

Magnetic Island

WATER RECYCLING FACILITY



Fast Facts

LOCATION >> 65-73 West Point Road, Picnic Bay, Magnetic Island

QUANTITY OF WATER TREATED >> 34okL per day

TOTAL TREATMENT CAPACITY >> 54okL per day

POPULATION COVERED >> Approximately 1260 people

SERVICE AREA >> Picnic Bay and Nelly Bay

OPERATING HOURS >> 24 hours a day, seven days a week, 365 days a year

NUMBER OF STAFF >> Six across all minor plants (Magnetic Island, Toomulla and Condon)

About the facility

Magnetic Island Water Recycling Facility was commissioned in 2002 with one membrane cell containing 1000 flat sheet membranes. In 2006 the second membrane cell was commissioned with another 1000 membranes.

What is the process for treating wastewater?

The facility uses a process of biological nutrient removal and membrane filtration to remove solids, organic matter and nutrients from the sewage so it can be safe to reuse.

Where is the wastewater discharged?

The treated wastewater is discharged in three locations:

- >> Golf course irrigation
- >> Site irrigation and service water reuse
- >> Local wetland

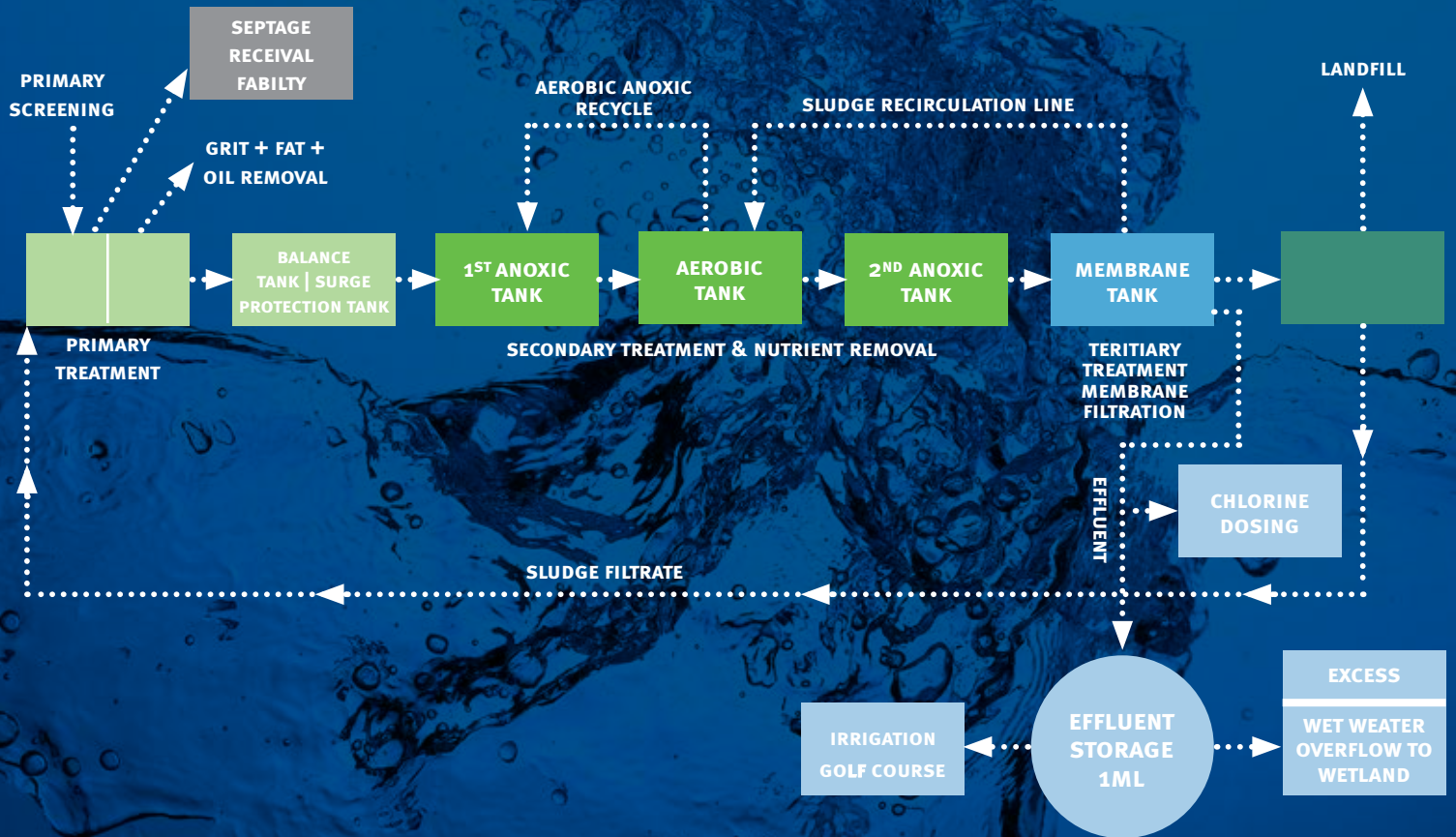
How are other waste products used?

Bio-solids are currently disposed of at landfill while other options are investigated. These include installing a hotrock composting facility for green waste and bio-solids.

How is odour managed at the facility?

Odours from the primary treatment area are controlled through an activated carbon filter.

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Legend

-  PRIMARY TREATMENT
-  SECONDARY TREATMENT & NUTRIENT REMOVAL
-  SLUDGE HANDLING
-  TERTIARY TREATMENT & MEMBRANE FILTRATION
-  TERTIARY TREATED EFFLUENT
-  SEPTAGE RECEIVAL FACILITY

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For more information:
enquiries@townsville.qld.gov.au
www.townsville.qld.gov.au

