

21.16 NOISE AND VIBRATION

Prior to Construction

- Noise and vibration to the surrounding sites will be taken into consideration at all times during the construction period. North Construction & Building will make all practical efforts to comply with the requirements of the Protection of Environment Operations Act, and the Office of Environment & Heritage level guidelines. Where the Office of Environment & Heritage levels are, or are likely to be exceeded, we will apply a practical and economical combination of noise control measures to manage the impacts of construction noise in consultation with, and in accordance with, the requirements stipulated by the Office of Environment & Heritage.
- Where possible, construction work involving noise and vibration will be restricted to normal working hours as per section 3.4. Work undertaken outside these hours shall only occur if there is an emergency situation or if approved in writing. Potentially affected residents will be advised prior to the works being undertaken. Generally Work will not be permitted on Sundays and Public holidays. (delete if not applicable for project)
- Machinery and equipment will be well maintained to assist in minimising noise levels.
- Arrange the work site to take advantage of natural barriers (e.g. hills, trees) and structures or temporary screening (e.g. fences, work trucks, stockpiles) to break the line of sight between working equipment and sensitive receivers. (delete if not applicable for project)
- All relevant personnel shall be informed as to the requirements Noise with regard to the Protection of the Environment Operations Act. The requirements of the Act shall be complied with.

During Construction

Operational controls will include methods such as:

- Using quieter equipment/practices;
- Providing respite periods from continually noisy activities;
- Notifying residents of scheduled noisy activities;
- Informing contractors and workforce of noise sensitive neighbours;
- Using barriers, shelters and onsite building to shield neighbours from construction noise
- Avoid where possible early morning deliveries. (delete if not applicable for project)
- All plant and equipment used on the Project must, in addition to other requirements, be:
 - o fitted with properly maintained noise suppression devices in line with the manufacturer's recommendations;
 - o maintained in an efficient condition; and
 - o Operated in a proper and efficient manner.
 - o Higher impact activities (e.g. loading and unloading) will be sited at the greatest distance from sensitive receivers.
 - o Equipment and machinery will not be left idling for excessive periods, where practical.
- Where required,
 - o Noisy activities will occur in as short a time period as possible with minimum delays.
 - o Restrict raised voices and radios/music, particularly in the early hours of the morning;
 - o Identify any practicable measure to reduce construction noise impacting on the closest residences (including scheduling noisy activities at less sensitive times of the day; school holiday periods etc).
- If noise complaints are received from the adjoining residents, control measures will be reviewed and actioned based on the type and nature of the complaint. If any noise complaints are received they are to be recorded by the Project Manager/Site Foreman & relayed to North Construction's Systems Manager and the Clients representative.
- If initial site assessment indicates unacceptable vibration levels, alternative plant or methods are to be proposed that will generate lower vibration. (delete if not applicable for project)
 - o Where vibration levels are expected to be high a dilapidation survey shall be carried out on the existing roads by an independent specialist consultant. Photos will be taken prior to the commencement of the works. (delete if not applicable for project)

- o Consider noise impact from the development at the nearest residential boundary in accordance with the Office of Environment & Heritage Industrial Noise Policy or Relevant Guidelines. (delete if not applicable for project)