Silmussuo

Occurence type: occurrence

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

Easting EUREF: 253704,544
Northing EUREF: 6829113,655
Easting YKJ: 3253775
Northing YKJ: 6831980

Discovery year: 1955
Discovered by: Outokumpu Oy
Province: Pirkkala (Au)
Comments: Discovery: arsenopyrite-rich glacial erratic boulder with 11 ppm Au, found by an amateur prospector, led Outokumpu to the mineralisation in an outcrop.
References: 1

Mineral deposit type

Group: Metallogenic deposit
Main type: Orogenic (metamorphic hydrothermal)
References: 1

Dimension

Expression: NA
Form: NA
Shape: NA
Length (m): NA
Width (m): NA
Thickness (m): NA
Depth (m): NA
Area (ha): NA
Dip azim: NA
Dip: NA
Plunge azim: NA
Plunge dip: NA
Orientation method: NA

Holder history

Current holder: Teako Minerals Finland Oy
Years: 2023
Holding type: Application for exploration permit

Previous holders:

Company	Years	Holding type	Comments
Scandian Metals AB	2021-2023	Reservation	NA
Geological Survey of Finland	2018	Reservation	NA
Geological Survey of Finland	2001	NA	NA
Outokumpu Oy	1955-1991	NA	NA

EXPLORATION ACTIVITY

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
2001-2001	core drilling	Tapio Lehto	NA	2

2001-2001	excavation	Tapio Lehto	NA	2

2001-2001	detailed geology	Tapio Lehto	NA	2

Outokumpu Oy

Years	Activity type	Geologist	Exploration result	Ref
1984-1985	regional geochemistry	Martti Kokkola	NA	1

1984-1985	detailed geology	Martti Kokkola	NA	1

1984-1985	detailed geochemistry	NA	NA	1
	Geochmeical sampling from 24 excavation pits.			

1984-1985	detailed geochemistry	Martti Kokkola	NA	1

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
1975-1975	regional geophysics	NA	key geological features	
	Low-altitude airborne magnetic, electromagnetic and radiometric survey			

Outokumpu Oy

Years	Activity type	Geologist	Exploration result	Ref
1956-1956	core drilling	Martti Kokkola	NA	1
	Core drilling (reconnaissance drilling): 8 diamond-drill holes.			
	Intersections			
	HoleID	SS-1		
	From-To	128,4-129,6		
	Length	1,2m		
	gold	3,2ppm		

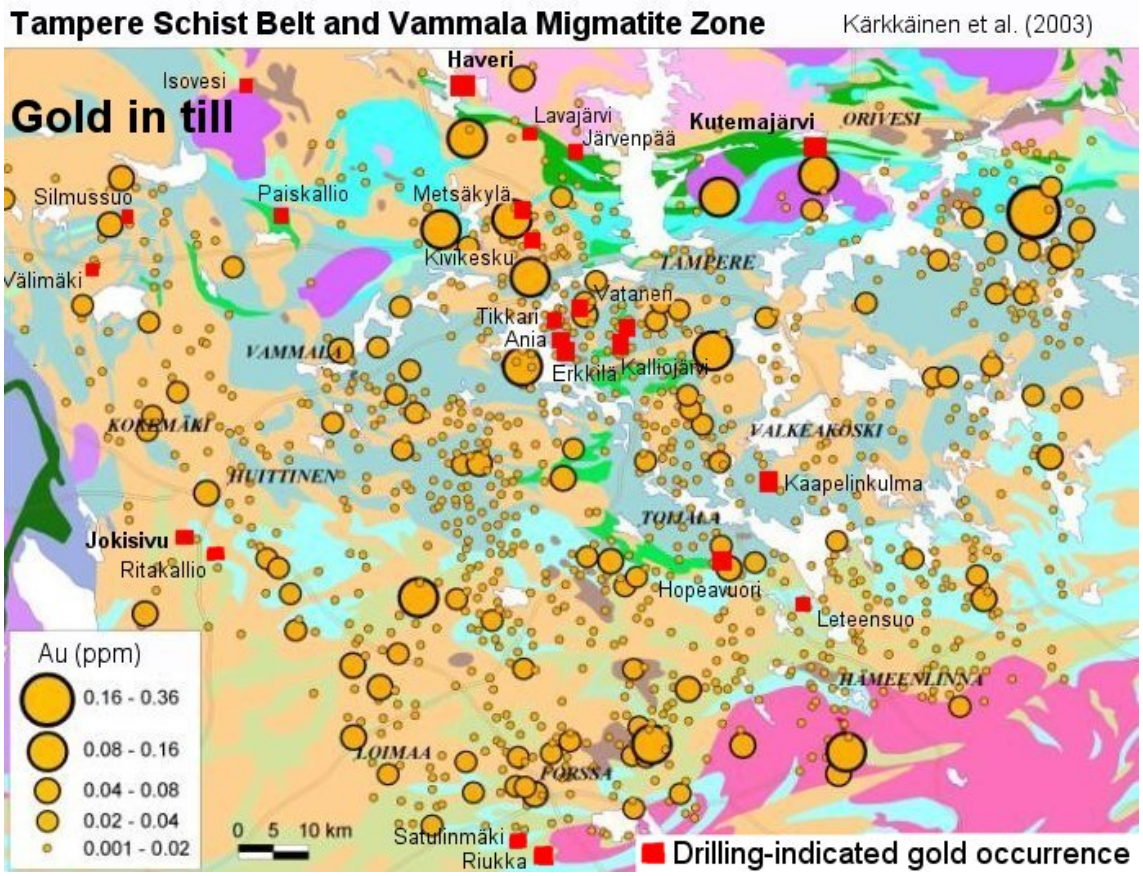
1954-1956	detailed geology	NA	NA	1
	Arsenopyrite-rich glacial erratic boulder with 11 ppm Au.			

1954-1956	regional geochemistry	Martti Kokkola	NA	1

1954-1956	detailed geochemistry	Martti Kokkola	NA	1

Figures

Secondary anomaly:



GEOLOGY

Host rock: Amphibolite, Mica gneiss

Amphibolite (Host rock)

Rock type: Host rock
Proportion: minor
Grain size: NA
Color: NA
References: 1, 3
Comments: The geotectonic environment is arc-accretionary. The deposit is in mica gneisses and amphibolites of the westernmost part of the Vammala Migmatite Zone.

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		

Mica gneiss (Host rock)

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

Metamorphic description:
Ore minerals:

Mineral	Proportion	Mineral texture
Arsenopyrite	major	
Graphite	major	
Magnetite	major	

Other minerals:

Mineral	Proportion	Mineral texture
Diopside	present	
Quartz	present	

Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	amphibolite metamorphic facies	medium metamorphic grade	NA		

REFERENCES

1. Kokkola, M. 1991. Kaivoslain 19§:n mukainen tutkimustyöselostus. Kullaa, Silmussuo, kaivosrekisterinumero 3860/1. Outokumpu Oy Finnmines, Report 080/1143 12A/MK/1991. 4 p. (in Finnish)*http://tupa.gtk.fi/karttasovellus/mdae/references/421_Silmussuo/421_3860_1.pdf*

2. Lehto, T. 2002. Personal communication 14/05/02.

3. Luukkonen, A. 1994. Main geochemical features, metallogeny and hydrothermal alteration phenomena of certain gold and gold-tin-tungsten prospects in southern Finland. Geological Survey of Finland, Bulletin 377. 153 p.*http://tupa.gtk.fi/julkaisu/bulletin/bt_377.pdf*