


MONTHLY NOISE AND VIBRATION REPORT CITY & SOUTHWEST ACOUSTICS ADVISOR

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

EMM Consulting Pty Limited (EMM) presents the May 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 October 2023 to March 2024 Rev 0
 - CNISD Noise Measurement Report April 2024 Rev 1
 - LWW CSW and SW CMR September 2023 to February 2024 Rev 2
 - MTS ONVMP Rev 2
 - MTS Trial Running CNVIS Rev 3
 - PSISD CMR Q3 and Q4 2023 Rev 2.
- Review and/or endorsement of out of hours work applications (OOHWA) and extensions for:
 - Barangaroo OOHWA 32 Vivid Traffic Switches Rev 1
 - CNISD OOHWA 33.2 Pac Hwy Intersection Rev 7
 - CNISD OOHWA 41 Road Resurfacing Rev 0
 - CNISD OOHWA 43 Light Pole Installation Rev 2
 - CNISD OOHWA 46 Lighting Conduit Rev 3
 - CSM & SYAB OOHWA 73 June to October 2024 Rev 0
 - VCISD OOHWA 35 Denison St Gas Connection Works Rev 3
 - WISD OOHWA 47 Botany Light Install Rev 10
 - WISD OOHWA 52 Civil Investigation Works Rev 9
 - WISD OOHWA 54 Civil Works Rev 9
 - WISD OOHWA 61 Botany Road Reinstatement Rev D (review only).
- Attendance at ongoing meetings with CNISD, VCISD, Barangaroo Station, PSISD, MPISD, and WISD contractors.

Inspections, audits and site visits

The following was completed:

- PSISD inspection with ER on 2 May 2024
- MPISD inspection with ER on 6 May 2024

- WISD inspection with ER on 16 May 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 south 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 Chatswood Dive (x3) and PSISD (x2) were received.

The three complaints from Chatswood Dive were for sheet piling works that were undertaken during standard construction hours however outside the times that were indicated in the community update. We understand that a non-compliance has been issued with respect to the community notification.

With respect to PSISD, the source of one complaint was related to unavoidable emergency works to remove a stuck drill rod, that if remained would not allow the road to be made safe for traffic the following day. The other complaint was from Kimpton Margot Hotel for work on a Wednesday night. These works were in accordance with approved OOHWA and a review of RTNM confirmed levels within the range of those predicted. The PC has committed to initiate further meetings with KMH to inform them of status and upcoming works.

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 OOHW. OOHW in May 2024 were mostly delayed due to poor weather or design coordination matters so no site visits were undertaken.

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 the AA 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 Chatswood Dive, hydraulic hammer concrete removal works are complete and sheet piling works are scheduled to finish this week. Beyond this, works will be largely limited to excavation and loadout of contaminated materials principally involving excavators and truck and dogs. These activities would continue to be daytime and represent a much lower risk profile in terms of noise and vibration than previous hydraulic hammering and piling activities. Works are anticipated to be complete by end of August.

- At Barangaroo, Hickson Road traffic switch works are progressing well with two of the four OOH shifts now complete. The remaining two single night shifts will occur in June 2024 once Vivid ends.
- The Pacific Highway works at Oxley and Hume Streets intersections at CNISD will be recommencing in the first half of June 2024. There are other OOHW planned in the immediate to short 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. Further, OOH road milling and re-asphalting is scheduled to start next week. Most of this work has been scheduled during standard hours, however there will be the need for up to three single night OOH shifts 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. 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.
- Utility works continue at PSISD but are anticipated to be complete by mid-June with remaining works for PSN and PSS associated with public domain, hoarding removal and minor façade works.
- The majority of works at WISD are complete. Some remaining public domain works will be held off and completed under the OSD phase of the development. Extensions to OOHWA at WISD for lighting install, civil investigation and civil works (OOHWA 47 Rev 10, OOHWA 52 Rev 9 and OOHWA 54 Rev 9) are largely a result of limited works being completed under previous approvals following design issues, contractor availability, liaison with utility service providers and safety constraints.
- 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>
CSW	<i>City and Southwest</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>
MTS	<i>Metro Trains Sydney</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>
ONVMP	<i>Operational Noise and Vibration Management Plan</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>
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>
SYAB	<i>Sydney Yard Access Bridge</i>
SWMC	<i>Southwest Metro Corridor</i>
TSOM	<i>Trains, Systems, Operations and Maintenance</i>
VCISD	<i>Victoria Cross Integrated Station Development</i>
WISD	<i>Waterloo Integrated Station Development</i>