



Case Study

Mt Gravatt Summit Kiosk

Combined water treatment, recycling and collection plant

The Mt Gravatt Summit Kiosk in Queensland commissioned WaterGurus to install a NovaClear black and grey recycling system to help the site achieve long term water sustainability.

The NovaClear enabled the site to treat and recycle wastewater and then reuse the recycled water for toilet flushing and garden irrigation.

The problem

The Mt Gravatt Summit Kiosk had a limited water supply. Rainwater was harvested but only collected 218kL of water per year versus a demand of over 653kL per year. A combined water treatment, recycling and water collection system was required to meet on-site water requirements.

The WaterGurus solution

All wastewater from the toilets, hand basins and the kitchen will be collected for treatment and recycling by the NovaClear system.

The system also includes advanced secondary treatment, filtration and disinfection processes producing recycled water equivalent to Class A standard. The recycled water is used primarily for toilet flushing with excess discharged through irrigation to landscaped areas.

Water use

The Kiosk requires 2.7kL/day of water per day: 30% for washing and cleaning, 30% for toilet flushing and 30% for hand washing and food preparation and 10% for drinking.

The new system now provides 30% of the water required as well as supplying the surplus to landscaped areas.

Benefits

The NovaClear black and grey water recycling system enabled the kiosk to meet its water needs and achieve long term water sustainability.

In the long term, the NovaClear system will meet the sites water needs with no further water collection.

This flagship project has demonstrated how sites such as the Mt Gravatt Summit Kiosk can better manage water and put less pressure on the water grid in a water-restricted zone.



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