

# Upper South Creek Advanced Water Recycling Centre and Pipelines

**Project update:** April 2023

This project will deliver sustainable wastewater treatment and high-quality recycled water to create a cooler, greener Western Parkland City, with a wide range of benefits for the entire community.

Sydney Water has received approval from the NSW and Commonwealth Governments to build and operate an advanced water recycling centre (AWRC) at Kemps Creek. Information about the environmental assessment and planning approval can be found at [planningportal.nsw.gov.au/major-projects/projects/upper-south-creek-advanced-water-recycling-centre](https://planningportal.nsw.gov.au/major-projects/projects/upper-south-creek-advanced-water-recycling-centre)

The AWRC and associated pipelines will support the population and economic growth of Western Sydney.

Sydney Water has appointed a consortium to deliver the project. John Holland is responsible for design and construction, while GHD and Jacobs are providing engineering and design services. Trility is providing operations and maintenance advice during delivery and will be responsible for operating the AWRC during its first five years.

Site establishment at the AWRC site off Clifton Avenue, Kemps Creek, will begin in the coming months, with pipeline construction starting towards the end of this year. The AWRC is due to be operational in 2026.

## Drop-in community information session

**Saturday 6 May 2023, 10am to 1pm**  
**Bringelly Community Centre, 5 Greendale Rd**

Find out more or ask questions about planning or infrastructure projects in the Aerotropolis.

Representatives include Sydney Water, Penrith and Liverpool councils, Office of the Independent Community Commissioner, Sydney Metro, Office of Strategic Lands, Western Sydney Airport, Western Parkland City Authority, Transport for NSW, Department of Planning and Environment and utilities (Endeavour Energy, Jemena).

## Key benefits for the local community

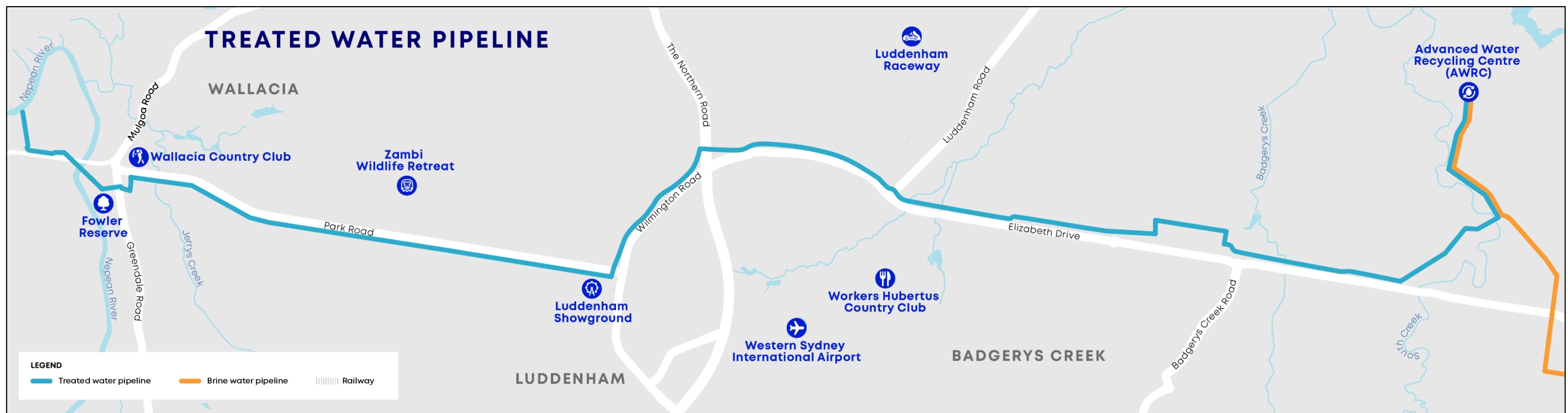
- efficient and cost-effective wastewater services
- producing high-quality, recycled water for a range of potential reuses
- potential to recycle organic waste to generate energy
- protecting local waterways and aquatic ecosystems via environmental flows
- producing biosolids for an alternative to chemical fertilisers in agriculture
- enhancing biodiversity by greening Western Sydney with recycled water
- supporting the vision for the Western Parkland City, to create quality places for the community, keep water resources in the catchment to support greening and reduce heat island effects
- generating renewable energy within the AWRC
- a centre that can respond to changes in demand as our community grows.

## How is the AWRC different to a traditional treatment plant?

The AWRC will be a sophisticated wastewater treatment and resource recovery centre that will produce recycled water, renewable energy and bio-resources. It will use reverse osmosis - the same technology used by the desalination plant - to treat water to a high quality.

The AWRC will collect wastewater from homes and businesses across Western Sydney and treat it to produce high-quality water suitable for a wide range of non-drinking uses in homes, industrial and business use, agriculture and for greening public open spaces.

In time, the AWRC will service homes and businesses across the Aerotropolis and South West Growth Area including parts of Austral, Badgerys Creek, Bringelly, Catherine Field, Kemps Creek, Leppington, Luddenham, Mount Vernon, Oran Park and Rossmore.



### Where will the pipes go?

All our pipes will be under the ground once completed.

A pipeline for treated water will be built from the AWRC at Kemps Creek to the Nepean River at Wallacia. It will be used to help sustain our important river ecosystems that continue to come under significant pressure from extreme weather events.

Another underground pipeline will be built to transfer brine (salty) water from the AWRC at Kemps Creek to Sydney Water's existing wastewater network at Lansdowne. The brine water is a by-product of the reverse osmosis treatment process.

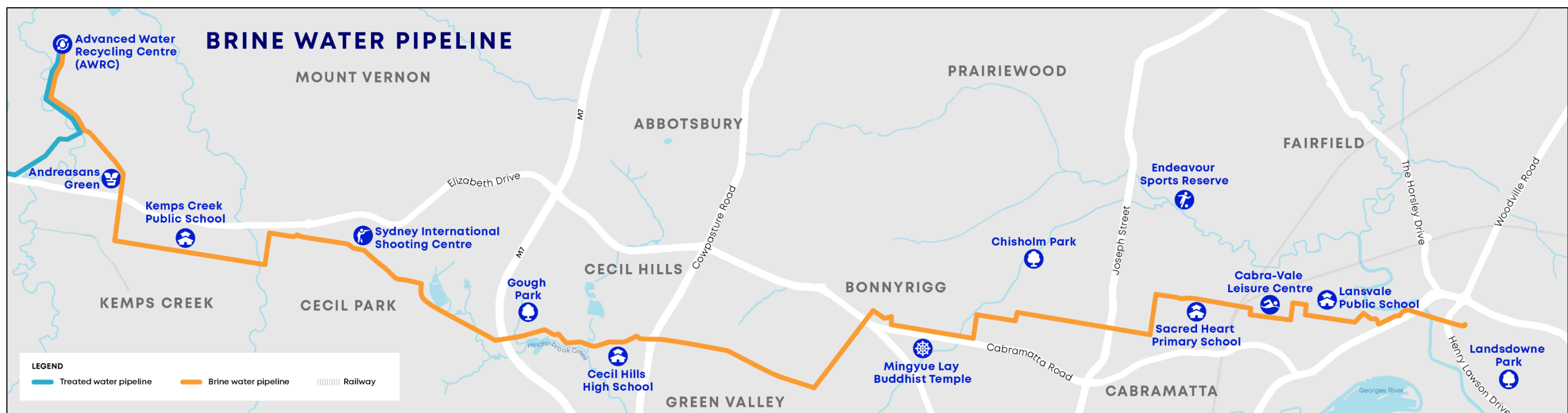
While the two pipelines will mostly be installed under roads and other public spaces, some sections will be built across private property. We have been meeting with affected landowners to explain the construction and property restoration process. If you have any questions, please contact our community team using the details overleaf.

### De-scoping of e-flows pipeline to Warragamba River

The e-flows pipeline was initially planned to secure Sydney's water supply and support waterway health by releasing highly treated water into the Nepean and Hawkesbury Rivers. However, this will now be achieved by releasing the same water via the Treated Water pipeline, removing the need to build the e-flows pipeline.

Descopeing the e-flows pipeline from the project will avoid the environmental and community impacts associated with its construction and operation. This includes potential impacts on some threatened biodiversity and heritage and avoids impacts from construction-related noise and traffic around Wallacia and Warragamba. This substantially reduces the project's capital cost and demonstrates Sydney Water's commitment to our customers, to make every dollar count.

Our application to have the e-flows pipeline removed from the project scope was exhibited by the NSW Department for Planning and Environment from 4 April to 18 April 2023. View the application via the Major Projects planning portal [planningportal.nsw.gov.au/major-projects](https://planningportal.nsw.gov.au/major-projects) by searching for 'Upper South Creek Advanced Water Recycling Centre'.



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