

Wanneroo Road and Joondalup Drive Interchange

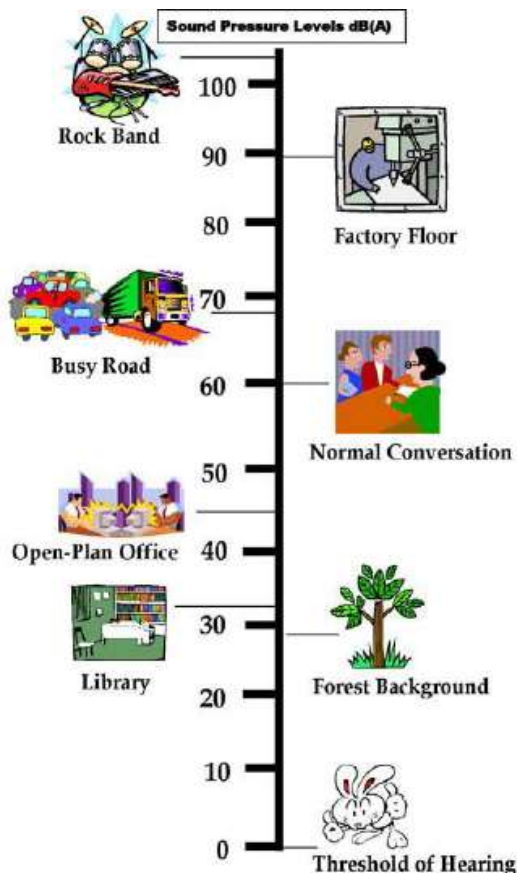
Fact sheet – Noise and vibration

Main Roads is working with CPB Contractors to design and construct the Wanneroo Road and Joondalup Drive Interchange project, which will reduce congestion and improve safety at a busy intersection.

Introduction to noise and vibration

Noise and vibration are experienced during most road construction activities. The perception and sensitivities to noise and vibration can vary from person to person.

The diagram below indicates the general levels of noise of various activities. Noise is measured using the decibel scale – dB.



Managing noise and vibration

The level of noise and vibration will vary during construction, depending on the equipment being used.

A Noise and Vibration Management Plan has been developed that addresses appropriate levels of noise and vibration and stipulates the time of day it is allowed to be generated.

During construction, local residents living in close proximity to the works may feel vibrations for short periods of time. However, the structural impacts on properties resulting from this type of activity is typically very low.

The levels of noise and vibration will also vary as works will be undertaken at different times in a number of locations spreading across the work area.



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Monitoring noise and vibration

Regular monitoring is undertaken to understand and manage the effects of noise and vibration on the community close to the work area.

It is performed to comply with legal and contractual requirements, which will identify potential non-compliances before they occur.

The Wanneroo Road and Joondalup Drive Interchange Project Noise and Vibration Management Plan outlines numerous strategies to ensure noise and vibrations have minimal impacts on the community, including:

- Daily check of the condition of plant equipment
- Weekly check of the condition of vehicles
- Setting baseline measurements before works commence
- Pre-condition surveys of properties within 100m of work area

Reducing noise and vibration

There are numerous controls undertaken on site to minimise the impact of noise and vibration on the community. These include:

- Equipment used is to be the quietest reasonably available
- Fixed plant equipment faces away from properties
- Mobile equipment is not to be left idling
- If project specified vibration limits are exceeded the construction method is to be modified to reduce vibration
- Construction activities to be undertaken in line with Australian Standards
- All equipment is maintained and serviced accordingly



Out of hours work

The majority of works will be undertaken during normal daytime construction hours of 7am to 7pm Monday to Saturday.

There will be times however, that out of hours work will be required to complete parts of the job. This may be due to safety, traffic volumes or space requirements.

Before these works commence, approval must be sought from the relevant Local Government Authorities and the community will be notified. Information will also be available on the Main Roads website.

For more information

To register for electronic updates, please visit our website at <https://project.mainroads.wa.gov.au/home/> or email us at enquiries@mainroads.wa.gov.au or call 138 138.



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