Sydney WATER

sydneywater.com.au

Newsletter

March 2025

Securing our water supply

Quakers Hill to Prospect

Greater Sydney relies on rainfall for 85 per cent of its water supply, with the remaining 15 per cent coming from desalination. With over 5 million customers, and an extra 2 million expected by 2050, challenges like climate change, drought and housing growth mean we need more rainfall independent water sources. Combined with dams and desalination, purified recycled water (PRW) could help safeguard our water for future generations.

We're proposing to build a PRW plant at the existing Quakers Hill Water Resource Recovery Facility (WRRF), which will treat water from industry and homes (including from kitchens, showers and toilets) to meet strict Australian Guidelines for Water Recycling. Treatment will include ultrafiltration, reverse osmosis and ultraviolet light disinfection with advanced oxidation. PRW will be added to Prospect Reservoir and be combined with raw water from our dams before being treated again at Prospect Water Filtration Plant.

Project summary

Phase 1	Approval process
Upgrades to the Quakers Hill WRRF Brine pipeline for Quakers Hill	Sydney Water will conduct a Review of Environmental Factors (REF) for the first phase of the project. We aim to publish the REF on our website in September 2025.
Phase 2	**Approval process**
Additional advanced treatment processes to produce PRW Pipeline to transfer PRW to Prospect Reservoir and mix it with raw water from dams at the Water Filtration Plant	In late 2025, you can provide further feedback on this phase of the project via the public exhibition of the Environmental Impact Statement (EIS) by the Department of Planning, Housing and Infrastructure. We'll keep the community informed about how you can provide a submission.

See map overleaf for more details.

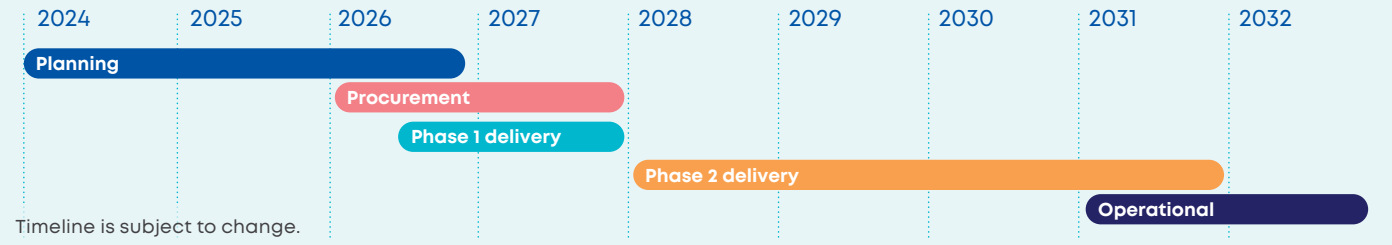
Benefits of PRW

- cost effective, climate resilient water source
- reduced risk of severe water restrictions
- reduced reliance on ocean outfalls
- high quality water using proven technology used in 35+ cities around the world

Construction impacts

- drilling and trenching for pipelines
- additional vehicle movements
- noise, dust and light from construction
- temporary compounds in your local area
- temporary loss of access to walking paths and parks

Timeline



Timeline is subject to change.

Open trench construction

Open trench construction moves quickly by comparison to underground drilling. We can also work on separate sections at different times.

Provided good conditions, work can move between 12 and 24 metres a day.

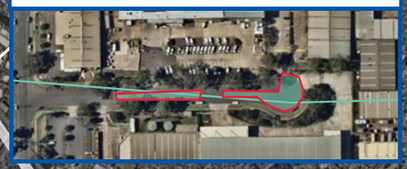
Open trench construction will take place mostly during daylight hours. More detail on construction timing will be available once a delivery contractor is appointed. Site compounds along the PRW pipeline will be progressively established and de-established as our work progresses.

From the Quakers Hill WRRF on Quakers Road until Astral Drive, Doonside, the pipeline will be constructed in the stormwater channel where possible to reduce impacts for private properties and local roads.

From Astral Drive, Doonside through to Prospect Reservoir, the pipeline will be constructed along power line easements where possible to reduce impacts for private properties and local roads.

Site compounds in Harvey Park with HDD compound and pipe stringing in Marayong Park

Gate Road compound



Construction areas and HDD pipe stringing in Lynwood Park and Cavanagh Reserve

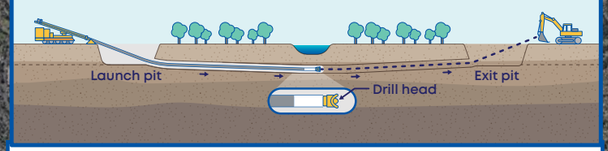
Construction areas near the Aquatic Centre and International Peace Park

We'll work on Flushcombe Road and drill underneath the Great Western Highway and the Western Motorway. We'll string pipe for the HDD along Prospect Highway towards Reconciliation Rise, Pemulwuy. There will also be compounds in the area along the road reserve. Major roads in this area will not be affected.

There will be site compounds near Tallawong Oval in place for 1–2 months. We'll minimise disruptions where possible and schedule work outside of peak season.

We're working to design the most effective way to mix water in the reservoir. PRW would be expected to mix for around 1–3 days depending on the water levels and demand.

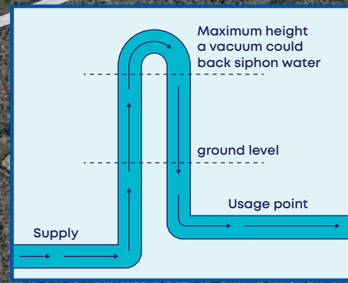
Trenchless construction



We'll use several underground drilling techniques for this project including Horizontal Directional Drilling (HDD). Site compounds for HDD work will be in Harvey Park, Marayong Park, Gate Road (Blacktown), Lynwood Park, the Blacktown Aquatic Centre car park and International Peace Park.

We will be setting up temporary compounds to launch and retrieve the underground drill. HDD construction can avoid impacts, but it does take a lot longer. Pipes also need to be welded together and strung out before being launched underground, which will also require temporary compounds.

Trenchless crossings will be used instead of open trench construction at the railway line near Doonside Crescent, Kildare Road, Bungarribee Road and Reservoir Road.



Barometric loops

These assets ensure consistent water flow by regulating pressure within the pipes. Without them, sections of pipe could drain inconsistently due to changing pressure due to pipe depths.

Legend

- 24/7 work
- Night work
- Open trenching
- Noise from construction
- Dust from construction
- Barometric loop
- Brine pipeline (Phase 1)
- PRW Pipeline (Phase 2)
- Trenchless construction

Quakers Hill WRRF

Blacktown LGA

Parramatta LGA

Cumberland LGA

Prospect Water Filtration Plant

How to use this map

We're committed to helping you understand what the project means for your local area. This map shows the pipeline route and where construction will occur. This alignment has been developed in consultation with key stakeholders to deliver essential infrastructure at a reasonable cost with the least impacts.

As we're still planning the project, detail on every impact is not yet available. The Environmental Impact Statement (EIS), available for public comment in late 2025, will provide more information on the project and its impacts. If the EIS is approved, we'll begin construction planning, and continue community consultation. We may amend the project as it progresses through planning and delivery.

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Who would receive PRW and how?

PRW will be supplied from the Quakers Hill WRRF, mixed with raw water from dams, and then treated at Prospect Water Filtration Plant (WFP), which supplies drinking water to around 80% of Sydney. PRW will initially represent about 2.5% of the water supplied from the Prospect WFP. With more PRW treatment in other locations, it could gradually be increased to provide up to 15% of Sydney's water supply from 2056.

Have your say

Your input can help identify and address concerns for your community. Please complete our feedback survey before 31 May 2025, using the QR code.

Join us online

Our webinars are another way you can find out more about the impacts of the project and speak to us.

- 18:00 – 19:00 Wednesday 26 March 2025
- 12:00 – 13:00 Friday 28 March 2025

Go to **www.sydneywatertalk.com.au/prw** to register.

Face to face

We're hosting several pop-up displays across Sydney. We can also come to your event or meeting to discuss the project. Speak with us to find out more.

Social Impact Assessment (SIA)

Social impacts are the consequences people experience when a new project brings change. The SIA process involves identifying, analysing, monitoring and managing the intended and unintended social consequences, both positive and negative, of planned projects or developments.

The EIS, including the SIA, will be assessed by the Department of Planning, Housing and Infrastructure.

SIA consultants from Umwelt will be inviting residents and local organisations to share their thoughts, ideas, and concerns on the project. This will help to identify and address any potential negative social impacts, as well as how the project can deliver improvements or benefits for the community.

To register your interest, please email:
social-team@umwelt.com.au

Participation in an interview is voluntary and all responses are confidential.

Contact us

Our friendly team are here to answer your questions and gather your feedback for this important project.

1800 172 263
prw@sydneywater.com.au
www.sydneywatertalk.com.au/prw

Interpreter Service 13 14 50

Arabic • Chinese • Greek • Italian • Korean • Vietnamese

إذا كنت تحتاج إلى مترجم، يرجى الاتصال بالرقم أعلاه.

如果您需要傳譯員的協助，請致電以上的號碼。

Αν χρειάζεστε διερμηνέα, τηλεφωνήστε στον παραπάνω αριθμό.

Se vi serve un interprete, telefonate al numero indicato sopra.

통역사가 필요하시면 위의 번호로 전화하십시오.

Nếu quý vị cần thông dịch viên, hãy gọi đến số trên đây.