

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	September 2024	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	7 October 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 Reports 30/8/24, 6/9/24	Y	N/A	
DNVIS Sydney Olympic Park Revision 11	Y	5/9/2024	
DNVIS The Bays Revision 8	Y	30/9/2024	
Western Tunnelling Package (WTP), GLC			
Noise and Vibration Monitoring Report January to July 2024	Y	Under review	
DNVIS Priddle Street and Hawkesbury Road Local Area Works	Y	25/9/2024	
Eastern Tunnelling Package (ETP), JCG¹			
Weekly realtime monitoring data for periods ending: 2, 9, 16, 23 and 30 September	Y	N/A	

Inspections / site visits		
Date	Location(s)	Details
3 September	Hunter Street and Pyrmont sites	Dave Anderson attended ER inspection.
		No issues raised. Tower crane removed from Pyrmont East, crane base to be demolished then gap in deck to be filled.
19 September	Burwood North, North Strathfield	Larry Clark OOH inspection. Sydney Metro and AFJV environment representatives in attendance.
		Good crew behaviours (BWT and NST). Roller door to Burton Street on northern side of Burwood North acoustic shed open after 10pm due to a break down of the electric motor powering the door. AFJV subsequently advised that this was fixed as soon as parts could be supplied and fitted.
24 September	Pyrmont East	Dave Anderson attended to witness OOH monitoring by JCG.
		Noted some gaps in the acoustic shed that remain to be closed. Tonal alarm and squeaky brakes noted on forklift handling OOH deliveries (this was replaced within a day or two).
26 September	Sydney Olympic Park, North Strathfield, Burwood North	Larry Clark joined ER inspection.
		CTP's tower crane at SOP was not operational but the noise treatments, crane position and orientation observed and intended crane operation discussed. CTP and WTP coordination of respite periods for Highly Noise Intensive Works also discussed. Proposed OOH concrete pours at NST, and noise treatments being considered, discussed.

Meeting		
Date	With	Purpose
2, 9, 16, 23, 30 Sept	AFJV, Sydney Metro, ER	Environment meeting, CTP
9, 23 September	Sydney Metro, GLC, ATC	Fortnightly works status
3, 10, 17, 20 Sept	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
9 September	DPHI, ER	Monthly meeting with DPHI compliance
11, 18 September	Sydney Metro, GLC, ER	Environment meeting, WTP

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

25 September	Sydney Metro, JCG, ER	Meeting to discuss previous night's OOH inspection
27 September	Sydney Metro, JCG, ER	Meeting to discuss comments on noise monitoring reports
	(DPHI, Sydney Metro, ER)	(Monthly meeting with DPHI post-approvals cancelled this month)

Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
19/9/2024	Issue: Roller door to Burton Street on northern side of AFJV's Burwood North acoustic shed open after 10pm due to a break down of the electric motor powering the door. AFJV subsequently advised that this was fixed as soon as parts could be supplied and fitted.

Examples of good practice in noise and vibration management

Date	Contract / Location and details
	AFJV noise treatments of diesel tower crane at SOP prior to crane installation (noise levels to be confirmed).
1 October	Spoil trucks operating on Hunter Street observed driving considerately, not using horns or engine brakes and with no obvious defects in manufacturer noise mitigation (eg exhaust mufflers).

Ongoing and upcoming noise and vibration risks

ETP:	<ul style="list-style-type: none"> Demolition at Hunter Street now at (and below) street level, leading to higher noise impacts for some nearby receivers. Shaft excavation and shed construction at Pyrmont West Cavern excavation underway 24/7 at Pyrmont East
CTP:	<ul style="list-style-type: none"> Cross passage ground borne noise and vibration. Being managed by door knocking by comms. Upcoming TBM dismantle and removal at Sydney Olympic Park. Noise levels to be verified as works commence.
WTP:	<ul style="list-style-type: none"> OOH concrete deliveries at CLJ. Being managed by application of noise treatments, which are to be verified as deliveries commence. Unwin Street works adjacent to RTA heritage façade. Management measures being discussed.

Noise and vibration complaints

6 noise and vibration complaints attributed to Sydney Metro during September:

Location / activity	Standard hours	Out of hours	Standard and out of hours
Westmead			
Parramatta			
Clyde / Rosehill			
Sydney Olympic Park			
North Strathfield			
Burwood North		1	
Five Dock			
The Bays			
Pyrmont	4		
Hunter Street	1		
Tunnelling			
Total	5	1	0

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.

