Mining Project

Prefeasibility Study of Underground Mining of Nickel Mine Deposits in Evia

Evia Regional Unit, Greece

Project

- Prefeasibility study for the potential of underground mining of nickel deposits in Evia
- Selection of the most suitable mine for the transition from surface to underground mining
- Geotechnical Investigation & Assessment
- Technical & Economical Analyses for the implementation of underground mining – Investment viability

Project Schedule

Design: 2018 - 2019

Geology

Limestones, Ophiolithic sequence, Schists and Cherts formations, Ferrum and Nickel deposits of Cenomian category

Mining Method

In the context of the elaboration of the prefeasibility study for underground mining potential, the below underground mining methods were examined:

- Sublevel stopping with backfill implementation
- Overhand cut & fill
- Room and pillar
- Sublevel Caving

Commodity

Nickel

Our Services

– Evaluation of mine deposits for the determination of the most suitable one for underground mining (review of existing data - assessment of geotechnical and hydrogeological data at the mines' area)
– Compilation of investigation drilling campaign at "Vrysakia" Mine (selected mine)
– Supervision of drilling works
– Evaluation of geotechnical design parameters
– Preliminary assessment of four (4) underground mining methods, according to UBC Standards
– Geotechnical assessment of the potential underground mining methods
– Geostatistical analysis (%Ni, cut-off grade)
– Capital budgeting and Operational costs (CAPEX/OPEX)
– Elaboration of technical and economical analyses (compilation of cash flow & NPV) – Investigation of investment plan viability for the potential underground mining scenarios
– Sensitivity analyses on the results of the technical and economical analysis

Client

G.M.M.S.A. LARCO