PACIFIC
ENVIRONMENTAL
GROUP, INC.

Rec
2/2/95

initial sampling of certain wells show high levels of TPH-G and benzene, (10K, 1K respectively) yet TET levels were relatively low.

January 23, 1995
Project 305-087.2B

Mr. Lynn Walker
Shell Oil Company
P.O. Box 4023
Concord, California 94524

Re: Quarterly Report - Fourth Quarter 1994
Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California
WIC No 204-2217-0105

Dear Mr. Walker:

The following presents the results of the fourth quarter 1994 monitoring program for the site referenced above. This letter has been prepared for Shell Oil Company by Pacific Environmental Group, Inc. (PACIFIC).

FINDINGS

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services, Inc. (Blaine) at the direction of PACIFIC on November 23, 1994. Groundwater elevation contours for the sampling date are shown on Figure 1. The cooperative gauging date was missed this quarter, but is scheduled to resume in the first quarter of 1995 on February 15, 1995. Table 1 presents groundwater elevation data.

All wells sampled this quarter were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Groundwater analytical data are presented in Table 2. TPH-g and benzene concentrations for the November 1994 sampling event are shown on Figure 2. Blaine's groundwater sampling report, which includes field data and the certified analytical report, is presented as Attachment A

RECOMMENDATIONS

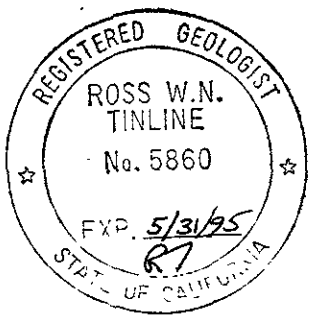
PACIFIC recommended the following sampling reductions, in the third quarter 1994 quarterly report, due to consistent non-detectable or low concentrations of petroleum hydrocarbons in groundwater. PACIFIC intends to implement the sampling frequency reductions beginning in the second quarter of 1995.

Sampling Frequency		
Well	Current	Proposed
MW-4	Semiannually	Annually
MW-5	Quarterly	Semiannually
MW-7	Semiannually	Annually
MW-8	Semiannually	Annually
MW-9	Semiannually	Removed from sampling program

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.



Ross W.N. Tinline
Project Geologist
RG 5860

Attachments:
- Table 1 - Groundwater Elevation Data
- Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)
- Figure 1 - Groundwater Elevation Contour Map
- Figure 2 - TPH-g/Benzene Concentration Map
- Attachment A - Groundwater Sampling Report

cc Mr. Craig Mayfield, Alameda County Flood Control and Water Conservation District
Ms. Eva Chu, Alameda County Health Care Services
Mr. Brad Boschetto, Shell Oil Company

Table 1
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	05/09/88	334.83	8.72	326.11
	08/26/88		9.15	325.68
	10/05/88		8.54	326.29
	11/22/88		9.31	325.52
	12/09/88		9.33	325.50
	01/13/89		NM	NM
	02/10/89		8.51	326.32
	03/02/89		8.71	326.12
	04/04/89		7.93	326.90
	05/01/89		8.43	326.40
	06/01/89		8.56	326.27
	06/29/89		8.60	326.23
	08/09/89		8.43	326.40
	09/11/89		8.65	326.18
	10/10/89		8.52	326.31
	10/25/89		8.56	326.27
	12/20/89		8.80	326.03
	01/17/90		8.47	326.36
	02/23/90		8.25	326.58
	06/04/90		8.62	326.21
	11/20/90		9.50	325.33
	02/12/91		9.51	325.32
	05/06/91		8.34	326.49
	08/28/91		9.28	325.55
	11/13/91		9.59	325.24
	02/25/92		7.49	327.34
	05/12/92		8.64	326.19
	08/12/92		9.15	325.68
	11/10/92		10.04	324.79
	02/10/93		7.24	327.59
	05/10/93		7.78	327.05
	08/12/93		8.54	326.29
	11/11/93		8.56	326.27
	02/11/94		8.62	326.21
	05/17/94		7.96	326.87
	08/25/94		9.24	325.59
	11/23/94		8 74	326 09
MW-2	05/09/88	336 96	10 85	326 11
	08/26/88		11 29	325 67
	10/05/88		10 83	326 13
	11/22/88		11.42	325 54
	12/09/88		11.45	325 51
	01/13/89		NM	NM
	02/10/89		10 74	326 22
	03/02/89		10 91	326 05
	04/04/89		10 06	326 90

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-2 (cont.)	05/01/89		10.58	326.38
	05/31/89		10.73	326.23
	06/28/89		10.90	326.06
	08/08/89		10.78	326.18
	09/08/89		10.97	325.99
	10/09/89		10.88	326.08
	10/24/89		11.00	325.96
	12/21/89		11.06	325.90
	01/17/90		10.78	326.18
	02/23/90		10.35	326.61
	06/04/90		10.72	326.24
	11/20/90		11.35	325.61
	02/12/91		11.64	325.32
	05/06/91		10.05	326.91
	08/28/91		11.16	325.80
	11/13/91		11.57	325.39
	02/25/92		9.66	327.30
	05/12/92		10.97	325.99
	08/12/92		11.58	325.38
	11/10/92		12.05	324.91
	02/10/93		9.28	327.68
	05/10/93		9.65	327.31
	08/12/93		10.70	326.26
	11/11/93		11.36	325.60
	02/11/94		11.04	325.92
	05/17/94		10.29	326.67
	08/25/94		11.29	325.67
	11/23/94		10.92	326.04
MW-3	05/09/88	336.96	10.59	326.37
	08/26/88		11.10	325.86
	10/05/88		10.43	326.53
	11/22/88		11.16	325.80
	12/09/88		11.24	325.72
	01/13/89		NM	NM
	02/10/89		10.43	326.53
	03/02/89		10.59	326 37
	04/04/89		9 45	327 51
	05/01/89		10 20	326 76
	06/01/89		10 40	326.56
	06/28/89		10 60	326 36
	08/09/89		10.64	326 32
	09/11/89		10.83	326.13
	10/10/89		10.95	326 01
	10/26/89		10.86	326 10
	12/21/89		11 09	325.87
	01/17/90		10 90	326 06

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-3 (cont.)	02/23/90		10.52	326.44
	06/04/90		10.52	326.44
	11/20/90		12.65	324.31
	02/12/91		11.16	325.80
	05/06/91	336.93	9.85	327.08
	08/28/91		10.90	326.03
	11/13/91		11.28	325.65
	02/25/92		9.04	327.89
	05/12/92		10.50	326.43
	08/12/92		10.94	325.99
	11/10/92		11.84	325.09
	02/10/93		8.82	328.11
	05/10/93		8.88	328.05
	08/12/93		10.36	326.57
	11/11/93		10.64	326.29
	02/11/94		10.68	326.25
	05/17/94		9.92	327.01
	08/25/94		11.30	325.63
	11/23/94		10.48	326.45
MW-4	05/09/88	337.14	10.88	326.26
	08/26/88		11.34	325.80
	10/05/88		10.87	326.27
	11/22/88		11.41	325.73
	12/09/88		11.46	325.68
	01/13/89		NM	NM
	02/10/89		10.78	326.36
	03/02/89		10.92	326.22
	04/04/89		10.04	327.10
	05/01/89		10.52	326.62
	05/31/89		10.62	326.52
	06/28/89		11.00	326.14
	08/09/89		10.92	326.22
	09/08/89		11.05	326.09
	10/10/89		10.97	326.17
	10/26/89		11.35	325.79
	12/21/89		11 07	326.07
	01/17/90		11 08	326 06
	02/23/90		10.90	325 24
	06/04/90		10.74	326 40
	11/20/90		11.45	325 69
	02/12/91		11 50	325.64
	05/06/91		10 04	327.10
	08/28/91		11.18	325 96
	11/13/91		11 60	325 54
	02/25/92		9 45	327 69
	05/12/92		10 84	326.30

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-4 (cont.)	08/12/92		11.36	325.78
	11/10/92		12.12	325.02
	02/10/93		9.40	327.74
	05/10/93		9.54	327.60
	08/12/93		10.68	326.46
	11/11/93		11.97	325.17
	02/11/94		10.71	326.43
	05/17/94		10.30	326.84
	08/25/94		10.84	326.30
	11/23/94		10.78	326.36
MW-5	08/26/88	334.96	9.10	325.86
	10/05/88		9.95	325.01
	11/22/88		8.93	326.03
	12/09/88		10.48	324.48
	01/13/89		NM	NM
	02/10/89		10.35	324.61
	03/02/89		8.50	326.46
	04/05/89		7.72	327.24
	05/01/89		8.21	326.75
	06/01/89		8.40	326.56
	06/29/89		8.65	326.31
	08/09/89		8.76	326.20
	09/11/89		8.80	326.16
	10/10/89		11.92	323.04
	10/25/89		9.03	325.93
	12/20/89		11.26	323.70
	01/18/90		9.95	325.01
	02/23/90		8.30	326.66
	06/04/90		8.57	326.39
	11/20/90		9.45	325.51
	02/11/91		9.27	325.69
	05/06/91		7.90	327.06
	08/28/91		9.28	325.68
	11/13/91		9.36	325.60
	02/25/92		9.02	325.94
	05/12/92		8 65	326.31
	08/12/92		9 40	325 56
	11/10/92		9 68	325.28
	02/10/93		7 97	326 99
	05/10/93		7 76	327.20
	08/12/93		8 75	326 21
	11/11/93		9 32	325 64
	02/11/94		8 97	325.99
	05/17/94		8 12	326 84
	08/25/94		9 19	325.77
	11/23/94		8 78	326.18

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-6	08/26/88	335.42	9.69	325.73
	10/05/88		9.27	326.15
	11/22/88		9.77	325.65
	12/09/88		9.85	325.27
	01/13/89		NM	NM
	02/10/89		9.10	326.32
	03/02/89		9.29	326.13
	04/04/89		8.48	326.94
	05/01/89		8.90	326.52
	06/01/89		9.16	326.26
	06/29/89		9.30	326.12
	08/09/89		9.30	326.12
	09/11/89		9.31	326.11
	10/10/89		9.32	326.10
	10/24/89		9.30	326.12
	12/20/89		9.58	325.84
	01/18/90		9.46	325.96
	02/23/90		8.94	326.48
	06/04/90		9.22	326.20
	11/20/90		9.65	325.77
	02/12/91		9.85	325.57
	05/06/91		9.12	326.30
	08/28/91		9.68	325.74
	11/13/91		10.00	325.42
	02/25/92		8.44	326.98
	05/12/92		9.11	326.31
	08/12/92		9.72	325.70
	11/10/92		10.56	324.86
	02/10/93		7.65	327.77
	05/10/93		8.10	327.32
	08/12/93		9.18	326.24
	11/11/93		9.38	326.04
	02/11/94		9.02	326.40
	05/17/94		8.58	326.84
	08/25/94		9.79	325.63
	11/23/94		9.20	326.22
MW-7	08/26/88	333 23	7 94	325 29
	10/05/88		7 54	325 69
	11/22/88		NM	NM
	12/09/88		7 53	325 70
	01/13/89		NM	NM
	02/10/89		6.62	326 61
	03/02/89		7.03	326.20
	04/05/89		6.80	326 43
	05/01/89		6 53	326.70
	05/31/89		6.93	326 30

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-7 (cont.)	06/28/89		6.85	326.38
	08/09/89		6.67	326.56
	09/07/89		6.90	326.33
	10/10/89		6.90	326.33
	10/24/89		7.29	325.94
	12/20/89		7.47	325.76
	01/18/90		7.49	325.74
	02/23/90		6.92	326.31
	06/04/90		6.95	326.28
	11/20/90		8.10	325.13
	02/11/91		8.04	325.19
	05/06/91		6.37	325.86
	08/28/91		7.94	325.29
	11/13/91		8.41	324.82
	02/25/92		6.99	326.24
	05/12/92		7.42	325.81
	08/12/92		8.65	324.58
	11/10/92		8.82	324.41
	02/10/93		6.06	327.17
	05/10/93		6.68	326.55
	08/12/93		6.83	326.40
	11/11/93		6.90	326.33
	02/11/94		6.12	327.11
	05/17/94		6.06	327.17
	08/25/94		6.76	326.47
	11/23/94		6.75	326.48
MW-8	03/01/89	335.80	8.28	327.52
	04/04/89		7.31	328.49
	05/01/89		8.97	326.83
	05/31/89		9.17	326.63
	06/28/89		9.40	326.40
	08/08/89		9.42	326.28
	09/07/89		8.50	327.30
	10/10/89		9.46	326.34
	10/26/89		9.56	326.24
	12/21/89		9.57	326.23
	01/18/90		9 29	326 51
	02/26/90		8 50	327 30
	06/04/90		9.04	326 76
	02/11/91		9 40	326 40
	05/06/91		8.70	327.10
	08/28/91		9.68	326 12
	11/13/91		9 87	326 93
	02/25/92		7 45	328 35
	05/12/92		9 19	326 61
	08/12/92		9 82	325 98

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-8 (cont.)	11/10/92		10.41	325.39
	02/10/93		7.35	328.45
	05/10/93		8.00	327.80
	08/12/93		9.00	326.80
	11/11/93		9.47	326.33
	02/11/94		8.80	327.00
	05/17/94		8.21	327.59
	08/25/94		9.52	326.28
	11/23/94		9.08	326.72
MW-9	03/01/89	334.57	8.48	326.09
	04/04/89		7.69	326.88
	05/01/89		8.20	326.37
	05/31/89		8.72	325.85
	06/28/89		9.00	325.57
	08/08/89		8.53	326.04
	09/07/89		8.99	325.58
	10/09/89		8.89	325.68
	10/23/89		9.02	325.55
	12/21/89		9.48	325.09
	01/18/90		8.73	325.84
	02/26/90		9.06	325.51
	06/04/90		8.64	325.93
	11/20/90		9.95	324.62
	02/11/91		9.85	324.72
	05/06/91		10.05	324.52
	08/28/91		10.34	324.23
	11/13/91		9.39	325.18
	02/25/92		7.18	327.39
	05/12/92		8.54	326.03
	08/12/92		8.97	325.60
	11/10/92		9.61	324.96
	02/10/93		7.20	327.37
	05/10/93		7.56	327.01
	08/12/93		8.25	326.32
	11/11/93		10.30	324.27
	02/11/94		8 88	325.69
	05/17/94		8 06	326.51
	08/25/94		8 79	325 78
	11/23/94		8.65	325 92
MW-10	03/02/89	335 37	8 95	326.42
	04/04/89		7 89	327 48
	05/01/89		9 07	326.30
	06/01/89		8 86	326 51
	06/29/89		9.05	326.32

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-10 (cont.)	08/09/89		9.70	326.67
	09/07/89		8.14	327.23
	10/10/89		9.21	326.16
	10/26/89		9.60	325.77
	12/20/89		9.42	325.95
	06/90		----------Well Destroyed----------	
MW-11	03/02/89	334.20	8.30	325.90
	04/04/89		7.52	325.68
	05/01/89		7.97	326.23
	11/20/90		NM	NM
	05/31/90		8.13	326.07
	06/28/89		8.30	325.90
	08/08/89		8.22	325.98
	09/07/89		8.32	325.88
	10/09/89		8.28	325.92
	10/24/89		8.38	325.82
	12/20/89		8.48	325.72
	01/18/90		8.20	326.00
	02/26/90		7.86	326.34
	06/04/90		8.13	326.07
	11/20/90		8.83	325.37
	02/11/90		8.95	325.25
	05/06/91		7.71	326.49
	08/28/91		8.62	325.58
	11/15/91		8.99	325.21
	02/25/92		7.21	326.99
	05/12/92		8.26	325.94
	08/12/92		8.75	325.45
	11/10/92		9.47	324.73
	02/10/93		6.79	327.41
	05/10/93		7.18	327.02
	08/12/93		8.10	326.10
	11/11/93		8.56	325.64
	02/11/94		8.21	325.99
	05/17/94		7.61	326.59
	08/25/95		8.68	325.52
	11/23/94		8 27	325 93
MW-12	03/02/89	332.53	6 94	325 59
	04/04/89		6 33	326 20
	05/01/89		6 62	325 91
	06/01/89		6 82	325 71
	06/29/89		7.00	325 53
	08/09/89		6 76	325 77
	09/07/89		6 81	325.72
	10/09/89		7 11	325 42

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-12 (cont.)	10/24/89		7.60	324.93
	12/20/89		8.25	324.28
	01/18/90		8.23	324.30
	02/26/90		7.54	324.99
	06/04/90		7.96	324.57
	11/20/90		8.80	323.73
	02/12/90		7.85	324.68
	05/06/91		7.35	325.18
	08/28/91		7.79	324.74
	11/13/91		7.89	324.64
	02/25/92		6.14	326.39
	05/12/92		7.54	324.99
	08/12/92		9.83	322.70
	11/10/92		8.32	324.21
	02/10/93		6.75	325.78
	05/10/93		----- Well Inaccessible -----	
	08/12/93		6.23	326.30
	11/11/93		7.43	325.10
	02/11/94		7.18	325.35
	05/17/94		6.80	325.73
	08/25/94		7.24	325.29
	11/23/94		7.16	325.37
MW-13	05/06/91	335.64	8.37	327.27
	08/28/91		9.82	325.82
	11/13/91		10.19	325.45
	02/25/92		7.66	327.98
	05/12/92		9.16	326.48
	08/12/92		10.91	324.73
	11/10/92		10.69	324.95
	02/10/93		7.49	328.15
	05/10/93		8.06	327.58
	08/12/93		8.73	326.91
	11/11/93		9.15	326.49
	02/11/94		9.12	326.52
	05/17/94		8.62	327.02
	08/25/94		9 32	326 32
	11/23/94		9 37	326 27
RW-1	12/09/89	336 19	10 73	325 46
	01/13/89		NM	NM
	02/10/89		10 91	325 28
	03/02/89		10.15	325 04
	04/05/89		9 34	326 85
	05/01/89		9 85	326 34
	06/01/89		9 96	326 23
	06/30/89		9 90	326 29
	08/09/89		9 80	326 39

Table 1 (continued)
Groundwater Elevation Data

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
RW-1 (cont.)	09/11/89		10.02	326.17
	10/10/89		9.88	326.31
	10/25/89		9.80	326.39
	12/21/89		10.25	325.94
	01/17/89		9.80	326.39
	02/23/90		9.60	326.59
	06/04/90		9.97	326.22
	11/20/90		10.50	325.69
	02/11/91		10.87	325.32
	02/25/92		----- Well Not Gauged -----	
	05/12/92		NM	NM
	08/12/92		NM	NM
	11/10/92		NM	NM
	05/10/93		9.26	326.93
	08/12/93		NM	NM
	11/11/93		NM	NM
	02/11/94		9.98	326.21
	05/17/94		9.29	326.90
	08/25/94		10.56	325.63
	11/23/94		10.07	326.12

MSL = Mean sea level
TOC = Top of casing
NM = Not measured

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-1	05/09/88	440	120	50	NR	120
	08/26/88	200,000	4,400	260	300	450
	10/05/88	17,000	6,700	360	210	730
	11/22/88	8,000	3,900	830	250	340
	12/09/88	11,000	790	36	7.3	68
	01/13/89	8,800	3,800	110	330	90
	02/10/89	18,000	4,700	400	660	190
	03/02/89	14,000	6,100	770	320	440
	04/04/89	11,000	4,800	770	270	780
	05/01/89	11,000	2,800	880	410	780
	06/01/89	ND	ND	ND	ND	ND
	06/29/89	4,700	310	160	75	260
	08/09/89	12,000	1,300	620	830	680
	09/11/89	ND	ND	ND	ND	2.2
	10/10/89	8,700	1,100	310	180	590
	10/25/89	7,500	660	250	460	480
	12/20/89	6,200	270	110	260	220
	01/17/90	7,400	200	170	160	260
	02/23/90	1,500	130	13	30	24
	06/04/90	830	88	10	2.6	28
	11/20/90	NA	NA	NA	NA	NA
	02/12/91	1,500	180	39	82	110
	05/06/91	510	41	11	25	35
	08/28/91	450	41	16	24	34
	11/13/91	320	41	14	23	33
	02/25/92	240	24	9.2	14	20
	05/12/92	320	60	25	29	41
	08/12/92	230	26	16	20	25
	08/12/92(D)	220	25	16	19	24
	11/10/92	120	13	8.8	9	13
	02/10/93	80	3.3	2.9	2.4	5.1
	05/10/93	100	8.5	5.5	5.2	10
	08/12/93	130	10	11	8.3	32
	11/11/93	ND	ND	ND	ND	ND
	02/11/94	110[b]	12	4 6	6 4	13
	05/17/94	ND	0 53	ND	ND	0 71
	08/25/94	ND	ND	ND	ND	ND
	11/23/94	ND	0 9	ND	ND	ND
MW-2	05/09/88	ND	ND	ND	NR	ND
	08/26/88	1,700	230	16	87	120
	10/05/88	200	20	2.3	8 3	12
	11/22/88	800	93	1 6	4 3	60
	12/09/88	270	45	3 6	7.2	14
	01/13/89	180	26	2 3	17	7

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-2 (cont.)	02/10/89	320	43	1.7	34	15
	03/02/89	230	24	0.9	9.2	18
	04/04/89	230	53	2.3	7.1	20
	05/01/89	ND	2.7	ND	ND	ND
	05/31/89	120	14	ND	3.9	7.6
	06/28/89	ND	4.1	ND	ND	ND
	08/08/89	88	3.9	ND	ND	ND
	09/08/89	ND	3.2	ND	ND	ND
	10/09/89	110	6.7	ND	ND	ND
	10/24/89	ND	2.5	ND	ND	1.9
	12/21/89	ND	7.1	ND	5	9.8
	01/17/90	ND	4.4	ND	1.6	1.4
	02/23/90	70	6.3	ND	2.7	2.5
	06/04/90	60	2.4	ND	0.8	ND
	11/20/90	60	5.6	ND	ND	ND
	02/12/91	130	14	ND	0.9	0.5
	05/06/91	60	1.5	ND	5	ND
	08/28/91	100	6.3	ND	1	1.1
	11/13/91	ND	11	ND	1.3	ND
	02/25/92	ND	3.8	ND	ND	ND
	05/12/92	ND	6.0	ND	ND	ND
	08/12/92	110	6.8	ND	1.0	ND
	11/10/92	56	4.5	ND	ND	ND
	02/10/93	81	4.8	0.6	1.4	1.9
	05/10/93	90	0.8	0.8	0.6	3.2
	08/12/93	420	61	18	21	53
	11/11/93	ND	ND	ND	ND	ND
	02/11/94	ND	0.64	ND	ND	ND
	05/17/94	ND	3.0	ND	ND	0.51
	08/25/94	ND	17	ND	ND	ND
	11/23/94	ND	9.3	ND	ND	ND
MW-3	05/09/88	76	10	4.4	NR	15
	08/26/88	5,200	170	6	32	54
	10/05/88	260	100	2 7	5 8	7
	11/22/88	180	75	1 4	8.1	4
	12/09/88	160	5	5.9	ND	ND
	01/13/89	160	36	1 2	3	2
	02/10/89	300	83	ND	8.6	8
	03/02/89	570	160	1	17	9
	04/04/89	150	64	0 8	2 7	6
	05/01/89	130	48	1 2	3 4	2
	06/01/89	ND	ND	ND	ND	ND
	06/28/89	90	68	0 7	ND	5 1
	08/09/89	150	23	5 3	2 6	ND

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compound)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-3 (cont.)	09/11/89	ND	ND	ND	ND	ND
	10/10/89	80	6.4	0.72	ND	ND
	10/26/89	150	11	ND	1.6	ND
	12/21/89	ND	6.8	ND	ND	ND
	01/17/90	ND	4	ND	6.8	ND
	02/23/90	50	10	ND	1.2	0.9
	06/04/90	80	10	ND	1.4	ND
	11/20/90	100	26	0.7	1.2	1.9
	02/12/91	130	27	ND	ND	ND
	05/06/91	120	31	0.8	2.1	0.8
	08/28/91	340	87	1.1	6.5	3.8
	11/13/91	240	140	ND	3.1	0.9
	02/25/92	80	17	ND	ND	ND
	05/12/92	74	31	ND	2.6	ND
	08/12/92	160	24	0.5	2.9	ND
	11/10/92	130	27	ND	1.1	0.9
	11/10/92(D)	110	2.6	ND	1.1	0.7
	02/10/93	92	5.7	ND	ND	ND
	02/10/93(D)	80	5.2	ND	ND	ND
	05/10/93	250	100	ND	ND	ND
	05/10/93(D)	200	80	ND	2.4	ND
	08/12/93	380	110	16	13	43
	11/11/93	170	35	8.0	29	9.2
	02/11/94	76[c]	23	ND	ND	ND
	05/17/94	84[d]	26	ND	2.2	ND
	08/25/94	ND	7.7	ND	0.6	ND
	08/25/94(D)	ND	14	ND	1.5	ND
	11/23/94	ND	2.7	ND	ND	ND
MW-4	05/09/88	290	76	33	NA	150
	08/26/88	210	640	41	110	160
	10/05/88	450	110	6.3	16	20
	11/22/88	500	110	4	20	27
	12/09/88	260	920	7.5	5.9	11
	01/13/89	990	200	6 5	46	14
	02/10/89	290	90	3 6	8 8	9
	03/02/89	630	210	6 2	34	7
	04/04/89	640	340	13	25	40
	05/01/89	100	65	2	3	4
	05/31/89	60	ND	ND	ND	ND
	06/28/89	110	62	1.3	ND	4 8
	08/09/89	160	110	2	6.4	ND
	09/08/89	94	45	0 5	3 8	ND

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-4	10/10/89	90	30	1	1.9	ND
(cont.)	10/26/89	ND	3.4	ND	ND	ND
	12/21/89	ND	35	1.1	3.6	1.6
	01/17/90	ND	4	ND	6.8	ND
	02/23/90	ND	8	ND	1.1	0.7
	06/04/90	160	85	1.1	1.9	ND
	11/20/90	140	52	1	0.8	0.9
	02/12/91	130	48	ND	1.5	ND
	05/06/91	140	49	1.3	4.1	1.7
	08/28/91	90	13	ND	1	1.1
	11/13/91	ND	10	ND	ND	ND
	02/25/92	120	47	ND	0.5	0.5
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	3.5	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/11/93	190	59	3.2	3.6	3.1
	05/10/93	---------- Well Sampled Semiannually ----------				
	08/12/93	50	4.1	1.1	1.3	3.2
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/93	ND	0.62	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
	11/23/94	---------- Well Sampled Semiannually ----------				
MW-5	08/26/88	210	6	44	9	19
	10/05/88	7,500	2,700	ND	110	590
	11/22/88	150	21	26	3	2
	12/09/88	240	37	2.2	6.7	7.7
	01/13/89	80	1.6	ND	7.7	2
	02/10/89	60	ND	ND	ND	ND
	03/02/89	ND	ND	ND	ND	ND
	04/05/89	ND	ND	ND	ND	ND
	05/01/89	ND	1.3	ND	ND	ND
	06/01/89	ND	ND	ND	ND	ND
	06/29/89	ND	ND	ND	ND	ND
	08/09/89	89	8 5	1 8	1 5	2 2
	09/11/89	1.100	7 8	1 4	ND	6 3
	10/10/89	ND	ND	ND	ND	ND
	10/25/89	ND	1 4	ND	ND	1 6
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/23/90	ND	ND	ND	0 6	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	1
	02/11/91	ND	ND	ND	ND	ND

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-5 (cont.)	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	1
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	ND	ND	ND	ND	ND
	08/12/92	56	0.5	ND	ND	ND
	11/10/92	ND	ND	ND	ND	ND
	02/11/93	ND	ND	ND	ND	ND
	05/10/93	ND	1.5	ND	1.2	5.2
	09/16/93	ND	ND	ND	ND	ND
	11/11/93	ND	12	ND	1.2	ND
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	ND	ND	ND	ND	ND
	08/25/94	ND	ND	ND	ND	ND
	11/23/94	ND	ND	ND	ND	ND
MW-6	08/26/88	15,000	390	390	670	1,700
	10/05/88	2,700	130	38	960	220
	11/22/88	NA	NA	NA	NA	NA
	12/09/88	540	62	3	26	5
	01/13/89	980	160	22	120	29
	02/10/89	1,900	290	24	93	48
	03/02/89	1,400	160	20	130	33
	04/04/89	1,200	220	27	74	69
	05/01/89	790	120	11	25	17
	06/01/89	1,200	49	49	69	30
	06/29/89	940	130	15	69	35
	08/09/89	1,400	280	39	170	64
	09/11/89	ND	ND	ND	ND	ND
	10/10/89	1,000	85	11	12	16
	10/24/89	1,500	67	20	50	39
	12/20/89	ND	4.9	5.1	ND	ND
	01/18/90	ND	67	12	48	18
	02/23/90	1	150	16	47	30
	06/04/90	190	ND	ND	ND	0 6
	11/20/90	730	120	12	39	21
	02/12/91	550	65	10	33	16
	05/06/91	550	72	11	38	23
	08/28/91	580	82	7 6	28	20
	11/13/91	430	60	7 6	20	12
	02/25/92	400	52	6 6	18	11
	05/12/92	950	260	36	12	49
	08/12/92	660	90	15	55	18
	11/10/92	350	23	3 7	15	6 8
	02/11/93	660	42	11	29	17

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-6 (cont.)	05/10/93	190	ND	ND	ND	ND
	08/12/93	360	39	15	23	38
	08/12/93(D)	330	43	16	23	40
	11/11/93	ND	ND	ND	ND	ND
	02/11/94	370[b]	32	7	19	9.3
	05/17/94	ND	42	13	33	22
	08/25/94	190	0.6	ND	ND	ND
	11/23/94	310	5	1.2	1.9	ND
MW-7	08/26/88	ND	0.8	ND	ND	ND
	10/05/88	ND	ND	ND	ND	ND
	11/22/88	700	41	9	1	20
	12/09/88	ND	ND	ND	ND	0.6
	01/13/89	ND	ND	ND	ND	ND
	02/10/89	ND	ND	ND	ND	ND
	03/02/89	ND	ND	ND	ND	ND
	04/05/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/09/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/10/89	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/23/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	ND
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	52	0 8	0 9	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/11/93	ND	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	09/16/93	ND	ND	ND	ND	ND
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
	11/23/94	---------- Well Sampled Semiannually ----------				

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-8	03/01/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/08/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/10/89	ND	ND	ND	ND	ND
	10/26/89	ND	ND	ND	ND	ND
	12/21/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	ND
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	ND	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/10/93	ND	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	09/16/93	ND	0.7	ND	ND	1.4
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	1.3	ND	0.71	2.5
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
	11/23/94	---------- Well Sampled Semiannually ----------				
MW-9	03/1/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/08/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/09/89	ND	ND	ND	ND	ND
	10/23/89	ND	ND	ND	ND	ND
	12/21/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-9 (cont.)	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	ND
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	ND	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/10/93	ND	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	09/16/93	ND	ND	ND	ND	ND
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
	11/23/94	---------- Well Sampled Semiannually ----------				
MW-10	03/02/89	1,000	140	36	ND	77
	04/04/89	3,300	760	240	46	630
	05/01/89	680	99	24	8.1	32
	06/01/89	1,400	120	39	ND	45
	06/29/89	1,300	51	1.4	6.1	91
	08/09/89	860	310	26	45	82
	09/07/89	390	55	2.9	4.0	18
	10/10/89	460	85	7.6	10	45
	10/26/89	270	20	1.4	3.5	9.3
	12/20/89	ND	5.7	ND	ND	ND
	01/18/90	NA	NA	NA	NA	NA
	06/90	---------- Well Destroyed ----------				
MW-11	03/02/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	05/31/89	ND	ND	ND	ND	ND
	06/28/89	ND	ND	ND	ND	ND
	08/08/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/09/89	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

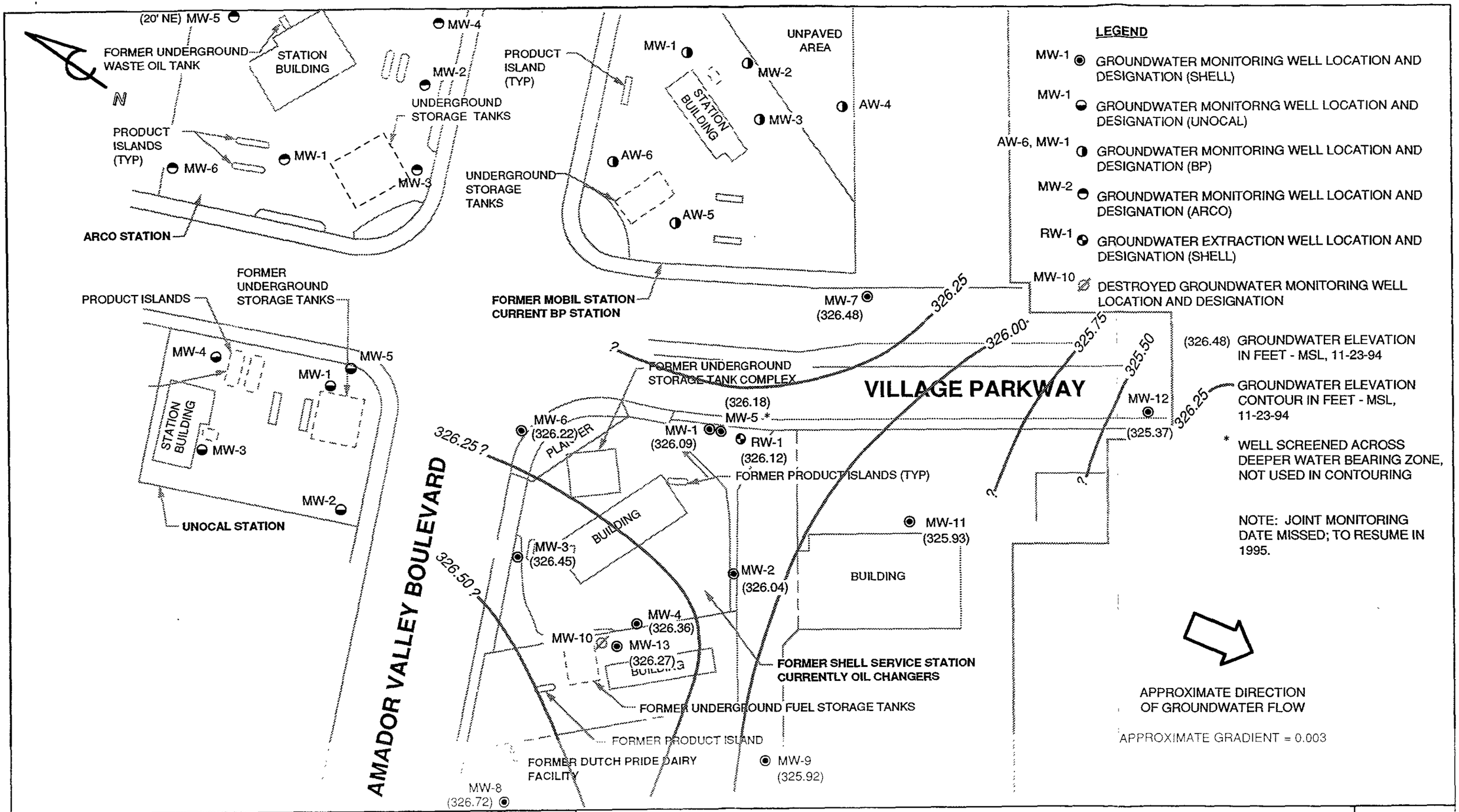
Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-11 (cont.)	02/11/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	1
	11/15/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Sampled Semiannually ----------				
	08/12/92	ND	ND	ND	ND	ND
	11/10/92	---------- Well Sampled Semiannually ----------				
	02/11/93	61[a]	ND	ND	ND	ND
	05/10/93	---------- Well Sampled Semiannually ----------				
	08/12/93	140	18	13	7.5	32
	11/11/93	---------- Well Sampled Semiannually ----------				
	02/11/94	ND	ND	ND	ND	ND
	05/17/94	---------- Well Sampled Semiannually ----------				
	08/25/94	ND	ND	ND	ND	ND
	11/23/94	---------- Well Sampled Semiannually ----------				
MW-12	03/02/89	ND	ND	ND	ND	ND
	04/04/89	ND	ND	ND	ND	ND
	05/01/89	ND	ND	ND	ND	ND
	06/01/89	ND	ND	ND	ND	ND
	06/29/89	ND	ND	ND	ND	ND
	08/09/89	ND	ND	ND	ND	ND
	09/07/89	ND	ND	ND	ND	ND
	10/09/89	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND
	12/20/89	ND	ND	ND	ND	ND
	01/18/90	ND	ND	ND	ND	ND
	02/26/90	ND	ND	ND	ND	ND
	06/04/90	ND	ND	ND	ND	ND
	11/20/90	ND	ND	ND	ND	ND
	02/12/91	ND	ND	ND	ND	ND
	05/06/91	ND	ND	ND	ND	ND
	08/28/91	ND	ND	ND	ND	1
	11/13/91	ND	ND	ND	ND	ND
	02/25/92	ND	ND	ND	ND	ND
	05/12/92	---------- Well Removed from Sampling Program ----------				
MW-13	05/06/91	1 100	430	30	41	130
	08/28/91	1 000	350	6 4	44	43
	11/13/91	680	320	5.6	38	17
	02/25/92	780	260	3 5	26	15
	05/12/92	660	210	3 5	26	5 8
	08/12/92	400	140	9 6	21	23
	11/10/92	60	220	2 9	23	11

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-13	02/11/93	970	340	11	29	32
(cont.)	05/10/93	2,300	440	ND	ND	ND
	08/12/93	8,900	670	23	76	61
	11/11/93	470	230	<2.5	27	11
	11/11/93(D)	610	190	<2.5	21	8.0
	02/11/94	200[b]	39	ND	4.7	3.9
	02/11/94(D)	290[b]	55	1.3	8.8	4.8
	05/17/94	ND	88	ND	12	10
	05/17/94(D)	ND	96	ND	13	11
	08/25/94	410	110	4.2	10	15
	11/23/94	180	66	4.8	8.2	9.8
	11/23/94(D)	240	430	6.5	11	13
RW-1	12/09/89	6,800	740	5	11	37
	01/13/89	10,000	3,200	27	60	ND
	02/10/89	6,000	2,800	ND	ND	ND
	03/02/89	3,900	2,400	ND	ND	ND
	04/05/89	1,700	1,000	ND	9	ND
	05/01/89	900	390	5	10	ND
	06/01/89	1,100	1.4	3.3	ND	13
	06/30/89	1,400	ND	ND	ND	ND
	08/09/89	7,500	1,700	210	280	300
	09/11/89	97	1.7	2.1	2.3	14
	10/10/89	1,400	48	4.5	ND	3
	10/25/89	820	51	1.2	25	3
	12/21/89	490	16	1	8.5	19
	01/17/90	ND	27	1.7	14	1.6
	02/23/90	420	42	1.8	13	2.7
	06/04/90	180	23	0.7	5.3	1.2
	11/20/90	1,900	170	52	29	38
	02/11/91	---------- Well Not Sampled ----------				

ppb = Parts per billion
NR = Not requested
ND = Not detected
NA = Not analyzed
(D) = Duplicate sample
a Laboratory noted concentration is not indicative of gasoline
b Laboratory noted result to be in the C_4-C_{12} range
c Laboratory noted results to be in the C_6 range
d See certified analytical results for hydrocarbon range
See certified analytical results for detection limits



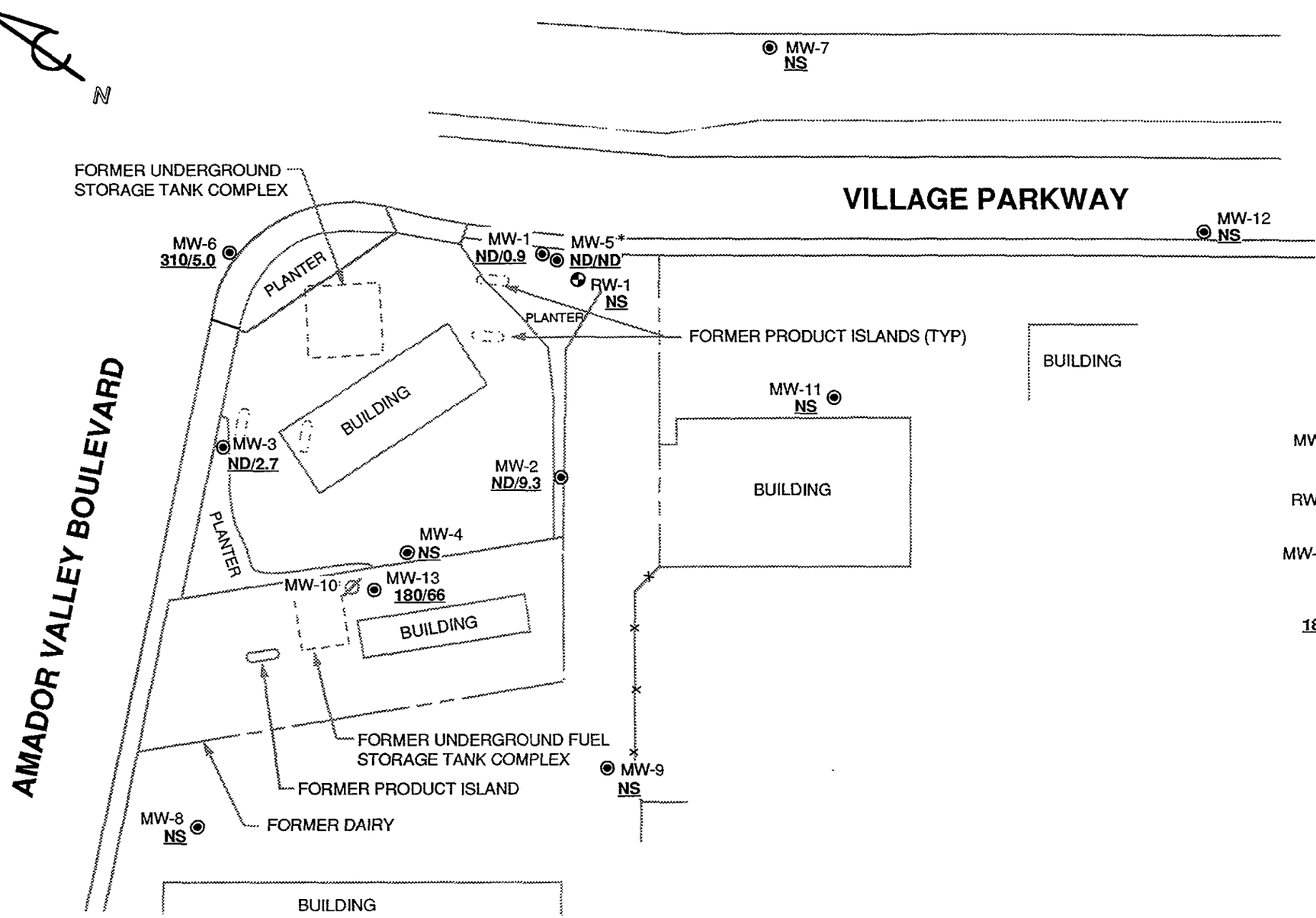
PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 60 120 FEET

FORMER SHELL SERVICE STATION
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE: 1
PROJECT: 305-087.2B



LEGEND

MW-1 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

RW-1 ◓ GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

MW-10 ⌀ DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

180/66 TPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 11-23-94

ND NOT DETECTED

NS NOT SAMPLED

* WELL SCREENED ACROSS DEEPER WATER BEARING ZONE NOT USED IN CONTOURING

APPROXIMATE DIRECTION
OF GROUNDWATER FLOW

PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 50 100 FEET

FORMER SHELL SERVICE STATION
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

TPH-g/BENZENE CONCENTRATION MAP

FIGURE: 2

PROJECT: 305-087.2B

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ATTACHMENT A

GROUNDWATER SAMPLING REPORT

BLAINE
TECH SERVICES INC.

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

December 16, 1994

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

Attn: Daniel T. Kirk

SITE:
Shell WIC #204-2217-0105
7194 Amador Valley Blvd.
Dublin, California

QUARTER:
4th quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 941123-J-3

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ) At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU) In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be obtained in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging Skimmers are installed in wells with a free product zone on the surface of the water The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements The 2 0" and 3 0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples)

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments table of well gauging data
chain of custody
certified analytical report

cc Pacific Environmental Group, Inc
2025 Gateway Place, Suite #440
San Jose, CA 95110
ATTN. Rhonda Barrick

TABLE OF WELL GAUGING DATA

WELL ID	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	11/23/94	TOC	--	NONE	--	--	8.74	25.10
MW-2	11/23/94	TOC	--	NONE	--	--	10.92	24.49
MW-3	11/23/94	TOC	--	NONE	--	--	10.48	24.18
MW-4	11/23/94	TOC	--	NONE	--	--	10.78	24.69
MW-5	11/23/94	TOC	--	NONE	--	--	8.78	44.58
MW-6	11/23/94	TOC	ODOR	NONE	--	--	9.20	22.80
MW-7	11/23/94	TOC	--	NONE	--	--	6.75	16.42
MW-8	11/23/94	TOC	--	NONE	--	--	9.08	16.04
MW-9	11/23/94	TOC	--	NONE	--	--	8.65	17.80
MW-11	11/23/94	TOC	--	NONE	--	--	8.27	16.29
MW-12	11/23/94	TOC	--	NONE	--	--	7.16	17.08
MW-13 *	11/23/94	TOC	ODOR	NONE	--	--	9.37	16.97
RW-1	11/23/94	TOC	--	NONE	--	--	10.07	30.92

* Sample DUP was a duplicate sample taken from well MW-13.

4073

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 9411 8333

Date: 11/23/94
Page 1 of 2

Site Address: 7194 Amador Valley Blvd. Dublin
WIC#: 204-2217-0105
Shell Engineer: Dan Kirk — 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:
Printed Name: JEAN GATINEAU

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
Quarterly Monitoring [X]	5461	24 hours [ ]
Site Investigation [ ]	5441	48 hours [ ]
Soil Classify/Disposal [ ]	5442	16 days [X] (Normal)
Water Classify/Disposal [ ]	5443	Other [ ]
Soil/Air Rem. or Sys. O & M [ ]	5452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M [ ]	5453	
Other [ ]		

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-1	11/23			X		3						X								
MW-2	↓			↓		↓						↓								
MW-3	↓			↓		↓						↓								
MW-5	↓			↓		↓						↓								
MW-6	↓			↓		↓						↓								
MW-13	↓			↓		↓						↓							11/28/94	[illegible]
E.B.	↓			↓		↓						↓							Seal	intact J.S.
DUP	↓			↓		↓						↓								

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
[signature]	JEAN GATINEAU	Date: 11/28 Time: 10:15	[signature]	G Plumbre	Date: 11/28 Time: 10:15
[signature]	G Plumbre	Date: 11/28 Time: 16:50	J. Sorensen	J. Sorensen	Date: 11/29/94 Time: 0700
		Date: Time:			Date: Time:

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

4073

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 941123J3

Date: 11/23/94
Page 2 of 2

Site Address: 7194 Amador Valley Blvd. Dublin

WIC#: 204-2217-0105

Shell Engineer: Dan Kirk — 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:

Printed Name: JEAN GATINEAU

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DT
Quarterly Monitoring [X]	5441
Site Investigation [ ]	5441
Soil Classify/Disposal [ ]	5442
Water Classify/Disposal [ ]	5443
Soil/Air Rem. or Sys. O & M [ ]	5462
Water Rem. or Sys. O & M [ ]	5463
Other [ ]	

TURN AROUND TIME: 24 hours [ ] · 48 hours [ ] · 16 days [X] (Normal) · Other [ ]

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

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
T.B.	11/23			X		2						X								

11/28/94 intact J.S.

Relinquished By (signature):	Printed Name:	Date: / Time:	Received (signature):	Printed Name:	Date: / Time:
Jean Gatineau	JEAN GATINEAU	11/28 / 10:15	G. Lumbre	G. LUMBRE	11/28 / 10:15
G. Lumbre	G. LUMBRE	11/28 / 16:30	J. Sorensen	J. Sorensen	11-29-94 / 07:00

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

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

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

Date: 12/07/1994
NET Client Acct. No: 1821
NET Pacific Job No: 94.05700
Received: 11/29/1994

Client Reference Information

Shell 7194 Amador Valley Blvd., Dublin/941123-J3

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. 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 welcome to contact Client Services.

Approved by:

Judy Ridley
Project Coordinator

Jim Hoch
Operations Manager

Enclosure(s)

NET®

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.05700

Date: 12/07/1994
ELAP Cert: 1386
Page: 2

Ref: Shell 7194 Amador Valley Blvd., Dublin/941123-J3

SAMPLE DESCRIPTION: MW-1
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223717

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						11/29/1994	2353
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	ND		50	ug/L	5030		11/29/1994	2353
Carbon Range:	--						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	0.9	C	0.5	ug/L	8020		11/29/1994	2353
Toluene	ND		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	ND		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	ND		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	88			% Rec.	5030		11/29/1994	2353

C : Positive result confirmed by secondary column or GC/MS analysis

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

Client Name:	Blaine Tech Services
Client Acct:	1821
NET Job No:	94.05700
Date:	12/07/1994
ELAP Cert:	1386
Page:	3

Ref: Shell 7194 Amador Valley Blvd., Dublin/941123-J3

SAMPLE DESCRIPTION: MW-2
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223718

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						11/29/1994	2353
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	ND		50	ug/L	5030		11/29/1994	2353
Carbon Range:	--						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	9.3	C	0.5	ug/L	8020		11/29/1994	2353
Toluene	ND		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	ND		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	ND		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	88			% Rec.	5030		11/29/1994	2353

C [illegible] Positive result confirmed by [illegible] MS analysis

NOTE [illegible] Results [illegible] Reproduction of this report [illegible] entirety

Ref: Shell 7194 Amador Valley Blvd., Dublin/941123-J3

SAMPLE DESCRIPTION: MW-3
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223719

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						11/29/1994	2353
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	ND		50	ug/L	5030		11/29/1994	2353
Carbon Range:	--						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	2.7	C	0.5	ug/L	8020		11/29/1994	2353
Toluene	ND		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	ND		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	ND		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	84			% Rec.	5030		11/29/1994	2353

* Positive result confirmed by secondary column or GC/MS analysis

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.05700

Date: 12/07/1994
ELAP Cert: 1386
Page: 5

Ref: Shell 7194 Amador Valley Blvd., Dublin/941123-J3

SAMPLE DESCRIPTION: MW-5
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223720

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						11/29/1994	2353
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	ND		50	ug/L	5030		11/29/1994	2353
Carbon Range:	--						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	ND		0.5	ug/L	8020		11/29/1994	2353
Toluene	ND		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	ND		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	ND		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	82			% Rec.	5030		11/29/1994	2353

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SAMPLE DESCRIPTION: MW-6
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223721

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/01/1994	2363
DILUTION FACTOR*	1						12/01/1994	2363
as Gasoline	310		50	ug/L	5030		12/01/1994	2363
Carbon Range:	C5-C12						12/01/1994	2363
METHOD 8020 (GC,Liquid)	--						12/01/1994	2363
Benzene	5.0		0.5	ug/L	8020		12/01/1994	2363
Toluene	1.2		0.5	ug/L	8020		12/01/1994	2363
Ethylbenzene	1.9		0.5	ug/L	8020		12/01/1994	2363
Xylenes (Total)	ND		0.5	ug/L	8020		12/01/1994	2363
SURROGATE RESULTS	--						12/01/1994	2363
Bromofluorobenzene (SURR)	121			% Rec.	5030		12/01/1994	2363

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SAMPLE DESCRIPTION: MW-13
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223722

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						11/29/1994	2353
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	180		50	ug/L	5030		11/29/1994	2353
Carbon Range:	C5-C12						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	66	FC	0.5	ug/L	8020		11/30/1994	2357
Toluene	4.8		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	8.2		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	9.8		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	90			% Rec.	5030		11/29/1994	2353

FC Compound quantitated at a 1/X dilution factor

NOTE Results apply only to the sample(s) analyzed. Reproduction of this report is prohibited except in full without written approval by

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SAMPLE DESCRIPTION: EB
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223723

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						11/29/1994	2353
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	ND		50	ug/L	5030		11/29/1994	2353
Carbon Range:	--						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	ND		0.5	ug/L	8020		11/29/1994	2353
Toluene	ND		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	ND		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	ND		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	83			% Rec.	5030		11/29/1994	2353

NOTE: Results apply only to the sample(s) tested. This report shall not be reproduced, except in full, without written approval of the laboratory.

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SAMPLE DESCRIPTION: DUP
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223724

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/05/1994	2373
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	240		50	ug/L	5030		11/29/1994	2353
Carbon Range:	C5-C12						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	430	FC	0.5	ug/L	8020		12/05/1994	2373
Toluene	6.5		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	11		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	13		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	94			% Rec.	5030		11/29/1994	2353

FC : Compound quantitated at a 10X dilution factor

[illegible] to the samples analyzed [illegible]

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SAMPLE DESCRIPTION: TB
Date Taken: 11/23/1994
Time Taken: 07:00
NET Sample No: 223725

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						11/29/1994	2353
DILUTION FACTOR*	1						11/29/1994	2353
as Gasoline	ND		50	ug/L	5030		11/29/1994	2353
Carbon Range:	--						11/29/1994	2353
METHOD 8020 (GC,Liquid)	--						11/29/1994	2353
Benzene	ND		0.5	ug/L	8020		11/29/1994	2353
Toluene	ND		0.5	ug/L	8020		11/29/1994	2353
Ethylbenzene	ND		0.5	ug/L	8020		11/29/1994	2353
Xylenes (Total)	ND		0.5	ug/L	8020		11/29/1994	2353
SURROGATE RESULTS	--						11/29/1994	2353
Bromofluorobenzene (SURR)	86			% Rec.	5030		11/29/1994	2353

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)							
as Gasoline	104.0	1.04	1.00	mg/L	11/29/1994	aal	2353
Benzene	104.4	5.22	5.00	ug/L	11/29/1994	aal	2353
Toluene	92.4	4.62	5.00	ug/L	11/29/1994	aal	2353
Ethylbenzene	92.6	4.63	5.00	ug/L	11/29/1994	aal	2353
Xylenes (Total)	86.7	13.0	15.0	ug/L	11/29/1994	aal	2353
Bromofluorobenzene (SURR)	96.0	96	100	% Rec.	11/29/1994	aal	2353
TPH (Gas/BTXE,Liquid)							
as Gasoline	95.0	0.95	1.00	mg/L	11/30/1994	lss	2356
Benzene	84.6	4.23	5.00	ug/L	11/30/1994	lss	2356
Toluene	96.2	4.81	5.00	ug/L	11/30/1994	lss	2356
Ethylbenzene	94.2	4.71	5.00	ug/L	11/30/1994	lss	2356
Xylenes (Total)	96.7	14.5	15.0	ug/L	11/30/1994	lss	2356
Bromofluorobenzene (SURR)	96.0	96	100	% Rec.	11/30/1994	lss	2356
TPH (Gas/BTXE,Liquid)							
as Gasoline	101.0	1.01	1.00	mg/L	12/01/1994	dfw	2357
Benzene	106.8	5.34	5.00	ug/L	12/01/1994	dfw	2357
Toluene	99.4	4.97	5.00	ug/L	12/01/1994	dfw	2357
Ethylbenzene	95.2	4.76	5.00	ug/L	12/01/1994	dfw	2357
Xylenes (Total)	92.7	13.90	15.0	ug/L	12/01/1994	dfw	2357
Bromofluorobenzene (SURR)	93.0	93	100	% Rec.	12/01/1994	dfw	2357
TPH (Gas/BTXE,Liquid)							
as Gasoline	106.0	1.06	1.00	mg/L	12/01/1994	lss	2363
Benzene	99.2	4.96	5.00	ug/L	12/01/1994	lss	2363
Toluene	98.8	4.94	5.00	ug/L	12/01/1994	lss	2363
Ethylbenzene	104.6	5.23	5.00	ug/L	12/01/1994	lss	2363
Xylenes (Total)	102.7	15.4	15.0	ug/L	12/01/1994	lss	2363
Bromofluorobenzene (SURR)	118.0	118	100	% Rec.	12/01/1994	lss	2363
TPH (Gas/BTXE,Liquid)							
as Gasoline	104.0	1.04	1.00	mg/L	12/05/1994	aal	2373
Benzene	97.6	4.88	5.00	ug/L	12/05/1994	aal	2373
Toluene	93.6	4.68	5.00	ug/L	12/05/1994	aal	2373
Ethylbenzene	104.6	5.23	5.00	ug/L	12/05/1994	aal	2373
Xylenes (Total)	101.3	15.2	15.0	ug/L	12/05/1994	aal	2373
Bromofluorobenzene (SURR)	104.0	104	100	% Rec.	12/05/1994	aal	2373

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METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	11/29/1994	aal	2353
Benzene	ND	0.5	ug/L	11/29/1994	aal	2353
Toluene	ND	0.5	ug/L	11/29/1994	aal	2353
Ethylbenzene	ND	0.5	ug/L	11/29/1994	aal	2353
Xylenes (Total)	ND	0.5	ug/L	11/29/1994	aal	2353
Bromofluorobenzene (SURR)	85		% Rec.	11/29/1994	aal	2353
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	12/01/1994	dfw	2357
Benzene	ND	0.5	ug/L	12/01/1994	dfw	2357
Toluene	ND	0.5	ug/L	12/01/1994	dfw	2357
Ethylbenzene	ND	0.5	ug/L	12/01/1994	dfw	2357
Xylenes (Total)	ND	0.5	ug/L	12/01/1994	dfw	2357
Bromofluorobenzene (SURR)	87		% Rec.	12/01/1994	dfw	2357
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	12/01/1994	lss	2363
Benzene	ND	0.5	ug/L	12/01/1994	lss	2363
Toluene	ND	0.5	ug/L	12/01/1994	lss	2363
Ethylbenzene	ND	0.5	ug/L	12/01/1994	lss	2363
Xylenes (Total)	ND	0.5	ug/L	12/01/1994	lss	2363
Bromofluorobenzene (SURR)	110		% Rec.	12/01/1994	lss	2363
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	12/05/1994	aal	2373
Benzene	ND	0.5	ug/L	12/05/1994	aal	2373
Toluene	ND	0.5	ug/L	12/05/1994	aal	2373
Ethylbenzene	ND	0.5	ug/L	12/05/1994	aal	2373
Xylenes (Total)	ND	0.5	ug/L	12/05/1994	aal	2373
Bromofluorobenzene (SURR)	95		% Rec.	12/05/1994	aal	2373

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
TPH (Gas/BTXE,Liquid)											223738
as Gasoline	115.0	99.0	14.9	1.00	ND	1.15	0.99	mg/L	11/30/1994	2356	223738
Benzene	117.5	102.6	13.5	19.4	ND	22.8	19.9	ug/L	11/30/1994	2356	223738
Toluene	115.7	103.1	11.5	80.9	ND	93.6	83.4	ug/L	11/30/1994	2356	223738
TPH (Gas/BTXE,Liquid)											223688
as Gasoline	101.0	103.0	2.0	1.00	ND	1.01	1.03	mg/L	12/01/1994	2357	223688
Benzene	109.7	108.6	1.0	27.8	ND	30.5	30.2	ug/L	12/01/1994	2357	223688
Toluene	105.3	103.3	1.9	92.8	ND	97.7	95.9	ug/L	12/01/1994	2357	223688
TPH (Gas/BTXE,Liquid)											223792
as Gasoline	99.0	92.0	7.3	1.00	ND	0.99	0.92	mg/L	12/01/1994	2363	223792
Benzene	98.6	92.0	6.9	21.2	ND	20.9	19.5	ug/L	12/01/1994	2363	223792
Toluene	98.4	92.9	5.8	86.5	ND	85.1	80.4	ug/L	12/01/1994	2363	223792
TPH (Gas/BTXE,Liquid)											223709
as Gasoline	98.0	97.0	1.0	1.00	ND	0.98	0.97	mg/L	12/05/1994	2373	223709
Benzene	98.1	95.7	2.5	21.0	ND	20.6	20.1	ug/L	12/05/1994	2373	223709
Toluene	99.4	96.7	2.8	86.7	ND	86.2	83.8	ug/L	12/05/1994	2373	223709

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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. Actual reporting limits and results have been multiplied by the listed dilution factor. **Do not** multiply the reporting limits or reported values by the dilution factor.
dw	:	Result expressed as dry weight.
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 the applicable listed reporting limit.
NTU	:	Nephelometric turbidity units.
RPD	:	Relative percent difference, 100 [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., Rev. 1, December 1987.

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

Revised September, 1993
abb.93

COOLER RECEIPT FORM

Project: 941123-J3 Log No: 4073
Cooler received on: 11/29/94 and checked on 11/29/94 by Pam Greene
(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

Temp -0.4°

Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:
MW-2	2 0.3
MW-5	3 0.3
TB	1 40.2

*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)

SHELL WELL MONITORING DATA SHEET

Project #: 94112303	Wic # 204-2217-0105
Sampler: J.G.	Date Sampled: 11/23/94
Well I.D.: MW-1	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 25.10 After	Depth to Water: Before 8.74 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC)	Grade Other --

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
where
12 = in/foot
d = diameter (in.)
π = 3.1416
231 = in3/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 5.87

10.6	x	3	=	31.8
1 Case Volume		Specified Volumes		gallons

Purging: Bailer ☐
Middleburg ☐
Electric Submersible ☒
Suction Pump ☐
Type of Installed Pump _____

Sampling: Bailer ☒
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
14:27	62.4	7.0	2600	>200	11	
14:29	61.8	6.8	2200	56,	22	
14:31	62.0	6.8	2100	35,	33	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 33

Sampling Time: 14:38

Sample I.D.: MW-1 Laboratory: NET

Analyzed for:

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 94 1123 JJ	Wic # 204-2217-0105
Sampler: JG,	Date Sampled: 11/23/94
Well I.D.: MW-2	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 24.49 After	Depth to Water: Before 10.92 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --

Volume Conversion Factor (VCF):
(12 × (d^2/4) × π)/231
Where
12 = in./feet
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"	= 5.87

1 Case Volume	x	Specified Volumes	=	gallons
8.8	x	3	=	26.4

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
15:10	63.0	6.7	2600	18.	9	
15:12	63.4	6.7	2600	16.	18	
15:14	63.0	6.8	2700	38.	27	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 27

Sampling Time: 15:20

Sample I.D.: MW-2 Laboratory: NET

Analyzed for: ~~TPHG~~, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 94112303	Wic # 204-2217-0105
Sampler: J.G.	Date Sampled: 11/23/94
Well I.D.: MW-3	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 24.18 After	Depth to Water: Before 10.48 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC)	Grade Other --

Volume Conversion Factor (VCF):
(12 × (d²/4) × π)/231
where
12 = in/foot
d = diameter (in.)
π = 3.1416
231 = in³/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 5.87

8.9	x	3	=	26.7
1 Case Volume		Specified Volumes		gallons

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☐ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
15:32	61.8	6.8	2600	>200	9	
15:34	63.0	6.8	2700	98.	18	
15:36	63.8	6.7	2800	65.	27	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 27

Sampling Time: 15:38

Sample I.D.: MW-3 Laboratory: NET

Analyzed for: TPHG, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 94112353	Wic # 204-2217-0105
Sampler: J.G.	Date Sampled: 11/23/94
Well I.D.: MW-5	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 44.58 After	Depth to Water: Before 8.78 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC)	Grade Other --

Volume Conversion Factor (VCF):

$VCF = (d^2/4) \times \pi)/231$

where

231 = in³/ft³

d = diameter (in.)

π = 3.1416

231 = in³/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 5.87

23.2	x	3	=	69.8
1 Case Volume		Specified Volumes		gallons

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☐ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
13:59	61.6	6.8	~~2500~~	57.	24	
14:06	61.0	6.8	2600	79.	48	
14:11	60.6	7.0	2800	63.	72	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 72

Sampling Time: 14:20

Sample I.D.: MW-5 Laboratory: NET

Analyzed for: TPHG BTEX

Duplicate I.D.: Cleaning Blank I.D.: E.B. @ 14:30

Analyzed for:

Shipping Notations:

Additional Notations: (SLOW RECHARGE)

SHELL WELL MONITORING DATA SHEET

Project #: 941123J3	Wic # 204-2217-0105
Sampler: J.G.	Date Sampled: 11/23/94
Well I.D.: MW-6	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 22.80 After	Depth to Water: Before 9.20 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
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"	= 5.87

1 Case Volume	x	Specified Volumes	=	gallons
8.8	x	3	=	26.4

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☒ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☒ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
15:56	63.4	6.8	2800	>200	9	ODOR
15:38	64.0	6.8	2700	>200	18	
17:00	64.8	6.8	2700	>200	27	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 27

Sampling Time: 17:04

Sample I.D.: MW-6 Laboratory: NET

Analyzed for: TPHG, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

Project #: 94112333	Wic # 204-2217-0105
Sampler: J.G.	Date Sampled: 11/23/94
Well I.D.: MW-13	Well Diameter: (circle one) 2 3 (4) 6 ____
Total Well Depth: Before 16.97 After	Depth to Water: Before 9.37 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other --	

Volume Conversion Factor (VCF):
$\{12 \times (d^2/4) \times \pi\}/231$
where
12 = in/foot
d = diameter (in.)
π = 3.1416
231 = in3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	5.87

4.9 x 3 = 14.7
1 Case Volume x Specified Volumes = gallons

Purging:	Sampling:
Bailer ☐	Bailer ☒
Middleburg ☐	Middleburg ☐
Electric Submersible ☒	Electric Submersible ☐
Suction Pump ☐	Suction Pump ☐
Type of Installed Pump ____	Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
16:17	63.2	7.0	2500	7200	5	
16:19	63.0	7.0	2000	37.	10	ODOR
16:21	64.2	7.0	2100	23.	15	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 15

Sampling Time: 16:27

Sample I.D.: MW-13 Laboratory: NET

Analyzed for: TPHG, BTEX

Duplicate I.D.: DUP @ 16:27 Cleaning Blank I.D.:

Analyzed for: TPHG, BTEX

Shipping Notations:

Additional Notations: