

Castlemaine Water Reclamation Plant UV Upgrade

Victoria, Australia

FILTEC

Making Water Safer

Project Snapshot



Client: Coliban Water



Capacity: 18 MLD



Technology: TrojanUV3000Plus, UV Disinfection



Source Water: Wastewater



Completion: 2024

Project Outcomes

- ✓ Continuous operation during installation
- ✓ Retrofit delivery within a constrained facility
- ✓ Custom structural and civil integration
- ✓ Improved UV maintenance access
- ✓ Ongoing preventative maintenance support

UV Disinfection Upgrade for Non-Potable Reuse and EPA Compliance

Coliban Water required replacement of the aging UV disinfection system at the Castlemaine Water Reclamation Plant to maintain non-potable reuse performance and compliance. The plant services approximately 15,500 people across Castlemaine and surrounding communities.

FILTEC supplied and installed a new TrojanUV3000Plus unit alongside the existing UV system, maintaining continuous disinfection throughout the upgrade works.

Due to space limitations within the existing facility, the project required partial demolition of the existing shed structure, wall reinstatement and construction of a new external mounting platform.

FILTEC also designed and constructed a custom concrete support structure to align the new UV unit with existing connection points within the operating treatment system. To support long-term maintenance, a custom access platform with monorail gantry system was installed for UV lamp rack removal.

Ongoing preventative maintenance support includes UV lamp, wiper and seal replacement services to support continued disinfection performance and operational continuity.

