

ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST (SSI 10038 and SSI 19238057¹)

For period:	December 2024	Authorisation:	Dave Anderson, Acoustics Advisor
Prepared by:	Dave Anderson		
Date of issue:	15 January 2025		

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 9/11/24, 29/11/24, 6/12/24, 13/12/24	Y	N/A	
Western Tunnelling Package (WTP), GLC			
DNVIS Westmead to Sydney Olympic Park Rev R (6.7)	Y	13 December 2024	
APX Hotel TBM Groundborne noise and vibration monitoring results	Y	N/A	
DNVIS Piling works on Unwin Street	Y	Under review	
Eastern Tunnelling Package (ETP), JCG¹			
<i>Hunter Street DNVIS addendum for OOH platform completion and use Rev 7</i>	Y	19 December 2024	
<i>Detailed Noise and Vibration Impact Statement - Pyrmont Station: Rev 5</i>	Y	Under revision	
<i>Weekly realtime monitoring data for period ending: 9 December</i>	Y	N/A	
<i>Attended noise monitoring field sheets / reports</i>	Y	N/A	
Westmead Utility Relocation (WUR), Quickway			
	Nil		

Inspections / site visits		
Date	Location(s)	Details
5 December	CTP North Strathfield and The Bays	Larry Clark OOH AA inspection.
		Concrete drop pipe in use at NST verification monitoring of NML compliance. The Bays diesel tower crane assessed to be NML compliant at 27 Mansfield Street, where the RBL was measured in the EIS and on which the NMLs are based. Background noise level of 37dBA at 27 Mansfield Street without the crane operating. Crane audible at times when heard to be operating – estimated noise level 39dBL _{Aeq,15minutes} . AFJV evaluating feasible and reasonable noise mitigation options to address the higher noise level at 1 Batty Street.
17 December	<i>Hunter Street and Pyrmont East</i>	<i>Dave Anderson attended ER inspection</i>
		<i>Construction of minor ancillary facility construction at Richard Johnson Square will now be primarily standard hours works (avoiding potential OOH impacts). Witnessed shaft excavation within Pyrmont East shed and noted subjective acoustic enclosure benefit of shed.</i>
18 December	WTP Clyde Dive and MSF West	Larry Clark attended ER inspection
		Discussion on tower crane at Clyde Dive to stop operating at night, with tunnel segments to be loaded by forklift onto MSV for delivery into the tunnel, and activity modelling for NML compliance. Discussion on cross passage excavations and monitoring, and activities during Christmas shutdown period. Viewing of RTA heritage façade, ATC premises, works nearby and vibration monitors and discussion on trigger values and monitoring results during recent compaction rolling and installation of a temporary water diversion pipe.
18 December	CTP North Strathfield	Larry Clark joined ER inspection
		Discussion on Christmas shutdown period procedures and activities.

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

18 December	Pymont East	Dave Anderson attended OOH inspection / monitoring (2300 to 0100hrs)
	Witnessed site operations, including 2 deliveries. Considerate operation of forklift noted (avoiding transient noise). Steady state noise from site, including Water Treatment Plant, audible at surrounding receiver locations but not judged to be objectionable.	

Meeting		
Date	With	Purpose
2, 9 December	AFJV, Sydney Metro, ER	Environment meeting, CTP
2 December	Sydney Metro, GLC, ATC	Fortnightly works status
3, 10, 17 December	Sydney Metro, JCGJV, ER	Weekly environment meeting, ETP
9 December	DPHI, ER	Monthly meeting with DPHI compliance
11 December	Sydney Metro, GLC, ER	Environment meeting, WTP
11 December	Sydney Metro, JCGJV, ER	Discussion on vibration waveform analysis at Skinners Hotel
18 December	Sydney Metro, JCGJV, ER	Discussion on Pymont DNVIS comments
[Not held this month]	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
18/12	Pymont East: careful and considerate OOH operation of forklift operating outside shed to move deliveries. Operator avoided excessive revs and also slowed down to carefully navigate ramps, avoiding transient noise from tines rattling or impacting road surface.

Ongoing and upcoming noise and vibration risks	
ETP:	<ul style="list-style-type: none"> Pymont: Cavern excavation continuing 24/7 Hunter Street: transitioning from demolition to shaft excavation
CTP:	<ul style="list-style-type: none"> Cross passage ground borne noise and vibration. Being managed by door knocking by comms. Demob and demolition at Five Dock. Managed by comms notifications and consultation.
WTP:	<ul style="list-style-type: none"> Unwin Street works adjacent to RTA heritage façade. Management measures discussed.

Noise and vibration complaints

12 noise and vibration complaints attributed to Sydney Metro during December, 7 of which were from Pyrmont:

Location / activity	Standard hours	Out of hours	Both standard and out of hours
Westmead	1		
Parramatta			
Clyde / Rosehill			
Sydney Olympic Park			
North Strathfield			
Burwood North		1	
Five Dock	1	1	
The Bays		1	
Pyrmont	6	1	
Hunter Street			
Tunnelling ETP CTP WTP			
Total	8	4	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.

