

Mackay North Water Recycling Facility



The Mackay North Water Recycling Facility (MNWRF) is located at Bucasia and serves an estimated population of around 20,000 people in the Northern Beaches including the areas of Shoal Point, Bucasia, Rural View, Blacks Beach and Eimeo.

The technology used at the plant has resulted in a significant reduction in nutrients being discharged to waterways like the Great Barrier Reef Marine Park.

The MNWRF operates two sequence batch reactors (SBRs) (processing tanks) to treat the wastewater. The SBRs are aerated

by racks of pipe mounted diffusers as part of the treatment process.

Each SBR runs a four-hour cycle consisting of two hours of aeration, one hour settling and one hour decanting.

Prior to discharge to Reliance Creek the final effluent is filtered through an advanced membrane disk filter and disinfected via ultraviolet light.

Waste activated sludge (WAS) is transferred from the SBRs to aerated digesters during the settling period. Decanting of excess water occurs in the digesters and thickened sludge is delivered to the centrifuge for

final dewatering.

Centrifuge cake is taken by truck to AJK Contracting: Mackay Landscape Supplies, to be turned into nutrient rich compost for local farmers to use on their crops.

For more information phone council on **1300 MACKAY (1300 622 529)** or visit the website mackay.qld.gov.au