

Northern Suburbs Ocean Outfall Sewer (NSOOS) Tunnel Works Update Cremorne, Cammeray and Crows Nest November 2022 to January 2023

Community Engagement Representative:

Brendan Elliott

0408 184 222

contact@metrocorp.com.au

Working safely in your area

Sydney Water provides essential services to the community, and we are continuing our work to ensure everything works the way it should.

Site locations – tunnel entry and activities

Specialist contractor Metrocorp Technologies Pty Ltd (Metrocorp) began desilting and rehabilitation work inside the NSOOS tunnel between Cammeray Golf Club and West Street, Crows Nest in August 2019. This package of work also includes desilting activities from West Street, Crows Nest to Russell Street, Wollstonecraft.

Metrocorp's main points of entry to the NSOOS are at Brightmore Reserve, Cammeray Golf Club and ANZAC Park. The compounds are securely fenced, have shade cloth to blend into the landscape and use odour masking sprays when tunnel access lids are opened and closed. In addition, material removed from the sewer is disposed of each workday.

Ventilation sites

Tunnel ventilation sites are at Russell Street, Wollstonecraft; Carlyle Street, Wollstonecraft; West Street, Crows Nest and Primrose Park Tennis Courts, Cremorne. The Carlyle Street and West Street sites also function as emergency evacuation points for workers.

We apologise for any inconvenience for the closure of Carlyle Street to traffic from Milner Crescent (mid-January 2020 onwards) as well as the closure of the inside lane in West Street (early February 2020 onwards). These closures are required until project completion and ensure worker and road user safety.

Project timing and work hours

Wet weather events and unforeseen tunnel conditions that require more complex repairs are the main cause of project delays. Sydney is on track to record its wettest year ever since record keeping began at Observatory Hill in 1858 – more than 160 years ago. Record

amounts of rain in March through to July meant we could not work in the tunnel due to flooding.

The Bureau of Meteorology reported in mid-August the chance of La Nina (above average rainfall conditions) forming on the east coast this spring and summer has increased to around 70 percent. This is roughly three times the normal likelihood of an event forming in any year. As a result of past rain and the unfavourable outlook, ***we now expect to complete this section of work by mid-2023***, weather and tunnel conditions permitting.

Please note our Christmas shutdown will start from close of business on 21 December (Friday), and we will return to work on 16 January (Monday). Sites will be locked, security cameras will remain operational, and random inspections carried out over the holiday period.

Main activities

The five main activities are:

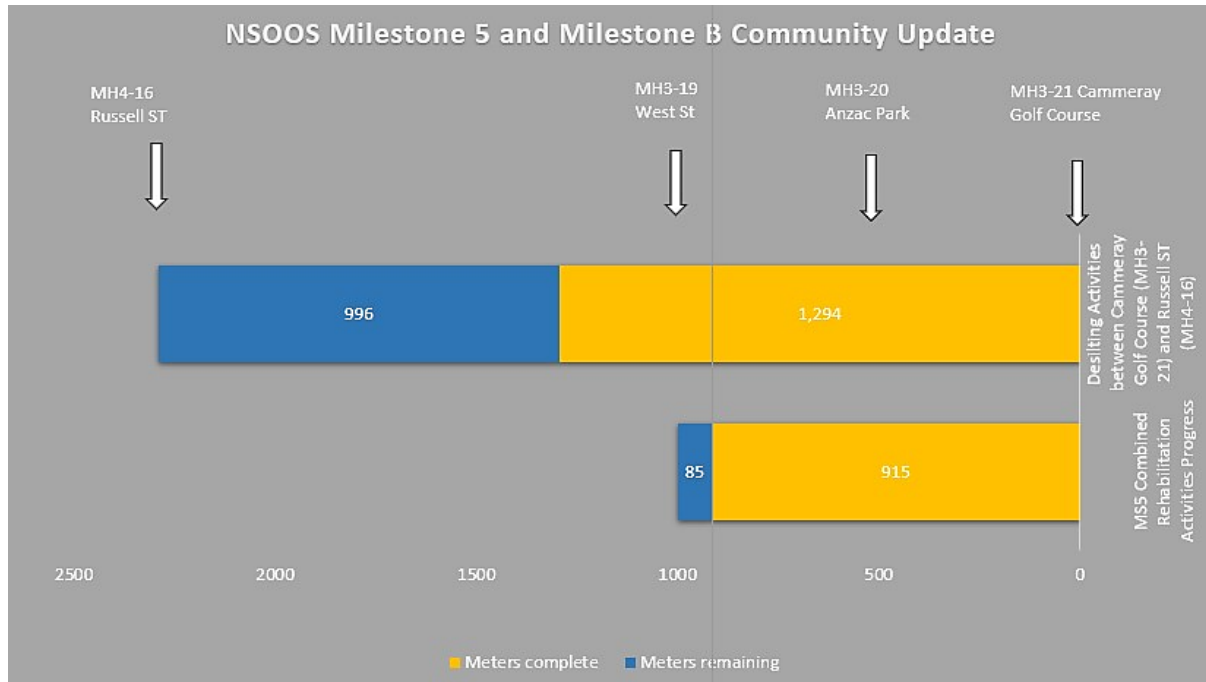
1. Silt and debris removal – silt and debris inside the tunnel is collected and removed using custom-built pontoons and equipment. Waste is dewatered and placed in covered bins before disposal
2. Surface preparation – high pressure water jets and other specialised machinery remove deteriorated concrete and ensure there is a clean and solid surface for further work
3. Concrete arch repair – high strength shotcrete sprayed over stainless-steel mesh restores the structure to its original form. This work can be slow going as it depends on the prevailing conditions and level of repair needed
4. Corrosion protection – a final layer of hard-wearing chemically resistant shotcrete using calcium aluminate cement is sprayed onto the repaired area, creating a durable and smooth finish.
5. Final de-silt – silt is removed a second time before work is completed.

Assembling a new work pontoon. The excavator arm used for surface preparation and debris removal can be seen on the left. The diesel engine is on the right.



Progress overview

The following table summarises our progress rehabilitating the NSOOS upstream from Brightmore Reserve, Cremorne.



Restoration

Once the rehabilitation work is finished, sites will be demobilised and areas restored to pre-construction condition. We will work closely with North Sydney Council to ensure site restoration is in line with Council and community expectations.

ANZAC Park and Cammeray Golf Club Sites

All equipment, machinery, buildings and fences will be removed and the areas revegetated as close as practicable to their pre-construction condition. No permanent Sydney Water above ground structures will remain onsite following the completion of our work.



Swing stage (under angled roof) seen from ANZAC Park and up close. Two workers at a time can use this lift to access the tunnel over 60-metres down.

Project benefits

Our wastewater system works behind the scenes to protect the environment and the health of your community. This work will reduce the risk of wastewater overflows into Sydney Harbour and add a further 50 years to the lifespan of the near century old NSOOS tunnel.

Odour and noise management

We know working inside the tunnel while it continues to operate will result in some odour and noise being experienced by surrounding residents. We are committed to minimising the impact of our work as much as possible.

For odours experienced during work hours, please call 1800 233 076. For odours experienced after hours please call 13 20 90.

Odour



Due to the nature of our work, there is potential for odours to escape from the wastewater network while lids are open. We will have odour controls in place.

Noise



There will be some noisy works due to heavy machinery, including water blasters and generators. Noise blankets may be used as mitigation.

Sydney Water Talk

Sydney Water Talk is an online space where you can have your say and stay updated on Sydney Water projects and plans. Simply scan the QR code opposite with your smart device to learn more about all work occurring on the NSOOS. Alternatively, you can visit the webpage here: <https://www.sydneywatertalk.com.au/nsoos>



Thank you

We appreciate your patience and understanding while we complete this important work. We also aim to be good neighbours and appreciate community feedback.

Warringah Freeway Upgrade

Site establishment work is continuing in the Cammeray golf course. Intersection construction and upgrade works are continuing at Ernest and Merlin Streets, Cammeray. For information and updates, please visit nswroads.work/wfuportal or contact the team on **1800 931 189** or whtbl@transport.nsw.gov.au.