

CASE STUDY

PROJECT	POTABLE WATER FOR GOLD MINE
PRODUCT	Brackish Water Reverse Osmosis (BWRO)
INDUSTRY	Mining
LOCATION	Goldfields, Western Australia



BACKGROUND

When a new mining company was planning on restarting operations at an existing gold mine in the Goldfields region of Western Australia, they contacted MAK Water to discuss water treatment options. They required potable quality water for both potable use at the accommodation camp and occasional process use.

The available saline bore water needed to be treated to potable quality and they required a simple, fully automated, robust design, using quality equipment to provide a reliable solution, all at a reasonable cost.

SOLUTION

- Custom design and manufacture of a Brackish Water Reverse Osmosis (BWRO) plant
- Containerised (1 x 10') with air conditioning
- Calcite filter for chemical free pH correction
- Ultraviolet steriliser on potable water distribution pump discharge for chemical free sterilisation
- Fast delivery time
- Onsite commissioning and operator training



10 m3/day Brackish Water Reverse Osmosis (BWRO) plant

RESULTS AND BENEFITS

- **Plant Reliability.** MAK Water's high quality equipment and robust design has provided reliable operation with minimal maintenance requirements.
- **Turnkey Solution.** Custom "fit for purpose" design in a durable prefabricated containerised system
- **No Dangerous Chemicals.** Chemical free pH adjustment and sterilisation for simple and safe operation
- **Compliance.** Maintains compliance with Australian Drinking Water Guidelines (ADWG) for potable water



The Brackish Water Reverse Osmosis plant on site in the Goldfields