


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

<b>Project:</b>	<b>Chatswood to Sydenham SSI-7400</b>		
<b>For period:</b>	<b>October 2023</b>	<b>Authorisation:</b>	
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<b>Date of issue:</b>	7 November 2023		

### **Introduction**

EMM Consulting Pty Limited (EMM) presents the October 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:
  - CNISD capping beam demolition vibration report Rev 0
  - CNISD OOHWA34.1 September noise monitoring Rev 0
  - CSM CNVMPR February to July 2023 Rev 0
  - LWW CMR March to August 2023 Rev 0 and Rev 1
  - PSISD CMR Q1 and Q2 2023 Rev 0 and Rev 1
  - PSISD Utilities (2 Crew Pitt Only) Noise Assessment
  - VCISD NVMR January to June 2023 Rev B.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
  - Barangaroo OOHWA 25 Hickson Road Traffic Switch 1 Rev 0
  - CNISD OOHWA Hume Street Water Service Rev 2
  - PSISD OOHWA 59 Multiple Utilities Rev 0
  - WISD OOHWA 46 Botany Road Hydrant Works Rev 04
  - WISD OOHWA 57 November 2023 to January 2024 (General) Rev 2
  - WISD OOHWA 58 November 2023 to January 2024 (Utilities) Rev 02
  - WISD OOHWA 59 Wellington/Cope Watermain and Civil Rev B
  - WISD OOHWA 60 Ausgrid Outage 6 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:

- CNISD Pacific Highway intersection OOHWA site inspection and noise measurements on 5 October 2023
- PSISD night inspection and audit on 11 October 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), Chatswood Dive (x1) and PSISD (x1) were received.

One complaint at CNSID was received for blockworks starting before 8am on a Sunday without approval. The PC has raised a non-compliance for this event.

One CNISD complaint remains open and is under investigation.

All remaining complaints at CNISD and PSISD were for works generally undertaken in accordance with approvals and have been classed as unavoidable.

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

PSISD trialled and successfully implemented the use of acoustic tents for OOHW providing noise attenuation benefitting both ground level and upper levels of sensitive receivers. Use of the tent was witnessed by ER, AA, DPE and SM on the night of 11 October 2023. The application of the tent for PSISD works has assisted in demonstrating to other contractors on the project that acoustic tents are feasible for some works and demonstrate best practice and adoption of all feasible and reasonable measures.

We will look to review acoustic tent performance and characteristics to assist in further refining their use for maximum acoustic benefit for sensitive receivers.

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

As mentioned above, one non-compliance has been raised at CNISD for blockworks starting on a Sunday prior to 8am without approval.

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

- At CNISD, the Pacific Highway intersection works at Oxley and Hume Streets have been delayed whilst some design coordination issues are resolved. At this stage it is unknown when the works will re-commence.
- Utility works continue at PSISD and WISD. OOHW is required due to ROL requirements and footpath permits from Council.
- Extensions to OOHWA at WISD are largely a result of limited works being completed under previous approvals following design issues, contractor availability and liaison with utility service providers.
- Public domain works at CNISD are progressing and will continue sporadically for the coming months. Some of this is utility works which are 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. Most of these works to date have been on Clarke Street, Crows Nest.
- Capping beam removal at CNISD is now complete.
- 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. Community feedback has been received following more than two weeks of consultation with the overwhelming response (90-95%) being in favour of a shorter but potentially more intense OOH works period. The limited negative response was from respondents that wanted no noise during standard or OOH periods. The ER and AA are looking to approve these works with conditions following demonstrated consistency with CNVIS outputs, clear management of works to limit cumulative impacts and a strategy for noise monitoring in conjunction with the demonstrated community support. In particular the PC will work with hotel operators to schedule the works to minimise noise impacts for key clientele where practical.

- A further scope of consecutive nights of work on PSN for PSISD at Pitt Street is being considered by the ER and AA as a result of location of works and limited impact on sensitive residential receivers. The ER and AA are seeking verification monitoring of these activities prior to approval to ensure that the relevant respite requirements of the OOHWP are being met.
- The ER and AA are working with PC 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. This phase of works is still under review and assessment following extensive feedback from the ER and AA.
- The Hickson Road realignment traffic switch works at Barangaroo are currently underway during standard hours. There will be three stages of OOHWP required to tie-in the Hickson Road realignment at each end as well as general finishing works along the full realignment. The first stage was for 1 to 2 nights of work which is complete and was performed successfully. The second stage will likely be the most impactful of the three and will require a continuous 58-hour shift over the weekend, planned for mid-November. Works for the final shift will likely be minor requiring one night shift.

***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>Over Station Development</i>
<i>OSOM</i>	<i>Over Size, Over Mass</i>
<i>PCB</i>	<i>Precast Beams</i>
<i>PC</i>	<i>Principal Contractor</i>
<i>PSISD</i>	<i>Gadigal Station (formerly 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>