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Follow-up till geochemical data for the western portion of the Fredericton map area (NTS 21 G/15), southern New Brunswick.

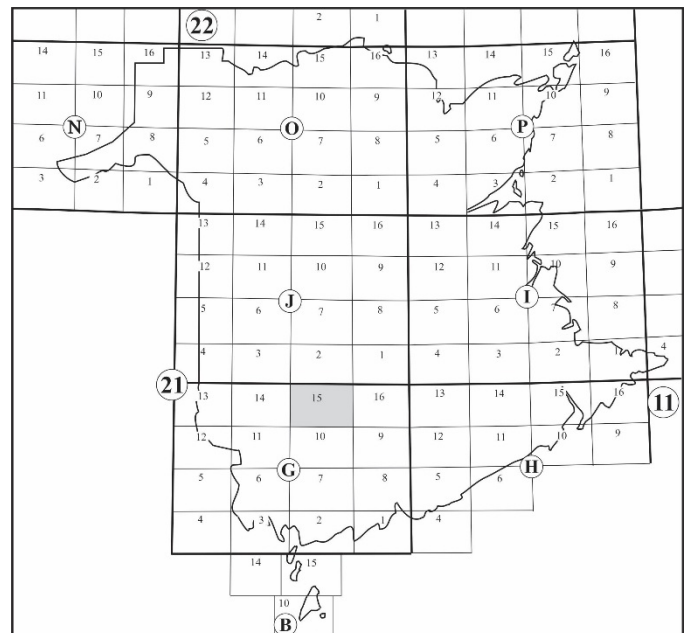
W.F. Gilmore, A.G. Pronk, S. Allard, and L. Hawkins (xlsx and pdf formats). To purchase this report on CD-ROM refer to page 3 of this notice.

During the summer field season of 2008, the New Brunswick Geological Surveys Branch (GSB) conducted a reconnaissance scale 10km sample grid (1 sample / 100 km²) till geochemistry survey on the 21G/15 map area, to help determine where or whether future, more detailed till sampling projects should be conducted in certain areas. Data collected during this survey, along with new, current activity by prospectors in certain areas of the mapsheet, caused us to revisit the western portion of the NTS 21 G/15 mapsheet to collect additional till samples, which should help better define the anomalous areas and increase the possibility of delineating previously unknown areas of prospective mineralization. The eastern portion of the 21 G/15 (Fredericton) mapsheet is underlain by Carboniferous bedrock, whereas the western portion is underlain by Silurian sedimentary rocks with potential mineralization.

In a follow-up till geochemical survey conducted during the summer of 2019, GSB collected till samples from 135 sites (140 samples total) throughout the western portion of the Fredericton mapsheet (NTS 21 G/15) for geochemical analysis. The survey increased the sample density of the area to approximately 1 sample per 4 km².

Samples were prepared (dried and sieved) in 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, and 48 elements by ICP/ICP-MS following 4-acid digestion. Gold was analyzed by ICP-MS following aqua regia digestion. Additionally, the nine till samples collected in 2008 on the Fredericton mapsheet were sent for re-analysis (same method of analysis as described above).



grey shading on map denotes study area

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