



Occurrence Details

Occurrence Number: 1050 067
Occurrence Name: Einarson B-Zone
Occurrence Type: Hard-rock
Status: Showing
Date printed: 12/16/2025 7:48:34 AM

General Information

Primary Commodities: gold
Aliases: Einarson
Deposit Type(s): Unknown
Location(s): N - W
NTS Mapsheet(s): 105014
Location Comments: Location from map in 2020 technical report
Hand Samples Available: No
Last Reviewed:

Capsule

The Einarson district is underlain by sedimentary rocks of the Selwyn Basin deposited in a marine environment along the margin of ancestral North America from Late Proterozoic into Paleozoic times, following the breakup of the Rodinia supercontinent. These rocks comprise siliciclastic units like argillites, shales, sandstones grading to quartz pebble conglomerates with varying degrees of carbonate content, interlayered with carbonate units like limestones and dolomites, with minor turbidite and debris flow units.

The oldest units in the area are the Yusezyu and Algae Lake formations, comprising mainly arenites and carbonates respectively. These are overlain by the Narchilla formation, which has its basal Senoah member, which are overlain by the distinctive maroon and green argillites and shales of the Arrowhead Lake member, and the clastic Gull Lake formation, which includes minor volcanic units. Instances of the overlying Old Cabin volcanic formation are also present in the project area.

Structurally, the Einarson district sits in a broad zone of tectonic flexure, wherein major east-west trending features like the Dawson thrust and the Kathleen Lakes fault west of the district give way to a network of northwest-southeast and north-south trending deep-seated faults at Einarson (Moynihan, 2014). South of Einarson, this tectonostratigraphic package wraps around further in a 10's-of-km wide synclinal feature attributed to motion along the Hess-Macmillan Fault system, the nose of which is intruded by members of the Cretaceous Emerald Lake plutonic suite south of Einarson. This deformation has resulted in a high degree of shortening, particularly in the upper Narchilla formation and above.

Steeply dipping faults cut stratigraphy that is relatively flat lying on a regional scale, but variably folded at smaller scales depending on formation. The Yusezyu and Algae Lake formations and the Senoah member of the Narchilla formation form broad anti- and synclinal features across the district, with large (multiple km-scale) faulted anticlines corresponding to three domal structural features that expose both Yusezyu and Algae Lake formations. Within the Narchilla formation, between the Senoah and Arrowhead Lake members, is a detachment surface that sees heavy isoclinal folding and shortening of up to 80% in overlying units, including the Gull Lake and Old Cabin formations.

Stream sediment and soil sampling along the Algae anticline and Algae thrust have consistently returned elevated to anomalous values along a 30 kilometer trend. The most intensive soil sampling has been conducted at the northwest (Misty) and southeast (B) ends of the trend.

In the B zone, elevated to anomalous gold in soils, to a maximum of 0.26 ppm Au, track the faulted axis of the Algae anticline across four parallel drainages over a span of 11.5 kilometres, again with elevated arsenic and antimony. Within this broader zone, concentrated gold anomalies have seen varying degrees of follow-up, with the southernmost "B2" zone having seen the most work, including trenching. 2.0 metre chip sample of decrepitated, hematitic sandstone returned a value of 2.260 g/t Au; a separate 1.1-metre sample of limestone with red clasts, indicating hematite alteration, returned a value of 0.674 g/t Au. The two samples are separated by 4.0 metres of non[1]auriferous material (Schulze, 2013). To the west of this, a zone of quartz brecciation through variably silicified and clay altered clastics returned grab samples of up to 0.884 g/t Au with 0.63% arsenic.

Work History

Date	Work Type	Comment
4/1/2013	Geochemistry	
4/1/2013	Geology	
4/1/2013	Geochemistry	
4/1/2013	Geochemistry	
4/1/2012	Geochemistry	
4/1/2012	Geochemistry	
4/1/2012	Geology	
4/1/2011	Geochemistry	
4/1/2011	Geochemistry	

Related References

Number	Title	Page(s)	Reference Type	Document Type
2014-1	Geological map of NTS 106B/04, east-central Yukon		Yukon Geological Survey	Open File (Geological - Bedrock)