

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	June 2023	Authorisation:	Dave Anderson, Acoustics Advisor
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Date of issue:	7 July 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		
Sydney Olympic Park DNVIS Rev 6	Under review	
Five Dock DNVIS Rev 9	Under review	
Burwood DNVIS Rev 8 – addendum	Y	16/6/23
Burwood DNVIS Rev 9	Under review	
The Bays TBM support DNVIS Rev 6	Under review	
Western Tunnelling Package (WTP), GLC		
Westmead to Sydney Olympic Park DNVIS Rev 5	Under review	
Parramatta discharge line DNVIS Rev A	Under review	
Westmead acoustic shed OOH cladding	Y	3/7/23
Eastern Tunnelling Package (ETP), JCG¹		
<i>DNVIS for The Bays Rev 0</i>	Y	30 May 2023
<i>DNVIS – Tunnelling rev 0 (Hunter Street cavern scope only)</i>	Y	27 June 2023

Inspections / site visits

Date	Location	Details
1 June	CTP Five Dock	David Hanson joined the ER inspection
6 June	ETP Pyrmont, Hunter St and Bays	Dave Anderson joined ER and Independent Auditor inspection
8 June	CTP Five Dock, Burwood North	David Hanson joined the ER inspection
14 June	CTP Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays	Dave Anderson inspected OOH operations
14 June	WTP Westmead, Parramatta	Dave Anderson inspected OOH operations
28 June	WTP Parramatta, Westmead, Clyde Dive	Larry Clark joined the ER Inspection
29 June	CTP Five Dock	Larry Clark joined the ER Inspection

Meeting

Date	With	Purpose
2 June	<i>Wolf Peak, Independent Audit</i>	<i>Independent audit on ETP scope</i>
2 June	ER, DPE	Discuss noise mitigation
8 and 14 June	Sydney Metro, AFJV	Burwood North DNVIS addendum
6, 13, 20, 27 June ¹	<i>Sydney Metro, JCGJV, ER</i>	<i>Weekly environment meeting, ETP</i>
14, 28 June	Sydney Metro, GLC, ER	Environment meeting, WTP
5, 13, 19, 26 June	AFJV, Sydney Metro, ER	Environment meeting, CTP
12, 26 June	Sydney Metro, GLC, ATC	Fortnightly works status
19 June	DPE, Sydney Metro, ER	Monthly meeting with DPE compliance
22 June	DPE, Sydney Metro, ER, AA	Monthly meeting with DPE
27 June	<i>Sydney Metro, ER, JCGJV</i>	<i>Tunnelling DNVIS briefing</i>

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

Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
1 June	CTP Five Dock. AFJV to develop a procedure around opening and closing shed doors, daytime and OOH. AFJV to investigate whether tonal movement alarm on gantry crane can be replaced and volume turned down. AFJV to complete installation of hoarding at FDK West.
8 June	CTP Five Dock. AFJV report shed vent fans are too loud on north façade. Additional silencers ordered. Burwood North noise and vibration monitor locations to be reviewed and potentially relocated closer to currently potentially most affected residents. Vibration monitor to be reinstated (dislodged when inspected). AFJV to complete installation of hoarding at FDK West (supply chain delays re: galvanising).
28 June	GLC to arrange AA attendance to witness D-wall construction at Parramatta to observe vibration management approach and monitoring.

Examples of good practice in noise and vibration management

Date	Contract / Location and details
8 June	FDK West - Operator loading spoil close to truck to minimise noise.
14 June	Westmead <ul style="list-style-type: none">GLC treating impact drivers as highly noise intensive, even though they don't fall strictly into the definition in the approval.Dozer fitted with squawker that adjusts output level based on ambient noise
20 June	<i>Pyrmont – JHCG have reached agreement with a recording studio, located close to the works, to be temporarily relocated to alternative premises</i>

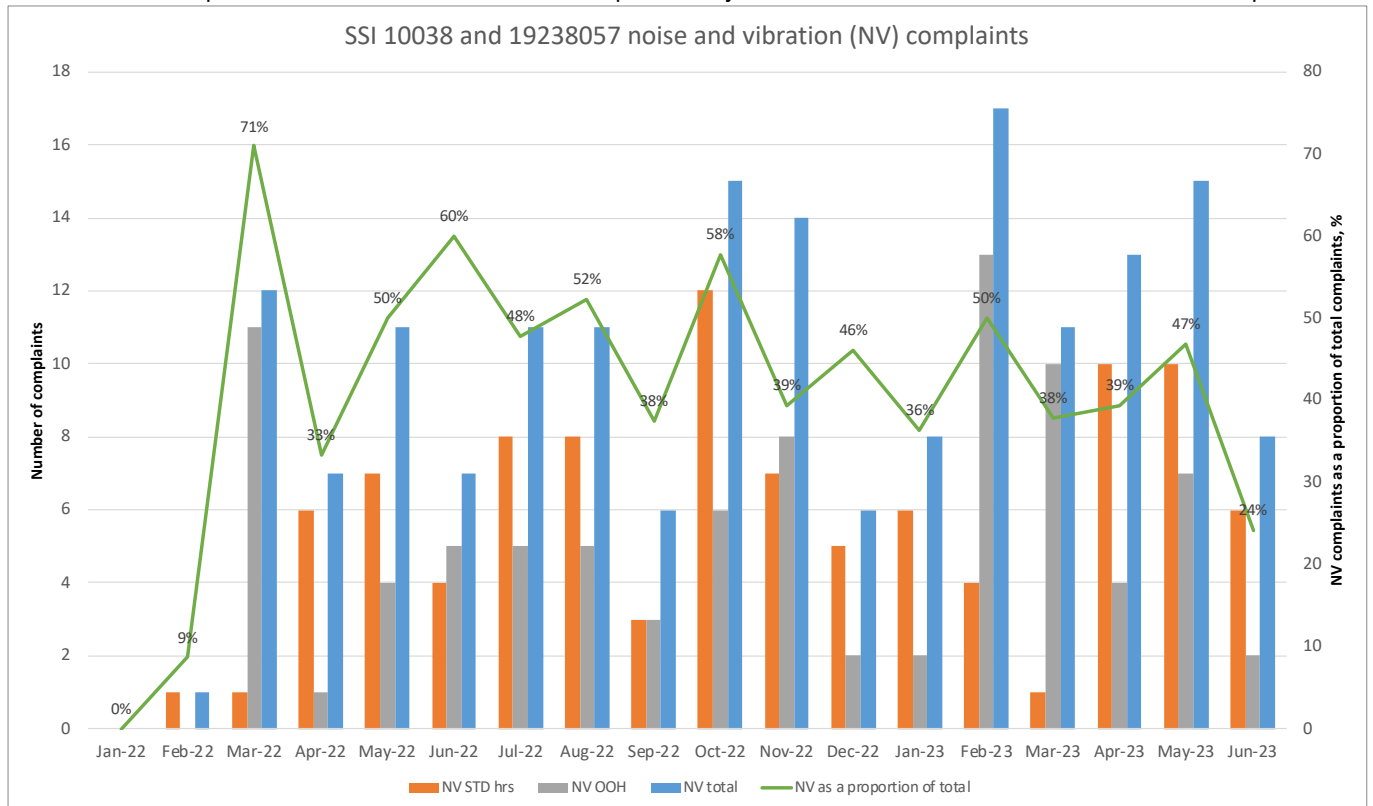
Notes

Date	Contract / Location and details
10 to 19 July incl	Dave Anderson on leave, Alternate AAs Larry Clark and David Hanson covering
<i>From late June</i>	<i>Tunnelling of the Hunter Street cavern now underway, including 24/7 works.</i>

Noise and vibration complaints

8 noise and vibration complaints attributed to Sydney Metro during June: 2 from Westmead, 1 from Sydney Olympic Park, 1 from North Strathfield, 3 from Five Dock and 1 from Hunter Street².

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.



Ongoing and upcoming noise and vibration risks

- Vibration from diaphragm wall excavation at Parramatta impacting heritage buildings (incl Roxy Theatre).
- Ongoing management of noise impacts at Five Dock and Burwood North.
- Work ramping up at Pyrmont and Hunter Street

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