

Saturday, 30 September 2023

Project number: S200381
Reference: S200381LT146

Erica van den Honert
Director, Infrastructure and Management
Department of Planning, Industry and Environment
GPO Box 39
Sydney NSW 2001

Dear Erica,

**M6 Stage 1
Acoustics Advisor Monthly Report
September 2023**

1 Introduction

1.1 Acoustic Advisor

The Acoustics Advisor (AA) forms part of a wider independent project advisory team including the Environmental Representative (ER) and the Independent Certifier (IC) providing skills, expertise and resources for acoustics advisory services in accordance with requirement of the Planning Approval (SSI 8931). There is a requirement to provide a monthly report summarising activities of the AA for the preceding month.

1.2 Scope of monthly report

The monthly report details the AA's actions and decisions on matters for which the AA was responsible in the preceding month. The scope of the report relates to advisory on matters relating to:

- Noise Insulation Program (NIP) referrals.
- Documentation review and endorsement including but not limited to at-property acoustic treatments, construction environmental management plans and the Operational Noise and Vibration Review (ONVR).
- Review of on-site performance of construction noise and vibration mitigation performance.
- Construction related complaint referrals.

2 Summary of construction activities

2.1 General

- Current month
 - CGU
 - C1: Tunnel excavation and support activities continue (7 road headers in 6 headings). M&E continue works in substation and shafts.
 - C2: Tunnel excavation and support activities continue (4 road headers).
 - C3 Structures: Continue Hybrid Diaphragm Walls. Excavation of cut and cover at top-down area and for roof slab. Excavation of southern portal (east side) continued along with installation of anchors. Pile break back and preparation including steel work for roof concrete pours. Spoil handling and removal ongoing.
 - C3 Tunnels: Acoustic shed complete. Commence shaft excavation and ring beams (see attached story from our intranet if interested). Operation of construction water treatment plant.
 - MOC3: Continue substation structure and FRP. Tower crane installed. Ventilation shaft excavation and support.
 - Roadworks and Utilities: Two 56hour shutdowns completed for Princes Hwy Pavement installation. Stormwater installation adjacent to TAFE. Ongoing installation of utilities within work areas along President Avenue. Stormwater drainage works (multiple locations). Validation and remediations works within the C6 compound. Load transfer platform and filling works for upcoming traffic switch (WBS to Oneill – scheduled for November). Preparation for further 56 hour shutdowns on Princes Hwy.
 - ATC: Bored piling for President Avenue pedestrian bridge. Batter protection and stabilisation works. Works on ATC adjacent to Ilinden football field.
 - PPS: Trenching and conduit install works passed 50% complete. Underbores completed from Slade Road Reserve to Wolli Creek Regional Park. Nightworks at Slade Road, Wollongong Road, West Botany Street and Rockdale Plaza Drive.
 - TfNSW
 - Roll out of the At-Property Noise Treatment Program.
- Next month
 - CGU
 - C1: Tunnel excavation and support activities continue (OOHW included). M&E works ongoing in Substation and ventilation shaft.
 - C2: Tunnel excavation and support activities continue (OOHW included).
 - C3 Structures: Ongoing construction of Hybrid Diaphragm Walls. Excavation of Cut and Cover (multiple fronts). Large dimension roof slab pours to take place (OOHW). Ongoing use of spoil bays, ongoing management and removal of waste on going from the compound. Low impact use of bentonite plant, OOHW for concrete pours roof pours and hybrid D-walls where required.
 - C3 Tunnels: Continue shaft excavation, ongoing construction WTP operations. OOHW within acoustic shed
 - MOC3 Buildings: Continue substation building and excavation of MOC3 shaft. Low impact OOHW.
 - Roads and Utilities: Princes Highway pavement including 56hour shutdowns. Continue load transfer platform and filling works for WBS-ONEill switch (scheduled for mid-November). Ongoing installation of utilities. Stormwater drainage works (multiple locations).
 - ATC: Ongoing works either side of President Avenue including, piling, waste management, batter works for piling platforms.
 - PPS: continue trenching for conduit installation. Complete underbores at Silver Jubilee Park. Continue OOHW at Wollongong Road, West Botany Street, Rockdale Plaza drive and start the program of 56hour shutdowns for identified intersections, starting at Earlwood.

- TfNSW
 - Roll out of the At-Property Noise Treatment Program.

2.2 Other work

- N/A

3 Monthly activities

3.1 Secretary communications

No Secretary communications were logged this month.

3.2 Recommendations for improvement

No recommendations for improvement were logged this month.

3.3 Documentation reviews

3.3.1 A4 Endorsements

The AA issued letters of endorsement for the following documents:

- No document endorsements were required.

3.3.2 Document reviews

The AA reviewed the following documents:

- No document reviews were required.

3.3.3 OOHW work permit reviews

No OOHW work permit reviews were required this month.

3.3.4 NIP Escalation reviews

The following NIP escalation reviews were conducted during the past month:

Location	Reason for Review	Review	Recommendations
195 Bay Street	Resident requested independent review of at-property treatment offered on the basis of construction noise.	The following desktop documentation review was completed: - C2 CNVIS - CGU Noise monitoring summary - CGU Noise monitoring note sheets - At-Property Treatment Report - Original At-receiver noise treatment scoping report for 195 Bay Street. Based on this review, the level of treatment offered in the scoping report is consistent with predicted noise levels and approach noted in the CNVIS for at-property treatment categories and also the treatment category noted in the at-property treatment report. The noise measurement information provided indicates compliance with the noise management levels relating to C2 works.	- Conduct a site visit to C2 to confirm implementation of mitigation measures (complete - refer to Section 3.6). - Conduct an additional noise measurement to confirm alignment with noise level predictions in the C2 CNVIS (pending).

3.4 Monitoring of document implementation

Please refer to Section 3.6, where review of CNVIS implementation is described.

3.5 Incidents

- 5/09/2023 Report Only, Unexpected finds (determined as not heritage), President Avenue (no noise impact).
- 11/09/2023 Report Only, Injured Fauna, C3 (no noise impact).
- 25/09/2023 Report Only, Minor Diesel Spill, ATC (Civic) (no noise impact).

3.6 Auditing and inspection

The following site inspections were conducted during the past month:

Location	Date	Reason for Inspection	Observations	Recommendations
Corner of Princes Highway and President Avenue	Saturday, 16 September 2023	Review of Implementation of Mitigation Measures for <u>56 Hour Shutdown</u> and scope included: • Partial closure of Princes Highway. • Break out and removal of existing pavement. • Reinstatement of new pavement.	• Noise blankets located around main work site and around diesel generator providing power to the site compound. • Vibration monitor provided to confirm compliance with vibration limits on adjacent heritage building. • 120 properties were offered respite for the weekend, 41 of which accepted the offer. • No complaints relating to noise and vibration were received.	No additional recommendations made in relation to this site visit.

Location	Date	Reason for Inspection	Observations	Recommendations
C2	Thursday, 28 September 2023	A Noise Insulation Program at property treatment was referred to the AA for review. The location of the residential property in question is directly adjacent to the C2 site. A site inspection was conducted in order to confirm that the noise mitigation measures identified in the C2 Construction Noise and Vibration Impact Statement (CNVIS) were appropriately implemented.	- Mitigation measures noted in the CNVIS have been implemented and include an Acoustic Shed over the tunnelling and a 4m high noise barrier to the northern boundary of the site. - Additional treatment by way of ply noise barriers and noise blankets have been added to a compressor, flow restriction valve and pump.	- No additional noise mitigation measures are recommended at this stage. - An additional noise measurement at the adjacent resident was recommended to confirm construction noise levels align with those predicted in the CNVIS.

3.7 Community complaints and conflict

The complaints register is provided on a weekly basis. No complaints or issues relating to noise and vibration were referred to the Acoustic Advisor.

3.8 Document amendments

No document amendments occurred this month.

3.9 Meetings

The following meetings were attended by the AA:

- 12 September 2023
 - Fortnightly DPIE Meeting with TfNSW, ER, CGU.

3.10 Interactions with the ER

Please refer to Section 3.9.

3.11 Other AA Activities

Section not used.

Please let me know if you have any queries or wish to discuss the above.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'A. Parker', with a stylized loop and a trailing flourish.

Andrew Parker
Technical Director
+61 2 8355 4888
+61 432 602 803
andrew.parker@resonate-consultants.com