

Table 8. Monitoring station data, partial sediments

| Sample#        | Date    | Easting | Northing | Fe2O3T<br>weight% | MnO<br>weight% | Ag<br>ppm | Ba<br>ppm | Be<br>ppm | Bi<br>ppm | Cd<br>ppm | Co<br>ppm | Cr<br>ppm | Cs<br>ppm | Cu<br>ppm | Ga<br>ppm | Hf<br>ppm | In<br>ppm | Mo<br>ppm | Nb<br>ppm | Ni<br>ppm | Pb<br>ppm | Rb<br>ppm |
|----------------|---------|---------|----------|-------------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MON1002-300797 | 7/30/97 | 691664  | 5269253  | 1.23              | 0.37           | 0.07      | 194       | 0.3       | -0.05     | 0.42      | 8         | 6         | 0.03      | 5         | 0.5       | -0.05     | -0.05     | 0.24      | 0.03      | 8         | 12        | 0.84      |
| MON1003-170797 | 7/17/97 | 686679  | 5252275  | 0.71              | 0.11           | -0.05     | 48        | 0.6       | -0.05     | 0.44      | 14        | 3         | 0.13      | -2        | 0.4       | -0.05     | -0.05     | 0.24      | 0.02      | 7         | 13        | 0.98      |
| MON1004-060797 | 7/6/97  | 681345  | 5261923  | 3.42              | 2.38           | 0.30      | 2200      | 0.8       | -0.05     | 3.6       | 110       | -2        | 0.56      | 10        | 1.4       | -0.05     | -0.05     | 0.24      | -0.02     | 420       | 11        | 0.98      |
| MON1004-100797 | 7/10/97 | 681345  | 5261923  | 3.10              | 2.70           | 0.30      | 2600      | 0.8       | -0.05     | 4.2       | 128       | -2        | 0.48      | 11        | 1.6       | -0.05     | -0.05     | 0.24      | -0.02     | 480       | 10        | 1         |
| MON1004-140797 | 7/14/97 | 681345  | 5261923  | 3.26              | 2.84           | 0.34      | 2600      | 0.7       | -0.05     | 4         | 122       | -2        | 0.56      | 11        | 1.6       | -0.05     | -0.05     | 0.26      | 0.04      | 480       | 10        | 0.98      |
| MON1004-170797 | 7/17/97 | 681345  | 5261923  | 3.26              | 2.80           | 0.32      | 2400      | 0.8       | -0.05     | 4         | 124       | -2        | 0.54      | 11        | 1.6       | -0.05     | -0.05     | 0.24      | -0.02     | 480       | 12        | 0.98      |
| MON1004-220797 | 7/22/97 | 681345  | 5261923  | 3.42              | 2.92           | 0.28      | 2600      | 0.7       | -0.05     | 4.4       | 126       | -2        | 0.46      | 10        | 1.4       | -0.05     | -0.05     | 0.24      | -0.02     | 500       | 10        | 0.96      |
| MON1004-250797 | 7/25/97 | 681345  | 5261923  | 3.34              | 2.62           | 0.30      | 2200      | 0.7       | -0.05     | 3.8       | 112       | -2        | 0.5       | 10        | 1.3       | -0.05     | -0.05     | 0.24      | -0.02     | 420       | 11        | 0.96      |
| MON1004-300797 | 7/30/97 | 681345  | 5261923  | 3.52              | 2.62           | 0.32      | 2200      | 0.7       | -0.05     | 3.8       | 116       | -2        | 0.5       | 9         | 1.4       | -0.05     | -0.05     | 0.24      | -0.02     | 420       | 11        | 1.02      |
| MON1004-040897 | 8/4/97  | 681345  | 5261923  | 3.68              | 2.38           | 0.38      | 2200      | 0.8       | -0.05     | 3.6       | 106       | -2        | 0.56      | 6         | 1.3       | -0.05     | -0.05     | 0.22      | -0.02     | 420       | 11        | 1.14      |
| MON1004-080897 | 8/8/97  | 681345  | 5261923  | 3.24              | 2.42           | 0.32      | 2200      | 0.8       | -0.05     | 3.6       | 114       | -2        | 0.54      | 10        | 1.4       | -0.05     | -0.05     | 0.24      | -0.02     | 420       | 12        | 1.06      |
| MON1004-120897 | 8/12/97 | 681345  | 5261923  | 3.00              | 3.44           | 0.34      | 3600      | 0.7       | -0.05     | 5.8       | 160       | -2        | 0.48      | 9         | 2         | -0.05     | -0.05     | 0.22      | -0.02     | 660       | 7         | 1.02      |
| MON1004-180897 | 8/18/97 | 681345  | 5261923  | 3.38              | 3.34           | 0.26      | 3200      | 0.8       | -0.05     | 5.4       | 154       | -2        | 0.6       | 9         | 1.6       | -0.05     | -0.05     | 0.22      | -0.02     | 600       | 10        | 1.1       |
| MON1005-060797 | 7/6/97  | 689907  | 5264222  | 0.79              | 0.06           | 0.09      | 66        | 0.3       | 0.08      | 0.44      | 7         | 2         | 0.05      | 2         | 0.4       | -0.05     | -0.05     | 0.2       | -0.02     | 8         | 19        | 1.14      |
| MON1005-100797 | 7/10/97 | 689907  | 5264222  | 0.86              | 0.07           | 0.09      | 66        | 0.3       | 0.08      | 0.52      | 10        | 3         | 0.06      | 2         | 0.4       | -0.05     | -0.05     | 0.22      | -0.02     | 10        | 20        | 1.28      |
| MON1005-140797 | 7/14/97 | 689907  | 5264222  | 0.87              | 0.07           | 0.09      | 68        | 0.3       | 0.11      | 0.52      | 9         | 2         | 0.05      | 2         | 0.3       | -0.05     | -0.05     | 0.22      | -0.02     | 10        | 20        | 1.24      |
| MON1005-170797 | 7/17/97 | 689907  | 5264222  | 0.99              | 0.08           | 0.12      | 78        | 0.4       | 0.1       | 0.56      | 12        | 2         | 0.06      | 3         | 0.3       | -0.05     | -0.05     | 0.24      | 0.03      | 10        | 24        | 1.4       |
| MON1005-220797 | 7/22/97 | 689907  | 5264222  | 0.89              | 0.07           | 0.09      | 76        | 0.3       | 0.09      | 0.54      | 8         | -2        | 0.05      | 2         | 0.3       | -0.05     | -0.05     | 0.22      | -0.02     | 9         | 28        | 1.22      |
| MON1005-250797 | 7/25/97 | 689907  | 5264222  | 0.82              | 0.06           | 0.07      | 62        | 0.3       | 0.09      | 0.46      | 8         | 2         | 0.05      | 3         | 0.2       | -0.05     | -0.05     | 0.22      | -0.02     | 9         | 20        | 1.2       |
| MON1005-300797 | 7/30/97 | 689907  | 5264222  | 0.88              | 0.06           | 0.09      | 66        | 0.3       | 0.09      | 0.48      | 8         | 2         | 0.05      | 2         | 0.2       | -0.05     | -0.05     | 0.22      | -0.02     | 9         | 20        | 1.22      |
| MON1005-040897 | 8/4/97  | 689907  | 5264222  | 0.86              | 0.08           | 0.12      | 74        | 0.3       | 0.09      | 0.52      | 8         | -2        | 0.05      | 2         | 0.5       | -0.05     | -0.05     | 0.24      | 0.03      | 9         | 24        | 1.38      |
| MON1005-080897 | 8/8/97  | 689907  | 5264222  | 0.86              | 0.07           | 0.10      | 76        | 0.3       | 0.08      | 0.5       | 7         | -2        | 0.06      | 2         | 0.4       | -0.05     | -0.05     | 0.22      | -0.02     | 9         | 19        | 1.32      |
| MON1005-120897 | 8/12/97 | 689907  | 5264222  | 0.92              | 0.08           | 0.11      | 76        | 0.3       | 0.08      | 0.56      | 9         | -2        | 0.06      | 2         | 0.4       | -0.05     | -0.05     | 0.22      | -0.02     | 10        | 20        | 1.34      |
| MON1005-180897 | 8/18/97 | 689907  | 5264222  | 0.85              | 0.08           | 0.09      | 72        | 0.3       | 0.09      | 0.84      | 10        | 2         | 0.06      | 3         | 0.3       | -0.05     | -0.05     | 0.22      | -0.02     | 11        | 20        | 1.4       |
| MON1005-250897 | 8/25/97 | 689907  | 5264222  | 0.83              | 0.07           | 0.09      | 72        | 0.3       | 0.08      | 0.72      | 9         | -2        | 0.06      | 2         | 0.2       | -0.05     | -0.05     | 0.2       | -0.02     | 10        | 26        | 1.36      |

blank = no data; negative values are less than detection.

See Figure 2 for monitoring station locations

UTMs are n NAD27, Zone 19.

Fe2O3T = total Fe

| Sample#        | Sc<br>ppm | Sn<br>ppm | Sr<br>ppm | Ta<br>ppm | Th<br>ppm | Tl<br>ppm | U<br>ppm | V<br>ppm | Y<br>ppm | Zn<br>ppm | Zr<br>ppm | La<br>ppm | Ce<br>ppm | Pr<br>ppm | Nd<br>ppm | Sm<br>ppm | Eu<br>ppm | Gd<br>ppm | Tb<br>ppm | Dy<br>ppm | Ho<br>ppm | Er<br>ppm |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MON1002-300797 | 0.1       | -0.1      | 20        | -0.02     | -0.02     | 0.02      | 0.22     | 13       | 12.4     | 134       | 0.3       | 13        | 13        | 3.40      | 14        | 2.80      | 0.62      | 2.80      | 0.40      | 1.90      | 0.36      | 0.86      |
| MON1003-170797 | -0.1      | 0.1       | 18        | -0.02     | -0.02     | 0.14      | 0.88     | 7        | 12.6     | 78        | 0.11      | 9.00      | 17        | 2.60      | 11        | 2.40      | 0.44      | 2.40      | 0.38      | 1.92      | 0.40      | 1.04      |
| MON1004-060797 | 0.1       | -0.1      | 24        | -0.02     | -0.02     | 1.94      | 1.18     | 5        | 19.4     | 900       | 0.13      | 12        | 20        | 3.60      | 15        | 3.20      | 0.70      | 3.60      | 0.54      | 2.80      | 0.56      | 1.38      |
| MON1004-100797 | 0.1       | -0.1      | 26        | -0.02     | -0.02     | 2.4       | 1.16     | 5        | 18.6     | 1040      | 0.12      | 13        | 22        | 3.60      | 15        | 3.20      | 0.66      | 3.40      | 0.52      | 2.60      | 0.54      | 1.36      |
| MON1004-140797 | 0.1       | -0.1      | 26        | -0.02     | -0.02     | 2.4       | 1.22     | 5        | 18.8     | 1020      | 0.14      | 13        | 22        | 3.60      | 15        | 3.20      | 0.54      | 3.60      | 0.52      | 2.60      | 0.54      | 1.34      |
| MON1004-170797 | 0.1       | -0.1      | 26        | -0.02     | -0.02     | 2.4       | 1.2      | 5        | 18.8     | 1020      | 0.13      | 13        | 22        | 3.60      | 15        | 3.20      | 0.68      | 3.60      | 0.52      | 2.60      | 0.54      | 1.34      |
| MON1004-220797 | 0.1       | -0.1      | 26        | -0.02     | -0.02     | 2.6       | 1.02     | 5        | 18       | 1080      | 0.15      | 12        | 20        | 3.20      | 14        | 2.80      | 0.56      | 3.40      | 0.50      | 2.60      | 0.50      | 1.26      |
| MON1004-250797 | 0.1       | -0.1      | 24        | -0.02     | -0.02     | 2         | 1.18     | 5        | 18.8     | 940       | 0.13      | 13        | 20        | 3.40      | 15        | 3.00      | 0.68      | 3.60      | 0.52      | 2.60      | 0.54      | 1.32      |
| MON1004-300797 | 0.1       | -0.1      | 26        | -0.02     | -0.02     | 2         | 1.12     | 5        | 19       | 960       | 0.13      | 13        | 20        | 3.20      | 14        | 2.80      | 0.62      | 3.40      | 0.50      | 2.60      | 0.52      | 1.30      |
| MON1004-040897 | 0.1       | -0.1      | 28        | -0.02     | -0.02     | 1.98      | 0.92     | 5        | 19.4     | 920       | 0.16      | 12        | 17        | 3.20      | 13        | 2.80      | 0.60      | 3.20      | 0.50      | 2.60      | 0.50      | 1.30      |
| MON1004-080897 | 0.1       | -0.1      | 26        | -0.02     | -0.02     | 1.92      | 1.26     | 5        | 19.6     | 920       | 0.14      | 13        | 22        | 3.60      | 15        | 3.20      | 0.58      | 3.40      | 0.52      | 2.60      | 0.56      | 1.38      |
| MON1004-120897 | 0.1       | -0.1      | 32        | -0.02     | -0.02     | 3.6       | 0.62     | 6        | 15.6     | 1360      | 0.08      | 12        | 19        | 2.80      | 11        | 2.20      | 0.50      | 2.60      | 0.38      | 1.98      | 0.40      | 1.00      |
| MON1004-180897 | 0.1       | -0.1      | 30        | -0.02     | -0.02     | 3.2       | 0.72     | 6        | 17.2     | 1220      | 0.08      | 13        | 22        | 3.00      | 13        | 2.60      | 0.46      | 3.00      | 0.44      | 2.20      | 0.46      | 1.12      |
| MON1005-060797 | -0.1      | -0.1      | 19        | -0.02     | -0.02     | 0.03      | 0.66     | 3        | 12.2     | 148       | 0.24      | 9.60      | 11        | 3.00      | 13        | 2.80      | 0.46      | 3.00      | 0.44      | 2.20      | 0.42      | 1.04      |
| MON1005-100797 | -0.1      | 0.1       | 22        | -0.02     | -0.02     | 0.03      | 0.66     | 3        | 13.4     | 132       | 0.22      | 11        | 11        | 3.20      | 14        | 3.20      | 0.50      | 3.40      | 0.48      | 2.20      | 0.44      | 1.12      |
| MON1005-140797 | -0.1      | 0.1       | 22        | -0.02     | -0.02     | 0.03      | 0.66     | 3        | 13.2     | 160       | 0.24      | 11        | 12        | 3.20      | 14        | 3.20      | 0.50      | 3.20      | 0.48      | 2.40      | 0.46      | 1.16      |
| MON1005-170797 | -0.1      | -0.1      | 26        | -0.02     | -0.02     | 0.04      | 0.8      | 3        | 16.2     | 138       | 0.32      | 13        | 16        | 3.80      | 17        | 3.80      | 0.60      | 4.00      | 0.58      | 2.80      | 0.56      | 1.38      |
| MON1005-220797 | -0.1      | 0.1       | 26        | -0.02     | -0.02     | 0.03      | 0.68     | 3        | 15       | 172       | 0.24      | 12        | 13        | 3.60      | 16        | 3.40      | 0.54      | 3.60      | 0.52      | 2.60      | 0.50      | 1.24      |
| MON1005-250797 | -0.1      | 0.2       | 18        | -0.02     | -0.02     | 0.03      | 0.66     | 3        | 11.2     | 118       | 0.3       | 8.80      | 11        | 2.80      | 12        | 2.80      | 0.44      | 2.80      | 0.42      | 2.00      | 0.40      | 1.00      |
| MON1005-300797 | -0.1      | 0.1       | 22        | -0.02     | -0.02     | 0.03      | 0.72     | 3        | 13.4     | 194       | 0.28      | 11        | 13        | 3.40      | 15        | 3.20      | 0.52      | 3.40      | 0.50      | 2.40      | 0.46      | 1.18      |
| MON1005-040897 | -0.1      | -0.1      | 24        | -0.02     | -0.02     | 0.04      | 0.72     | 3        | 14.6     | 134       | 0.26      | 12        | 13        | 3.60      | 15        | 3.40      | 0.52      | 3.60      | 0.52      | 2.40      | 0.48      | 1.24      |
| MON1005-080897 | -0.1      | -0.1      | 24        | -0.02     | -0.02     | 0.04      | 0.68     | 3        | 13.8     | 160       | 0.24      | 11        | 12        | 3.40      | 15        | 3.20      | 0.52      | 3.40      | 0.50      | 2.40      | 0.48      | 1.20      |
| MON1005-120897 | -0.1      | -0.1      | 26        | -0.02     | -0.02     | 0.04      | 0.66     | 3        | 15.4     | 176       | 0.24      | 13        | 13        | 3.60      | 16        | 3.40      | 0.56      | 3.80      | 0.52      | 2.60      | 0.52      | 1.28      |
| MON1005-180897 | -0.1      | -0.1      | 24        | -0.02     | -0.02     | 0.04      | 0.74     | 3        | 14.8     | 188       | 0.3       | 11        | 14        | 3.60      | 15        | 3.40      | 0.54      | 3.60      | 0.52      | 2.60      | 0.50      | 1.22      |
| MON1005-250897 | -0.1      | -0.1      | 24        | -0.02     | -0.02     | 0.04      | 0.66     | 3        | 13.6     | 136       | 0.24      | 11        | 13        | 3.40      | 15        | 3.20      | 0.50      | 3.40      | 0.48      | 2.40      | 0.46      | 1.18      |

| Sample#        | Tm<br>ppm | Yb<br>ppm | Lu<br>ppm |
|----------------|-----------|-----------|-----------|
| MON1002-300797 | 0.11      | 0.62      | 0.09      |
| MON1003-170797 | 0.14      | 0.82      | 0.12      |
| MON1004-060797 | 0.18      | 1.06      | 0.16      |
| MON1004-100797 | 0.18      | 1.02      | 0.15      |
| MON1004-140797 | 0.18      | 1.00      | 0.16      |
| MON1004-170797 | 0.18      | 1.04      | 0.15      |
| MON1004-220797 | 0.16      | 0.94      | 0.14      |
| MON1004-250797 | 0.17      | 1.02      | 0.16      |
| MON1004-300797 | 0.17      | 0.98      | 0.15      |
| MON1004-040897 | 0.17      | 0.96      | 0.15      |
| MON1004-080897 | 0.18      | 1.04      | 0.16      |
| MON1004-120897 | 0.13      | 0.74      | 0.11      |
| MON1004-180897 | 0.15      | 0.80      | 0.13      |
| MON1005-060797 | 0.15      | 0.86      | 0.14      |
| MON1005-100797 | 0.16      | 0.94      | 0.15      |
| MON1005-140797 | 0.16      | 0.94      | 0.15      |
| MON1005-170797 | 0.19      | 1.18      | 0.19      |
| MON1005-220797 | 0.17      | 1.04      | 0.16      |
| MON1005-250797 | 0.14      | 0.84      | 0.13      |
| MON1005-300797 | 0.16      | 0.98      | 0.15      |
| MON1005-040897 | 0.17      | 1.02      | 0.16      |
| MON1005-080897 | 0.17      | 1.00      | 0.16      |
| MON1005-120897 | 0.17      | 1.04      | 0.17      |
| MON1005-180897 | 0.17      | 1.04      | 0.16      |
| MON1005-250897 | 0.16      | 0.96      | 0.15      |