Dan Macklin

Old Techniques Unearthing New Search Space: Till sampling around Red Lake, NW Ontario

SMEDG
50
GOLDEN JUBILEE
1972 - 2022
Sydney Mineral Exploration

Our learnings

Evolution

- Dispersion trains of **gold grains in basal till horizons present distinct anomalies** beneath cover (and modern lakes) when compared to fresh rock geochemical signatures in this type of setting.
- Gold grain counts from a heavy media concentrate is the stronger method for delineating an anomaly. Fine fraction assays are solid alternatives (cheaper / faster).
- The morphology of the McFinley dispersal train shows in **line spacing is important**, spacing between lines less so.
- **We have grown confidence in our ability** as an exploration group to 'read the ground' and employ an approach most effective to screen for meaningful dispersal trains.
- Surprisingly, there has been little systematic till sampling (surface or 'drill for till') on our claims in the Red Lake district.
- Implementing what we learnt, we are developing new anomalies in un-explored areas – both around Red Lake and at our other Greenfields projects.

ICE FLOW

>10m

Sand

Clay

Till

Bedrock

Au dispersal

A summary of our learnings an exploration model for wider application

Cochenour

McFinley

Red Lake - Campbell

- Previous exploration focused on Balmer age volcanic rocks
- Regional potential for Dixie-style discovery in younger, underexplored geology

ICE FLOW

>10m   Sand
          Clay
        Till
Bedrock
                    Au dispersal

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