

ABOUT US

Civil 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.

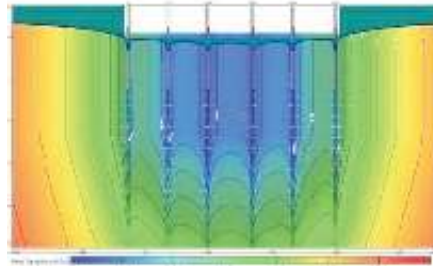
Our well respected team has extensive industry knowledge and experience in a diverse range of disciplines.

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.

Mine Hydrogeology

With our engineering knowledge and skills using groundwater analysis and industry standard modelling packages we are able to provide safe, cost effective solutions which reduce mine operating costs, increase productivity and maximise economic benefit.

From planning field programs through hydrogeological investigation, modelling and analysis we provide consultation for effective water management to assist in assessments relating to a range of groundwater issues such as water resource, water management and dewatering.



Services

Ground Water Engineering

- Dewatering and groundwater depressurisation
- Groundwater management
- Hydrology and water balance
- Water management planning
- Drainage and slope stabilisation
- Groundwater depressurisation and drainage
- Piezometer installation, monitoring and piezometric analysis
- Tailings storage and dewatering
- Flow and transport numerical modelling

Water Resources

- Groundwater exploration
- Well and borefield installation and optimisation
- Investigation programs, packer test, pumping test
- Hydraulic testing program analysis
- Water quality assessment
- Sustainable resources evaluation
- Water demand and storage evaluation

Environmental Hydrogeology

- Design and complete monitoring programs
- Hydrogeological evaluation
- Environmental risk assessment
- Licensing, permitting and compliance
- Groundwater-surface water interaction
- Contaminated groundwater and acid mine drainage
- Closure, rehabilitation and remediation planning

Relevant Projects

- Auzex Bullabulling - Bore field development (WA)
- BMA Coal - Water management (Moranbah, QLD)
- Alcyone Texas Silver Mine - Pump testing and pre-dewatering assessment
- Marengo Yandera Mine - Conceptual dewatering assessment
- MWJV Highway Reward Copper Mine - Hydrogeological assessment, surface water and groundwater modelling, drilling supervision and monitoring instruments installations
- Aloca Anglesea Coal Mine - Water balance assessment
- GRT Savage River Magnetite mine - Hydrogeological assessment for dewatering studies
- Bass Metals Hellyer Mine - Mine flooding hydrochemical assessment
- CrocGold Stawell gold mine - Pit closure hydrogeological assessment & numerical modelling
- NRW Carmichael (Adani) - Dewatering assessment prior to pre-stripping