


MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

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

EMM Consulting Pty Limited (EMM) presents the January 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 CNVIS Civil Works Rev 7;
 - LWW CMR March to August 2022 (CSSI 7400 C16 & CSSI 8256 C14) Rev 1;
 - PSISD CMR Q3 2022 Rev 2;
 - PSISD CNVIS Rev17; and
 - SSJ CNVMP Rev 11.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - Barangaroo OOHWA 12 High Voltage Works Rev 2;
 - Barangaroo OOHWA 15 Pedestrian Ramps Rev 1;
 - CNISD OOHWA Concrete Pour Oxley Street Rev 1;
 - CNISD OOHWA OSOM Delivery 2023;
 - CSM OOHWA January 2023 v3;
 - LWW OOHWA 283 Chatswood Emergency Generator;
 - LWW OOHWA 288 Barangaroo Shaft Generator;
 - LWW OOHWA 282 Surry Hills BPS Minor Ancillary Facility Demobilisation Rev A;
 - LWW OOHWA 275 Chatswood Dive sewer and water connection works Rev 1;
 - PSISD OOHWA 53 Facade Installation PSN Rev 2;
 - PSISD OOHWA 50 Rev 6;
 - PSISD OOHWA 50 Rev 7 (following further update);
 - VCISD OOHWA17 Feb/March 2023; and
 - WISD OOHWA 50 Feb Mar Apr (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:

- PSISD inspection with ER on 17 January 2023; and
- WISD inspection with ER on 25 January 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

One complaint was received from PSISD due to OOH utilities work which was classified by the contractor as unavoidable. High noise activities were completed prior to midnight in accordance with OOHWA, noise blankets were installed around the work area and the vacuum truck suction pressure was reduced to minimise noise. It was noted that another contractor not related to Sydney Metro work was also working in Wilmot Street near Pitt Street.

Initiatives, continual improvement and feedback

- We continue to seek opportunities with Sydney Metro and Principal Contractors for a general refresh of ongoing works that are being undertaken OOH to minimise potential risks as the project continues construction well above ground level. One example is works at Victoria Cross South which have been revisited in response to repeat noise complaints received late 2022. Exclusion zones have been established for works between 7am and 8am on weekends and 10pm to 3am on weekdays so that noise levels that satisfy condition E44 d are maintained.
- At CNISD, we are advocating for an OOHW schedule to be developed in consultation with the community for ongoing public domain works, similar to that prescribed in an EPL (eg 3 nights in a week and 10 nights in a month). This is based on positive outcomes achieved at other sites and in particular at Barangaroo, whereby the contractor has undertaken OOHW on Hickson Road five nights a week over many months with very little complaint or negative feedback from the community. The success factors of this work have been through planning and front-loading feasible and reasonable noise mitigation and management, the works being executed consistently to the plan, and the plan being well communicated to the surrounding community.
- We continue to advocate the use of alternative work practices to rock hammering for the removal of temporary structures. Capping beam removal using a wire saw continued at WISD and commenced at CNISD. VCISD is currently exploring this as an option for the capping beam demolition for the north site.
- 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 November and December 2022. 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 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 January 2023.

Non-compliances, incidents and events

Nothing to report.

Ongoing and upcoming environmental risks

- OOH works, particularly long running concrete pours and/or oversize deliveries at ISD sites at PSISD, VCISD and CNISD will continue. There is anticipated to be no more long running concrete pours for PSISD and WISD. Limited OSOM deliveries are anticipated for PSISD or WISD except for façade panels and large mechanical and electrical items for plantroom fitout.
- A significant phase of utilities works will continue at PSISD and WISD. OOHWA 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.
- Sewer and stormwater works will be starting early February at the Chatswood Dive site near the site entry on Mowbray Road. This work requires an ROL and will be undertaken multiple nights a week for up to three weeks.

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>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>