

FACT SHEET

Noise and Vibration Impact Assessment



ABOUT THE REPORT

Consultant: Cardno

Aim: Determine the predicted construction and operational noise impacts associated with the project.

ASSESSMENT APPROACH

Noise modelling was carried out to determine whether the proposed upgrade works for the Tripoli Way Extension are likely to result in appropriate noise criteria adopted in accordance with the NSW Department of Roads & Maritime Services (RMS) requirements. The assessment considered the following impacts on nearby noise sensitive receivers:

- Potential impacts from road traffic noise as a result of the upgrade in accordance with the NSW Road Noise Policy 2011, and associated RMS Noise Criteria, Noise Modelling Validation and Noise Mitigation Guidelines.
- Noise impacts from construction of the project in accordance with NSW Department of Environment, Climate Change & Water (now Department of Environment, Energy and Science) and the RMS guidelines for the control of construction noise impacts.
- Potential construction vibration impacts from the project in accordance with NSW Department of Environment & Conservation, and RMS guidelines for assessing vibration.

REPORT FINDINGS

A Noise Impact Assessment determined that construction noises and vibrations will impact nearby residential receivers. A Construction Noise and Vibration Management Plan will be implemented during construction, which will include specific mitigation measures.

The assessment also found that operational noise is expected to impact nearby residents. Council will undertake an analysis of noise wall sections for some affected properties to determine the noise mitigation measures to be adopted. This may include noise barriers and/or on-property treatments where appropriate, and will be confirmed during the detailed design.

LEARN MORE

A detailed assessment of Noise and Vibration impacts is contained in **Section 6.9 of the EIS**.



What is an Environmental Impact Statement?



The EIS identifies and assesses the environmental and social impacts associated with the proposed construction and operation of Tripoli Way, as well as proposing measures to minimise and manage them. The EIS was prepared by SLR Consulting who engaged specialist consultants.

Planning approvals and EIS



The EIS was prepared in accordance with the Secretary's Environmental Assessment Requirements (SEARs). The SEARs identifies matters that must be addressed in the EIS and therefore guides its development. A series of technical studies and reports to assess potential impacts are completed as part of the EIS.

Can I provide feedback?



Submissions are invited during the public exhibition stage of the Tripoli Way Extension. All submissions will be submitted to the Department of Planning, Housing, and Infrastructure (DPHI). To find out more visit the Tripoli Way Extension Project page on Let's Chat.

POTENTIAL IMPACTS AND MITIGATION MEASURES THAT WILL BE APPLIED

Impact

Environmental Safeguard

Road Traffic Noise

- Development of an operational Noise and Vibration Management Plan.
- Options for mitigation include road surface treatments, acoustic barriers, and at-property treatments.
- An assessment is being undertaken to determine required acoustic attenuation treatments.

Construction Noise Impacts

- Development of Construction Noise and Vibration Management Plan.
- Implementation of reasonable and feasible site-specific mitigation measures in consultation with residents.
- Use of noise attenuation controls at source.
- Locating static sources of noise as far as possible from noise sensitive receivers.
- Allowing construction to occur only during approved construction hours, unless otherwise necessary for road safety reasons.
- Informing potentially affected receivers with adequate notice of construction activities that may exceed noise or vibration targets.
- Conducting noise monitoring during operations for the purposes of assisting in noise mitigation and to verify the findings of this noise assessment.
- Use of temporary noise barriers where practical.
- Targeting the number of plant operating at one time where works are required to be carried out outside of standard hours.

Construction Noise Impacts

- Avoid use of broadband reversing alarms, or “quackers”, on mobile equipment in accordance with the relevant health and safety regulations.
- Modification of work activities where noise or vibration is found to cause unacceptable impact.
- Implementation of complaints procedure to ensure all complaints are registered and dealt with appropriately.

Construction Vibration Impacts

- The Construction Vibration Management Plan within the CEMP shall set out the management methodology and monitoring procedures.