



# Kooragang Industrial Water Scheme



Hunter Water has been a pioneer in the use of recycled water that can be used by industry.



Artist's impression of the Advanced Water Treatment Plant

## Recycled Water for Industry

Hunter Water plans to construct the Kooragang Industrial Water Scheme (KIWS) to provide high quality recycled water to industrial users in the Kooragang area, to substitute the use of drinking water.

Upon completion the KIWS will be the largest recycled water project in the Lower Hunter and the largest scheme of its type in Australia, securing additional water supply to enable critical regional growth.

The KIWS will increase Hunter Water's wastewater recycling rate by 33% to approximately 12% by 2014.

## How will the scheme work?

An Advanced Water Treatment Plant (AWTP) will be constructed at Steel River, Mayfield West and will use membrane micro-filtration and reverse osmosis to produce high quality recycled water.

The scheme will generate 9 million litres of recycled water per day from treated effluent produced at the Shortland Wastewater Treatment Works (WWTW).

A pipeline from Jesmond to Wallsend will also be constructed to divert additional wastewater flows to the Shortland WWTW catchment.

The first stage of the scheme will see recycled water pumped to industry located on Kooragang Island through a dedicated recycled water distribution system.

## What to expect during construction

Work will commence on site at Channel Road Mayfield West in early 2013. In the coming weeks fencing and signage will be installed on the site. Site sheds and construction equipment will also be delivered to the site.

During construction the main impacts that can be expected include

- An increase in traffic to and from the site. This will include workers vehicles and trucks delivering materials and take

excess materials away. Workers vehicles will be parked on the street during construction hours.

- An increase in noise. This will generally be typical construction noise related to the operation of machinery.
- Minor impacts on visual amenity. Those who can see the site will notice a lot of construction related equipment on the site.

A pipeline will also be constructed along Channel Road, Mayfield West. This will involve excavations in parts of the footpath along Channel Road. The pipeline will then cross under the Industrial Highway at Mayfield West and traverse through Stevenson Park. Work on this pipeline is likely to commence in April 2013 and additional information on the pipeline construction will be provided prior to work commencing.

Construction hours will normally be Monday to Friday 7am to 6 pm and 8 am to 1 pm on Saturday. Hunter Water will endeavor to minimise construction related impacts during the life of the project and we will work with local businesses and stakeholders to keep them informed during the project. Adjacent properties will be notified if there are any works that will result in an increase in noise from the site prior to those works commencing.

The AWTP will be constructed by the Hunter Treatment Alliance (HTA), a joint venture between Hunter Water, Abigroup and CH2M Hill.

This project is partially funded through the Australian Government's Water for the Future initiative through the National Urban Water and Desalination Plan program.

## For more information contact Hunter Water

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