

Mining – Hydraulic – Waste Disposal Project

Pre-feasibility Study of Filtered tailings Dry Stack, at Skouries Gold Project

Chalkidiki, Northern Greece

Project

Pre-feasibility Study of 56Mt Filtered Tailings (86wt% solids), at Skouries mine site, to include a single Tailings Storage Facility (TSF) and Waste Rock Dump (WRD) sites.

Construction Cost

Total maximum cost: approx. €78m

Project Schedule

Design: 2016
Construction: scheduled to start 2017

Project Description

TSF site - Karatza Lakkos basin

- Dry Stack of Filtered Tailings (86wt% solids) - 8Mtpa (~4,8Mm³) production
- Final dam crest / Tailings el.: +415 / +495 masl
- Final dam height: 150 m
- Embankment/Tailings storage volume: 10 Mm³/35 Mm³

WRD site - Lotsaniko basin

- Dump height: 230m
- Storage volume: 20 to 26 Mm³

Geology

Porphyry intrusions, breccias, mica schists-gneisses, chloritic, biotitic, sericitic schists-gneisses, muscovitic, chloritic gneisses-schists, groundwater

Our Services

- Revision of Design Criteria (jointly with Knight Piesold, Vancouver, CA).
- Development of comparative studies for the dry stack layout (downstream – upstream dam raise options)– dry stack evolution over time.
- Development of comparative layouts for the WRD – dump evolution over time.
- Resolution of the site wide mass balance (waste and tailings) for the updated waste rock production of the mine site.
- Updated site wide water balance(*).
- Alternative options for the surface water management for the TSF & WRD (for contact & non-contact water).
- Opportunities & risks in light of the site environmental requirements.
- High Level BoQs and Cost Estimate of the alternative solutions.

(*) Designs jointly elaborated with Golder Associates (UK) Limited

Client

HELLAS GOLD S.A. {Subsidiary of ELDORADO GOLD (CA)}



Karatzas Lakkos TSF – Option Downstream raise



Lotsaniko Waste Rock Dump (WRD) – Final Layout Plan



Karatzas Lakkos TSF – Option Upstream raise