



North West Wastewater Connection

November 2024

Sydney Water is delivering a transformative investment to ensure our water, wastewater and stormwater systems meet the needs of our customers now and in the future.

The population in Sydney's north west is expected to double by 2056. Development in the Metro North West Growth Corridor and North West Growth Area has accelerated, so we're delivering the North West Wastewater Connection project as part of a suite of projects to ensure the ongoing reliability and enhance the resilience of wastewater treatment in the region.

What we are building

The North West Wastewater Connection project will connect the pumping station at Taylee Place to the Rouse Hill Water Resource Recovery Facility (WRRF) via a new 800 metre underground pipeline.

The new pipeline will be installed between 12 and 27 metres deep underneath Nunkere Crescent, Kindilen Close, Milford Drive, Bilyana Place and Mile End Road (see map overleaf for further details).

We will also upgrade the pumping station at Taylee Place and install an emergency generator for back-up power supply.

Along with other work in the area, upgrading the pumping station and connecting it to the Rouse Hill WRRF will support the construction of an additional 24,000 dwellings and amplification of the recycled network to service an additional 16,000 dwellings.

We will be appointing a contractor to deliver the project, with early work to start over the coming months, and major construction to start early next year.

Construction

The 800-metre-long pipeline will be built by tunnelling underground with a small tunnel boring machine, to a depth of between 12 and 27 metres.

The tunnel excavation will be around 1.80 metres in diameter with the pipe itself being 1 metre in diameter. The cavities between the pipe and the tunnel edge will be grouted following installation.

We will establish a work site at Lot 96, Hare Place. This will be used for parking, material storage, site offices, amenities and a tunnel boring machine launch pit.

We will need to excavate pits at two additional locations for receipt of the tunnel boring machine. These will be within the Rouse Hill WRRF and at the pumping station at Taylee Place.

The pits will be 8 metres long, and 6 metres wide, with receipt pits between 10 and 15 metres deep and the launch pit about 27 metres deep.

Assessing the impact of our work

A Review of Environmental Factors (REF) and an addendum (REFA) has been prepared to assess the potential impacts of the project on the environment such as noise, traffic, flora and fauna. The REFA can be found on the project website sydneywatertalk.com.au/north-west-wastewater-connection.

The REFA includes a detailed Noise and Vibration report which predicts the possible impacts of the project. It does this by measuring current noise levels at certain locations and considering typical construction activities, including specific machinery to be used, to come up with a worst-case scenario for the local community.

The report also considers project mitigation measures, such as temporary noise barriers, that will reduce noise and vibration while the work is underway.

Once appointed, our delivery partner will undertake a tunnelling and ground impact assessment and develop mitigation measures to ensure they do not exceed allowable noise and vibration levels.



Come and meet the project team

We are hosting two community pop-up sessions at Knox Place Reserve on **Saturday 7 December from 10am to 12pm (midday)** and **Wednesday 11 December from 3:30pm to 5pm** where you can meet the project team and learn more about the project.

Construction work hours

Site investigation work will start later this year. Major construction will start in early 2025 and be completed in 2026.

Our standard working hours are Monday to Friday from 7am to 6pm, and Saturdays from 8am to 1pm.

If we need to work outside of these hours, we will notify the community.

How we manage noise and vibration

We acknowledge that construction work can be disruptive. Once our delivery partner has undertaken their assessment of ground conditions and tunnelling, they will develop a construction management plan. This will include a range of mitigation measures to minimise noise and vibration impact on the community, such as:

- Designing the tunnel and its alignment to minimise impacts to local community.

- Temporary noise barriers installed around construction sites at the pumping station at Taylee Place and Lot 96, Hare Place.
- Alternative construction methods that are less noisy (bored piling instead of impact piling).
- Monitoring noise to ensure compliance with recommended noise levels.
- Where noise levels are predicted to be high, we will communicate with impacted residents to explain the duration and noise levels and what mitigation measures will be in place.
- Monitoring vibration levels for their impact on structures.
- Managing traffic on local roads through a traffic management plan. This will detail specific routes that construction traffic and local traffic would follow throughout the construction phase.

Keeping you informed

We will work with the community to ensure that the impact of noise on residents is as minimal as possible.

We will keep the community informed via regular letterbox updates, door knocks and drop in sessions.

If you have any questions regarding this work, you can call us on **1800 560 682** or send an email to northwestwastewaterconnection@sydneywater.com.au

Other projects supporting Sydney's north west

North West Treatment Hub

The North West Treatment Hub program is underway which will see upgrades at the Rouse Hill, Riverstone and Castle Hill WRRFs.

The North West Hub Alliance is establishing a site compound at 7 Money Close to upgrade capacity at Rouse Hill WRRF and build a new sludge management facility to reduce risk of odours at the site.

In July, we displayed a Review of Environmental Factors Addendum (REFA) to share a change in the design. We have now completed most of the detailed design.

For more information, please visit the project website at sydneywatertalk.com.au/north-west-treatment-hub

Keeping sustainability at the heart of our work

We are working with Taronga Zoo to provide foliage cleared from our site as feedstock for their koala sanctuary.

We are also relocating native orchids that are growing near the Rouse Hill WRRF so they can continue to grow and thrive in our local area. Sustainable management of our natural and built environments is the cornerstone of the way we operate. By identifying alternative uses and locations for our natural resources we can make a meaningful contribution to promoting sustainable practices within the community and across industry.



North West Wastewater Connection map



Rouse Hill wetland renewal: have your say

We're renewing the Rouse Hill wetland, which plays an important role in managing water quality within the storm-water catchment.

Work includes:

- Improving access paths for safer recreation
- Enhancing natural habitats by removing invasive weeds and planting native vegetation
- Improving flood management through stormwater asset renewal.

As the wetland is a popular recreation space for the local community we are keen to hear your views on how you use the area. Please take two minutes to take part in our survey at forms.office.com/r/rcC6NqEaV5 or scan the QR code. To find out more you can contact us at rousehillwetland@sydneywater.com.au or **1800 659 809**.



Interpreter service 13 14 50

Arabic | Chinese (Traditional) | Chinese (Simplified) |
Greek | Korean | Vietnamese

اتصل بالرقم أعلاه إذا كنت بحاجة إلى مترجم

如果您需要口譯員，請撥打上面列出的電話號碼

如果您需要口译员，请拨打上面列出的电话号码

Εάν χρειάζεστε διερμηνέα, καλέστε τον αριθμό που αναφέρεται παραπάνω

통역이 필요한 경우 위에 나열된 번호로 전화하십시오

Nếu bạn cần thông dịch viên, hãy gọi số điện thoại được liệt kê ở trên