


MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

Project:	Chatswood to Sydenham SSI-7400		
For period:	February 2023	Authorisation:	
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Introduction

EMM Consulting Pty Limited (EMM) presents the February 2023 AA Noise and Vibration Report for the Sydney Metro City and Southwest project as required by SSI 15_7400 A27 (g) vi.

A reference table for the acronyms used in this report is provided on the last page.

Acoustics Advisor Activity

- Review and/or endorsement of:
 - Barangaroo NVMR April to September 2022;
 - CNISD CNVMP Rev 5;
 - LWW CMR March to August 2022 Rev 2;
 - PSISD CEMP Rev 3;
 - PSISD CMR Q4 2022 Rev 1;
 - PSISD CNVIS Rev 17.1; and
 - PSISD CTR Q3/Q4.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - Barangaroo OOHWA 13 Rev 1;
 - Barangaroo OOHWA 15 Pedestrian Ramps;
 - CNISD OOHWA 27 Clarke Street service investigations;
 - CNISD OOHWA 28 delivery of PCBs;
 - LWW OOHWA 275 Chatswood Dive sewer and water connection works;
 - PSISD OOHWA 50 Jan to March 2023 Rev 9;
 - PSISD OOHWA 53 PSN façade installation Rev 5;
 - WISD OOHWA 46 Botany Hydrant Works Rev 01;
 - WISD OOHWA 47 Lighting Install Rev 02; and
 - WISD OOHWA 51 March, April, May 2023 (Utilities) Rev C.
- Attendance at ongoing meetings with CNISD, VCISD, Barangaroo Station, LWW, PSISD, MPISD, CSM and WISD contractors.

Inspections, audits and site visits

The following was completed:

- CSM inspection with ER on 1 February 2023;
- MPISD inspection with ER on 3 February 2023;

- PSISD inspection with ER on 7 February 2023;
- CNISD inspection with ER on 8 February 2023;
- WISD inspection with ER on 9 February 2023;
- CNISD inspection with ER on 22 February 2023;
- CSM inspection with ER on 22 February 2023; and
- Barangaroo inspection with ER on 23 February 2023.

Monitoring status

Real-time noise and vibration monitoring (with real-time access) is ongoing at CNISD, VCISD (noise only), Barangaroo, PSISD (noise only), MPISD and CSM.

The WISD Contractor is operating real-time noise monitors to assist with site noise management. This is not a requirement of their CNVMP and is optional only. We have access to this data on an as-needs basis only (eg when complaints are received).

Noise and vibration complaints

Complaints from Barangaroo (x2), Chatswood Dive (x1), CNISD (x3), CSM (x1) and PSISD (x3). Of these:

- three are under investigation by the Contractors and/or Sydney Metro;
- three were classified as unavoidable; and
- four were classified as avoidable.

Details of the avoidable complaints are as follows:

- One complaint was received at Northern Connection (Chatswood) from Mowbray Road stormwater and water supply works. The complaint was in relation to noise during the evening of Sunday 5 February which was the start date of the works. There was also a late change to the community notification for the works which potentially exacerbated the scenario.
- One complaint was received at CSM from a resident on Regent Street about noise from security guard two-way radios at the entrance to Sydney Yard Access Bridge. Security guards have been requested to wear headsets connected to radios weekdays from 7pm to 7am and on weekends 24/7 to reduce noise to nearby neighbours.
- Two complaints from the same complainant were received at CNISD in relation to a forklift operating outside of standard construction hours without an approval. The first complaint was due to the event itself. The complainant then complained a second time, in follow up of their original complaint given that a formal response had not been received. A non-compliance was raised by the contractor for this event.

Initiatives, continual improvement and feedback

- Generally, we are re-emphasizing the need for a strong justification for out of hours applications and that contractors exhaust all options to conduct work during standard hours before they seek an OOHW approval.
- CNISD has recently installed a shroud around the Tower Crane 3 (TC3) engine bay in Site B to mitigate the noise. This is to support the possible use of TC3 during OOH periods if noise levels satisfy E44 (d). We are awaiting the final outcomes of this work including verification measurements and whether it is plausible to operate TC3 OOH whilst meeting relevant noise

limits. We have also discussed the option of a community agreement with the contractor in the event there are residual noise levels above E44 (d) at some noise sensitive receptors.

- We are encouraging pro-active and wholistic scheduling of work that needs to be undertaken OOH (eg utilities) with the view of prioritising respite nights for the community. This includes scheduling separate OOH packages on the same night where possible.
- We continue to advocate the use of alternative work practices to rock hammering for the removal of temporary structures, where required.
- WISD contractors continue to be highly proactive with the community in terms of information sharing and engagement with several events and initiatives being undertaken through January and February 2023. Furthermore, careful planning of work locations and timing is being implemented, with a two-week calendar look ahead advocated by the AA and ER and being implemented by the contractor to provide greater visibility of times and locations of OOH to the AA and ER. In addition with the new package of utilities works for March, April and May, ER and AA have also requested confirmation of works completed in the previous two weeks, location of works and RO/AA offered.
- Extension to OOHWA for WISD are largely as a result of delays in the completion of the scheduled OOH utilities works for various construction related reasons, rather than an increased number of activities. WISD has completed limited OOH utilities works in February 2023.

Non-compliances, incidents and events

Two non-compliances were raised at CNISD this month:

- A non-compliance was raised for the forklift that was operating OOH without an approval;
- OOHWA25 has an AA approval condition for monthly attended noise monitoring during evening and night periods to verify predictions until otherwise agreed with the AA. The monitoring was not undertaken in January 2023 for which a non-compliance has been raised.

Ongoing and upcoming environmental risks

- There will be three nights of OSOM girder deliveries at CNISD during March. It is our understanding that this will be the final girder deliveries.
- A significant phase of utilities works will continue at Barangaroo, PSISD and WISD. OOH is required due to ROL requirements and footpath permits from Council.
- Public domain works at CNISD and will continue for several months. This will require a substantial scope of utilities works of which some will be required OOH to facilitate utility service provider requirements.
- Capping beam removal will continue at WISD and CNISD during standard construction hours. The alternative lower noise method of wire saw and core drilling (consistent with successful removal of capping beam at PSISD) is being used where feasible and has proved to provide additional benefits in terms of dust suppression and smaller exclusion zones on site. The WISD contractor has also demonstrated that capping beam removal with wire saw can occur at discrete locations of the site during the evening hours (NML compliant) with the activities subject to verification measurements.
- At Barangaroo, backfill of the Hickson Road shaft within the acoustic shed is planned in approximately 6 weeks. This will likely require in the order of 6 weeks of concrete pours. In many cases concrete pours will be required OOH to meet required technical specifications.

Recommendations (incl auditing):

Nothing to report.

Acronyms

<i>CMR</i>	<i>Construction Monitoring Report</i>
<i>CNISD</i>	<i>Crows Nest Integrated Station Development</i>
<i>CNVIS</i>	<i>Construction Noise and Vibration Impact Statement</i>
<i>CNVMP</i>	<i>Construction Noise and Vibration Management Plan</i>
<i>CSM</i>	<i>Central Station Metro</i>
<i>DPE</i>	<i>NSW Department of Planning and Environment</i>
<i>ER</i>	<i>Environmental Representative</i>
<i>ISD</i>	<i>Integrated Station Development</i>
<i>LWW</i>	<i>Line Wide Works</i>
<i>MPISD</i>	<i>Martin Place Integrated Station Development</i>
<i>NCR</i>	<i>Non-Compliance Report</i>
<i>NVA</i>	<i>Noise and Vibration Assessment</i>
<i>NVMP</i>	<i>Noise and Vibration Monitoring Plan</i>
<i>NVMR</i>	<i>Noise and Vibration Monitoring Report</i>
<i>OOH</i>	<i>Out of hours</i>
<i>OOHW</i>	<i>Out of hours work</i>
<i>OOHWA</i>	<i>Out of Hours Work Application</i>
<i>OSOM</i>	<i>Oversize, overmass</i>
<i>PCB</i>	<i>Precast Beams</i>
<i>PSISD</i>	<i>Pitt Street Integrated Station Development</i>
<i>ROL</i>	<i>Road Occupancy License</i>
<i>SSJ</i>	<i>Sydenham Station Junction</i>
<i>TSS</i>	<i>Traction Substation</i>
<i>VCISD</i>	<i>Victoria Cross Integrated Station Development</i>
<i>WISD</i>	<i>Waterloo Integrated Station Development</i>