

Open Pit – Mining & Geotechnical



Geotechnical

- Conceptual, scoping, pre-feasibility and feasibility studies
- Pit slope stability analysis and design, including numerical stress modelling
- Excavation monitoring design using state-of-the-art systems
- Geotechnical reviews and audits
- Stability assessment of natural slopes and waste dumps
- Ground awareness and geotechnical hazards training
- Geotechnical data collection training
- Civil geotechnical investigations

Mining

- Conceptual, scoping, pre-feasibility and feasibility studies
- Due diligence examinations
- Open-cut mine optimisation, design and scheduling
- Mine management services and secondments
- Risk assessments
- Audits and reviews – safety, insurance and costs
- Contract documentation, supervision and auditing
- Tender evaluation

Geology

- Competent people qualified under the JORC Code
- Independent experts qualified under the VALMIN Code and with ASIC Regulations
- Conceptual, scoping, pre-feasibility and feasibility studies
- Mineral resource and ore reserve estimation
- Valuation of mineral assets
- Prospectus preparation
- Independent expert (geologist) reports
- Due diligence for mergers and acquisitions
- Exploration program management
- Geological logging and database preparation

Relevant Projects

- KCGM Open Pits (WA) – Life of mine physical scheduling and budget preparation. Talpac (truck simulation) calibration and modelling, Xpac (mine scheduling) modelling operations and mine design.
- Prominent Hill, Oxiana Ltd (SA) – Mine planning, schedule systems review and mine operations review. Conceptual mine optimisation study.
- Minera Goldfields, Peru, Cerro Corona Project – Implementation of mining operations, collation and development of mining costs and feasibility study.
- Tarkwa Gold Mine, Goldfields Ghana – Survey short/long term planning. LOM planning/reserve derivation. Use of FPC software (truck simulation).
- Barrick Gold Australia – Mine evaluation modelling, Whittle optimisations, corporate budgeting and planning, prefeasibility studies.
- St Ives Gold Mine (WA) – Mine planning and scheduling systems review, reserve estimates.
- Rio Tinto Iron Ore Mines (WA) – Site geotechnical support, slope stability analysis, preparation of procedures and systems, training and mentoring.
- Rio Tinto Iron Ore Mines (WA) – Mine Design, Mine Scheduling, Budget Estimates.
- IronClad Iron Ore Mine (SA) - Pit Optimisation, Mine Design, Mine Scheduling, JORC Reserve Estimates.
- BC Iron - Pit Optimisation, Options Analysis.
- Mount Keith Nickel Mine (WA) – Geotechnical reviews, site geotechnical support and slope stability analysis for long term pit designs.
- Savage River (TAS) – Major works including river diversions, conveyor realignment, slope stability analysis and modelling of large-scale slope instability.
- Siana Gold Project (Philippines) – Scoping, pre-feasibility and bankable feasibility study of a proposed 200m deep pit in a seismically active, high rainfall area.

ABOUT US

Mining One is an exciting team of highly experienced and professional mining, geotechnical geological and hydrogeological consultants offering excellence in service and commitment to their clients with high level strategic, hands on practical design and implementation.

Our well respected team has extensive industry knowledge and experience in a diverse range of disciplines.

With our engineering knowledge and skills using a variety of software packages we are able to provide safe, cost-effective and problem solving solutions which reduce mine operating costs, increase productivity and maximise economic extraction.

For more information on any of our services please visit at:

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