

MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

Project:	Chatswood to Sydenham SSI-7400		
For period:	April 2024	Authorisation:	
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Introduction

EMM Consulting Pty Limited (EMM) presents the April 2024 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 (AA) Activity

- Review and/or endorsement of:
 - Barangaroo NVMR April to September 2023 Rev 3
 - CNISD CMR April to September 2023 Rev B
 - CNISD CNVMP Rev 6
 - CNISD February noise monitoring report Rev 0
 - LWW Chatswood remediation CNVIS Rev 2
 - LWW CMR September 2023 to February 2024 Rev 0
 - MPISD NVMR July to December 2023 Rev 1
 - SSJ Construction Noise Monitoring Report 10 Rev B
 - VCISD CMR July to December 2023 Rev C
 - WISD CEMP Rev 5.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - Barangaroo OOHWA 32 Vivid Traffic Switches Rev 0
 - CNISD OOHWA 34 24 Hour Construction Rev 3
 - CNISD OOHWA 43 Light Pole Installation Rev 0
 - CSM OOHWA 72 April & May 2024 Rev 2
 - MPISD OOHWA 92 Utility Investigation Rev 7
 - MPISD OOHWA 93 Deliveries and Removals Rev 6
 - MPISD OOHWA 94 North Site hoarding works Rev 12
 - MPISD OOHWA 108 South Site hoarding works Rev 2
 - MPISD OOHWA 108 Public Domain Rev 5
 - PSISD OOHWA 63 Project Works April to June 2024 Rev 1
 - VCISD OOHWA 34 South site gas connection Rev 1
 - VCISD OOHWA 29 Berry St high voltage Rev 3
 - WISD OOHWA 54 Civil Works Rev 8
 - WISD OOHWA 61 Botany Road Reinstatement Rev C.

- Attendance at ongoing meetings with CNISD, VCISD, Barangaroo Station, PSISD, MPISD, and WISD contractors.

Inspections, audits and site visits

The following was completed:

- WISD inspection with ER on 4 April 2024
- WISD inspection from public domain on site setup in Wellington and Cope Streets on 15 April 2024
- Barangaroo inspection with ER and DPHI on 11 April 2024
- CNISD OOH observations and measurements on 15 April 2024.

Monitoring status

Real-time noise and vibration monitoring (with real-time access) is ongoing at CNISD, VCISD north and south (noise only), Barangaroo, PSISD (noise at South only – north has been decommissioned following discussion and agreement with AA), and MPISD (vibration 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 (x1), PSISD (x1), VCISD (x2) and WISD (x1) were received.

The complaint at PSISD was classed as avoidable by the respective PC. This was due to hammering noise prior to 7am. Review of the works confirmed it was permitted under the relevant OOHWA. Despite allowance under the relevant OOHWA and verification measurements confirming works less than NML and not triggering sleep disturbance, AA and ER have reminded the PC of best practice and expectation that works would not commence prior to 7am. This acknowledges that night OOHWA are typically completed between 3am to 4am, hence any noise between 4am and 7am from the ISD is not anticipated by the community. This has been passed onto the PC and communicated to Contractors through a Tool Box Talk.

The remaining complaints were classed as unavoidable or remain under investigation by the respective PCs.

Initiatives, continual improvement and feedback

With CNISD OOH utility works now happening on a regular basis, EMM will be attending site on a weekly basis (subject to the proposed activities being 'noisy') to observe controls and undertake noise measurements to verify against the predictions. The main outcomes from these measurements will be reported back to the PC and Sydney Metro along with opportunities for improvement and lessons learned for future OOHWA. There has been limited OOHWA during April due to public holidays and other delays. One site visit was undertaken during April to measure and observe Sydney Water pipe connection works.

Monthly attended noise monitoring continues at CNISD which has been conditioned by the AA and ER as part of the 24-hour fit-out and delivery OOHWA approval. The monitoring is undertaken by the PCs acoustic consultant. This has been a useful means of monitoring performance and identifying opportunities for continual improvement. This monitoring will continue until otherwise agreed between EMM and the PC.

Non-compliances, incidents and events

No non-compliances related to acoustics.

Ongoing and upcoming environmental risks

- Overall, the key ongoing risk for the project from an acoustics perspective continues to be OOHW relating to utilities and public domain works.
- At Barangaroo, Hickson Road traffic switch works will be starting early May 2024. Most of this work has been scheduled during standard hours, with up to four nights needed across different weeks (ie one night per week) to undertake the traffic switch.
- The Pacific Highway works at Oxley and Hume Streets intersections at CNISD are currently on hold. Notwithstanding, there are other OOHW planned in the immediate term to install new light poles on Hume Street, Pacific Highway and Clark Street, Crows Nest. Similar practices to the intersection works will be adopted, such as utilising early ROLs, restricting work to primarily Sunday, Monday and Wednesday nights, and stopping higher noise activities (eg sawing, hammering etc.) prior to mid-night. Most of the higher noise preparatory work, such as establishing the footings for the new poles, will be undertaken during standard hours.
- Approximately four weeks of road milling and re-asphalting is scheduled at CNISD from early-June 2024. Most of this work has been scheduled during standard hours, however there will be the need for some limited OOHW under ROL.
- At CNISD, small sections of capping beam positioned centrally within the site will be removed progressively when access can be established using hydraulic hammers mounted to excavators during standard construction hours.
- Public domain works for MPISD are in the final stages, with a Public Open Day planned on 5 May 2024.
- Utility works continue at PSISD and WISD. The majority of WISD works are complete. Whilst an additional phase of public domain works is anticipated for April through to June. OOHW is required due to ROL requirements and footpath permits from Council.
- There are small packages of OOHW occurring at VCISD over the coming weeks. This includes gas connection works on Denison Street which are currently underway, and some minor intersection upgrade works for both the south and north sites.
- Extensions to OOHWA at MPISD are largely a result of limited works being completed under previous approvals and have been prepared to cover off remaining public domain works which are generally minor.
- 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.
- At WISD the design requirements for stormwater and asset protection have changed and enabled the OOH components to be significantly scaled down. It is currently anticipated that Wellington Street works will be completed during daytime hours. Half road closures are commenced on Raglan and Wellington Streets to alleviate worker safety concerns and to complete majority of works in standard hours. A phase of works for road milling and resurfacing on Wellington Street is still under review and assessment following feedback from the ER and AA. This remains ongoing and the request from the AA and ER is for the PC to complete Wellington Street and Cope Street during daytime hours.

Recommendations (incl auditing):

Nothing to report.

Acronyms

AA	<i>Acoustics Advisor</i>
AMMs	<i>Additional Mitigation Measures</i>
CMR	<i>Construction Monitoring Report</i>
CTR	<i>Compliance Tracking Report</i>
CNISD	<i>Crows Nest Integrated Station Development</i>
CNVIS	<i>Construction Noise and Vibration Impact Statement</i>
CNVMP	<i>Construction Noise and Vibration Management Plan</i>
CNVMPR	<i>Construction Noise and Vibration Management Program Report</i>
CSM	<i>Central Station Metro</i>
DPHI	<i>NSW Department of Planning, Housing and Infrastructure</i>
ER	<i>Environmental Representative</i>
ISD	<i>Integrated Station Development</i>
LWW	<i>Line Wide Works</i>
MPISD	<i>Martin Place Integrated Station Development</i>
NCR	<i>Non-Compliance Report</i>
NML	<i>Noise Management Level</i>
NVA	<i>Noise and Vibration Assessment</i>
NVMP	<i>Noise and Vibration Monitoring Plan</i>
NVMR	<i>Noise and Vibration Monitoring Report</i>
NVAMR	<i>Noise and Vibration Annual Monitoring Report</i>
OOH	<i>Out of hours</i>
OOHW	<i>Out of hours work</i>
OOHWA	<i>Out of Hours Work Application</i>
OOHWP	<i>Out of Hours Work Protocol</i>
OSD	<i>Over Station Development</i>
OSOM	<i>Over Size, Over Mass</i>
PCB	<i>Precast Beams</i>
PC	<i>Principal Contractor</i>
PSISD	<i>Gadigal Station (formerly Pitt Street) Integrated Station Development</i>
PSN	<i>Pitt Street North</i>
PSS	<i>Pitt Street South</i>
ROL	<i>Road Occupancy License</i>
RTNM	<i>Real Time Noise Monitor</i>
SSJ	<i>Sydenham Station Junction</i>
SWMC	<i>Southwest Metro Corridor</i>
TSOM	<i>Trains, Systems, Operations and Maintenance</i>
TSS	<i>Traction Substation</i>
VCISD	<i>Victoria Cross Integrated Station Development</i>
WISD	<i>Waterloo Integrated Station Development</i>