



BENCH REMEDiation

Client:

BMA Coal Operations– Goonyella

Project Duration:

3 months

Enquires:

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PROJECT BRIEF

The GS1 Tailings Dam has undergone considerable erosion on the southern embankment in recent years and remediation is required to prevent further risk or hazards. A first for BHP, AE Group constructed a buttress bench to eliminate wall failure.

Project Challenges

Working on a LIVE TSF required our construction program for sequencing and timeframes to be on point. Due to the nature of TSF's walls and potential failures, our team safety completed the project adhering to stringent health, safety and design protocols.

The successful construction of a buttress bench and remediation works, AE Group have been able to minimise further potential risks and deliver a cost-effective solution whilst increasing BHP's social value.

Project Approach & Objectives

- Remediation of existing / Live tailings dam
- Rehabilitation of deep scours and surrounding landscapes
- Construction of certified zoned embankment (up to 14m high)
- Tie-in to existing live tailings dam
- Topsoiling management and application
- Scarify rehabilitated tailings dam
- Cultural Heritage Management
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- Safety and environmental management plans for compliance with project specific approvals
- Bulk earthworks and excavation including fill and rock protections
- Management of certified geo-technical testers for compliance
- Sub contractor management of gypsum and hydro-seeding