



## General Facts - Water Reclamation

Wannon Water has 20 Water Reclamation Plants that treat household, commercial and industrial waste. These facilities include treatment processes such as biofiltration treatment, maturation pond systems and biological treatment.

### Biofiltration Treatment

Biofiltration Treatment includes four stages:

- 1. Primary Sedimentation**, where sludge falls to the bottom.
- 2. Trickling Filters**, that help remove bacteria from the sewage.
- 3. Clarification**, where sludge settles through gravity.
- 4. Sludge Holding Lagoon**, allowing remaining particles to settle to the bottom of the treated effluent.

### Maturation Pond System

The maturation pond system treats sewage with a clarifier, allowing sludge to settle to the bottom. Sewage is treated via trickling filters which help purify the water stream by using a rock bed. Lagoons are then used to aerate and settle the sludge, with the use of UV rays and a maturation lagoon completing the process.

### Biological Treatment

Selector tanks are used to mix sewage with activated sludge, allowing micro-organisms to assist in treating sewage. From selector tanks, sewage flows to Activated Sludge Tanks, which involves aeration and settling periods, enabling sewage solids to settle to the bottom. A decanting process then removes the treated effluent, while the sludge is dried through a belt filter press and then transported for biosolids composting and reuse.



An activated sludge tank at one of Wannon Water's Reclamation Plants

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### AT A GLANCE

#### Water Reclamation

Residential Customers:	37,219
Annual Volume Treated From Customers:	9,405ML
Number of Treatment Plants:	20

IML = One Million Litres