatered			15	

Did well dewater? (Yes) No	Gallons actually evacuated: 15
Sampling Time: 1810	Sampling Date: 9/30
Sample I.D.: MW-8	Laboratory: (Sequoia) Crosby
Analyzed for: ~~TPH-G~~ BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ___ mg/L	(Post-purge:) 1.2 mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 980930-T2	WIC #: 204. 5508-5306
Sampler: MT / ~~CH~~	Date: 9/30
Well I.D.: MW9	Well Diameter: 2 3 ~~4~~ 6 8 ____
Total Well Depth: 19.30	Depth to Water: 8.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible ~~X~~ / Extraction Pump / Other: ____

Sampling Method: Bailer ~~X~~ / Extraction Port / Other: ____

7.3 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 21.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1527	68.1	7.5	926	40.0	8	odor
1529	67.6	7.4	838	46.6	16	odor
1531	67.4	7.3	976	103.6	22	

Did well dewater? Yes (No)	Gallons actually evacuated: 22
Sampling Time: 1540	Sampling Date: 9/30
Sample I.D.: MW9	Laboratory: (Sequoia) Crosby
Analyzed for: (TPH-G BTEX ~~MTBE~~ ~~TPH-D~~)	Other:
Equipment Blank I.D.: EB @ 1550 Time	Duplicate I.D.:
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other:
D.O. (if req'd): Pre-purge: ____ mg/L	Post-purge: 4.0 mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 980930-T2	WIC #: 204-5508-5306
Sampler: Mike T / Chris L.	Date: 9/30/98 and 10/1/98
Well I.D.: MW-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 18.89	Depth to Water: 8.11
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: _____

Sampling Method: Bailer, Extraction Port, Other: _____

_____ (1 Case Volume (Gals.)) X _____ (Specified Volumes) = _____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
Inaccessible - car parked over well						
10/1 - Still car parked over						

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.:		Laboratory: Sequoia Crosby	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
Equipment Blank I.D.:	@ Time	Duplicate I.D.:	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 980930-T2	WIC #: 204-5508-5306
Sampler: Mike T / Chris L.	Date: 9/30/98
Well I.D.: MW-11	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: ___	Depth to Water: ___
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Extraction Port / Other: ___

___ (1 Case Volume (Gals.)) X ___ (Specified Volumes) = ___ (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
___	Well paved			over	___	

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory: Sequoia Crosby
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ___ mg/L	Post-purge: ___ mg/L

ATTACHMENT B

Chavez Surveying Results

Virgil Chavez Land Surveying
312 Georgia Street, Suite 200
Vallejo, California 94590
(707) 553-2476 • Fax (707) 553-8698

September 2, 1998
Project No. 1603-14

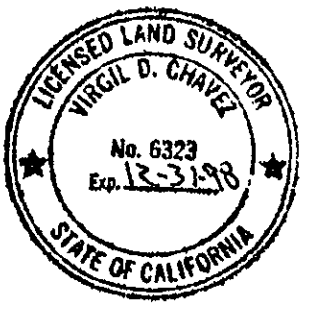
Paul Waite
Cambria Environmental Technology
1144 65th Street, Suite C
Oakland, Ca. 94608

Subject: Monitoring Well Survey
Shell Service Station
3420 San Pablo Ave.
Oakland, Ca.

Dear Paul:

This is to confirm that we have proceeded at your request to survey the new ground water monitoring wells located at the above referenced location. The survey was performed August 28, 1998. Our findings are shown in the table below. The elevations for the survey are based on the data you provided.

Monitoring Well No.	Rim Elevation	TOC Elevation
MW - 1	21.54'	21.05'
MW - 2	22.01'	21.58'
MW - 3R	22.13'	21.83'
MW - 4	21.28'	20.92'
MW - 5	22.04'	21.71'
MW - 6	22.53'	22.19'
MW - 7	21.09'	20.35'
MW - 8	21.53'	21.15'
MW - 9	21.64'	21.19'
MW -10	20.23'	19.76'



Sincerely,

Virgil D. Chavez

Virgil D. Chavez, PLS 6323

To:	**Susan Hugo**
Organization:	**Alameda Co. Dept. Of Environmental Health**
Re:	**3420 San Pablo, Oakland; 3rd Quarter Monitoring Report**
Date:	**December 14, 1998**

TRANSMITTAL

Dear Ms. Hugo:

Enclosed please find a revised ground water elevation contour map for the above referenced site for the third quarter of 1998. Please disregard the map contained in the third quarter monitoring report dated December 2, 1998. If you have any questions, please do not hesitate to call me at (510) 420-3335.

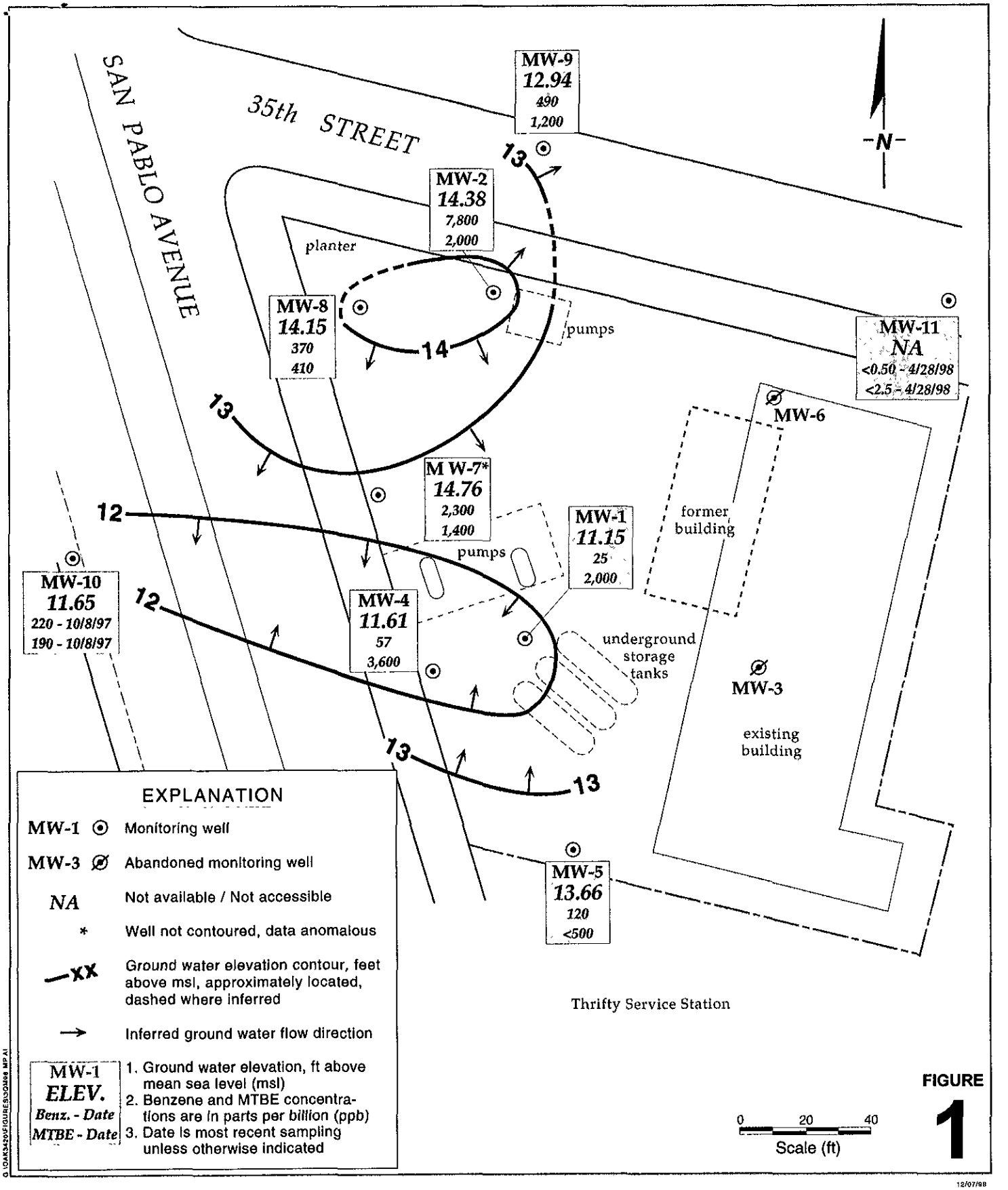
Thank you,

Anni Kreml
Cambria Environmental

From the desk of...

Anni Kreml
Scientist
Cambria Environmental Technologies
1144 65th Street
Oakland, CA 94608

(510) 420-3335
Fax: (510) 420-9170
e-mail: akreml@cambria-env.com



Shell-branded Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306

CAMBRIA

Ground Water Elevation Contours

September 30, 1998