

ACOUSTICS ADVISOR MONTHLY REPORT SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	May 2023	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	7 June 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 7	Under review	
Burwood DNVIS Rev 9	Under review	
The Bays TBM support DNVIS	Under review	
OOHW 283- North Strathfield traffic signals	Y	8/5/23
OOHW 263- Burwood asphalt works	Y	19/5/23
OOHW-301 North Strathfield signage	Y	25/5/23
Western Tunnelling Package (WTP), GLC		
Activity-specific DNVIS for tunnelling support at Westmead Rev C	Y	25/5/23
CNVMP Rev E	Y	3/5/23
Noise monitoring reports for ventilation fan, Clyde Dive site	Y	NA
Eastern Tunnelling Package (ETP), JCG¹		
<i>DNVIS for The Bays Rev B</i>	<i>Under review</i>	

Inspections / site visits

Date	Location	Details
10 May	WTP Rosehill, Clyde MSF	Larry Clark joined the ER inspection
11 May	CTP Sydney Olympic Park, Burwood North, The Bays	Larry Clark joined the ER inspection
17 May	WTP Parramatta, Westmead, Clyde Dive	Larry Clark and David Hanson, Alternate Acoustics Advisor, joined the ER inspection.
18 May	CTP Five Dock, North Strathfield	Larry Clark and David Hanson, Alternate Acoustics Advisor, joined the ER inspection.
18 May	CTP Burwood North	Dave Anderson inspected OOH operation together with David Hanson and Larry Clark (AAs) and Andris McLean (AFJV)
18 May	WTP Westmead, Parramatta, Clyde Dive; CTP Sydney Olympic Park, North Strathfield, The Bays; ETP Hunter Street	Larry Clark inspected OOH operation
18 May	CTP Five Dock	Larry Clark inspected OOH operation together with David Hanson and Andris McLean (AFJV)

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

Meetings		
Date	With	Purpose
2, 9, 16, 23, 30 May ¹	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
3, 17, 31 May	Sydney Metro, GLC, ER	Environment meeting, WTP
1, 8, 15, 22, 29 May	AFJV, Sydney Metro, ER	Environment meeting, CTP
1, 15 May	Sydney Metro, GLC, ATC	Fortnightly works status
1 May	Sydney Metro, GLC, ER	Westmead tunnelling support briefing
5 May	CTP Environment Team	Review generator monitoring data
8 May	DPE, Sydney Metro, ER	Monthly meeting with DPE compliance
16 May	Sydney Metro, ER	Five Dock DNVIS discussion
22 May	Sydney Metro, CTP	Five Dock DNVIS discussion
23 May	Sydney Metro, AFJV, resident	On line meeting with resident at Five Dock
25 May	DPE, Sydney Metro, ER, AA	Monthly meeting with DPE post approvals and compliance
31 May	DPE compliance, ER	CTP DNVISs

Noise and vibration issues, incidents, recommendations	
Date	Contract / Location and details
18 May	<p>Five Dock west hoarding along Great North Road frontage noted as not being consistent with description and modelling in DNVIS. AFJV to investigate installing noise mats on ATF fence panels.</p> <p>Transformer shed at Five Dock west estimated to shield noise monitor by about 10dBA. Options to address this effect discussed. The microphone was moved further away from the influence of the shed on Friday 26 May.</p> <p>Rapid lift doors were activated at the Five Dock east shed. These were estimated to reduce noise levels outside the shed by around 10dBA. AFJV agreed at meeting 29 May to investigate implementing rules for doors opening and shutting.</p> <p>Percussion drilling at North Strathfield considered to be Highly Noise Intensive Work. Time restrictions and respite to be implemented. A loud non-tonal (“squawker”) alarm was observed on an excavator at North Strathfield. AFJV to investigate reducing the level. A street sweeper was observed to be idling whilst parked outside a residence at North Strathfield. Driver notified by AFJV to turn off engine.</p>
18 May	Excavator observed operating OOH in Burwood North station box. NCR018 raised.
18 May	Shed door observed to be open during OOH works at The Bays.
May	Work at several CTP sites has progressed beyond the scope documented in approved DNVISs. Relevant DNVISs are currently being updated and reviewed.

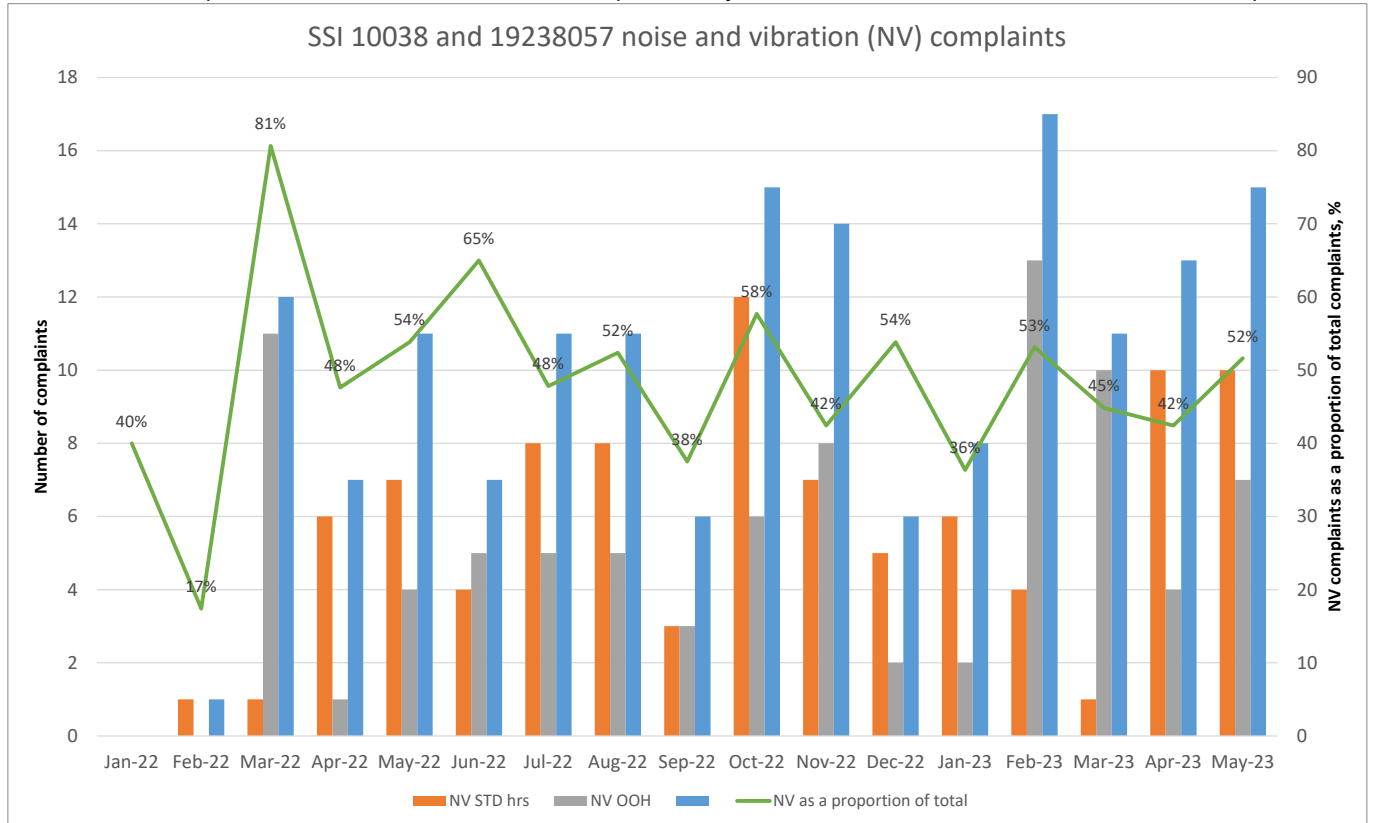
Examples of good practice in noise and vibration management	
Date	Contract / Location and details
10 May	WTP Auger piling operator at Rosehill MSF noted to be maximising spinning to remove material, which minimised loud banging from the usual practice of shaking auger back and forth
17 May	WTP Noise champion at Westmead, Sibgha Jillani, thoroughly covered noise issues in the site-specific induction, and accompanied ER and AA on inspection. He appeared to clearly know his role.
30 May	JCG taking proactive steps to manage potential impacts on 2 recording studio premises near the Pyrmont Station sites.

Notes	
Date	Contract / Location and details
1 to 23 June	Larry Clark (Alternate AA) on leave. Dave Anderson (AA) and David Hanson (alternate AA) covering.
June	Tunnelling of the Hunter Street decline is now occurring 24/7.

Noise and vibration complaints

15 noise and vibration complaints attributed to Sydney Metro during May: 1 from Westmead, 2 from Burwood North, 5 from Five Dock, 4 from Pymont and 3 from Hunter Street¹. The Acoustics Advisor requested further details about 3 complaints during May.

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.
- Ongoing management of noise impacts at Five Dock and Burwood North.
- Site establishment and demolition work ramping up at Pymont and Hunter Street