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| Table S2: Multiple linear regression results of several metals in lake water from the Giant Mine, Yellowknife, NT, region, and the independent variables Bedrock Category and Distance to Roaster Stack (Ln transformed). |
| Dependent Variable | Adj. r2 | SEEST | F | p | Predictor variables | Coefficient ± SE | p(partial) |
| Ln As | 0.69 | 0.74 | 27.4 | 1.1E-06a | Distance | -2.6 ± 0.4 | 2.4E-06a |
|  |  |  |  |  | Bedrock | 0.7 ± 0.2 | 6.6E-03a |
|  |  |  |  |  | Constant | 6.4 ± 0.6 | 1.6E-10a |
| Ln Sb | 0.76 | 0.44 | 39.9 | 4.8E-08a | Distance | -1.6 ± 0.2 | 1.7E-06a |
|  |  |  |  |  | Bedrock | 0.3 ± 0.1 | 8.2E-02 |
|  |  |  |  |  | Constant | 2.1 ± 0.3 | 3.7E-06a |
| Ln SO42- | 0.65 | 0.85 | 45.5 | 7.0E-07a | Distance | -b | -b |
|  |  |  |  |  | Bedrock | -1.1 ± 0.2 | 7.0E-07a |
|  |  |  |  |  | Constant | 3.7 ± 0.5 | 3.3E-08a |
| Ln MeHg | 0.27 | 0.94 | 10.0 | 4.3E-03a | Distance | -0.9 ± 0.3 | 4.3E-03a |
|  |  |  |  |  | Bedrock | -b | -b |
|  |  |  |  |  | Constant | 0.1 ± 0.7 | 8.4E-01 |
| Ln THg | 0.00 | 0.48 | - | - | Distance | -b | -b |
|  |  |  |  |  | Bedrock | -b | -b |
|  |  |  |  |  | Constant | 0.2 ± 0.1 | 4.2E-02a |
| a statistically significant (p<0.05) |
| b removed in stepwise regression |