

Case Study: Wescoal Mine Water and Waste Management Project

Client: Moabsvelden

Location: Delmas, Mpumalanga

Project Duration: April 2022 - August 2022

Sector: Mining Infrastructure - Water Management

Project Overview

Axsys Projects designed and constructed a comprehensive water and waste management system for Wescoal Mine operations. The project addressed critical environmental and operational requirements through integrated water supply and waste management infrastructure.

The fast-track delivery timeline required efficient project management and coordination across multiple technical disciplines.

Key Deliverables

- Complete system design for water and waste management
- Installation of overland water supply pipe networks
- Pumping station construction and commissioning
- Conservancy tank installation and integration
- Elevated water storage tank systems
- Associated mechanical and electrical works

Technical Innovation

The project incorporated:

- Integrated water supply and waste management systems
- Elevated storage solutions for operational reliability
- Pump system redundancy for continuous operation
- Environmental compliance throughout design and construction

Project Benefits

- Enhanced operational water security for mining activities
- Improved environmental management and compliance
- Reduced operational risk through system redundancy
- Cost-effective solution delivered within tight timeframes

Design and Build Approach

Axsys Projects' integrated design and construction capability enabled:

- Optimised system performance and cost efficiency
- Reduced project timeline through parallel design and construction activities
- Single-point responsibility for project delivery
- Seamless coordination between design and construction teams

Project Classification: Water Management Infrastructure

Contract Type: Design and Build