

## EPL 21278 - Community agreement summary for upcoming evening and night-time Stage 2 piling

December 2021

Work is underway on James Craig Road to build the entrance to the future M4 tunnels. From February 2022, we will begin bored piling to increase ground strength ahead of the concrete tunnel structure being built. Most of the bored piling will be carried out during standard daytime construction hours.

The project is shortening the overall construction program and duration of daytime bored piling by carrying out some of this work during the evening and night periods between the hours of 6pm to 7am Monday to Friday and, 6pm to 8am Friday to Saturday through a community agreement. Residents who will be impacted by the works were consulted with during the community agreement process in accordance with JHCPB's Environmental Protection Licence (EPL 21278) Conditions L4.11 and E1. Agreement was reached with a substantial majority of impacted residents to allow for the works to proceed out of hours. Further information about the work including a map showing the proposed location of piling, is provided below in "Outline of community agreement construction work". Evening and night-time piling is proposed to start in February 2022 and continue for up to eight weeks.

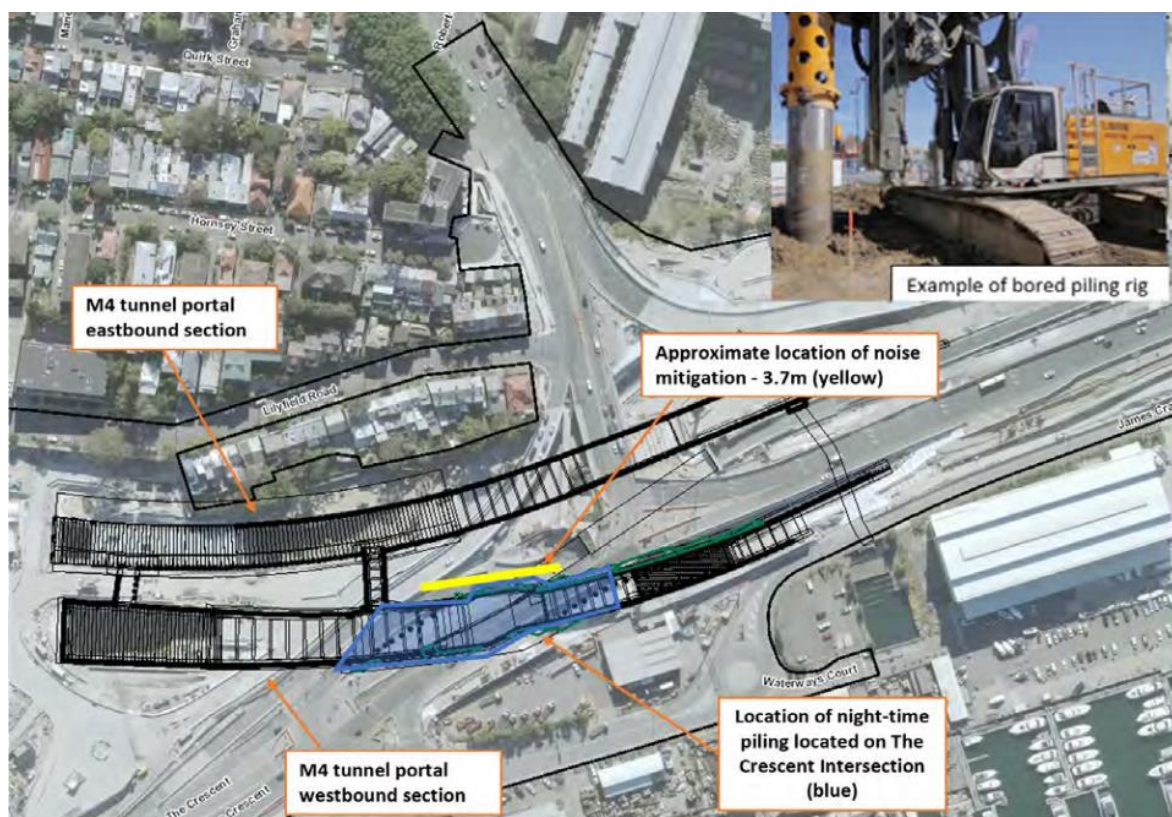
Considerable effort has been made by the project to reduce the noise impact by changing equipment types, using an alternative cleaning method for the piling head where possible (soaking material rather than shaking), optimising acoustic measures around the work area to include engineered noise walls and moving the location of equipment away from residents. We'll only be using one piling rig for this work instead of two rigs, which we have used in previous evening and night-time piling activities.

## Outline of community agreement construction work

Bored piling is a common construction activity used to strengthen the ground prior to structures being built above. The activity involves inserting steel cages into bored holes in the ground, and filling with concrete. Bored piling to construct the walls of the future M4 tunnel entrance will commence February 2022.

This is a quieter method of piling compared to the other alternative 'driven piles' where sheets of steel are hammered into the ground. Bored piling generally creates minimal noise with the noisiest activity being the concrete agitator dispensing concrete into the pile. The piles will be constructed in the area highlighted blue in the map below at The Crescent and Victoria Road intersection. A total of 148 piles are required for this wall with approximately 50 piles proposed to be constructed at night between the hours of 7pm and 6am Monday to Friday and 6pm Friday to 8am Saturdays.

Equipment to be used during the work includes but is not limited to one bored piling rig, concrete agitators, cranes, light vehicles, 14 tonne excavators, concrete pump, lighting towers and hand tools.



### Piling during the evening and night

One piling rig will be operating on The Crescent intersection. Various measures have been taken to reduce noise from evening and night-time piling including:

- using a soil bucket to clean material from the piling head where possible. In this way, there will not be any banging noise as the machines release material.
- constructing 3.7m of noise barrier mitigation on the northern side of the piling pad. This mitigation will also provide noise attenuation for daytime piling activities.
- locating the concrete agitators (required to discharge concrete into the piling cages) behind the Victoria Road Access Road to increase natural noise shielding.

## Other night work

In the weeks prior to, during, and proceeding evening and night-time piling, regular night work will continue on Victoria Road, The Crescent and City West Link and may be heard by residents on Lilyfield Road. Work will continue to be scheduled up to three nights per week (up to two consecutive nights at a time) and up to 10 nights per calendar month, between Mondays and Fridays.

There is currently no out-of-hours work scheduled to take place on Saturday or Sundays during this time.

The project provides a three-month night work lookahead on its construction portal as well as more detailed information in its weekly Wednesday update about confirmed night work activities. If you're not already receiving the weekly email update sent every Wednesday, please subscribe by contacting [info@rozelleinterchange.com.au](mailto:info@rozelleinterchange.com.au)

The below map shows the key evening and night work activities scheduled for the area over the next three months, until February 2021.

**Rozelle, Lilyfield & Annandale | Night work 3 month lookahead | December 2021 - February 2022**  
Notification no. #577

**Summary**

- Annandale, Rozelle, Lilyfield
- 01 December 2021 - 28 February 2022
- Night work
- High noise
- Traffic changes

**Why we do night work?**

- City West Link (CWL), The Crescent & Annandale
- Victoria Road & James Craig Road
- Intelligent transportation systems (ITS), Permanent Restoration & Utility Works - Annandale, Lilyfield & Rozelle
- Equipment and impacts

**Map Legend:**

- Victoria Road & James Craig Road work activity 1: New traffic alignment from December 2021
- Victoria Road & James Craig Road work activity 2: Installation of a tower crane
- Victoria Road & James Craig Road work activity 3: Piling work
- Victoria Road & James Craig Road work activity 4: Throw screen installation
- Victoria Road & James Craig Road work activity 5: preparation works for pedestrian bridge removal
- Victoria Road & James Craig Road work activity 6: General civil and electrical street lighting works
- Victoria Road & James Craig Road work activity 7: Ongoing road construction works
- City West Link and The Crescent work activity 1: Ongoing road construction and realignment work.
- City West Link and The Crescent work activity 2: Installation of bridge elements
- City West Link and The Crescent work activity 3: Pavement construction allowing for future traffic switches to incrementally shift City West Link laterally to the southernmost extent.
- City West Link and The Crescent work activity 4: Johnston Street and the link - drainage installation, service investigation



## The expected impacts

The noisiest activity is expected to be the concrete agitator located on the Crescent discharging concrete into the piling cages. While predicted noise levels from evening and night-time piling are relatively minor and indicate an increase of only a few decibels above current noise levels, the levels are predicted to be higher than we are permitted to generate in this area under our Environmental Protection Licence (EPL).

Noise levels at the external façade of impacted properties from the proposed work are expected to fall between 50dBA similar to a floor fan operating, and 55dBA similar to an air-conditioning unit operating. During the proposed evening and night-time piling, regular day and night-work will continue inside the Rozelle Rail yards, on Victoria Road and City West Link. It is expected that some of these activities will continue to generate high levels of noise, with the proposed evening and night-time piling works being in addition to this.

During the first two weeks we will be carrying out noise monitoring to validate the predicted noise levels.

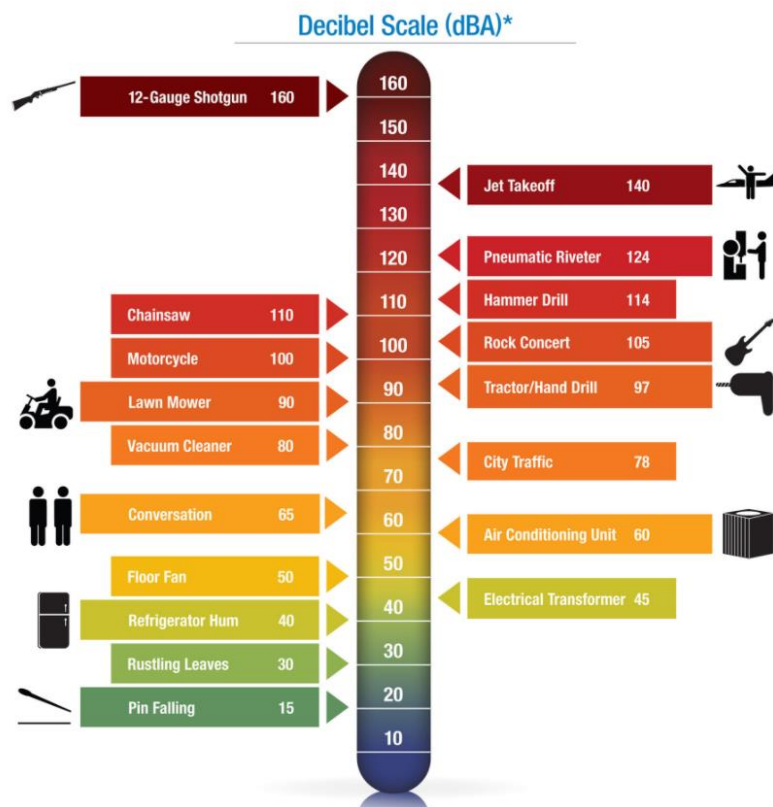


Image from: ACT Deafness Resources Centre 2020