

## **Geochemistry and mineralogy of the clay fraction of till in northernmost Finnish Lapland**

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Geochemical and mineralogical composition of the clay fraction of glacial till have been studied in northern Finland. Analytical methods used were XRF, AAS, DTA, TGA, TEM and SEM+EDS.

Very high trace metal contents in the clay fraction were found in the Sevettijärvi area, northernmost Finnish Lapland. They were caused by tiny particles of two types. The one type was composed of Cu and Zn and the other type of Cu, Ni, Zn, Fe and Pb. No S was contained in both types, so they can be characterized as metal alloys of natural origin.

The bedrock of the area is composed of mafic volcanite and the source of the trace metals most probably is an unknown sulphide mineralization.