


MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

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

EMM Consulting Pty Limited (EMM) presents the April 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:
 - CSM CNVMP Rev 14
 - CSM CNVMPP Aug 22 to Jan 23 Rev 1
 - LWW TSOM Train Testing NVIA
 - LWW CSSI 7400 C16 & CSSI 8256 C14 CMR Sep 22 to Feb 23
 - MPISD CNVMP Rev 19
 - MPISD NVMR Jul to Dec 2022 Rev 0
 - SSJ CMR 09 Sep 2022 to Feb 2023
 - SSJ CNVMP Rev 12.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - Barangaroo OOHWA 14 Shaft Backfilling Rev 1
 - Barangaroo OOHWA 2.7 April 2023 to August 2023
 - CNISD OOHWA 31 TC2 removal
 - LWW OOHWA 305 Northern Connection Possession Works Week 42
 - MPISD OOHWA 96 Rev 6
 - MPISD OOHWA 99 Rev 2
 - PSISD OOHWA 55 PSN Tower Crane Rev 1
 - WISD OOHWA 49 Ausgrid Outage 4 Rev C
 - WISD OOHWA 53 May, June and July (general) Rev B.
- 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:

- WISD inspection with ER on 6 April 2023
- VCISD inspection with ER on 19 April 2023

- PSISD inspection with ER on 27 April 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), PSISD (x2) and VCISD (x2). Of these:

- one is under investigation (CNISD) by the Contractor and/or Sydney Metro;
- six were classified as unavoidable; and
- three were classified as avoidable.

Details of the avoidable complaints are as follows:

- One complaint was received in relation to music from CNISD, including alleged dancing and singing by a worker. This is after a ban on music devices triggered by past complaints. This complaint is currently under review by the ER and AA and may result in a non-compliance.
- One complaint was received at VCISD South from a resident within Alexander Apartments at 79-81 Berry Street in relation to formwork activities starting prior to 7am without approval. This resulted in a non-compliance. It is also the third such complaint from the same resident for works starting prior to 7am that has resulted in a non-compliance. The ER and AA have discussed additional subcontractor penalties with the PC to help minimise the risk of future occurrences. Relocation of the RTNM to a more representative location for 79-81 Berry Street is also being investigated by the PC to assist with noise management.
- One complaint from the Chatswood Dive site was received from a resident regarding loading activities on Elizabeth Street outside of standard construction hours.

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.
- 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 OOHW 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.
- PSISD has shown over the last two ER/AA inspections a marked improvement in general site organisation and management of materials on site, including observations of careful handling and stacking of scaffold and propping materials.

- WISD contractors continue to be highly proactive with the community in terms of information sharing and engagement with several events and initiatives being undertaken in 2023 through March, April and continuing into May including Mission Australia Outreach, Waterloo Redevelopment Action Group and Community Connect Event. Continued 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 OOHW to the AA and ER
- 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 April 2023. Some design changes have also enabled some power pole works that were schedule for OOH to be completed during standard hours.

Non-compliances, incidents and events

- One non-compliance was raised at VCISD in relation to formwork activities occurring prior to 7am.

Ongoing and upcoming environmental risks

- A significant phase of utility works will continue at PSISD and WISD. OOHW is required due to ROL requirements and footpath permits from Council.
- The CNISD Site B tower crane (TC3) has been approved to operate between 6pm to 10pm. This is a result of a noise control shroud being installed, and further consultation with two residents where residual noise levels above NML were predicted. Follow-up consultation has been undertaken throughout April and no issues have been raised by the two residents.
- Public domain works at CNISD will continue for several months. This will require a substantial scope of utility works, of which some will be required OOH to facilitate utility service provider requirements. The PC is scheduling a large portion of this work during standard hours to minimum OOH impacts to residents, however an unfortunate consequence of this is increased impacts at commercial receivers.
- Capping beam removal will continue at WISD and CNISD during standard construction hours. At WISD, 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. Due to site constraints in some areas at WISD, removal is being completed with excavator and hydraulic hammer during standard hours only. Work practices are being amended to allow a 1hr respite and RO in the form of vouchers are also being offered to highly impacted receivers. This method is not possible at CNISD due to space limitations, however the PC is alternating capping beam demolition between Site A and Site B week to week to provide respite to nearest receivers to each site, in addition to the scheduled respite hours that are currently agreed with the community.
- Capping beam removal will start at VCISD North in the coming weeks. The alternate method including wire saw and core drilling has been investigated but is not feasible due to space limitations. Capping beam demolition will occur near the north boundary that is shared with the 243 Miller Street residence, hence noise and vibration will be monitored closely by the PC.
- At Barangaroo, backfill of the Hickson Road shaft within the acoustic shed was planned to start Thursday 20 April. There have been delays to this work, which is now expected to commence

Wednesday 3 May 2023. This will require in the order of 20 shifts of concrete pours. Extended concrete pours will be required into the evening and night (on occasion) to meet required technical specifications.

- PSISD South has an upcoming scope of works for the realignment of a gas main in Bathurst Street that they are currently working through. Due to location of works in Bathurst Steet and multiple lane closures, ROLs will be required and works completed at night. We have provided initial feedback to a briefing by the PC on the proposed works indicating potential risks. The PC are currently working through the constraints with their Acoustic Consultant and engineering design team to implement all feasible and reasonable mitigation measures before implementing the AMMs from the OOHWP.

Recommendations (incl auditing):

Nothing to report.

Acronyms

<i>AMMs</i>	<i>Additional Mitigation Measures</i>
<i>CMR</i>	<i>Construction Monitoring Report</i>
<i>CTR</i>	<i>Compliance Tracking 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>CNVMPR</i>	<i>Construction Noise and Vibration Management Program Report</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>OOHWP</i>	<i>Out of Hours Work Protocol</i>
<i>OSOM</i>	<i>Oversize, overmass</i>
<i>PCB</i>	<i>Precast Beams</i>
<i>PC</i>	<i>Principal Contractor</i>
<i>PSISD</i>	<i>Pitt Street Integrated Station Development</i>
<i>ROL</i>	<i>Road Occupancy License</i>
<i>RTNM</i>	<i>Real Time Noise Monitor</i>
<i>SSJ</i>	<i>Sydenham Station Junction</i>
<i>TSOM</i>	<i>Trains, Systems, Operations and Maintenance</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>

