Kompsa

Occurence type: occurrence

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

Easting EUREF: 454745,544
Northing EUREF: 7290849,367
Easting YKJ: 3454900
Northing YKJ: 7293900

Discovery year: 1998
Province: Oijärvi (Au, Ag)
Comments: Discovered by bedrock mapping-related diamond drilling across the Oijärvi greenstone belt
References: 3

Mineral deposit type

Group: Metallogenic deposit
Main type: Orogenic (metamorphic hydrothermal)
Comments: Hydrothermal sulphidation, hydration, carbonation in structurally-controlled locations led to precipitation of gold syn-peak ductile deformation (Dn+1).
References: 3, 4, 7, 8

Dimension

Expression: exposed
Form: discordant
Shape: NA
Length (m): 400
Width (m): 300
Thickness (m): NA
Depth (m): 100
Area (ha): NA
Dip azim: NA
Dip: 5
Plunge azim: NA
Plunge dip: NA
Orientation method: NA
Dimension comments: A 300 m wide, >100 m deep and >400 m long Au-mineralised domain, may include several ore bodies; open at depth and along strike to the NNE and SSW

Holder history

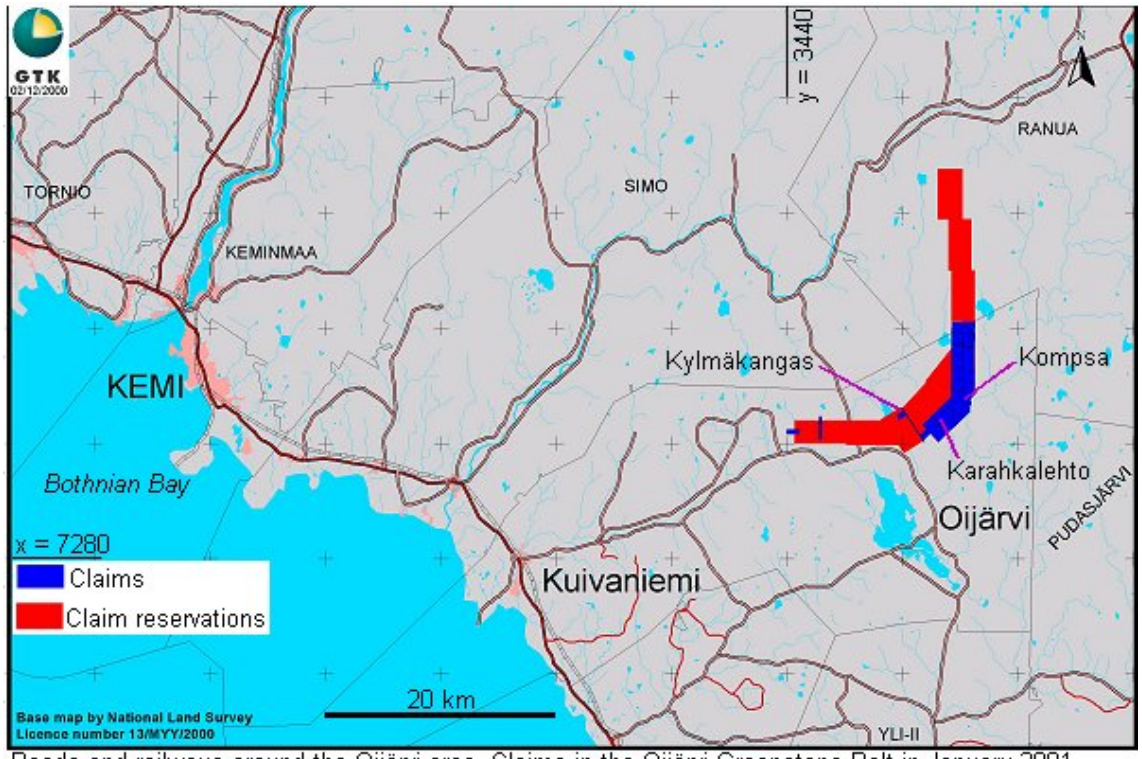
Current holder: GLR Finland Oy
Years: 2020
Holding type: Application for exploration permit

Previous holders:

Company	Years	Holding type	Comments
Agnico Eagle Finland Oy	-2021	Exploration permit	Joint venture with Troy Resources?
GLR Finland Oy	2017-2020	Application for exploration permit	This is a daughter company of Gold Line Resources
Oijärvi Resources Oy	2012-2017	Claim (old law)	NA

Riddarhyttan Resources AB	2001-2005	NA	Joint venture with Troy Resources NL
Geological Survey of Finland	1998-2001	NA	NA

Figures



Roads and railways around the Oijärvi area. Claims in the Oijärvi Greenstone Belt in January 2001. From Juopperi et al. (2001)

EXPLORATION ACTIVITY

Gold Line Resources Ltd.

Years	Activity type	Geologist	Exploration result	Ref
2022	detailed geophysics	Benjamin Gelber	key geological features	2
	UAV aeromagnetic geophysical survey			

Troy Resources NL

Years	Activity type	Geologist	Exploration result	Ref
2001-2001	core drilling	NA	NA	9, 10, 11
	JV with Riddarhyttan.			

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
1998-2000	core drilling	Heikki Juopperi	mineralized zone identified	3, 4, 7, 9
	Core drilling (reconnaissance drilling): 27 diamond-drill holes, total 2167 m.			
	Intersections			
	HoleID	NA		
	From-To	NA		
	Length	3,3m		
	gold	8,3ppm		
	HoleID	NA		
	From-To	NA		
	Length	3,2m		
	gold	9,5ppm		

1995-2000	detailed geology	Heikki Juopperi	key geological features	1, 3, 4, 5, 6, 7, 8

1995-2000	excavation	Heikki Juopperi	key geological features	1, 3, 4, 5, 6, 7, 8

1995-2000	detailed geophysics	Heikki Juopperi	geophysical anomaly	1, 3, 4, 5, 6, 7, 8
	Ground slingram, magnetic and gravimetric and VLFR survey			

1995-1995	regional geophysics	Heikki Juopperi	key geological features	1, 3, 4, 5, 6, 7, 8
	Low-altitude airborne magnetic, electromagnetic and radiometric survey. On the basis of the aeromagnetic data it was obvious that a relatively large greenstone belt with associated conductors and magnetic anomalies exists in the area.			

1995-2000	detailed geochemistry	Heikki Juopperi	geochemical anomaly	1, 3, 4, 5, 6, 7, 8
	Till geochemistry also bore indications of Au, Zn, Pb, Cu and Ni.			

1989-1989	regional geochemistry	NA	geochemical anomaly	1, 3, 4, 5, 6, 7, 8
	Country-wide till-geochemical survey			

GEOLOGY

Host rock: Felsic volcanic rock, Quartz vein, Mica schist

Felsic volcanic rock (Host rock)

Rock type: Host rock
Proportion: major
Grain size: Fine grained 0.2 - 1 mm
Color: NA
References: 1, 3, 8

Metamorphic description:

Other minerals:

Mineral	Proportion	Mineral texture
Muscovite	major	
Plagioclase	major	
Quartz	major	

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: Neoarchaean, pervasive, upper-greenschist facies metamorphism and Palaeoproterozoic, partial, static, lower-amphibolite facies metamorphism; Quartz + plagioclase + actinolite + biotite ± muscovite, pyrrhotite.					

Geological age:

Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:
Neoarchean (2800-2500 Ma)	2600-2800		N

Quartz vein (Host rock)

Rock type: Host rock
Proportion: minor
Grain size: NA
Color: NA
References: 3
Comments: Quartz-carbonate veins, Au-bearing

Mica schist (Host rock)

Rock type: Host rock
Proportion: major
Grain size: Fine grained 0.2 - 1 mm
Color: NA
References: 1, 3, 8

Ore minerals:

Mineral	Proportion	Mineral texture
Arsenopyrite	minor	
Chalcopyrite	minor	
Gold	minor	
	Free, native gold in quartz-carbonate veins and sericitised host rocks.	
Pyrite	major	
Pyrrhotite	major	

Other minerals:

Mineral	Proportion	Mineral texture
Biotite	major	
Calcite	present	
Plagioclase	major	
Quartz	present	
Sericite	present	

Alteration:	Distribution:	Degree:	Relation to mineralization:
sericitic alteration	Pervasive	Moderate	Syn
carbonate alteration	Pervasive	Strong	Syn
Comments: Carbonation also along the main shear zone, possibly partly predating mineralsiation.			
sulphidation	Disseminated	Moderate	Syn
silicification	Spotted	Weak	Syn

Metamorphic description:

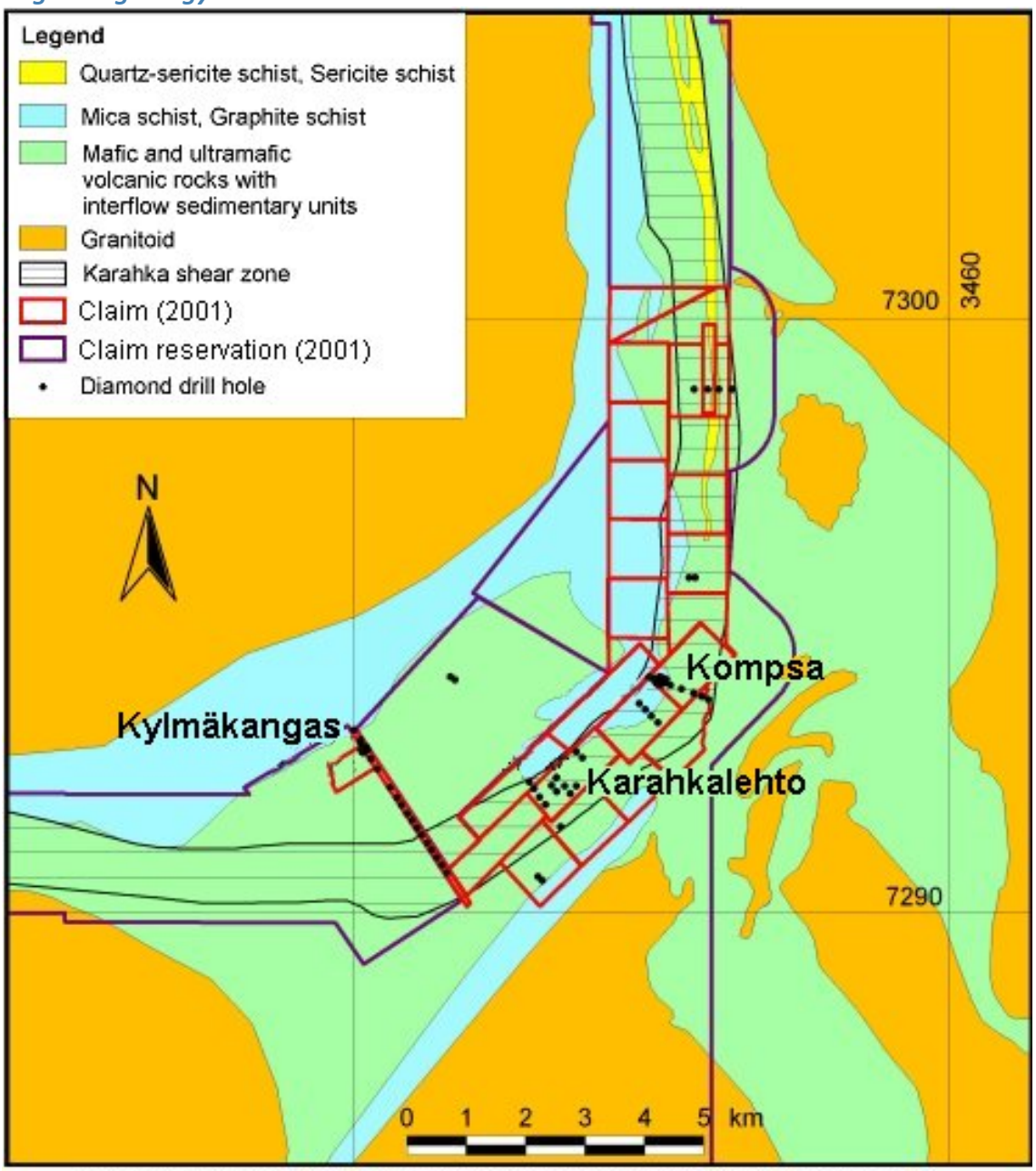
Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	amphibolite metamorphic facies	medium metamorphic grade	NA		
Comments: Neoarchaean, pervasive, upper-greenschist facies metamorphism and Palaeoproterozoic, partial, static, lower-amphibolite facies metamorphism; Muscovite + biotite + quartz + plagioclase ± pyrrhotite, graphite, garnet, tourmaline.					

Geological age:

Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:
Neoarchean (2800-2500 Ma)	2600-2800		N

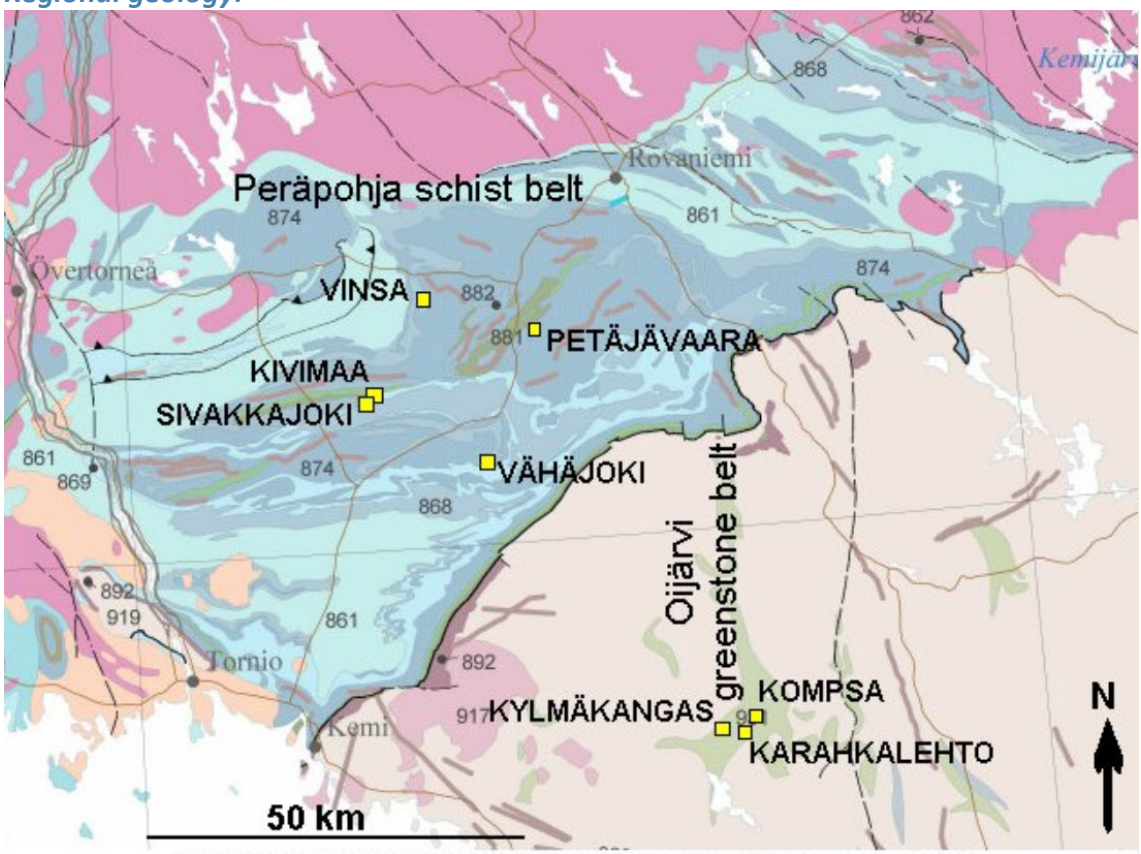
Figures

Regional geology:



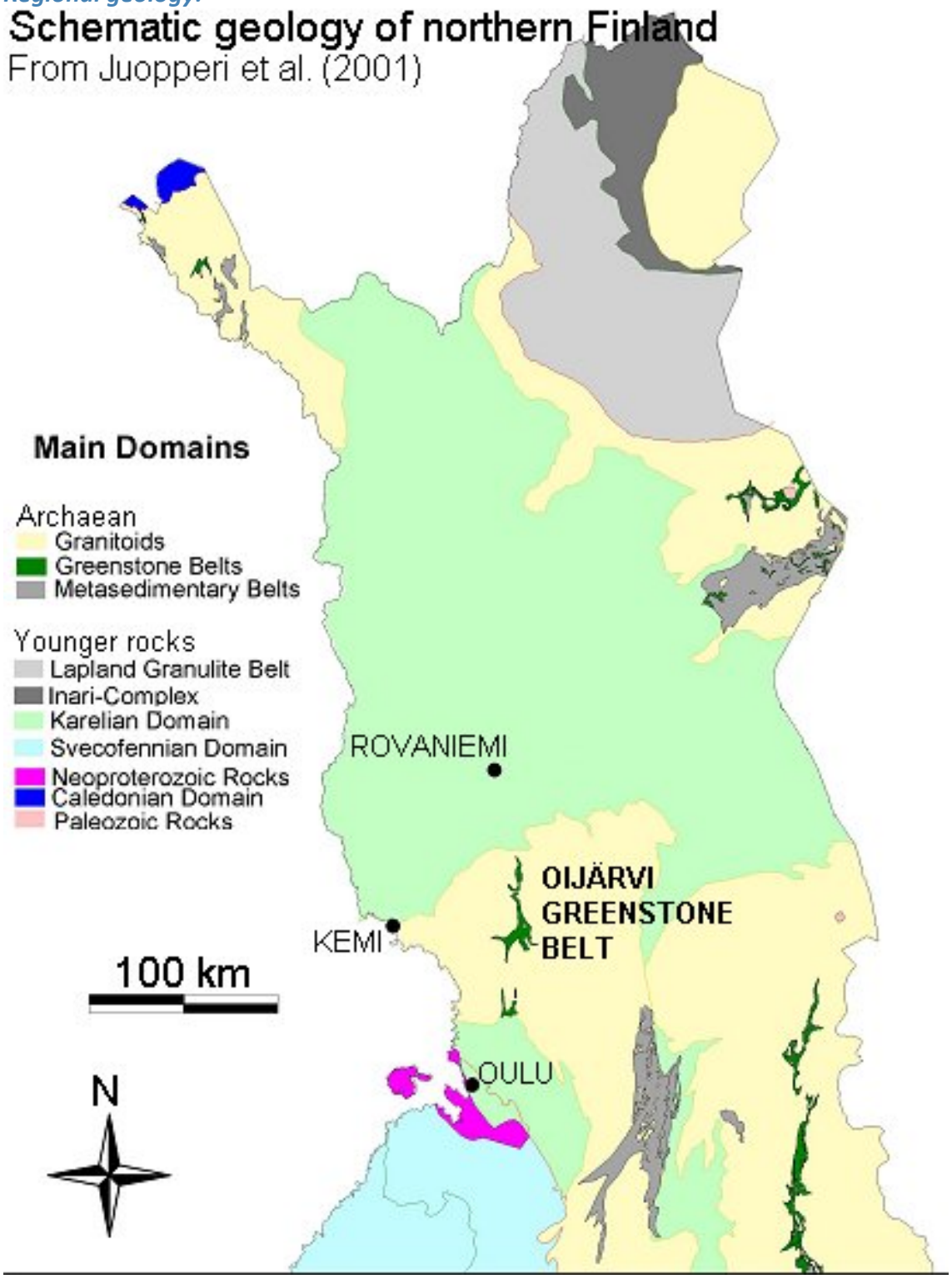
Schematic geological map of the central part of the Oijärvi Greenstone Belt. From Juopperi et al. (2001).

Regional geology:

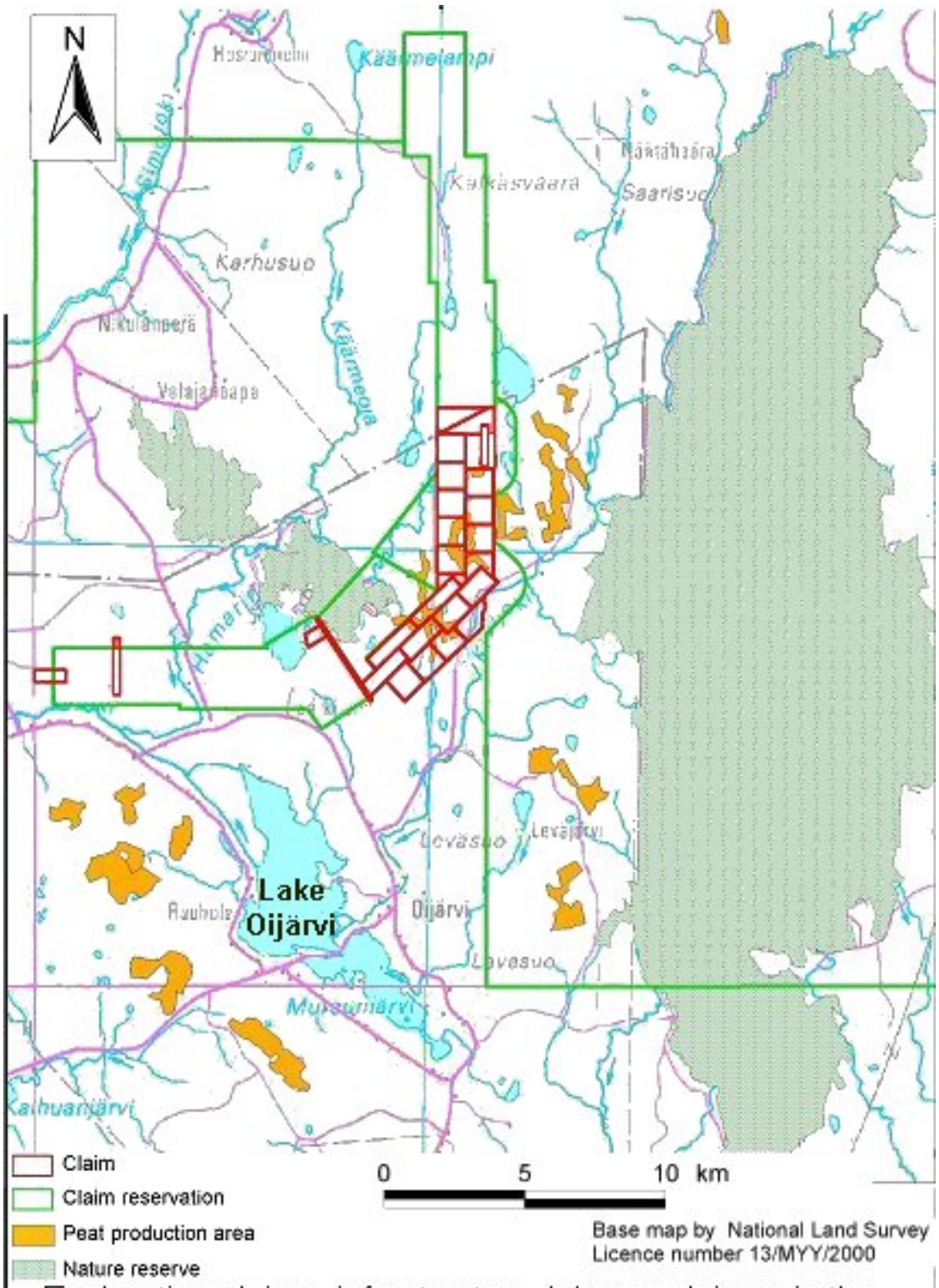


Drilling-indicated gold occurrences in Oijärvi greenstone belt and Peräpohja schist belt. Geology from Korsman et al. (1997).

Regional geology:

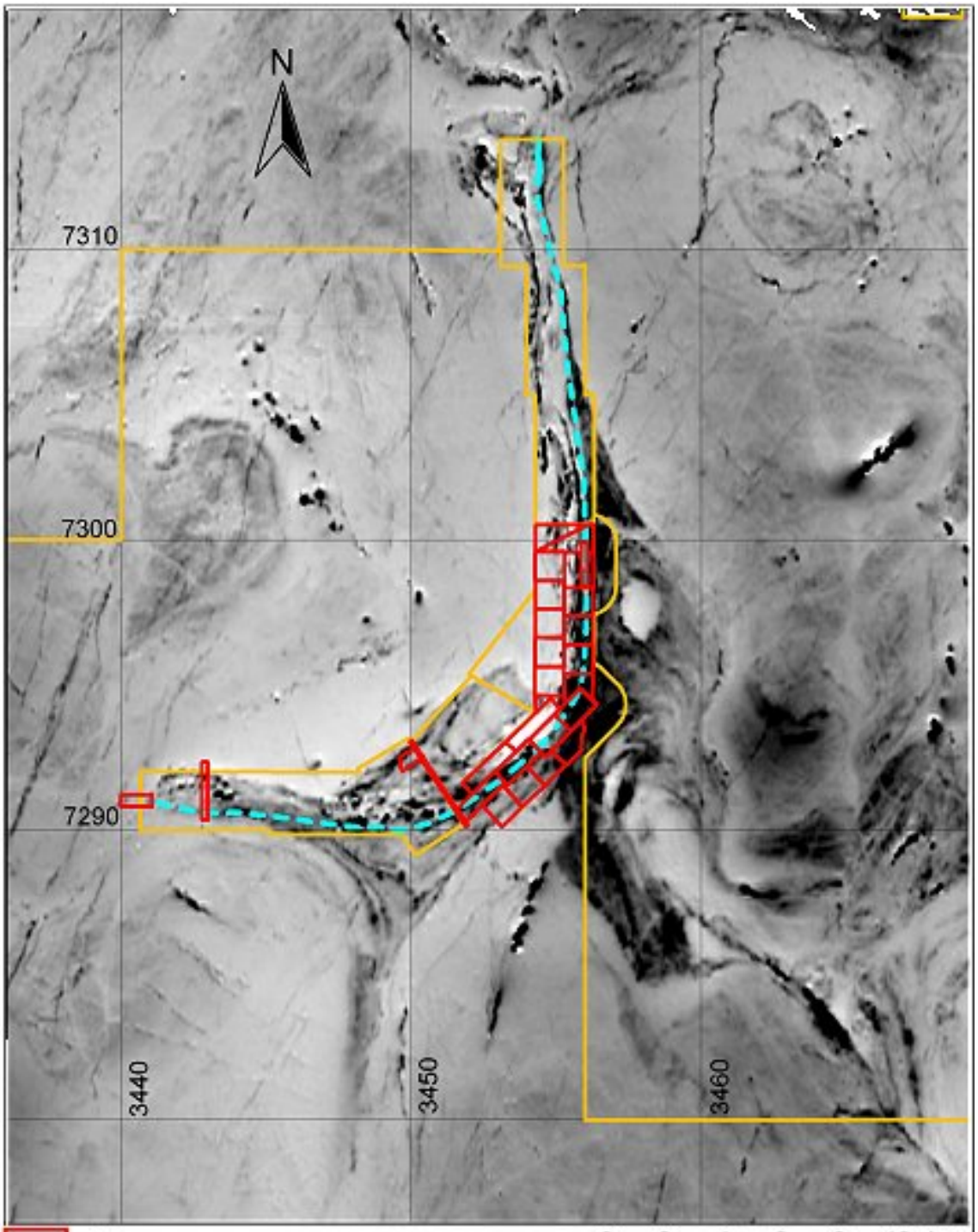


Plan view:



Exploration claims, infrastructure, lakes and rivers in the Oijärvi Greensone Belt. From Juopperi et al. (2001).

Primary anomaly:



Low-altitude aeromagnetic map of the Oijärvi Greensone Belt and its surroundings. From Juopperi et al. (2001).

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