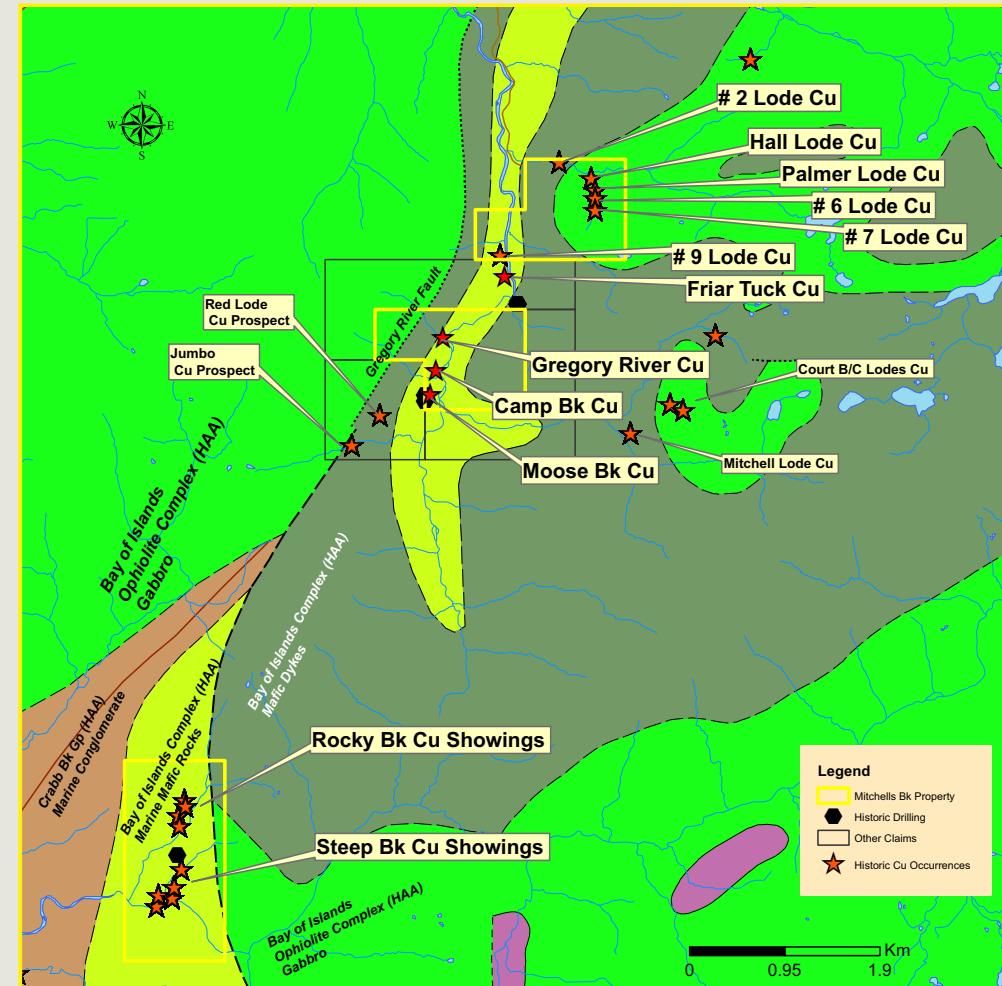


# NEWFOUNDLAND & LABRADOR

## Prospect • Discover • Develop



### Mitchells Bk - Cu-Zn-Au



Map 2: Claims Location, Geology, Mineralization

Geology Source:  
Crisby-Whittle, L. V. J. (compiler): 2012: Bedrock geology dataset for the Island of Newfoundland. Newfoundland and Labrador Department of Natural Resources, Geological Survey, Open File NFLD/2016 version 7.0.

#### Highlights

- 18 historic Cu-Zn-Au occurrences; > 25 drill holes in area
- Grabs to 7 g/t Au; channel samples up to 14% Cu over 3 m.
- Drill intersections - 8 m with 1.2 g/t Au, 1% Zn, 0.78% Cu
- Deposit Models: Cyprus type Cu-Zn and Epithermal Au

#### Mineralization and Previous Work

There are 18 historic Cu+Zn+Au occurrences on the property and the following account of the mineralization is taken from a compilation report by J. Harris (Playfair, 2008). High-grade Cu boulders were first discovered along Gregory River in 1921 by

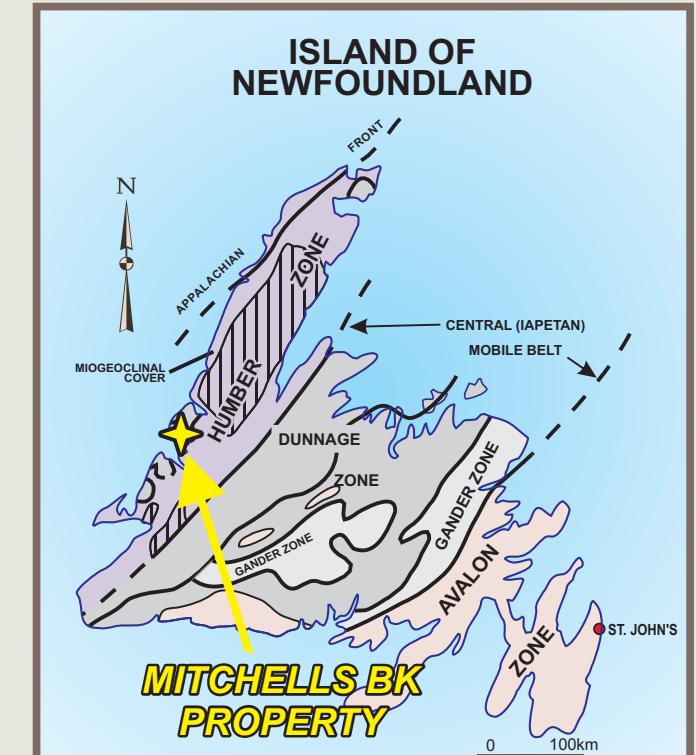
Mines and Forest NFLD Ltd. Subsequent exploration work by junior and senior exploration companies have identified numerous Cu+Zn+Au showings: twenty-three major Cu-lode showings (plus at least thirty additional smaller Cu-lode showings), up to seven Cyprus-type massive sulphide showings and perhaps up to four epithermal Au showings. Of these, the **Gregory River, Camp and Moose Brooks and the East Zone showings** (Map 2) are the high priority VMS/low sulphidation gold targets. Other noteworthy showings are the **Red Lode and Jumbo**. These occurrences also show strong clay-silica alteration or are associated with significant unexplored Cu-Zn soil anomalies. Noranda reported that the mineralization at **Camp Brook** exhibits "true massive sulphide" characteristics (Sparks 1991). A random grab sample (m sized boulder) returned **1.67 g/t Au and 4,950 ppm Cu**. In addition, a 25-m wide exhalative-type clay-sericite-chlorite alteration zone was identified 125 m west of the

showing. Drilling by Playfair Minerals (Moore, 2006) at the Camp and Moose Brook Zones identified a fairly large subsurface extension of the altered mafic rocks that contains a distinct mineralized horizon with massive, stringer and disseminated pyrite, chalcopyrite, sphalerite and arsenopyrite. Drill hole 4 yielded the highest assay values of the drill program; from **5.79 to 25.80 m, a core length of 21.01m averages 539.6 ppb Au, 4.51 ppm Ag, 4,516.7 ppm Zn, 3,305.0 ppm Cu and 582.6 ppm As; including an enriched section from 6.34 to 14.63m, an interval of 8.29m, which averages 1,191.1 ppb Au, 10.2 ppm Ag, 10,549.7 ppm Zn, 7,847.7 ppm Cu and 1,350.5 ppm As**. Rock samples collected from the Camp Brook, Moose Brook and East Zone showings confirmed previously identified exhalative-type alteration zones with anomalous gold and less significant base metal credits. For example, the Moose Brook Showing had values of **1 to 7 g/t Au**, over an approximately fifty-m long exposure (combination of grab, chip and channel rock samples). Drilling by Noranda in 1991 tested the down dip extension of the No 9 Lode, which was intercepted over an interval of 7.2 m. Assays returned an average of **2.12% Cu**. Included within this pyrite-chalcopyrite enriched zone, is an interval of **2.0 m of 4.45% Cu and 1.3 g/t Au**. No explanation for the EM conductor "C" was identified. In the Steep Brook area massive and semi-massive sulphide occurs as local float and in outcrop. Samples are commonly anomalous in Au, Ag, Cu, Zn and As, with values up to **3.06g/t Au, 19.9 g/t Ag, 11.7%Cu and 1% Zn**. At the Palmer Lode, chalcopyrite, arsenopyrite and pyrite mineralization occurs in gabbro. Dean (1980) summarized grade/width assay results of **7.75% Cu over 1.06 m and 2.3% Cu over 1.82 m**.

The **Jumbo Cu** Prospect consists of a rusty gossan with some remnant massive pyrite/pyrrhotite in altered gabbro. The maximum thickness of the mineralized zone is 4.5 m. Two adits mark the site of mineralization. Channel samples assayed 14% Cu over 3.0 m and 9.3% Cu over 10.0 m. Grab samples assayed 6.4% Cu from the basal 0.3 m of lode and 0.13% Cu from the upper 1.5 m of the lode. Dean (1978) estimated grade and tonnage of high grade ore as 14.7% Cu and 13,400 tonnes and disseminated ore as 6.0% Cu and 25,000 tonnes. Placer Development Ltd. sampled the Jumbo Lode and one sample yielded 0.24% Co.

#### Mineralization Models

There are several deposit types identified on the property, viz., Cu-lode quartz vein deposits, Cyprus-type massive sulphide deposits and epithermal Au mineralization. The exact nature of mineralization of some showings has not been adequately characterized; therefore, there is some uncertainty and overlap of the probable deposit classification of some showings. This is particularly true where the low (?) sulphidation epithermal gold targets are concerned. It is possible that the anomalous gold values discovered in some hydrothermally altered rocks are derived from preexisting Cyprus-type massive sulphide mineralization. The claims are only 37 kms northeast of the dormant York Harbour Cu-Zn-Ag mine in geologically similar rocks, which produced over 100,000 tonnes of high grade ore (3-12% Cu, 7% Zn), from 1898 to 1913 (Dearin, 2002).



Map 1: Property Location

#### FOR MORE INFORMATION CONTACT:

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