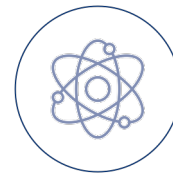
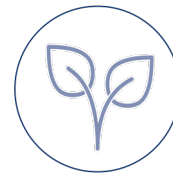


Mineralogical and elemental characterization of ores (BATCircle project)



X-ray Mineral Services recently conducted comprehensive analytical work for the Geological Survey of Finland (GTK) as part of the BATCircle project.

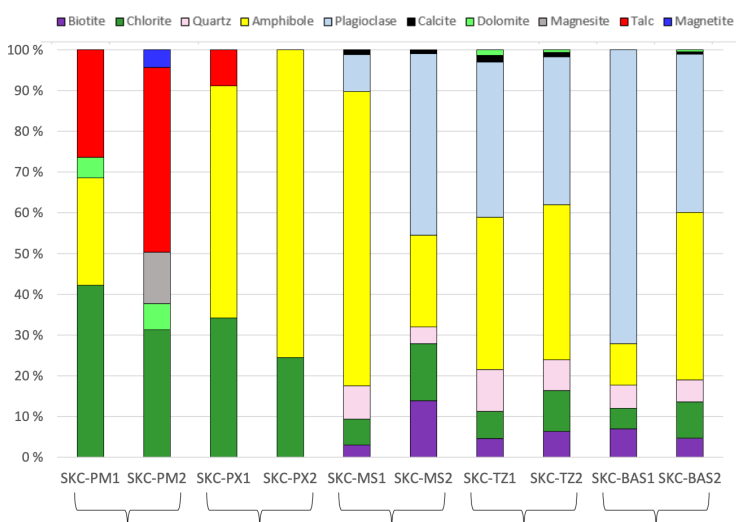


X-ray fluorescence (XRF) and X-ray diffraction (XRD) techniques were applied as part of a geometallurgical orientation study for Suhanko Arctic Platinum's Konttijärvi deposit.

Our **META** (Minerals, Elements, Texture and Analysis) service is a comprehensive materials characterization workflow. In this study XMS conducted mineralogical and elemental characterization for GTK.

Bulk mineralogy was determined by XRD and quantification of mineralogy was completed using the Rietveld method with Autoquan software, with most minerals quantified within 2 wt.% absolute error. Bulk elemental data was acquired by WD-XRF and ED-XRF

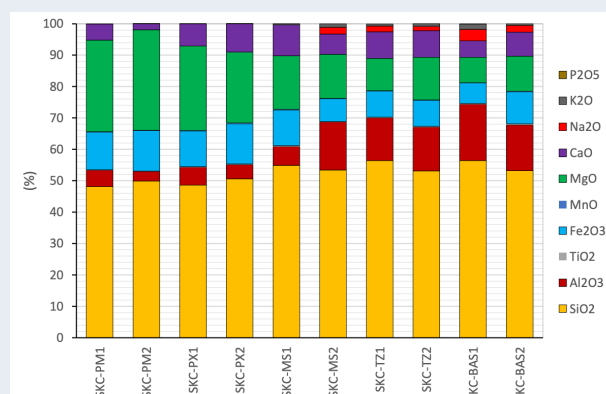
The analysis results were subject to rigorous QA/QC and cross-validated with data from other analytical techniques. The results were used in ore characterization and evaluation of suitable processing options from the Konttijärvi deposit.



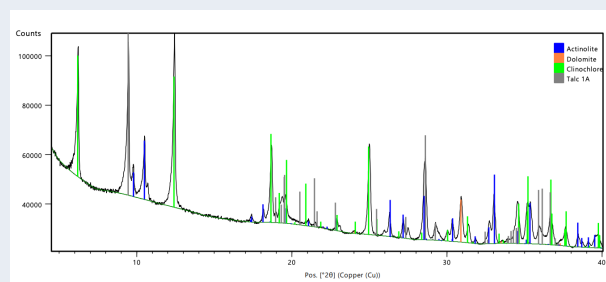
Summary of XRD results for the samples, courtesy of GTK, BATCircle Project Report 03

"Characterization for Konttijärvi Geometallurgical Orientation Study Samples BATCircle Project Report 03" by GTK can be found at:

https://tupa.gtk.fi/raportti/arkisto/28_2020.pdf



Summary of XRF results for the samples, courtesy of GTK, BATCircle Project Report 03



Example X-ray diffraction pattern of a sample

Dr. Lorenza Sardisco and Chris Hughes of X-ray Mineral Services UK were credited as authors in the report.



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