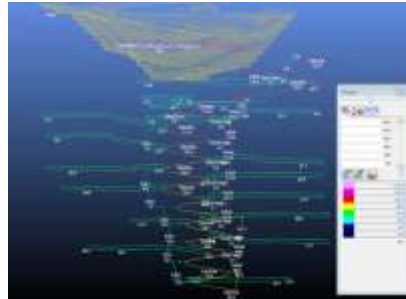


Mine Ventilation Engineering Services

Mining One Consultants have experts in the field of ventilation engineering. Our approach is to integrate the design and optimisation of the ventilation system into the total mine plan. Our analysis will ensure optimal productivity and safety for the cleanest and cheapest ventilating air.



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

Primary and Secondary Fan Selection

- Determining mine ventilation requirements
- Primary and secondary fan selection
- Developing detailed fan specifications
- Project management of tendering
- Capital cost estimates
- Project management of installation of ventilation infrastructure

Mine Ventilation System Design and Modelling

- Design and specification of major capital works: including ventilation shafts, refrigeration plant.
- Modelling and optimising re-entry times
- Staged Heat, contaminate air quantity modelling
- Life of mine ventilation cost modelling and optimisation
- Optimisations of ventilation system including determination of optimal return airway sizing
- Optimisation of mine designs to account for mine ventilation best practice

Site Audit Service

- Ventilation efficiency review
- Optimisation of ventilation and equipment requirements
- Risk assessment and entrapment management
- Trouble shooting: Locating heat and contaminant sources, ventilation leakage analysis, recirculation assessment and 'dead-spot' assessment
- Heat management advice
- Dust control advice
- Contaminant management monitoring and advice including Diesel particulate management
- Primary and secondary ventilation surveys
- Fan performance assessments
- Ventilation risk assessments

Specific Mine Experience and Studies

Our experts have worked at numerous mines as ventilation engineers. We have completed many ventilation studies and assisted operations with improving their ventilation system. Recent work includes.

- Newmont Tanami diesel particulate management plan
- Siana Underground Feasibility Study – ventilation system design, heat modelling optimisation and fan selection capital and operating cost estimates (Red 5)
- Mt Fisher Preliminary Feasibility Study – ventilation system design, optimisation and fan selection (Rox Resources)
- Mt Gordon ventilation review (Lighthouse Minerals) including heat modelling and refrigeration plant cost estimate
- Gokona Underground Definitive Feasibility Study – ventilation system design, optimisation and fan selection (Africa Barrick Gold)
- Achmmach Underground Mine Planning DFS – ventilation system design, optimisation and fan selection (Kasbah)
- Review of long term ventilation plan White Mountain (Eldorado): Specification and selection of primary fans for Barrick – Fairyland Mine, Specification and selection of primary fans for Western Metals – Gongewa Mine