

Grey Lynn wastewater tunnel

Project overview

Grey Lynn and surrounding areas have some of the oldest wastewater pipe networks in Auckland with many, such as the Orakei main sewer, built early last century. As Auckland continues to grow, our networks are under increased pressure. As a result, diluted wastewater overflows into local waterways in the Cox's Bay and Grey Lynn catchments almost every time it rains.

Project overview

The Grey Lynn Tunnel is designed to intercept and divert overflows from local networks in Grey Lynn and the Orakei main sewer. Once completed, the wastewater flows will be transported through the proposed Grey Lynn tunnel via the Central Interceptor to our largest wastewater plant in Mangere for treatment.

The new tunnel will be built deep underground by tunnel boring machine which will minimise disruption along the pipeline route. A construction site will be located at the end of Tawariki Street where we will build a shaft to extract the tunnel machine and divert in the wastewater flows once the tunnel is formed.



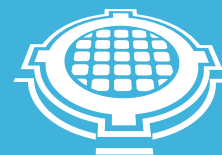
A view from the walkway through Cox's Bay Reserve.

The proposed tunnel will:

- reduce diluted wastewater overflows, resulting in better water quality and surrounding environment
- cater for the growing Auckland population, now and for the next 100 years
- enable future connections and continued improvements to the wastewater system in the area
- be constructed by tunnel boring machine underground to limit effects on residents along the pipeline route
- be 4.5 metres in diameter, large enough for a double decker bus to travel through.

Fast facts

Reducing overflows



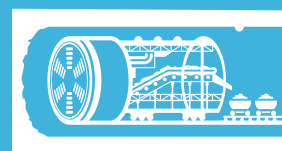
Catering for population growth



Works start in 2023

The tunnel will be built by

Tunnel Boring Machine (TBM)



Tawariki Street site

The works at the Tawariki Street site will commence in 2023. The tunnel will be created by machine deep underground from an existing site at Western Springs. Visible construction will be contained to the Tawariki site where we will create a shaft to extract the machine once tunnelling is complete. The main works at this site will be the shaft construction which is expected to take eight months to complete. Further works will also be required for connection to the local sewers, operational structures, removal of the tunnelling machine, closing the shaft and commissioning the tunnel. The total site occupation for construction could be up to two and a half years.

How could the works affect you?

- construction works for the shaft and related structures will take place on private property and some works in the road at the end of Tawariki Street cul-de-sac
- work hours at the shaft site will be between 7am-6pm Monday to Friday, and 8am-6pm Saturday
- the works will involve up to five truck movements an hour during peak construction, specifically during the creation of the shaft
- there will be some noise and effects from construction, however we will ensure this is kept within Auckland Council consent requirements
- traffic management will be in place to minimise safety risk to road users, the works may at times affect street parking around the site and truck routes.



What happens next?

Resource consent applications for the proposal are due to be lodged with the Auckland Council in early 2019. Decisions made regarding wastewater servicing are important, not just for the current communities but for future generations too. Watercare has undertaken various technical and environmental assessments to inform the resource consent application and designation of the proposed tunnel shaft and site.

Construction is proposed to start at the Tawariki Street shaft site in 2023. The details of the works will be confirmed after the consents are obtained and a contractor is engaged. We will then be able to provide further details on how they intend to do the required work and specific timings.

Keeping you informed

If you would like to receive updates on the project, please contact:



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