

# Drilling Programs – An Efficient Approach

Mining One personnel have managed and supervised numerous drilling programs, both within Australia and overseas. The work has covered geological, geotechnical and hydrogeological data collection. We encourage our clients to try and collect the optimal amount of data from each drill hole, whether it is resource or metallurgical drilling. We have demonstrated the ability to innovate and drive the costs of investigations down while still creating data of the highest possible quality.

## Data Collection Opportunities

- Combining geology / metallurgy / geotechnical / hydrogeology / environmental and database management is feasible and offers large project cost and time savings.
- Selected exploration holes can be used as groundwater / environmental holes by installing standpipes or piezometers, providing the mining company with early groundwater data and commence baseline remote collection of data.
- We encourage clients to collect maximum data from each hole. This can mean the reduction or elimination of specific geotechnical and/or hydrogeological drill holes later on.
- Fewer drill holes means large cost savings. Also combined data at one location, allows for reliable coupled modelling (3D coupled analysis of groundwater and geotechnical).
- Compilation of a full dataset, reduces uncertainties for the mining company and eliminates re-mobilising drill rigs.
- Telemetry can be designed for your site, providing current data at your fingertips. For overseas or remote work we can train local professionals and/or technicians providing long term cost savings to our clients.
- Mining One involvement can range from on-site QA/QC audits, on-going interpretation of the data through to fulltime logging, training and drill supervision.
- On some drilling programs, resource drill holes can be used for on-going monitoring purposes e.g. hydrogeological, environmental and geotechnical.



## Key Points

- Drill fewer holes – save time and money
- Maximise data collected from resource drilling programs
- Combine data collection campaigns – use same holes for geology, geotech and hydro
- Train local staff and use mine site employees to save money

## Data Analysis

- Collecting both exploration and environmental data at the same time can speed up the approval process, and start mining earlier.
- By completion of drilling and testing all the conceptual models can be developed for mine planning and design.

## Sample of Projects

- Rio Tinto Iron Ore (various sites in the Pilbara)
- Savage River and proposed Southdown Magnetite mines (TAS/WA)
- OK Tedi (PNG)
- Wafi Golpu Project (PNG)
- Siana Gold Mine (Philippines)
- Cibaliung Gold Mine (Indonesia)
- Ernest Henry (WA)
- BMA – various coal strip mines (QLD)



## 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)