


## MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

<b>Project:</b>	<b>Chatswood to Sydenham SSI-7400</b>		
<b>For period:</b>	<b>September 2023</b>	<b>Authorisation:</b>	
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<b>Date of issue:</b>	6 October 2023		

### **Introduction**

EMM Consulting Pty Limited (EMM) presents the September 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 October 2022 to March 2023 Rev 0
  - CNISD OOHWA 25.2 August Noise Monitoring Report Rev 0
  - CSM CMR February 2023 to July 2023 Rev 0
  - LWW CMR March to August 2023 Rev 0
  - LWW Frank Channon Walk CNVIS Addendum to Chatswood Dive Rev 4
  - LWW CNVMP Rev 5.1
  - PSISD CMR Q1 and Q2 2023 Rev 0
  - PSISD Utilities Works noise assessment (2 crews on Pitt Street) – review only
  - VCISD CNVMP Rev F
  - VCISD NVMR January to June 2023 Rev 1
  - WISD CNVMP Rev 04.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
  - Barangaroo OOHWA 1 24-hour deliveries Rev 6
  - Barangaroo OOHWA 24 Footbridge removal Rev 1
  - CNISD OOHWA 33 Pacific Highway intersection upgrade Rev 2
  - CNISD OOHWA 34.1 24-hour construction Rev 0
  - CNISD OOHWA 35 Hume Street water service Rev 0
  - LWW OOHWA 268 Belmore Street dewatering works Rev 03
  - MPISD OOHWA 102 South hoarding works Rev 0
  - MPISD OOHWA 103 Stormwater works Rev 1
  - PSISD OOHWA 58 Project works October to December 2023 Rev 1
  - PSISD OOHWA 59 Multiple utilities crews Rev 00
  - VCISD OOHWA 15 North site evenings Rev 23
  - VCISD OOHWA 17 South site fit out and deliveries Rev 18
  - VCISD OOHWA 20 North site weekends Rev 15

- WISD OOHWA 47 Lighting install Rev 06
- WISD OOHWA 54 Civil works permit extension Rev 02
- WISD OOHWA 59 Wellington/Cope Watermain and Civil work Rev A.
- 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 September 2023
- WISD inspection with ER on 7 September 2023
- PSISD inspection with ER on 12 September 2023
- MPISD inspection with ER on 15 September 2023
- VCISD inspection with ER on 26 September 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 (noise only).

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 CNISD (x4), PSISD (x1), VCISD (x1) and WISD (x1) were received. Three of these remain open and are under investigation by the PC and the remaining have been classed as unavoidable.

### ***Initiatives, continual improvement and feedback***

- Further noise measurements to verify the performance of the acoustic tent have been undertaken at the PSISD Bathurst Street utility works. A reduction from road saw activities has been measured at 6 dB (subject to further measurement), whilst 5 dB was provided on the closed side of the tent with the rock hammer operating within then tent.
- The CNISD has procured an acoustic tent (like that used at PSISD) for the Pacific Highway utility works for the next three months (approximately). The works are immediately surrounding by multi-storey apartment buildings meaning noise blankets would be generally ineffective beyond the first few floors. The acoustic tent which reduces noise propagating in a vertical plane more effectively was therefore deemed to be feasible and reasonable.

### ***Non-compliances, incidents and events***

Nothing to report.

### ***Ongoing and upcoming environmental risks***

- At CNISD, the Pacific Highway utility works have commenced at the intersections of Oxley Street and Hume Street. These works will continue into December and are expected to be complete before the Christmas holiday period.
- Utility works continue at PSISD and WISD. OOHW is required due to ROL requirements and footpath permits from Council.
- Public domain works at CNISD will continue for several months. This will require ongoing utility works, some 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 minimise OOH impacts to residents, however a consequence of this is increased impacts at commercial receivers.
- Capping beam removal will continue at CNISD during standard construction hours. Alternative methods to capping beam demolition other than using excavators with hydraulic hammers is not possible at CNISD due to space limitations. Most capping beam demolition is complete, except for a section at the Site B south boundary adjacent to 473 Pacific Highway. The PC is actively engaging with nearby businesses that are most impacted by the works and looking for additional opportunities to minimise impacts where possible.
- ER and AA are currently reviewing the potential for two crews to work at Pitt Street simultaneously to manage overall impacts and limit the duration and number of nights required for utilities works. We have provided preliminary advice in terms of the requirement for community consultation and implementation of all feasible and reasonable mitigation measures. This option is still under review and subject to input from community consultation that has commenced.
- ER and AA are working with JHG for an extended phase of stormwater and asset protection works at WISD and looking to provide Alternate Accommodation for an extended period to relevant receivers to minimise the number of nights required to work and the overall disruption to the community.

### ***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>NML</i>	<i>Noise Management Level</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>OSD</i>	<i>Overstation development</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>PSN</i>	<i>Pitt Street North</i>
<i>PSS</i>	<i>Pitt Street South</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>

