

Dingo and Duaringa Water Treatment Plant Upgrades

FILTEC
Making Water Safer

Queensland, Australia

Project Snapshot



Client: Central Highlands Regional Council



Capacity: Duaringa: 15.2 L/s;
Dingo: 6.5 L/s



Technology: Ultrafiltration,
Gas Chlorination, PAC Dosing



Source Water: Surface Water



Completion: March 2026

Project Outcomes

- ✓ Membrane-based pathogen protection
- ✓ Automated chlorine residual control
- ✓ Seasonal taste and odour management
- ✓ Integrated chlorine gas safety systems
- ✓ ADWG compliance

Multi-Barrier Treatment Upgrades for Rural Queensland

FILTEC designed and delivered a new ultrafiltration membrane-based treatment plant incorporating Toray ultrafiltration membranes as the primary barrier, supported by upgraded coagulation and chemical dosing systems, secondary chlorination infrastructure, and modern instrumentation and control.

Central Highlands Regional Council required upgrades at its Dingo and Duaringa Water Treatment Plants to strengthen drinking water quality and compliance. Duaringa required an additional pathogen barrier, while both sites needed upgraded chlorination systems to improve residual control.

FILTEC delivered a containerised FILTEC Guardian ultrafiltration system at Duaringa incorporating 20 Memcor L40N membrane modules, together with Wallace & Tiernan gas chlorination and a packaged PAC dosing system for taste and odour management.

At Dingo, FILTEC supplied a Wallace & Tiernan S10K gas chlorination system incorporating dual 70 kg cylinders, automatic switchover, DEPOLOX feedback control and SCADA alarm integration.

Both plants included chlorine gas detection, automatic cylinder shut-off systems and factory-tested packaged equipment. Commissioning verified treatment performance, control functionality and safety system operation prior to handover, providing Central Highlands Regional Council with improved operational confidence and a stronger multi-barrier treatment approach.

