

August 2023

## Prospect South to Macarthur Project

Sydney Water has a long-term plan to increase resilience in our network and to extend the city's water capacity and supply.

As part of the Prospect South to Macarthur (ProMac) program, we built a new drinking water pipeline between the Narellan South Reservoir in Mount Annan, and Sugarloaf Pump Station in Menangle Park, completed in 2022.

We have installed a new re-chlorination plant at Narellan South Reservoir in Mount Annan and have completed all major work at the site.

In Currans Hill, we are replacing the reservoir so that it can reliably supply water to the community for decades to come.

We would like to thank you for your support, patience and cooperation while we complete this essential work.

### Completion of Narellan South Re-chlorination Plant

Construction at the Narellan South Reservoir is complete and the new re-chlorination plant will be commissioned into service by the end of 2023. Since our May newsletter, our contractor Ferrycarrig has completed:

- excavation and construction of a new internal access road, retaining wall, drainage, foot path and kerb
- foundations to support the re-chlorination plant
- delivery and crange of the re-chlorination plant, with a total footprint of about 15m long by 7.6m wide by 3.5m high
- construction of an environmentally friendly delivery zone to assist spill management during routine deliveries once the facility is operational
- landscaping

- installation of dosing technology to improve drinking water quality for Sydney Water customers
- fencing and gate installation
- gradual demobilisation of heavy plant and equipment.

Residents may notice personnel and light vehicles at the site for several months while commissioning and minor defect rectification activities take place.

Regeneration of the site is complete and will take up to 10 years to fully establish.



Completed landscaping, internal road, drainage and kerb to enable routine deliveries and maintenance checks by Sydney Water once the re-chlorination plant is operational.

#### What is a re-chlorination plant?

Once operational, the re-chlorination plant will automate dosing and monitoring of chlorine to the adjacent reservoir at the site, to supply reliable and safe drinking water for Sydney Water customers.



The new re-chlorination plant (left), existing Narellan South Reservoir (right) and a new internal access road prior to re-planting.

### Did you know: vibration

Vibration can be felt by humans well before there is any risk of structural damage to residential dwellings. Vibration levels from road and stormwater work have remained well below the threshold required to cause structural damage. Sydney Water has been monitoring vibration output using specialised equipment throughout construction to ensure the work is well below threshold limits.



Completed installation of the re-chlorination plant which is currently being commissioned into operation.

### Did you know: landscape restoration

Plant species selected for restoration at the Narellan South Reservoir are hardy Indigenous and native plants requiring minimal maintenance. A landscape design plan was developed to screen resident's view of the Sydney Water facilities as much as possible.

Occasional mowing will be undertaken by Sydney Water to manage the threat of fire hazards. Selected species include:

#### Trees and shrubs (Eucalyptus):

- Thin-leaved stringybark, Grey Box and Forest Red Gum

#### Understory shrubs:

- Kangaroo Grass, Many-Flowered Mat-Rush, Wallaby Grass and Common Tussock Grass

#### Native grass mix:

- Weeping Grass, Wallaby Grass and Kangaroo Grass

## Thank you Mount Annan community

We thank the Mount Annan community for their ongoing patience while we have carried out ProMac work in the area. The benefit of this work is to provide resilient and safe drinking water supply for residents across South West Sydney.

Commissioning of the re-chlorination plant will be of minimal disruption to the community and the facility will not be noisy once operational. Once commissioning is complete, the re-chlorination plant will receive maintenance visits on a weekly to fortnightly basis.



## Currans Hill Reservoir update



21m of steel panelling welded in-situ to form the new Currans Hill Reservoir, prior to painting. Each individual steel segment weighs 5 tonnes!

Construction of the reservoir walls were completed between May and July. This includes placement and welding of seven steel strakes (rows), fitted to a height of 21m using a crane.

At the beginning of the year, each steel plate was individually transported to site on the back of heavy vehicles. We thank the Currans Hill community for their patience while our traffic control navigated large plant and heavy vehicles through Currans Hill.

Over the next few months, Sydney Water's nominated contractor, Brockman Engineering, will:

- progress with internal and external blasting and painting of the reservoir
- construct a new access stair tower
- undertake hydrostatic testing to ensure the reservoir is leak-free.

## Temporary extended Saturday hours

To utilise optimum weather conditions for painting, the contractor will be working **extended Saturday work hours until 5:00pm** while blasting and painting of the reservoir is carried out over the next few months. We thank the community for their

patience and understanding while we work to ensure construction of the reservoir is completed before summer.

Our standard work hours are 7:00am to 6:00pm Monday to Friday and 8:00am to 1:00pm Saturday. We will not work on Sundays or Public Holidays.

Throughout painting and blasting, you may experience an increase in noise due to high-pressure blasting equipment. Noise from blasting will reduce each afternoon while painting is carried out.

### Did you know: blasting and painting of reservoir panels

- Blasting of the reservoir is critical for removing a temporary coating which is laid during manufacturing.
- This phase of work will be carried out in sections along the interior and exterior of the reservoir.
- High pressure blasting will be done in the morning, and all areas which have been blasted will need to have multiple layers of a permanent protective coating painted by end of day. It will be critical to utilise the sunny weather.

## Heavy vehicles and traffic control

Over the next few months, heavy vehicles will continue to enter and exit the suburb with assistance from traffic control to:

- deliver the reservoir roof sheet
- facilitate removal of redundant equipment
- transport large materials for construction of the reservoir access stair tower
- demobilise a crane from site.



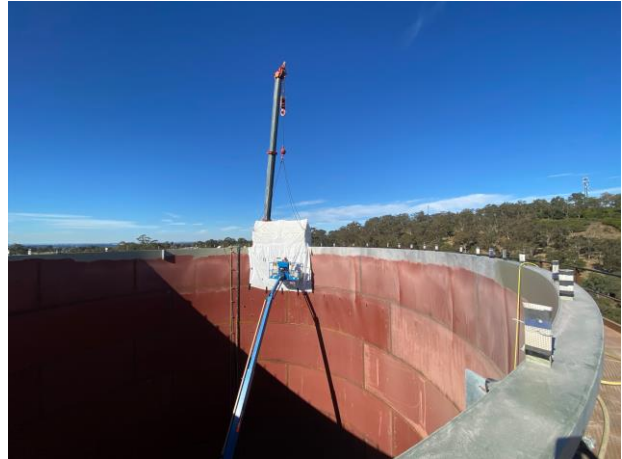


Trucks will continue to follow the route agreed by Camden Council, along **Turner Road (bus-only passage), Ascot Drive and Manooka Road**. Refer to map overleaf for heavy vehicle route. We will continue to aim for heavy vehicle movements outside of peak work and school drop-off hours. This route will be used by large trucks until project completion.

Over the next few weeks, there will be a slight increase in utility vehicles and cars entering and exiting the site in line with the increase of subcontractor personnel on site. There is no set route through Currans Hill for these vehicles.

### Did you know: Sydney Water Industry Partners

Brockman Engineering is one of the oldest reservoir construction companies in Australia, operating nationally across all states for over 100 years. Brockman have brought this experience to rebuild the new Currans Hill Reservoir.



Blasting and painting underway at Currans Hill Reservoir prior to roof installation.

### Thank you Currans Hill community

We will continue to keep the community informed as construction progresses. We apologise for any inconvenience and thank the community for their patience while we complete this essential work.

### To know more about ProMac:

**Call:** 1800 678 098

**Email:** [ProMac@sydneywater.com.au](mailto:ProMac@sydneywater.com.au)

**Visit:** [www.sydneywatertalk.com.au/ProMac](http://www.sydneywatertalk.com.au/ProMac)



Interior view of the new Currans Hill Reservoir in preparation for painting, blasting and installation of the roof.

### 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.





## Currans Hill Reservoir heavy vehicle route

