Kumpuselkä

Alternative Names: Kultaselkä
Occurence type: occurrence

Commodity	Rank	Total measure	Total production	Total resource	Importance
gold	1	NA	NA	NA	NA

Easting EUREF: 436552,933
Northing EUREF: 7229473,844
Easting YKJ: 3436700
Northing YKJ: 7232500

Discovery year: 1997
Discovered by: Geological Survey of Finland
Province: Haukipudas (Zn, Cu)
References: 5, 6

Mineral deposit type

Group: Metallogenic deposit
Main type: Orogenic (metamorphic hydrothermal)
Comments: Structurally controlled flow of auriferous fluid; precipitation of gold and sulphides in structurally favoured locations.
References: 1, 6

Dimension

Expression: exposed
Form: discordant
Shape: NA
Length (m): NA
Width (m): 2
Thickness (m): NA
Depth (m): NA
Area (ha): NA
Dip azim: NA
Dip: NA
Plunge azim: NA
Plunge dip: NA
Orientation method: NA
Dimension comments: About 1-3 m wide breccia zone known for the area

Holder history

Previous holders:

Company	Years	Holding type	Comments
Geological Survey of Finland	-1998	NA	NA
Kiimingin Sora Oy	2010-2019	Claim (old law)	Kultaselkä a(9101/1) and b(9101/2)
Kiimingin Sora Oy	1998	NA	NA

EXPLORATION ACTIVITY

Kiimingin Sora Oy

Years	Activity type	Geologist	Exploration result	Ref
2000-2000	NA	NA	NA	1, 4
	Exploration activity, if any, and the years of activity not reported			

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
1998-1999	detailed geochemistry	Esko Korkiakoski	geochemical anomaly	
	A distinct local Au anomaly in till .Also, Cu-Pb-Zn anomalies in till occur in the region, but they are related to the syngenetic(?), pre-gold, sulphide mineralisation and graphitic schists.			

1998-1999	percussion drilling	Esko Korkiakoski	key geological features	1, 2, 3, 4, 6
	Percussion drilling into uppermost 3 m of bedrock			

1998-1999	excavation	Esko Korkiakoski	mineralized zone identified	1, 2, 3, 4, 6
	In co-operation with University of Oulu.			

1998-1999	core drilling	Esko Korkiakoski	NA	6
	6 diamond-drill holes, total 355 m.			
	Intersections			
	HoleID	NA		
	From-To	NA		
	Length	0,3m		
	gold	4ppm		

1998-1999	regional geophysics	Esko Korkiakoski	geophysical anomaly	1, 2, 3, 4, 6
	In co-operation with University of Oulu.			

1992-1999	detailed geophysics	Mikko Honkamo, Esko Korkiakoski	geophysical anomaly	1, 4, 6
	Ground magnetic, gravity, IP, VLF-R and slingram survey. No gphysical anomalies related to the gold mineralisation detcted. A distinct IP anomaly related to syngenetic pyrite-pyrrhotite mineralisation. Magnetic and electric anomalies in the area are dominantly produced by graphite- and sulphide-bearing schists of the region.			

1992-1999	detailed geology	Mikko Honkamo, Esko Korkiakoski	key geological features	1, 2, 3, 4, 6

1984-1984	regional geochemistry	NA	geochemical anomaly	1, 4, 6
	Country-wide tille geochemical survey			

1976-1976	regional geophysics	NA	key geological features	1, 2, 3, 4, 6
	Low-altitude airborne magnetic, electromagnetic and radiometric survey			

GEOLOGY

Host rock: Quartz vein, Greywacke

Quartz vein (Host rock)

Rock type: Host rock
Proportion: minor
Grain size: NA
Color: NA
References: 1, 6
Comments: Mylonitised quartz veins. Several quartz vein sets which clearly post-date, cut across, the local base-metal mineralisation.

Greywacke (Host rock)

Rock type: Host rock
Proportion: major
Grain size: NA
Color: NA
References: 1, 2, 3, 6

Ore minerals:

Mineral	Proportion	Mineral texture
Arsenopyrite	minor	
Bismuth	minor	
Chalcopyrite	minor	
Electrum	minor	
Galena	minor	
Gold	minor	
	Native gold in vein and breccia-matrix quartz and immediate wall rock of the breccia.	
Pyrite	major	
Pyrrhotite	minor	
Telluride	minor	

Other minerals:

Mineral	Proportion	Mineral texture
Apophyllite-(KF)	present	
Calcite	present	
Cerite-(Ce)	present	
Chlorite	present	
Monazite	present	
Quartz	present	
Sericite	present	
Talc	present	

Structures
Breccia
Veined

Textures
Foliated

Alteration:	Distribution:	Degree:	Relation to mineralization:
silicification	Disseminated	Moderate	NA
sulphidation	Disseminated	Moderate	Syn

Metamorphic description:

Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	amphibolite metamorphic facies	medium metamorphic grade	NA		
Comments: Metamorphic mineral assemblage: Quartz + biotite + muscovite ± chlorite, talc.					

Geological age:

Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:
Paleoproterozoic (2500-1600 Ma)	1873-2093		N
Comments: Mineralisation either early Svecofennian, during the local D2 stage of deformatio or late Svecofennian, syn-D3 stage, deformation, possibly at ca. 1.83 Ga.			

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