

NSBT Project Construction EMP November EMP Report

This document reports on performance against the construction environmental management plan ("EMP") for the NSBT project in November 2006. This report also considers complaints received and how those complaints have been addressed. LBB manages the receipt and tracking of complaints/issues using a formal computer based tracking system. A 24-hour toll-free contact telephone number operates to respond to complaints, concerns or enquiries from the general public. Some complaints are received via the community relations email address, in which case if no telephone or mailing address details are provided, responses are provided electronically.

LBB assigns a dedicated person to each of the following four main worksites to follow-up on complaints:

- South-East Freeway including Ipswich Road.
- Gibbon Street, Woolloongabba;
- Shafston Avenue, Kangaroo Point;
- O'Connell Terrace, Bowen Hills;

This report comprises three sections:

- 1.0 Noise Monitoring
- 2.0 Vibration Monitoring.
- 3.0 Complaints

1. NOISE MONITORING

The following main noise mitigation strategies were implemented in the period:

- limit working hours to between 6:30am and 6:30pm Monday to Saturday;
- provide acoustic walls at Shafston Avenue and Gibbon Street sites for the shaft sinking operations;
- provide acoustic enclosure at Shafston Avenue;
- provide low noise reversing alarms to reduce impact on resident amenity.

LBB has established continuous monitoring stations near each of the four main work sites located external to buildings at the addresses in the table below.

Worksite	Location of Monitoring	Average Levels in November
Gibbon Street	19 Gibbon Street	60
Shafston Avenue	40 Connor Street	70
O'Connell Terrace	8 Tufon Street	59
South East Freeway	3 Abingdon Street	59

The target for daytime noise level measured externally to a building is 60 dbA after applying a 5dbA correction to the EMP goal of 55dbA which is based on measuring internal to a building.

The exceedance of some 10dbA at the Shafston Avenue site confirmed the predicted level however while it does give cause for concern it did not give rise to any specific complaints, the only noise complaints received being related solely to out of hours work. The work activity which caused the exceedance at Shafston Avenue was rock drilling in the shaft preparatory to blasting. The nature of this activity is intermittent and has been reduced as far as practicable and it will be closely monitored with adjacent residents until it ceases late February.

2. VIBRATION MONITORING

Some 30 controlled blasts were carried out during the month of November. There were 7 instances where monitoring results were above the vibration targets established for the project. It was determined that the cause of a small number of anomalous readings was a transition layer of altered material approximately 3m below the surface. The excavation has now progressed below this layer and all blast results are generally behaving as predicted. There was no damage caused by these minor exceedances.

Two complaints were recorded regarding blasting at O'Connell Terrace however in each case, the measured vibration level was less than the EMP target and the persons were satisfied that no damage has been caused and also have a better understanding of how the impact of blasting is measured.

3. COMPLAINTS

In the period to 30 November a total of 21 complaints/issues were raised. Complaints about dust and noise were the most prevalent as evidenced in the following table which shows the number and nature of the complaints/issues at each worksite.

Nature of Complaint	SE Freeway	Gibbon	Shafston	O'Connell Terrace	Total
Dust	2	2	0	1	5
Noise	2	0	2	0	4
Traffic	3	0	0	2	5
Vibration	0	0	0	2	2
Property (access, security, damage)	4	0	0	0	4
Other	0	0	0	1	1
Total	11	2	2	6	21

Key mitigation measures implemented following these complaints included:

- additional dust mitigation through the use of additional hosing, sealing agents and use of a water truck.
- reinforced with truck drivers that all trucks are to be washed down, covered where necessary, exit the site over a 'rumble pad' to shake off excess dirt and then use the prescribed haulage route.
- reinforced with subcontractors that they must not commence work before 6.30am
- reinforced with subcontractors that their activities must not restrict access to properties unless prior temporary arrangements are made with the owner/resident
- improved sightlines for both pedestrians and cyclists along a bike detour
- erection of temporary hoardings and fencing adjacent to works
- provided further information to residents in relation to blasting and maintained close contact with the stakeholders during subsequent blasts