

Mine Closure & Rehabilitation

Our extensive provision of mine closure designs and environmental management strategies are based on best industry practice and field tested control measures for managing identified environmental risks.

Profile

COOE are specialists in soil amelioration and soil moisture monitoring, rehabilitation tracking (using Ecosystem Function Analysis and other specialist methods), revegetation monitoring, metal mobilisation in ecosystem studies and germination trials.

COOE can provide leading edge technology in landform design with in-house software programs to calculate soil and waste rock volumes, structural geometric boundaries, cost saving design and complementary cost calculation software for mine closure planning.

Our Services

- All stages of mine rehabilitation from research to post construction monitoring
- Erosion control, landscape remediation and drainage works
- Acid metalliferous drainage (AMD) management services: model verification, waste rock characterisation, risk assessment and management plan development and validation
- Environmental geochemistry including forensic investigations and metal mobilisation studies

- Landform cover system design
- Landform design from the research and design stage to full implementation and post construction monitoring
- Mine closure planning and cost calculations including developing site specific cost calculation software and developing mine closure criteria
- Post closure performance auditing
- All aspects of closure and rehabilitation monitoring.

COOE can provide specialist software for volume estimation, design and/or verification of different cover systems with specialist skills in:

- store & release covers
- double layer covers
- underdrainage covers
- ponded covers
- hummock dumped covers
- site specific experimental cover designs.



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