

# Noise, vibration and dust

December 2019

## Bruce Highway Upgrade – Cooroy to Curra Section D: Woondum to Curra

The Bruce Highway Upgrade – Cooroy to Curra project involves a 62km upgrade and realignment of the Bruce Highway. Section D: Woondum to Curra (C2CD) is the final section to be constructed and will provide a new 26km upgrade and realignment of the highway between Woondum and Curra. Including interchange works and tie-ins to existing roads means 30km of new highway will be constructed for C2CD.

Environmental management has played a significant role in the planning and design stages of the C2CD project. During construction, environmental issues, such as noise, vibration and dust, are managed through a detailed Environmental Management Plan.

### Noise post construction

An operational noise assessment was undertaken in compliance with TMR's Transport Noise Management Code of Practice Volume 1 – Road Traffic Noise (available on the TMR website: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)). The assessment forecast noise levels once construction is complete and 10 years post construction to predict noise levels after the new highway is trafficked.

The noise assessment identified that a small number of dwellings adjacent to the new highway are predicted to experience road traffic noise levels above the criterion levels listed in TMR's Code of Practice. The results of this assessment also informed the noise abatement solutions to be implemented to reduce impacts to nearby residents.

The C2CD project team has met with all affected property owners to discuss noise mitigation treatments.

TMR will undertake another noise assessment once the new highway is open to traffic. This will confirm if the noise assessment accurately predicted the road traffic noise levels.

### Noise during construction

Noise management measures implemented during construction of C2CD will include:

- careful planning of activities inside and outside of standard working hours
- ongoing community consultation regarding high noise and vibration generating activities
- other specific noise and vibration mitigation measures as identified in the Transport Noise Management Code of Practice: Volume 2 – Construction Noise and Vibration.



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Dust suppression using large water trucks on open earthworks.



The operational noise assessment involved placing free standing noise monitoring devices (and sometimes a weather station) at identified properties for several days.

## Vibration

Bridge construction for the C2CD project will include bored piling for all 43 bridges. Bored piling involves the use of a vibrating hammer to drive a permanent steel lining into the ground for the bridge piles (columns). Vibration monitoring will be undertaken during works and strategies will be put in place to manage any impacts to adjacent properties. Property condition surveys will be undertaken where required.

## Dust

Dust emissions will be minimised by:

- use of water carts to wet down haul roads and disturbed surfaces
- retaining existing vegetation where possible
- use of temporary soil polymers for application to the surface of areas that have a high risk of dust creation
- covering loads when transporting material where possible.

The C2CD project team will maintain contact with residents who live in proximity to the highway upgrade throughout construction and will notify nearby residents in advance of upcoming works.

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## Contact details

**Phone:** 1800 180 566\* (this number is directed to a project officer in Gympie)

\*Free call anywhere in Australia, call charges apply for calls from mobile phones and pay phones.

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