



A Subsidiary of the RWL Water Group USA



# REVERSE OSMOSIS BORE WATER DESALINATION FOR OAKEY, QUEENSLAND, AUSTRALIA

## THE FACTS

**LOCATION:** Oakey, Queensland, Australia

**APPLICATION:** RO Bore Water Desalination

**DATE OF INSTALLATION:** Oct. 2008

**PROBLEM:** Limited supply of potable water

**SOLUTION:** Provided a reverse osmosis desalination system

**CAPACITY:** 2,500 m<sup>3</sup> /day

**FOOTPRINT:** 450 m<sup>2</sup>

## AEROMIX IS THE EXCLUSIVE SOURCE FOR NIROSOFT TURNKEY SOLUTIONS

- DESALINATION OF BRACKISH AND SEA WATER
- EFFLUENT RECLAMATION
- SUPPLY OF DRINKING WATER IN REMOTE LOCATIONS OR DISASTER AREAS
- DEMINERALIZED WATER
- WASTEWATER TREATMENT

## ABOUT AEROMIX

AEROMIX is a world leader in water and wastewater treatment equipment. AEROMIX offers full lines of treatment systems, aeration, equipment, and solar-powered equipment. Learn more by visiting [www.aeromix.com](http://www.aeromix.com).

## Challenge

Oakey is a rural town located in the Toowoomba Shire Council in Queensland, Australia. We were called upon by the local council to design a reverse osmosis system for desalination of brackish bore water to supplement its limited supply of potable water.

## Solutions

A reverse osmosis desalination system was provided to supply 2,500 m<sup>3</sup>/day of potable water to Oakey. The water undergoes pre-treatment filtration, desalination, remineralization to improve taste, and post-treatment disinfection to ensure purity. To minimize waste disposal, backwash water is recovered. The system met all Australian water quality requirements and is now being operated and monitored by the local council, with on-demand aftersales support by our team of experts.

## System Description

- Pre-treatment by media filtration
- Reverse osmosis membranes for desalination of brackish water
- Remineralization
- Post-chlorination disinfection
- Recovery of media filter backwash water to minimize waste disposal to evaportaion ponds

