






Kyneton Non-Potable UV Disinfection Upgrade

FILTEC
Making Water Safer

Victoria, Australia



Project Snapshot

-  **Client:** Coliban Water
-  **Capacity:** 3.8 MLD
-  **Technology:** UV Disinfection, Control Systems, Non-Potable Reuse
-  **Source Water:** Wastewater
-  **Completion:** 2022

Project Outcomes

- ✓ UV disinfection restored following system failure
- ✓ Temporary reactor installed within 7 days
- ✓ Supports EPA discharge compliance
- ✓ Enables non-potable water reuse
- ✓ Automated operation via SCADA integration

UV Disinfection Upgrade for Non-Potable Reuse and EPA Compliance

Failure of the existing UV system at the Kyneton Water Reclamation Plant reduced disinfection reliability, with replacement parts unavailable. The plant treats domestic, commercial and industrial wastewater from over 3,000 customers, with treated water reused for non-potable applications or discharged to the Campaspe River.

To maintain operations, FILTEC installed a temporary UV reactor within seven days of approval, ensuring continued treatment for reuse and discharge.

A permanent solution was delivered using a Trojan UV3000Plus open-channel system. Works included pipework modifications, installation of valves and actuators, a recirculation cooling system, and electrical integration into existing plant controls.

The system was integrated into SCADA via RTU and PLC for automated operation and remote monitoring. Installation was staged to allow the plant to remain operational throughout the upgrade. The new UV system provides consistent disinfection performance for both non-potable reuse and EPA-compliant discharge.

