

CIVIL GEOTECHNICAL AND MINE INFRASTRUCTURE

About Us

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

Geotechnical and Engineering Geology

Geotechnical management and supervision of specialist drilling including:

- ▶ Onshore crossings
- ▶ Offshore drilling
- ▶ Longhole directional drilling

Civil infrastructure investigations and geotechnical design for:

- ▶ Tunnels
- ▶ Pipelines
- ▶ Shafts
- ▶ Foundations
- ▶ Railways
- ▶ Tanks
- ▶ Bridges
- ▶ Dams
- ▶ Roads
- ▶ Structural geology and interpretation
- ▶ Geotechnical, geological and hydrogeological model construction
- ▶ Stability assessments of natural slopes and embankments
- ▶ Geotechnical risk assessments
- ▶ Prediction of ground conditions, preferred geometries and ground support requirements using FEM and FBM numerical modelling (i.e. UDEC and FLAC 3D)
- ▶ Mine plant, waste dumps and tailings dam investigation, design and construction supervision
- ▶ Contract preparation/tender evaluation and contract management
- ▶ Shotcrete design, operator training, technical solutions and reviews
- ▶ In-situ stress measurements
- ▶ Secondment of specialist project engineers
- ▶ Instrumentation installation and monitoring
- ▶ Work coordination and scheduling



- ▶ Geotechnical peer reviews
- ▶ Technical advice for legal council
- ▶ Practical application of tunnelling methodology and techniques
- ▶ Management of site operations from feasibility to completion
- ▶ Tunnelling methodology and constructability
- ▶ Tunnel bid assistance
- ▶ Tunnel shaft risk and mitigation
- ▶ Evaluation and implementation of tunnel systems and logistics
- ▶ Quality Control implementation and audits
- ▶ Water stop solutions
- ▶ Insitue grouting
- ▶ Back fill grouting solutions
- ▶ Independent assessor and auditing of tunnel sites for client and contractor



Plant Site Investigation/Design (Indonesia)



Somerton Road Pipe Jacking

Relevant Projects

Civil Infrastructure Projects completed by Mining One staff include:

- ▶ Palmer Street Main Drain Diversion investigation and contract management (VIC)
- ▶ Somerton Road pipejacking tunnel review and construction supervision (VIC)
- ▶ Cibaliung Gold Plant geotechnical investigation and recommendations (Indonesia)
- ▶ Walhalla surface infrastructure investigation and foundation design (SA)
- ▶ Maldon Water Management Dam investigation and contract management (VIC)
- ▶ Northern Diversion Sewer geological investigation and route selection (VIC)
- ▶ Victorian Desalination plant site geotechnical investigation (VIC)
- ▶ Coal Connect railway extension and duplication and construction supervision (QLD)
- ▶ Sunshine Rail Duplication geotechnical investigation (VIC)
- ▶ Northern Sewer temporary works geotechnical design (VIC)
- ▶ Western Corridor pipeline investigation (QLD)
- ▶ Epping North Stage 4 Sewer geotechnical investigation (VIC)
- ▶ Blackwood sewer pipeline geotechnical investigation (VIC)
- ▶ Siana Gold Plant and Tailings Dam geotechnical investigation (Philippines)
- ▶ Tunnel investigations and ground support design (City Link, Jindabyne Ski Tube, Sugarloaf Dam)
- ▶ Annual dam inspections (New Moon TSF, Hazelwood Power, Goulburn Valley Dams)
- ▶ Waurm Ponds railway embankment investigation, stability analysis and design (VIC)
- ▶ Falls Creek Resort Management slope stability assessment, remedial designs and construction supervision (VIC)

For more information please contact:

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