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Lake Water Geochemical Database, Peterlong Lake-Radisson Lake Area, Southern Abitibi Subprovince; Miscellaneous Release-Data 25

These data complement till geochemical data released as MRD 24, lake sediment data released as MRD 27, and Open File Report 5942

This CD contains data from the analysis of lake water samples collected as part of a lake water/sediment sampling program in the southern Abitibi Subprovince, Ontario in the summer of 1995

(Hamilton 1995). The study area encompassed an area of approximately 2100 km² and included all of the NTS map sheets 42 A/3 (Peterlong Lake) and 42 A/2 (Radisson Lake).

Samples were collected at a depth of 2 m with a Van Doren sampler where possible. Where lakes were shallower than 2 m, samples were collected at surface. Samples were kept cool in ice-filled coolers and were filtered with 0.45 µm cellulose acetate filters and acidified to approximately 1% HNO₃ within 24 hours. pH and electrical conductivity were also measured within 24 hours of sample collection.

The file "PR-WATER.WK1" contains field and laboratory data for 895 lake water samples. Also included are dates from the analysis of 142 quality control (QC) samples which include: blanks; equipment blanks (filtration equipment); blind duplicates; laboratory duplicates; method duplicates (i.e. resampling of selected lakes); and SLRS-3 certified reference standards.

Data listed in "PR-WATER.WK1" includes field code, easting, northing, secchi depth, lake depth, water colour, field pH, field conductivity and analytical data for 47 elements.

Water samples were not collected on all lakes where sediment samples were collected and samples were not collected sequentially.

As a result, gaps exist within the lake code sequence. Sediment data will be released at a later date when it becomes available.

If any problems occur, please contact the primary author at:

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REFERENCES:

Hamilton 1995; High density lake sediment and lake water geochemical sampling of the Peterlong and Radisson lakes area, southern Abitibi Subprovince; in Summary of Field Work and Other Activities 1995, Ontario Geological Survey, Miscellaneous Paper 164, p. 188-189.