

# Mining Capabilities



Western Australia's leading independent team with a proven track record in groundwater/ hydrogeology, surface water/ hydrology, auditing, contaminated land management and development projects. We combine reliable expertise with regulatory knowledge, delivering high quality output and performance on time and budget. We welcome technically challenging projects from commercial & government clients

## Groundwater Resource Exploration

- Desk appraisal
- 26D Exploration Licenses
- Geophysical exploration
- Design/ supervision of drilling programs
- Test pumping (AS2368)
- Monitoring programs

## Potable and Process Water Supply

- Potable water analysis and interpretation
- Source protection assessments
- Multiple barrier (ADWG 2004)
- Monitoring program design and implementation
- Sustainable yield assessment

## Borefield Construction and Development

- Design/ supervision of bore construction
- Hydraulic testing
- Pump/ riser selection and installation
- Wellhead design
- Pipeline design and construction

## Dewatering

- Design of dewatering programs
- Implementation and management
- environmental factors/ beneficial uses/ impacts
- Modelling assessments
- Subsidence assessments
- Water inflow/ disposal/ reuse/ reinjection

## Numerical Modelling

- Regional/ catchment/ local
- Borefield interference
- Radius of influence
- Dewatering assessments/ design
- Groundwater/ surface water interaction

## Surface Water/ Hydrology:

- Open pit evaporation
- Modelling
- Rainfall/ Run-off/ Infiltration
- Water balance

## Contamination

- Site investigation
- Hydrochemical sampling/ analysis/ interpretation
- Solute transport modelling
- Risk assessment
- Design & implementation of contaminant recovery programs

## Hydrogeological Reports

- Groundwater well licensing (Form A, 5C license to take groundwater)
- (SWP19) Hydrogeological assessments, H1, H2 and H3 level
- Preparation of operating strategies
- Borefield Monitoring Reviews (BMRs)
- Operating license compliance

## Aquifer Storage and Recovery/ Managed Aquifer Recharge (ASR/ MAR)

- Initial appraisal
- Numerical Modelling
- Hydrochemical modelling (phreeqc/ netpath)
- Water treatment
- System design and implementation

## Tailings Dams

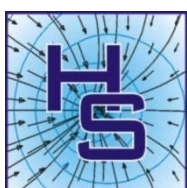
- Design of monitoring programs
- Seepage appraisal
- Groundwater quality impact
- Reporting

## Acid Rock Drainage (ARD)

- Investigation
- Acid/ base accounting
- Management planning
- Cover design
- Neutralisation
- Dewatering management plans

## Geology/ GIS:

- Interpretation
- Geophysics



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**HYDROSOLUTIONS**  
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