ATC WILLIAMS

TAILINGS.WATER.WASTE.

INTEGRATED FACILITY CLOSURE

ATC Williams provides lifecycle closure, rehabilitation and advisory services for tailings, water, and mine waste storage facilities.

Our multi-disciplined, integrated approach produces safe, stable, non-polluting landforms. Stakeholder collaboration, governance and sustainable management of the environment guide our solutions.

INNOVATIVE CLOSURE SOLUTIONS

Develop your projects with tailored, innovative, and future-oriented solutions.

STRATEGY SELECTION

- Options definition and appraisal
- Governance and Risk Management, identification and assessment of risks from landforms with problematic waste
- Closure plan development aligned with global governance practices and local legislative requirements

TECHNICAL ASSESSMENTS

- Site characterisation, geotechnical and geochemical characterisation of tailings, waste rock and rehabilitation materials
- Optimised options based on numerical modelling of slope stability, erosion, water and contaminant flux through containment structures

DETAILED LANDFORM GEOMATIC DESIGN

- Cover and containment systems
- Geomorphic landform design
- Erosion and landform evolution modelling
- Constructability assessment and solutions for soft tailings
- Hydrology and Hydrogeology

CLOSURE IMPLEMENTATION

- Detailed construction specification
- Quality control and quality assurance management
- Landform performance monitoring

ADVISORY SERVICES

- Independent Technical Review
- Regulatory Compliance
- Governance & Assurance
- Management Frameworks

SUSTAINABLE CLOSURE AND REHABILITATION

Our expertise in mine waste storage facilities, rehabilitation and water management complements our clients' facility closure compliance and social responsibility objectives. With an extensive knowledge of tailings and mine waste, surface and groundwater management practices, and governance challenges, we are positioned to support our clients in transitioning from operations to closure.

We deliver mine waste storage facilities that are safe, non-polluting, and aligned with post-mining land use. We assist in developing innovative and cost-effective closure solutions for the entire life of the asset.

FACILITY CLOSURE AND REHABILITATION BENEFITS

Extensive experience in the construction of cover systems on Soft Tailings

Manage environmental risk through life of facility planning and scheduling that incorporates water management and site-wide material balance

Strategic cost benefits include planned and staged infrastructure delivery, closure development and progressive rehabilitation

Operational risk management and life-of-asset cost reduction

Closure designs that give confidence to regulators and stakeholders

TYPICAL SOLUTIONS WE DELIVER

You will benefit from our extensive background in facility closure. Ask our leading experts about:

- Geotechnical and geochemical characterisation studies for post-mining final landforms
- Assessment of long-term and post-operational risks
- Specialised expertise in assessing and developing closure designs for Tailings Storage Facilities, Waste Rock Storage Facilities and Final Pit Voids
- Mine waste containment design capabilities and expertise in cover designs, site water management and groundwater hydrology
- Final landform water management, pit lake assessments and hydrogeology studies to identify long-term risks and opportunities to inform appropriate closure planning
- Numerical modelling simulates the long-term behaviour of mine waste, tailings storage embankments and groundwater conditions for closure design

PARTNERSHIPS

Our clients are found in government, infrastructure, and mining.

We partner with miners, councils, universities, commercial operators, and other specialist engineering consultants.

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