Coal – Mining & Geotechnical

Mining
• Conceptual, scoping, pre-feasibility and feasibility studies
• Design and implementation of pre-strip dig and dump plans
• Open-cut mine optimisation, design and scheduling
• Design and implementation of dragline and dozer push plans
• Mine planning and scheduling, conceptual and long term
• Audits and reviews – safety, insurance and costs
• Contract documentation, supervision and auditing
• Design and implement drill and blast plans
• Short and medium term planning for overburden movement
• Project management
• Mine rehabilitation

Geotechnical
• Pit slope stability analysis and design, including numerical stress modelling
• Excavation monitoring design using state-of-the-art systems
• Conceptual, scoping, pre-feasibility and feasibility studies
• Geotechnical reviews and audits
• Stability assessment of natural slopes and waste dumps
• Ground awareness and geotechnical hazards training
• Geotechnical data collection training
• Civil geotechnical investigations

Geology
• Competent people qualified under the JORC Code
• Independent Experts qualified under the VALMIN Code and with ASIC Regulations
• Conceptual, scoping, pre-feasibility and feasibility studies
• Mineral Resource and Ore Reserve Estimation
• Valuation of mineral assets
• Prospectus preparation
• Independent Expert (Geologist) reports
• Due diligence for mergers and acquisitions
• Exploration program management
• Geological logging and database preparation

Relevant Coal Projects
• Anglesea Coal Mine (VIC) – Investigation, design and installation of ground movement and groundwater instrumentation, LOM Planning, Budgets.
• Yallourn Coal Mine (VIC) – Southern Batters slope stability geotechnical review and a review of factors leading to a major failure of the Latrobe River Batters
• Rolleston (QLD) - Cut/fill stability assessment and design
• Loy Yang/Yallourn and Morwell (VIC) - Excavation, transportation and bunkering of coal and dumping of overburden, fire and water services artesian de-watering, mine rehabilitation
• Leigh Creek Coal Mine (SA) – Investigations and stability analysis of large-scale open-pit wall failure, including numerical stress modelling, design and implementation of monitoring program to ensure safe ongoing operation of the pit, ongoing regular reviews, Mine Planning, Budgeting.
• Bengalla Coal Mine (NSW) - Slope stability analysis of lowwalls and dragline benches and regular reviews
• Hazelwood Coal Mine (NSW) – Regular geotechnical reviews
• Eagletfield Coal Mine (QLD) – Geotechnical reviews and stability analyses
• BHP Mitsubishi Alliance (QLD) - Geotechnical Engineering support, review of the in-pit water stability management issues, hydrogeological drilling, installations, review and reporting.
• Anglo Coal Dawson site/projects (Central Queensland) - Pit & Dump stages design includes its schedules, setting up TALPAC template for cycletime calculation.
• Abadi Projects, Coal FE Resources (Indonesia) - JORC report for optimisation
• Gunung Bryan Project, PT. Petrosea, TBK (Indonesia) - providing 3 months Rolling Plan, prepare monthly claim, profit and loss monthly report.