

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	August 2024	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	6 September 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			
Bi-annual monitoring report January to June 2024	Y	6/8/2024	
Weekly Noise Reports 19/7/24, 26/7/24, 2/8/24, 9/8/24, 16/8/24 and 23/8/24	Y	N/A	
GBNV monitoring 1/84 Concord Lane	Y	N/A	
DNVIS Sydney Olympic Park Rev 11	Y	Under review	
Western Tunnelling Package (WTP), GLC			
DNVIS, Westmead to Sydney Olympic Park, Rev P	Y	N/A	
DNVIS, Westmead to Sydney Olympic Park, Rev Q	Y	27/8/2024	
Eastern Tunnelling Package (ETP), JCG¹			
Weekly realtime monitoring data for periods ending: 5, 12, 19, 26 August	Y	N/A	
GBNV monitoring report for 65-67 Edward Street	Y	N/A	
Report on plant sound power level checks from 23 August	In progress		
Report on noise monitoring of dust scrubber vent system on 23 July	Y	N/A	

Inspections / site visits		
Date	Location(s)	Details
5 August	Pymont East	Dave Anderson attended OOH inspection. DPHI, Sydney Metro and JCG representatives in attendance.
		Witnessed residual noise from scrubber ventilation fan outlet on eastern side of the acoustic shed and spoil truck arrival, loading and departure.
15 August	Pymont East and West	Dave Anderson attended to witness OOH monitoring by JCG.
		Witnessed general operation of Eastern site, no works in progress at West.
20 August	The Bays, Five Dock, Burwood North	Larry Clark OOH inspection. Sydney Metro and AFJV environment representatives in attendance.
		No noise or vibration issues arising. New generator operating at The Bays inaudible in Roberts Street. Tunnelling support activities not louder in East Street at Five Dock after removal of B Class hoarding. Photo evidence sighted of noise controls for high noise works. Good crew behaviours observed.
22 August	Burwood North, Five Dock, The Bays	Larry Clark joined ER inspection. DPHI representatives in attendance at The Bays
		No noise or vibration issues arising. Location of new generator operating at The Bays sighted and confirmed.
23 August	Pymont East	Dave Anderson met with JCG to discuss and inspect progress with completion of the acoustic shed and decking.
		Noted generator previously located on Union Street had been removed. Witnessed collection of GBNV monitoring equipment from 65-67 Edward Street.
28 August	Hunter Street and Pymont sites	Dave Anderson joined ER inspection.
		Inspection included ground floor and basement of Skinners Hotel where finishes had been removed to reveal underlying structure. No noise or vibration issues raised.

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

28 August	Rosehill, Clyde Dive, Metro Stabling Facility east and west	Larry Clark joined ER inspection.
	No noise or vibration issues arising. Discussion at Clyde Dive on ongoing arrangements for future OOH concrete deliveries. No vibration perceived in structures from roadheader around 33m away.	
29 August	Westmead, Parramatta, Sydney Olympic Park	Larry Clark OOH inspection. Sydney Metro and GLC environment representatives in attendance.
	No noise or vibration issues arising. No compressor air release noise at Westmead and no vibration perceived in structures. Hydraulic hammering of nozzles at Parramatta not audible at ground level 45 Macquarie Street. TBM disassembly audible occasionally but not measurable at ground level 2B Figtree Drive.	

Meeting

Date	With	Purpose
5, 12, 19 August	AFJV, Sydney Metro, ER	Environment meeting, CTP
5 August	JCG, ER	Discussion re dust scrubber ventilation system
6 August	AFJV, Sydney Metro, ER	Discuss close out of bi-annual monitoring report comments
12, 26 August	Sydney Metro, GLC, ATC	Fortnightly works status
6, 13, 20, 27 August	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
12 August	DPHI, ER	Monthly meeting with DPHI compliance
7, 21 August	Sydney Metro, GLC, ER	Environment meeting, WTP
22 August	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals

Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details

Examples of good practice in noise and vibration management

Date	Contract / Location and details
	AFJV tunnelling north of North Strathfield at shallow depths – few complaints attributed to comprehensive door knocking ahead of TBM.

Ongoing and upcoming noise and vibration risks

ETP:	<ul style="list-style-type: none"> Demolition at Hunter Street now close to street level, leading to higher noise impacts for some nearby receivers. Shaft excavation, including hammering 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 Upcoming TBM breakthrough, dismantle and removal at Sydney Olympic Park.
WTP:	<ul style="list-style-type: none"> TBM tunnelling Rosehill to Westmead

Noise and vibration complaints

16 noise and vibration complaints attributed to Sydney Metro during August:

- 1 from Westmead
- 2 from Parramatta
- 2 from Sydney Olympic Park
- 1 from Five Dock
- 1 from Pyrmont
- 2 from Hunter St
- 6 from CTP tunnelling activities
- 1 from WTP tunnelling activities

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.

