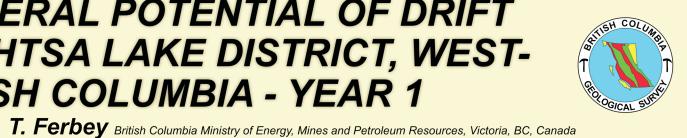


ASSESSING THE MINERAL POTENTIAL OF DRIFT COVERED AREAS, TAHTSA LAKE DISTRICT, WEST-CENTRAL BRITISH COLUMBIA - YEAR 1





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WHY TAHTSA LAKE **DISTRICT?**

PROSPECTIVE ROCKS

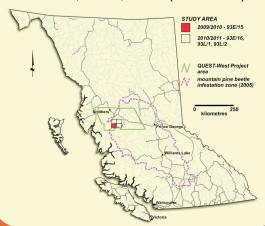
- High potential for porphyry copper, molybdenum, and gold-style mineralization, epithermal and perhaps VMS-style mineralization, and polymetallic veins.
- MINERAL EXPLORATION IS POSSIBLE
- Glacial sediments can be a help not a hinderance.
- In recent years, access within study area has increased.

WHY TILL **GEOCHEMISTRY** SURVEYS?

 Dominance of tills and truck access makes study area ideally suited for a till geochemistry survey (ICP-MS, INAA, heavy mineral and gold grain count data).

THE PROGRAM

- Trace element till geochemistry, heavy mineral concentrates and gold grain counts for:
- 93E/15 (2009/2010)
- 93E/16, 93L/1, 93L/2 (2010/2011)



BEDROCK GEOLOGY

- In study area small to medium-sized, Late Cretaceous to Early Tertiary stocks have intruded volcanic sedimentary packages.
- Elsewhere in the region, there is a strong positive relationship between the location of intrusive lithologies (e.g., Late Cretaceous Bulkley suite) and the locations of Cu, Mo, Au, Pb, Zn, and (or) Ag mineralization (Carter, 1981; MacIntyre, 1985).

LESS DRIFT AND NEW UNMAPPED OUTCROP

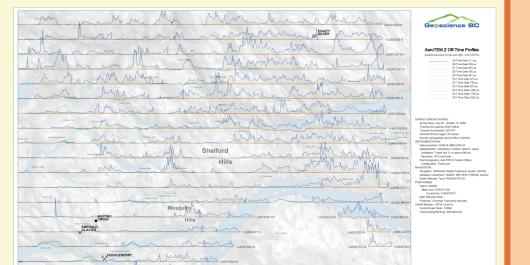


(or) unmapped exposures.

• New road access has resulted in new and • 2009 field observations suggest drift (e.g., till) not as areally extensive or thick as was once thought.

NEW AIRBORNE GEOPHYSICS

- Newly acquired airborne geophysical data (EM, gravity: Kowalczyk, 2009) for the QUEST-West Project area provide new insight into covered and partially covered bedrock lithologies.
- These data provide good starting point for a new look into the regional bedrock geology.



TILL GEOCHEMISTRY SURVEY 93E/15 - Year 1

- 84 till samples (2-3 kg) collected for trace element analyses by ICP-MS (silt+clay (<0.063 mm) and clay (<0.002 mm) fractions) and INAA (silt+clay (<0.063 mm) fractions).
- 16 till samples (10 to 15 kg) collected for heavy mineral concentrates and gold grain counts (<2.0 mm fraction).



SAMPLE TARGETS

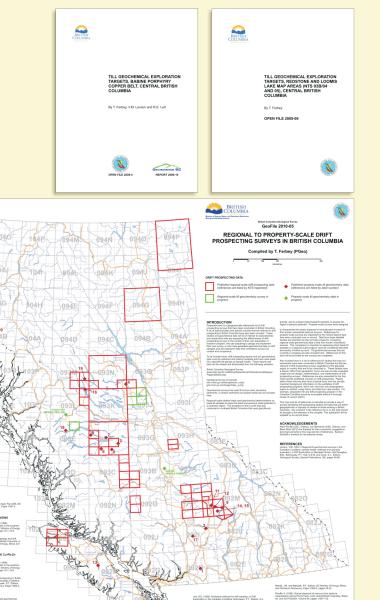
Mapped and unmapped Late Cretaceous instrusives, mineralized ryholites, known metallic mineral occurrences, and conductive highs (and associated lows, typical of mineralized porphyry systems) observed in recently released EM data for the QUEST-West study.

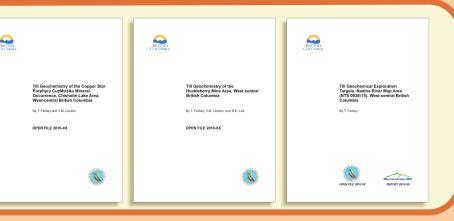
TRANSPORT DIRECTION

- Need to know direction to bedrock
- In agreement with Ferbey and Levson (2001), ice-flow reversal confirmed within 93E/15.
- Detailed orientations surveys will help quantify net detrital transport direction.

TILL GEOCHEMICAL SURVEYS IN **BRITISH COLUMBIA**

2009/2010 DATA RELEASES





UPCOMING RELEASES