

# ANZ Global Headquarters

## Water Treatment Solution Profile



### Purpose of installation

Situated in Melbourne's Docklands precinct, the new global headquarters for the ANZ Bank incorporates a state-of-the-art wastewater recycling plant to capture, treat and recycle all sewage and grey water generated daily by the building's approximately 6000-strong workforce.

The incorporation of this system has assisted the building gain a 6 star as-built rating, making it one of the first office buildings in Australia to achieve this status.

### Use for treated water

The treatment plant incorporates a split-flow design which treats all water to a quality suitable for toilet flushing.

To maximise the amount of treated water recycled overall – and assist in reducing energy consumption – a reverse osmosis process polishes only the quantity of water required by the building for on-demand cooling tower top-up.

### WJP Solutions' role

WJP Solutions provided engineering design services prior to installing and commissioning the plant which it now maintains. During the design development phase of the project WJP Solutions assisted the design team with the integration of the plant, associated tanks and services into the base building structure.

### Technical specifications

System design capacity - 120,000 litres per day

Principal elements of the treatment process:

- inlet / screening system (Rotary Drum)
- balance tank (in-situ concrete)
- bio-reactor aerobic and anoxic tanks (in-situ concrete)
- membrane operating system (stainless-steel)
- tertiary treatment and dosing systems
- UV system
- chlorine disinfection system
- reverse osmosis
- treated water storage tank/s (in-situ concrete)
- full PLC / SCADA automation system inc. remote monitoring and BA interface
- automated sludge removal system



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