

APPENDIX H

SUMMARY OF PRE-2002  
GROUNDWATER SAMPLING DATA

Table H-1  
Summary of Pre-2002 VOCs  
in Groundwater Samples (ug/l)

| Well ID             | Date                | Acetone | Benzene | Toluene | Total Xylene* | Ethylbenzene | Methylene Chloride | 1,1-Dichloroethane | 1,1-Dichloroethene | Tetrachloroethene | Chloroform | Bromodichloromethane | Carbon Disulfide |
|---------------------|---------------------|---------|---------|---------|---------------|--------------|--------------------|--------------------|--------------------|-------------------|------------|----------------------|------------------|
| MW-4                | Sep-88              | -       | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
|                     | Feb-97              | ND      | 6.7     | 16      | -             | 3.3          | ND                 | ND                 | 21                 | 5.9               | ND         | ND                   | 29               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | 100              |
| MW-9                | Sep-88              | -       | ND      | ND      | ND            | ND           | 1.3C               | ND                 | ND                 | ND                | 6.5C       | ND                   | -                |
|                     | Feb-97              | ND      | 3.6     | 9.5     | -             | ND           | ND                 | ND                 | 11                 | 3.7               | ND         | ND                   | ND               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | 48               |
| MW-13               | Sep-88              | -       | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | 0.12C             | ND         | ND                   | -                |
|                     | Feb-97              | ND      | ND      | 5.2     | -             | ND           | ND                 | ND                 | 5.7                | 2.3               | ND         | ND                   | ND               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
| MW-14               | Sep-88              | -       | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
| MW-15               | Sep-88              | -       | ND      | ND      | 0.44C         | ND           | ND                 | ND                 | ND                 | ND                | 0.96C      | 0.22C                | -                |
|                     | Feb-97              | ND      | 5.6     | 14      | -             | 2.8          | ND                 | ND                 | 22                 | 5.7               | ND         | ND                   | ND               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
| NMW-1               | Dec-91              | ND      | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
|                     | Feb-97              | ND      | 10      | 20      | -             | 2.9          | ND                 | ND                 | 56                 | 6.1               | ND         | ND                   | ND               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
| NMW-2               | Dec-91              | 31      | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
| AW-1                | Dec-82              | 77      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
| AW-1 Dup            | Dec-82              | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
|                     | Aug-88              | -       | 0.19C   | 0.35C   | ND            | 0.17C        | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
| AW-2                | Dec-82              | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
|                     | Aug-88              | -       | ND      | ND      | ND            | ND           | 1.2C               | ND                 | ND                 | ND                | ND         | ND                   | -                |
| AW-3                | Dec-82              | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
|                     | Aug-88              | -       | 8.9C    | 12C     | ND            | ND           | 0.83C              | ND                 | ND                 | 0.62C             | ND         | ND                   | -                |
|                     | Feb-97              | ND      | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
| AW-4                | Dec-82              | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
|                     | Aug-88              | -       | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
|                     | Feb-97              | ND      | 4       | 10      | -             | ND           | ND                 | ND                 | 15                 | 4.2               | ND         | ND                   | ND               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
| AW-5                | Dec-82              | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
|                     | Feb-97              | ND      | 3.8     | 10      | -             | 2.1          | ND                 | ND                 | 14                 | 4.2               | ND         | ND                   | ND               |
|                     | Mar-97 <sup>†</sup> | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | ND               |
| AW-6                | Dec-82              | ND      | ND      | 2.6     | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
| AW-7                | Dec-82              | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
| AW-8                | Dec-82              | ND      | ND      | ND      | -             | ND           | ND                 | ND                 | ND                 | ND                | ND         | -                    | ND               |
| AW-8 Dup            | Aug-88              | -       | 0.66C   | 0.83C   | ND            | ND           | ND                 | 0.11C              | ND                 | ND                | ND         | ND                   | -                |
|                     | Aug-88              | -       | 2.5C    | 2.8C    | ND            | ND           | ND                 | ND                 | ND                 | 0.10C             | ND         | ND                   | -                |
|                     | Sep-88              | -       | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
| B-2                 | May-83              | ND      | ND      | ND      | -             | ND           | -                  | ND                 | ND                 | ND                | ND         | ND                   | -                |
| B-4                 | May-83              | ND      | 4.8     | 12      | -             | ND           | -                  | ND                 | ND                 | ND                | ND         | ND                   | -                |
|                     | Aug-88              | -       | 2.6C    | 5.2C    | ND            | 2.2C         | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
|                     | Sep-88              | -       | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
| B-5                 | May-83              | ND      | 3.9     | 4.3     | -             | ND           | -                  | ND                 | ND                 | ND                | ND         | ND                   | -                |
| B-6                 | May-83              | ND      | 14      | 9       | -             | 100          | -                  | ND                 | ND                 | ND                | ND         | ND                   | -                |
| B-7                 | May-83              | ND      | 160     | 70      | -             | 2100         | -                  | ND                 | ND                 | ND                | ND         | ND                   | -                |
|                     | Aug-88              | -       | ND      | ND      | ND            | 540C         | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
|                     | Sep-88              | -       | ND      | ND      | ND            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   | -                |
|                     | Feb-97              | ND      | 7.4     | 16      | -             | 6.7          | ND                 | ND                 | 33                 | 6.2               | ND         | ND                   | ND               |
| Mar-97 <sup>†</sup> | ND                  | 2.2     | ND      | -       | 13            | ND           | ND                 | ND                 | ND                 | ND                | ND         | ND                   |                  |

Table H-1  
Summary of Pre-2002 VOCs  
in Groundwater Samples (ug/l)

| Well ID          | Date    | sec-Butylbenzene | Isopropylbenzene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Trichloroethene | O-Xylene** | m,p-Xylenes** | Napthalene | n-Propylbenzene | Styrene |
|------------------|---------|------------------|------------------|-----------------------|------------------------|-----------------|------------|---------------|------------|-----------------|---------|
| MW-4             | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Feb-97  | ND               | ND               | 120                   | 3.4                    | 2.9             | 7.2        | 11            | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| MW-9             | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Feb-97  | ND               | ND               | 65                    | ND                     | ND              | 4.4        | 5.6           | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| MW-13            | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Feb-97  | ND               | ND               | 33                    | ND                     | ND              | 2.7        | 3.3           | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| MW-14            | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               |         |
| MW-15            | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Feb-97  | ND               | 3.8              | 98                    | 2.9                    | 2.4             | 6.8        | 8             | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| NMW-1            | Dec-91  | ND               | ND               | ND                    | ND                     | ND              | -          | -             | ND         | ND              | ND      |
|                  | Feb-97  | ND               | ND               | 230                   | 2.4                    | 3.8             | 7.4        | 8.1           | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| NMW-2            | Dec-91  | ND               | ND               | ND                    | ND                     | ND              | -          | -             | ND         | ND              | ND      |
| AW-1<br>AW-1 Dup | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | ND      |
| AW-2             | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
| AW-3             | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Feb-97  | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| AW-4             | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Feb-97  | ND               | ND               | 81                    | 2                      | ND              | 4.5        | 5.4           | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| AW-5             | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
|                  | Feb-97  | ND               | ND               | 81                    | 2.2                    | ND              | 4.4        | 5.5           | ND         | ND              | ND      |
|                  | Mar-97* | ND               | ND               | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |
| AW-6             | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
| AW-7             | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
| AW-8<br>AW-8 Dup | Dec-82  | -                | -                | ND                    | -                      | ND              | ND         | -             | -          | -               | ND      |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
| B-2              | May-83  | -                | -                | ND                    | -                      | ND              | ND         | ND            | ND         | ND              | ND      |
| B-4              | May-83  | -                | -                | ND                    | -                      | ND              | 7.5        | 6.2           | 8.5        | 1.6             | 0.2     |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
| B-5              | May-83  | -                | -                | ND                    | -                      | ND              | 17         | 13            | 7.8        | 40              | 0.4     |
| B-6              | May-83  | -                | -                | ND                    | -                      | ND              | ND         | ND            | 64         | 3.6             | 120     |
| B-7              | May-83  | -                | -                | ND                    | -                      | ND              | ND         | ND            | 47         | 6.7             | 1200    |
|                  | Aug-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Sep-88  | -                | -                | ND                    | -                      | ND              | -          | -             | -          | -               | -       |
|                  | Feb-97  | 5.6              | 58               | 140                   | 2.9                    | ND              | 6.6        | 7.6           | ND         | ND              | ND      |
|                  | Mar-97* | 10               | 110              | ND                    | ND                     | ND              | ND         | ND            | ND         | ND              | ND      |

This table includes all dates for which samples were analyzed for VOCs.

1982 - Samples were analyzed for "Priority Pollutant Compounds" by Ecology & Environment, Inc.

1983 - Samples were analyzed for "Purgeable Volatile Organics" by Woodward-Clyde

1988 - Samples were analyzed for VOCs by EPA Methods 601 and 602 by Radian

1991 - Samples were analyzed for VOCs by EPA Method 8240 by ISCO/ITARA

1997 - Samples were analyzed for VOCs by EPA Methods 8260 by Environmental Science & Engineering, Inc.

C: confirmed value (Radian 1988)

VOCs: volatile organic compounds

ND: not detected

-: compound not analyzed or not known to be analyzed or detected

dup: duplicate sample

ug/L: micrograms per liter

\*: Xylenes were reported as Total Xylene in 1988 and 1991

\*\* : Xylenes were reported as o-Xylene and m,p-Xylene in 1983 and 1997 and as o-Xylene in 1982

\*: March 97 data are a "resampling event" because an equipment blank in previous sampling round (Feb 97) had relatively high results for many analytes

Table H-2  
Summary of Pre-2002 SVOCs  
in Groundwater Samples (ug/l)

| Well ID  | Date   | Acenaphthene | Napthalene | Phenol     | Anthracene | Phenanthrene | Bis(2-ethylhexyl)phthalat | Pentachlorophenol |
|----------|--------|--------------|------------|------------|------------|--------------|---------------------------|-------------------|
| MW-4     | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| MW-9     | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| MW-13    | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
|          | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| MW-15    | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| NMW-1    | Dec-91 | ND           | ND         | ND         | ND         | ND           | <b>98</b>                 | <b>4.2</b>        |
|          | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| NMW-2    | Dec-91 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-1     | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-1 dup | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-2     | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-3     | Dec-82 | ND           | ND         | ND         | ND         | ND           | <b>5.3</b>                | ND                |
|          | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-4     | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
|          | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-5     | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
|          | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-6     | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-7     | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| AW-8     | Dec-82 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| B-2      | May-83 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| B-4      | May-83 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| B-5      | May-83 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| B-6      | May-83 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| B-7      | May-83 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
|          | Feb-97 | ND           | ND         | ND         | ND         | ND           | ND                        | ND                |
| B-8*     | May-83 | <b>0.5</b>   | <b>3.4</b> | <b>0.7</b> | <b>0.4</b> | <b>1.1</b>   | ND                        | ND                |

This table includes all dates for which samples were analyzed for SVOCs.

1982 - Samples were analyzed for extractible organics by GC/MS for base/neutral/acidic extractible organics by Ecology & Environment, Inc.

1983 - Samples were analyzed for extractible organics by Woodward Clyde

1988 - SVOCs were not analyzed for in samples collected in August and September

1991 - Samples were analyzed for SVOCs by EPA Method 8270 by ISCO/ITARA

1997 - Samples were analyzed for SVOCs by EPA Method 8270 by Environmental Science & Engineering, Inc.

\*: assumed to be a grab sample from boring

SVOCs: semi-volatile organic compounds

ND: not detected

-: compound not analyzed or not known to be analyzed or detected

dup: duplicate sample

ug/L micrograms per liter

Table H-3  
Summary of Pre-2002 Metals and Inorganics  
in Groundwater Samples (mg/l)

| Well ID          | Date   | Aluminum | Antimony | Arsenic | Barium  | Beryllium | Boron | Cadmium | Chromium (Total) | Chromium (Hexavalent) | Cobalt | Copper | Iron  | Lead  | Mercury | Molybdenum |
|------------------|--------|----------|----------|---------|---------|-----------|-------|---------|------------------|-----------------------|--------|--------|-------|-------|---------|------------|
| MW-4             | Sep-88 | 0.64     | 0.048    | ND      | 0.11    | ND        | 0.38B | 0.006   | ND               | -                     | ND     | 0.012  | 3.2B  | ND    | -       | ND         |
|                  | Feb-97 | -        | ND       | ND      | 0.056   | ND        | ND    | ND      | ND               | ND                    | ND     | ND     | ND    | ND    | ND      | ND         |
| NMW-1            | Dec-91 | -        | ND       | ND      | 0.00023 | ND        | -     | ND      | ND               | ND                    | ND     | ND     | -     | ND    | ND      | ND         |
|                  | Feb-97 | -        | ND       | ND      | 0.14    | ND        | ND    | ND      | ND               | ND                    | ND     | ND     | ND    | 0.009 | ND      | ND         |
| NMW-2            | Dec-91 | -        | ND       | ND      | 0.0008  | ND        | -     | ND      | ND               | ND                    | ND     | ND     | -     | ND    | ND      | ND         |
| MW-9             | Sep-88 | 0.44     | 0.056    | ND      | 0.15    | ND        | 1.4   | 0.029   | ND               | -                     | ND     | 0.033  | 1.2B  | ND    | -       | 0.057      |
|                  | Feb-97 | -        | ND       | ND      | 0.11    | ND        | ND    | ND      | ND               | ND                    | ND     | ND     | ND    | 0.009 | 0.0011  | ND         |
| MW-13            | Sep-88 | 0.32     | 0.065    | ND      | 0.094   | ND        | 2.9   | 0.01    | ND               | -                     | ND     | 0.039  | 3.5B  | ND    | -       | ND         |
|                  | Feb-97 | -        | ND       | ND      | 0.078   | ND        | ND    | ND      | ND               | ND                    | ND     | ND     | ND    | ND    | ND      | ND         |
| MW-14            | Sep-88 | 0.88     | 0.037    | ND      | 0.13    | ND        | 0.76B | 0.01    | ND               | -                     | ND     | 0.015  | 3.7B  | ND    | -       | ND         |
| MW-15            | Sep-88 | 1.3      | ND       | ND      | 0.086   | ND        | 0.60B | ND      | ND               | -                     | ND     | 0.006  | 3.88  | ND    | -       | ND         |
| AW-1<br>AW-1 Dup | Dec-82 | 0.18     | 0.05     | 0.27**  | 0.091   | ND        | 5.35  | ND      | 0.029            | -                     | 0.05   | ND     | 0.333 | ND    | ND      | -          |
|                  | Dec-82 | ND       | 0.02     | 0.18**  | 0.129   | ND        | 6.92  | ND      | 0.06             | -                     | 0.074  | ND     | 1.16  | ND    | 0.0002  | -          |
|                  | Aug-88 | 21       | 0.057    | ND      | 0.14    | 0.002     | 3.4   | ND      | 0.039            | -                     | 0.02   | 0.056  | 46    | ND    | -       | ND         |
| AW-2             | Dec-82 | 0.238    | 0.05     | 0.18**  | 0.058   | ND        | 6.54  | ND      | 0.032            | -                     | 0.045  | ND     | 1.19  | ND    | ND      | -          |
|                  | Aug-88 | 1.3      | 0.068    | ND      | 0.058   | ND        | 0.59  | ND      | ND               | ND                    | ND     | 0.011  | 9.1   | ND    | -       | ND         |
|                  | Feb-97 | -        | ND       | ND      | 0.078   | ND        | ND    | ND      | ND               | ND                    | ND     | ND     | ND    | ND    | ND      | ND         |
| AW-3             | Dec-82 | 0.302    | 0.04     | 0.18**  | 0.148   | ND        | 1.6   | ND      | 0.039            | -                     | 0.057  | ND     | 0.251 | ND    | 0.0005  | -          |
|                  | Aug-88 | 23       | 0.064    | ND      | 0.16    | 0.002     | 1.5   | ND      | 0.045            | -                     | 0.023  | 0.12   | 62    | ND    | -       | ND         |
|                  | Feb-97 | -        | ND       | ND      | 0.11    | ND        | ND    | ND      | ND               | ND                    | ND     | 0.19   | ND    | 0.011 | ND      | ND         |
| AW-4             | Dec-82 | 0.528    | 0.035    | 0.27**  | 0.126   | ND        | 3.42  | 0.0095  | 0.088            | -                     | 0.108  | ND     | 0.151 | ND    | 0.002   | -          |
|                  | Aug-88 | 9.4      | 0.06     | ND      | 0.14    | ND        | 2.7   | ND      | 0.023            | -                     | 0.01   | 0.055  | 34    | ND    | -       | ND         |
|                  | Feb-97 | -        | ND       | ND      | 0.088   | ND        | ND    | 0.013   | ND               | ND                    | ND     | 0.088  | ND    | 0.021 | ND      | ND         |
| AW-5             | Dec-82 | 0.725    | 0.1      | 0.27**  | 0.127   | 0.006     | 2.3   | 0.0062  | 0.091            | -                     | 0.132  | ND     | 0.356 | ND    | 0.0008  | -          |
|                  | Feb-97 | -        | ND       | ND      | 0.074   | ND        | ND    | ND      | ND               | ND                    | ND     | ND     | ND    | 0.006 | ND      | ND         |
| AW-6             | Dec-82 | ND       | 0.022    | 0.27**  | 0.224   | ND        | 0.796 | ND      | 0.07             | -                     | 0.09   | ND     | 0.158 | ND    | 0.0002  | -          |
| AW-7             | Dec-82 | ND       | 0.022    | 0.27**  | 0.12    | ND        | 3.09  | ND      | 0.028            | -                     | ND     | ND     | ND    | ND    | ND      | -          |
| AW-8             | Dec-82 | 0.223    | 0.035    | ND      | 0.126   | ND        | 0.277 | 7.7     | 0.058            | -                     | ND     | 0.058  | 0.116 | ND    | ND      | -          |
|                  | Aug-88 | 5.3      | 0.084    | ND      | 0.14    | ND        | 2.6   | ND      | 0.011            | -                     | ND     | 0.052  | 22    | ND    | -       | ND         |
|                  | Aug-88 | 8.4      | 0.07     | ND      | 0.16    | ND        | 2.4   | ND      | 0.019            | -                     | 0.01   | 0.046  | 29    | ND    | -       | ND         |
| B-4              | Aug-88 | 0.48     | 0.065    | ND      | 0.21    | ND        | 2.9   | ND      | 0.027            | -                     | ND     | 0.033  | 1.5   | ND    | -       | ND         |
| B-7              | Aug-88 | 1.5      | 0.073    | ND      | 0.13    | ND        | 3.2   | ND      | 0.028            | -                     | ND     | 0.092  | 11    | ND    | -       | ND         |
|                  | Feb-97 | -        | ND       | ND      | 0.12    | ND        | ND    | ND      | ND               | ND                    | ND     | 0.056  | ND    | 0.013 | ND      | ND         |
| B-8*             | May-83 | 3        | 0.02     | 0.018   | 0.1     | ND        | 2.6   | ND      | ND               | ND                    | ND     | 0.067  | 20    | 0.13  | 0.0003  | -          |

Table H-3  
Summary of Pre-2002 Metals and Inorganics  
in Groundwater Samples (mg/l)

| Well ID          | Date   | Nickel | Selenium | Silver | Thallium | Tin  | Vanadium | Zinc  | Calcium | Magnesium | Manganese | Potassium | Silicon | Sodium | Amonia | Total Dis. Solids |
|------------------|--------|--------|----------|--------|----------|------|----------|-------|---------|-----------|-----------|-----------|---------|--------|--------|-------------------|
| MW-4             | Sep-88 | ND     | ND       | ND     | ND       | -    | ND       | 0.41  | 450B    | 170       | 0.47      | 21        | 17B     | 230B   | -      | -                 |
|                  | Feb-97 | ND     | 0.018    | ND     | ND       | -    | ND       | ND    | -       | -         | -         | -         | -       | -      | -      | 5100              |
| NMW-1            | Dec-91 | ND     | ND       | ND     | ND       | -    | ND       | ND    | -       | -         | -         | -         | -       | -      | -      | -                 |
|                  | Feb-97 | ND     | ND       | ND     | ND       | -    | ND       | ND    | -       | -         | -         | -         | -       | -      | -      | 22000             |
| NMW-2            | Dec-91 | ND     | ND       | ND     | ND       | -    | ND       | ND    | -       | -         | -         | -         | -       | -      | -      | -                 |
| MW-9             | Sep-88 | ND     | ND       | 0.01   | ND       | -    | ND       | 0.1   | 230B    | 250B      | 0.88      | 74        | 7.1     | 2500B  | -      | -                 |
|                  | Feb-97 | ND     | 0.013    | ND     | ND       | -    | ND       | ND    | -       | -         | -         | -         | -       | -      | -      | 21000             |
| MW-13            | Sep-88 | ND     | ND       | ND     | ND       | -    | ND       | 0.035 | 330B    | 290B      | 0.74      | 50        | 16      | 2400B  | -      | -                 |
|                  | Feb-97 | ND     | 0.037    | ND     | ND       | -    | ND       | ND    | ND      | -         | -         | -         | -       | -      | -      | 7000              |
| MW-14            | Sep-88 | ND     | ND       | ND     | ND       | -    | ND       | 0.45  | 370B    | 250       | 0.59      | 25        | 17B     | 230B   | -      | -                 |
| MW-15            | Sep-88 | ND     | ND       | ND     | ND       | -    | 0.009    | 0.47  | 250B    | 100       | 0.19      | 22        | 10B     | 170B   | -      | -                 |
| AW-1<br>AW-1 Dup | Dec-82 | 0.076  | 0.147**  | 0.036  | ND       | ND   | ND       | 0.025 | 408     | 172       | 0.943     | -         | -       | 1970   | 3.3    | -                 |
|                  | Dec-82 | 0.107  | 0.01**   | 0.059  | ND       | ND   | ND       | 0.034 | 600     | 344       | 1.96      | -         | -       | 1240   | 3.3    | -                 |
|                  | Aug-88 | 0.023  | ND       | ND     | 0.11     | -    | 0.091    | 0.16  | 1600    | 1100      | 1.1       | 42        | 52      | 9300   | -      | -                 |
| AW-2             | Dec-82 | 0.059  | ND       | 0.046  | ND       | ND   | ND       | 0.022 | 295     | 306       | 0.841     | -         | -       | 3470   | 4.12   | -                 |
|                  | Aug-88 | ND     | ND       | ND     | ND       | -    | ND       | 0.04  | 2100    | 1000      | 0.45      | 33        | 17      | 5600   | -      | -                 |
|                  | Feb-97 | ND     | ND       | ND     | ND       | -    | ND       | ND    | -       | -         | -         | -         | -       | -      | -      | 9200              |
| AW-3             | Dec-82 | 0.111  | ND       | 0.063  | ND       | ND   | ND       | 0.023 | 817     | 127       | 2.64      | -         | -       | 2780   | 9.13   | -                 |
|                  | Aug-88 | 0.041  | ND       | ND     | 0.016    | -    | 0.09     | 0.18  | 340     | 180       | 1.4       | 84        | 56      | 300    | -      | -                 |
|                  | Feb-97 | 0.054  | ND       | ND     | ND       | -    | ND       | 0.2   | -       | -         | -         | -         | -       | -      | -      | 8200              |
| AW-4             | Dec-82 | 0.253  | ND       | 0.112  | ND       | ND   | ND       | 0.062 | 1190    | 2050      | 2.67      | -         | -       | 19000  | 6.57   | -                 |
|                  | Aug-88 | 0.022  | ND       | ND     | 0.14     | -    | 0.047    | 0.18  | 510     | 930       | 2.3       | 300       | 30      | 7600   | -      | -                 |
|                  | Feb-97 | ND     | ND       | ND     | ND       | -    | ND       | 0.15  | -       | -         | -         | -         | -       | -      | -      | 23000             |
| AW-5             | Dec-82 | 0.269  | ND       | 0.16   | ND       | ND   | ND       | 0.06  | 1800    | 1690      | 6.55      | -         | -       | 15000  | 1.2    | -                 |
|                  | Feb-97 | ND     | ND       | ND     | ND       | -    | ND       | ND    | -       | -         | -         | -         | -       | -      | -      | 20000             |
| AW-6             | Dec-82 | 0.15   | ND       | 0.078  | ND       | ND   | ND       | 0.041 | 885     | 580       | 2.46      | -         | -       | 892    | 3.45   | -                 |
| AW-7             | Dec-82 | 0.068  | ND       | ND     | ND       | 0.03 | ND       | 0.014 | 508     | 267       | 0.963     | -         | -       | 1960   | 3.79   | -                 |
| AW-8             | Dec-82 | 0.147  | ND       | 0.025  | ND       | ND   | ND       | 0.049 | 1320    | 1240      | 3.67      | -         | -       | 6520   | 13.3   | -                 |
|                  | Aug-88 | ND     | ND       | ND     | 0.12     | -    | 0.022    | 0.18  | 710     | 650       | 2.6       | 220       | 24      | 5000   | -      | -                 |
|                  | Aug-88 | 0.016  | ND       | ND     | 0.091    | -    | 0.031    | 0.17  | 680     | 620       | 2.5       | 200       | 29      | 4700   | -      | -                 |
| B-4              | Aug-88 | 0.021  | ND       | ND     | 0.063    | -    | ND       | 0.13  | 370     | 790       | 1.5       | 250       | 15      | 6600   | -      | -                 |
| B-7              | Aug-88 | 0.02   | ND       | ND     | ND       | -    | 0.01     | 0.11  | 380     | 270       | 0.71      | 57        | 20      | 300    | -      | -                 |
|                  | Feb-97 | ND     | ND       | ND     | ND       | -    | ND       | 0.092 | -       | -         | -         | -         | -       | -      | -      | 13000             |
| B-8*             | May-83 | 0.032  | ND       | ND     | 0.026    | 0.22 | 0.024    | 0.17  | -       | -         | 0.67      | -         | -       | -      | -      | -                 |

This table includes all dates for which samples were analyzed for inorganics.

1982 - Samples were analyzed for "27 inorganic elements and compounds" by Ecology & Environment, Inc.

1983 - Samples were analyzed for "general mineral analysis" by Woodward Clyde

1988 - Samples were analyzed for metals by EPA Methods 200.7 and 6010 by Radian

1991 - Samples were analyzed for priority pollutant metals by ISCO/ITARA

1997 - Samples were analyzed for dissolved metals by EPA Methods 6010 and 7000 series by Environmental Science & Engineering, Inc.

\*: assumed to be a grab sample from boring

B: Detected in reagent blank; not subtracted (Radian 1988)

ND: not detected

-: compound not analyzed or not known to be analyzed or detected

dup: duplicate sample

mg/L: milligrams per liter

\*\* : values obtained may be due to salt interferences (Ecology & Environment, 1982)

Table H-4  
Summary of Pre-2002 TPH  
in Groundwater Samples (ug/l)

| Well ID | Date   | TPH  | TRPH |
|---------|--------|------|------|
| MW-4    | Sep-88 | ND   | ND   |
|         | Feb-97 | ND   | ND   |
| MW-9    | Sep-88 | ND   | ND   |
|         | Feb-97 | ND   | ND   |
| MW-13   | Sep-88 | ND   | ND   |
|         | Feb-97 | ND   | ND   |
| MW-14   | Sep-88 | ND   | ND   |
| MW-15   | Sep-88 | ND   | ND   |
|         | Feb-97 | 770  | ND   |
| NMW-1   | Feb-97 | ND   | ND   |
| AW-1    | Sep-88 | ND   | ND   |
| AW-2    | Aug-88 | ND   | ND   |
| AW-3    | Sep-88 | ND   | ND   |
|         | Feb-97 | ND   | ND   |
| AW-4    | Feb-97 | ND   | ND   |
|         | Sep-88 | ND   | ND   |
| AW-5    | Feb-97 | ND   | ND   |
| AW-8    | Sep-88 | ND   | ND   |
| B-4     | Sep-88 | ND   | ND   |
| B-7     | Sep-88 | ND   | ND   |
|         | Feb-97 | 2100 | 2200 |

This table includes all dates for which samples were analyzed for TPH.

- 1982 - No samples were analyzed for TPH
- 1983 - No samples were analyzed for TPH
- 1988 - No TPH was detected in samples analyzed by Radian
- 1991 - No samples were analyzed for TPH
- 1997 - Samples were analyzed for TRPH by EPA Method 418.1  
by Environmental Science & Engineering, Inc.
- 1997 - Samples were analyzed for TPH by EPA Method 8015M  
by Environmental Science & Engineering, Inc.

TPH: total petroleum hydrocarbon  
 TRPH: total recoverable petroleum hydrocarbon  
 ND: not detected  
 dup: duplicate sample  
 ug/L: micrograms per liter