

The Yarra Park Water Recycling Facility provides water to irrigate the parklands at the Melbourne Cricket Club (MCC)



TRILITY operates and maintains the Yarra Park Water Recycling Facility which produces 600m³ per day of Class A water in summer mode and 200m³ per day in winter mode.



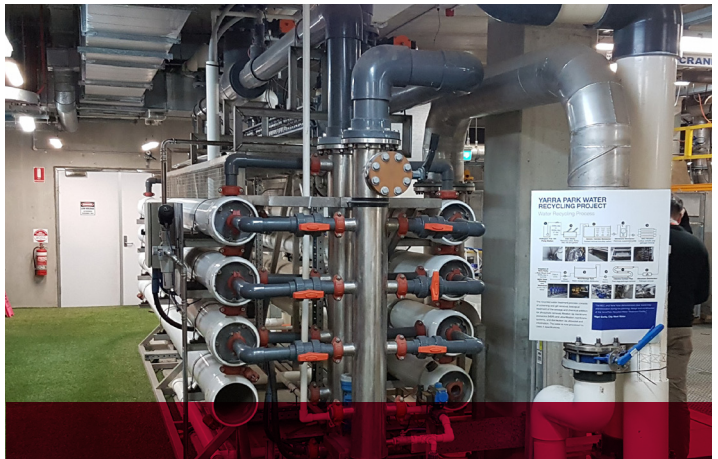
TRILITY operates and maintains the water recycling facility innovatively located beneath Yarra Park, adjacent to the Melbourne Cricket Ground

In April 2020 TRILITY began a 3-year tenure to oversee the operations and maintenance (O&M) of the Yarra Park Water Recycling Facility (WRF) which is owned and managed by the Melbourne Cricket Club (MCC). The facility was uniquely constructed underground in Yarra Park adjacent to the Melbourne Cricket Ground (MCG).

It was designed, constructed and achieved approval under the Victorian Department of Health Class A Validation Guidelines. Moreover, challenge testing was undertaken on the ultrafiltration filters to verify their performance in achieving the required virus removal rates. The plant operates with Health and Environmental Management Plan (HEMP) Approval from the Victorian EPA and Recycled Water Quality Management Plan (RWQMP) from the Victorian Department of Health.

Surrounding the MCG are the grounds of Yarra Park which fosters a connected community with many social clubs utilising the grounds for various group activities. The park also hosts sacred Scar Trees which are of significance to the area's original inhabitants, the Wurundjeri people.

In summer, the plant produces 600m³ per day of Class A water for the irrigation of Yarra Park. In winter, the plant produces 200m³ per day to supply water for toilet flushing and wash down within the Melbourne Cricket Ground. Water is also supplied to Richmond Football Club for the irrigation of Punt Rd Oval during the summer period.



Who

The prestigious Melbourne Cricket Club was founded in 1838 and is regarded as the oldest sporting club in Australia with a membership base of 102,800. The MCC boasts contributing to several historical milestones including drafting the first set of rules for Australian Rules Football and hosting the first-ever game of Test Cricket.

What

The treatment process includes: screening and grit removal; biological nitrogen removal activated sludge process; membrane bioreactor; ultrafiltration; ultraviolet and chlorine disinfection.

Additionally, a two-stage odour control process treats odorous air prior to discharge to the atmosphere which includes a wet chemical scrubber and an activated carbon filter. Chemical dosing systems include aluminium chlorohydrate, sodium hydroxide, sodium hypochlorite, liquid sugar, citric and hydrochloric acids.

All process waste including screenings, waste activated sludge, backwash water, and chemical cleans are discharged to the sewer. The WRF is fully automated, and is currently manned eight hours per day for five days per week.

Where

Melbourne, Victoria

Why

To supply recycled water for the irrigation of Yarra Park and for toilet flushing and wash down within the Melbourne Cricket Ground.

Snapshot

Client	Melbourne Cricket Club
Type of contract	Operations and maintenance
Technology	Biological nitrogen removal activated sludge process, membrane bioreactor, ultrafiltration, ultraviolet disinfection and chlorine
Capacity	600m ³ per day of Class A water
Term	3 years

For further information

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