

Detailed Noise and Vibration Impact Statement

Macquarie Lane Reinstatement Works

Project SMW WTP - Parramatta
Client Gamuda Laing O'Rourke Consortium

Teambinder Number:
SMWSTWTP-GLO-PTA-NV-PLN-000004

Assessment Date 04/02/2026

Assessment Id: PARRA-198

Proposed start date: 02/03/2026*

Proposed end date: 13/03/2026*

**Note - dates are subject to change. However, working times used to model activities remains relevant.*

Date	Revision	Contents	Reviewer
11/02/2026	A	First draft of the DNVIS submitted for review	Environmental Manager (GLC)
17/02/2026	B	Address comments from AA/ER/SM	Environmental Advisor

Acoustic terms and acronyms

AA	Acoustic Advisor
AMM	Additional mitigation measures – applicable where standard measures have been implemented and NML is still expected to be exceeded.
dB(A)	Unit used to measure ‘A-weighted’ sound pressure levels. A-weighting is an adjustment made to sound-level measurement to approximate the response of the human ear.
DPHI	NSW Department of Planning Housing and Infrastructure
EIS	Environmental Impact Statement
ICNG	Interim Construction Noise Guideline (Department of Environment and Climate Change 2009)
NCA	Noise Catchment Area
Noise level statistics	<p>L_{A90} - The A-weighted sound pressure level exceeded 90% of the monitoring period. This is considered to represent the background noise.</p> <p>L_{Aeq} - The equivalent continuous A-weighted noise level—the level of noise equivalent to the energy average of noise levels occurring over a measurement period.</p> <p>L_{A1} – The A-weighted sound pressure level exceeded 1% of the monitoring period.</p> <p>L_{Amax} – The maximum A-weighted noise level associated with the measurement period.</p>
NML	Noise Management Level
PPV	Peak Particle Velocity – Measurement of ground-borne vibration in units of mm/s
RBL	Rating Background Level - a single figure that represents the background noise level for assessment purposes
ROL	Road Occupancy Licence – granted by Transport for NSW and required for any activity likely to impact on traffic flow.
SWL	Sound Power Level - The A-weighted sound power level is a logarithmic ratio of the acoustic power output of a source relative to 10-12 watts and expressed in decibels. Sound power level is calculated from measured sound pressure levels and represents the level of total sound power radiated by a sound source.
SPL	<p>Sound pressure level - This is the level of noise, usually expressed in dB(A), as measured by a standard sound level meter with a pressure microphone. The sound pressure level in dB(A) gives a close indication of the subjective loudness of noise.</p> <p>A technical definition for the sound pressure level, in decibels, is 20 times the logarithm (base 10) of the ratio of any two quantities related to a given sound pressure to a reference pressure (typically 20 μPa equivalent to 0 dB).</p>
Tonal noise	Noise with perceptible and definite pitch or tone
TGS	Traffic Guidance Scheme
VDV	Vibration dose value – used when assessing intermittent vibration as it is sensitive to peaks in vibration acceleration and accumulates the vibration energy received over the daytime and night-time periods

1 Introduction

1.1 Overview

The Sydney Metro Western Tunnelling Package is being delivered by the Gamuda Australia and Laing O'Rourke Consortium (GLC) and includes twin nine-kilometre tunnels between Sydney Olympic Park and Westmead, excavation of two new metro stations, and a stabling and maintenance facility at Clyde (the Project).

During the Project, there is potential for nearby sensitive receivers to experience adverse impacts relating to noise and vibration. The project utilises KNOWnoise™, a project-specific noise prediction tool, to prepare Detailed Noise and Vibration Impact Statement's (DNVIS) for site and activity-specific noisy works where it triggers Ministers Condition of Approval (MCoA) D43.

This DNVIS has been prepared using KNOWnoise™ and addresses activities for the reinstatement of Macquarie Lane.

The works are proposed to be delivered via a series of discreet steps as summarised below in Section 1.2 and would generally need to be undertaken at night to minimise an unacceptable risk to compromising road network operational performance.

The structure of this DNVIS includes:

- Section 1.2 – Construction works and hours with justification for these works in Section 1.3
- Section 2 – Existing environment
- Section 3 – Assessment framework including noise and vibration management levels
- Section 4 – Construction noise assessment
- Section 5 – Mitigation and management, including consultation

1.2 Planned works

GLC plans to carry out the works described in Appendix A over four steps. Steps (1)-(4) have been further broken down into discrete noise scenarios given that these activities would not occur simultaneous. This allows for a greater understanding of the predicted noise impacts and therefore suitable mitigation measures to be implemented. **Figure 1** provides a markup of works location as well as the extend of closed works as per the Road Occupancy License (ROL) and Traffic Guidance Scheme (TGS).

1) Removal of concrete strip

- a) Mobilisation
- b) Removal of concrete barriers
- c) Breakout and removal of asphalt ramp
- d) Lay and compact soil
- e) Reinstatement of asphalt ramp and barriers and demobilisation

2) Kerb reinstatement

- a) Mobilisation
- b) Removal of concrete barriers
- c) Breakout and removal of asphalt ramp
- d) Form, pour, and cure kerb
- e) Reinstatement of asphalt ramp and barriers and demobilisation

3) Asphaltting

- a) Mobilisation
- b) Breakout asphalt ramp, milling asphaltting, temporary linemarking and demobilisation

4) Linemarking

- a) Mobilisation
- b) Permanent linemarking and demobilisation

1.3 Justification of the works

The work proposed form a critical component of the wider Sydney Metro Western Tunnelling Package. Given the nature and location of the works, the specific working days and hours would be subject to Approval by the Roads Authority and relevant Road Occupancy Licenses. Working hours would also be approved by the Roads authority in consideration of the overall usage of the road, with priority given to off peak hours. Works would therefore be

undertaken in accordance with Environment Protection Licence (EPL) Conditions L5.7(b and c) and L5.8 as stated below.

L5.7 Works outside of standard construction hours (out-of-hours works)

Under this condition, works and activities may be undertaken outside of standard construction hours specified in condition L5.1 and L5.2, if they are required in relation to one or more of the following:

- a) carrying on those works and activities during standard construction hours would result in a high risk to construction personnel or public safety, based on a risk assessment carried out in accordance with AS/NZS ISO 31000:2018 "Risk Management";*
- b) the relevant road network operator has advised the licensee in writing that carrying out the works and activities during standard construction hours would result in a high risk to road network operational performance;*
- c) a relevant utility service operator has advised the licensee in writing that carrying out the works and activities during standard construction hours would result in a high risk to the operation and integrity of the utility network;*
- d) the TfNSW Transport Management Centre (or other road authority) have refused to issue a road occupancy licence during standard construction hours; or*
- e) Sydney Trains (or other rail authority) requires a rail possession for the activities to be performed outside of standard construction hours.*

L5.8 Works outside of standard construction hours - Regulatory Requirements In undertaking any out-of-hours works or activities under condition L5.7, the licensee must comply with the following:

a) Prepare a construction noise and vibration impact assessment in accordance with the Interim Construction Noise Guideline (DEC, 2009) that is to include:

- i. a description of the proposed out-of-hours works;*
- ii. predictions of LAeq (15 minute) dB noise levels at noise sensitive receivers from these works and activities, where noise levels are predicted to be greater than those permitted under condition L5.3; and*
- iii. a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the out-of-hours works, including during the period/s predicted to have the highest noise level impacts.*

b) Undertake noise monitoring in accordance with the monitoring plan required by condition L5.8(a)(iii).

c) Only undertake activities between the hours of 6:00pm on Mondays, Tuesdays, Wednesdays, Thursdays, Fridays and 7:00am the following day (unless permitted by another condition of this licence or related to a scheduled Sydney Trains Rail Possession).

d) Activities are not to be undertaken between the hours of 6:00pm on Saturdays, Sundays or Public Holidays and 7:00am the following day (unless permitted by another condition of this licence or related to a scheduled Sydney Trains Rail Possession).

e) Ensure that out-of-hours works do not result in noise levels exceeding those specified in condition L5.3 at the same noise sensitive receivers (unless specified in another condition of this licence) on more than:

- i. 2 consecutive evenings and/or nights at any time; and*
- ii. 3 evenings and/or nights per week; and*
- iii. 10 evenings and/or nights per month.*

f) Undertake any high noise impact works before 12:00 am (midnight) where reasonable and feasible

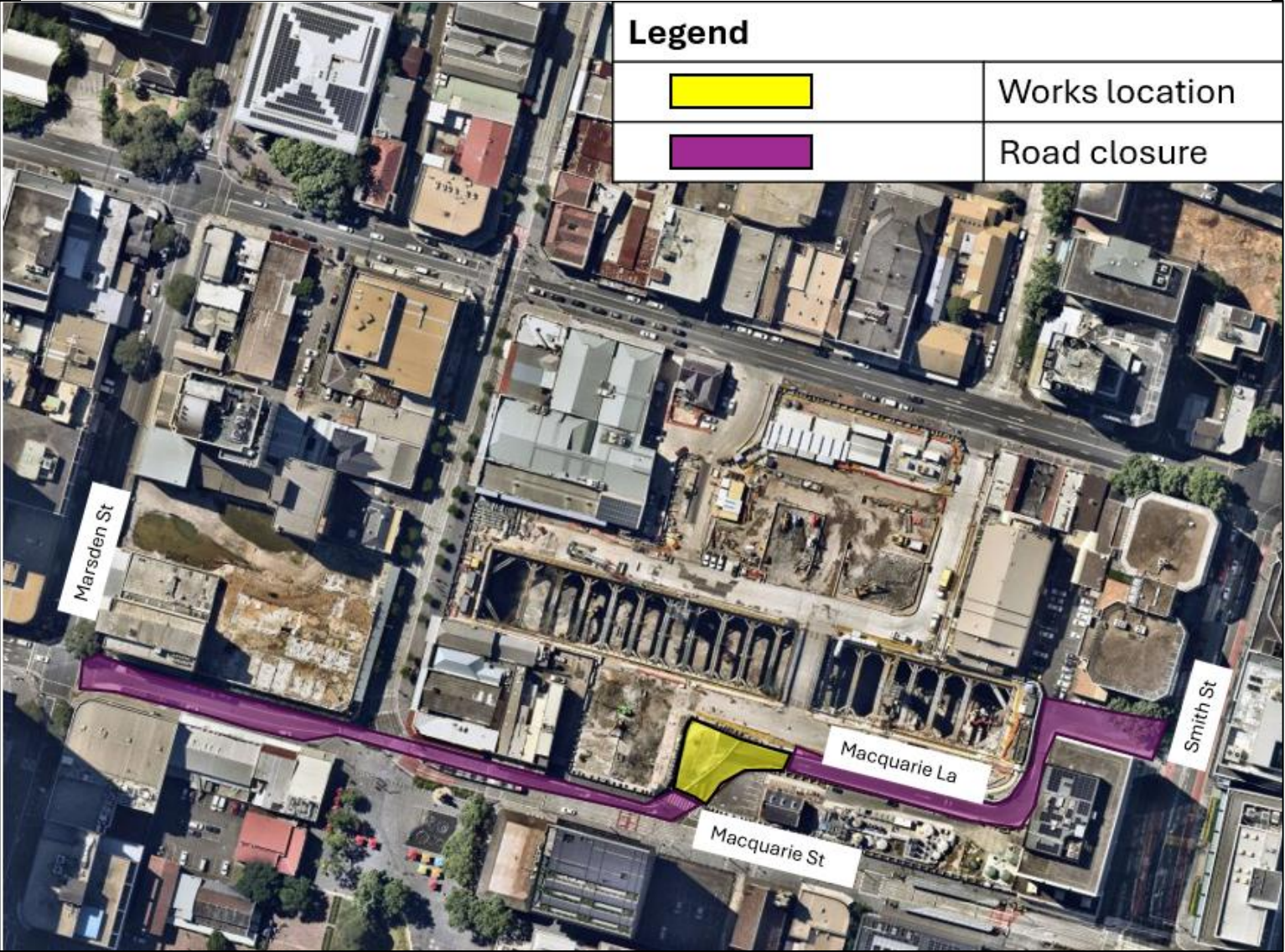
g) Where high noise impact activities are undertaken, the respite provisions as per the Environment Protection Authority - NSW 19-Dec-2025 Page 15 of 39 Licence version date: Section 55 Protection of the Environment Operations Act 1997 Environment Protection Licence Licence - 21676 requirements of condition L5.2(c) do not apply provided that all high noise impact activities are undertaken prior to 12:00 am (midnight).

h) Where high noise impact activities are undertaken after 12:00 am (midnight), the licensee is required to submit a written report to the EPA within 2 business days of the activity outlining the justification for continuing high noise impact works after midnight and the reasonable and feasible noise mitigation measures that were implemented to address these night time impacts.

i) Upon request of an authorised officer, the licensee must provide within 5 business days:

- i. the construction noise and vibration impact assessment required by condition L5.8(a);*
- ii. noise monitoring results required by condition L5.8(b);*
- iii. written evidence demonstrating the works are necessary and permitted under condition L5.7; and/or iv. any other relevant information or records requested by the EPA.*

Figure 1 – Markup of Macquarie Lane Reinstatement Works Location and Road Closure.



3 Assessment framework

3.1 Approved construction hours

Working hours are set by CoA D35 to D36 as summarised in Table 2. Use of power saws, rock breakers, drills and other tonal or impulsive activities are defined as annoying under the Interim Construction Noise Guideline (ICNG) and are ‘highly noise intensive works’.

Table 2 Approved construction hours

CoA	Construction activity	Monday to Friday	Saturday	Sunday / Public holiday
D35	Approved construction	7:00 am to 6:00 pm	8:00 am to 6:00 pm	No work (unless approved under EPL or out-of-hours work protocol)
D36	Highly noise intensive works	8:00 am to 6:00 pm ¹	8:00 am to 1:00 pm ¹	No work (unless approved under EPL or out-of-hours work protocol)

Notes:

1. if continuously, then not exceeding three hours, with a minimum cessation of work of not less than one hour.

3.2 Noise assessment criteria

3.2.1 Construction noise

The ICNG describes noise in excess of the background level as potentially having an adverse impact on sensitive receivers and increasing the likelihood of complaint. During standard construction hours, where construction noise is within 10 dB(A) of the RBL, impacts would be acceptable.

Where construction noise is more than 10 dB(A) above the RBL during standard construction hours, a residential receiver is considered noise affected and the proponent should undertake all reasonable and feasible steps necessary to manage the impact and consult with the affected community.

Above a $L_{Aeq, 15\text{minute}}$ noise level of 75 dB(A), a receiver is highly affected, requiring consideration of additional mitigation measures including alternative accommodation in the night period.

Outside standard construction hours, construction noise at a residential receiver more than 5 dB(A) above the RBL is taken to be noise affected. Table 1 (reproduced from Table 2 of the ICNG) sets out the NMLs for residences and how they are to be applied.

In addition, annoying noise such as rock hammers, impact piling, or other impulsive noise sources usually result in greater annoyance than continuous construction noise. A 5 dB(A) penalty is applicable to such activities prior to comparison with the NMLs.

3.2.2 Sleep disturbance

The CNVS requires maximum noise levels to be analysed in terms of the extent and number of times the maximum noise exceeds specific noise trigger levels, in general accordance with the Noise Policy for Industry (NPfI) (EPA 2017). These triggers are:

- $L_{Aeq, 15\text{minute}}$ 40 dBA or the prevailing RBL plus 5 dB, whichever is greater, and the
- L_{Amax} 52 dBA or the prevailing RBL plus 15 dB, whichever is greater.

The NPfI also recommends the DECCW (2011) Road Noise Policy (RNP) be reviewed for further risk assessment. The RNP recommends maximum internal noise levels below 50–55 dB(A) are unlikely to awaken people from sleep and one or two noise events per night, with maximum internal noise levels of 65–70 dB(A), are not likely to affect health and wellbeing significantly.

Table 3 Residential noise management levels

Time of day	NML L_{Aeq} (15 min) *	How to apply
Standard hours: Monday to Friday 7 am to 6 pm Saturday 8 am to 1 pm	Noise affected RBL + 10 dB	The noise affected level represents the point above which there may be some community reaction to noise. Where the predicted or measured L_{Aeq} (15 min) is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level. The proponent should also inform all potentially impacted residents of the nature of works to be carried out, the expected noise levels and duration, as well as contact details.
	Highly noise affected 75 dB(A)	The highly noise affected level represents the point above which there may be strong community reaction to noise. Where noise is above this level, the relevant authority may require respite periods by restricting the hours that the very noisy activities can occur, taking into account: <ul style="list-style-type: none"> - times identified by the community when they are less sensitive to noise (such as before and after school for works near schools, or mid-morning or mid-afternoon for works near residences); - if the community is prepared to accept a longer period of construction in exchange for restrictions on construction times.
Outside recommended standard hours	Noise affected RBL + 5 dB	A strong justification would typically be required for works outside the recommended standard hours. The proponent should apply all feasible and reasonable work practices to meet the noise affected level. Where all feasible and reasonable practices have been applied and noise is more than 5 dB(A) above the noise affected level, the proponent should negotiate with the community.

* Noise levels apply at the property boundary that is most exposed to construction noise, and at a height of 1.5 m above ground level. If the property boundary is more than 30 m from the residence, the location for measuring or predicting noise levels is at the most noise-affected point within 30 m of the residence. Noise levels may be higher at upper floors of the noise affected residence.

Other sensitive land uses, such as schools and offices, typically find noise from construction disruptive when the properties are being used (such as during work and school times). The noise management levels for non-residential receivers set in accordance with the Interim Construction Noise Guideline are provided in Table 4. These levels apply only during hours when the non-residential premises are being used.

The difference between an internal noise level and the external noise level is about 10 dB(A), which provides a conservative assumption that windows are open for ventilation. Buildings where windows are fixed or cannot otherwise be opened may achieve a greater noise level performance.

Table 4 Non-residential sensitive land uses noise management levels

Land use	Noise assessment location	NML (L _{Aeq,15min})
Classrooms at schools and other educational institutions	Internal	45
Places of worship		
Active recreation areas (such as sporting activities and activities which generate their own noise or focus for participants)	External	65
Passive recreation areas (contemplative activities that generate little noise and where benefits are compromised by external noise intrusion, for example, reading, meditation)	External	60
Industrial premises	External	75
Office, retail outlets	External	70

3.3 Project construction noise management levels

The Project specific construction noise management levels for residential receivers have been established in line with the ICNG, based on the RBLs relevant to each NCA. These are presented in Table 5. NMLs for non-residential sensitive receivers are described in Table 4.

Table 5 Project specific construction NMLs

NCA	Noise Management Level, L _{Aeq 15 minute}							
	Approved hours		Outside approved hours				Sleep disturbance (CNVS)	
	Noise affected	Highly noise affected	Day	Evening / OOHw1*	Night / OOHw2*	Sleep disturbance (CNVS)		
						L _{Aeq, 15 minute}	L _{Amax}	
1	58	75	53	51	46	46	56	
2	59	75	54	52	42	42	52	
3	68	75	63	58	48	48	58	

*Evening and night Out of Hours Work periods are also referenced as OOHw1 and OOHw2, respectively.

As part of planning for out of hours works, standard mitigation measures, as described in the CNVMP, are implemented where reasonable and feasible. However, after these measures have been applied, noise and vibration levels may continue to exceed the NMLs.

In this case, additional mitigation measures outlined in the CNVS, which largely focus on engagement with affected sensitive receivers, should be implemented where reasonable and feasible, unless other agreements are in place with the impacted receiver.

Triggers and additional mitigation measures for airborne noise are taken from the Project’s OOHw Protocol and summarised in Table 6. Further details of specific additional mitigation measures are described in the CNVS.

Table 6 Triggers for additional mitigation measures – Airborne noise (Sydney Metro 2020)

Construction hours	Class	dB above NML	Additional management measures
Approved hours Monday – Friday: 7am – 6pm Saturday: 8am to 6pm	N	0 to 10	-
	CA	10 to 20	LB
	MI	20 to 30	LB, M, SN
	HI	>30	LB, M, SN
Evening Monday – Friday: 6pm – 10pm Saturday: 7am – 8am, 6pm – 10pm Sunday / PH: 8am – 6pm	N	0 to 10	LB
	CA	10 to 20	LB, M
	MI	20 to 30	LB, M, SN, RO
	HI	> 30	LB, M, SN, IB, PC, RO
Night Monday – Saturday: 10am – 7am Saturday: 10pm – 8am) Sunday / PH: 6pm – 7am	N	0 to 10	LB
	CA	10 to 20	LB, M, SN, RO
	MI	20 to 30	LB, M, SN, IB, PC, RO, AA
	HI	> 30	LB, M, SN, IB, PC, RO, AA

Notes: PC = Phone Calls and emails
M = Monitoring
IB = Individual briefings
AA = Alternative accommodation
SN = Specific notification
LB = Letterbox drops
RO = Project specific respite offer

N = Noticeable CA = Clearly audible MI Moderately intrusive HI = Highly intrusive

3.4 Vibration management

3.4.1 Human comfort

When assessing human exposure to construction-related vibration, the CNVS requires vibration goals to be established using *Environmental Noise Management Assessing Vibration: A Technical Guideline* (DECC 2006), which provides criteria for the assessment of vibration impacts on humans.

Construction activities typically generate vibration of an intermittent nature, which is assessed using a Vibration Dose Value (VDV). Acceptable values of vibration doses are presented in Table 7 for sensitive receivers.

Table 7 VDV Vibration criteria

Receiver type	Low probability of adverse comment (m/s ^{1.75})	Adverse comment possible (m/s ^{1.75})	Adverse comment probable (m/s ^{1.75})
Residential buildings – 16 hour day (7am to 11pm) ¹	0.2 to 0.4	0.4 to 0.8	0.8 to 1.6
Residential buildings – 8 hour night (11pm to 7am) ¹	0.13	0.26	0.51

Note 1: Day time and nighttime as described in BS6472:1992 (as referenced in the CNVS), i.e. a daytime period of 16 h or a nighttime period of 8 h, for example 23.00 h to 07.00 h.

3.4.2 Buildings

Potential building damage from construction vibration requires the application of values in BS 7385 Part 2-1993 *Evaluation and measurement for vibration in buildings Part 2*. These values are presented in Table 8 and relate to transient vibration which does not give rise to resonant responses in structures, and to low-rise buildings.

Table 8 Guideline values for vibration velocity for the effects of short-term vibration on structures (BS 7385).

Line	Type of building	Peak component particle velocity in frequency range of predominant pulse	
		4 Hz to 15 Hz	15 Hz and above
1	Reinforced or framed structures Industrial and heavy commercial buildings	50	
2	Unreinforced or light framed structures Residential or light commercial type buildings	15 at 4 Hz increasing to 20 mm/s at 15 Hz	20 mm/s at 15 Hz to 50 mm/s at 40 Hz and above

Where vibration may give rise to magnification due to resonance, especially at lower frequencies where lower guide values apply, the guide values may be reduced by 50%. The CNVS describes rock breaking/hammering and sheet piling activities as having potential to cause dynamic loading in some structures (e.g. residences).

For activity involving rock breakers, piling rigs, vibratory rollers, excavators, vibration predominantly occurs at frequencies in the 10 Hz to 100 Hz range. On this basis, a conservative vibration damage screening level is:

- Reinforced or framed structures: 25.0 mm/s
- Unreinforced or light framed structures: 7.5 mm/s

3.4.3 Heritage

No structures (including heritage) were identified to be structurally unsound across the WTP. On this basis, a cosmetic damage objective of 2.5mm/s peak component particle velocity (from DIN 4150) would not be needed. Instead, the guideline values from Table 8 would be applicable.

3.4.4 Additional mitigation measures

The CNVS recommends additional mitigation measures where all standard mitigation measures to minimise vibration at the nearest receivers have been implemented and vibration is still predicted to exceed the maximum guideline values. The Additional Mitigation Measures Matrix (AMMM) for vibration from the CNVS is presented in Table 9.

Table 9 Additional Vibration Mitigation Measures (CNVS)

Construction hours	Mitigation measures where predicted vibration levels exceed maximum levels
Approved hours Monday – Friday: 7am – 6pm, Saturday: 8am to 6pm	LB, M, RO
Evening Monday – Friday: 6pm – 10pm; Saturday: 7am – 8am, 6pm – 10pm; Sunday / PH: 8am – 6pm	LB, M, IB, PC, RO, SN
Night Monday – Saturday: 10am – 7am Saturday: 10pm – 8am); Sunday / PH: 6pm – 7am	LB, M, IB, PC, RO, SN, AA

4 Impact assessment

Predictions of noise impacts were performed using KNOWnoise™, a project-specific noise assessment tool developed by Hutchison Weller for the CTP and WTP Project. KNOWnoise calculates the maximum $L_{Aeq,15\text{minute}}$ noise level for each identified receiver for each proposed activity using predictions from SoundPlan noise modelling software. Predictions include geometric spreading, air and ground absorptions as well as topographical and structural screening and reflection.

The following components were incorporated in the model:

- Topography – Based on terrain data of 1 m resolution.
- Individual sensitive receivers – Worst-affected façade of each building to 700 metres from the works
- Construction noise sources – Activities and equipment provided by GLC were included in the noise model as individual sources across the nominated work areas for each activity. The maximum predicted L_{Aeq} noise level within each work area was identified for each receiver.
- Cumulative impacts – all activities with overlapping time periods are included in cumulative results
- Source height – construction noise sources assumed to be at 1.5 metres above ground level.
- Ground Absorption – Ground assumed to be mixed hard and soft with absorption factor of 0.5
- Meteorology – worst-case meteorological conditions (gentle breeze from source to receiver and stable conditions).
- Residential building structures are included in the model, meaning screening provided by neighbouring houses is considered.
- Results are shown for all floors of assessed buildings with the worst-case façade result assumed for the whole floor.

The sound power levels and ultimate predicted noise levels will depend on the number of plant items operating at any one time and their precise location relative to a sensitive receiver. In practice, the predicted levels will vary due to plant moving around the site and not operating intensively or concurrently for a 15-minute assessment period. Shielding and reflection provided by buildings will also vary as plant moves around the site. Therefore, predicted noise levels are conservative.

This DNVIS has been prepared as per below to assist with interpreting Noise and Vibration Impacts:

- **Section 4.1:** provides a summary of work activities and relevant noise scenarios.
- **Section 4.2-4.11:** Summarises the predicted noise and vibration impacts by stage of works.
- **Appendix A:** Lists the plant and equipment (including % usage) for each stage of works under relevant noise model scenarios.
- **Appendix B:** Presents the predicted noise impacts visually on a map for each stage of works
- **Appendix C:** Provides detailed noise and vibration impacts for all sensitive receivers affected.

4.1 Work Activities and Relevant Noise Scenarios

The proposed work steps listed in section 1.2 were modelled into separate work scenarios based on list of plant as well as work period being either OOHW1 or OOHW2. As some of the sub-steps are similar in terms of plant, utilisation, and work periods, same work scenario was used over different steps (e.g. traffic control mobilisation for steps 1,2, and 4). In some cases where minor changes in plant utilisation are present between different sub-steps, worst case scenario models were developed to cover those differences. Work steps vs noise model scenarios can be summarised in **Table 10**.

Detailed Noise and Vibration Impact Statement

Table 10 Summary of work steps versus noise model scenarios.

Night	Step 1								Step2							
Activity	TC Mobilisation	Remove Traffic Barriers	Break out asphalt Ramp	Saw Cut concrete	Break out and remove concrete	Lay and Compact Soil	Reinstate Asphalt ramp and Traffic Barriers	Remediation and demobilisation	TC Mobilisation	Remove Traffic Barriers	Break out and remove Asphalt Ramp	Form kerb	Pour kerb and cure	Reinstate ramp and kerb protection measures	Reinstate Asphalt ramp and Traffic Barriers	Remediation and demobilisation
Noise model	OOHW1_TC: Traffic Control Mobilisation	OOHW1_RTb: Remove Traffic Barriers	OOHW1and2_BRC: Breakout and Remove Concrete		OOHW2_LCS_N1: Lay and Compact Soil	OOHW2_RD_N1andN2: Reinstate Asphalt Ramp and Barriers + Remediation and Demobilisation		OOHW1_TC: Traffic Control Mobilisation	OOHW1_RTb: Remove Traffic Barrier	OOHW1and2_BRC: Breakout and Remove Concrete	OOHW2_FPC_N2: Form Pour and Cure Kerb	OOHW2_RD_N1andN2: Reinstate Asphalt Ramp and Barriers + Remediation and Demobilisation				
night	Step 3							Step 4								
Activity	TC Mobilisation	Remove Traffic Barriers	Ramp Break out	Milling	Asphalting	Temporary linemarking	Remediation and demobilisation	TC Mobilisation	Linemarking	Remediation and demobilisation						
Noise model	OOHW1_TC_N3: Traffic Control Mobilisation	OOHW1_RTb_N3: Remove Traffic Barrier	OOHW12_BMATR_N3: Breakout Asphalt Ramp Milling Asphalting Linemarking and Demobilisation				OOHW1_TC: Traffic Control Mobilisation	OOHW1and2_LD_N4: Linemarking and Demobilisation								

Notes:

OOHW1: Out of Hours Work period 1 (Evenings) TC: Traffic Control RTB: Remove Traffic Barriers OOH1and2/ OOH12: Out of Hours Work periods 1 & 2 (Evenings & Nights) BRC: Breakout and Remove Concrete
OOHW2: Out of Hours Work period 2 (Nights) LCS: Lay and Compact Soil RD: Reinstate and Demobilise N1: Night 1 N2: Night 2
FPC: Form Pour and Cure N3: Night 3 BMATR: Breakout, Milling, Asphalting, Temporary linemarking, and Remediation and demobilisation LD: Linemarking and Demobilisation

4.2 Scenario: OOHW1_TC: Traffic Control Mobilisation

4.2.1 Predicted Noise Level

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 11 presents the worst-case predicted noise level of 56.3 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 11 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	56.3 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 12 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 ≤ 10 dB above NML	2
Clearly Audible	10 ≤ 20 dB above NML	0
Moderately Intrusive	20 ≤ 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 13 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 ≤ 10 dB above NML	2
Clearly Audible	10 ≤ 20 dB above NML	0
Moderately Intrusive	20 ≤ 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 14 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 ≤ 10 dB above NML	2
Clearly Audible	10 ≤ 20 dB above NML	0

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 15 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	2
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 15 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{max} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 15 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	0
Exceed 65 dBA awakening criterion	0

4.2.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 16 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.3 Scenario: OOHW1_RTB: Remove Traffic Barriers

4.3.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 17 presents the worst-case predicted noise level of 59.4 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 17 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	59.4 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 18 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 ≤ 10 dB above NML	3
Clearly Audible	10 ≤ 20 dB above NML	0
Moderately Intrusive	20 ≤ 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 19 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 ≤ 10 dB above NML	3
Clearly Audible	10 ≤ 20 dB above NML	0
Moderately Intrusive	20 ≤ 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 20 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 ≤ 10 dB above NML	3
Clearly Audible	10 ≤ 20 dB above NML	0

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 21 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	0
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 22 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{Amax} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 22 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	0
Exceed 65 dBA awakening criterion	0

4.3.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 23 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.4 Scenario: OOHW1and2_BRC: Breakout and Remove Concrete

4.4.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 24 presents the worst-case predicted noise level of 74.1 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 24 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	74.1 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 25 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	50
Clearly Audible	10 <= 20 dB above NML	3
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 26 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	50
Clearly Audible	10 <= 20 dB above NML	3
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 27 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	50
Clearly Audible	10 <= 20 dB above NML	3

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 28 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	50
Clearly Audible	10 <= 20 dB above NML	3
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 29 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{Amax} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 29 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	11
Exceed 65 dBA awakening criterion	0

4.4.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 30 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.5 Scenario: OOHW2_LCS_N1: Lay and Compact Soil

4.5.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 31 presents the worst-case predicted noise level of 62.2 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 31 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	62.2 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 32 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 33 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 34 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 35 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	17
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 36 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{max} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 36 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	0
Exceed 65 dBA awakening criterion	0

4.5.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 37 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.6 Scenario: OOHW2_RD_N1andN2: Reinstate Asphalt Ramp and Barriers + Remediation and Demobilisation

4.6.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 38 presents the worst-case predicted noise level of 61.7 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 38 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	61.7 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 39 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 40 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 41 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 42 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	14
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 43 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{Amax} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 43 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	0
Exceed 65 dBA awakening criterion	0

4.6.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 44 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.7 Scenario: OOHW2_FPC_N2: Form Pour and Cure Kerb

4.7.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 45 presents the worst-case predicted noise level of 61.3 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 45 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	61.3 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 46 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 47 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 48 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 49 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	12
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 50 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{Amax} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 50 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	0
Exceed 65 dBA awakening criterion	0

4.7.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 51 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.8 Scenario: OOHW1_TC_N3: Traffic Control Mobilisation

4.8.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 52 presents the worst-case predicted noise level of 64 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 52 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	59.1 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 53 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 54 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 55 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 56 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	3
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 57 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at LAmax noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 57 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	1
Exceed 65 dBA awakening criterion	0

4.8.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 58 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.9 Scenario: OOHW1_RTBN3: Remove Traffic Barrier

4.9.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 59 presents the worst-case predicted noise level of 65.7 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 59 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	65.7 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 60 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	14
Clearly Audible	10 <= 20 dB above NML	1
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 61 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	14
Clearly Audible	10 <= 20 dB above NML	1
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 62 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	14
Clearly Audible	10 <= 20 dB above NML	1

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 63 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	59
Clearly Audible	10 <= 20 dB above NML	1
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 64 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{max} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 64 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	27
Exceed 65 dBA awakening criterion	0

4.9.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 65 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.10 Scenario: OOHW12_BMATR_N3: Breakout Asphalt Ramp Milling Asphalting Linemarking and Demobilisation

4.10.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 66 presents the worst-case predicted noise level of 75.1 dB(A) during the works at the nearest affected receiver, resulting in 4 receivers classed as highly noise affected.

Table 66 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	75.1 dB(A)
Number of highly noise affected receivers (>75 dB)	4

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 67 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	55
Clearly Audible	10 <= 20 dB above NML	3
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 68 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	55
Clearly Audible	10 <= 20 dB above NML	3
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 69 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	55
Clearly Audible	10 <= 20 dB above NML	3

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 70 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	192
Clearly Audible	10 <= 20 dB above NML	3
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 71 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{Amax} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 71 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	27
Exceed 65 dBA awakening criterion	0

4.10.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works.

Table 72 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

4.11 Scenario: OOHW1and2_LD_N4: Linemarking and Demobilisation

4.11.1 Predicted noise levels

Predicted impact classes for the period are illustrated graphically in Appendix B. Each identified receiver in the study area has been coloured to highlight the predicted level of impact.

Detailed predicted noise levels for each potentially affected receiver are presented Appendix C.

Table 73 presents the worst-case predicted noise level of 62.5 dB(A) during the works at the nearest affected receiver, resulting in 0 receivers classed as highly noise affected.

Table 73 Summary of maximum predicted noise level and highly affected receivers for the period.

Maximum cumulative predicted $L_{Aeq, 15 \text{ minute}}$ noise level	62.5 dB(A)
Number of highly noise affected receivers (>75 dB)	0

With reference to the CNVS, the number of sensitive receivers classified in each impact class for each assessment period are summarised in the following tables.

Table 74 Summary of NML exceedance ranges for standard hours.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	4
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 75 Summary of NML exceedance ranges for outside standard hours - weekend.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	4
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 76 Summary of NML exceedance ranges for outside standard hours - evenings.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	4
Clearly Audible	10 <= 20 dB above NML	0

Impact class	Predicted noise level	Predicted number of receivers
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 77 Summary of NML exceedance ranges for outside standard hours - nights.

Impact class	Predicted noise level	Predicted number of receivers
Noticeable	0 <= 10 dB above NML	20
Clearly Audible	10 <= 20 dB above NML	0
Moderately Intrusive	20 <= 30 dB above NML	0
Highly Intrusive	> 30 dB above NML	0

Table 78 summarises the number of residents predicted to exceed the sleep disturbance screening criterion. Further analysis is also provided to indicate the number of receivers expected to be woken, at L_{Amax} noise levels greater than 65 dBA.

Where exceedances of the awakening criteria are predicted, additional care should be taken, and mitigation measures implemented in line with the CNVS.

Table 78 Summary of predicted exceedances of sleep disturbance screening criterion and awakening criterion.

Criterion	Predicted number of receivers
Potentially Sleep Disturbed (exceed RBL + 15 screening criterion)	0
Exceed 65 dBA awakening criterion	0

4.11.2 Vibration

The CNVS requires attended vibration measurements at commencement of vibration generating activities to confirm vibration levels satisfy the criteria for that activity.

There are no vibration impacts expected for this stage of the proposed works

Table 79 Predicted exceedances of vibration criteria

Impact classification	Number of potentially affected receivers
Human comfort	0
Cosmetic damage	0
Heritage structure	0

5 Controls and safeguards

The Project represents a risk of adverse impacts on sensitive receivers, particularly when working close to the project boundary and outside approved hours.

Where short term noise impacts are unavoidable, mitigation measures described in the CEMP and NVMP should be implemented together with the recommendations in Table 80. Additional mitigation measures for each receiver are identified in Appendix B and summarised in Table 81. All community and stakeholder management and liaison in relation to these works would be in accordance with the Community Communications Strategy and the Work Specific Communication Plan.

Table 80 Standard mitigation measures

Community consultation	<ul style="list-style-type: none"> Potentially affected receivers will be notified of OOH works in accordance with project requirements. Where practicable, works will be scheduled to not conflict with major student examination periods, church congregation times, and other sensitive periods identified through community consultation.
Site induction	<ul style="list-style-type: none"> All workers will be inducted to the project prior to commencing work and will be cognisant of their noise and vibration obligations under the CNVMP. Activity specific toolbox to relevant work crews prior to commencement
Behavioural practices	<ul style="list-style-type: none"> Avoid swearing and unnecessary shouting or loud radios onsite. Avoid dropping materials from height.
Equipment selection	<ul style="list-style-type: none"> Priority given to the use of quieter and less vibration emitting construction methods and plant alternatives where feasible and reasonable. The noise levels of plant and equipment would meet the maximum noise requirements of the CNVS. Use of solar-powered and/or battery-operated equipment where feasible to do so.
Use and siting of plant	<ul style="list-style-type: none"> Locate compounds away from sensitive receivers and discourage access from local roads. Plant used intermittently to be throttled down or shut down. Noise-emitting plant to be directed away from sensitive receivers where possible. Stationary plant should be located behind a structure or enclosed if practicable. Deliveries should be made as far as practical from sensitive receivers. Dedicated loading/unloading sites should be shielded where possible, if close to receivers. Plan traffic flow, parking and loading/unloading areas to minimise reversing. Avoid compression breaking on approach to the site. Where additional activities or plant may result in marginal noise increases and speed works up, consider concentrating activities at one location and complete works as quickly as possible.
Non-tonal reversing alarms.	<ul style="list-style-type: none"> Non-tonal reversing beepers (or an equivalent mechanism) must be fitted and used on all permanent construction vehicles and mobile plant used for any out of hours work.
Noise monitoring	<ul style="list-style-type: none"> Monitoring should be completed to verify the assumptions of this DNVIS as required.
Vibration monitoring	<ul style="list-style-type: none"> Attended vibration measurements should be completed at commencement of vibration generating activities predicted to occurring within safe working distances for cosmetic damage. Where monitoring demonstrates maximum levels exceeded, consider alternative methodologies/equipment

Table 81 Additional mitigation measures

Code	Measure	Description
AA	Alternative accommodation	Alternative accommodation options may be provided for residents living in close proximity to construction works that are likely to incur unreasonably high impacts over an extended period of time. Alternative accommodation will be determined on a case-by-case basis.
M	Monitoring	Where it has been identified that specific construction activities are likely to exceed the relevant noise or vibration goals, noise or vibration monitoring may be conducted at the affected receiver(s) or a nominated representative location (typically the nearest receiver where more than one receiver have been identified). Monitoring can be in the form of either unattended logging or operator attended surveys. The purpose of monitoring is to inform the relevant personnel when the noise or vibration goal has been exceeded so that additional management measures may be implemented.
IB	Individual briefings	Individual briefings are used to inform stakeholders about the impacts of high noise activities and mitigation measures that will be implemented. Communications representatives from the contractor would visit identified stakeholders at least 48 hours ahead of potentially disturbing construction activities. Individual briefings provide affected stakeholders with personalised contact and tailored advice, with the opportunity to comment on the project.
LB	Letterbox drops	For each Sydney Metro project, a newsletter is produced and distributed to the local community via letterbox drop and the project mailing list. These newsletters provide an overview of current and upcoming works across the project and other topics of interest. The objective is to engage and inform and provide project-specific messages. Advanced warning of potential disruptions (e.g. traffic changes or noisy works) can assist in reducing the impact on the community. Content and newsletter length is determined on a project-by-project basis. Most projects distribute notifications on a monthly basis. Each newsletter is graphically designed within a branded template.
RO	Respite offer	The purpose of a project specific respite offer is to provide residents subjected to lengthy periods of noise or vibration respite from an ongoing impact.
PC	Phone calls	Phone calls and/or emails detailing relevant information would be made to identified/affected stakeholders within 7 days of proposed work. Phone calls and/or emails provide affected stakeholders with personalised contact and tailored advice, with the opportunity to provide comments on the proposed work and specific needs etc.
SN	Specific notifications	Specific notifications would be letterbox dropped or hand distributed to identified stakeholders no later than 7 days ahead of construction activities that are likely to exceed the noise objectives. This form of communication is used to support periodic notifications, or to advertise unscheduled works.

5.1 Implement any project specific mitigation measures

Specific notification will be sent to business/residents within a 200m radius of the work site closer to the proposed works dates, Specific mitigation measures, developed in consultation with potentially affected receivers will be reviewed, considered and implemented by GLC where reasonable and feasible to do so.

Appendix A Proposed activities and associated sound power levels

Note - all stages are works are expected to occur from 02/03/2026 and 13/03/2026 and would typically be undertaken outside standard hours in accordance with the Roads Authority Approval and in line with EPL condition L5.8(e)

Scenario: OOHW1_TC: Traffic Control Mobilisation

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	50%	5	85
Generator (petrol 2.5kVA)	1	50%	5	97
Light vehicle	2	75%	5	82
Hand Tools (electric)	1	10%	5	79
Tipper Truck	1	10%	5	83

Activity Sound Power Level: 98

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario: OOHW1_RTb: Remove Traffic Barrier

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	50%	5	85
Generator (petrol 2.5kVA)	1	50%	5	97
Light vehicle	2	75%	5	82
Telehandler	1	100%	5	95
Hand Tools (electric)	1	10%	5	79
Excavator (15 tonne)	1	50%	5	95

Activity Sound Power Level: 101

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario: OOHW1and2_BRC: Breakout and Remove Concrete

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	100%	5	88
Generator (petrol 2.5kVA)	1	100%	5	100
Light vehicle	2	50%	5	80
Hand Tools (electric)	1	50%	5	86
Tipper Truck	1	50%	5	90
Excavator 12 t (1000 kg Breaker) *	1	40%	5	109
Vacc truck	1	50%	5	104
Water Tanker (8000 litre)	1	50%	5	95
Circular Saw*	1	40%	5	96

Activity Sound Power Level: 111

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario: OOHW2_LCS_N1: Lay and Compact Soil

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	100%	5	88
Excavator (15 tonne)	1	50%	5	95
Generator (petrol 2.5kVA)	1	100%	5	100
Hand Tools (electric)	1	50%	5	86
Light vehicle	2	50%	5	80
Tipper Truck	1	50%	5	90
Vibratory roller 20 t (static)	1	50%	5	96
Water Tanker (8000 litre)	1	50%	5	95

Activity Sound Power Level: 104

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario: OOHW2_RD_N1andN2: Reinstate Asphalt Ramp and Barriers + Remediation and Demobilisation

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	100%	5	88
Excavator (15 tonne)	1	50%	5	95
Generator (petrol 2.5kVA)	1	100%	5	100
Hand Tools (electric)	1	50%	5	86
Light vehicle	2	50%	5	80
Tipper Truck	1	50%	5	90
Water Tanker (8000 litre)	1	50%	5	95
Telehandler	1	50%	5	92

Activity Sound Power Level: 103

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario: OOHW2_FPC_N2: Form Pour and Cure Kerb

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	100%	5	88
Generator (petrol 2.5kVA)	1	100%	5	100
Hand Tools (electric)	1	50%	5	86
Light vehicle	2	50%	5	80
Tipper Truck	1	50%	5	90
Water Tanker (8000 litre)	1	50%	5	95
Concrete Truck / Agitator - discharging	1	50%	5	91
Concrete Vibrator	1	50%	5	92

Activity Sound Power Level: 103

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario: OOHW1_TC_N3: Traffic Control Mobilisation

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	50%	5	85
Generator (petrol 2.5kVA)	1	50%	5	97
Light vehicle	2	75%	5	82
Telehandler	1	10%	5	85
Tipper Truck	1	10%	5	83
Vacc truck	1	10%	5	97
Hand Tools (electric)	1	10%	5	79

Activity Sound Power Level: 100

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario OOHW1_RTB_N3: Remove Traffic Barrier

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	100%	5	88
Generator (petrol 2.5kVA)	1	100%	5	100
Light vehicle	2	75%	5	82
Telehandler	1	100%	5	95
Hand Tools (electric)	1	10%	5	79
Excavator (15 tonne)	1	50%	5	95
Multi Tyred Roller	1	10%	5	96
Paving Machine	1	10%	5	97
Road Profiler	1	10%	5	99
Roller (non-vibratory) *	1	10%	5	90
Truck (12-15 tonne)	2	10%	5	94
Tipper Truck	1	10%	5	83
Vacc truck	1	10%	5	97
Water Tanker (8000 litre)	1	10%	5	88

Activity Sound Power Level: 106

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

Scenario: OOHW12_BMATR_N3: Breakout Asphalt Ramp Milling Asphalting Linemarking and Demobilisation

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	100%	5	88
Generator (petrol 2.5kVA)	1	100%	5	100
Light vehicle	2	25%	5	77
Hand Tools (electric)	1	50%	5	86
Tipper Truck	1	30%	5	88
Excavator 12 t (1000 kg Breaker) *	1	30%	5	108
Vacc truck	1	30%	5	102
Water Tanker (8000 litre)	1	30%	5	93
Multi Tyred Roller	1	30%	5	101
Paving Machine	1	30%	5	102
Road Profiler	1	30%	5	104
Roller (non-vibratory) *	1	30%	5	95
Telehandler	1	20%	5	88
Truck (12-15 tonne)	2	20%	5	97
Leaf blower	1	30%	5	100

Activity Sound Power Level: 112

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

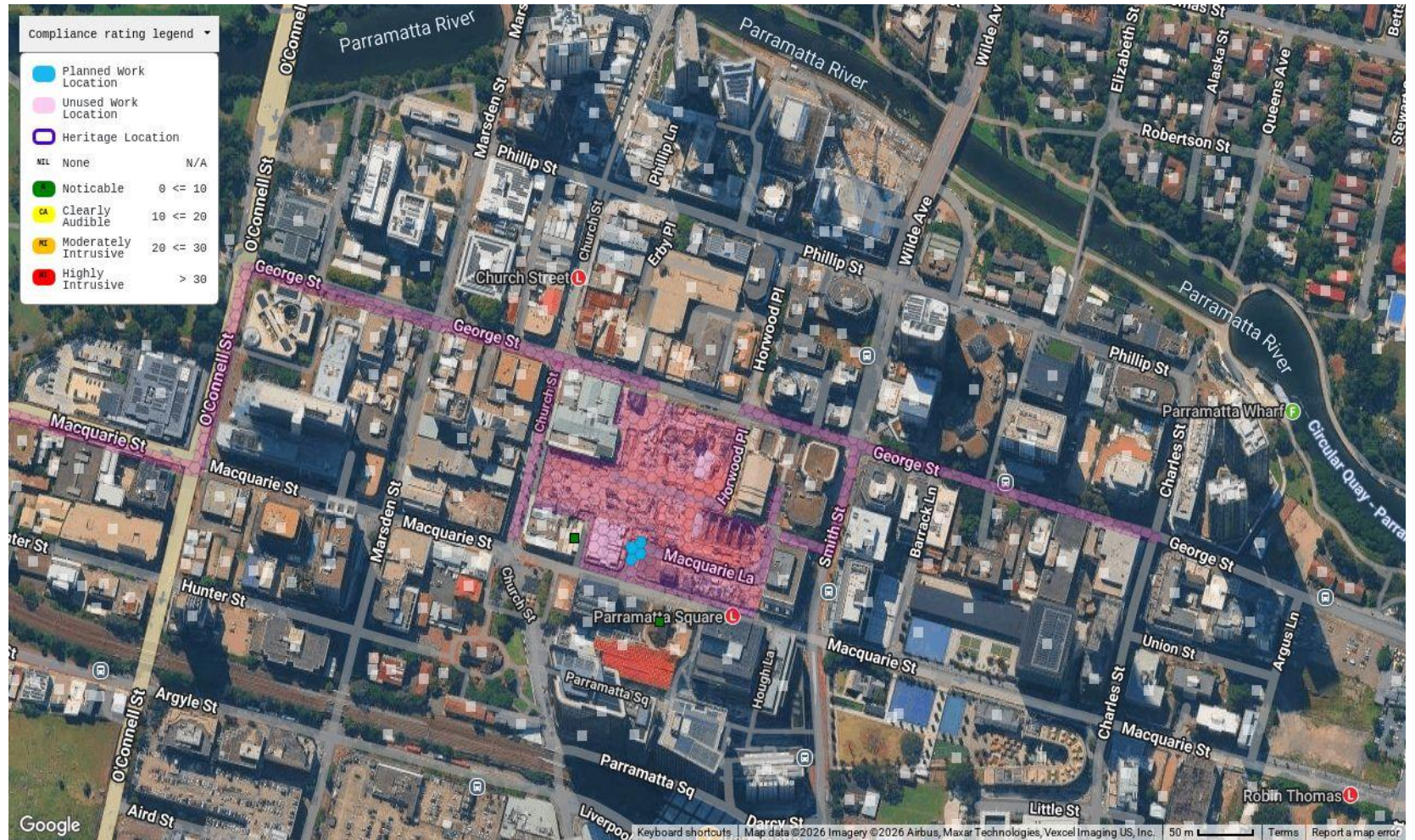
Scenario: OOHW1and2_LD_N4: Linemarking and Demobilisation

Equipment	Quantity	Usage	Reduction	SWL
Daymakers / Lighting plant	1	100%	5	88
Generator (petrol 2.5kVA)	1	100%	5	100
Hand Tools (electric)	1	50%	5	86
Leaf blower	1	30%	5	100
Light vehicle	2	25%	5	77
Tipper Truck	1	40%	5	89
Water Tanker (8000 litre)	1	40%	5	94
Line Marking Plant	1	40%	5	84

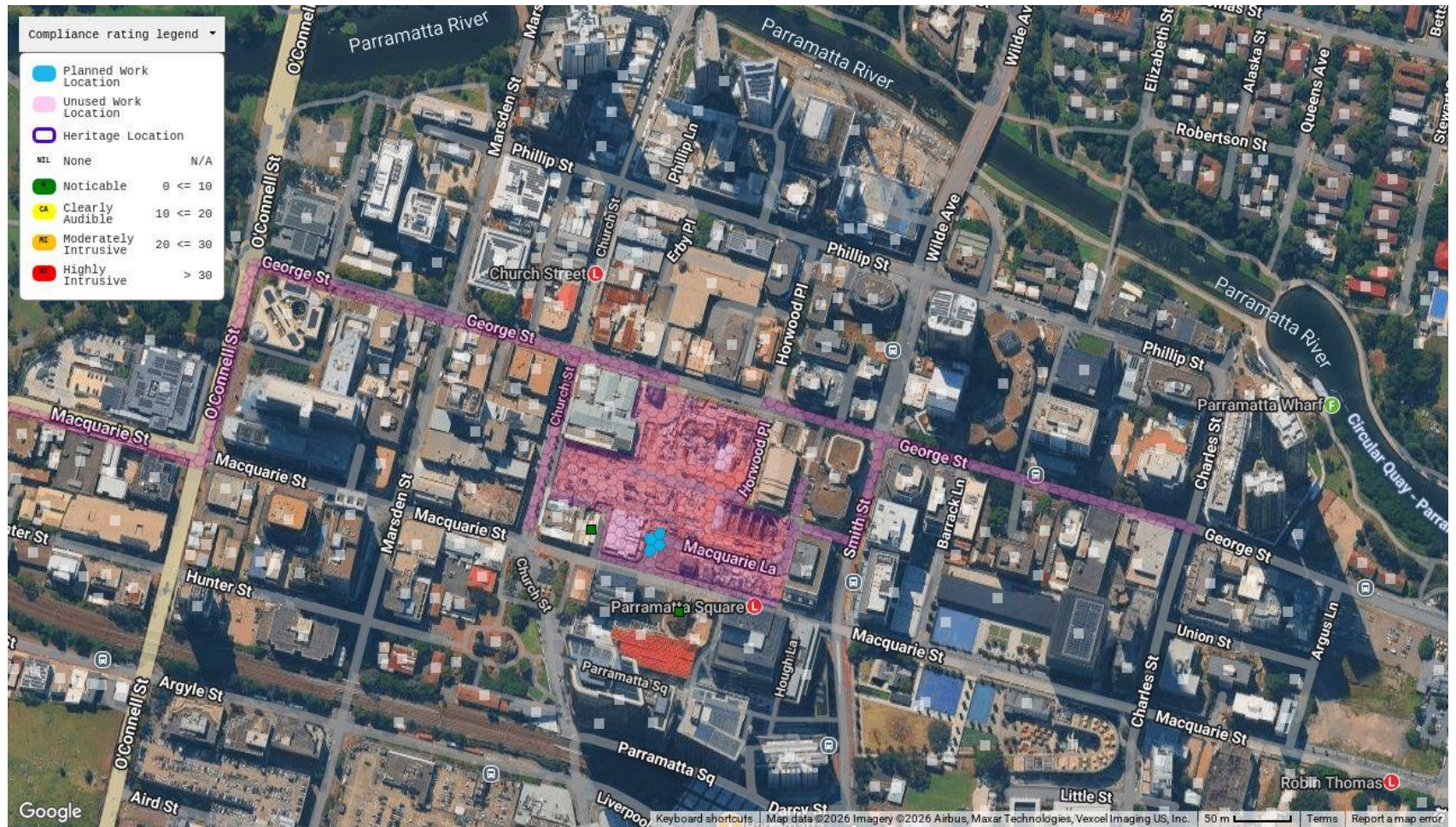
Activity Sound Power Level: 104

* Includes 5 dB penalty for potentially annoying characteristics in line with the ICNG

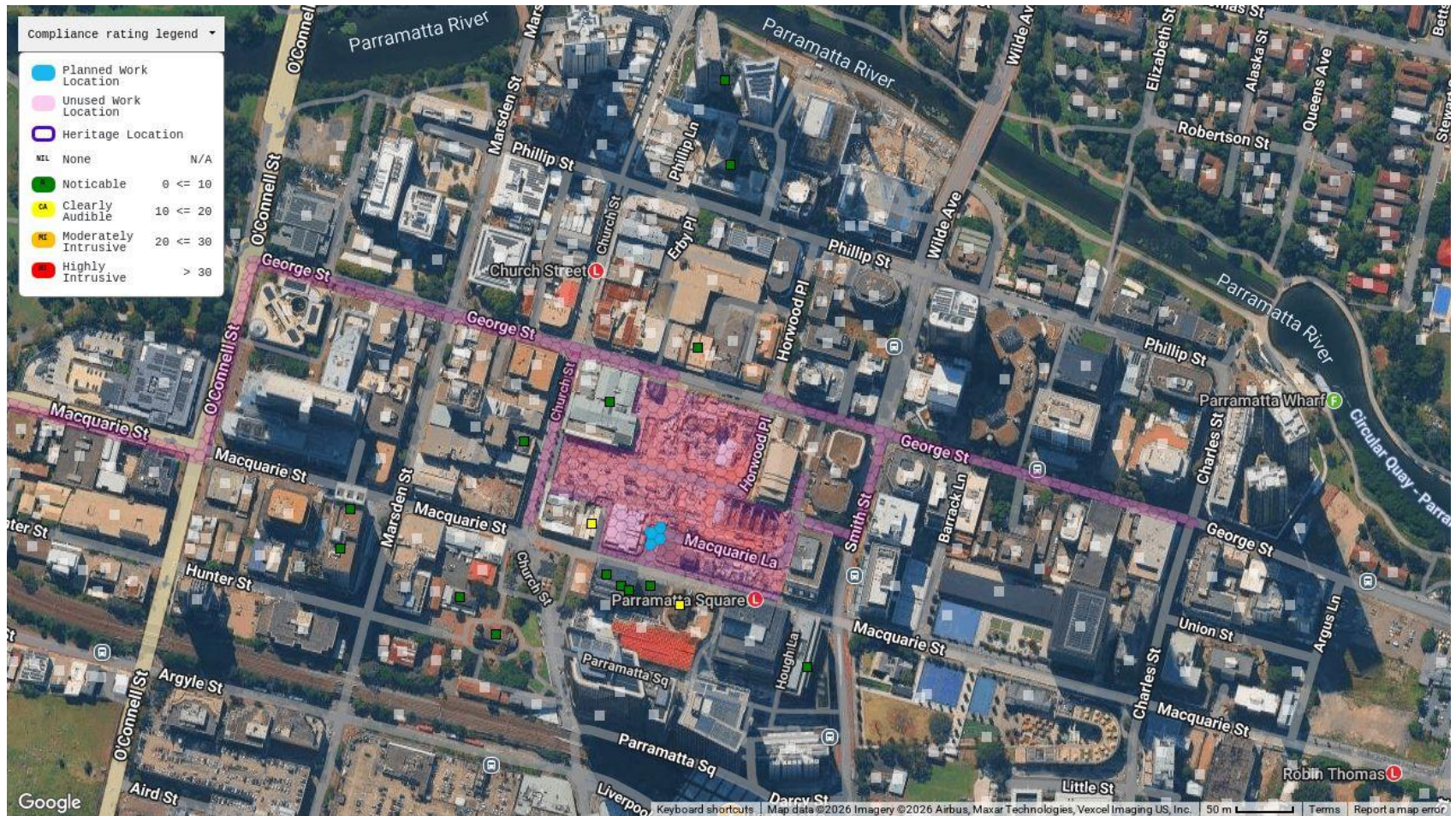
**Appendix B:
OOHW1_TC: Traffic
Control Mobilisation**



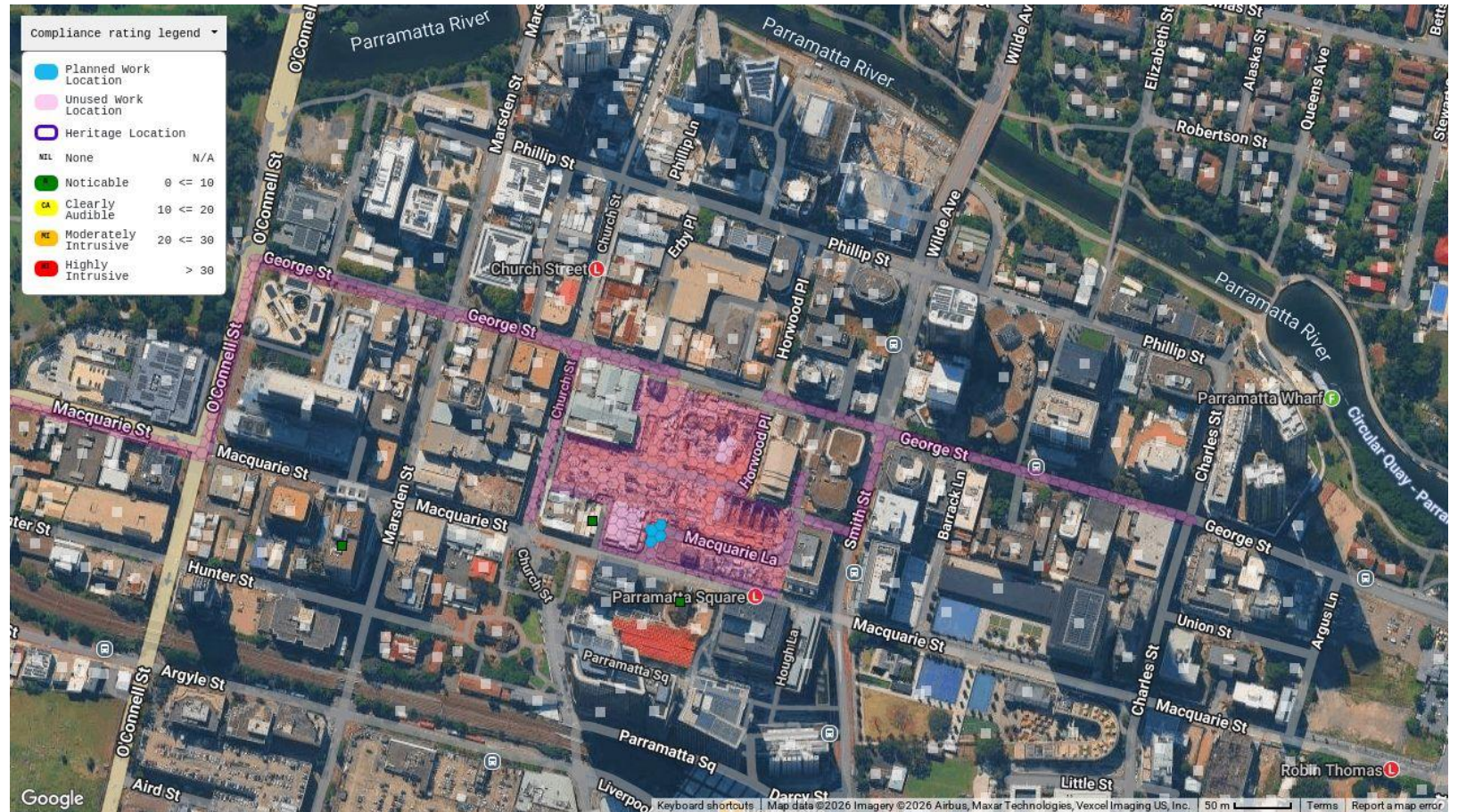
**Appendix B:
OOHW1_RTb:
Remove Traffic Barrier**



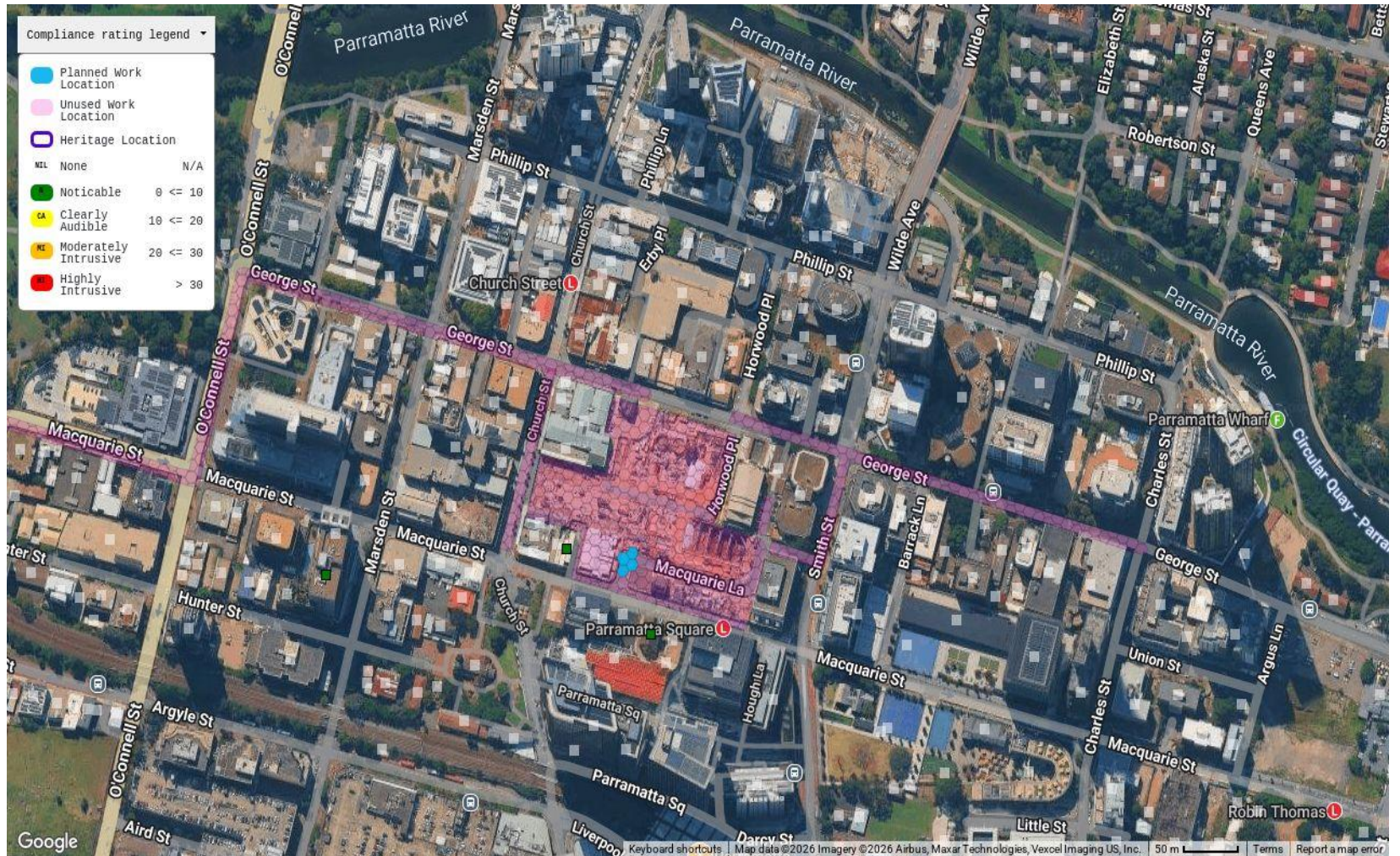
**Appendix B:
OOHW1and2_BRC:
Breakout and
Remove Concrete**



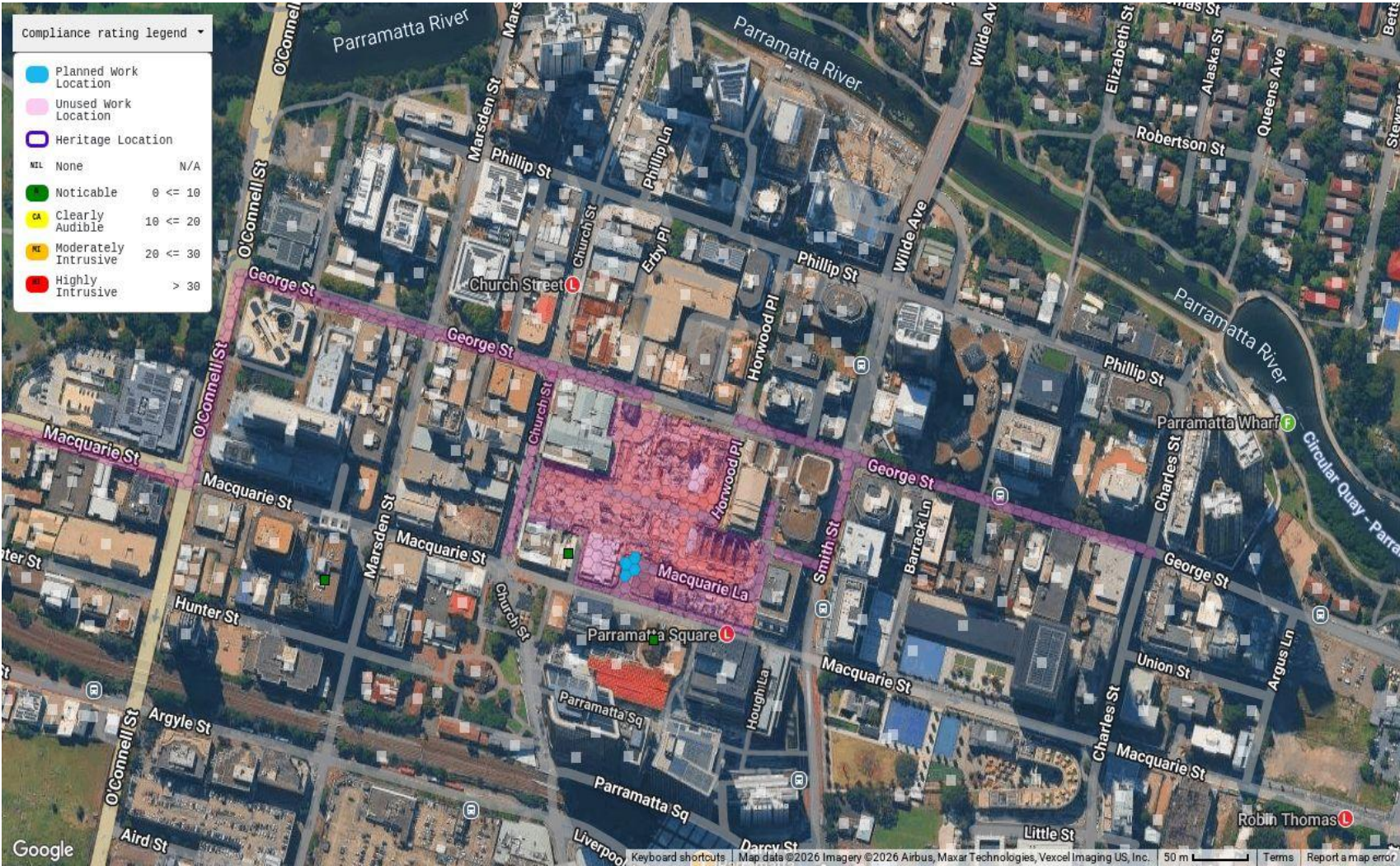
Appendix B: OOHW2
_LCS_N1:
Lay and Compact Soil



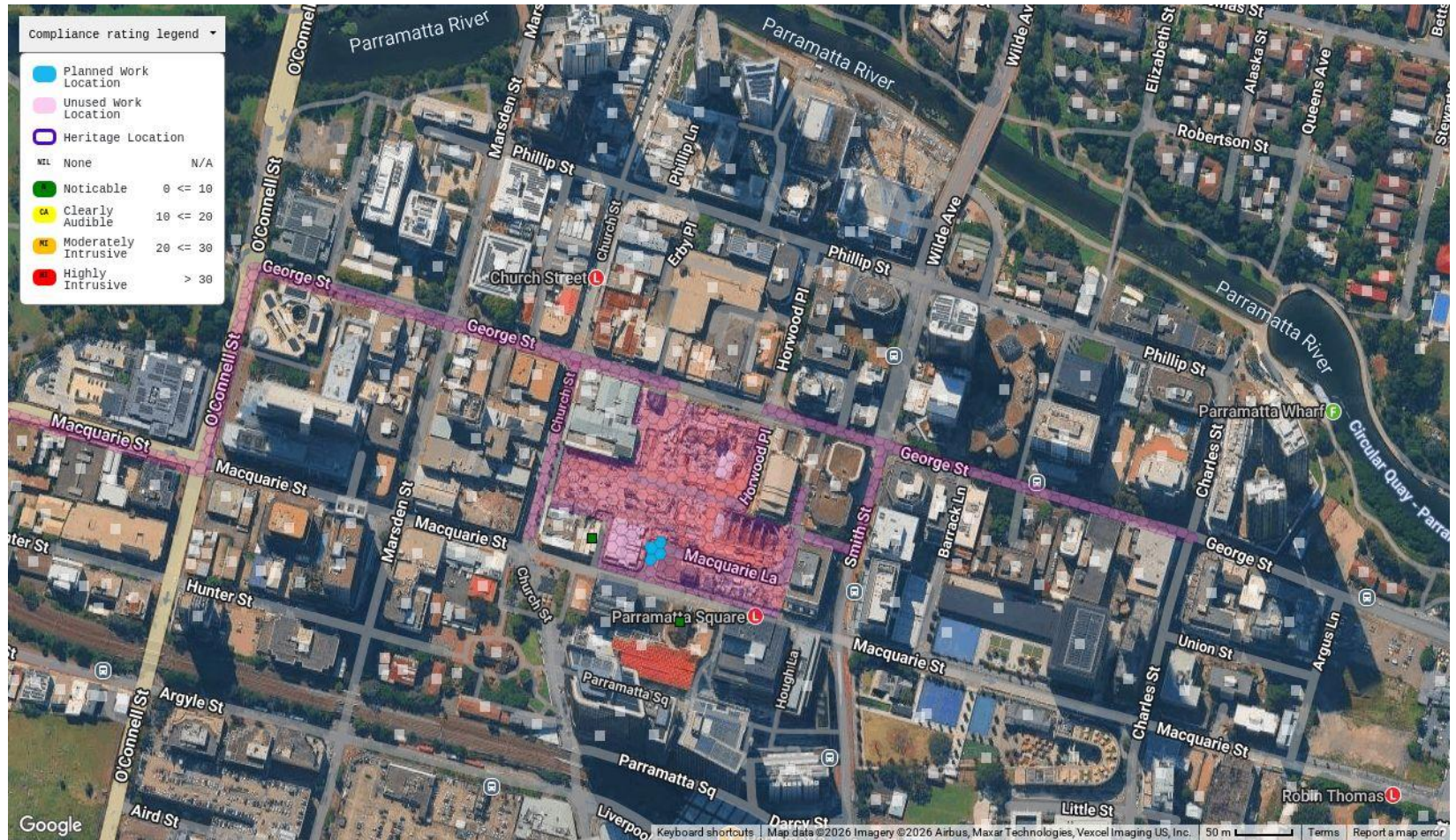
**Appendix B: OOHW2
_RD_N1andN2:
Reinstate Asphalt Ramp
and Barriers +
Remediation and
Demobilisation**



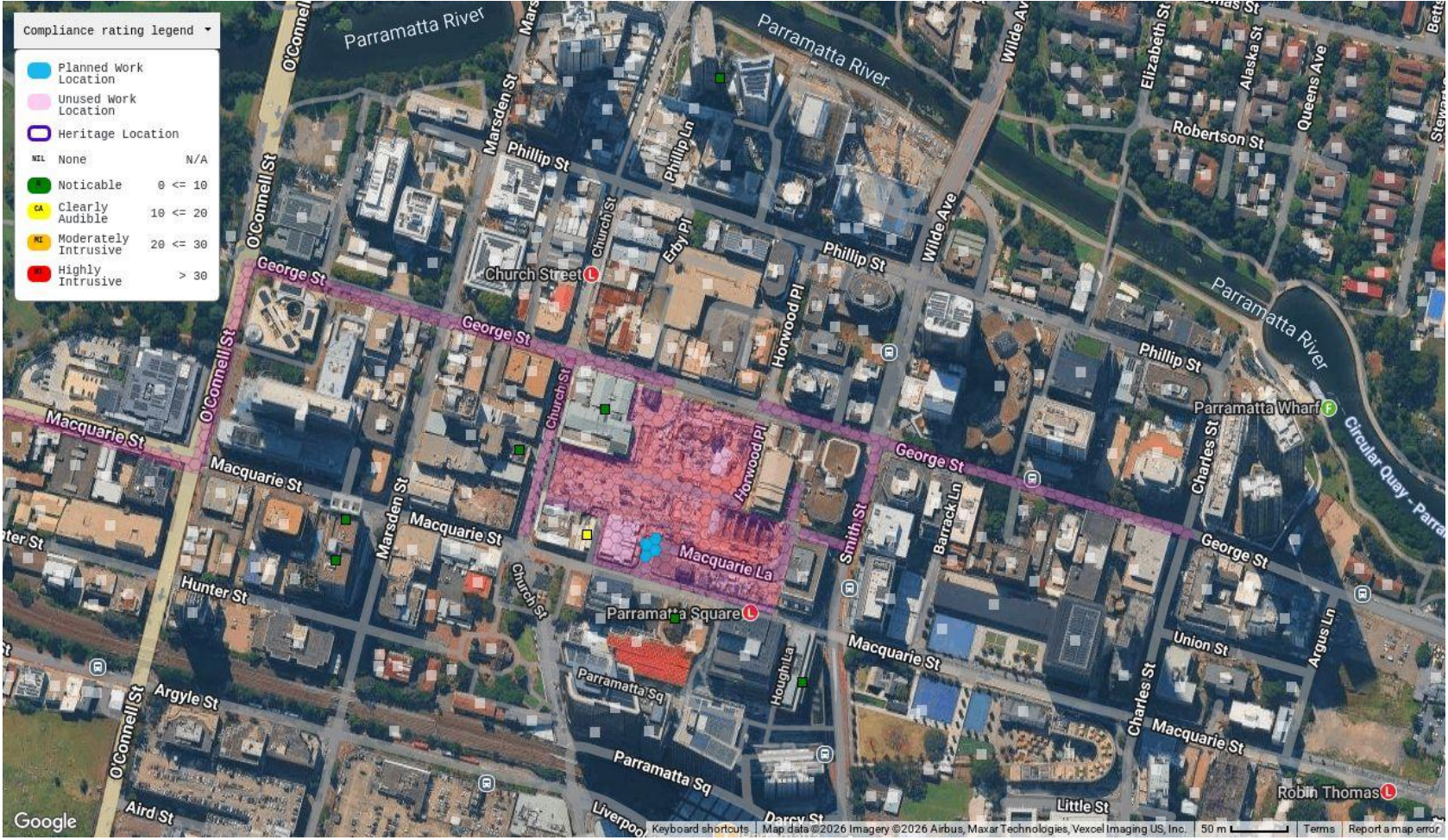
**Appendix B: OOHW2_
FPC_N2: Form Pour
and Cure Kerb**



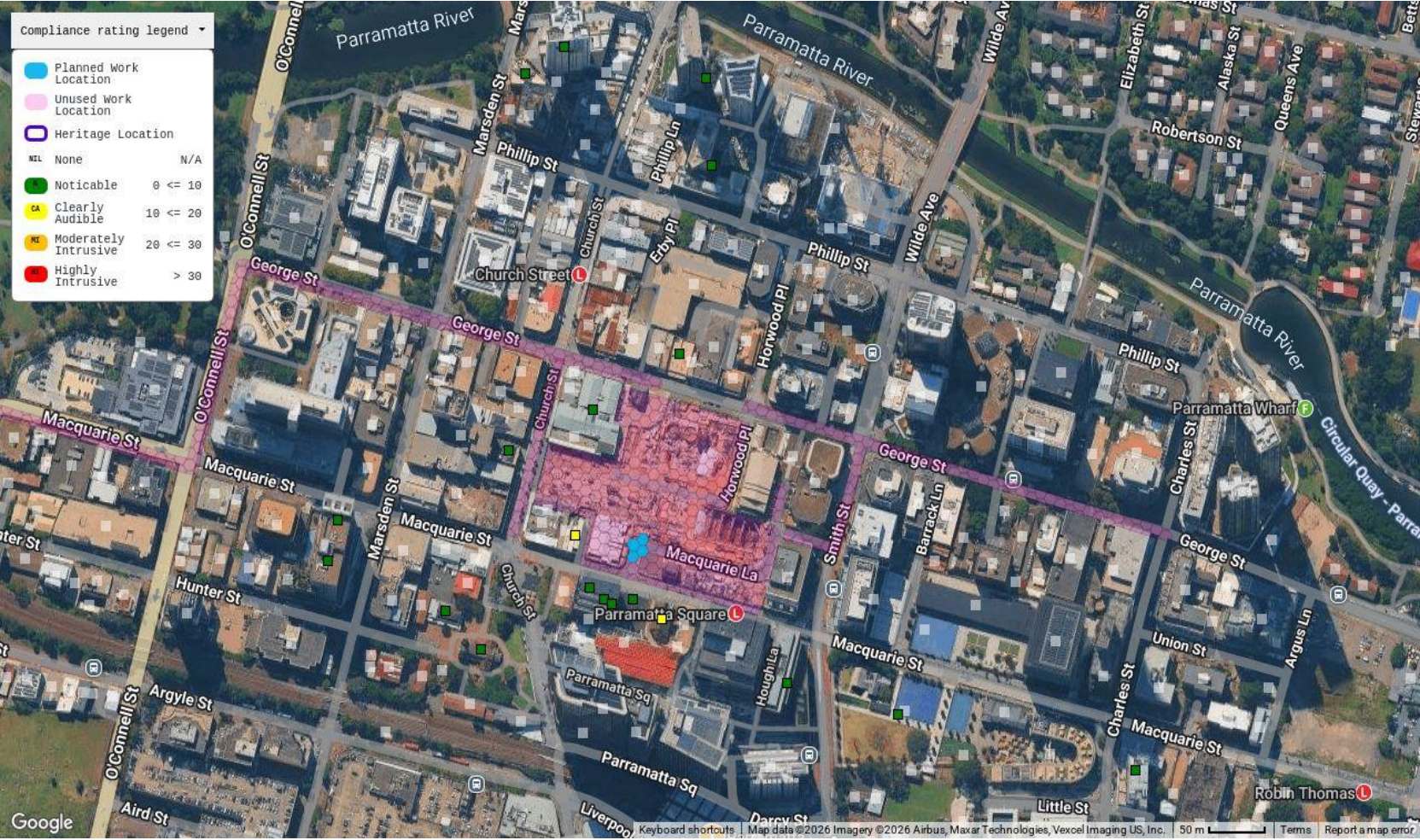
Appendix B: OOHW1
_TC_N3:
Traffic Control
Mobilisation



**Appendix B: OOHW1
_RTB_N3:
Remove Traffic
Barrier**



**Appendix B: OOHW12
_BMATR_N3:
Breakout Asphalt
Ramp Milling
Asphalting
Linemarking and
Demobilisation**



Appendix C: OOHW1_TC: Traffic Control Mobilisation Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55			55.7	59.1		0.7	0.7	0.7	0.7	-	0.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			56.3	59.7		1.3	1.3	1.3	1.3	-	1.3	Noticeable	Noticeable	Noticeable	Noticeable

Construction noise impact statement

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW1_RT B: Remove Traffic Barrier Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55			57.4	59.7		2.4	2.4	2.4	2.4	-	2.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55			58.8	61.1		3.8	3.8	3.8	3.8	-	3.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			59.4	61.7		4.4	4.4	4.4	4.4	-	4.4	Noticeable	Noticeable	Noticeable	Noticeable

Construction noise impact statement

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW1and2_BRC: Breakout and Remove Concrete Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7445 66	95 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			73	75.1		3	3	3	3	-	3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 67	95 MACQUARIE ST, PARRAMATTA	4	COM	70	70	70	70			72.8	74.9		2.8	2.8	2.8	2.8	-	2.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 68	95 MACQUARIE ST, PARRAMATTA	5	COM	70	70	70	70			72.5	74.6		2.5	2.5	2.5	2.5	-	2.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 69	95 MACQUARIE ST, PARRAMATTA	1	COM	70	70	70	70			71.6	73.7		1.6	1.6	1.6	1.6	-	1.6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 70	95 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			73.1	75.2		3.1	3.1	3.1	3.1	-	3.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 77	99 MACQUARIE ST, PARRAMATTA	1	COM	70	70	70	70			72.8	74.9		2.8	2.8	2.8	2.8	-	2.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 78	99 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			74.1	76.2		4.1	4.1	4.1	4.1	-	4.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 79	99 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			74	76.1		4	4	4	4	-	4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7446 80	244 CHURCH ST, PARRAMATTA	1	EDU	55	55	55	55			62.4	64.5		7.4	7.4	7.4	7.4	-	7.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 57	119 MACQUARIE ST, PARRAMATTA	5	aREC	65	65	65	65			70	72.1		5	5	5	5	-	5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 58	119 MACQUARIE ST, PARRAMATTA	6	aREC	65	65	65	65			69.8	71.9		4.8	4.8	4.8	4.8	-	4.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 59	119 MACQUARIE ST, PARRAMATTA	7	aREC	65	65	65	65			69.6	71.7		4.6	4.6	4.6	4.6	-	4.6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55			67.6	69.7		12.6	12.6	12.6	12.6	-	12.6	Clearly Audible	Clearly Audible	Clearly Audible	Clearly Audible
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55	Y		69	71.1		14	14	14	14	-	14	Clearly Audible	Clearly Audible	Clearly Audible	Clearly Audible
NCA03	7447 62	119 MACQUARIE ST, PARRAMATTA	3	aREC	65	65	65	65			70.2	72.3		5.2	5.2	5.2	5.2	-	5.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 63	119 MACQUARIE ST, PARRAMATTA	4	aREC	65	65	65	65			70.1	72.2		5.1	5.1	5.1	5.1	-	5.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7450 75	45 MACQUARIE ST, PARRAMATTA	7	RES	68	63	58	48			48.4	50.5		0	0	0	0.4	-	0.4	None	None	None	Noticeable
NCA03	7450 76	45 MACQUARIE ST, PARRAMATTA	8	RES	68	63	58	48			49.7	51.8		0	0	0	1.7	-	1.7	None	None	None	Noticeable
NCA03	7450 77	45 MACQUARIE ST, PARRAMATTA	9	RES	68	63	58	48			50	52.1		0	0	0	2	-	2	None	None	None	Noticeable
NCA03	7450 78	45 MACQUARIE ST, PARRAMATTA	10	RES	68	63	58	48			51.4	53.5		0	0	0	3.4	-	3.4	None	None	None	Noticeable
NCA03	7450 79	45 MACQUARIE ST, PARRAMATTA	11	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7450 80	45 MACQUARIE ST, PARRAMATTA	12	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7450 81	45 MACQUARIE ST, PARRAMATTA	13	RES	68	63	58	48			52.2	54.3		0	0	0	4.2	-	4.2	None	None	None	Noticeable
NCA03	7450 82	45 MACQUARIE ST, PARRAMATTA	14	RES	68	63	58	48			52.4	54.5		0	0	0	4.4	-	4.4	None	None	None	Noticeable
NCA03	7450 83	45 MACQUARIE ST, PARRAMATTA	15	RES	68	63	58	48			52.5	54.6		0	0	0	4.5	-	4.5	None	None	None	Noticeable
NCA03	7450 84	45 MACQUARIE ST, PARRAMATTA	16	RES	68	63	58	48			52.7	54.8		0	0	0	4.7	-	4.7	None	None	None	Noticeable
NCA03	7450 85	45 MACQUARIE ST, PARRAMATTA	17	RES	68	63	58	48			52.9	55		0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7450 86	45 MACQUARIE ST, PARRAMATTA	18	RES	68	63	58	48			53.1	55.2		0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7450 87	45 MACQUARIE ST, PARRAMATTA	19	RES	68	63	58	48			53.2	55.3		0	0	0	5.2	-	5.2	None	None	None	Noticeable
NCA03	7450 88	45 MACQUARIE ST, PARRAMATTA	20	RES	68	63	58	48			53.4	55.5		0	0	0	5.4	-	5.4	None	None	None	Noticeable
NCA03	7450 89	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48			53.6	55.7		0	0	0	5.6	-	5.6	None	None	None	Noticeable
NCA03	7450 90	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48			53.7	55.8		0	0	0	5.7	-	5.7	None	None	None	Noticeable
NCA03	7450 91	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48			54	56.1		0	0	0	6	-	6	None	None	None	Noticeable

NCA03	7450 92	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48			54.4	56.5		0	0	0	6.4	-	6.4	None	None	None	Noticeable
NCA03	7450 93	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48			54.4	56.5		0	0	0	6.4	-	6.4	None	None	None	Noticeable
NCA03	7450 94	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48			54.4	56.5		0	0	0	6.4	-	6.4	None	None	None	Noticeable
NCA03	7450 95	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48			54.3	56.4		0	0	0	6.3	-	6.3	None	None	None	Noticeable
NCA03	7450 96	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48			54.3	56.4		0	0	0	6.3	-	6.3	None	None	None	Noticeable
NCA03	7450 97	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48			54.3	56.4		0	0	0	6.3	-	6.3	None	None	None	Noticeable
NCA03	7450 98	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48			54.3	56.4		0	0	0	6.3	-	6.3	None	None	None	Noticeable
NCA03	7450 99	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48			54.2	56.3		0	0	0	6.2	-	6.2	None	None	None	Noticeable
NCA03	7451 00	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48			54.2	56.3		0	0	0	6.2	-	6.2	None	None	None	Noticeable
NCA03	7451 01	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48			54.2	56.3		0	0	0	6.2	-	6.2	None	None	None	Noticeable
NCA03	7451 02	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48			54.1	56.2		0	0	0	6.1	-	6.1	None	None	None	Noticeable
NCA03	7452 52	89 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			70.2	72.3		0.2	0.2	0.2	0.2	-	0.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7453 12	330 CHURCH ST, PARRAMATTA	9	RES	68	63	58	48			48.1	50.2		0	0	0	0.1	-	0.1	None	None	None	Noticeable
NCA03	7453 13	330 CHURCH ST, PARRAMATTA	10	RES	68	63	58	48			48.2	50.3		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7453 14	330 CHURCH ST, PARRAMATTA	11	RES	68	63	58	48			49	51.1		0	0	0	1	-	1	None	None	None	Noticeable
NCA03	7453 15	330 CHURCH ST, PARRAMATTA	12	RES	68	63	58	48			49.2	51.3		0	0	0	1.2	-	1.2	None	None	None	Noticeable
NCA03	7453 16	330 CHURCH ST, PARRAMATTA	13	RES	68	63	58	48			49.5	51.6		0	0	0	1.5	-	1.5	None	None	None	Noticeable
NCA03	7453 17	330 CHURCH ST, PARRAMATTA	14	RES	68	63	58	48			49.7	51.8		0	0	0	1.7	-	1.7	None	None	None	Noticeable
NCA03	7453 18	330 CHURCH ST, PARRAMATTA	15	RES	68	63	58	48			49.8	51.9		0	0	0	1.8	-	1.8	None	None	None	Noticeable
NCA03	7453 19	330 CHURCH ST, PARRAMATTA	16	RES	68	63	58	48			49.8	51.9		0	0	0	1.8	-	1.8	None	None	None	Noticeable
NCA03	7453 20	330 CHURCH ST, PARRAMATTA	17	RES	68	63	58	48			50.1	52.2		0	0	0	2.1	-	2.1	None	None	None	Noticeable
NCA03	7453 21	330 CHURCH ST, PARRAMATTA	18	RES	68	63	58	48			50.7	52.8		0	0	0	2.7	-	2.7	None	None	None	Noticeable
NCA03	7453 22	330 CHURCH ST, PARRAMATTA	19	RES	68	63	58	48			50.6	52.7		0	0	0	2.6	-	2.6	None	None	None	Noticeable
NCA03	7453 23	330 CHURCH ST, PARRAMATTA	20	RES	68	63	58	48			51.2	53.3		0	0	0	3.2	-	3.2	None	None	None	Noticeable
NCA03	7453 24	330 CHURCH ST, PARRAMATTA	21	RES	68	63	58	48			51.7	53.8		0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7453 25	330 CHURCH ST, PARRAMATTA	22	RES	68	63	58	48			51.4	53.5		0	0	0	3.4	-	3.4	None	None	None	Noticeable
NCA03	7453 26	330 CHURCH ST, PARRAMATTA	23	RES	68	63	58	48			51.5	53.6		0	0	0	3.5	-	3.5	None	None	None	Noticeable
NCA03	7453 27	330 CHURCH ST, PARRAMATTA	24	RES	68	63	58	48			51.6	53.7		0	0	0	3.6	-	3.6	None	None	None	Noticeable
NCA03	7453 28	330 CHURCH ST, PARRAMATTA	25	RES	68	63	58	48			51.7	53.8		0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7453 29	330 CHURCH ST, PARRAMATTA	26	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 30	330 CHURCH ST, PARRAMATTA	27	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7453 31	330 CHURCH ST, PARRAMATTA	28	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 32	330 CHURCH ST, PARRAMATTA	29	RES	68	63	58	48			52.1	54.2		0	0	0	4.1	-	4.1	None	None	None	Noticeable
NCA03	7453 33	330 CHURCH ST, PARRAMATTA	30	RES	68	63	58	48			52.2	54.3		0	0	0	4.2	-	4.2	None	None	None	Noticeable
NCA03	7453 34	330 CHURCH ST, PARRAMATTA	31	RES	68	63	58	48			52.3	54.4		0	0	0	4.3	-	4.3	None	None	None	Noticeable
NCA03	7453 35	330 CHURCH ST, PARRAMATTA	32	RES	68	63	58	48			52.4	54.5		0	0	0	4.4	-	4.4	None	None	None	Noticeable
NCA03	7453 36	330 CHURCH ST, PARRAMATTA	33	RES	68	63	58	48			52.5	54.6		0	0	0	4.5	-	4.5	None	None	None	Noticeable
NCA03	7453 37	330 CHURCH ST, PARRAMATTA	34	RES	68	63	58	48			52.6	54.7		0	0	0	4.6	-	4.6	None	None	None	Noticeable
NCA03	7453 38	330 CHURCH ST, PARRAMATTA	35	RES	68	63	58	48			52.7	54.8		0	0	0	4.7	-	4.7	None	None	None	Noticeable
NCA03	7453 39	330 CHURCH ST, PARRAMATTA	36	RES	68	63	58	48			52.8	54.9		0	0	0	4.8	-	4.8	None	None	None	Noticeable
NCA03	7453 40	330 CHURCH ST, PARRAMATTA	37	RES	68	63	58	48			51.7	53.8		0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7453 41	330 CHURCH ST, PARRAMATTA	38	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 42	330 CHURCH ST, PARRAMATTA	39	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable

NCA03	7453 43	330 CHURCH ST, PARRAMATTA	40	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7453 44	330 CHURCH ST, PARRAMATTA	41	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7453 45	330 CHURCH ST, PARRAMATTA	42	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 46	330 CHURCH ST, PARRAMATTA	43	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 47	330 CHURCH ST, PARRAMATTA	44	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 48	330 CHURCH ST, PARRAMATTA	45	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 49	330 CHURCH ST, PARRAMATTA	46	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 50	330 CHURCH ST, PARRAMATTA	47	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 51	330 CHURCH ST, PARRAMATTA	48	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 52	330 CHURCH ST, PARRAMATTA	49	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 53	330 CHURCH ST, PARRAMATTA	50	RES	68	63	58	48			52	54.1		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7453 54	330 CHURCH ST, PARRAMATTA	51	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7453 55	330 CHURCH ST, PARRAMATTA	52	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7453 56	330 CHURCH ST, PARRAMATTA	53	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7453 57	330 CHURCH ST, PARRAMATTA	54	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7453 58	330 CHURCH ST, PARRAMATTA	55	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 59	330 CHURCH ST, PARRAMATTA	56	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 60	330 CHURCH ST, PARRAMATTA	57	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 61	330 CHURCH ST, PARRAMATTA	58	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 62	330 CHURCH ST, PARRAMATTA	59	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 63	330 CHURCH ST, PARRAMATTA	60	RES	68	63	58	48			51.7	53.8		0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7453 64	330 CHURCH ST, PARRAMATTA	61	RES	68	63	58	48			51.7	53.8		0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7455 16	140 CHURCH ST, PARRAMATTA	17	RES	68	63	58	48			48.8	50.9		0	0	0	0.8	-	0.8	None	None	None	Noticeable
NCA03	7455 17	140 CHURCH ST, PARRAMATTA	18	RES	68	63	58	48			49.8	51.9		0	0	0	1.8	-	1.8	None	None	None	Noticeable
NCA03	7455 18	140 CHURCH ST, PARRAMATTA	19	RES	68	63	58	48			49.9	52		0	0	0	1.9	-	1.9	None	None	None	Noticeable
NCA03	7455 19	140 CHURCH ST, PARRAMATTA	20	RES	68	63	58	48			50	52.1		0	0	0	2	-	2	None	None	None	Noticeable
NCA03	7455 20	140 CHURCH ST, PARRAMATTA	21	RES	68	63	58	48			50.6	52.7		0	0	0	2.6	-	2.6	None	None	None	Noticeable
NCA03	7455 21	140 CHURCH ST, PARRAMATTA	22	RES	68	63	58	48			50.8	52.9		0	0	0	2.8	-	2.8	None	None	None	Noticeable
NCA03	7455 22	140 CHURCH ST, PARRAMATTA	23	RES	68	63	58	48			50.3	52.4		0	0	0	2.3	-	2.3	None	None	None	Noticeable
NCA03	7455 23	140 CHURCH ST, PARRAMATTA	24	RES	68	63	58	48			50.5	52.6		0	0	0	2.5	-	2.5	None	None	None	Noticeable
NCA03	7455 24	140 CHURCH ST, PARRAMATTA	25	RES	68	63	58	48			50	52.1		0	0	0	2	-	2	None	None	None	Noticeable
NCA03	7455 25	140 CHURCH ST, PARRAMATTA	26	RES	68	63	58	48			50.1	52.2		0	0	0	2.1	-	2.1	None	None	None	Noticeable
NCA03	7455 33	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48			55.9	58		0	0	0	7.9	-	7.9	None	None	None	Noticeable
NCA03	7455 34	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48			56.1	58.2		0	0	0	8.1	-	8.1	None	None	None	Noticeable
NCA03	7455 35	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48			56.2	58.3		0	0	0	8.2	-	8.2	None	None	None	Noticeable
NCA03	7455 36	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48	Y		56.4	58.5		0	0	0	8.4	-	8.4	None	None	None	Noticeable
NCA03	7455 37	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48	Y		56.7	58.8		0	0	0	8.7	-	8.7	None	None	None	Noticeable
NCA03	7455 38	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48	Y		56.7	58.8		0	0	0	8.7	-	8.7	None	None	None	Noticeable
NCA03	7455 39	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48	Y		56.6	58.7		0	0	0	8.6	-	8.6	None	None	None	Noticeable
NCA03	7455 40	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48	Y		56.6	58.7		0	0	0	8.6	-	8.6	None	None	None	Noticeable
NCA03	7455 41	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48	Y		56.6	58.7		0	0	0	8.6	-	8.6	None	None	None	Noticeable
NCA03	7455 42	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48	Y		56.5	58.6		0	0	0	8.5	-	8.5	None	None	None	Noticeable
NCA03	7455 43	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48	Y		56.5	58.6		0	0	0	8.5	-	8.5	None	None	None	Noticeable

NCA03	7455 44	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48	Y		56.5	58.6	0	0	0	8.5	-	8.5	None	None	None	Noticeable
NCA03	7455 51	45 MACQUARIE ST, PARRAMATTA	9	RES	68	63	58	48			51	53.1	0	0	0	3	-	3	None	None	None	Noticeable
NCA03	7455 52	45 MACQUARIE ST, PARRAMATTA	10	RES	68	63	58	48			52.2	54.3	0	0	0	4.2	-	4.2	None	None	None	Noticeable
NCA03	7455 53	45 MACQUARIE ST, PARRAMATTA	11	RES	68	63	58	48			52.2	54.3	0	0	0	4.2	-	4.2	None	None	None	Noticeable
NCA03	7455 54	45 MACQUARIE ST, PARRAMATTA	12	RES	68	63	58	48			54	56.1	0	0	0	6	-	6	None	None	None	Noticeable
NCA03	7455 55	45 MACQUARIE ST, PARRAMATTA	13	RES	68	63	58	48			54.2	56.3	0	0	0	6.2	-	6.2	None	None	None	Noticeable
NCA03	7455 56	45 MACQUARIE ST, PARRAMATTA	14	RES	68	63	58	48			54.4	56.5	0	0	0	6.4	-	6.4	None	None	None	Noticeable
NCA03	7455 57	45 MACQUARIE ST, PARRAMATTA	15	RES	68	63	58	48			54.6	56.7	0	0	0	6.6	-	6.6	None	None	None	Noticeable
NCA03	7455 58	45 MACQUARIE ST, PARRAMATTA	16	RES	68	63	58	48			54.7	56.8	0	0	0	6.7	-	6.7	None	None	None	Noticeable
NCA03	7455 59	45 MACQUARIE ST, PARRAMATTA	17	RES	68	63	58	48			54.9	57	0	0	0	6.9	-	6.9	None	None	None	Noticeable
NCA03	7455 60	45 MACQUARIE ST, PARRAMATTA	18	RES	68	63	58	48			55.1	57.2	0	0	0	7.1	-	7.1	None	None	None	Noticeable
NCA03	7455 61	45 MACQUARIE ST, PARRAMATTA	19	RES	68	63	58	48			55.3	57.4	0	0	0	7.3	-	7.3	None	None	None	Noticeable
NCA03	7455 62	45 MACQUARIE ST, PARRAMATTA	20	RES	68	63	58	48			55.4	57.5	0	0	0	7.4	-	7.4	None	None	None	Noticeable
NCA03	7455 63	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48			55.6	57.7	0	0	0	7.6	-	7.6	None	None	None	Noticeable
NCA03	7455 64	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48			55.8	57.9	0	0	0	7.8	-	7.8	None	None	None	Noticeable
NCA03	7456 24	46 GEORGE ST, PARRAMATTA	1	EDU	55	55	55	55			58.7	60.8	3.7	3.7	3.7	3.7	-	3.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7456 25	46 GEORGE ST, PARRAMATTA	2	EDU	55	55	55	55			59	61.1	4	4	4	4	-	4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7458 14	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	8	PoW	55	55	55	55			56	58.1	1	1	1	1	-	1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7458 15	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	9	PoW	55	55	55	55			56.8	58.9	1.8	1.8	1.8	1.8	-	1.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7461 14	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	4	PoW	55	55	55	55			55.4	57.5	0.4	0.4	0.4	0.4	-	0.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 32	169 MACQUARIE ST, PARRAMATTA	1	EDU	55	55	55	55			55.7	57.8	0.7	0.7	0.7	0.7	-	0.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 33	169 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			56.1	58.2	1.1	1.1	1.1	1.1	-	1.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 34	169 MACQUARIE ST, PARRAMATTA	3	EDU	55	55	55	55			56.4	58.5	1.4	1.4	1.4	1.4	-	1.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 35	169 MACQUARIE ST, PARRAMATTA	4	EDU	55	55	55	55			56.7	58.8	1.7	1.7	1.7	1.7	-	1.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 36	169 MACQUARIE ST, PARRAMATTA	5	EDU	55	55	55	55			57	59.1	2	2	2	2	-	2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 37	169 MACQUARIE ST, PARRAMATTA	6	EDU	55	55	55	55			57.2	59.3	2.2	2.2	2.2	2.2	-	2.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 38	169 MACQUARIE ST, PARRAMATTA	7	EDU	55	55	55	55			57.5	59.6	2.5	2.5	2.5	2.5	-	2.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 39	169 MACQUARIE ST, PARRAMATTA	8	EDU	55	55	55	55			57.8	59.9	2.8	2.8	2.8	2.8	-	2.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 40	169 MACQUARIE ST, PARRAMATTA	9	EDU	55	55	55	55			58.1	60.2	3.1	3.1	3.1	3.1	-	3.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 41	169 MACQUARIE ST, PARRAMATTA	10	EDU	55	55	55	55			58.4	60.5	3.4	3.4	3.4	3.4	-	3.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 42	169 MACQUARIE ST, PARRAMATTA	11	EDU	55	55	55	55			58.7	60.8	3.7	3.7	3.7	3.7	-	3.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 43	169 MACQUARIE ST, PARRAMATTA	12	EDU	55	55	55	55			58.9	61	3.9	3.9	3.9	3.9	-	3.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 44	169 MACQUARIE ST, PARRAMATTA	13	EDU	55	55	55	55			59.2	61.3	4.2	4.2	4.2	4.2	-	4.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 45	169 MACQUARIE ST, PARRAMATTA	14	EDU	55	55	55	55			59.4	61.5	4.4	4.4	4.4	4.4	-	4.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 46	169 MACQUARIE ST, PARRAMATTA	15	EDU	55	55	55	55			59.8	61.9	4.8	4.8	4.8	4.8	-	4.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 47	169 MACQUARIE ST, PARRAMATTA	16	EDU	55	55	55	55			59.8	61.9	4.8	4.8	4.8	4.8	-	4.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 48	169 MACQUARIE ST, PARRAMATTA	17	EDU	55	55	55	55			59.8	61.9	4.8	4.8	4.8	4.8	-	4.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 49	169 MACQUARIE ST, PARRAMATTA	18	EDU	55	55	55	55			59.6	61.7	4.6	4.6	4.6	4.6	-	4.6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 50	169 MACQUARIE ST, PARRAMATTA	19	EDU	55	55	55	55			59.2	61.3	4.2	4.2	4.2	4.2	-	4.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 51	169 MACQUARIE ST, PARRAMATTA	20	EDU	55	55	55	55			59.2	61.3	4.2	4.2	4.2	4.2	-	4.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 52	169 MACQUARIE ST, PARRAMATTA	21	EDU	55	55	55	55			59.1	61.2	4.1	4.1	4.1	4.1	-	4.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55	Y		69.6	71.7	14.6	14.6	14.6	14.6	-	14.6	Clearly Audible	Clearly Audible	Clearly Audible	Clearly Audible
NCA03	7464 82	46 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			70.8	72.9	0.8	0.8	0.8	0.8	-	0.8	Noticeable	Noticeable	Noticeable	Noticeable

NCA03	7464 83	46 MACQUARIE ST, PARRAMATTA	4	COM	70	70	70	70			70.8	72.9		0.8	0.8	0.8	0.8	-	0.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 06	30 PHILLIP ST, PARRAMATTA	7	RES	68	63	58	48			50.6	52.7		0	0	0	2.6	-	2.6	None	None	None	Noticeable
NCA03	7465 07	30 PHILLIP ST, PARRAMATTA	8	RES	68	63	58	48			51	53.1		0	0	0	3	-	3	None	None	None	Noticeable
NCA03	7465 08	30 PHILLIP ST, PARRAMATTA	9	RES	68	63	58	48			50.9	53		0	0	0	2.9	-	2.9	None	None	None	Noticeable
NCA03	7465 09	30 PHILLIP ST, PARRAMATTA	10	RES	68	63	58	48			51.3	53.4		0	0	0	3.3	-	3.3	None	None	None	Noticeable
NCA03	7465 10	30 PHILLIP ST, PARRAMATTA	11	RES	68	63	58	48			52.3	54.4		0	0	0	4.3	-	4.3	None	None	None	Noticeable
NCA03	7465 11	30 PHILLIP ST, PARRAMATTA	12	RES	68	63	58	48			51.8	53.9		0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7465 12	30 PHILLIP ST, PARRAMATTA	13	RES	68	63	58	48			51.9	54		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7465 13	30 PHILLIP ST, PARRAMATTA	14	RES	68	63	58	48			52.1	54.2		0	0	0	4.1	-	4.1	None	None	None	Noticeable
NCA03	7465 14	30 PHILLIP ST, PARRAMATTA	15	RES	68	63	58	48			52.2	54.3		0	0	0	4.2	-	4.2	None	None	None	Noticeable
NCA03	7465 52	211 CHURCH ST, PARRAMATTA	1	EDU	55	55	55	55			58.8	60.9		3.8	3.8	3.8	3.8	-	3.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 53	211 CHURCH ST, PARRAMATTA	2	EDU	55	55	55	55			59.3	61.4		4.3	4.3	4.3	4.3	-	4.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 54	211 CHURCH ST, PARRAMATTA	3	EDU	55	55	55	55			59.9	62		4.9	4.9	4.9	4.9	-	4.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 55	211 CHURCH ST, PARRAMATTA	4	EDU	55	55	55	55			60.7	62.8		5.7	5.7	5.7	5.7	-	5.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7466 93	97 MACQUARIE ST, PARRAMATTA	1	COM	70	70	70	70			72.9	75		2.9	2.9	2.9	2.9	-	2.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7466 94	97 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			74.1	76.2		4.1	4.1	4.1	4.1	-	4.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7466 95	97 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			73.9	76		3.9	3.9	3.9	3.9	-	3.9	Noticeable	Noticeable	Noticeable	Noticeable

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW2_LCS_N1: Lay and Compact Soil Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55			60.2	60.7		5.2	5.2	5.2	5.2	-	5.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55			61.6	62.1		6.6	6.6	6.6	6.6	-	6.6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7455 33	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48			48.5	49		0	0	0	0.5	-	0.5	None	None	None	Noticeable
NCA03	7455 34	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48			48.7	49.2		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7455 35	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48			48.8	49.3		0	0	0	0.8	-	0.8	None	None	None	Noticeable
NCA03	7455 36	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48			49	49.5		0	0	0	1	-	1	None	None	None	Noticeable
NCA03	7455 37	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48			49.3	49.8		0	0	0	1.3	-	1.3	None	None	None	Noticeable
NCA03	7455 38	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48			49.3	49.8		0	0	0	1.3	-	1.3	None	None	None	Noticeable
NCA03	7455 39	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48			49.2	49.7		0	0	0	1.2	-	1.2	None	None	None	Noticeable
NCA03	7455 40	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48			49.2	49.7		0	0	0	1.2	-	1.2	None	None	None	Noticeable
NCA03	7455 41	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48			49.2	49.7		0	0	0	1.2	-	1.2	None	None	None	Noticeable
NCA03	7455 42	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48			49.1	49.6		0	0	0	1.1	-	1.1	None	None	None	Noticeable
NCA03	7455 43	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48			49.1	49.6		0	0	0	1.1	-	1.1	None	None	None	Noticeable
NCA03	7455 44	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48			49.1	49.6		0	0	0	1.1	-	1.1	None	None	None	Noticeable
NCA03	7455 63	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48			48.2	48.7		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7455 64	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48			48.4	48.9		0	0	0	0.4	-	0.4	None	None	None	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			62.2	62.7		7.2	7.2	7.2	7.2	-	7.2	Noticeable	Noticeable	Noticeable	Noticeable

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW2_RD_N1andN2: Reinstate Asphalt Ramp and Barriers + Remediation and Demobilisation Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55			59.7	59.7		4.7	4.7	4.7	4.7	-	4.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55			61.1	61.1		6.1	6.1	6.1	6.1	-	6.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7455 34	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48			48.2	48.2		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7455 35	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48			48.3	48.3		0	0	0	0.3	-	0.3	None	None	None	Noticeable
NCA03	7455 36	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48			48.5	48.5		0	0	0	0.5	-	0.5	None	None	None	Noticeable
NCA03	7455 37	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48			48.8	48.8		0	0	0	0.8	-	0.8	None	None	None	Noticeable
NCA03	7455 38	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48			48.8	48.8		0	0	0	0.8	-	0.8	None	None	None	Noticeable
NCA03	7455 39	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48			48.7	48.7		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7455 40	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48			48.7	48.7		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7455 41	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48			48.7	48.7		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7455 42	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48			48.6	48.6		0	0	0	0.6	-	0.6	None	None	None	Noticeable
NCA03	7455 43	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48			48.6	48.6		0	0	0	0.6	-	0.6	None	None	None	Noticeable
NCA03	7455 44	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48			48.6	48.6		0	0	0	0.6	-	0.6	None	None	None	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			61.7	61.7		6.7	6.7	6.7	6.7	-	6.7	Noticeable	Noticeable	Noticeable	Noticeable

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW2_FPC_N2: Form Pour and Cure Kerb Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55			59.3	59.7		4.3	4.3	4.3	4.3	-	4.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55			60.7	61.1		5.7	5.7	5.7	5.7	-	5.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7455 36	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48			48.1	48.5		0	0	0	0.1	-	0.1	None	None	None	Noticeable
NCA03	7455 37	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48			48.4	48.8		0	0	0	0.4	-	0.4	None	None	None	Noticeable
NCA03	7455 38	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48			48.4	48.8		0	0	0	0.4	-	0.4	None	None	None	Noticeable
NCA03	7455 39	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48			48.3	48.7		0	0	0	0.3	-	0.3	None	None	None	Noticeable
NCA03	7455 40	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48			48.3	48.7		0	0	0	0.3	-	0.3	None	None	None	Noticeable
NCA03	7455 41	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48			48.3	48.7		0	0	0	0.3	-	0.3	None	None	None	Noticeable
NCA03	7455 42	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48			48.2	48.6		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7455 43	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48			48.2	48.6		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7455 44	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48			48.2	48.6		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			61.3	61.7		6.3	6.3	6.3	6.3	-	6.3	Noticeable	Noticeable	Noticeable	Noticeable

Construction noise impact statement

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW1_TC_N3: Traffic Control Mobilisation Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55			57.1	68.7		2.1	2.1	2.1	2.1	-	2.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55			58.5	70.1		3.5	3.5	3.5	3.5	-	3.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55	Y		59.1	70.7		4.1	4.1	4.1	4.1	-	4.1	Noticeable	Noticeable	Noticeable	Noticeable

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW1_RTBN3: Remove Traffic Barrier Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, L _{Amax}		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	L _{Max}	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7446 80	244 CHURCH ST, PARRAMATTA	1	EDU	55	55	55	55			57.9	66.5		2.9	2.9	2.9	2.9	-	2.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 57	119 MACQUARIE ST, PARRAMATTA	5	aREC	65	65	65	65			65.5	74.1		0.5	0.5	0.5	0.5	-	0.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 58	119 MACQUARIE ST, PARRAMATTA	6	aREC	65	65	65	65			65.3	73.9		0.3	0.3	0.3	0.3	-	0.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 59	119 MACQUARIE ST, PARRAMATTA	7	aREC	65	65	65	65			65.1	73.7		0.1	0.1	0.1	0.1	-	0.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55	Y		63.1	71.7		8.1	8.1	8.1	8.1	-	8.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55	Y		64.5	73.1		9.5	9.5	9.5	9.5	-	9.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 62	119 MACQUARIE ST, PARRAMATTA	3	aREC	65	65	65	65			65.7	74.3		0.7	0.7	0.7	0.7	-	0.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 63	119 MACQUARIE ST, PARRAMATTA	4	aREC	65	65	65	65			65.6	74.2		0.6	0.6	0.6	0.6	-	0.6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7450 84	45 MACQUARIE ST, PARRAMATTA	16	RES	68	63	58	48			48.2	56.8		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7450 85	45 MACQUARIE ST, PARRAMATTA	17	RES	68	63	58	48			48.4	57		0	0	0	0.4	-	0.4	None	None	None	Noticeable
NCA03	7450 86	45 MACQUARIE ST, PARRAMATTA	18	RES	68	63	58	48			48.6	57.2		0	0	0	0.6	-	0.6	None	None	None	Noticeable
NCA03	7450 87	45 MACQUARIE ST, PARRAMATTA	19	RES	68	63	58	48			48.7	57.3		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7450 88	45 MACQUARIE ST, PARRAMATTA	20	RES	68	63	58	48			48.9	57.5		0	0	0	0.9	-	0.9	None	None	None	Noticeable
NCA03	7450 89	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48			49.1	57.7		0	0	0	1.1	-	1.1	None	None	None	Noticeable
NCA03	7450 90	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48			49.2	57.8		0	0	0	1.2	-	1.2	None	None	None	Noticeable
NCA03	7450 91	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48			49.5	58.1		0	0	0	1.5	-	1.5	None	None	None	Noticeable
NCA03	7450 92	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48	Y		49.9	58.5		0	0	0	1.9	-	1.9	None	None	None	Noticeable
NCA03	7450 93	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48	Y		49.9	58.5		0	0	0	1.9	-	1.9	None	None	None	Noticeable
NCA03	7450 94	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48	Y		49.9	58.5		0	0	0	1.9	-	1.9	None	None	None	Noticeable
NCA03	7450 95	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48			49.8	58.4		0	0	0	1.8	-	1.8	None	None	None	Noticeable
NCA03	7450 96	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48			49.8	58.4		0	0	0	1.8	-	1.8	None	None	None	Noticeable
NCA03	7450 97	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48			49.8	58.4		0	0	0	1.8	-	1.8	None	None	None	Noticeable
NCA03	7450 98	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48			49.8	58.4		0	0	0	1.8	-	1.8	None	None	None	Noticeable
NCA03	7450 99	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48			49.7	58.3		0	0	0	1.7	-	1.7	None	None	None	Noticeable
NCA03	7451 00	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48			49.7	58.3		0	0	0	1.7	-	1.7	None	None	None	Noticeable
NCA03	7451 01	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48			49.7	58.3		0	0	0	1.7	-	1.7	None	None	None	Noticeable
NCA03	7451 02	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48			49.6	58.2		0	0	0	1.6	-	1.6	None	None	None	Noticeable
NCA03	7453 37	330 CHURCH ST, PARRAMATTA	34	RES	68	63	58	48			48.1	56.7		0	0	0	0.1	-	0.1	None	None	None	Noticeable
NCA03	7453 38	330 CHURCH ST, PARRAMATTA	35	RES	68	63	58	48			48.2	56.8		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7453 39	330 CHURCH ST, PARRAMATTA	36	RES	68	63	58	48			48.3	56.9		0	0	0	0.3	-	0.3	None	None	None	Noticeable
NCA03	7455 33	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48	Y		51.4	60		0	0	0	3.4	-	3.4	None	None	None	Noticeable
NCA03	7455 34	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48	Y		51.6	60.2		0	0	0	3.6	-	3.6	None	None	None	Noticeable
NCA03	7455 35	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48	Y		51.7	60.3		0	0	0	3.7	-	3.7	None	None	None	Noticeable

NCA03	7455 36	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48	Y		51.9	60.5		0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7455 37	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48	Y		52.2	60.8		0	0	0	4.2	-	4.2	None	None	None	Noticeable
NCA03	7455 38	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48	Y		52.2	60.8		0	0	0	4.2	-	4.2	None	None	None	Noticeable
NCA03	7455 39	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48	Y		52.1	60.7		0	0	0	4.1	-	4.1	None	None	None	Noticeable
NCA03	7455 40	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48	Y		52.1	60.7		0	0	0	4.1	-	4.1	None	None	None	Noticeable
NCA03	7455 41	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48	Y		52.1	60.7		0	0	0	4.1	-	4.1	None	None	None	Noticeable
NCA03	7455 42	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48	Y		52	60.6		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7455 43	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48	Y		52	60.6		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7455 44	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48	Y		52	60.6		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7455 54	45 MACQUARIE ST, PARRAMATTA	12	RES	68	63	58	48			49.5	58.1		0	0	0	1.5	-	1.5	None	None	None	Noticeable
NCA03	7455 55	45 MACQUARIE ST, PARRAMATTA	13	RES	68	63	58	48			49.7	58.3		0	0	0	1.7	-	1.7	None	None	None	Noticeable
NCA03	7455 56	45 MACQUARIE ST, PARRAMATTA	14	RES	68	63	58	48	Y		49.9	58.5		0	0	0	1.9	-	1.9	None	None	None	Noticeable
NCA03	7455 57	45 MACQUARIE ST, PARRAMATTA	15	RES	68	63	58	48	Y		50.1	58.7		0	0	0	2.1	-	2.1	None	None	None	Noticeable
NCA03	7455 58	45 MACQUARIE ST, PARRAMATTA	16	RES	68	63	58	48	Y		50.2	58.8		0	0	0	2.2	-	2.2	None	None	None	Noticeable
NCA03	7455 59	45 MACQUARIE ST, PARRAMATTA	17	RES	68	63	58	48	Y		50.4	59		0	0	0	2.4	-	2.4	None	None	None	Noticeable
NCA03	7455 60	45 MACQUARIE ST, PARRAMATTA	18	RES	68	63	58	48	Y		50.6	59.2		0	0	0	2.6	-	2.6	None	None	None	Noticeable
NCA03	7455 61	45 MACQUARIE ST, PARRAMATTA	19	RES	68	63	58	48	Y		50.8	59.4		0	0	0	2.8	-	2.8	None	None	None	Noticeable
NCA03	7455 62	45 MACQUARIE ST, PARRAMATTA	20	RES	68	63	58	48	Y		50.9	59.5		0	0	0	2.9	-	2.9	None	None	None	Noticeable
NCA03	7455 63	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48	Y		51.1	59.7		0	0	0	3.1	-	3.1	None	None	None	Noticeable
NCA03	7455 64	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48	Y		51.3	59.9		0	0	0	3.3	-	3.3	None	None	None	Noticeable
NCA03	7462 46	169 MACQUARIE ST, PARRAMATTA	15	EDU	55	55	55	55			55.3	63.9		0.3	0.3	0.3	0.3	-	0.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 47	169 MACQUARIE ST, PARRAMATTA	16	EDU	55	55	55	55			55.3	63.9		0.3	0.3	0.3	0.3	-	0.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 48	169 MACQUARIE ST, PARRAMATTA	17	EDU	55	55	55	55			55.3	63.9		0.3	0.3	0.3	0.3	-	0.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 49	169 MACQUARIE ST, PARRAMATTA	18	EDU	55	55	55	55			55.1	63.7		0.1	0.1	0.1	0.1	-	0.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55	Y		65.1	73.7		10.1	10.1	10.1	10.1	-	10.1	Clearly Audible	Clearly Audible	Clearly Audible	Clearly Audible
NCA03	7465 54	211 CHURCH ST, PARRAMATTA	3	EDU	55	55	55	55			55.4	64		0.4	0.4	0.4	0.4	-	0.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 55	211 CHURCH ST, PARRAMATTA	4	EDU	55	55	55	55			56.2	64.8		1.2	1.2	1.2	1.2	-	1.2	Noticeable	Noticeable	Noticeable	Noticeable

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOH12_BMATR_N3: Breakout Asphalt Ramp Milling Asphalting Linemarking and Demobilisation Detailed predictions

C.1 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LAmx		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7443 63	12 PHILLIP ST, PARRAMATTA	7	RES	68	63	58	48			48.3	51.3		0	0	0	0.3	-	0.3	None	None	None	Noticeable
NCA03	7443 64	12 PHILLIP ST, PARRAMATTA	8	RES	68	63	58	48			48.7	51.7		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7443 65	12 PHILLIP ST, PARRAMATTA	9	RES	68	63	58	48			48.8	51.8		0	0	0	0.8	-	0.8	None	None	None	Noticeable
NCA03	7443 66	12 PHILLIP ST, PARRAMATTA	10	RES	68	63	58	48			48.9	51.9		0	0	0	0.9	-	0.9	None	None	None	Noticeable
NCA03	7443 67	12 PHILLIP ST, PARRAMATTA	11	RES	68	63	58	48			48.7	51.7		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7443 68	12 PHILLIP ST, PARRAMATTA	12	RES	68	63	58	48			48.7	51.7		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7445 66	95 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			74.1	77.1		4.1	4.1	4.1	4.1	-	4.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 67	95 MACQUARIE ST, PARRAMATTA	4	COM	70	70	70	70			73.9	76.9		3.9	3.9	3.9	3.9	-	3.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 68	95 MACQUARIE ST, PARRAMATTA	5	COM	70	70	70	70			73.6	76.6		3.6	3.6	3.6	3.6	-	3.6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 69	95 MACQUARIE ST, PARRAMATTA	1	COM	70	70	70	70			72.7	75.7		2.7	2.7	2.7	2.7	-	2.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 70	95 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			74.2	77.2		4.2	4.2	4.2	4.2	-	4.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 77	99 MACQUARIE ST, PARRAMATTA	1	COM	70	70	70	70			73.9	76.9		3.9	3.9	3.9	3.9	-	3.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 78	99 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			75.2	78.2	Y	5.2	5.2	5.2	5.2	-	5.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7445 79	99 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			75.1	78.1	Y	5.1	5.1	5.1	5.1	-	5.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7446 80	244 CHURCH ST, PARRAMATTA	1	EDU	55	55	55	55			63.5	66.5		8.5	8.5	8.5	8.5	-	8.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 57	119 MACQUARIE ST, PARRAMATTA	5	aREC	65	65	65	65			71.1	74.1		6.1	6.1	6.1	6.1	-	6.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 58	119 MACQUARIE ST, PARRAMATTA	6	aREC	65	65	65	65			70.9	73.9		5.9	5.9	5.9	5.9	-	5.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 59	119 MACQUARIE ST, PARRAMATTA	7	aREC	65	65	65	65			70.7	73.7		5.7	5.7	5.7	5.7	-	5.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55	Y		68.7	71.7		13.7	13.7	13.7	13.7	-	13.7	Clearly Audible	Clearly Audible	Clearly Audible	Clearly Audible
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55	Y		70.1	73.1		15.1	15.1	15.1	15.1	-	15.1	Clearly Audible	Clearly Audible	Clearly Audible	Clearly Audible
NCA03	7447 62	119 MACQUARIE ST, PARRAMATTA	3	aREC	65	65	65	65			71.3	74.3		6.3	6.3	6.3	6.3	-	6.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 63	119 MACQUARIE ST, PARRAMATTA	4	aREC	65	65	65	65			71.2	74.2		6.2	6.2	6.2	6.2	-	6.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7450 75	45 MACQUARIE ST, PARRAMATTA	7	RES	68	63	58	48			49.5	52.5		0	0	0	1.5	-	1.5	None	None	None	Noticeable
NCA03	7450 76	45 MACQUARIE ST, PARRAMATTA	8	RES	68	63	58	48			50.8	53.8		0	0	0	2.8	-	2.8	None	None	None	Noticeable
NCA03	7450 77	45 MACQUARIE ST, PARRAMATTA	9	RES	68	63	58	48			51.1	54.1		0	0	0	3.1	-	3.1	None	None	None	Noticeable
NCA03	7450 78	45 MACQUARIE ST, PARRAMATTA	10	RES	68	63	58	48			52.5	55.5		0	0	0	4.5	-	4.5	None	None	None	Noticeable
NCA03	7450 79	45 MACQUARIE ST, PARRAMATTA	11	RES	68	63	58	48			52.9	55.9		0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7450 80	45 MACQUARIE ST, PARRAMATTA	12	RES	68	63	58	48			53.1	56.1		0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7450 81	45 MACQUARIE ST, PARRAMATTA	13	RES	68	63	58	48			53.3	56.3		0	0	0	5.3	-	5.3	None	None	None	Noticeable
NCA03	7450 82	45 MACQUARIE ST, PARRAMATTA	14	RES	68	63	58	48			53.5	56.5		0	0	0	5.5	-	5.5	None	None	None	Noticeable
NCA03	7450 83	45 MACQUARIE ST, PARRAMATTA	15	RES	68	63	58	48			53.6	56.6		0	0	0	5.6	-	5.6	None	None	None	Noticeable
NCA03	7450 84	45 MACQUARIE ST, PARRAMATTA	16	RES	68	63	58	48			53.8	56.8		0	0	0	5.8	-	5.8	None	None	None	Noticeable

NCA03	7450 85	45 MACQUARIE ST, PARRAMATTA	17	RES	68	63	58	48			54	57		0	0	0	6	-	6	None	None	None	Noticeable
-------	------------	-----------------------------	----	-----	----	----	----	----	--	--	----	----	--	---	---	---	---	---	---	------	------	------	------------

NCA03	7450 86	45 MACQUARIE ST, PARRAMATTA	18	RES	68	63	58	48			54.2	57.2	0	0	0	6.2	-	6.2	None	None	None	Noticeable
NCA03	7450 87	45 MACQUARIE ST, PARRAMATTA	19	RES	68	63	58	48			54.3	57.3	0	0	0	6.3	-	6.3	None	None	None	Noticeable
NCA03	7450 88	45 MACQUARIE ST, PARRAMATTA	20	RES	68	63	58	48			54.5	57.5	0	0	0	6.5	-	6.5	None	None	None	Noticeable
NCA03	7450 89	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48			54.7	57.7	0	0	0	6.7	-	6.7	None	None	None	Noticeable
NCA03	7450 90	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48			54.8	57.8	0	0	0	6.8	-	6.8	None	None	None	Noticeable
NCA03	7450 91	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48			55.1	58.1	0	0	0	7.1	-	7.1	None	None	None	Noticeable
NCA03	7450 92	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48	Y		55.5	58.5	0	0	0	7.5	-	7.5	None	None	None	Noticeable
NCA03	7450 93	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48	Y		55.5	58.5	0	0	0	7.5	-	7.5	None	None	None	Noticeable
NCA03	7450 94	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48	Y		55.5	58.5	0	0	0	7.5	-	7.5	None	None	None	Noticeable
NCA03	7450 95	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48			55.4	58.4	0	0	0	7.4	-	7.4	None	None	None	Noticeable
NCA03	7450 96	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48			55.4	58.4	0	0	0	7.4	-	7.4	None	None	None	Noticeable
NCA03	7450 97	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48			55.4	58.4	0	0	0	7.4	-	7.4	None	None	None	Noticeable
NCA03	7450 98	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48			55.4	58.4	0	0	0	7.4	-	7.4	None	None	None	Noticeable
NCA03	7450 99	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48			55.3	58.3	0	0	0	7.3	-	7.3	None	None	None	Noticeable
NCA03	7451 00	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48			55.3	58.3	0	0	0	7.3	-	7.3	None	None	None	Noticeable
NCA03	7451 01	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48			55.3	58.3	0	0	0	7.3	-	7.3	None	None	None	Noticeable
NCA03	7451 02	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48			55.2	58.2	0	0	0	7.2	-	7.2	None	None	None	Noticeable
NCA03	7452 19	HIGH SCHOOL & PRIMARY SCHOOL 175 MACQUARIE ST	4	EDU	55	55	55	55			55.1	58.1	0.1	0.1	0.1	0.1	-	0.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7452 52	89 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			71.3	74.3	1.3	1.3	1.3	1.3	-	1.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7453 11	330 CHURCH ST, PARRAMATTA	8	RES	68	63	58	48			49	52	0	0	0	1	-	1	None	None	None	Noticeable
NCA03	7453 12	330 CHURCH ST, PARRAMATTA	9	RES	68	63	58	48			49.2	52.2	0	0	0	1.2	-	1.2	None	None	None	Noticeable
NCA03	7453 13	330 CHURCH ST, PARRAMATTA	10	RES	68	63	58	48			49.3	52.3	0	0	0	1.3	-	1.3	None	None	None	Noticeable
NCA03	7453 14	330 CHURCH ST, PARRAMATTA	11	RES	68	63	58	48			50.1	53.1	0	0	0	2.1	-	2.1	None	None	None	Noticeable
NCA03	7453 15	330 CHURCH ST, PARRAMATTA	12	RES	68	63	58	48			50.3	53.3	0	0	0	2.3	-	2.3	None	None	None	Noticeable
NCA03	7453 16	330 CHURCH ST, PARRAMATTA	13	RES	68	63	58	48			50.6	53.6	0	0	0	2.6	-	2.6	None	None	None	Noticeable
NCA03	7453 17	330 CHURCH ST, PARRAMATTA	14	RES	68	63	58	48			50.8	53.8	0	0	0	2.8	-	2.8	None	None	None	Noticeable
NCA03	7453 18	330 CHURCH ST, PARRAMATTA	15	RES	68	63	58	48			50.9	53.9	0	0	0	2.9	-	2.9	None	None	None	Noticeable
NCA03	7453 19	330 CHURCH ST, PARRAMATTA	16	RES	68	63	58	48			50.9	53.9	0	0	0	2.9	-	2.9	None	None	None	Noticeable
NCA03	7453 20	330 CHURCH ST, PARRAMATTA	17	RES	68	63	58	48			51.2	54.2	0	0	0	3.2	-	3.2	None	None	None	Noticeable
NCA03	7453 21	330 CHURCH ST, PARRAMATTA	18	RES	68	63	58	48			51.8	54.8	0	0	0	3.8	-	3.8	None	None	None	Noticeable
NCA03	7453 22	330 CHURCH ST, PARRAMATTA	19	RES	68	63	58	48			51.7	54.7	0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7453 23	330 CHURCH ST, PARRAMATTA	20	RES	68	63	58	48			52.3	55.3	0	0	0	4.3	-	4.3	None	None	None	Noticeable
NCA03	7453 24	330 CHURCH ST, PARRAMATTA	21	RES	68	63	58	48			52.8	55.8	0	0	0	4.8	-	4.8	None	None	None	Noticeable
NCA03	7453 25	330 CHURCH ST, PARRAMATTA	22	RES	68	63	58	48			52.5	55.5	0	0	0	4.5	-	4.5	None	None	None	Noticeable
NCA03	7453 26	330 CHURCH ST, PARRAMATTA	23	RES	68	63	58	48			52.6	55.6	0	0	0	4.6	-	4.6	None	None	None	Noticeable
NCA03	7453 27	330 CHURCH ST, PARRAMATTA	24	RES	68	63	58	48			52.7	55.7	0	0	0	4.7	-	4.7	None	None	None	Noticeable

NCA03	7453 28	330 CHURCH ST, PARRAMATTA	25	RES	68	63	58	48			52.8	55.8	0	0	0	4.8	-	4.8	None	None	None	Noticeable
NCA03	7453 29	330 CHURCH ST, PARRAMATTA	26	RES	68	63	58	48			52.9	55.9	0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7453 30	330 CHURCH ST, PARRAMATTA	27	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 31	330 CHURCH ST, PARRAMATTA	28	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 32	330 CHURCH ST, PARRAMATTA	29	RES	68	63	58	48			53.2	56.2	0	0	0	5.2	-	5.2	None	None	None	Noticeable
NCA03	7453 33	330 CHURCH ST, PARRAMATTA	30	RES	68	63	58	48			53.3	56.3	0	0	0	5.3	-	5.3	None	None	None	Noticeable
NCA03	7453 34	330 CHURCH ST, PARRAMATTA	31	RES	68	63	58	48			53.4	56.4	0	0	0	5.4	-	5.4	None	None	None	Noticeable
NCA03	7453 35	330 CHURCH ST, PARRAMATTA	32	RES	68	63	58	48			53.5	56.5	0	0	0	5.5	-	5.5	None	None	None	Noticeable
NCA03	7453 36	330 CHURCH ST, PARRAMATTA	33	RES	68	63	58	48			53.6	56.6	0	0	0	5.6	-	5.6	None	None	None	Noticeable
NCA03	7453 37	330 CHURCH ST, PARRAMATTA	34	RES	68	63	58	48			53.7	56.7	0	0	0	5.7	-	5.7	None	None	None	Noticeable
NCA03	7453 38	330 CHURCH ST, PARRAMATTA	35	RES	68	63	58	48			53.8	56.8	0	0	0	5.8	-	5.8	None	None	None	Noticeable
NCA03	7453 39	330 CHURCH ST, PARRAMATTA	36	RES	68	63	58	48			53.9	56.9	0	0	0	5.9	-	5.9	None	None	None	Noticeable
NCA03	7453 40	330 CHURCH ST, PARRAMATTA	37	RES	68	63	58	48			52.8	55.8	0	0	0	4.8	-	4.8	None	None	None	Noticeable
NCA03	7453 41	330 CHURCH ST, PARRAMATTA	38	RES	68	63	58	48			52.9	55.9	0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7453 42	330 CHURCH ST, PARRAMATTA	39	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 43	330 CHURCH ST, PARRAMATTA	40	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 44	330 CHURCH ST, PARRAMATTA	41	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 45	330 CHURCH ST, PARRAMATTA	42	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 46	330 CHURCH ST, PARRAMATTA	43	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 47	330 CHURCH ST, PARRAMATTA	44	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 48	330 CHURCH ST, PARRAMATTA	45	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 49	330 CHURCH ST, PARRAMATTA	46	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 50	330 CHURCH ST, PARRAMATTA	47	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 51	330 CHURCH ST, PARRAMATTA	48	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 52	330 CHURCH ST, PARRAMATTA	49	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 53	330 CHURCH ST, PARRAMATTA	50	RES	68	63	58	48			53.1	56.1	0	0	0	5.1	-	5.1	None	None	None	Noticeable
NCA03	7453 54	330 CHURCH ST, PARRAMATTA	51	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 55	330 CHURCH ST, PARRAMATTA	52	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 56	330 CHURCH ST, PARRAMATTA	53	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 57	330 CHURCH ST, PARRAMATTA	54	RES	68	63	58	48			53	56	0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7453 58	330 CHURCH ST, PARRAMATTA	55	RES	68	63	58	48			52.9	55.9	0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7453 59	330 CHURCH ST, PARRAMATTA	56	RES	68	63	58	48			52.9	55.9	0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7453 60	330 CHURCH ST, PARRAMATTA	57	RES	68	63	58	48			52.9	55.9	0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7453 61	330 CHURCH ST, PARRAMATTA	58	RES	68	63	58	48			52.9	55.9	0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7453 62	330 CHURCH ST, PARRAMATTA	59	RES	68	63	58	48			52.9	55.9	0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7453 63	330 CHURCH ST, PARRAMATTA	60	RES	68	63	58	48			52.8	55.8	0	0	0	4.8	-	4.8	None	None	None	Noticeable

NCA03	7453 64	330 CHURCH ST, PARRAMATTA	61	RES	68	63	58	48			52.8	55.8	0	0	0	4.8	-	4.8	None	None	None	Noticeable
NCA03	7455 15	140 CHURCH ST, PARRAMATTA	16	RES	68	63	58	48			48.7	51.7	0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7455 16	140 CHURCH ST, PARRAMATTA	17	RES	68	63	58	48			49.9	52.9	0	0	0	1.9	-	1.9	None	None	None	Noticeable
NCA03	7455 17	140 CHURCH ST, PARRAMATTA	18	RES	68	63	58	48			50.9	53.9	0	0	0	2.9	-	2.9	None	None	None	Noticeable
NCA03	7455 18	140 CHURCH ST, PARRAMATTA	19	RES	68	63	58	48			51	54	0	0	0	3	-	3	None	None	None	Noticeable
NCA03	7455 19	140 CHURCH ST, PARRAMATTA	20	RES	68	63	58	48			51.1	54.1	0	0	0	3.1	-	3.1	None	None	None	Noticeable
NCA03	7455 20	140 CHURCH ST, PARRAMATTA	21	RES	68	63	58	48			51.7	54.7	0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7455 21	140 CHURCH ST, PARRAMATTA	22	RES	68	63	58	48			51.9	54.9	0	0	0	3.9	-	3.9	None	None	None	Noticeable
NCA03	7455 22	140 CHURCH ST, PARRAMATTA	23	RES	68	63	58	48			51.4	54.4	0	0	0	3.4	-	3.4	None	None	None	Noticeable
NCA03	7455 23	140 CHURCH ST, PARRAMATTA	24	RES	68	63	58	48			51.6	54.6	0	0	0	3.6	-	3.6	None	None	None	Noticeable
NCA03	7455 24	140 CHURCH ST, PARRAMATTA	25	RES	68	63	58	48			51.1	54.1	0	0	0	3.1	-	3.1	None	None	None	Noticeable
NCA03	7455 25	140 CHURCH ST, PARRAMATTA	26	RES	68	63	58	48			51.2	54.2	0	0	0	3.2	-	3.2	None	None	None	Noticeable
NCA03	7455 33	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48	Y		57	60	0	0	0	9	-	9	None	None	None	Noticeable
NCA03	7455 34	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48	Y		57.2	60.2	0	0	0	9.2	-	9.2	None	None	None	Noticeable
NCA03	7455 35	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48	Y		57.3	60.3	0	0	0	9.3	-	9.3	None	None	None	Noticeable
NCA03	7455 36	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48	Y		57.5	60.5	0	0	0	9.5	-	9.5	None	None	None	Noticeable
NCA03	7455 37	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48	Y		57.8	60.8	0	0	0	9.8	-	9.8	None	None	None	Noticeable
NCA03	7455 38	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48	Y		57.8	60.8	0	0	0	9.8	-	9.8	None	None	None	Noticeable
NCA03	7455 39	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48	Y		57.7	60.7	0	0	0	9.7	-	9.7	None	None	None	Noticeable
NCA03	7455 40	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48	Y		57.7	60.7	0	0	0	9.7	-	9.7	None	None	None	Noticeable
NCA03	7455 41	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48	Y		57.7	60.7	0	0	0	9.7	-	9.7	None	None	None	Noticeable
NCA03	7455 42	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48	Y		57.6	60.6	0	0	0	9.6	-	9.6	None	None	None	Noticeable
NCA03	7455 43	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48	Y		57.6	60.6	0	0	0	9.6	-	9.6	None	None	None	Noticeable
NCA03	7455 44	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48	Y		57.6	60.6	0	0	0	9.6	-	9.6	None	None	None	Noticeable
NCA03	7455 51	45 MACQUARIE ST, PARRAMATTA	9	RES	68	63	58	48			52.1	55.1	0	0	0	4.1	-	4.1	None	None	None	Noticeable
NCA03	7455 52	45 MACQUARIE ST, PARRAMATTA	10	RES	68	63	58	48			53.3	56.3	0	0	0	5.3	-	5.3	None	None	None	Noticeable
NCA03	7455 53	45 MACQUARIE ST, PARRAMATTA	11	RES	68	63	58	48			53.3	56.3	0	0	0	5.3	-	5.3	None	None	None	Noticeable
NCA03	7455 54	45 MACQUARIE ST, PARRAMATTA	12	RES	68	63	58	48			55.1	58.1	0	0	0	7.1	-	7.1	None	None	None	Noticeable
NCA03	7455 55	45 MACQUARIE ST, PARRAMATTA	13	RES	68	63	58	48			55.3	58.3	0	0	0	7.3	-	7.3	None	None	None	Noticeable
NCA03	7455 56	45 MACQUARIE ST, PARRAMATTA	14	RES	68	63	58	48	Y		55.5	58.5	0	0	0	7.5	-	7.5	None	None	None	Noticeable
NCA03	7455 57	45 MACQUARIE ST, PARRAMATTA	15	RES	68	63	58	48	Y		55.7	58.7	0	0	0	7.7	-	7.7	None	None	None	Noticeable
NCA03	7455 58	45 MACQUARIE ST, PARRAMATTA	16	RES	68	63	58	48	Y		55.8	58.8	0	0	0	7.8	-	7.8	None	None	None	Noticeable
NCA03	7455 59	45 MACQUARIE ST, PARRAMATTA	17	RES	68	63	58	48	Y		56	59	0	0	0	8	-	8	None	None	None	Noticeable
NCA03	7455 60	45 MACQUARIE ST, PARRAMATTA	18	RES	68	63	58	48	Y		56.2	59.2	0	0	0	8.2	-	8.2	None	None	None	Noticeable
NCA03	7455 61	45 MACQUARIE ST, PARRAMATTA	19	RES	68	63	58	48	Y		56.4	59.4	0	0	0	8.4	-	8.4	None	None	None	Noticeable
NCA03	7455 62	45 MACQUARIE ST, PARRAMATTA	20	RES	68	63	58	48	Y		56.5	59.5	0	0	0	8.5	-	8.5	None	None	None	Noticeable

NCA03	7455 63	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48	Y		56.7	59.7	0	0	0	8.7	-	8.7	None	None	None	Noticeable
NCA03	7455 64	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48	Y		56.9	59.9	0	0	0	8.9	-	8.9	None	None	None	Noticeable
NCA03	7456 24	46 GEORGE ST, PARRAMATTA	1	EDU	55	55	55	55			59.8	62.8	4.8	4.8	4.8	4.8	-	4.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7456 25	46 GEORGE ST, PARRAMATTA	2	EDU	55	55	55	55			60.1	63.1	5.1	5.1	5.1	5.1	-	5.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7458 13	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	7	PoW	55	55	55	55			55.4	58.4	0.4	0.4	0.4	0.4	-	0.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7458 14	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	8	PoW	55	55	55	55			57.1	60.1	2.1	2.1	2.1	2.1	-	2.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7458 15	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	9	PoW	55	55	55	55			57.9	60.9	2.9	2.9	2.9	2.9	-	2.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7460 93	Address unknown	6	RES	68	63	58	48			48.2	51.2	0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7461 14	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	4	PoW	55	55	55	55			56.5	59.5	1.5	1.5	1.5	1.5	-	1.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7461 15	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	1	PoW	55	55	55	55			55.2	58.2	0.2	0.2	0.2	0.2	-	0.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7461 16	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	2	PoW	55	55	55	55			55.5	58.5	0.5	0.5	0.5	0.5	-	0.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7461 17	ST JOHNS CHURCH 195 CHURCH ST, PARRAMATTA	3	PoW	55	55	55	55			56	59	1	1	1	1	-	1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 32	169 MACQUARIE ST, PARRAMATTA	1	EDU	55	55	55	55			56.8	59.8	1.8	1.8	1.8	1.8	-	1.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 33	169 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			57.2	60.2	2.2	2.2	2.2	2.2	-	2.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 34	169 MACQUARIE ST, PARRAMATTA	3	EDU	55	55	55	55			57.5	60.5	2.5	2.5	2.5	2.5	-	2.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 35	169 MACQUARIE ST, PARRAMATTA	4	EDU	55	55	55	55			57.8	60.8	2.8	2.8	2.8	2.8	-	2.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 36	169 MACQUARIE ST, PARRAMATTA	5	EDU	55	55	55	55			58.1	61.1	3.1	3.1	3.1	3.1	-	3.1	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 37	169 MACQUARIE ST, PARRAMATTA	6	EDU	55	55	55	55			58.3	61.3	3.3	3.3	3.3	3.3	-	3.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 38	169 MACQUARIE ST, PARRAMATTA	7	EDU	55	55	55	55			58.6	61.6	3.6	3.6	3.6	3.6	-	3.6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 39	169 MACQUARIE ST, PARRAMATTA	8	EDU	55	55	55	55			58.9	61.9	3.9	3.9	3.9	3.9	-	3.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 40	169 MACQUARIE ST, PARRAMATTA	9	EDU	55	55	55	55			59.2	62.2	4.2	4.2	4.2	4.2	-	4.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 41	169 MACQUARIE ST, PARRAMATTA	10	EDU	55	55	55	55			59.5	62.5	4.5	4.5	4.5	4.5	-	4.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 42	169 MACQUARIE ST, PARRAMATTA	11	EDU	55	55	55	55			59.8	62.8	4.8	4.8	4.8	4.8	-	4.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 43	169 MACQUARIE ST, PARRAMATTA	12	EDU	55	55	55	55			60	63	5	5	5	5	-	5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 44	169 MACQUARIE ST, PARRAMATTA	13	EDU	55	55	55	55			60.3	63.3	5.3	5.3	5.3	5.3	-	5.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 45	169 MACQUARIE ST, PARRAMATTA	14	EDU	55	55	55	55			60.5	63.5	5.5	5.5	5.5	5.5	-	5.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 46	169 MACQUARIE ST, PARRAMATTA	15	EDU	55	55	55	55			60.9	63.9	5.9	5.9	5.9	5.9	-	5.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 47	169 MACQUARIE ST, PARRAMATTA	16	EDU	55	55	55	55			60.9	63.9	5.9	5.9	5.9	5.9	-	5.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 48	169 MACQUARIE ST, PARRAMATTA	17	EDU	55	55	55	55			60.9	63.9	5.9	5.9	5.9	5.9	-	5.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 49	169 MACQUARIE ST, PARRAMATTA	18	EDU	55	55	55	55			60.7	63.7	5.7	5.7	5.7	5.7	-	5.7	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 50	169 MACQUARIE ST, PARRAMATTA	19	EDU	55	55	55	55			60.3	63.3	5.3	5.3	5.3	5.3	-	5.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 51	169 MACQUARIE ST, PARRAMATTA	20	EDU	55	55	55	55			60.3	63.3	5.3	5.3	5.3	5.3	-	5.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7462 52	169 MACQUARIE ST, PARRAMATTA	21	EDU	55	55	55	55			60.2	63.2	5.2	5.2	5.2	5.2	-	5.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7463 49	6-10 CHARLES ST, PARRAMATTA	15	RES	68	63	58	48			48.1	51.1	0	0	0	0.1	-	0.1	None	None	None	Noticeable
NCA03	7463 50	6-10 CHARLES ST, PARRAMATTA	16	RES	68	63	58	48			48.2	51.2	0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55	Y		70.7	73.7	15.7	15.7	15.7	15.7	-	15.7	Clearly Audible	Clearly Audible	Clearly Audible	Clearly Audible

NCA03	7464 82	46 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			71.9	74.9		1.9	1.9	1.9	1.9	-	1.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7464 83	46 MACQUARIE ST, PARRAMATTA	4	COM	70	70	70	70			71.9	74.9		1.9	1.9	1.9	1.9	-	1.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 06	30 PHILLIP ST, PARRAMATTA	7	RES	68	63	58	48			51.7	54.7		0	0	0	3.7	-	3.7	None	None	None	Noticeable
NCA03	7465 07	30 PHILLIP ST, PARRAMATTA	8	RES	68	63	58	48			52.1	55.1		0	0	0	4.1	-	4.1	None	None	None	Noticeable
NCA03	7465 08	30 PHILLIP ST, PARRAMATTA	9	RES	68	63	58	48			52	55		0	0	0	4	-	4	None	None	None	Noticeable
NCA03	7465 09	30 PHILLIP ST, PARRAMATTA	10	RES	68	63	58	48			52.4	55.4		0	0	0	4.4	-	4.4	None	None	None	Noticeable
NCA03	7465 10	30 PHILLIP ST, PARRAMATTA	11	RES	68	63	58	48			53.4	56.4		0	0	0	5.4	-	5.4	None	None	None	Noticeable
NCA03	7465 11	30 PHILLIP ST, PARRAMATTA	12	RES	68	63	58	48			52.9	55.9		0	0	0	4.9	-	4.9	None	None	None	Noticeable
NCA03	7465 12	30 PHILLIP ST, PARRAMATTA	13	RES	68	63	58	48			53	56		0	0	0	5	-	5	None	None	None	Noticeable
NCA03	7465 13	30 PHILLIP ST, PARRAMATTA	14	RES	68	63	58	48			53.2	56.2		0	0	0	5.2	-	5.2	None	None	None	Noticeable
NCA03	7465 14	30 PHILLIP ST, PARRAMATTA	15	RES	68	63	58	48			53.3	56.3		0	0	0	5.3	-	5.3	None	None	None	Noticeable
NCA03	7465 52	211 CHURCH ST, PARRAMATTA	1	EDU	55	55	55	55			59.9	62.9		4.9	4.9	4.9	4.9	-	4.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 53	211 CHURCH ST, PARRAMATTA	2	EDU	55	55	55	55			60.4	63.4		5.4	5.4	5.4	5.4	-	5.4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 54	211 CHURCH ST, PARRAMATTA	3	EDU	55	55	55	55			61	64		6	6	6	6	-	6	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7465 55	211 CHURCH ST, PARRAMATTA	4	EDU	55	55	55	55			61.8	64.8		6.8	6.8	6.8	6.8	-	6.8	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7466 93	97 MACQUARIE ST, PARRAMATTA	1	COM	70	70	70	70			74	77		4	4	4	4	-	4	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7466 94	97 MACQUARIE ST, PARRAMATTA	2	COM	70	70	70	70			75.2	78.2	Y	5.2	5.2	5.2	5.2	-	5.2	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7466 95	97 MACQUARIE ST, PARRAMATTA	3	COM	70	70	70	70			75	78	Y	5	5	5	5	-	5	Noticeable	Noticeable	Noticeable	Noticeable

C.2 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------

Appendix C: OOHW1and2_LD_N4: Linemarking and Demobilisation Detailed predictions

C.3 Noise

Assessment: Macquarie Lane Reinstatement Works					NML, LAeq, 15 minute				Sleep, LMax		Predicted noise level, dBA		Exceedance summary										
NCA	Rec	Address	Flr	Land use	Day	O/day	Eve	Night	Screen	Awake	Cumulative LAeq, 15 minute	LMax	Highly Affected?	Exceed NML by (dB):				Exceed sleep disturbance by (dB):		Impact classification			
														Day	O/day	Eve	Night	Screen	Awake	Day	O/day	Eve	Night
NCA03	7446 80	244 CHURCH ST, PARRAMATTA	1	EDU	55	55	55	55			55.3	61.5		0.3	0.3	0.3	0.3	-	0.3	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 60	119 MACQUARIE ST, PARRAMATTA	1	PoW	55	55	55	55			60.5	66.7		5.5	5.5	5.5	5.5	-	5.5	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7447 61	119 MACQUARIE ST, PARRAMATTA	2	PoW	55	55	55	55			61.9	68.1		6.9	6.9	6.9	6.9	-	6.9	Noticeable	Noticeable	Noticeable	Noticeable
NCA03	7455 33	45 MACQUARIE ST, PARRAMATTA	23	RES	68	63	58	48			48.8	55		0	0	0	0.8	-	0.8	None	None	None	Noticeable
NCA03	7455 34	45 MACQUARIE ST, PARRAMATTA	24	RES	68	63	58	48			49	55.2		0	0	0	1	-	1	None	None	None	Noticeable
NCA03	7455 35	45 MACQUARIE ST, PARRAMATTA	25	RES	68	63	58	48			49.1	55.3		0	0	0	1.1	-	1.1	None	None	None	Noticeable
NCA03	7455 36	45 MACQUARIE ST, PARRAMATTA	26	RES	68	63	58	48			49.3	55.5		0	0	0	1.3	-	1.3	None	None	None	Noticeable
NCA03	7455 37	45 MACQUARIE ST, PARRAMATTA	27	RES	68	63	58	48			49.6	55.8		0	0	0	1.6	-	1.6	None	None	None	Noticeable
NCA03	7455 38	45 MACQUARIE ST, PARRAMATTA	28	RES	68	63	58	48			49.6	55.8		0	0	0	1.6	-	1.6	None	None	None	Noticeable

NCA03	7455 39	45 MACQUARIE ST, PARRAMATTA	29	RES	68	63	58	48			49.5	55.7		0	0	0	1.5	-	1.5	None	None	None	Noticeable
NCA03	7455 40	45 MACQUARIE ST, PARRAMATTA	30	RES	68	63	58	48			49.5	55.7		0	0	0	1.5	-	1.5	None	None	None	Noticeable
NCA03	7455 41	45 MACQUARIE ST, PARRAMATTA	31	RES	68	63	58	48			49.5	55.7		0	0	0	1.5	-	1.5	None	None	None	Noticeable
NCA03	7455 42	45 MACQUARIE ST, PARRAMATTA	32	RES	68	63	58	48			49.4	55.6		0	0	0	1.4	-	1.4	None	None	None	Noticeable
NCA03	7455 43	45 MACQUARIE ST, PARRAMATTA	33	RES	68	63	58	48			49.4	55.6		0	0	0	1.4	-	1.4	None	None	None	Noticeable
NCA03	7455 44	45 MACQUARIE ST, PARRAMATTA	34	RES	68	63	58	48			49.4	55.6		0	0	0	1.4	-	1.4	None	None	None	Noticeable
NCA03	7455 61	45 MACQUARIE ST, PARRAMATTA	19	RES	68	63	58	48			48.2	54.4		0	0	0	0.2	-	0.2	None	None	None	Noticeable
NCA03	7455 62	45 MACQUARIE ST, PARRAMATTA	20	RES	68	63	58	48			48.3	54.5		0	0	0	0.3	-	0.3	None	None	None	Noticeable
NCA03	7455 63	45 MACQUARIE ST, PARRAMATTA	21	RES	68	63	58	48			48.5	54.7		0	0	0	0.5	-	0.5	None	None	None	Noticeable
NCA03	7455 64	45 MACQUARIE ST, PARRAMATTA	22	RES	68	63	58	48			48.7	54.9		0	0	0	0.7	-	0.7	None	None	None	Noticeable
NCA03	7464 81	46 MACQUARIE ST, PARRAMATTA	2	EDU	55	55	55	55			62.5	68.7		7.5	7.5	7.5	7.5	-	7.5	Noticeable	Noticeable	Noticeable	Noticeable

C.4 Vibration

NCA	Receiver	Address	Land use	Vibration Impact
-----	----------	---------	----------	------------------