

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	March 2025	Authorisation:	Dave Anderson, Acoustics Advisor
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Acoustics Advisors		
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Document review		
Document	Reviewed	Endorsed / approved
Central Tunnelling Package (CTP), AFJV		
Weekly Noise Reports 14/2/25, 22/2/25	Y	N/A
2024 Q4 (Oct – Dec) Stage 1 D51 Outcomes of Community Consultation Report	Y	N/A
Burwood North DNVIS Rev 16	Y	5 March 2025
Western Tunnelling Package (WTP), GLC		
Attended noise monitoring reports (2) for crane loadout of spoil outside acoustic shed	Y	N/A
Main DNVIS Rev S	Y	25 March 2025
Noise and Vibration Monitoring Report July 2024 to January 2025	Y	Under review
Eastern Tunnelling Package (ETP), JCG¹		
Hunter Street DNVIS addendum – OOH work during and after removal of shed	Y	3 April 2025
Pymont DNVIS addendum – nozzle excavation at Pymont East	In progress	
2024 Q4 (Oct – Dec) Stage 2 D37 Outcomes of Community Consultation Report	Y	N/A
Weekly realtime monitoring data to 23 March '25		N/A

Inspections / site visits		
Date	Location(s)	Details
4 March	Pymont	Dave Anderson attended part of ER inspection (11am to noon)
		No issues raised. Listened to ground borne noise from shaft excavation at 60 Union Street, including in the basement car park and at the Pharmacy. Noted the gantry crane alarm at Pymont West had recently been changed to a different tone.
12 March	CTP North Strathfield, Burwood North, Five Dock, The Bays.	Larry Clark OOHW inspection.
		Ongoing sounding of tonal beeping alarm on EWP reported as broken down in the station box / tunnel at BWT. AFJV advised on 13 March that the night shift supervisor advised that the EWP at BWT had an electrical fault that caused the alarm to trigger, the EWP was tagged out and is being repaired by the mechanical team; AFJV would ensure that the EWP is fixed before using again Repetitive, impulsive noise of diaphragm pump in the station box / tunnel audible through the open shed doors at residential receiver locations, Five Dock east. AFJV advised on 13 March that AFJV would implement the same noise mitigation measures that were used around the pump at BWT; these measures would be installed 14 March, and the pump should not operate tonight, 13 March.
13 March	Pymont and Hunter Street	Dave Anderson OOHW inspection (9 to 1130pm), JCG in attendance
		Pymont East: gantry crane tonal alarm just audible. Intermittent hammering in shed until 10pm (breaking up oversize rock). Delivery truck at 10pm. Pymont West: testing gantry crane and low noise works. Hunter Street East: issue raised with excessively loud broadband alarm on excavator operating on site.

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 March	Pymont	Dave Anderson attended to witness JCG ground borne noise monitoring
	Ground borne noise monitoring in entrance lobby of 137 Pymont Street during rockbreaking at Pymont West with 75t machine: instantaneous levels up to 55dBA with perceptible vibration. Noted a spoil truck with noisy exhaust – since removed from site.	
26 March	WTP Clyde Dive	Larry Clark joined ER inspection.
	Discussions on demolition of acoustic shed scheduled for May, and acoustic issues associated with movement of compressors and fans from the shed to near the grout plant, and generators to replace mains power. Observed quiet CFA piling at the HV protection slab adjacent to ATC stables, and discussed pile breakback to be vac truck and water jet while concrete is green, rather than noisier jackhammering; and vibration monitoring at ATC stables: levels of 1-2mm/s well below adopted trigger of 5mm/s. Discussed standard hours only removal of pavement of Unwin Street, with no High Noise Works planned before 8.30am.	
27 March	CTP Sydney Olympic Park, North Strathfield, The Bays.	Larry Clark joined ER inspection.
	Transitional services at these sites; no noise or vibration issues.	

Meeting

Date	With	Purpose
3, 10, 31	AFJV, Sydney Metro, ER	Environment meeting, CTP
10, 24 March	Sydney Metro, GLC, ATC	Fortnightly works status
4, 11, 18, 25 March	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
5 March	Sydney Metro, GLC, ER	Environment meeting, WTP
10 March	DPHI, ER	Monthly meeting with DPHI compliance
27 March	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals

Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
12 March	CTP BWT and FDK – see OOHW AA inspection notes above.

Examples of good practice in noise and vibration management

Date	Contract / Location and details
26 March	Use by GLC at Clyde Dive of quiet CFA piling, and vac truck and water jet to breakback piles instead of noisier jackhammering.

Ongoing and upcoming noise and vibration risks

ETP:

- Pymont: Cavern excavation continuing 24/7, spoil haulage from Pymont East now underway 24/7 (under an EPL variation), TBM tunnelling progressing and cross passage excavation underway.
- Hunter Street: shaft excavation and piling works by day, OOH shed removal and ongoing tunnelling support works at Hunter Street East

CTP:

- Demob and demolition at Five Dock. Managed by comms notifications and consultation.

WTP:

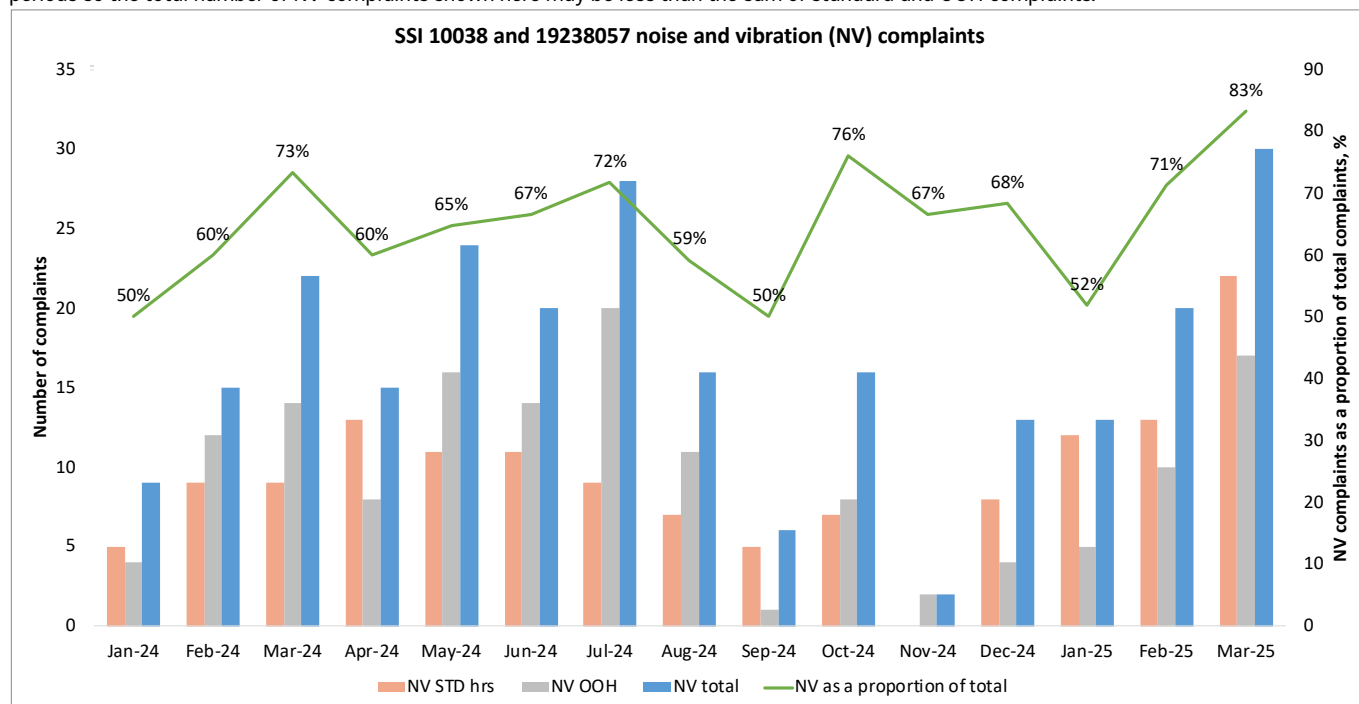
- Acoustic shed demolition, replacement of mains power with generators; relocation of fans and compressors to grout plant location. Being managed by predictive modelling and consideration of noise mitigation measures.

Noise and vibration complaints

30² noise and vibration complaints attributed to Sydney Metro during March (19 of which were from Pyrmont):

Location / activity	Standard hours	Out of hours	Both standard and out of hours
Westmead	[1] ³	1	
Parramatta			
Clyde / Rosehill		1	
Sydney Olympic Park			
North Strathfield			
Burwood North		1	
Five Dock	3		
The Bays			
Pyrmont	7 [8] ⁴	4 [5] ⁵	6
Hunter Street	1		2
Tunnelling ETP CTP WTP		1	
Total	11 [13]	8 [9]	8

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 shown here may be less than the sum of standard and OOH complaints.



² 27 noise and vibration complaints were attributed to Sydney Metro in the monthly complaint report but 3 other complaints were identified by the AA to be noise and/or vibration related. These are shown in [square brackets] in the table and included in the totals shown in the chart.

³ Complaint ID 6111 re driver behaviour mentions noise from trucks braking

⁴ Complaint ID 6110 re long term alternative accommodation, which is due to noise / vibration

⁵ Complaint ID 6122 re traffic / parking mentions noise from a reversing truck