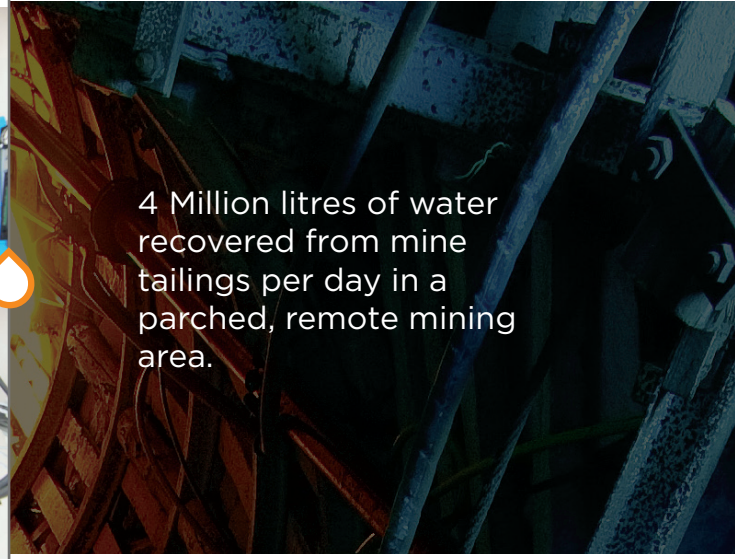


KALGOORLIE, AUSTRALIA

WATER RECOVERY FROM TAILINGS STORAGE FACILITY DECANT WATER



4 Million litres of water recovered from mine tailings per day in a parched, remote mining area.

THE CHALLENGE

PROXA previously worked with this mining client to precondition their Tailings Storage Facility (TSF) decant effluent so it could be sent to an evaporation pond. In this second phase of the project, PROXA was commissioned to recover the TSF decant water for reuse on-site, instead of it going to the evaporation pond.

OUR SOLUTION

PROXA supplied an ultrafiltration (UF) plant to recover and treat the raw TSF water so that it is suitable for further treatment with Reverse Osmosis (RO).

HOW PROXA ADDED VALUE

PROXA was able to address our client's technical and financial requirements by supplying a modular ultrafiltration plant from our AquaMobile® rental fleet. The modular nature of the equipment allowed our customer to plan for future expansion, without incurring up-front cost. The plant has now been successfully operating since July 2016, with capacity doubled in October 2016.

FEED WATER

Decant water from a minerals processing plant Tailings Storage Facility.

PRODUCT WATER

Water for reuse in other plant processes.

PERFORMANCE TARGET

◇ Product flow rate 80 m³/hr, expanded to 160 m³/h

PROCESS

◇ Ultrafiltration (UF)

ENVIRONMENTAL PROTECTION

PROXA was able to recycle and reuse effluent mine water that would otherwise be evaporated and wasted.

Client: A member of the mining industry