

Bondi Water Resource Recovery Facility

Sydney
WATER

Community update - June 2023



Continuing our work to protect beaches and community

The Bondi Water Resource Recovery Facility (WRRF) works behind the scenes to provide world-class wastewater treatment to protect our beaches and community.

Originally designed to look after a population of 250,000, this facility is now almost 70 years old and serves almost 750,000 people. To ensure we can continue to meet the needs of our community now and into the future, we are upgrading this facility.

We know that our work can sometimes have an impact on our community, and we'd like to thank everyone for their patience and understanding as we upgrade the facility. This newsletter provides an update on our current works.

Update on our current work

Penstock renewal project

Penstocks are boards or gates that allow the plant team to control flow in channels. The plant team often use them to isolate sections for maintenance work and are a crucial part of the operating system at the Bondi WRRF.

We will begin a condition assessment of the Inlet Penstocks and other associated assets within the Bondi WRRF. When condition assessment is complete, we can determine if any of these assets need to be refurbished or replaced.

This work will take place underground and predominantly after hours when we have low levels of wastewater flow in our system. We don't expect this work to have any impacts on the community, however, residents may notice an increase in car movement near the treatment plant after hours.

Bondi WRRF civil and geotech

The Bondi WRRF is largely a series of underground tunnels and caverns, located below the surface, underneath the North Bondi Golf course (William Park) and the Hugh Bamford Reserve. We're currently doing investigation to help us understand the geotechnical condition of the tunnels and caverns. This will then allow us to prepare remediation plans to ensure the long-term safety of the Bondi WRRF and its assets.

We're currently doing a condition assessment of Hugh Bamford Reserve embankment wall, located on the boundary of the facility. This will ensure that we can protect our staff against the risk of rockfalls and retaining wall failure.

Bondi fire detection and emergency warning systems

Currently underway, this project is updating the plants fire detection and emergency systems, ensuring they conform to national standards. This will allow us to continue to provide a safe workplace for all staff and visitors at the Bondi WRRF.

Ben Buckler Stack refurbishment

The Ben Buckler Stack is a heritage listed operating asset that is an important part of the Bondi facility. It provides underground ventilation to our workers as well as, electrical and mechanical systems which ensure the continued daily operation of the facility. We have partially completed a visual assessment of the stack, and more investigations are planned to fully understand the scope of the work. When our assessment is complete, we will look at fast tracking any short term remediation work, whilst long term works are being developed.

Eastern Safe Haven

The Eastern Safe Haven building serves as an evacuation point in the event of an underground emergency at the Bondi WRRF. We have completed an assessment of this site, and are currently finalising our design options.



Busy at work underground at the Bondi WRRF



Our staff are working behind the scenes to ensure our plant is working at its best to continue to protect, staff, environment and community.

Bridge replacement at administration building

The Bondi WRRF administration building has an elevated bridge linking the site to O'Donnell street, to provide easy access to the main above ground facility assets located between the Hugh Bamford Reserve and the North Bondi Golf Club.

Due to its age and condition, we're planning to remove this bridge and replace it with one that will have a similar look and be in the same position. We'll also be reinstalling the security system at the gate at O'Donnell Street.

All major works including the use of heavy machinery to cut and remove the existing bridge will take place within the administration building site. There will be some noise impacts on the community during this time.

This work is scheduled to begin in early July and is expected to take three months to complete. Work hours will be Monday to Friday from 7am to 5pm.

To find out more about projects at Bondi visit [Sydneywatertalk.com.au](https://sydneywatertalk.com.au) or scan this QR code.

Whilst you're there you can also find out about other Sydney Water projects in the area.



Bondi Ocean Outfall Sewer remediation planning project

The Bondi Ocean Outfall Sewer (BOOS) is one of Sydney Water's key sewer systems serving the CBD, the Eastern Suburbs and part of the Inner West suburbs. It is a state heritage listed critical trunk sewer that transports wastewater to the Bondi WRRF.

In 2019 a condition assessment revealed that sections of the BOOS have deteriorated and require rehabilitation.

We'll soon begin a project to provide investigations, analysis, design and construction plans to remediate sections of the BOOS, ensuring this critical asset continues to function reliably. This project is currently being planned, and we will update the community as it progresses.



Inside a section of the BOOS during inspection

Completed works:

Cathodic Protection

Bondi WRRF plant and equipment are predominately located underground. This environment accelerates the rate of corrosion and reduces the service life of infrastructure. Cathodic Protection involves the installation of energised metals that act as 'sacrificial assets' to extend the service life of infrastructure. This project began in 2022 and has now been completed, to improve the life expectancy of critical underground metal assets.

Administration site roof repair completed

Last year we began emergency repairs on the roof structure at the Bondi WRRF administration building. The roof was damaged during a storm, and we began emergency repairs to ensure the site was safe for both staff and visitors. This work has been completed.

Bondi Community Reference Group Formed

We are delighted to announce the formation of the Bondi Community Reference Group (Bondi CRG). This group of community volunteers will work with Sydney Water to provide community feedback during the planning and design of our upgrade projects. They will also help us identify key community issues and understand what information the community wants.

The Bondi CRG is made up of a mix of local residents including representatives of the precinct committees of Bondi Beach, North Bondi and Dover Heights. In addition, we also have representatives from Waverley Council as well as three local Councillors.



If you are experiencing odour issues, let us know

If you're experiencing odour issues you can let us know using a short online form via this QR Code. This is the quickest way to submit your experience and for us to respond.

You can also let us know when there is no odour present. This is valuable information too.

Reporting odour issues

Open the QR Code reader on your smart device.

Hold your device over the QR Code to scan it.

The form should automatically open, or prompt you to click to open the form.



Staying updated – on time, every time and paperless

We're committed to ensuring you're kept informed. If you'd like to receive email notifications about our work, send your details to:

Delivering4Customers@sydneywater.com.au

We take both the privacy and security of your data seriously.

To find out how we use and protect your data, please refer to the *Sydney Water Privacy Policy* on our website.

Or open this QR Code and fill in your details



Did you know that at the Bondi WRRF:

We breakdown wastewater solids into biogas which we can then turn into electricity, we then use this electricity for the daily running of our operation and if we generate excess, we feed it back to the grid. Last year, Bondi produced 7,459 MWh which is equal to a reduction of 5,893 Tonnes of carbon emissions or 2,721 cars removed from our roads.

