

**MONTHLY REPORT
PARAMMATA LIGHT RAIL (PLR): ACOUSTIC ADVISOR**

For Period:	01 - 30 November 2021
Prepared By:	[REDACTED]
Date of Issue:	2 December 2021
Reference:	5518_PRL-Monthly_AA_Report_November01to30_2021
Authorisation:	

PJT - Project Wide, P1 NP - Enabling Works, P2 HRW - Hawkesbury Road Widening, P3 SAM - Camellia, P4 INF - Infrastructure, P5 SOM - Supply Maintain Operate. RT - Alternate AA inspections

Acoustic Advisor Activity

- Review and endorsement provided for:
 - P1 NP: OOHW 027 - Woolpack Hotel OOHW Permit
 - P4 INF: CNVMP (Rev 11) - Annual Review
 - P5 SOM: OOHW Permit 001 - AB Mauri Sewer Works, SaMF site
- Review and comments provided for:
 - Daily Review of noise blanket set-up and pre-start meeting billboard across all construction sites, provided electronically to ER and AA daily from 16/11 - 23/11/2021 inclusive.
 - Review and general comment, regarding an Environmental Non-Compliance - Noise Mitigation incident raised by Parramatta Connect (INX 246810, 24/11/2021) in response to ER observations regarding inadequate noise mitigation at a site on George Street (near Alfred Street) during short duration HNIW.
- Attendance at, or review of meeting minutes, from DPIE and TfNSW (General Meeting, Executive, Environmental Planning and Sustainability).
- Site Inspections completed by Alternate AA (Roger Treagus):
 - Fortnightly Inspection (#41) - 3rd November 2021 - Area 1, 2 and 3
 - Fortnightly Inspection (#42) - 23rd November 2021 - Area 1, 2 and 3
 - Fortnightly Inspection (#43) - 29th November 2021 - OOHW Area 1 and 2, including Sydney Water OOHW north of Lennox Bridge.
 - Site Inspection review (noise monitoring, night period) to investigate complaints from vehicle tyre noise crossing light rail tracks at Factory/O'Connell Street intersection 19th November 2021. Levels found acceptable in accordance with Road Noise Policy.
- Review of noise and vibration monitoring records and alerts and daily complaints register.

Noise and Vibration Matters Raised

- The EPA are undertaking a Noise Compliance Campaign, including review of noise impacts generated during 'out of hours work' (OOHW) from transport infrastructure construction projects - including PLR. The campaign will run from October to December 2021, and the AA will aid where possible or requested.



- The AA was informed that generally the EPA have been satisfied with the noise controls, with some recommendation to 'tighten up' the use of noise blankets to avoid gaps, advice mirrored in AA recommendations.
- The ER in response to repeated pause work and rectification notifications regarding noise mitigation (primarily through the use of noise blankets during HNIW), instructed the contractor to complete daily pre-start checks and photographs of implementation of noise mitigation as well as proof of pre-start discussion regarding importance to consider noise mitigation during works.
 - This was demonstrated via daily electronic submission to the ER and AA, from 16/11 - 23/11/2021 inclusive.
 - Further, the AA instructed contractor on 17/11 to ensure noise blankets were utilised to the greatest effectiveness via minimising gaps and sagging, identified as rectified the following day.
 - The AA additionally provided clarification provided to contractor that small Kango breakers trigger as HNIW.
 - As a result of daily reviews sites were identified to generally demonstrate compliance and diligence with the use of noise mitigation.
- A formal Environmental Non-Compliance - Noise Mitigation incident was raised by Parramatta Connect (INX 246810, 24/11/2021) in response to ER observations regarding inadequate noise mitigation at a site on George Street (near Alfred Street) during short duration HNIW.
 - It was noted that a general improvement had been identified across the recent week as discussed above, however it was necessary for the contractor staff to ensure noise mitigation was implemented for any and all HNIW, no matter the duration.
- Further to the investigation completed in October (daytime traffic), an additional site Inspection review (noise monitoring) was completed during the night period to investigate complaints from vehicle tyre noise crossing light rail tracks at Factory/O'Connell Street intersection 19th November 2021.
 - Levels were found to be acceptable in accordance with Road Noise Policy review parameters (<2 dB difference with/without the additional noise source), however it was recognised that a full monitoring assessment will be required at final commissioning checks of the Light Rail project.

Noise and vibration complaints

- AA follow up regarding actions regarding specific complaints. All were identified as suitably addressed and/or resolved. Including the additional site monitoring review of O'Connell / Factory Street noise from vehicles crossing the tracks.

Inspections / Actions

- Fortnightly Inspection (#41) - 3rd November 2021 - Area 1, 2 and 3
 - Area 1 - Cumberland, along Hawkesbury Road, minor trenching low levels of noise and activity
 - Area 2 - George Street, from Harris to Alfred Street, minor excavation, minimal noise
 - Area 3 - Rail Corridor between Rydalmere and Telopea, minor activities, minimal noise
 - Report and advice issued 4 November 2021, no queries or items for actions raised.
- Fortnightly Inspection (#42) - 23rd November 2021 - Area 1, 2 and 3
 - Area 1 - Westmead - Hawkesbury Road at Railway Parade, power auger, no HNIW
 - Area 1 - North Parramatta - Church Street at Harold Street, small generator - OFI to shield source
 - Area 2 - CBD - Church Street and George Street Intersection, drilling enclosure identified with large gaps in the noise blankets. Immediately Rectified.
 - Area 3 - Rydalmere - Rydalmere Station, paving works and ballast installation, noise blankets observed around a cutting station.



- Report and advice issued 24 November 2021, no queries or items for actions raised.
- Fortnightly Inspection (#43) – 29th November 2021 – OOHW Area 1 and 2, including Sydney Water OOHW north of Lennox Bridge.
 - Area 1 – North Parramatta – Church Street at Fennell Street
 - Area 2 – CBD – Church Street north of Lennox Bridge to Victoria Road
 - Area 2 – CBD – Church Street at Phillip Street
 - Noise from works dominated by vacuum trucks, where works are ongoing/stationary for long periods, consideration of noise blankets in the direction of sensitive receivers recommended as an opportunity for improvement.
 - Report and advice issued 30 November 2021, no items for action raised.
- Monitoring Inspection regarding complaints from vehicle tyre noise and vibration crossing light rail tracks at Factory/O’Connell Street intersection:
 - Investigation of the noise and vibration generated by vehicle traffic crossing the tracks via attended measurements during daytime (27th and 28th October 2021), and noise during night-time (19th November 2021).
 - Report and advice provided to TfNSW identifying that the noise levels were found to be acceptable in accordance with Road Noise Policy review parameters (<2 dB difference with/without the additional noise source), however it was recognised that a full monitoring assessment will be required at final commissioning checks of the Light Rail project.
 - No correlation of vehicle activity across the light rail tracks was identified with vibration at the complaint location (29 Galloway Street).

Monitoring and Alerts

- HAC Monitoring – Cumberland Hospital, Westmead
 - Triggered alerts via SMS for elevated noise levels at various times.
 - No action required, significant noise level alarms unrelated to construction activity.

Non-compliance and incident details

- Discussed in ‘Noise and Vibration Matters Raised’ section above

Ongoing and upcoming environmental risks (noise and vibration)

- Diligence in minimising potential impacts and perception recommended via notifications.
- Noise from vehicles crossing the new tracks, as per that identified at O’Connell Street, may be a noticeable change in characteristic of traffic noise at various locations on the project. Method of communicating this to public should be consistent.

Recommendations / Advice (incl auditing)

- No additional

Outstanding Queries / Other Items

- Nil

