

# Liverpool Water Cycle Management Project

## Malabar System Investment Program

Sydney Water is exploring new ways to treat and manage wastewater to meet the needs of growing communities and protect local waterways across Greater Sydney.

The Liverpool Water Cycle Management Project is focused on treating wastewater to a very high standard and safely releasing it to the local waterways.

This approach helps manage wastewater closer to where it is produced, reduces reliance on ocean outfalls, and helps create a more resilient wastewater network as Greater Sydney grows.

### Why this project matters

This project will:

	Increase local wastewater treatment capacity so new homes and communities can be serviced
	Reduce pressure on the Malabar system by releasing a portion of highly treated water to the Georges River
	Improve network reliability during heavy rainfall by reducing system congestion
	Help maintain healthy river conditions, including during dry periods, by releasing clean, highly treated water

### What we're proposing to build

As part of this project, we'll be:

Upgrading treatment processes at Glenfield and Liverpool Water Resource Recovery Facilities

Installing a new pipeline to transfer highly treated water to Georges River

Installing a new pipeline to transfer brine into the existing Malabar wastewater system

Building a new Advanced Water Treatment Plant at Liverpool

This new facility could treat up to **155 megalitres** of wastewater each day through a multi-step treatment process - roughly the same as **60 Olympic-sized swimming pools**. Most of the water would be highly treated before being safely released into Georges River. Potential locations along the river are currently being investigated.

## Environmental assessment and next steps

We're currently investigating land near Kentucky Reserve, Georges Hall as a potential release location. Investigation findings will inform the final alignment, which may change as work progresses.

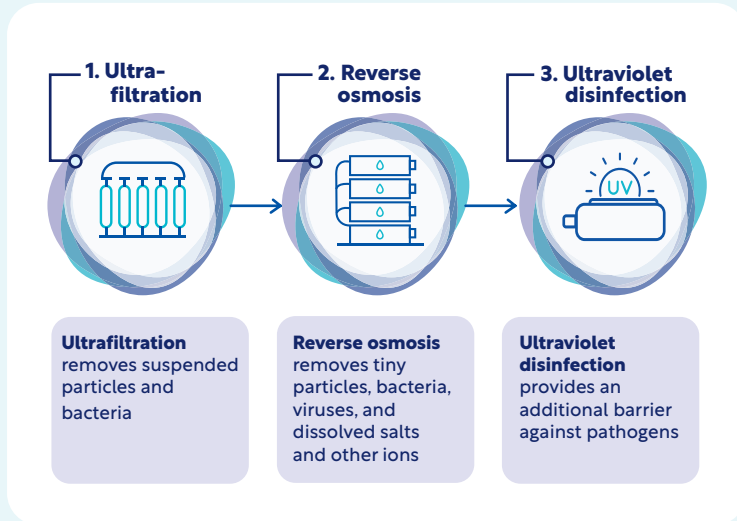
Before work begins, the project will undergo environmental assessment in-line with planning requirements. This will consider potential impacts such as water quality, ecology, heritage, noise, traffic and construction, and outlines how these would be minimised.

The proposal is expected to be publicly displayed in **2027**, giving the community an opportunity to review the information and provide feedback.

## How the water will be treated

Before any water is released to Georges River, it would undergo advanced treatment processes designed to remove impurities and protect river health.

Treatment approaches being investigated include:



These technologies are commonly used in advanced water treatment facilities and can produce very high quality treated water.

A small volume of residual by product (brine) would be managed using existing infrastructure for treatment and disposal.

Protecting the Georges River is central to the project. Sydney Water has completed studies with independent experts and regulators which show that highly treated water can support river health and community use, with ongoing work to ensure we meet strict environmental standards.

## Get in touch

The Liverpool Water Cycle Management Project is part of a coordinated program of upgrades across the Malabar wastewater system to meet current and future demands and improve long term resilience across Greater Sydney.

If you have any questions or would like more information, please contact Sydney Water:

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Sydney Water will continue to share updates with the community as the project progresses.



## Indicative project timeline

