

CASE STUDY

Surface Water Treatment Production of High Quality Potable Water



Client: NSW National
Parks & Wildlife
Service, Australia

Treatment of river
water to supply safe
drinking water

The Challenge

The National Parks & Wildlife Service (NPWS) required a water treatment plant to upgrade existing operations and to allow provision of potable water to the site, adhering to the Australian Drinking Water Guidelines.

The water treatment solution is designed to treat river water high in Natural Organic Matter (NOMs) as the primary source. It will be supplemented with groundwater during dry spells.

Surface Water Treatment

Production of High-Quality Potable Water



Ceramic membranes



Ceramic membranes submerged

Our Solution

Infinite Water supplied an integrated, turn key treatment solution for NPWS. The multiple-barrier treatment process features next-generation flat sheet ceramic membrane filtration technology characterised by its high-flux, superior mechanical & chemical resistance, and ease of maintenance.

The water treatment plant is consistently producing high quality drinking water to ADWG standards.

This solution, the second of its kind in Australia, provides valuable process insights to other councils and utilities looking for reliable and cost-effective solutions for their water treatment needs.

Engineering Services

We offer the full range of engineering solutions including:

- ▶ Demo plants and portable test kits
- ▶ Design & Projections
- ▶ Containerised or skid mounted treatment plants
- ▶ Installation & commissioning
- ▶ Technical support

Features

The system is designed as a containerised package to facilitate shipment and installation. It is fully automated, with process monitoring and control to ensure stable operations.

Automated continuous processing, including sequencing and chemical additions are controlled via the PLC. The system is equipped with remote monitoring for data analysis and for ongoing service and maintenance.

Suitable Applications

- ▶ Sea water (pre-treatment)
- ▶ Groundwater
- ▶ Surface water
- ▶ Municipal sewage
- ▶ Industrial wastewater



IW's NPWS Water Treatment Plant