ACOUSTICS ADVISOR MONTHLY REPORT

SYDNEY METRO WEST - Stage 1 (SSI 10038), *Stage 2* (*SSI 19238057*[1]) and Stage 3 (SSI 22765520[2])

For period:	September 2025	Authorisation:	Larry Clark, Alternate Acoustics Advisor
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Date of issue:	7 October 2025		

Acoustics Advisors		
Dave Anderson, Larry Clark, David Hanson, Aaron Miller and Sav Shimada		
Document review		
Document	**Reviewed**	**Endorsed / approved**
Stage 1 - Central Tunnelling Package (CTP), AFJV		
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Stage 1 - Western Tunnelling Package (WTP), GLC		
DNVIS Rev W	Y	10 September 2025
Parramatta Station Sewer Relining DNVIS	Y	25 September 2025
Priddle St and Hawkesbury Rd Intersection Works DNVIS	Y	25 September 2025
Construction Noise and Vibration Monitoring Program Rev I	Y	01 September 2025
Construction Noise and Vibration Monitoring Report No.6	Y	16 September 2025
Stage 2 - Eastern Tunnelling Package *(ETP), JCG*[1]		
Hunter Street Station DNVIS Rev 05	*Y*	*05 September 2025*
DNVIS Addendum - Tunnelling - Pyrmont Cavern Invert Rockhammering	*Y*	*11 September 2025*
Attended noise monitoring – Pyrmont invert hammering	*Y*	*N/A*
Pyrmont - Ancillary Facility Assessment - Union St Concrete Pours - Rev D	*Y*	*N/A*
Stage 1 - Phase J (North Strathfield Utilities and Kiosk), Syscon		
Construction Environment Managament Plan	Y	N/A
Low Impact Works Application 1 – Site Survey	Y	N/A
Stage 1 - Phase H2 (Five Dock Utilities Relocation), Quickway		
Construction Environmental Management Plan	Y	N/A
LIW Application 1 – Site Survey	Y	N/A
OOHW Permit 1 - LIW	Y	08 September 2025
Construction Noise and Vibration Management Plan	Y	25 September 2025
Construction Noise and Vibration Monitoring Plan	Y	25 September 2025
Detailed Noise and Vibration Impact Statement	Y	Under Review
Stage 3[2] – Phase L (Rosehill Power Enabling Works), Quickway		
Low Impact Works assessment for Clyde / Rosehill pothole / slit trenching early works investigations	Y	N/A
Clyde / Rosehill pothole / slit trenching early works investigations – OOHW application 001	Y	Under review
Quickway Memo in response to DPHI RFI re: Phasing Report	Y	N/A

[1] *Sydney Metro West Stage 2: Bays to Sydney CBD (SSI 19238057) shown in italics*

[2] Sydney Metro West stage 3: Rail infrastructure, stations, precincts and operations (SSI 22765520) shown underlined

Inspections / site visits

Date	Location(s)	Details
5 September	*ETP Pyrmont.*	*Aaron Miller witnessed noise monitor installation*
	Noise and vibration monitor installation at the [redacted] ahead of TBM passage. Two Omnidots installed, thresholds of 0.25 mm/s to protect artefacts. Discussed process if thresholds are exceeded. [redacted] has own acoustic consultant monitoring levels on exhibits. TBM expected underneath in 3 weeks.	
9 September	*ETP Hunter Street and Pyrmont sites*	*David Hanson joined ER inspection*
	Discussions on: Tunnelling/Pyrmont DNVIS addendum. Quiet crane observed at Hunter St West - EMP028 Kobelco Crawler Crane CKS1350. Opportunity for noise reduction observed at Pyrmont – screening of exhaust noise at Edward St pedestrian entrance.	
17 September	WTP Parramatta and Westmead sites	Aaron Miller joined ER inspection
	Discussion on urgent DNVISs – Parramatter sewer relining and Westmead Priddle St works. No opportunities for improvement observed – both sites well managed.	
19 September	*ETP Pyrmont – [redacted]*	*David Hanson witnessed Renzo Tonin attended ground-borne noise and vibration monitoring*
	Invert excavation. 25t hammer operating directly beneath property. Hammering barely audible – 34-35dBA (without 5dB penalty) – well below ambient (controlled by road traffic, aircraft passing overhead, pedestrians and cyclists). Background level also 34-35dBA. Vibration not perceptible.	
25 September	Five Dock Power and Enabling Works	David Hanson joined OOHW inspection
	First night works under Five Dock scope. Excellent noise management practices observed from all personnel on site. Pavement hammering, sawing and vacc truck excavation. Inaudible from neighbouring streets. Noise monitoring exercise to assist Sydney Metro comms team, focusing on noise propagation to surrounding neighbourhood.	
29 September	WTP WMD Priddle St Works	David Hanson witnessed OOHW monitoring
	First night of road works at intersection of Priddle St and Hawkesbury Rd. Opportunities for improvement identified in terms of noise blanket layout and dust suppression. Noise levels were in line with predictions.	
30 September	*ETP Hunter Street and Pyrmont sites*	*David Hanson and Larry Clark joined ER inspection*
	Discussions on: diesel tower crane for Hunter Street East TMB retrieval (including OOH OSOM) to be fitted with noise attenuators; tower crane assembly and disassembly to be OOH; upcoming CoA D39 monitoring at Hunter Street West; replacement of excavator bucket sieving by shaking with a rotary sieve attachement discussed but no feasible and reasonable (high cost for short duration); TBM fans turned on and monitored in Union St with no issues; correlation observed between TBM cutter head torque and vibration levels in Maritime Museum, which could be useful in the future for managing TBM vibration; ongoing discussions with Pyrmont Street resident in relation to Alternate Accommodation offer for upcoming 24 hour invert hammering.	
30 September	*ETP: PYR East*	*David Hanson witnessed OOHW monitoring for segment delivery*
	Noise monitoring of TBM segment deliveries to Pyrmont East. One complete movement observed. Noise levels from segment truck were not substantially different to normal traffic along Pyrmont Bridge Road. Shed doors were opened only to facilitate the truck movement and closed immediately after.	

Meetings

Date	With	Purpose
8, 22 September	Sydney Metro, GLC, ATC	Fortnightly works status
5, 19 September	Sydney Metro, ERs, DPHI	Phasing Report Updates – Phases J and L
8 September	DPHI, ERs	Monthly meeting with DPHI Compliance and Post Approvals
3, 17 September	Sydney Metro, ER, Quickway	Five Dock Utility Relocation Enviro and Approvals meeting
8, 24 September	Sydney Metro, ER, Quickway	Rosehill Power Enabling Works Environment Meeting
11 September	AFJV, Sydney Metro, ER	Environment meeting, CTP
2, 9, 16, 23, 30 September	*Sydney Metro, JCGJV, ER*	*Weekly environment meeting, ETP*
25 September	DPHI, Sydney Metro, ER	Monthly meeting with DPHI post-approvals
17 September	Sydney Metro, GLC, ER	Environment meeting, WTP

Meetings

Date	With	Purpose
1, 8, 15, 22, 29 September	Sydney Metro, ER, Syscon	Phase J Nth Strathfield Enviro and Approvals meeting
16 September	Sydney Metro, GLC, ER	WTP briefing on upcoming DNVISs (Parramatta and Westmead)
24 September	Sydney Metro, ERs	Trial of Sydney Metro OOHW Online Tool

Noise and vibration issues, incidents, recommendations

Date	Contract / Location and details
9 September	*ETP / PYR-E: JCG have gone to some effort to arrange ventilation so that site hoarding provides good screening. In discussion with AA, JCG investigated additional screening on the Edward St pedestrian access gate to potentially reduce noise further. Outcome: neither feasible (unable to completely screen turnstile) nor reasonable (ventilation fan is not operated beyond 6pm).*

Examples of good practice in noise and vibration management

Date	Contract / Location and details
9 September	*ETP HSW: new heavy mobile crane in use at the Hunter St West site is very quiet (EMP028 Kobelco Crawler Crane CKS1350). Inaudible during slewing and lowering hook over normal noise from small EWP idling nearby.*
19 September	*ETP PYR: good attended noise monitoring practice, good quality site notes from ground-borne noise measurements at Miller St, Pyrmont.*
25 September	FDPEW: Excellent noise management from Quickway. Toolbox prior to commencement emphasised construction fatigued community and all personnel exhibited good practices such as quietly lowering equipment to the ground, talking quietly and only when necessary, quiet vacc truck, work area completely sealed on all sides by noise blankets with no gaps, battery electric lighting, batter concrete saw.

Ongoing and upcoming noise and vibration risks

ETP:

- *Potential construction noise fatigue at Hunter Street with works seven days per week (including Sunday) under CoA D39 respite agreement. JCG understood to be managing the situation with ongoing consultation and discussions with stakeholders.*
- *Hunter Street: shaft excavation by day, ongoing OOH tunnelling support works at Hunter Street East. Potential cumulative impact from Milligans development adjacent to Hunter Street West; demolition work at that site likely to ramp up in September.*
- *Upcoming 24/7 scopes at Pyrmont, including tunnelling with rock hammers (~1-2 weeks) and overnight concrete pours (4 nights). Measurements to date suggest ground-borne noise from rock hammering may be less than predicted. JCG managing community engagement and respite / AA offers well.*

CTP:

- All CTP sites are now demobilised and handed over noting that the final surface site handover was achieved at Five Dock on 12 May 2025.

WTP:

- Haul road removal, piling and other retaining wall works along Clyde Dive ATC boundary adjacent to stables.

Utilities packages:

- Five Dock: LIW commenced, OOHW and potential construction noise fatigue of this community adjacent to the Five Dock East site. Quickway observed to be managing the works well. Sydney Metro handling community engagement.
- Rosehill: works mainly thtough industrial area. All works predicted to be <NML at ATC and nearest residential receivers.
- North Strathfield: still in planning stage. LIW to commence in October / works to commence in December.

Noise and vibration complaints

There were 9 registered noise and vibration complaints attributed to Sydney Metro during September, encompassing 5 complaints related to Pyrmont and 4 to Hunter Street. Two of these complaints also referred to tunnelling and have thus been treated as separate complaints in the summary below:

Location / activity	Standard hours	Out of hours	Both standard and out of hours	Total
Westmead				
Parramatta				
Clyde / Rosehill				
Sydney Olympic Park				
North Strathfield				
Burwood North				
Five Dock				
The Bays				
Pyrmont	*1*	*2*	*2*	*5*
Hunter Street	*1*	*2*	*1*	*4*
Tunnelling ETP CTP WTP		2		2
Total	**2**	**6**	**3**	**11**

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.

