Exploring for porphyry copper deposits

Alteration zoning

- Potassic alteration
- Actinolite alteration
- Chlorite alteration
- Epidote alteration
- Fresh granite

Stream sediment minerals

- Pyrite zone in ore body
- Pyrite in sediments
- River sediments

Magnetic survey

- Strong magnetic response
- Weak magnetic response

- Igneous magnetite in a granite (no ore deposit)
- Hydrothermal magnetite in potassic altered zone of an ore deposit
Geography

Key:

- Available exploration area
- Railway line
- International boundary (disputed)

Recent river deposits – ‘cover’

Bedrock

5 km
Hydrothermal Alteration

Key:

- Available exploration area
- Chlorite zone
- Epidote zone
- Actinolite zone
- Potassic zone
- Pyrite zone

Legend:

A

B

C

D

E

Scale: 5 km
Magnetic survey

Key:

- Available exploration area
- Strong magnetic response
- Weak magnetic response

[Map with labeled areas A, B, C, D, and E, and a scale bar of 5 km]
Key:

- Available exploration area

Pyrite abundance

- High concentration
- Mod. concentration
- Low concentration
- Not observed

Map of stream sediment mineralogy with areas A, B, C, D, and E marked.