



Occurrence Details

Occurrence Number: 105F 133
Occurrence Name: Ukon Showing 3
Occurrence Type: Hard-rock
Status: Showing
Date printed: 10/3/2025 4:12:11 PM

General Information

Primary Commodities: rare earths
Secondary Commodities: niobium, uranium, zirconium
Aliases: Guano
Deposit Type(s): Unknown
Location(s): 61°29'53.38" N - -132°25'34.32" W
NTS Mapsheet(s): 105F08
Location Comments: Georeferenced from Map 14 in AR 095343 (p. 625).
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Guano, etc. cl (YA00242) in Jul-Sep/76 by Ukon Joint Venture (Chevron and Kerr Addition), which explored with mapping, geochemical surveys and an airborne radiometric survey in 1976, rock sampling in 1977 and a ground radiometric grid survey in 1979. In 2003, True North Gems silt-sampled in the vicinity of the occurrence. In 2010, soil and stream sampling was carried out near the occurrence and a helicopter radiometric survey was flown over the entire property.

Regional Geology

The occurrence is located on the Cassiar Platform, a curvilinear shelf that formed in the early Paleozoic, roughly parallel to the western margin of the North American craton but separated from it by the Selwyn Basin. Shallow marine miogeoclinal sediments were emplaced on the platform until Late Devonian time. Block faulting and local uplift during the Late Devonian and Mississippian resulted in deposition of carbonaceous shale and chert pebble conglomerate in the Selwyn Basin and across the platform. Local explosive volcanism produced volcaniclastic material and flows of the Pelly Mountains volcanic belt. The belt comprises localized submarine volcanic centres generated in an extensional environment that are separated by basins in-filled with sediments and volcaniclastic rocks. Several cogenetic syenite and trachyte domes and small stocks are the remains of vent areas. Subsequent deformation is a result of Mesozoic thrust faulting related to the Cordilleran orogeny, emplacement of Cretaceous intrusions and Tertiary strike-slip movement along the major northwest-trending Tintina Fault, 30 km to the northeast.

Property Geology

The occurrence was first identified as Showing #3 in AR 090269. Property-scale mapping indicates the occurrence is underlain by the Devonian True Blue syenitic pluton, but the area is covered with overburden. In 1976, float samples in the area assayed up to 0.407% U3O8. Uranium mineralization occurs in quartz-veined grey-green fine-grained radioactive dykes cutting syenite. A sample of quartz veining associated with dyke material returned up to 0.67% U3O8 in 1977; whereas, the dyke rock only assayed 0.008% U3O8.

The best grab sample (25776) from the 2010 rare earth element exploration program returned 0.16% TREO, 0.44% ZrO2 and 0.09% Nb. The samples were collected from the talus slope in the area.

Work History

Date	Work Type	Comment
12/13/2010	Geochemistry	
12/13/2010	Geochemistry	
12/13/2010	Airborne Geophysics	
12/13/2003	Geochemistry	
12/13/1979	Geochemistry	
12/13/1979	Ground Geophysics	
12/13/1977	Geochemistry	
12/13/1976	Airborne Geophysics	
12/13/1976	Ground Geophysics	
12/13/1976	Geology	
12/13/1976	Geochemistry	

Related References

Number	Title	Page(s)	Reference Type	Document Type
YEG1979 8 0-pg55	Rare earth elements in the Guano-Guayes skarn property Pelly Mountains, Yukon Territory		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper

1979Chronicle	Geology of the Guano-Guayes rare earth element bearing skarn property, Pelly Mountains, Yukon Territory		University of British Columbia	MSc Thesis
MIR1976	Mineral Industry Report 1976		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Geology	Annual Report