

# Instrumentation & Monitoring

The Technical Services Division at Mining One has a unique blend of seasoned professionals with extensive “hands on” experience in a variety of locations and environments. We can perform all aspects of a successful measurement or monitoring program from design and planning to implementation, data analysis and final reporting in underground and open pit projects. These combinations make us a “One Stop Shop” for all your Geotechnical Instrumentation and Monitoring needs.

## Underground Geotechnical Capability

### Stress Measurement Programs and Stress Monitoring

- HI Cell
- Hydrofracturing
- Borehole Slotter

### Ground Control Management Plan

- Independent third party auditing GCMP

### Ground Support (QA/QC, etc.)

- Independent Audits
- Ground Awareness Training
- Non-destructive Testing
- Pull Testing: Rock Bolts, Friction Bolts, Cable Bolts

### Rock and Ground Support

- Seismicity Monitoring
- Slough Cables
- SMART Cables
- Closure Monitoring
- Tell Tales
- Crack Monitoring
- TDR's
- MPBX
- Equipment Installation
- Monitoring
- Analysis
- Data Review and Interpretation

### Fibre Reinforced Shotcrete

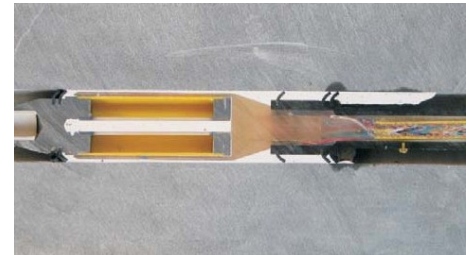
- Beam testing
- Penetrometer testing
- Early Age strength determination
- Short and long term UCS core testing

### Video Inspections

- Ground support (e.g. Friction Bolts)
- Ore passes and ore pass inspection holes
- Bore hole observations

### Water Monitoring Equipment

- Planning
- Installations
- Monitoring (hand held, data logging)
- Borehole Piezometer
- Pressure Transducer



## Example Projects by Mining One Personnel

- Beaconsfield (TAS): In-situ Stress Measurements
- Cracow (QLD): In-situ Stress Measurements
- Tritton Copper (NSW): In-situ Stress Measurements
- Renison Bell (TAS): In-situ Stress Measurements
- Ballarat Gold Mine(VIC): Operational Geotechnical Support, QA/QC ground support monitoring, In-situ Stress Measurements us HI cells, ground monitoring using SMART cables, and extensometers and closure meters
- Perseverance (WA): Operational Geotechnical Support, QA/QC ground support. Testing of ground support elements, In-situ Stress Measurements, installations of Ground Monitoring Equipment
- George Fisher Mine (QLD): Operational Geotechnical Support. Testing of ground support elements.
- BMA Bowen Basin (QLD): Water Standoff Project. Open Pit Land Bridge Monito

## 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:

[www.miningone.com.au](http://www.miningone.com.au)