

North West Treatment Hub

Keeping our waterways clean



We're planning for the future!

Sydney's north west is growing rapidly, with the region's population expected to double by 2056. To enable Sydney Water to adaptively respond to growth, Sydney Water is delivering the North West Treatment Hub Program, which includes a suite of upgrades to cater for growth in the area.

The North West Treatment Hub includes three treatment facilities in the region – Castle Hill, Rouse Hill and Riverstone Water Resource Recovery Facilities (WRRFs). We are upgrading these WRRFs to ensure we can continue to provide an efficient wastewater system to cater for this growth and keep our waterways clean.

Sydney Water has partnered with John Holland, Stantec and KBR to form the North West Hub Alliance (NWHHA).

The NWHHA will deliver upgrades at Riverstone and Rouse Hill WRRFs to support an extra 45 megalitres of wastewater each day. That's equivalent to 18 Olympic sized swimming pools!

High level project benefits:



Growth

Increasing the wastewater systems capacity to accommodate growth in North West Sydney.



Reduce waste

New technology produces a biosolids product that is not odorous and will reduce biosolids output.



Healthier waterways

Improving the environmental performance of these facilities which in turn will support cleaner healthier waterways.



Protect the environment

Improving waterway health, improving odour control, and responding to emerging regulation on biosolids products.

Proposed design changes

In 2022 we publicly displayed a Review of Environmental Factors (REF) outlining our plans, including to build a pipeline.

We had originally planned to build a new pipeline to transfer partially treated wastewater from Castle Hill WRRF to Rouse Hill WRRF, and from Rouse Hill WRRF to Riverstone WRRF for further treatment.

Sydney Water and the NWA have refined these plans and have made some changes to the proposed designs. Most of these won't have a substantial change in how the project impacts the community. One of the key changes is that we are now proposing to use a more efficient process called carbonisation to treat and reuse biosolids (a by-product of the current treatment process) at Riverstone WRRF.

Using this new technology means we won't need to build the new pipeline to connect the Castle Hill, Rouse Hill and Riverstone WRRFs.

This new process is used in many places around the world including Queensland and involves heating biosolids to a high temperature in a controlled process to remove contaminants and produce biochar.

Biochar is a charcoal-like product. The applications of biochar are wide ranging, and as the technology advances, they will continue to diversify.

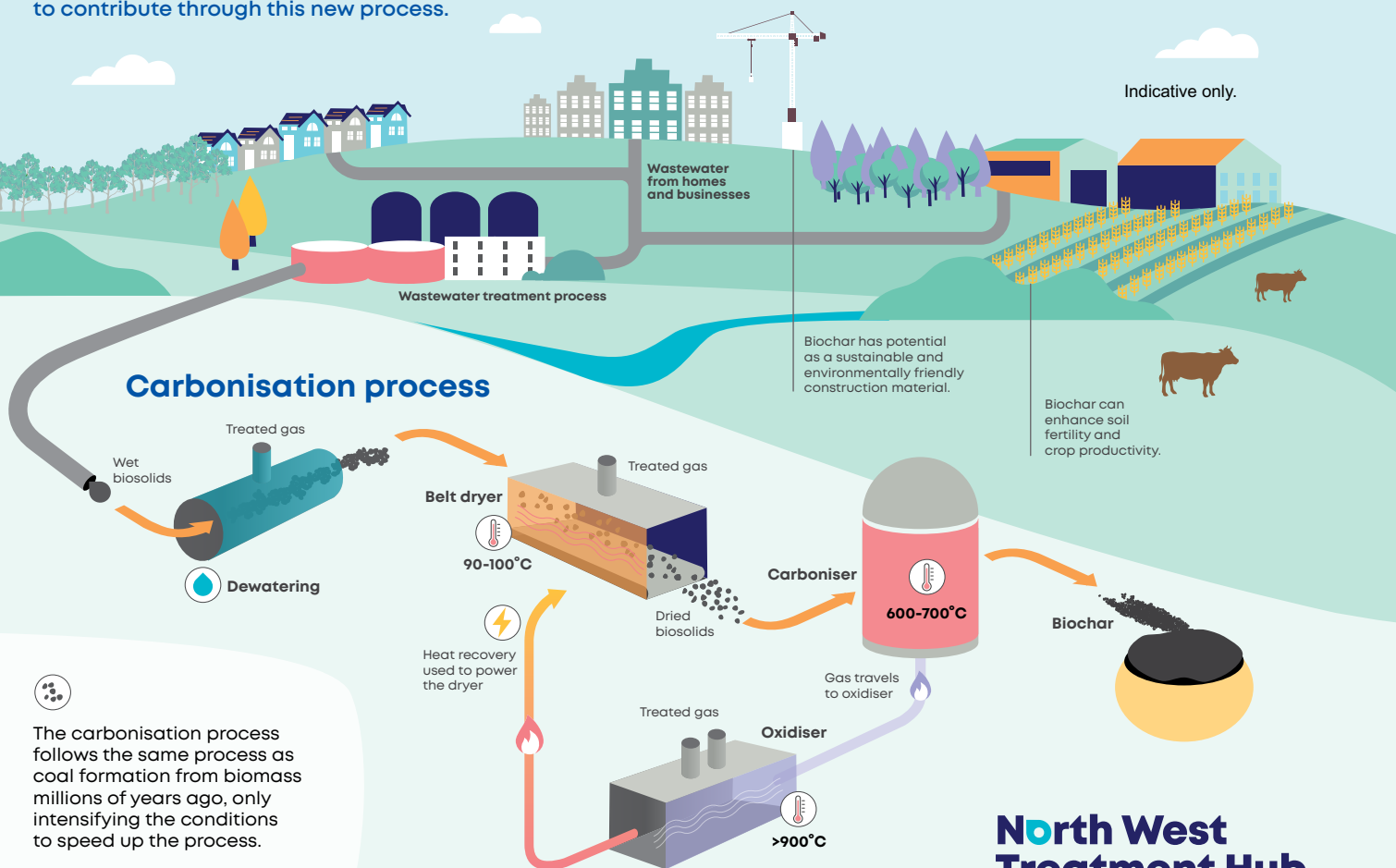
Biochar can be used in the construction, agriculture, horticulture and cropping industries.

To provide the community with more detail on the proposed changes, a Review of Environmental Factors Addendum (REFA) has been prepared and will be on public display from **17 June 2024 until 9 July 2024**.

Other upgrades in the area

In addition to the work NWA is delivering, Sydney Water is also upgrading other facilities at Castle Hill, Rouse Hill and Riverstone WRRF's to increase the volume of wastewater we are able to treat. This work is being completed inside the facility and while we don't expect this work to have significant impacts, you may notice an increase in truck movements during construction periods.

Australia's biochar industry is emerging and Sydney Water is proud to contribute through this new process.



Riverstone

At Riverstone, we are increasing the capacity of the facility to cater for growth in the area.

Work at Riverstone WRRF will include:

- upgrading capacity to treat additional wastewater
- a new carbonisation system
- two new treated gas vent shafts.



Riverstone Water Resource Recovery Facility



Rouse Hill

We are increasing the capacity at Rouse Hill WRRF to cater for growth in the area.

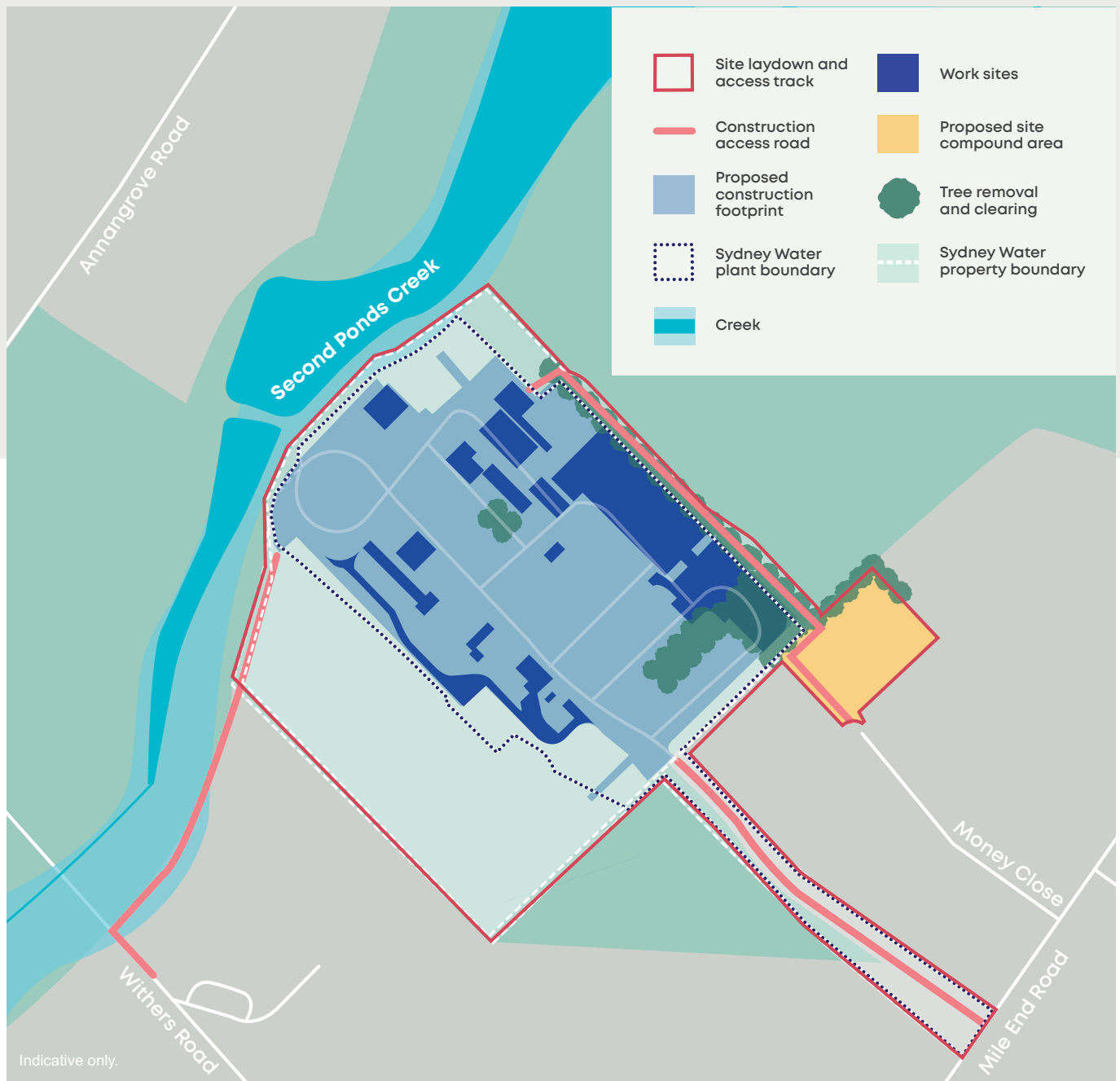
Work at Rouse Hill WRRF will include:

- upgrading capacity to treat more wastewater
- installing a new dewatering facility, which will also reduce the risk of odours from the site
- setting up a construction compound at a site at the end of the cul-de-sac in Money Close, Rouse Hill.

Other work in and around Rouse Hill WRRF

At Rouse Hill, we are also increasing the inlet capacity and upgrading equipment at the facility to help improve water quality, odour and cater for growth in the area. This work has already started, and is being delivered by Fulton Hogan.

Sydney Water is also planning for another project at Rouse Hill called the **North West Wastewater Connection**. This project involves the construction of a new inlet pipe that will transfer flows from the existing pump station at the cul-de-sac of Taylee Place, Rouse Hill to the Rouse Hill WRRF, reducing the risk of wastewater overflows to the environment. We will keep this community informed as our plans progress.



Rouse Hill Water Resource Recovery Facility

Have your say on the updated plans!

You can view and download the REFA online at:
sydneywatertalk.com.au/north-west-treatment-hub

Feedback on the REFA is invited until **9 July 2024**,
If you'd like to make a submission, please email us at:
NorthWestTreatmentHub@sydneywater.com.au



Community Information sessions

If you have any questions about our plans, please come along to our community stall to meet the team.

Attend our online information session:

- Thursday 27 June 2024, 6pm to 7pm

Visit us in person at:

- Carmel Village Shopping Centre, Windsor Rd, Box Hill
- Saturday 29 June, from 10am to 2pm.



Scan the QR code to register
for online information sessions
(via Microsoft Teams)

Other work in and around Castle Hill WRRF

Abergeldie Complex Infrastructure is delivering an upgrade to Castle Hill WRRF on behalf of Sydney Water with work already underway. The upgrade includes:

- replacing and upgrading equipment to improve water quality, odour, and reduce noise
- new facility buildings
- minor extensions to the current fence line
- electrical infrastructure upgrades inside and outside the site
- an additional treated water discharge main to Cattai Creek.

Managing impacts on the community

Working hours for our projects are generally
**7am to 6pm, Monday to Friday and
8am to 1pm Saturdays.**

If we need to work outside these hours we will let you know via a separate notification before the work takes place.

We will minimise impacts as much as possible through active monitoring of noise, dust and vibration, our selection of machinery, consideration of the hours we conduct our high impact activities.

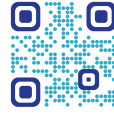


Join our Community Reference Group

We are setting up a Community Reference Group (CRG) to provide a forum for residents, community interest groups, businesses and individuals to learn more about the project and provide feedback.

We're proposing that the CRG meets quarterly, for up to one hour per meeting in the local area. Once the group is established, community members will work together (and with us) to agree on an agenda and meeting schedule.

If you'd like to know more you can contact our team by calling **1800 560 682** or emailing **NorthWestTreatmentHub@sydneywater.com.au**



You can register your interest via the QR code



Want to know more

E NorthWestTreatmentHub@sydneywater.com.au

P **1800 560 682**

W www.sydneywatertalk.com.au/north-west-treatment-hub



Interpreter service

If you need an interpreter, please call **13 14 50**

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

مترجم إلى بحاجة كنت إذا أعلاه بالرقم اتصل

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