

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	April 2024	Authorisation:	Dave Anderson, Acoustics Advisor
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Date of issue:	7 May 2024		

Acoustics Advisor	Alternate Acoustics Advisor(s)
Dave Anderson	Larry Clark, David Hanson and Sav Shimada

Document review		
Document	Reviewed	Endorsed / approved
Central Tunnelling Package (CTP), AFJV		
Weekly Noise Report 22/03/24	Y	N/A
Weekly Noise Report 29/03/24	Y	N/A
Weekly Noise Report 5/04/24	Y	N/A
TBM Queen Street GBV Monitoring Report	Y	N/A
AFJV approved OOHW Permits	Y	N/A
Burwood North DNVIS Rev 13	Y	12/4/24
Bi-Annual Construction Monitoring Report Dec 2022 - June 2023	Y	16/4/24
Five Dock TBM Support noise feasible and reasonable review	Y	N/A
Western Tunnelling Package (WTP), GLC		
Noise and Vibration Monitoring Program Rev G	Y	3/5/24
WMD OOH shotcrete deliveries noise monitoring reports	Y	N/A
92 Wetherill St TBM vibration monitoring results	Y	N/A
LAW Priddle and Hawkesbury DNVIS	Y	In progress
Westmead Utilities Relocation (WUR), Quickway	Nil	
Eastern Tunnelling Package (ETP), JCG¹		
<i>Pyrmont DNVIS addendum – OOH deliveries with tower crane: extension of dates for source noise control investigation</i>	Y	17/4/24
<i>Pyrmont DNVIS addendum – OOH tunnelling prior to shed completion</i>	In progress	
<i>CNVMP and Monitoring Program Rev 3</i>	In progress	
<i>Monitoring reports and data</i>	Y	N/A

Inspections / site visits		
Date	Location(s)	Details
3 April	Parramatta, Westmead, Sydney Olympic Park (WTP)	Larry Clark joined the ER inspection. Observations of WMD compressor noise with silencer fitted and delivery of concrete for shotcreting; discussion on SOP weekly program and environment issues meetings with AFJV.
	No actions arising.	
11 April	Burwood North (CTP)	Larry Clark attended the ER inspection to view the location and setup of the harmonic sub; grout plant installation and compressors in the acoustic shed; WTP compressor size and location.
	No actions arising.	
11 April	Rosehill Services Facility (WTP)	Larry Clark witnessed retrieval of GBNV monitor from Newington Public School
	Report of results to be provided.	

¹ Sydney Metro West Concept and Stage 1 (SSI 10038), *Sydney Metro West Stage 2: Bays to Sydney CBD (SSI 19238057)* shown in italics

24 April	Clyde Dive and Rosehill (WTP)	Larry Clark attended the ER inspection and conduction joint noise monitoring with GLC of the Clyde Dive electric tower crane installation in the ATC premises.
	Additional joint noise monitoring of crane to be done during its operation.	
30 April	Hunter Street and Pymont sites	Dave Anderson joined the ER inspection (DPHI reps also in attendance)
	Recent monitoring data requested.	

Meeting		
Date	With	Purpose
3 April	Sydney Metro, Quickway, ER	Telstra cable pulling scope
9, 16, 23, 30 April	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
10, 23, 30 April	Sydney Metro, JCGJV, ER	Discussion of AA and ER comments on noise and vibration documents, ETP
2, 8, 15, 22, 29 April	AFJV, Sydney Metro, ER	Environment meeting, CTP
3, 17 April	Sydney Metro, GLC, ER	Environment meeting, WTP
8 April	DPHI, ER	Monthly meeting with DPHI compliance
22 April	Sydney Metro, GLC, ATC	Fortnightly works status
18 April	Sydney Metro, Quickway, ER	Westmead Utilities Scope – Environment meeting

Noise and vibration issues, incidents, recommendations	
Date	Contract / Location and details
9 April	NCR raised by Sydney Metro Environment team against the avoidable complaint by resident of Bailey St where it was found that the resident was eligible for alternate accommodation (via WUR scope) but did not receive the offer. Resident was offered alternative accommodation for following out-of-hours shifts which he accepted.
10 April	NCR, self-reported by GLC – MCoA D37 c(i) and EPL Condition L5.3 – OOH without an approved permit. Remaining activities reviewed for permit requirements as corrective action.
13 April	NCR, self-reported by GLC – implementation of DNVIS: WTP Westmead AAMs not offered in accordance with DNVIS. Note that monitored GBNV levels were less than predicted in the DNVIS so impact was low. Construction crew toolboxed and remaining activities reviewed for mitigation requirements as corrective action.
<i>Trial continuing</i>	<i>Conditional AA endorsement for OSOM deliveries at Pymont East – JCG investigating F&R mitigation.</i>
Ongoing	Ground-borne noise and vibration from TBM tunnelling on CTP: monitoring report for Queen Street indicates PPV levels higher than predictions. AFJV investigating.

Examples of good practice in noise and vibration management	
Date	Contract / Location and details
April	GLC self-reported two NCRs (see above), indicative of good observation, investigation, and action by environment staff.

Ongoing and upcoming noise and vibration risks	
ETP:	
<ul style="list-style-type: none"> Initial excavation (without acoustic sheds) at Pymont sites, plus OOH deliveries with tower crane at Pymont East Ongoing structural demolition at Hunter Street sites 	
CTP:	
<ul style="list-style-type: none"> Tunnelling ground borne noise and vibration Commencement of tunnelling support at Burwood North, including operation of Water Treatment Plant (outside acoustic shed) and Grout plant (inside acoustic shed), and harmonic sub (outside acoustic shed) once TBM re-launches. 	

WTP:

- Tunnelling ground borne noise and vibration

WUR:

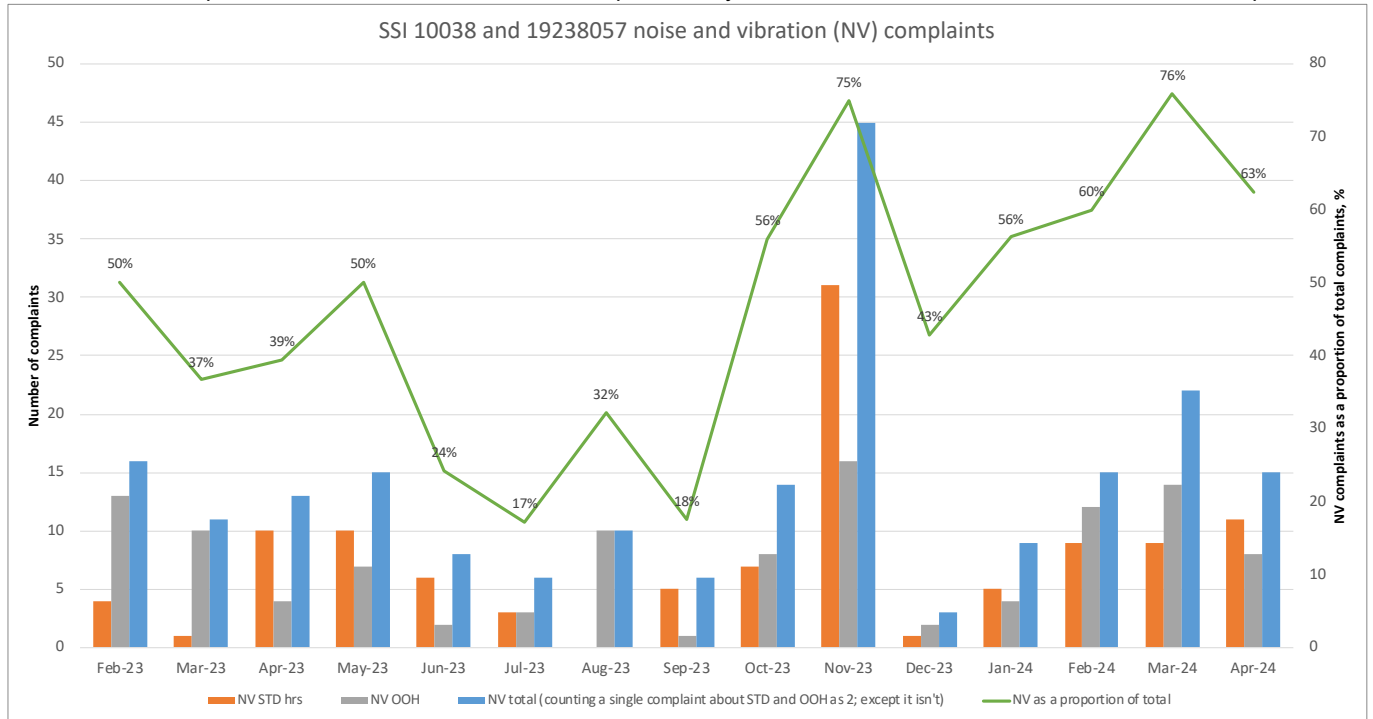
- Telstra cable pulling works planned to commence late May, with cumulative impacts to be managed noting utilities (e.g. Telstra) are not bound by Sydney Metro schedules or CoAs. Also, some work sites are outside WUR premise.

Noise and vibration complaints

15 noise and vibration complaints attributed to Sydney Metro during April:

- 5 from Westmead, 3 of which may not be related to Sydney Metro works²
- 2 relating to the Westmead Utility Relocation works, including 1 about notification
- 3 from Pyrmont, from stakeholders about standard hours noise
- 2 from Hunter St, from businesses about daytime noise and respite hours
- 2 relating to CTP tunnelling activities as TBMs pass through Five Dock West and cross passages are excavated beneath homes
- 1 from WTP tunnelling activities

Note: The chart shows noise and vibration (NV) complaints in standard hours and out of hours (OOH) periods. Some complaints relate to both time periods so the total number of NV complaints may be less than the sum of standard and OOH complaints.



² These would normally be classified as “not related to Sydney Metro” and would therefore be excluded from our analysis.