

PUBLICATION RELEASE: March 2019

Updated OF 2018-5 (online)

2017 21G 07 Till Pebble Lithology Release

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Follow-up till geochemical data for the eastern portion of the McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick

W.F. Gilmore, S. Allard, A.G. Pronk, and S.L.E. Rossiter (xlsx and pdf formats). To purchase this report on CD-ROM refer to page 3 of this notice.

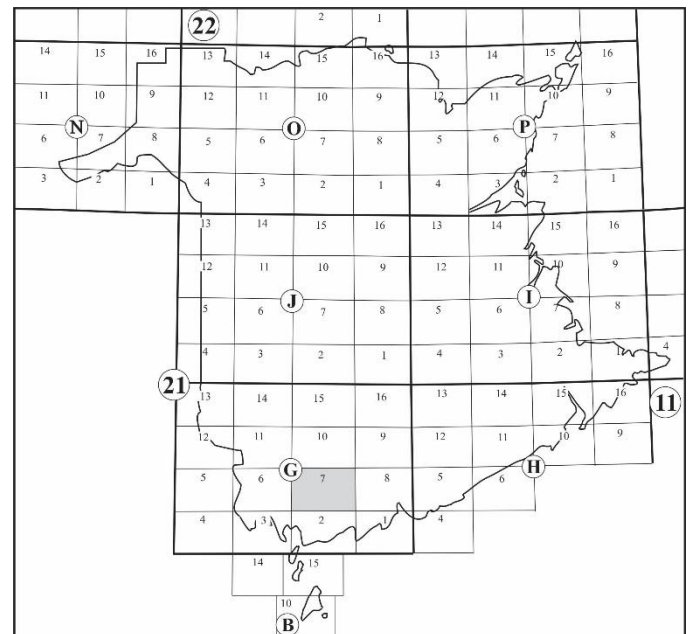
A reconnaissance till geochemistry survey (one site per 4 km²), conducted during the summer field seasons of 2000–2001 by the Geological Surveys Branch (GSB) (Pronk et al, 2002), identified numerous multi-element anomalies in the McDougall Lake region of southwestern New Brunswick. The underlying bedrock in the area comprises Ordovician to Silurian sedimentary and volcanic rocks, which are prospective for tin and tungsten, and various Devonian granites.

In a follow-up till geochemical survey conducted in 2017, GSB collected 274 samples for geochemical analysis within the eastern portion of the McDougall Lake quadrangle (NTS 21 G/07). This survey, which increased the sample density of the area to approximately one site per 1 km², should help to better define the anomalous areas identified in 2000–2001 and increase the possibility of delineating previously unknown areas of prospective mineralization.

Samples were prepared (dried and sieved) at GSB laboratory facilities (Fredericton, New Brunswick). AGAT Laboratories (Mississauga, Ontario) was contracted to conduct geochemical analysis for 58 elements by ICP-OES/ICP-MS following sodium peroxide fusion digestion. Gold was analyzed by ICP-MS following 3-acid digestion. Additionally, 274 till samples collected in 2000–2001 were sent for re-analysis (same method of analysis as described above).

Two Microsoft Excel files contain the results from the geochemical analyses, site card data, grain size analysis data, and pebble lithology data.

The results from till pebble lithology analysis are now included with the '2017_21G07_Till_Sample_Data' spreadsheet.



grey shading on map denotes study area

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