

Mine Closure & Rehabilitation

Mining One is an exciting team of highly experienced and professional mining, geotechnical and geological 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.

At Mining One, we respect and value the planet's diverse ecosystems, people and resources. Our team approaches each project with an environmentally conscious mind, ensuring that our practises are not only sustainable but safe.

Mining One's team focus in the fields of:

- Rehabilitation and mine closure planning and implementation
- Stability assessments for design of long term closure open pit slopes and underground mine crown pillar stability
- Mine geochemistry evaluation and management
- Mine acid rock drainage and waste characterisation
- Hydrogeological investigations (including seepage monitoring, dewatering and supply)
- Compilation and management of baseline studies, EIS/PER and approvals process
- Landfill design, monitoring and management

Services Offered

- Hydrocarbon management for industry
- Landfill environmental management plans
- Waste management and recycling strategies
- Groundwater studies
- Groundwater monitoring of mines, facilities, smelters and tailings
- Waste water assessment
- Environmental monitoring
- Land capability
- Site compliance
- Hydrogeological assessments
- Statutory environmental audits

Project Examples

MMG Century Mine, West Wall Liner (QLD)

Completion of design and construction methodology for hybrid liner system over 9,000m² open cut mine wall crest area for the prevention of infiltration of wet-season rainfall; root cause of pit wall instability. Stability assessments for design of long term closure open pit slopes and underground mine crown pillar stability.

Mt Windsor - Highway Reward Mine (QLD)

The open cut and underground mine is located near Charters Towers in Queensland. The site moved into closure in 2005, and Mining One has provided technical advice, monitoring data collection, and expert opinion during the Transitional Environmental Program since 2010, focusing on slope stability and long term hydrology design.

Woodlawn Mine (NSW)

This open pit/underground mine site is located near Canberra in NSW. A detailed investigation of the completed open pit was performed while the underground was still operating. The project involved converting the open pit to a waste repository for Sydney, to operate for a period of 40-50 years, requiring long-term stability of the open pit.

Misima Mine, Misima Island (PNG)

Risk assessment of about 6 open pits, mine infrastructure (including local walking tracks) prior to mine closure. Examined long term use of pits for local people.

Peak Hill Gold Mine (NSW)

Several open pits in weak rock have been mined near the town of Peak Hill in Central NSW, Australia. Water supply reservoirs and various access roads near the completed open pits near the town were investigated for long term stability. Risk assessment completed on all pits for tourist walks and lookouts.

Alcoa - Anglesea Coal Mine (VIC)

The purpose of the study is to undertake a high level assessment to review a number of closure options and to assess the remediation requirements, and estimate the costs.

Angas Zine Mine (SA)

Mining One completed the long term underground void stability for the underground mine which is located beneath public infrastructure.

Aprire Logistics, Aspire Zone (Qatar)

Design/implementation of a groundwater drilling program within a dual fractured limestone aquifer. Assessment of potential Manage Aquifer Recharge at depth and brine reinjection options (post treatment) within the saline aquifer at depth.

ABOUT US

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

www.miningone.com.au