

GEOHART is a Geotechnical Consultancy specialising in the mining and civil areas of:

- Underground Mining Rock Mechanics Reviews
- Shaft Assessments / Reviews
- Open Cut Mine Slope Stability Assessments (e.g. High & Low Walls and Waste Dumps)
- Road Slope Stability Assessments
- Blast Vibration Monitoring
- Non-Destructive Testing of Installed Rock Reinforcement

GEOHART CONSULTANTS are in the business of providing an efficient Geotechnical, Geomechanical and Blast Monitoring Consulting service through innovation and experience for mining and civil projects. GEOHART was established in 2009 by Wouter Hartman – Principal Geotechnical Engineer.

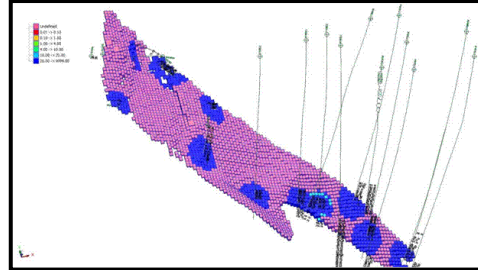
## Underground and Surface Mining – Geotechnical Service

We have the Geotechnical capability of providing clients an excellent service in underground mine planning, development and risk management. We have the capability to:

- Assess rock mass quality through drilling supervision, logging and mapping.



- Geotechnical Block Modelling



- Design and locate underground accesses.



- Conduct non-destructive integrity testing of rock reinforcement.



- Identify failure modes through site investigation.

## GEOHART CONSULTANTS Pty Ltd

ABN: 28 979 550 809 / ACN: 137 859 128

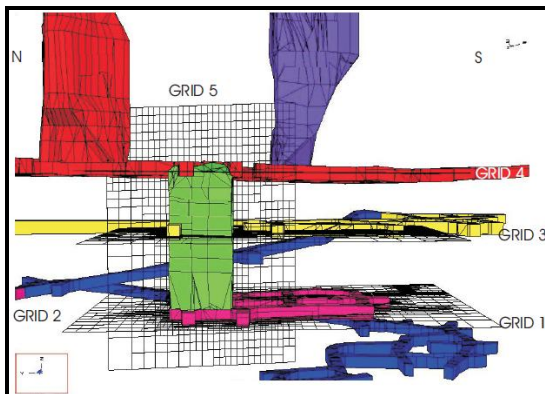
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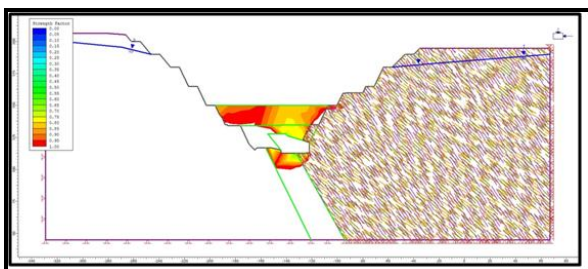
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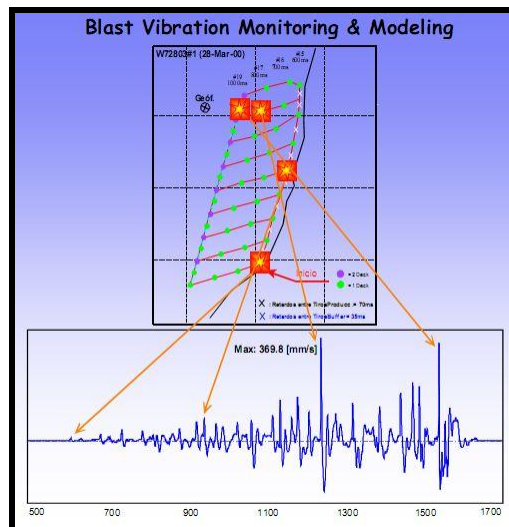
- Review chosen or proposed mining methods for Rock mass stability. Conduct numerical analysis to determine potential excessive unacceptable ground movement (3D and 2D software stress analysis).



- Provide geotechnical input for shaft designs, raise boring and shaft lining.
- Prepare Ground Control Management Plans.
- Conduct ground support designs – rock reinforcement and surface support.
- Evaluate specialised shotcrete design and application – e.g. early compressive and shear strengths.
- Quantification of Geotechnical Risk and slope design optimisation.



- Vibration Monitoring in mining operations including ambient vibrations and airwave monitoring.
- Environmental impact and mitigation (vibrations, dust, noise & fly-rock).



- Shallow and intermediate foundation studies.



For assistance please contact:

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