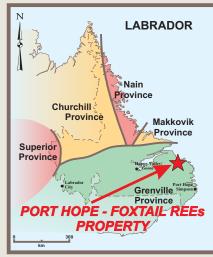
## NEWFOUNDLAND & LABRADOR

## Prospect Discover Develop



# Port Hope - Foxtail REEs



The Port Hope - Foxtail REEs Property is located 25 km W of the community of St. Lewis, SE Labrador, which is linked via the all-season highway, Route 510, the Trans Labrador Highway (TLH), to Goose Bay. The property is adjacent to the road connecting St. Lewis to the TLH (Maps 1 and 2, NTS 13A/08).

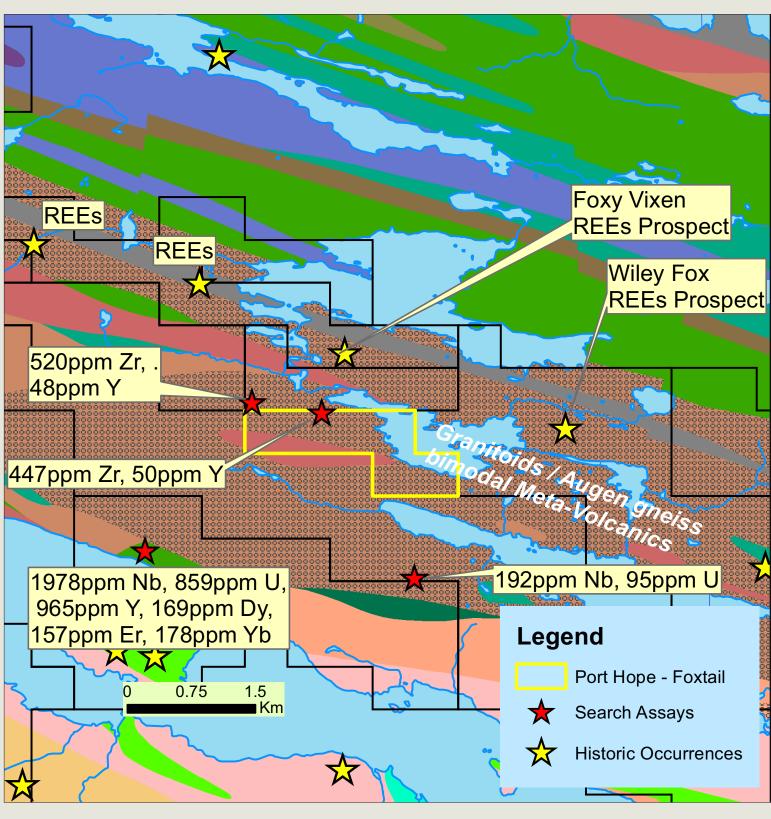
#### Regional Geology

The property is situated within the Grenville Province, which has undergone collision, accretion and prolonged metamorphism from several orogenic events between ca 1.7 and 1.6 Ga. The property occurs adjacent to and within the boundaries of three tectonic terranes within the

eastern Grenville Province, viz, the Lake Melville, Mealy Mountain and Pinware, from north to south, respectively. Differing lithologies, structures and metamorphic signatures distinguish these terranes; they are largely separated and defined by major fault zones. The property is located adjacent to the south of the Lake Melville terrane, also referred to as the Gilbert River Belt. The Fox Harbour fault zone is thought to separate the Lake Melville terrane from the Pinware terrane to the south.

### **Local Geology**

The numerous REE occurrences delineated by Search Minerals (NI 43-101 Technical Report, Search Minerals, 2012) are in an area that contains three extensive EW to NW-trending volcanic belts, up to 30 km long and 500 m wide, termed the Fox Harbour Volcanic Belt. These volcanic belts are largely bound by megacrystic granitic augen gneiss, which is variably mylonitized at contacts. These belts are interpreted to be bi-modal mafic and felsic volcanics, with intercalated volcaniclastics located largely at contacts and within the mafic volcanics. The felsic volcanics have very consistent stratigraphy. The mineralized units within the belts are predominantly pantellerite and commendite. Exploration indicates that these units exhibit high U and Th values and relatively high magnetic signatures that, when combined, are excellent indicators of mineralization. Radiometric-magnetic surveys clearly



Map 2. Claims, geology, mineralization

outline the three mineralized belts. High-grade mineralization, characterized by Dy from 100 ppm to 300 ppm, is predominantly hosted by pantellerite. Lower grade mineralization, characterized by Dy from 20 ppm to 100 ppm, is predominantly hosted by commendite. Mineralized units are commonly interbedded with mafic volcanic units, quartzite, and locally derived volcanogenic sediments. Most of the rare earth mineralization occurs in allanite and fergusonite; minor amounts of REE occur in chevkinite, monazite, bastnaesite, and zircon. The majority of the light REE (i.e., La to Sm) in the mineralization occurs in allanite, whereas the majority of the heavy REE (i.e., Eu to Lu) occurs in both fergusonite and allanite.

#### **Previous Work; Mineralization**

Search Minerals began extensive exploration on the district in late 2009 after it acquired the Port Hope Simpson property from B and A Minerals Inc. Search conducted an airborne radiometric and magnetometer survey in 2009 revealing elevated radiometric and magnetometer values and discovered the Foxtrot deposit in 2010. In an October 30, 2013 news release, Search Minerals Inc. announced the discovery of ten new Prospects in the Port Hope Simpson Rare Earth Element District including the Foxy Vixen REEs Prospect, within the Fox Harbour volcanic belt. The Fox Vixen and Wiley Fox prospects lie just to the north and east of the Port Hope - Foxtail Property. A selection of anomalous

REEs/Zr/U/Nb/Dy assays of grabs taken by Search are shown on Map 2, close to the property. There is good potential for this mineralization to also occur on the Port Hope - Foxtail Property.

#### **Potential**

Search Minerals' Foxtrot Project in the Port Hope Simpson Rare Earth Element District in southeastern Labrador has a positive Preliminary Economic Assessment indicating a Life-of-Mine plan with indicated mineral resources of 5.3 Mt, at an average grade of 0.89% Total Rare Earth Elements ("TREE"), could be mined over 10 years, including open pit mining for the first 3.5 years and underground mining thereafter. Production at the Project is anticipated to total 38 million kg of payable rare earth material. Indicated mineral resources are estimated to total 9.23 Mt at 0.88% TREE

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(or 1.07% Total Rare Earth Oxides ("TREO")), and inferred mineral resources are estimated to total 5.17 Mt at 0.77% TREE (or 0.93% TREO). The Port Hope - Foxtail property is one of 4 properties, held by the present owners, that are centrally situated within this highly prospective belt.

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