MANAGING NOISE AND VIBRATION

We’re upgrading Plenty Road to get you home safer and sooner

We’ll add a lane in each direction and upgrade 12 intersections between Bush Boulevard and Bridge Inn Road.

For Stage 2 of the project we will:

• widen Plenty Road from 4 to 6 lanes between Bush Boulevard and Riverdale Boulevard
• widen Plenty Road from 2 to 4 lanes between Riverdale Boulevard and Bridge Inn Road
• upgrade 12 intersections including Bridge Inn Road, Waterview Drive and Francesca Drive
• improve cycling and walking facilities.

Measuring noise and vibration

Heavy machinery such as excavators, trucks and rock breakers will generate varying levels of vibration.

Prior to works commencing, qualified acoustic consultants have undertaken extensive assessments of the predicted noise and vibration impacts to nearby homes and businesses. This allows us to determine appropriate mitigation strategies to minimise any impacts.

During construction we’ll continue monitoring noise and vibration. This will help us take action if noise and vibration as a result of construction exceeds acceptable levels.

Our Construction noise and vibration management plan will:

• outline construction activities and the potential noise and vibration impacts
• identify which construction activities and equipment will require noise and vibration mitigation measures
• identify people and places that are particularly sensitive to noise and vibration
• ensure we work with residents and businesses to help them manage during construction
• provide guidelines to working hours and the way we communicate with residents and businesses.
Managing impacts from noise and vibration

This is how we’ll be minimising noise and vibration during construction:

At the site we will:
- store construction equipment appropriately
- fit equipment with silencers
- add acoustic enclosures and hoarding around the construction site and equipment
- turn equipment off when not in use
- fit smart alarms to vehicles that are quieter than standard reversing alarms
- train staff in noise reducing behaviours.

Other controls include:
- placing mobile noise curtains around equipment
- placing noise reducing structures around residents’ windows
- programming works at appropriate times in consultation with key stakeholders
- reviewing construction methodologies to minimise impacts as much as possible
- monitoring noise and vibration levels and applying additional controls where required.

Noise and vibration monitoring

Noise and vibration monitoring will be happening throughout the life of the project. This will make sure we comply with industry standards.

This monitoring provides valuable data aimed at refining construction methods to minimise impacts or to differentiate between construction sources and other sources such as road traffic.

Noise and vibration monitors will be installed at sensitive locations to ensure noise and vibration impacts are managed in accordance with guidelines. These monitors measure and report noise and vibration to ensure we are alerted when there is a risk of exceeding levels. This helps us to apply measures to minimise noise.

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