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Table of results of semiquantitative spectrographic analysis of stream-sediment samples from the eastern part of the Iliamna Quadrangle, Alaska  
 Asterisk on site number indicates pan concentrate of sediment sample. Analyses by R. E. Mays and Chris Heropoulos. The following elements were looked for and not found: Cd, Sn, Zn, and Be. Rock types are: Ts, Tertiary sedimentary rocks; Tv, Tertiary volcanic rocks; Ti, Tertiary intrusive rocks; Ji, Jurassic intrusive rocks; Jv, Jurassic volcanic rocks; Ms, Mesozoic sedimentary rocks; M, metamorphic rocks; U, unmapped

| Site | Sample | Concentration in parts per million: M = major constituent (greater than 100,000 ppm) |        |       |    |     |     |    |     |    |       |       |       |     |    |    |    |       |    |    |    |    |         | Rock types in stream drainage area (in order of abundance) |        |        |        |                   |
|------|--------|--|--------|-------|----|-----|-----|----|-----|----|-------|-------|-------|-----|----|----|----|-------|----|----|----|----|---------|--|--------|--------|--------|-------------------|
|      |        | Fe   | Ti     | Mn    | Co | Cr  | Ni  | Mo | Cu  | Pb | Ag    | Ba    | Sr    | Zr  | B  | Ga | Sc | V     | Y  | Yb | Nb | Si | Al      | Mg   | Ca     | Na     | K      |                   |
| 1    | M 1566 | 100,000  | 3,000  | 1,000 | 30 | 50  | 20  | 0  | 100 | 0  | 0     | 300   | 700   | 100 | 0  | 30 | 30 | 500   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 15,000 | Ji, M             |
| 2    | 1565   | M  | 15,000 | 3,000 | 50 | 150 | 50  | 0  | 70  | 0  | 0     | 200   | 500   | 150 | 0  | 20 | 50 | 1,500 | 50 | 5  | 10 | M  | 70,000  | 30,000   | 50,000 | 15,000 | 0      | U                 |
| 3    | 1142   | 70,000   | 5,000  | 1,500 | 15 | 30  | 10  | 0  | 30  | 20 | < 0.7 | 1,500 | 700   | 150 | 0  | 20 | 20 | 200   | 30 | 3  | 0  | M  | 100,000 | 10,000   | 30,000 | 20,000 | 20,000 | U                 |
| 4    | 1143   | 70,000   | 7,000  | 3,000 | 15 | 50  | 10  | 0  | 15  | 20 | < 0.7 | 1,000 | 700   | 300 | 0  | 20 | 30 | 200   | 50 | 5  | 0  | M  | 70,000  | 10,000   | 30,000 | 15,000 | 15,000 | U                 |
| 5    | 1910   | 70,000   | 3,000  | 1,000 | 30 | 150 | 50  | 7  | 70  | 0  | 0     | 500   | 700   | 100 | 0  | 20 | 30 | 300   | 30 | 3  | 0  | M  | 70,000  | 15,000   | 50,000 | 15,000 | 10,000 | Jv, M, U          |
| 6    | 1921   | 100,000  | 5,000  | 1,500 | 30 | 200 | 70  | 5  | 150 | 0  | 0     | 700   | 500   | 100 | 0  | 30 | 50 | 300   | 30 | 3  | 0  | M  | 70,000  | 15,000   | 50,000 | 20,000 | 15,000 | Ms, M, Jv         |
| 7    | 1542   | 70,000   | 5,000  | 1,500 | 30 | 300 | 100 | 0  | 100 | 0  | 0     | 500   | 500   | 70  | 7  | 30 | 50 | 500   | 20 | 3  | 0  | M  | 100,000 | 30,000   | 50,000 | 15,000 | 7,000  | Ji, M, Ms         |
| 8    | 1541   | 100,000  | 7,000  | 1,500 | 50 | 200 | 70  | 0  | 100 | 0  | 0     | 500   | 500   | 100 | 0  | 30 | 50 | 700   | 30 | 5  | 0  | M  | 100,000 | 30,000   | 50,000 | 20,000 | 10,000 | Ji, M, Ms         |
| 9    | 1543   | 70,000   | 5,000  | 1,500 | 30 | 150 | 50  | 0  | 70  | 0  | 0     | 500   | 700   | 100 | 10 | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 15,000 | 10,000 | Ji, M, U          |
| 10   | 1544   | 100,000  | 5,000  | 1,500 | 30 | 200 | 70  | 0  | 100 | 0  | 0     | 500   | 700   | 100 | 0  | 30 | 50 | 500   | 30 | 3  | 0  | M  | 100,000 | 30,000   | 50,000 | 20,000 | 10,000 | Ji, M, U          |
| 11   | 1555   | 100,000  | 5,000  | 1,500 | 30 | 150 | 70  | 0  | 100 | 0  | < 0.7 | 700   | 500   | 100 | 15 | 20 | 30 | 300   | 30 | 3  | 0  | M  | 70,000  | 20,000   | 30,000 | 15,000 | 15,000 | Ji, M, Jv, Ms, Ti |
| 12   | 1139   | 70,000   | 5,000  | 1,500 | 20 | 150 | 30  | 0  | 100 | 0  | < 0.7 | 700   | 700   | 100 | 0  | 20 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 15,000 | Ji, M, Jv, Ms, Ti |
| 13   | 1140   | 70,000   | 5,000  | 3,000 | 20 | 50  | 15  | 0  | 100 | 30 | < 0.7 | 700   | 700   | 100 | 20 | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 30,000 | 15,000 | 15,000 | Ji, M, Jv, Ti     |
| 14   | 1553   | 100,000  | 5,000  | 1,500 | 30 | 50  | 15  | 0  | 100 | 0  | 0     | 300   | 700   | 300 | 0  | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 0      | Ji                |
| 15   | 1552   | 100,000  | 7,000  | 1,500 | 30 | 50  | 15  | 0  | 50  | 0  | 0     | 300   | 700   | 150 | 0  | 30 | 30 | 500   | 30 | 3  | 10 | M  | 100,000 | 20,000   | 50,000 | 15,000 | 0      | Ji                |
| 16   | 1138   | M  | 5,000  | 3,000 | 30 | 50  | 15  | 0  | 50  | 0  | < 0.7 | 500   | 1,000 | 700 | 0  | 30 | 20 | 500   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 30,000 | 20,000 | 7,000  | Ji                |
| 17   | 1546   | 70,000   | 3,000  | 1,500 | 20 | 50  | 20  | 0  | 30  | 0  | 0     | 500   | 1,000 | 70  | 0  | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 10,000 | Ji, M             |
| 18   | 1545   | 70,000   | 3,000  | 1,500 | 20 | 70  | 20  | 0  | 30  | 0  | 0     | 500   | 1,000 | 100 | 7  | 30 | 30 | 300   | 20 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 10,000 | Ji, M             |
| 19   | 1547   | 70,000   | 5,000  | 1,500 | 20 | 50  | 20  | 0  | 50  | 0  | 0     | 500   | 700   | 100 | 0  | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 10,000 | Ji                |
| 20   | 1548   | 100,000  | 7,000  | 1,500 | 30 | 70  | 20  | 0  | 50  | 0  | 0     | 500   | 700   | 300 | 0  | 30 | 30 | 500   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 15,000 | Ji                |
| 21   | 1549   | 50,000   | 3,000  | 1,000 | 20 | 50  | 20  | 0  | 70  | 0  | 0     | 700   | 700   | 150 | 0  | 30 | 20 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 15,000 | Ji                |
| 22   | 1559   | 100,000  | 5,000  | 1,500 | 20 | 50  | 15  | 0  | 70  | 0  | 0     | 300   | 700   | 150 | 7  | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 15,000 | 0      | Ji                |
| 23   | 1558   | 100,000  | 5,000  | 1,500 | 20 | 30  | 15  | 0  | 50  | 0  | 0     | 500   | 700   | 200 | 0  | 20 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 15,000 | 0      | Ji                |
| 24   | 1550   | 70,000   | 5,000  | 1,500 | 30 | 50  | 15  | 0  | 70  | 0  | 0     | 500   | 700   | 150 | 0  | 30 | 30 | 500   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 7,000  | Ji                |
| 25   | 113    | 70,000   | 10,000 | 1,500 | 15 | 20  | 15  | 0  | 20  | 0  | 0     | 300   | 700   | 100 | 0  | 20 | 20 | 150   | 30 | 3  | 0  | M  | M       | 50,000   | 30,000 | 20,000 | 0      | Ji                |
| 26   | 1531   | 70,000   | 3,000  | 1,000 | 20 | 50  | 15  | 0  | 50  | 0  | 0     | 500   | 700   | 200 | 10 | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 15,000 | Ji                |
| 27   | 1529   | 50,000   | 3,000  | 1,500 | 15 | 50  | 15  | 0  | 30  | 0  | 0     | 500   | 1,000 | 200 | 10 | 30 | 20 | 200   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 15,000 | Ji                |
| 28   | 1530   | M  | 5,000  | 1,500 | 30 | 70  | 20  | 0  | 50  | 0  | 0     | 500   | 700   | 700 | 15 | 50 | 30 | 700   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 15,000 | Ji                |
| 29   | 110    | 50,000   | 5,000  | 1,500 | 10 | 30  | 10  | 0  | 20  | 0  | 0     | 700   | 1,000 | 100 | 0  | 15 | 15 | 150   | 20 | 2  | 0  | M  | M       | 10,000   | 20,000 | 20,000 | 15,000 | Tv                |
| 30   | 111    | 50,000   | 7,000  | 1,500 | 15 | 50  | 20  | 0  | 30  | 10 | 0     | 700   | 1,000 | 70  | 0  | 20 | 20 | 150   | 20 | 3  | 0  | M  | M       | 20,000   | 20,000 | 20,000 | 15,000 | Tv, Ts, Ti, Ji    |
| 31   | 112    | 70,000   | 200    | 1,500 | 20 | 70  | 30  | 0  | 20  | 15 | 0     | 500   | 700   | 150 | 0  | 20 | 30 | 200   | 30 | 3  | 0  | M  | M       | 30,000   | 20,000 | 10,000 | 10,000 | Tv, Ts, Ti, Jv    |
| 32   | 1538   | 100,000  | 7,000  | 2,000 | 30 | 100 | 50  | 0  | 300 | 30 | 1     | 700   | 500   | 200 | 20 | 50 | 20 | 500   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 20,000 | 15,000 | 20,000 | Tv, Ts, Ti, Ji    |
| 33   | 1539   | 100,000  | 5,000  | 1,500 | 30 | 100 | 50  | 0  | 300 | 30 | 1     | 700   | 700   | 150 | 20 | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 30,000 | 20,000 | 15,000 | Tv, Ts, Ti, Ji    |
| 34   | 1551   | 70,000   | 5,000  | 1,000 | 30 | 70  | 30  | 0  | 70  | 20 | 0     | 700   | 300   | 150 | 70 | 30 | 20 | 300   | 30 | 3  | 0  | M  | 70,000  | 10,000   | 20,000 | 15,000 | 20,000 | Ji, Ti, Ts        |
| 35   | 1564   | 100,000  | 5,000  | 2,000 | 30 | 100 | 30  | 0  | 150 | 0  | 0     | 200   | 700   | 70  | 15 | 30 | 50 | 500   | 50 | 5  | 0  | M  | 100,000 | 20,000   | 70,000 | 20,000 | 0      | Ji, M             |
| 36   | 1568   | 100,000  | 5,000  | 1,500 | 30 | 200 | 70  | 0  | 100 | 0  | 0     | 300   | 500   | 150 | 0  | 30 | 50 | 500   | 50 | 5  | 0  | M  | 100,000 | 20,000   | 50,000 | 15,000 | 10,000 | M, U              |
| 37   | 1569   | M  | 10,000 | 3,000 | 30 | 150 | 50  | 0  | 100 | 0  | 0     | 300   | 500   | 150 | 0  | 30 | 50 | 700   | 30 | 5  | 0  | M  | 100,000 | 30,000   | 50,000 | 20,000 | 10,000 | Ji, Ms, M         |
| 38   | 1570   | M  | 10,000 | 2,000 | 50 | 200 | 50  | 0  | 100 | 0  | 0     | 300   | 500   | 150 | 0  | 30 | 30 | 1,000 | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 15,000 | U                 |
| 39   | 1571   | 70,000   | 5,000  | 1,000 | 20 | 100 | 30  | 0  | 100 | 0  | 0     | 500   | 1,500 | 100 | 20 | 30 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 15,000 | U                 |
| 40   | 1916   | 100,000  | 5,000  | 1,500 | 30 | 150 | 50  | 5  | 100 | 0  | 0     | 500   | 700   | 150 | 0  | 30 | 50 | 500   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 20,000 | 15,000 | U                 |
| 41   | 1917   | M  | 10,000 | 3,000 | 70 | 500 | 150 | 0  | 70  | 0  | 0     | 200   | 500   | 150 | 0  | 30 | 50 | 1,000 | 30 | 3  | 0  | M  | 70,000  | 30,000   | 50,000 | 15,000 | 0      | Ji, Jv, Ms, U     |
| 42   | 1918   | 100,000  | 5,000  | 1,500 | 30 | 200 | 70  | 5  | 100 | 0  | 0     | 300   | 2,000 | 100 | 15 | 20 | 30 | 500   | 50 | 3  | 0  | M  | 70,000  | 20,000   | 70,000 | 20,000 | 15,000 | Ms, Ji            |
| 43   | 1919   | M  | 7,000  | 2,000 | 50 | 100 | 50  | 5  | 50  | 0  | 0     | 300   | 700   | 300 | 0  | 30 | 50 | 700   | 50 | 5  | 0  | M  | 70,000  | 15,000   | 50,000 | 15,000 | 10,000 | Ji                |
| 44   | 1141   | 70,000   | 5,000  | 2,000 | 15 | 30  | 10  | 0  | 15  | 0  | 0     | 700   | 500   | 150 | 0  | 20 | 20 | 200   | 30 | 3  | 0  | M  | 70,000  | 15,000   | 30,000 | 15,000 | 15,000 | Ji                |
| 45   | 1527   | 50,000   | 3,000  | 1,500 | 20 | 50  | 15  | 0  | 30  | 0  | 0     | 500   | 700   | 100 | 0  | 30 | 30 | 200   | 30 | 3  | 0  | M  | 100,000 | 20,000   | 50,000 | 15,000 | 15,000 | Ji, M             |
| 46   | 1914   | 70,000   | 5,000  | 1,500 | 20 | 150 | 50  | 5  | 50  | 0  | 0     | 500   | 1,000 | 150 | 0  | 30 | 30 | 300   | 50 | 5  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 10,000 | U                 |
| 47   | 1915   | 70,000   | 3,000  | 1,000 | 30 | 100 | 50  | 5  | 70  | 0  | 0     | 500   | 700   | 150 | 10 | 20 | 30 | 300   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 15,000 | 15,000 | Ji, Jv, M, Ms     |
| 48   | 1554   | 70,000   | 3,000  | 700   | 20 | 70  | 20  | 0  | 50  | 0  | 1     | 500   | 700   | 100 | 0  | 20 | 30 | 200   | 30 | 3  | 0  | M  | 100,000 | 15,000   | 50,000 | 20,000 | 15,000 | Ji, M             |
| 49   | 1912   | 100,000  | 5,000  | 1,000 | 30 | 100 | 30  | 0  | 70  | 0  | 0     | 500   | 700   | 150 | 0  | 30 | 30 | 500   | 50 | 5  | 0  | M  | 70,000  | 15,000   | 50,000 | 15,000 | 10,000 | Ji, M, U          |
| 50   | 1913   | 100,000  | 5,000  | 2,000 | 30 | 200 | 70  | 0  | 50  | 0  | 0     | 300   | 1,000 | 150 | 0  | 30 | 50 | 500   | 50 | 5  | 0  |    |         |  |        |        |        |                   |