

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	October 2023	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	7 November 2023		

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			
AFJV approved OOHW Permits	Y	NA	
North Strathfield DNVIS Rev 6	Y	17/10/2023	
System Wide (Tunnelling) DNVIS Rev 6	Y	11/10/2023	
Western Tunnelling Package (WTP), GLC			
Project-wide DNVIS Rev 6	Under review		
6-monthly monitoring report	Y	26/10/2023	
Westmead sewer relining OOH DNVIS rev B	Y	2/11/2023	
Westmead Utilities Relocation (WUR), Quickway			
Detailed Noise and Vibration Impact Statement (DNVIS) Rev 2	Y	6/11/2023	
Noise and Vibration Management Sub-Plan (CNVMP) Rev 3	Y	23/10/2023	
Construction Environmental Management Plan (CEMP) Rev 3	Y	N/A	
Eastern Tunnelling Package (ETP), JCG¹			
Tunnelling DNVIS Rev 5	Y	20/10/2023	
Pymont Station DNVIS rev 3	Y	2/11/2023	
Pymont Station eastern construction site – temporary shaft excavation: Consistency Assessment	Y	N/A	

Inspections / site visits		
Date	Location(s)	Details
10 October	Pymont, Hunter Street	Dave Anderson attended ER inspection. No issues.
10 & 12 October	Radisson Hotel, Hunter Street	Dave Anderson witnessed groundborne noise and vibration (and associated monitoring) during cavern excavation near the hotel. <i>Notes: Groundborne noise audible, consistent with predictions in DNVIS.</i>
18 October	CTP Five Dock	Larry Clark verification of complaint ID 5016 follow up monitoring. <i>Notes: No CTP activity noise heard or measured in the vicinity of the complainant's residence.</i>
24 October	Pymont, Hunter Street	Dave Anderson attended ER inspection. <i>Notes: Discussed opportunities to minimise noise from shaking the piling auger at Pymont East</i>
24 October	CTP North Strathfield and Burwood North	Larry Clark OOH inspection <i>Notes: Respite night - no works observed – respite provided.</i>
26 October	Westmead (WTP and Quickway), CTP: Sydney Olympic Park, North Strathfield, Burwood North, Five Dock	Dave Anderson accompanied DPE compliance on OOH inspection <i>Notes:</i> <ul style="list-style-type: none"> Westmead: compressor noise audible, discussed with WTP. Good practices observed by Quickway during OOH potholing (see next page) SOP, NST, BWT, FDK respite in place.

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

	<ul style="list-style-type: none"> FDK East shed: ventilation noise noticeably quieter than previous inspections. Music noise clearly audible at residential boundary (CTP to toolbox team) 	
30 October	WUR Westmead	David Hanson OOH inspection of potholing
	Notes: Good practices observed (see below)	

Meeting		
Date	With	Purpose
3, 10, 17, 24, 31 October	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
4, 9, 18, 23, 30 October	AFJV, Sydney Metro, ER	Environment meeting, CTP
4, 18 October	Sydney Metro, GLC, ER	Environment meeting, WTP
9 October	DPE, ER	Monthly meeting with DPE compliance
16 October	Sydney Metro, JCGJV, ER	Discuss tunnelling DNVIS
16 October	Sydney Metro, GLC, ATC	Fortnightly works status
18 October	AFJV, Sydney Metro	Monitoring program informal discussion
26 October	DPE, Sydney Metro, ER, AA	Monthly meeting with DPE
31 October	Sydney Metro, JCGJV, ER	Discuss Pyrmont DNVIS
1 November	Sydney Metro, GLC	Compressor noise at Westmead

Noise and vibration issues, incidents, recommendations	
Date	Contract / Location and details
Ongoing	OOH ventilation noise at Five Dock exceeding NML – AFJV updating DNVIS
Ongoing	Feasible and reasonable mitigation under review

Examples of good practice in noise and vibration management	
Date	Contract / Location and details
26 October	Quickway, Westmead: low noise equipment (electric concrete saw; solar lighting); deployment of noise blankets; good crew behavioural practices.
30 October	Quickway, Westmead: as above, plus opportunities for reducing noise from vac trucks and traffic control vehicles discussed with Quickway.

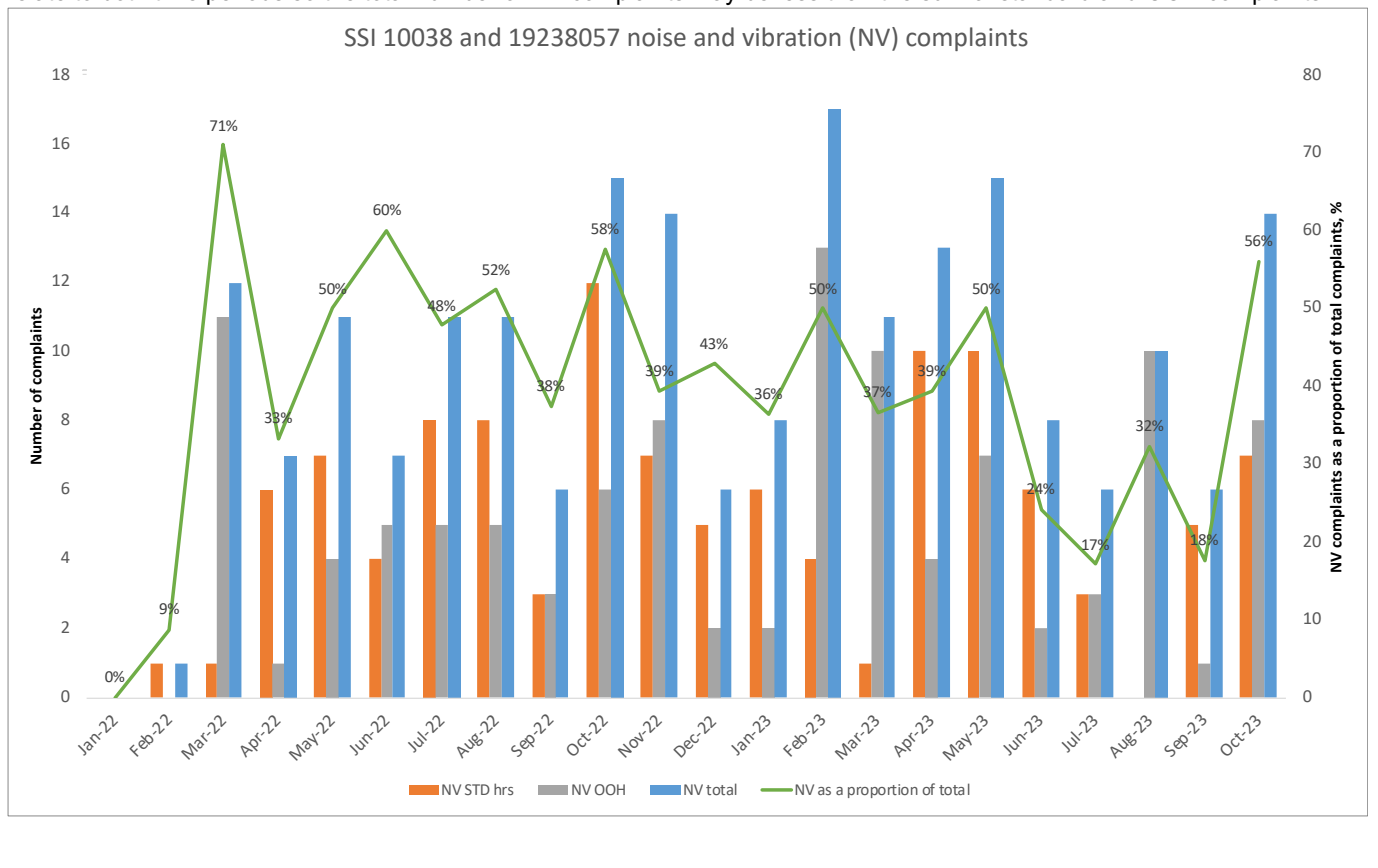
Ongoing and upcoming noise and vibration risks	
ETP:	
<ul style="list-style-type: none"> Initial excavation starting soon at Pyrmont sites Tunnelling of the Hunter Street cavern and turn-back tunnels continuing, including 24/7 works. North heading commenced in October. Structural demolition starting soon at Hunter Street sites 	
CTP:	
<ul style="list-style-type: none"> TBM tunnelling approaching Five Dock 	
WTP:	
<ul style="list-style-type: none"> Roadheader excavation at Westmead and Clyde 	

Noise and vibration complaints

14 noise and vibration complaints attributed to Sydney Metro during October:

- 2 from Westmead regarding OOH work
- 1 from Sydney Olympic Park regarding OOH work
- 1 from Burwood North regarding standard hours work on the southern site
- 1 from Five Dock regarding OOH work
- 3 from TBM tunnelling in Rodd Point (CTP), including OOH
- 6 from Pyrmont², 5 regarding demolition noise from the Western site and 1 regarding OOH work

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.



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