

# Mining and minerals

## GOING THE EXTRA MILE TO ELIMINATE ENVIRONMENTAL POLLUTION RISK

### OUR CLIENT



- African Rainbow Minerals (ARM) is a leading South African diversified mining and minerals company with operations in South Africa and Malaysia.



- ARM mines and beneficiates iron, manganese and chrome ore, platinum group metals (PGMs), nickel and coal.



- The project site is in Mpumalanga, South Africa.

### THE CHALLENGE



- The client faced the rising levels in the Pollution Control Dams (PCDs), leading to the risk of an environmental spill.

### THE ASK

To treat smelter effluent water so that it could be safely discharged into a natural water body, safeguarding the community and make it fully compliant with the Water Use License (WUL).

### THE SOLUTION

A turnkey solution providing a robust and flexible effluent treatment plant. PROXA was responsible for the design, supply, construction and operations of the plant.

### PROCESS



## FEED WATER



- Contaminated effluent from chrome smelter

## PRODUCT WATER



- High quality permeate for river discharge
- Compliant with Water Use License

## SUCCESS OUTCOMES

- ✓ Groundwater contamination was addressed
- ✓ Achieved full compliance with environmental obligations
- ✓ The use of a cutting-edge membrane treatment solution
- ✓ The project was completed on time and within budget

Talk to us about managing effluent for safe environmental discharge.

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