Transport
for NSW

New Richmond Bridge Stage 2 Upgrade Noise and Vibration Impact Assessment

October 2024



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Acknowledgement of Country

Transport for NSW acknowledges the traditional custodians of the land on which we work and live.

We pay our respects to Elders past and present and celebrate the diversity of Aboriginal people and their ongoing cultures and connections to the lands and waters of NSW.

Many of the transport routes we use today – from rail lines, to roads, to water crossings – follow the traditional Songlines, trade routes and ceremonial paths in Country that our nation's First Peoples followed for tens of thousands of years.

Transport for NSW is committed to honouring Aboriginal peoples' cultural and spiritual connections to the land, waters and seas and their rich contribution to society.



Prepared by SLR Consulting Australia Pty Ltd.

Report controls

Approval and authorisation

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1. Introduction

1.1 Proposal identification

Transport for NSW (Transport) proposes to upgrade Bells Line of Road / Kurrajong Road between Crooked Lane, North Richmond and Old Kurrajong Road, Richmond and construct a new bypass south of Richmond town centre. This is known as New Richmond Bridge and traffic improvements – Stage 2 (the proposal). The new route between Richmond and North Richmond would provide a minimum five per cent annual exceedance probability (AEP) flood resilience (equivalent to the 1 in 20 chance per year flood event). The proposal is about 50 kilometres north-west of the Sydney Central Business District (CBD) and about 33 kilometres north-west of Parramatta. It is in the Hawkesbury City Council local government area (LGA).

The proposal would be delivered in two stages, known as Stage 2A and Stage 2B. Should this REF be determined, and the already committed funding by the Australian Government and NSW Government released, Stage 2A would be constructed. This is expected to be complete by 2029. The timing of Stage 2B would be subject to available funding and Transport will continue to seek funding in upcoming State and Federal budgets to deliver the rest of the upgrades.

Stage 2A of the proposal includes a new four-lane bridge over the Hawkesbury River about 30 metres downstream of the existing Richmond Bridge, widening of Bells Line of Road through North Richmond to provide two lanes in each direction between the new bridge and the Terrace Road / Grose Vale Road intersection and a new bypass to the south of the Richmond town centre. The bypass would extend about 1.7 kilometres across the floodplain between the Kurrajong Road / Old Kurrajong Road intersection and Castlereagh Road / Inalls Lane / Southee Road intersection. Stage 2A of the proposal would also provide an active transport corridor between North Richmond and Richmond. This would include a new shared path on the southern side of Kurrajong Road between Old Kurrajong Road and Chapel Street and the conversion of the existing Richmond Bridge into an active transport connection across the Hawkesbury River.

Stage 2B of the proposal includes widening of Bells Line of Road between the Terrace Road / Grose Vale Road intersection and west of Charles Street and at its intersection with Crooked Lane. The bypass would also be extended 1.3 kilometres east from Castlereagh Road to Londonderry Road and would be a new road alignment to the south of Southee Road. Southee Road would connect to the bypass opposite Valder Place. The Londonderry Road / bypass / Vines Drive intersection would also be upgraded.

1.1.1 Proposal background

Richmond Bridge is currently operating at capacity and future traffic demand in the area during peak periods is expected to increase by up to 20 per cent between 2023 and 2048 driven by residential development west of the Hawkesbury River and background traffic growth. This is expected to further increase congestion and travel times along this arterial corridor.

The Australian Government and the NSW Government are funding traffic improvements between North Richmond and Richmond including a new bridge over the Hawkesbury River. This initiative is part of a wider program of traffic improvements between North Richmond and Richmond which includes previous intersection improvements at three key intersections on the approach to the existing Richmond Bridge, including Bells Line of Road / Grose Vale Road intersection in North Richmond as well as Kurrajong Road / Old Kurrajong Road intersection and March Street / Bosworth Street intersection in Richmond. The proposal builds on the previous intersection improvements and is being carried out as part of a wider program of traffic improvements between Richmond and North Richmond which is being delivered in two stages (Stage 1 and Stage 2). They are:

- **Stage 1** involves upgrading The Driftway between Londonderry Road and Blacktown Road to improve safety and flood resilience and to cater for future traffic growth. This project has been separately approved by Transport and is in construction phase, being delivered separately to the proposal.
- **Stage 2** is the proposal and it aims to enhance the traffic and flood resilience of the road network, cater for congestion ahead of Richmond's anticipated growth and improve road safety and efficiency along the corridor for motorists and pedestrians.

1.1.2 Proposal overview

The key features of Stage 2A of the proposal would include:

- a new four-lane bridge over the Hawkesbury River (about 360 metres long) about 30 metres downstream of the existing bridge, with two eastbound and two westbound lanes and the road level at a height to provide a five per cent AEP flood immunity
- widening of Bells Line of Road and Kurrajong Road to two lanes in each direction from the Terrace Road / Grose Vale Road intersection in North Richmond to just east of the Kurrajong Road / Old Kurrajong Road intersection in Richmond
- a new two-lane bypass south of Richmond town centre (one lane in each direction) between the Kurrajong Road / Old Kurrajong Road intersection and just east of the Castlereagh Road / Inalls Lane / Southee Road intersection, including:
  - a three-way signalised intersection connecting Kurrajong Road and the new bypass, including closure of the existing northern and southern legs of Old Kurrajong Road at Kurrajong Road
  - a two-way gated emergency driveway access connecting the northern leg of Old Kurrajong Road and Kurrajong Road, to be opened during flood evacuation events
  - a 150-metre-long bridge over a tributary to Mareh-Mareh Lagoon (near Inalls Lane)
  - a 120-metre-long bridge over the floodplain parallel to Inalls Lane
  - a roundabout at the Castlereagh Road / Inalls Lane / bypass intersection, with a local road connection to Southee Road
  - local road connections to Yarramundi Lane and Victoria Place from the bypass
  - truncation of Inalls Lane near Mareh-Mareh Lagoon, with local road connections to Inalls Lane from the bypass via Yarramundi Lane and near Drift Road
  - closure of the existing Drift Road intersection with Inalls Lane, with a new local road connection to Drift Road from the bypass
  - footpaths along the southern side of the of the bypass between Drift Road and Castlereagh Road and on each side of the roundabout
- an upgraded active transport network between Richmond and North Richmond, including:
  - a new shared path along the southern side of Kurrajong Road between the existing Richmond Bridge and Chapel Street, Richmond, a distance of about two kilometres, connecting to existing paths along March Street, Richmond
  - conversion of the existing Richmond Bridge and approaches into an active transport only connection
  - active transport connections from the existing Richmond Bridge through Hanna Park to an upgraded shared path on the northern side of Bells Line of Road until east of the Bells Line of Road / Terrace Road / Grose Vale Road intersection
- retention of bus stops along Bells Line of Road and Kurrajong Road
- new drainage infrastructure, including swales and water quality basins
- utilities connections and upgrades (including electrical, gas, water and telecommunications)
- new intelligent transport systems including closed-circuit television (CCTV) cameras to monitor traffic flow and assist with emergency management
- new maintenance access to the three new bridge structures
- permanent retaining walls near the approach to the new four-lane bridge in North Richmond and along Kurrajong Road near the new shared path
- driveway adjustments and tie-ins, including along Bells Line of Road, Beaumont Avenue, Kurrajong Road, Old Kurrajong Road, Inalls Lane, Drift Road and Castlereagh Road
- eight new parking spaces on the northern side of Beaumont Avenue, near its intersection with Terrace Road to replace parking spaces removed on Bells Line of Road
- finishing works, including kerb and gutters, signs, landscaping, lighting and line marking

- construction activities, including:
  - early work, including the establishment of a new compliant handrail on the existing Richmond Bridge
  - geotechnical, contamination and utility investigations which may be carried out as early work
  - a temporary roundabout at the Kurrajong Road / Chapel Street intersection
  - civil earthworks, bridge structural works, retaining walls, drainage work, utilities relocations and tie-in work and adjustments to adjoining sections of road
  - establishment of temporary ancillary facilities to support construction, including compound sites, site offices, stockpile and laydown locations, temporary access tracks and water quality devices
  - demolition work for structures and property features that fall in the proposal area.

The key features of Stage 2B of the proposal would include:

- localised widening of Bells Line of Road to provide a dedicated right-turn lane into Crooked Lane
- widening of Bells Line of Road to two lanes in each direction from west of Charles Street to the Terrace Road / Grose Vale Road intersection in North Richmond
- additional capacity improvements to the Bells Line of Road / Terrace Road / Grose Vale Road intersection, including an additional eastbound through lane at the intersection
- an upgraded shared path on the northern side of Bells Line of Road from west of Charles Street to the Terrace Road / Grose Vale Road intersection in North Richmond
- extension of the bypass (one lane in each direction) between the Castlereagh Road roundabout and just south of the Londonderry Road / Southee Road intersection, including:
  - a new signalised intersection at the junction of Londonderry Road, the new bypass and Vines Drive
  - closure of the Southee Road local road connection from Castlereagh Road and closure of Southee Road at Londonderry Road
  - a new local road connection to Southee Road opposite Valder Place, with left and right turn lanes provided at this intersection.
  - two new bus stops along the bypass near Hill Avenue (one eastbound and one westbound), with a footpath connection to Southee Road
- retention of bus stops along Bells Line of Road and Londonderry Road
- new drainage infrastructure, including swales and a water quality basin on Londonderry Road
- noise screening mounds, walls and/or additional attenuation between the bypass and Southee Road along the extended section of the bypass between Castlereagh Road and Londonderry Road
- utilities connections and upgrades (including electrical, gas, water and telecommunications)
- new intelligent transport systems at the Londonderry Road / bypass / Vines Drive intersection including closed-circuit television (CCTV) cameras to monitor traffic flow and assist with emergency management
- driveway adjustments and tie-ins, including along Bells Line of Road, the bypass and Londonderry Road
- finishing works, including kerb and gutters, signs, landscaping, lighting and line marking
- construction activities, including:
  - geotechnical, contamination and utility investigations which may be carried out as early work
  - civil earthworks, retaining walls, drainage work, utilities relocations and tie-in work and adjustments to adjoining sections of road
  - establishment of temporary ancillary facilities to support construction, including compound sites, site offices, stockpile and laydown locations, temporary access tracks and water quality devices
  - demolition work for structures and property features that fall in the proposal area.

An overview of the proposal (Stage 2A and 2B) is provided in Figure 1-1 and Figure 1-2.

Figure 1-1: The Proposal (North)

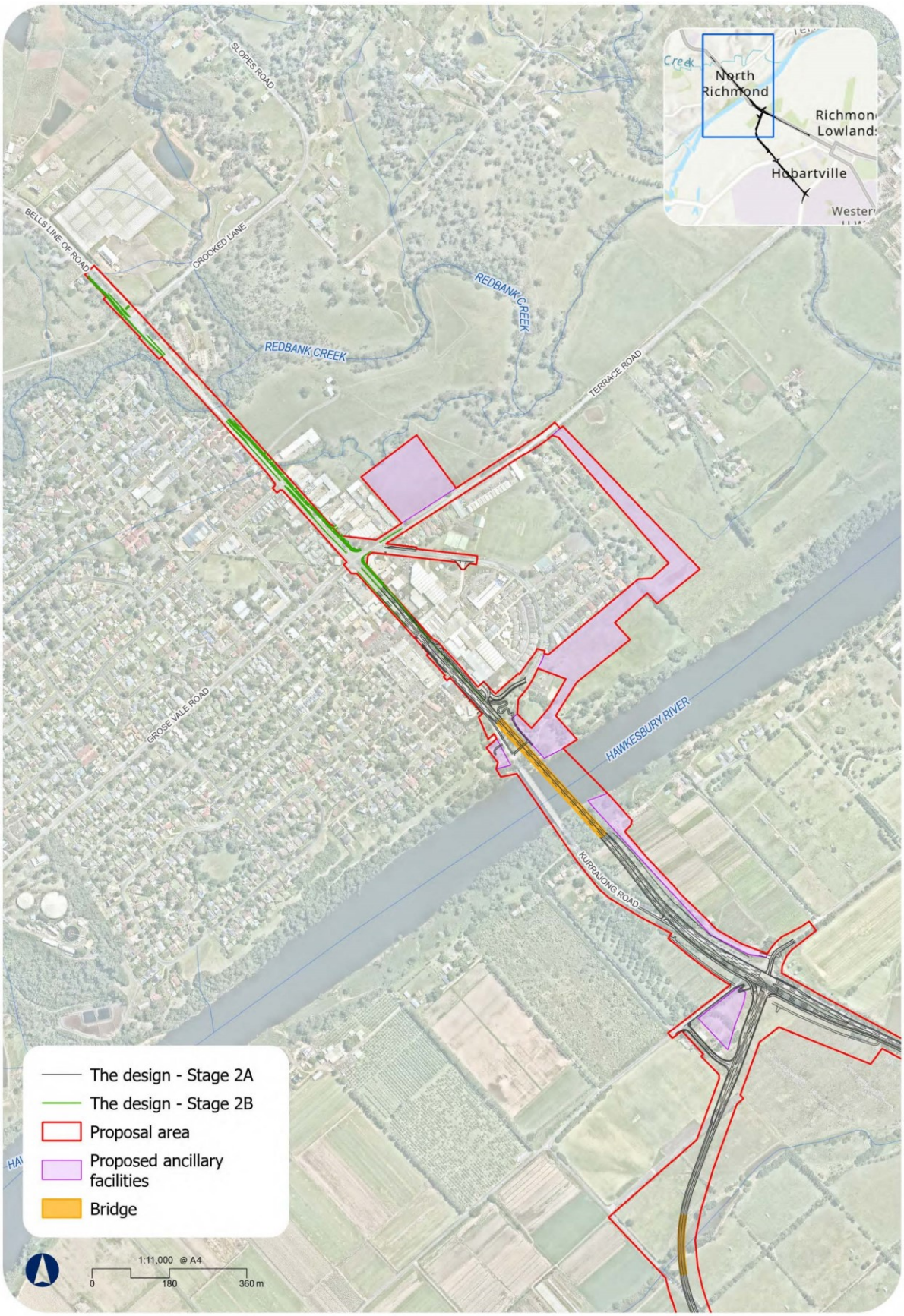
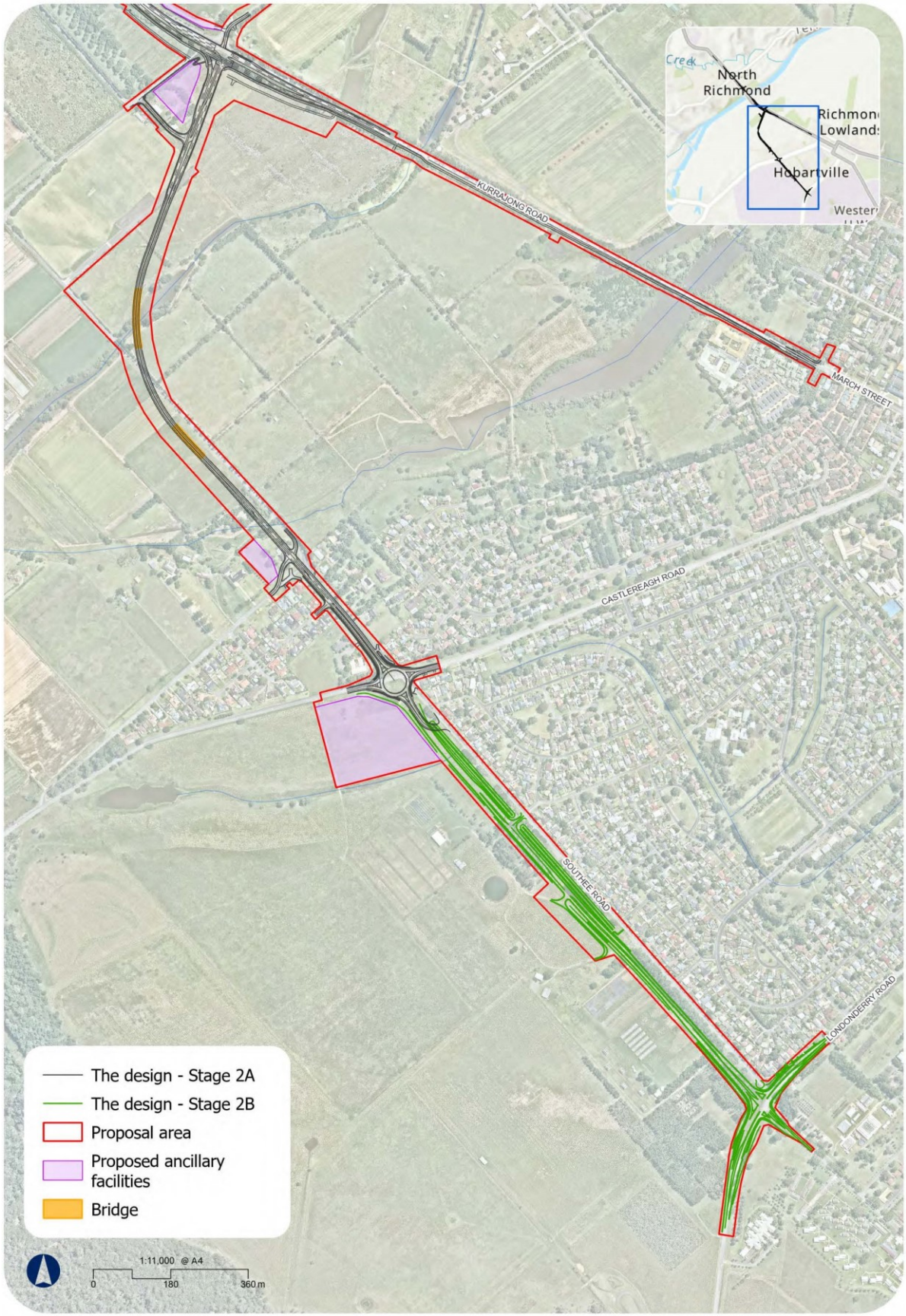


Figure 1-2: The Proposal (South)



1.2 Purpose of this report

This Noise and Vibration report has been prepared to assess the potential noise and vibration impacts of the proposal. It will support a Review of Environmental Factors (REF) being prepared by Transport under Division 5.1 of the Environmental Planning and Assessment Act 1979 (EP&A Act).

1.3 Terminology

The assessment uses specific acoustic terminology and an explanation of common terms is included in Appendix A.

2. Existing environment

The proposal is located within the Hawkesbury local government area and includes the suburbs of Richmond, North Richmond and Hobartville. The study area for this assessment is based on a buffer around the proposal footprint, generally up to around 2 km, to include all receivers potentially impacted by construction noise and vibration. The operational noise assessment area is a smaller area within the study area which extends a minimum of 600 m from the centre line of the outermost traffic lane on each side of the project roads.

The assessment uses fifteen Noise Catchment Areas (NCAs) that reflect the land uses in the study area and the existing background noise levels. These are shown in Figure 2-1.

Receivers within the study area include suburban residential properties in Hobartville and North Richmond with sections of sparsely residential properties on the eastern side of the Hawkesbury River and to the north of Bells Line of Road. There are also some commercial properties along Bells line of Road in North Richmond.

Existing noise levels in the study area are generally influenced by road traffic noise from Bells Line of Road, Kurrajong Road, Castlereagh Road and Londonderry Road.

2.1 Noise and vibration sensitive receivers

Receivers potentially sensitive to noise and vibration have been categorised as residential dwellings, commercial/industrial buildings, or 'other sensitive' land uses which include educational facilities, child care centres, places of worship, and various outdoor recreation areas. Receiver types and locations are shown in Figure 2-1.

The 'other sensitive' non-residential receivers identified in the study area are shown in Table 2-1.

Table 2-1: 'Other Sensitive' Receivers (Non-Residential)

NCA	Name	Address	Types
NCA01	Colo High School	218 Bells Line of Road, North Richmond	Educational
	St Philip Public Cemetery	151 Bells Line of Road	Place of Worship
NCA03	Riverlands Dental	12 Grose Vale Road, North Richmond	Medical
	North Richmond Family Medical Practice	4 Grose Vale Road, North Richmond	Medical
NCA04	Caring 4 Kids - Child Care North Richmond	7 Elizabeth Street, North Richmond	Childcare Centre
	Elizabeth Street Extended Hours Preschool	22 Elizabeth Street, North Richmond	Childcare Centre
	North Richmond Kingdom Hall of Jehovah's Witnesses	29-33 Elizabeth Street, North Richmond	Place of Worship
	Richmond North Public School	North Richmond Public School 14 Grose Vale Road, North Richmond	Educational

NCA	Name	Address	Types
NCA05	Hanna Park and Hawkesbury Park	45 Beaumont Avenue, North Richmond	Outdoor (active)
	Hawkesbury Valley Baptist Church	26 Terrace Road, North Richmond	Place of Worship
	North Richmond Heritage Park	45 Beaumont Avenue, North Richmond	Outdoor (active)
	Turnbull Oval	Adjacent To Beaumont Avenue	Outdoor (active)
NCA06	Advanced Podiatry	15 Riverview Street, North Richmond	Medical
	Community Kids, North Richmond Early Education Centre	33 Riverview Street, North Richmond	Childcare Centre
	Hawkesbury Dentistry	19 Riverview Street, North Richmond	Medical
	Morunga Park	90 Keda Circuit North Richmond	Outdoor (active)
	St John of God Richmond Hospital	235 Grose Vale Road, North Richmond	Medical
NCA07	Cougar Park (Colo Soccer Club)	Corner Of Inalls Lane and Yarramundi Lane	Outdoor (active)
	Killarney Polo Club	49 Old Kurrajong Road, Richmond	Outdoor (active)
	Windsor Polo Club	33 Old Kurrajong Road, Richmond	Outdoor (active)
NCA08	The Church of Jesus Christ of Latter-day Saints	Corner Of Inalls Lane and Castlereagh Road	Place of Worship
NCA09	Andrew Town Park	2A William Cox Drive, Richmond	Outdoor (active)
	Colonial Motel, Richmond	161 March Street, Richmond	Hotel
	Pughs Lagoon Reserve	Off Old Kurrajong Road, Richmond	Outdoor (active)
	Richmond Anglican Church	384 Windsor Street, Richmond	Place of Worship
	Smith Park	Windsor Street, Richmond	Outdoor (active)
	Uniting Hawkesbury, Richmond	25 Chapel Street, Richmond	Aged Care
NCA11	Cardiologist - Specialist care	312 Windsor Street, Richmond	Medical
	Comprehensive Eye Care	109 Lennox Street, Richmond	Medical
	David Bertenshaw Fields	23 Bensons Lane, Richmond Lowlands	Outdoor (active)
	Gentle Dental Care	78 March Street, Richmond	Medical
	Greater Western Sydney Eye Surgeons	135 Windsor Street, Richmond	Medical
	Hawkesbury Baseball Club	23 Bensons Lane, Richmond Lowlands	Outdoor (active)
	Hearing Australia	86 Lennox Street, Richmond	Medical
	Laverty Pathology	131 Windsor Street, Richmond	Medical
	Little Zak's Academy Richmond	78 Lennox Street, Richmond	Childcare Centre
	Lowland Wanders Soccer Club	23 Bensons Lane, Richmond Lowlands	Outdoor (active)
	Owen Earle Oval	23 Bensons Lane, Richmond Lowlands	Outdoor (active)
	Richmond High School	140 Lennox Street, Richmond	Educational
	Richmond Library	29 West Market Street, Richmond	Library

NCA	Name	Address	Types
	Richmond Park	180 Windsor Street, Richmond	Outdoor (active)
	Richmond Preschool Kindergarten	114 March Street, Richmond	Childcare Centre
	Richmond Swimming Centre	71 East Market Street, Hobartville	Outdoor (active)
	St Andrews Unity Church	25 West Market Street, Richmond	Place of Worship
NCA12	Hobartville Long Day Preschool	24 Laurence Street, Hobartville	Childcare Centre
	Hobartville Oval	35 Laurence Street, Hobartville	Outdoor (active)
	Hobartville Public School	16 Valder Avenue, Hobartville	Educational
NCA13	Western Sydny University	2 College Street, Richmond	Educational
NCA14	Richmond Doctors	64 Frances Street, Richmond	Medical
	Richmond Golf Club	34 Bourke Street, Richmond	Outdoor (active)
	Richmond Masjid	10 Paget Street, Richmond	Place of Worship
	Richmond Public School	115 Windsor Street, Richmond	Educational
	Richmond Veterinary Hospital	118 Windsor Street, Richmond	Medical
	St Monicas Primary School	1a Bourke Street, Richmond	Educational
	Sydney Oral Surgery and Implant Specialists	41 March Street, Richmond	Medical

2.2 Existing noise surveys and monitoring locations

Unattended noise monitoring was completed in the study area during September 2023. The measured noise levels have been used to determine the existing noise environment and to set the criteria used to assess the potential impacts from the proposal.

The ambient noise monitoring was conducted during a regular (non-holiday) period for a minimum of seven days at each location. The measured existing noise levels are representative of the background noise levels at receivers that would likely be most affected by the construction and operation of the proposal in each NCA.

The noise monitoring equipment continuously measured existing noise levels in 15-minute periods during the daytime, evening and night-time. All equipment carried current National Association of Testing Authorities (NATA) calibration certificates and calibration was checked before and after each measurement.

The results of the noise monitoring have been analysed to exclude noise from extraneous events and data affected by adverse weather conditions, such as strong wind or rain (based on the Richmond RAAF Bureau of Meteorology weather station around 3-6 km from the monitoring locations), to establish representative existing noise levels for each NCA. The period noise levels have then been determined based on the remaining valid data, ensuring a minimum of seven days was considered at each location.

The noise monitoring locations are shown in Figure 2-1 and the results are summarised in Table 2-2. Details of each monitoring location together with graphs of the measured daily noise levels are provided in Appendix B.

Figure 2-1: Site plan, receivers and noise monitoring locations

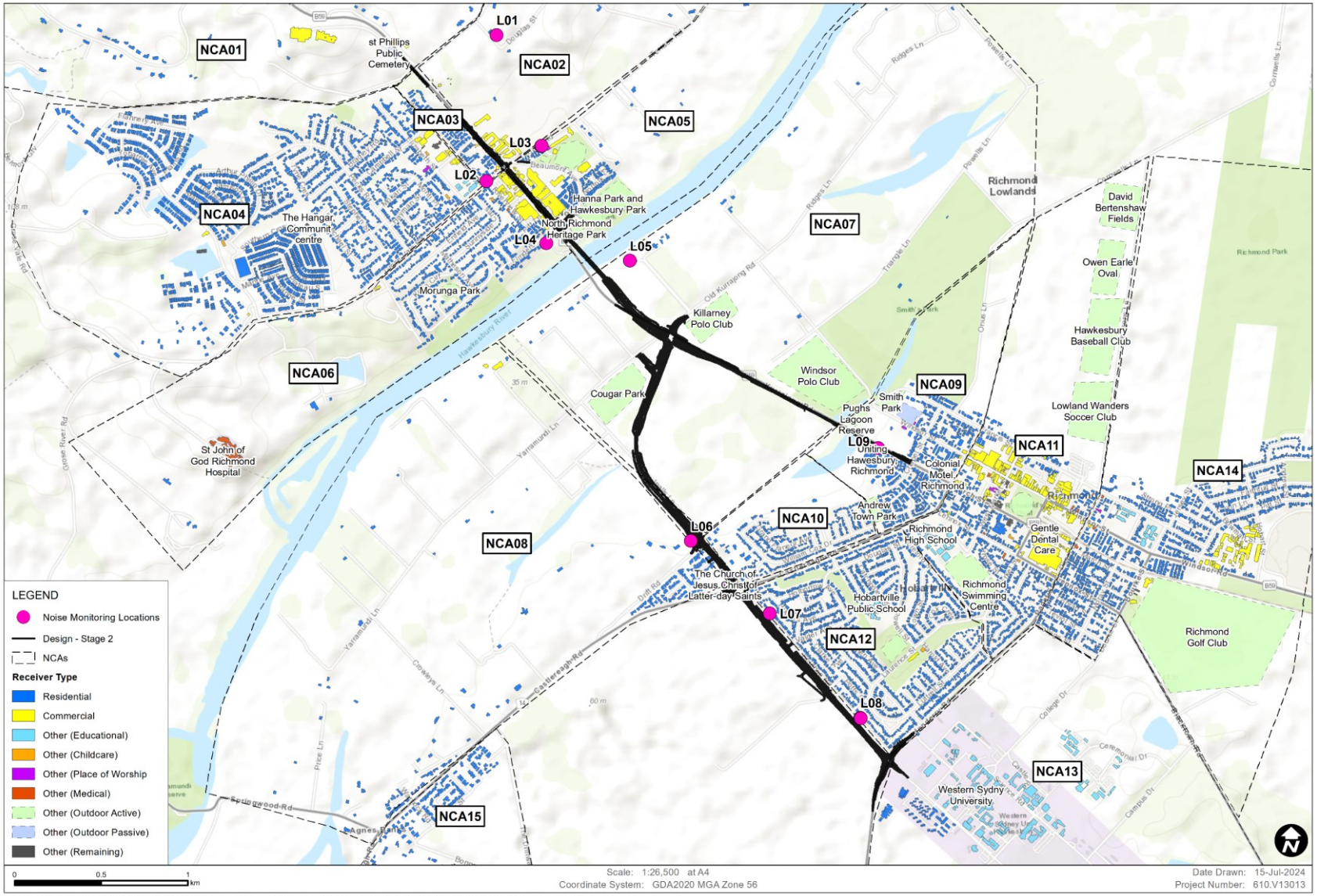


Table 2-2: Summary of unattended noise monitoring results

ID	Address	Measured Noise Level (dBA)							
		Construction[1]						Operational[2]	
		Background Noise (RBL)			Average Noise (LAeq)			Average Noise (LAeq)	
		Day	Evening	Night	Day	Evening	Night	Day	Night
L01	1 Douglas Street	36	40	30	48	46	45	-[4]	-[4]
L02	12 Grose Vale Road	58	47	32	67	66	63	67	63
L03	19 Terrance Road	41	42	31	66	63	60	65	60
L04	9 Shortland Close[3]	-	-	-	-	-	-	-[4]	-[4]
L05	148 Old Kurrajong Road	45	46	31	52	51	49	52	50
L06	2 Drift Road	36	39	25	50	49	47	-[4]	-[4]
L07	9 Southee Road	38	39	30	61	59	56	61	56
L08	97 Southee Road	37	34	21	63	60	57	62	58
L09	25 Chapel Street	52	48	39	62	59	58	-[4]	-[4]

Note 1: Construction noise is assessed during the daytime which is 7 am to 6 pm, the evening which is 6 pm to 10 pm and the night-time which is 10 pm to 7 am. See the NSW EPA Interim Construction Noise Guideline.

Note 2: Operational road traffic noise is assessed during the daytime which is 7 am to 10 pm and the night-time which is 10 pm to 7 am. See the NSW EPA Road Noise Policy.

Note 3: Results from this location not used due to equipment malfunction.

Note 4: Location only relevant to construction assessment, not used for the operational assessment.

Short-term attended noise monitoring was also completed at each monitoring location. The attended measurements allow the contributions of the various noise sources at each location to be determined. Detailed observations from the attended measurements are provided in Appendix B.

3. Policy context

3.1 Construction noise and vibration

3.1.1 Construction noise and vibration guidelines

The main guidelines used to assess construction impacts from the proposal are listed in Table 3-1. The guidelines aim to protect the community and environment from excessive adverse noise and vibration impacts as projects are constructed.

Table 3-1: Construction noise and vibration guidelines

Guideline/Policy Name	Where Guideline Used
Interim Construction Noise Guideline (ICNG) (DECC, 2009)	Assessment of airborne noise impacts on sensitive receivers
AS2107:2016 Acoustics – Recommended design sound levels and reverberation times for building interiors	Provides recommended design sound levels for internal areas of occupied spaces
Environmental Criteria for Road Traffic Noise (ECRTN) (EPA, 1999)	Contains guidance for assessing potential sleep disturbance impacts
Guideline for Child Care Centre Acoustic Assessment Version 2.0 (GCCCAA), Association of Australasian Acoustical Consultants (AAAC), 2013	Contains criteria for child care centres
Road Noise Policy (RNP) (DECCW, 2011)	Assessment of construction traffic impacts
BS 7385 Part 2-1993 Evaluation and measurement for vibration in buildings Part 2, BSI, 1993	Assessment of vibration impacts (structural damage) to non-heritage sensitive structures
DIN 4150:Part 3-2016 Structural vibration – Effects of vibration on structures, Deutsches Institute fur Normung, 1999	Screening assessment of vibration impacts (structural damage) to heritage sensitive structures, where the structure is found to be unsound
Assessing Vibration: a technical guideline (DEC, 2006)	Assessment of vibration impacts on sensitive receivers
Construction Noise and Vibration Guideline (Roads) (CNVG-R) (Transport, 2023)	Assessment and management protocols for airborne noise and vibration impacts for road infrastructure projects

3.1.2 Interim construction noise guideline

The NSW Interim Construction Noise Guideline (ICNG) is used to assess and manage impacts from construction noise on residences and other sensitive land uses in NSW.

The ICNG contains procedures for determining project specific Noise Management Levels (NMLs) for sensitive receivers based on the existing background noise in the area. The 'worst-case' noise levels from construction of a project are predicted and then compared to the NMLs in a 15-minute assessment period to determine the likely impact of the project.

The NMLs are not mandatory limits, however, where construction noise levels are predicted or measured to be above the NMLs, feasible and reasonable work practices to minimise noise emissions are to be investigated.

Residential receivers

The ICNG approach for determining NMLs at residential receivers is shown in Table 3-2.

Table 3-2: ICNG NMLs for residential receivers

Time of Day	NML $L_{Aeq(15minute)}$	How to Apply
Standard Construction Hours Monday to Friday 7:00 am to 6:00 pm Saturday 8:00 am to 1:00 pm No work on Sundays or public holidays	Noise affected RBL[1] + 10 dB	The noise affected level represents the point above which there may be some community reaction to noise Where the predicted or measured $L_{Aeq(15minute)}$ 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 dBA	The Highly Noise Affected (HNA) level represents the point above which there may be strong community reaction to noise Where noise is above this level, the relevant authority (consent, determining or regulatory) may require respite periods by restructuring the hours that the very noisy activities can occur, taking into account: 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 Standard Construction 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 practises have been applied and noise is more than 5 dB above the noise affected level, the proponent should negotiate with the community.

Note 1: The RBL is the Rating Background Level and the ICNG refers to the calculation procedures in the NSW Industrial Noise Policy (INP). The INP has been superseded by the NSW EPA Noise Policy for Industry (NPfI).

The ICNG recommends work to be completed during Standard Construction Hours where possible. More stringent requirements are placed on work that is required to be completed outside Standard Construction Hours (ie during the evening or night-time), which reflects the greater sensitivity of communities to noise impacts during these periods.

Sleep disturbance

Infrastructure projects often require certain work to be completed during the night-time. Where night work is located close to residential receivers, there is potential for sleep disturbance impacts.

The ICNG lists five categories of work that might need to be undertaken outside of Standard Construction Hours:

- The delivery of oversized equipment or structures that require special arrangements to transport on public roads
- Emergency work to avoid the loss of life or damage to property, or to prevent environmental harm
- Maintenance and repair of public infrastructure where disruption to essential services or considerations of worker safety do not allow work within standard hours
- Public infrastructure work that shortens the length of the project and is supported by the affected community
- Work where a proponent demonstrates and justifies a need to operate outside the recommended standard hours.

Where construction work is planned to extend over more than two consecutive nights, the ICNG recommends that an assessment of sleep disturbance impacts should be completed. The ICNG refers to *the NSW Environmental Criteria for Road Traffic Noise* (which has since been superseded by the Road Noise Policy) for assessing the potential impacts, which notes that to limit the level of sleep disturbance, the L1 level (or LAmax) should not exceed the existing L90 background noise level by more than 15 dB.

Summary of residential NMLs

The residential NMLs for the proposal have been determined in accordance with the requirements of the ICNG using the results from the unattended existing noise monitoring (see Section 2) and are shown in Table 3-3.

Table 3-3: Residential receiver construction noise management levels

NCA	Representative Background Monitoring Location	Noise Management Level (LAeq(15minute) - dBA)				Sleep disturbance Screening Criteria (RBL +15dB)
		Standard Daytime (RBL +10dB)	Out of Hours			
			Daytime[1] (RBL +5dB)	Evening (RBL +5dB)	Night-time (RBL +5dB)	
NCA01	L.01	46	41	41[2]	35	45
NCA02	L.01	46	41	41[2]	35	45
NCA03	L.02	68	63	52	37	47
NCA04	L.05	55	50	50[2]	36	46
NCA05	L.03	51	46	46[2]	36	46
NCA06	L.05	55	50	50[2]	36	46
NCA07	L.05	55	50	50[2]	36	46
NCA08	L.06	46	41	41[2]	35	45
NCA09	L.09	62	57	53	44	54
NCA10	L.06	46	41	41[2]	35	45
NCA11	L.09	62	57	53	44	54
NCA12	L.08	47	42	39	35	45
NCA13	L.08	47	42	39	35	45
NCA14	L.09	62	57	53	44	54
NCA15	L.08	47	42	39	35	45

Note 1: Daytime out of hours is 7 am to 8 am and 1 pm to 6 pm on Saturday, and 8 am to 6 pm on Sunday and public holidays.

Note 2: Where the evening RBL is higher than the daytime RBL, the daytime RBL has been adopted for calculation of the evening NML based on guidance in the NPfI.

Other sensitive land uses and commercial receivers

Several non-residential land uses have been identified in the study area. The NMLs for 'other sensitive' receivers are shown in Table 3-4.

Table 3-4: NMLs for 'Other Sensitive' Receivers

Land Use	Noise Management Level LAeq(15minute) (dBA) (Applied when the property is in use)	
	Internal	External
ICNG 'Other Sensitive' Receivers		
Classrooms at schools and other educational institutions	45	55[1]

Land Use	Noise Management Level LAeq(15minute) (dBA) (Applied when the property is in use)	
	Internal	External
Hospital wards and operating theatres	45	65[2]
Places of worship	45	55[1]
Active recreation areas (characterised by sporting activities which generate noise)	-	65
Passive recreation areas (characterised by contemplative activities that generate little noise)	-	60
Commercial	-	70
Industrial	-	75
Non-ICNG 'Other Sensitive' Receivers		
Hotel – daytime & evening[3]	50	60[1]
Hotel – night-time[3]	40	50[1`]
Child care centres – sleeping areas[4]	35	45[1]
Library	45	55
Aged Care	Considered as Residential	

Note 1: It is assumed that these receivers have windows partially open for ventilation which results in internal noise levels being around 10 dB lower than the external noise level.

Note 2: It is assumed that these receivers have fixed windows which conservatively results in internal noise levels being around 20 dB lower than the external noise level.

Note 3: Criteria taken from AS2107.

Note 4: Criteria taken from Association of Australian Acoustical Consultants Guideline for Child Care Centre Acoustic Assessment.

3.1.3 Construction traffic noise guidelines

The potential impacts from construction traffic associated with the proposal when travelling on public roads are assessed under the NSW EPA Road Noise Policy (RNP) and Transport's Construction Noise and Vibration Guideline (Roads) (CNVG-R).

An initial screening test is first applied to evaluate if existing road traffic noise levels are expected to increase by more than 2.0 dB as a result of construction traffic. Where this is considered likely, further assessment is required using the RNP and Road Noise Criteria Guideline (RNCG) base criteria shown in Table 3-5.

Table 3-5: RNP/RNCG criteria for assessing construction traffic on public roads

Road Category	Type of Project/Land Use	Assessment Criteria (dBA)	
		Daytime (7 am – 10 pm)	Night-time (10 pm – 7 am)
Freeway/ arterial/ sub-arterial roads	Existing residences affected by additional traffic on existing freeways/arterial/sub-arterial roads generated by land use developments	LAeq(15hour) 60 (external)	LAeq(9hour) 55 (external)
Local roads	Existing residences affected by additional traffic on existing local roads generated by land use developments	LAeq(1hour) 55 (external)	LAeq(1hour) 50 (external)

3.1.4 Construction vibration guidelines

The effects of vibration from construction work can be divided into three categories:

- Those in which the occupants of buildings are disturbed (**human comfort**). People can sometimes perceive vibration impacts when vibration generating construction work is located close to occupied buildings. Vibration from construction work tends to be intermittent in nature and the EPA's Assessing Vibration: a technical guideline (2006) provides criteria for intermittent vibration based on the Vibration Dose Value (VDV), as shown in Table 3-6. While the construction activities for the proposal are generally not expected to result in continuous or impulsive vibration impacts, criteria are provided in Table 3-7.
- Those where building contents may be affected (**building contents**). People perceive vibration at levels well below those likely to cause damage to building contents. For most receivers, the human comfort vibration criteria are the most stringent and it is generally not necessary to set separate criteria for vibration effects on typical building contents. Exceptions to this can occur when vibration sensitive equipment, such as electron microscopes or medical imaging equipment, are in buildings near to construction work. No such equipment has been identified in the study area.
- Those where the integrity of the building may be compromised (**structural/cosmetic damage**). If vibration from construction work is sufficiently high, it can cause cosmetic damage to elements of affected buildings. Industry standard cosmetic damage vibration limits are specified in British Standard BS 7385 and German Standard DIN 4150. The limits are shown in Table 3-8 and Table 3-9.

Table 3-6: Human comfort vibration – vibration dose values for intermittent vibration

Building Type	Assessment Period	Vibration Dose Value[1] ($m/s^{1.75}$)	
		Preferred	Maximum
Critical Working Areas (eg operating theatres or laboratories)	Day or night-time	0.10	0.20
Residential	Daytime	0.20	0.40
	Night-time	0.13	0.26
Offices, schools, educational institutions and places of worship	Day or night-time	0.40	0.80
Workshops	Day or night-time	0.80	1.60

Note 1: The VDV accumulates vibration energy over the daytime and night-time assessment periods, and is dependent on the level of vibration as well as the duration.

Table 3-7: Human comfort vibration – preferred and maximum weighted root mean square values for continuous and impulsive vibration acceleration (m/s^2) 1–80 Hz

Location	Assessment period	Preferred values		Maximum values	
		z-axis	x- and y-axis	z-axis	x- and y-axis
Continuous vibration					
Residential	Daytime	0.010	0.0071	0.020	0.014
	Night-time	0.007	0.005	0.014	0.010
Offices, schools, educational institutions and places of worship	Day or night-time	0.020	0.014	0.040	0.028
Workshops	Day or night-time	0.04	0.029	0.080	0.058
Impulsive vibration					
Residential	Daytime	0.30	0.21	0.60	0.42
	Night-time	0.10	0.071	0.20	0.14

Location	Assessment period	Preferred values		Maximum values	
		z-axis	x- and y-axis	z-axis	x- and y-axis
Offices, schools, educational institutions and places of worship	Day or night-time	0.64	0.46	1.28	0.92
Workshops	Day or night-time	0.64	0.46	1.28	0.92

Table 3-8: Cosmetic damage – BS 7385 transient vibration values for minimal risk of damage

Group	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 mm/s at 4 Hz and above	
2	Unreinforced or light framed structures. Residential or light commercial type buildings	15 mm/s at 4 Hz increasing to 20 mm/s at 15 Hz	20 mm/s at 15 Hz increasing to 50 mm/s at 40 Hz and above

Note 1: Where the dynamic loading caused by continuous vibration may give rise to dynamic magnification due to resonance, especially at the lower frequencies where lower guide values apply, then the guide values may need to be reduced by up to 50%.

Table 3-9: Cosmetic damage – DIN 4150 guideline values for short-term vibration on structures

Group	Type of Structure	Guideline Values Vibration Velocity (mm/s)				
		Foundation, All Directions at a Frequency of			Topmost Floor, Horizontal	Floor Slabs, Vertical
		1 to 10 Hz	10 to 50 Hz	50 to 100 Hz	All frequencies	All frequencies
1	Buildings used for commercial purposes, industrial buildings and buildings of similar design	20	20 to 40	40 to 50	40	20
2	Residential buildings and buildings of similar design and/or occupancy	5	5 to 15	15 to 20	15	20
3	Structures that, because of their particular sensitivity to vibration, cannot be classified as Group 1 or 2 and are of great intrinsic value (eg heritage listed buildings)	3	3 to 8	8 to 10	8	20[1]

Note 1: It may be necessary to lower the relevant guideline value markedly to prevent minor damage.

3.1.5 Heritage buildings or structures

Heritage listed buildings and structures should be considered on a case-by-case basis but as noted in BS 7385 should not be assumed to be more sensitive to vibration, unless structurally unsound. Where a heritage building is deemed to be sensitive, the more stringent DIN 4150 Group 3 guideline values in Table 3-9 can be applied.

Heritage listed items identified in the study area are shown on the vibration impact maps in Section 5.4.

3.1.6 Minimum working distances for vibration intensive works

Minimum working distances for typical vibration intensive construction equipment are provided in the CNVG-R and are shown in Table 3-10. The minimum working distances are for both cosmetic damage (from BS 7385 and DIN 4150) and human comfort (from the NSW EPA Assessing Vibration: a technical guideline). They are calculated from empirical data which suggests that where work is further from receivers than the quoted minimum distances then impacts are not considered likely.

Table 3-10: Recommended minimum working distances from vibration intensive equipment

Plant Item	Rating/Description	Minimum Distance		
		Cosmetic Damage		Human Response (NSW EPA Guideline)
		Residential and Light Commercial (BS 7385)	Heritage Items[1] (DIN 4150, Group 3)	
Vibratory Roller	<50 kN (1–2 tonne)	5 m	11 m	15 m to 20 m
	<100 kN (2–4 tonne)	6 m	13 m	20 m
	<200 kN (4–6 tonne)	12 m	25 m	40 m
	<300 kN (7–13 tonne)	15 m	31 m	100 m
	>300 kN (13–18 tonne)	20 m	40 m	100 m
	>300 kN (>18 tonne)	25 m	50 m	100 m
Small Hydraulic Hammer	300 kg (5 to 12 t excavator)	2 m	5 m	7 m
Medium Hydraulic Hammer	900 kg (12 to 18 t excavator)	7 m	15 m	23 m
Large Hydraulic Hammer	1,600 kg (18 to 34 t excavator)	22 m	44 m	73 m
Vibratory Pile Driver	Sheet piles	2 m to 20 m	5 m to 40 m	20 m
Piling Rig – Bored	≤ 800 mm	2 m (nominal)	5 m	4 m
Jackhammer	Hand held	1 m (nominal)	3 m	2 m

Note 1: Minimum working distances for heritage items that have been identified as structurally unsound or otherwise particularly sensitive to vibration. These distances have been calculated based on the 2.5 mm/s PPV criterion from DIN 4150 and the cosmetic damage minimum working distances presented in the CNVG-R with reference to BS 7385. It is recommended that the 2.5 mm/s PPV criterion is considered at the foundation (rather than the highest floor as suggested in DIN 4150).

The minimum working distances are indicative and will vary depending on the particular item of equipment and local geotechnical conditions and the dominant frequency of the construction vibration.

3.2 Operational noise and vibration guidelines

The guidelines used to assess the potential operational road traffic noise impacts from the project are listed in Table 3-11. The guidelines aim to protect the community and environment from excessive noise and vibration impacts from the long-term operation of projects.

Table 3-11: Operational road traffic noise and vibration guidelines

Guideline/Policy Name	When Guideline is Used
Road Noise Policy (RNP) (DECCW, 2011)	Operational road traffic noise assessment
Road Noise Criteria Guideline (RNCG) (Transport 2023)	Defines Transport's interpretation of the RNP and details how criteria are applied to sensitive receivers
Road Noise Mitigation Guideline (RNMG) (Transport, 2023)	Details how additional mitigation measures are to be applied to Transport road infrastructure projects
Road Noise Model Validation Guideline (Transport, 2022)	Contains procedures for validating operational road traffic noise models
Noise and vibration assessment procedure (for road traffic and construction) (Transport, 2023)	Defines how to complete operational road traffic noise and vibration assessments
AS2107:2016 Acoustics – Recommended design sound levels and reverberation times for building interiors	Provides recommended design sound levels for internal areas of occupied spaces.
At-receiver road noise treatment guideline (Draft) (Transport, 2023)	Provides an overview and discussion of feasible and reasonable at-receiver noise mitigation measures

3.2.1 Airborne noise – road noise policy and noise criteria guideline

The NSW Road Noise Policy (RNP) is used to assess and manage potential airborne noise impact from new and redeveloped road projects.

This assessment is undertaken with guidance from the Road Noise Criteria Guideline (RNCG) which is Transport's interpretation of the RNP and provides a consistent approach to identifying road noise criteria for infrastructure projects.

The RNP and RNCG provide non-mandatory criteria for residential and 'other sensitive' land uses. Where a project results in road traffic noise levels which are predicted to be above the criteria, the project should investigate feasible and reasonable noise mitigation measures to minimise the impacts.

The RNP and RNCG use the following terms to describe and assess the impacts from road projects:

- 'No Build' – the assessment scenario used to predict noise levels if the project were not to go ahead
- 'Build' – the assessment scenario used to predict noise levels with the project.

The difference between the 'Build' and the 'No Build' noise levels is used to determine the impact of the project.

Residential receivers

The Richmond Bypass is considered a 'new' road (except where it intersects with Londonderry Road, Castlereagh Road and Bells Line of Road) as the road is realigned from the existing roads in the area and expected to carry a larger volume of traffic compared to the existing Kurrajong Road and Inalls Lane. The new bridge over the Hawkesbury River is also considered a 'new' road as it changes alignment and elevation from the existing bridge. All other roads are considered to be 'existing/redeveloped' roads. The new and existing/redeveloped roads in the study area are shown in Appendix D.

The relevant noise criteria for residential receivers affected by traffic noise are shown in Table 3-12 based on the type of road as noted above.

Table 3-12: RNCG criteria for residential receivers

Road Category	Type of Project/Land Use	Assessment Criteria (dBA)	
		Daytime (7 am – 10 pm)	Night-time (10 pm – 7 am)
Freeway/ arterial/ sub-arterial roads	1. Existing residences affected by noise from **new** freeway/arterial/sub-arterial road corridors	LAeq(15 hour) 55 (external)	LAeq(9 hour) 50 (external)
	2. Existing residences affected by noise from **redevelopment** of existing freeway/arterial/sub-arterial roads	LAeq(15 hour) 60 (external)	LAeq(9 hour) 55 (external)
	3. Existing residences affected by **additional traffic** on existing freeways/arterial/sub-arterial roads generated by land use developments		
	4. Existing residences affected by both new roads and the redevelopment of existing freeway/arterial/sub-arterial roads in a **transition zone**[1]	Between LAeq(15hour) 55-60 (external)	Between LAeq(9hour) 50-55 (external)
	5. Existing residences affected by increases in traffic noise of 12 dB or more from **new** freeway/arterial/sub-arterial roads[2]	Between LAeq(15hour) 42-55 (external)	Between LAeq(9hour) 42-50 (external)
	6. Existing residences affected by increases in traffic noise of 12 dB or more from **redevelopment** of existing freeway/arterial/sub-arterial roads[2]	Between LAeq(15hour) 42-60 (external)	Between LAeq(9hour) 42-55 (external)
Local Roads	7. Existing residences affected by noise from new local road corridors	LAeq(1hour) 55 (external)	LAeq(1hour) 50 (external)
	8. Existing residences affected by noise from redevelopment of existing local roads		
	9. Existing residences affected by additional traffic on existing local roads generated by land use developments		

Note 1: The criteria are assigned to the entire residence and depend on the proportion of noise coming from new and redeveloped roads.

Note 2: The relative increase criterion at each facade is determined from the existing traffic noise level plus 12 dB.

The criteria are lower for the night-time due to the greater sensitivity of communities to noise impacts during this period.

The RNP and RNCG require noise to be assessed at project opening and for a future design year, which is typically ten years after opening. For the proposal, the opening year for Stage 2A is 2029 and the future design year which will include Stage 2B is 2039.

'Other Sensitive' land uses

Several 'other sensitive' non-residential land uses have been identified in the study area. The noise criteria for these receivers are shown in Table 3-13. The RNCG does not consider commercial and industrial receivers as being sensitive to operational airborne road traffic noise impacts.

Table 3-13: NCG Criteria for other sensitive receivers

Existing Sensitive Land Use	Assessment Criteria (dB)		Additional Considerations
	Daytime (7 am – 10 pm)	Night-time (10 pm – 7 am)	
School classrooms	LAeq(1 hour) 40 (internal)[1]	-	In the case of buildings used for education or health care, noise level criteria for spaces other than classrooms and wards may be obtained by interpolation from the 'maximum' levels shown in Australian Standard 2107:2000 (Standards Australia 2000).
Hospital wards	LAeq(1 hour) 35 (internal)	LAeq(1 hour) 35 (internal)	
Places of worship	LAeq(1 hour) 40 (internal)[1]	LAeq(1 hour) 40 (internal)[1]	The criteria are internal, ie the inside of a church. Areas outside the place of worship, such as a churchyard or cemetery, may also be a place of worship. Therefore, in determining appropriate criteria for such external areas, it should be established what is in these areas that may be affected by road traffic noise.
Open space (active use	LAeq(15 hour) 60 (external)	-	Active recreation is characterised by sporting activities and activities which generate their own noise or focus for participants, making them less sensitive to external noise intrusion.
Open space (passive use)	LAeq(15 hour) 55 (external)	-	Passive recreation is characterised by contemplative activities that generate little noise and where benefits are compromised by external noise intrusion (eg playing chess, reading).
Child care facilities	Sleeping rooms LAeq(1 hour) 35 (internal)[1] Indoor play areas LAeq(1 hour) 40 (internal)[1] Outdoor play areas LAeq(1 hour) 55 (internal)	-	Multipurpose spaces (eg shared indoor play/sleeping rooms) should meet the lower of the respective criteria. Measurements for sleeping rooms should be taken during designated sleeping times for the facility, or if these are not known, during the highest hourly traffic noise level during the opening hours of the facility.
Aged care facilities	-	-	The criteria for residential land uses should be applied to these facilities.

Note 1: The criteria are specified as an internal noise level for this receiver category. As the noise model predicts external noise levels, it has been conservatively assumed that all schools and places of worship have openable windows and external noise levels are 10 dB higher than the corresponding internal level, which is representative of windows being partially open to provide ventilation.

3.2.2 Potential road traffic noise impacts on the surrounding road network

Where a project results in traffic redistribution, noise impacts can occur on the surrounding road network due to vehicles using different routes after the project is complete. The RNCG criteria (see Table 3-12) are therefore to be applied to the surrounding road network (within the study area) where a road project generates an increase in road traffic noise of more than 2.0 dB.

3.3 Traffic Control Signal Audio-Tactile Push Buttons

Noise from pedestrian crossing audio-tactile push buttons is assessed in accordance with the procedure detailed in *Management of noise from traffic control signal audio-tactile push buttons* (RTA, 2005). The guideline outlines noise goals for sleep accommodation and provides methodology to assess noise impacts from audio-tactile push buttons. The noise goals are based on an internal sleep accommodation noise level of no more than 35 dBA applied to relevant noise-sensitive receivers. Due to the transient nature of the push button noise, a maximum noise goal of 15 dB over the sleep accommodation noise goal is allowed, ie an internal L_{Amax} of 50 dBA should not be exceeded. Generally, a 10 dB reduction in noise level from outside to inside the building can be assumed when windows are partially opened, or 20 dB with windows closed.

To meet a maximum internal noise level of 50 dBA, distance setbacks are detailed in the guideline. Assuming a maximum output of 85 dBA (measured at 1 m) for each push button, a minimum distance setback of 18 m from each push button may be generally applied to meet an internal noise level of 50 dBA with windows open. With windows closed, the minimum setback distance could be reduced to around 6 m for light construction buildings and 3 m for masonry buildings. For sensitive-receivers within the minimum setback distance, the likelihood of annoyance and sleep disturbance increases closer to an audio-tactile push button.

4. Methodology

4.1 Construction airborne noise assessment methodology

A noise model of the study area has been used to predict noise levels from the proposed construction work to all surrounding receivers. The model uses ISO 9613 algorithms in SoundPLAN V8.2 software.

Local terrain, receiver buildings and structures were digitised in the noise model to develop a three-dimensional representation of the construction sites and surrounding areas.

4.1.1 Work descriptions

Representative scenarios have been developed to assess the likely impacts from the various construction phases of the proposal. These scenarios are shown in Table 4-1 together with a high-level description of each work activity. The locations of the various work scenarios are shown in Appendix C. The scenarios represent one possible way that the proposal could be constructed and may not necessarily be the same methodology that the contractor engaged to construct the proposal would use. The final construction methodology (including the full plant and equipment list) and the expected construction noise levels would be confirmed during detailed design.

The assessment uses 'realistic worst-case' scenarios to determine the impacts from the noisiest 15-minute period that are likely to occur for each work scenario, as required by the ICNG. The impacts represent construction noise levels without mitigation applied.

The scenarios that are likely to have the highest noise levels have been separated into 'peak' and 'typical' work scenarios. The 'peak' work scenarios represent the noisiest stages and can require noise intensive equipment such as concrete saws. While 'peak' work would be required at certain times in most locations, the highest noise impact work would only last for relatively short periods of the overall work duration The 'typical' work scenarios represent typical noise emissions from the proposal when noise intensive equipment is generally not in use.

The assessment is generally considered conservative as the calculations assume several items of construction equipment are in use at the same time within individual scenarios.

Table 4-1: Construction scenario descriptions

ID	Scenario[1,2]	Description
W.01	Early Works - Existing Bridge Only	During early work, the handrail on the upstream side of the existing bridge would be replaced. This would involve the following activities: • establishment of traffic control (single lane closure on Richmond Bridge and closure of pedestrian access across the bridge) • removal of existing handrail • installation of new handrail • demobilisation of traffic control.

ID	Scenario[1,2]	Description
W.02	Establishment Works – Peak	The following activities would be carried out during establishment of the overall work site: • clearing trees and mulching • potential removal of redundant utilities and relocation of existing utilities • establish temporary security fencing • establish temporary pedestrian fencing • establish ancillary facilities, including temporary access • installation of construction water quality and sediment control measures. The following activities would be carried out at the commencement of work in each work zone: • topsoil stripping • hardstand construction • establish temporary traffic control barriers, signage and lighting along the full length of the existing roadway to separate the construction site from passing traffic.
W.03	Establishment Works - Typical	
W.04	Earthworks/Drainage - Peak	The following activities would be carried out during bulk earthworks: • embankment foundation treatments • importation of fill • construction of the new fill embankments • excavation of cuttings and swales. • construction of culverts • installation of drainage pits and pipes • construction of permanent swales and permanent water quality basins • bored piles for noise walls.
W.05	Earthworks/Drainage – Typical	
W.06	Bridge Construction – Peak	Activities that would occur during bridge construction include: • construction of bridge approaches and abutments • piling of bridge foundations • installation of pile caps and piers • delivery and installation of girders • construction of the superstructure, including pouring of the bridge deck and finishing work.
W.07	Bridge Construction - Typical	
W.08	Road Works - Peak	Activities that would occur during road works include: • removal and demolition of existing pavement (where required) • installation of ITS and TCS networks • construction of the pavement layers including the subbase and asphalt layers • construction of retaining walls • conversion of the existing bridge to an active transport connection, including installation of handrails on the downstream side of the bridge • tie-ins to existing pavement at existing road tie-ins.
W.09	Road Works - Typical	
W.10	OOH Road Works - Tie-ins - Peak	
W.11	OOH Road Works - Tie-Ins - Typical	

ID	Scenario[1,2]	Description
W.12	Landscaping and Finishing Works - Typical	This work would include: • installation of the noise wall • installation of road furniture (including lighting, safety barriers, signage and guideposts) • pavement marking • installation of urban design treatments and features • landscaping work • removal of all remaining temporary work such as traffic control barriers, ancillary facilities and lighting • rehabilitation work will include batter protection and landscaping plus reinstatement of all disturbed areas.
W.13	Compound - General Operation	This would include: • bulk material storage and laydown area • plant and equipment storage • construction worker parking and site offices • stockpile management. • Truck movements along access route to Ancillary B and Ancillary D.

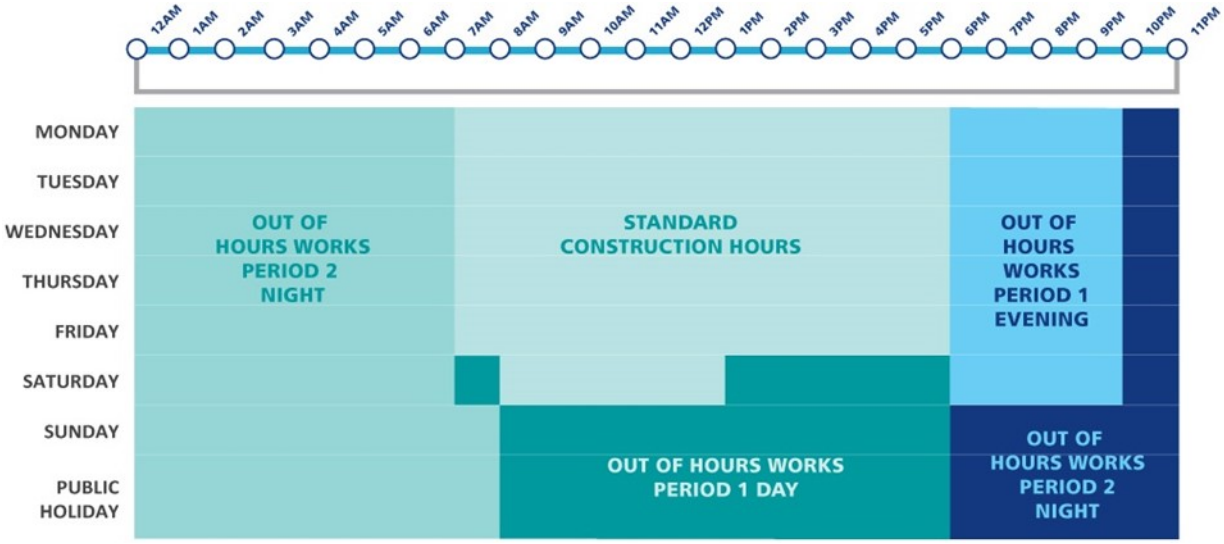
Note 1: Equipment lists for each scenario and Sound Power Level data are provided in Appendix C.
Note 2: OOH = Out of Hours.

The assessment in Section 5 presents a summary of the predicted impacts from the above construction scenarios. To gain an understanding of the potential impacts from the proposal, detailed results are also provided for some of the key construction scenarios.

4.1.2 Work hours

Construction of the proposal would be carried out during Standard Construction Hours where possible. Standard Construction Hours are defined in the ICNG and shown in Table 4-2.

Table 4-2: Standard construction hours[1,2,3]



Note 1: Taken from the Transport Construction Noise and Vibration Guideline (Public Transport Infrastructure).
Note 2: Standard Construction Hours are Monday to Friday 7 am to 6 pm and Saturdays from 8 am to 1 pm, as defined in the ICNG.
Note 3: Work outside of Standard Construction Hours is defined as 'Out-of-Hours Work' (OOHW) and can be divided into two periods of sensitivity. OOHW Period 1 which relates to evening (and weekend daytime) work, and OOHW Period 2 which relates to night-time (and weekend evening) work.

Construction activities that may result in traffic restrictions are likely to be carried out outside of Standard Construction Hours during evening and night-time periods to minimise disruption to traffic and provide a safer working environment for construction workers. The following work is likely to be carried out as evening and night-time work, some with short term lane closures:

- Tie in work to existing roads
- Work that would require traffic switches outside of peak times so as to not disrupt traffic
- Some work required at bridges
- Potential utility and drainage work, including relocations and adjustments.

The expected periods in which the works would be completed are shown in Table 4-3. The expected durations of each scenario are also provided for Stage 2A and Stage 2B.

Table 4-3: Construction scenarios – working hours

ID	Scenario	Stage	Hours of Work			
			Std. Day	Day OOH[1]	Evening	Night-time
W.01	Early Works - Existing Bridge Only	Stage 2A only	-	-	✓	✓
W.02	Establishment Works - Peak	Stage 2A and 2B	✓	-	-	-
W.03	Establishment Works - typical	Stage 2A and 2B	✓	-	-	-
W.04	Earthworks/Drainage - Peak	Stage 2A and 2B	✓	-	-	-
W.05	Earthworks/Drainage - Typical	Stage 2A and 2B	✓	-	-	-
W.06	Bridge Construction - Peak	Stage 2A only	✓	-	-	-
W.07	Bridge Construction - Typical	Stage 2A only	✓	-	-	-
W.08	Road Works - Peak	Stage 2A and 2B	✓	-	-	-
W.09	Road Works - Typical	Stage 2A and 2B	✓	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	Stage 2A and 2B	-	-	✓	✓
W.11	OOH Road Works - Tie-Ins - Typical	Stage 2A and 2B	-	-	✓	✓
W.12	Landscaping and Finishing works - Typical	Stage 2A and 2B	✓	-	-	-
W.13	Compound - General Operation	Stage 2A and 2B	✓	✓	✓	✓

Note 1: OOH = Out of Hours. Daytime out of hours is Saturday between 7 am to 8 am and 1 pm to 6 pm, on Sunday and public holidays between 8 am to 6 pm.

Construction of Stage 2A could commence in 2025 with early work, however the main construction is anticipated to commence from 2026 subject to funding and last for a period of about three years. Construction of Stage 2B would take about two years and could be delivered by 2039, subject to additional funding approval. Stage 2A and Stage 2B are anticipated to be open to traffic by 2029 and 2039, respectively.

The estimated construction durations are indicative and would be confirmed by the construction contractor(s).

4.2 Construction vibration assessment

The potential impacts during vibration intensive work have been assessed using the CNVG-R minimum working distances for cosmetic damage and human response shown in Table 3-10. The assessment identifies structures which are within the minimum working distances based the construction scenarios with vibration intensive equipment as shown in Table 4-4.

Table 4-4: Vibration intensive equipment

ID	Scenario	Vibration Intensive Equipment	Minimum Distance		
			Cosmetic Damage		Human Response (NSW EPA Guideline)
			Residential and Light Commercial (BS 7385)	Heritage Items (DIN 4150, Group 3)	
W.04	Earthworks/ Drainage - Peak	Vibratory Roller (>300 kN 13-18 tonne)	20 m	40 m	100 m
		Piling Rig – Bored (≤ 800 mm)	2 m (nominal)	5 m	4 m
W.06	Bridge Construction - Peak	Piling Rig – Bored (≤ 800 mm)	2 m (nominal)	5 m	4 m
W.08	Road works - Peak	Vibratory Roller (>300 kN 13-18 tonne)	20 m	40 m	100 m
W.10	OOH Road Works - Tie-ins - Peak	Vibratory Roller (>300 kN 13-18 tonne)	20 m	40 m	100 m

Note 1: Other items of vibration generating equipment may be required at times during the works, however, they are expected to be less vibration intensive.

4.3 Construction traffic

The potential impacts from construction traffic on public roads have been predicted using the Calculation of Road Traffic Noise (CoRTN) algorithm.

Where the criteria are found to be exceeded, feasible and reasonable mitigation and management measures should be considered.

4.4 Construction mitigation

The ICNG acknowledges that due to the nature of construction work it is inevitable that there will be impacts where construction is near to sensitive receivers. Several approaches are used on major infrastructure projects to minimise the potential noise and vibration impacts as far as practicable.

Standard mitigation measures

The Construction Noise and Vibration Guideline (Roads) (CNVG-R) contains a number of 'standard mitigation measures' for mitigating and managing noise and vibration impacts during construction of road infrastructure projects.

These standard measures include items such as requiring construction contractors to complete site inductions to make workers aware of any noise and vibration specifics, completing regular monitoring to check noise and vibration levels are as expected, and checking noise emission levels from construction equipment to ensure they remain within manufacturers' specifications. The 'standard mitigation measures' are shown in full in Appendix C.

Additional Mitigation Measures

Where noise impacts remain after the use of 'standard mitigation measures', the CNVG-R requires 'additional mitigation measures' to be applied, where feasible and reasonable. The 'additional mitigation measures' include items such as notification of upcoming work, using respite where there are high impacts and verification of construction noise and vibration levels. The measures are determined based on the exceedance of the management levels and are shown in Appendix C.

4.5 Operational noise modelling methodology

4.5.1 Key operational features of the proposal

The key features of the proposal that have the potential to change operational road traffic noise impacts in the study area include:

- Stage 2A:
  - New bridge over the Hawkesbury River
  - Widening of Bells Line of Road between the Terrace Road and Grose Vale Road intersection and the Bells Line of Road and Old Kurrajong Road intersection
  - A new bypass of Richmond, from the intersection of Bells Line of Road and Old Kurrajong Road to the intersection of Castlereagh Road and Southee Road.
- Stage 2B:
  - Crooked Lane Widening
  - Continuation of the bypass between Castlereagh Road and Londonderry Road, including a new connection to Southee Road
  - Construction of noise walls between Castlereagh Road and Londonderry Road.

The proposal also includes a new shared use path immediately west of the Kurrajong Road and Chapel Street intersection. This work includes minor horizontal lane realignments of up to around 2 m to accommodate a pedestrian island. The work is classified as 'minor works' as per the RNCG, since it is primarily to improve safety and is not intended to increase the traffic carrying capacity of the road. The existing road noise criteria (see Section 3.2.1) is applied to residential receivers near to minor works where noise levels increase by more than 2.0 dB.

4.5.2 Noise model

A noise model of the study area has been used to predict noise levels from the operation of the proposal to the surrounding receivers. The model uses Calculation of Road Traffic Noise (CoRTN) (UK Department of Transport, 1988) NSW Adaptation algorithms in SoundPLAN V8.2 software.

Local terrain, receiver buildings and structures were digitised in the noise model to develop a three-dimensional representation of the proposal and surrounding areas.

The 'No Build' scenarios use the existing road alignment geometry, with all existing structures and features within the road corridor included.

The 'Build' scenarios use the proposed design of the proposal, which includes all new roads and changes to existing ground levels such as cuttings and embankments.

4.5.3 Project and non-project roads

Roads where design or engineering changes are proposed as part of the proposal are considered as 'project' roads. Existing roads with no upgrades or work occurring are considered 'non-project'.

All major roads in the study area have been modelled together with major roads on the surrounding road network to determine the contributions from 'project' and 'non-project' roads at individual receivers, as required by the RNCG. Project and non-project roads are shown in Appendix D.

4.5.4 Transition zones

The RNCG requires transition zones to be applied at the point where road categories change from 'new' to 'redeveloped' to provide a smooth transition in noise criteria. The 'new' and 'redeveloped' roads are shown in Appendix D along with the transition zones.

4.5.5 Noise modelling parameters

Further details on the noise modelling parameters used in the assessment are shown in Table 4-5.

Table 4-5: Summary of noise model inputs and parameters

Input Parameter	Source of Data
Ground topography	The noise model includes a 'digital ground model' which is an accurate 3D representation of the terrain in the study area. The ground model was constructed from LIDAR point cloud data and 1 m contours.
Buildings, receiver locations and floors	Buildings can provide screening to more distant locations of the study area. The buildings in the noise model were generated from a third-party database, digitised based on satellite imagery, LiDAR and a combination of automated and manual processing to identify building attributes. The buildings have been checked to be suitable for noise modelling. The model predicts noise to every facade of every identified receiver in the assessment area using the following heights: • Floor height – 3 m • Ground floor – 1.5 m • First floor – 4.5 m • Subsequent floors – 1.5 m + 3 m x floor number (ie 7.5, 10.5, etc).
Assessment area	The assessment area extends a minimum of 600 m from the centre line of the outermost traffic lane on each side of the project roads, as required by the RNP/RNCG.
Assessment timeframes	The proposal is assessed 'at-opening' in 2029 and in the 'future design' year in 2039. Noting that only Stage 2A is included in 2029, whereas 2039 includes both Stage 2A and Stage 2B.
Traffic volumes	Existing traffic volumes were measured at the same time as the noise monitoring survey. This data was used to model the existing situation and validate the operational model. The predicted traffic volumes for the 2029 and 2039 assessment used in the assessment are shown in Appendix D.
Vehicle speed	Existing vehicle speeds were measured during the noise monitoring survey and used to validate the noise model. Existing and future posted vehicle speeds used in the Build and No Build modelling situations: • Bells Line of Road/Kurrajong Road: 60km/h or 80km/h • Richmond Bypass: 80km/h • Old Kurrajong Road, Grose Vale Road, Terrace Road: 60km/h • Crooked Lane: 70km/h • Drift Road and Southee Road: 50km/h • Castlereagh Road: 60km/h or 80km/h • Londonderry Road: 60km/h or 80km/h • Inalls Lane: 50km/h or 60km/h

Input Parameter	Source of Data
	• Yurramundi Lane: 60km/h.
Source heights and source correction	Vehicles generally emit road traffic noise at four source heights. These are represented in the noise model by the following: • Cars (at 0.5 m height with a source correction of 0.0 dB) • Truck tyres (at 0.5 m height with a source correction of -5.4 dB) • Truck engines (at 1.5 m height with a source correction of -2.4 dB) • Truck exhausts (at 3.6 m height with a source correction of -8.5 dB). Substantial volumes of heavy vehicles are seen in the study area. Additional corrections have been applied to the model based on the proportion of heavy vehicle types based on the source emission model described in *Evaluation of Calculation of Road Traffic Noise in Australia*, J. Peng, et al, 2017. The adjustments take into account the proportion of heavy vehicle categories, speed and temperature.
Road pavement surface corrections	The existing road surface is a mixture of Dense Grade Asphalt (DGA) and sections of pavements where the surface has worn, as shown in Appendix D. The proposed future road surface is DGA throughout the alignment with the exception of concrete on the roundabout at the intersection of the bypass and Castlereagh Road. The correction factors used in the modelling are: • DGA +0 dB • Worn DGA +1dB[1] • Concrete +3dB.
Ground absorption	Noise levels at receivers can be influenced by the type of ground between the source of noise and the receiver. A ground absorption factor of 50% for residential areas, 75% for open grass areas and 0% for water has been used, as detailed in the Transport *Road Noise Validation Guideline*.
General corrections	The model also includes the following corrections to convert the noise model outputs to the appropriate assessment noise levels: • Facade reflections +2.5 dB • L_{A10} to L_{Aeq} -3 dB.
Noise Contour Map Settings	Grid spacing = 20 m Height above ground = 1.5 m All noise contour maps are free field.

Note 1: Worn DGA correction discussed and agreed with Transport Noise Subject Matter Experts.

4.5.6 Noise model validation

To validate the operational road traffic noise model the 2023 existing scenario was modelled using measured traffic data and compared to existing noise measurements in the study area (see Section 2).

The validation measurement locations are shown in Figure 2-1 and a summary of the model validation is provided in Table 4-6. Only noise monitoring locations used for model validation purposes are shown. Locations not used were generally distant from the main road and used for the purpose of background noise.

Table 4-6: Comparison of measured and predicted road traffic noise levels

Location	Noise Level (dBA)					
	Daytime $L_{Aeq(15hour)}$			Night-time $L_{Aeq(9hour)}$		
	Measured	Predicted	Difference[3]	Measured	Predicted	Difference[3]
L02[1]	67.1	65.3	-1.8	63.1	61.5	-1.6
L03[1]	65.2	64.6	-0.6	59.9	59.3	-0.6
L05[1]	52.0	53.3	1.3	49.6	49.5	-0.1
L07[2]	60.7	61.5	0.8	56.2	56.8	0.6
L08[2]	62.4	61.6	-0.8	58.1	57.0	-1.1
		Median	-0.6		**Median**	-0.6

Note 1: Validation of the noise model was completed using data from 12 to 15 September 2023 and 18 September, excluding weekends which tend to have lower and intermittent traffic volumes. Dates are selected based on available traffic information in the area.

Note 2: Validation of the noise model was completed using data from 12 to 15 September 2023 and 21 September, excluding weekends which tend to have lower and intermittent traffic volumes. Dates are selected based on available traffic information in the area.

Note 3: Difference is Predicted minus Measured. A negative difference indicates the predicted level of road traffic noise is lower than the measured data, a positive difference indicates the predicted level is higher.

The Transport *Road Noise Model Validation Guideline* notes that noise models typically result in random scatter error of ±2.0 dB.

All five model validation locations are within the expected model accuracy. L02 is likely under predicting due to the carpark located directly adjacent from the monitoring location which is expected to result in additional vehicle noise in the measured data that is not accounted for in the noise model predictions.

The predictions show that the noise model is within the accepted tolerances and is valid for predicting road traffic noise levels for the proposal.

4.5.7 Noise mitigation

The Transport *Road Noise Mitigation Guideline* (RNMG) provides guidance in managing and controlling road traffic noise and describes the principles to be applied when reviewing noise mitigation. The RNMG recognises that the RNCG criteria are not always practicable and that it is not always feasible or reasonable to expect that they are achieved.

As projects progress through the early design stages, various road design features are evaluated to assist with minimising road traffic noise. The RNMG defines these 'integrated noise reduction measures' as including:

- Adjustments to vertical and horizontal alignments
- Road gradient modifications
- Traffic management
- Cost effective use of won project spoil to provide landscape mounds where there is suitable site footprint.

Following use of the above measures, site specific 'additional noise mitigation measures' are then required to be investigated for receivers which have residual exceedances of the criteria. When evaluating if a receiver qualifies for consideration of 'additional noise mitigation measures' the RNMG considers how far above the criterion the noise level is and also how much a project increases noise levels. These considerations provide a feasible and reasonable approach to identifying qualifying receivers.

The RNMG provides three triggers where a receiver may qualify for consideration of 'additional noise mitigation' (beyond the use of 'integrated noise reduction measures'). These are:

- Trigger 1 – the predicted 'Build' noise level exceeds the RNCG controlling criterion and the noise level increase due to the project (ie the noise predictions for the 'Build' minus the 'No Build') is greater than 2.0 dB
- Trigger 2 – the predicted 'Build' noise level is 5 dB or more above the RNCG controlling criterion (ie exceeds the cumulative limit) and the receiver is significantly influenced by project road noise, regardless of the incremental impact of the project
- Trigger 3 – the noise level contribution from the road project is acute (daytime $L_{Aeq(15hour)}$ 65 dBA or higher, or night-time $L_{Aeq(9hour)}$ 60 dBA or higher) even if noise levels are controlled by a non-project road.

The eligibility of receivers for consideration of 'additional noise mitigation' is determined before the benefit of low noise pavement and noise barriers are included. The requirement for the project is to provide feasible and reasonable additional mitigation to eligible receivers with the aim of meeting the RNCG controlling criterion.

For receivers that qualify for consideration of 'additional noise mitigation', potential noise mitigation measures are to be considered in the following order of preference:

- At-source mitigation:
  - Quieter road pavement surfaces
- In-corridor mitigation:
  - Noise mounds
  - Noise barriers
- At-receiver mitigation:
  - At-property treatments.

4.5.8 Maximum noise levels

Maximum noise levels near roads are generally controlled by noise from trucks. Where roads are located close to residential receivers there is potential for sleep disturbance impacts from maximum noise level events.

The RNP and RNCG both state that while a maximum noise level assessment is required to be undertaken for new and redeveloped road infrastructure projects, it should only be used as a tool to help prioritise and rank mitigation strategies and should not be applied as a decisive criterion.

The purpose of a maximum noise level assessment is to determine where maximum noise levels are likely to change as a result of a project.

The maximum noise level assessment includes an evaluation of the number and distribution of night-time events in accordance with the RNCG. A maximum noise level event is defined as being any pass-by where:

- The maximum noise level of the event is greater than 65 dBA L_{AFmax}

  and

- The L_{AFmax} – $L_{Aeq(1hour)}$ is greater than or equal to 15 dB.

Existing maximum noise levels were monitored in the study area during the unattended noise monitoring survey (see Section 2). The potential for changes in maximum noise levels to nearby sensitive receivers are then evaluated where appropriate.

4.5.9 Audio-tactile push buttons

A new signalised intersection is proposed at the junction of Londonderry Road, the new bypass and Vines Drive as part of Stage 2B of the proposal, which would each have several pedestrian crossing audio-tactile push buttons. The locations of the push buttons have been considered based on the proposed design of the intersection.

A screening assessment of audio-tactile push button noise was undertaken based on a distance setback of 18 m from the push button locations. This approach conservatively assumes that each building facade is of light construction with partially opened windows.

Stage 2A of the proposal also includes a three-way signalised intersection connecting Kurrajong Road and the new bypass, however, the closest noise sensitive receivers are over 500 m from this intersection. Therefore, it has not been considered in the assessment on audio-tactile push button noise.

5. Assessment of construction impacts

The following overview is based on the predicted noise impacts at the most affected receivers in each NCA and is generally representative of the worst-case situation where construction equipment is at the closest point to each receiver. For most work, the construction noise impacts would frequently be lower than predicted as the worst-case situation at a particular receiver is typically only apparent for a relatively short period when noisy equipment is in use nearby.

The following assessment shows the predicted noise impacts based on the exceedance of the NML, as per the categories in Table 5-1 which are taken from the CNVG-R.

Table 5-1: NML exceedance bands and corresponding CNVG-R perception categories

CNVG-R Perception Categories	Daytime – Standard construction hours		Out of Hours Periods	
	Symbol	NML Exceedance	Symbol	NML Exceedance
Noticeable	·	-[1]	♦	1 to 5 dB
Clearly Audible	●	1 to 10 dB	●	6 to 15 dB
Moderately Intrusive	◆	11 dB to 20 dB	◆	16 dB to 25 dB
Highly Intrusive	■	>20 dB	■	>25 dB

Note 1: Applicable for construction noise levels of 5-10 dB above RBL (see Table 7-1).

The predicted construction noise impacts in this summary are presented for the residential receivers in each NCA that have the potential to be the most affected by construction noise from the proposal. Receivers which are further away from the work and/or shielded from view would likely experience lower noise levels and impacts.

The assessment is generally considered conservative as the calculations assume several items of construction equipment are in use at the same time within individual scenarios. In reality, there would frequently be periods when construction noise levels are much lower than the worst-case levels predicted as well as times when no equipment is in use and no noise impacts occur.

5.1 Overview of construction noise impacts at residential receivers

A summary of the predicted construction noise impacts in each NCA for residential receivers is shown in Table 5-2 for Stage 2A and Table 5-3 for Stage 2B.

Detailed noise level predictions and summaries of the number of receivers predicted to have ‘noticeable’, ‘clearly audible’, ‘moderately intrusive’ and ‘highly intrusive’ impacts in each NCA are provided in Appendix C.

Table 5-2: Stage 2A predicted worst-case construction noise exceedances – residential receivers

Period	ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
Day		NML	46	46	68	55	51	55	55	46	62	46	62	47	47	62	47
	W.02	Establishment Works - Peak	●	●	·	·	■	■	◆	■	■	■	·	■	●	●	·
	W.03	Establishment Works - Typical	·	·	·	·	◆	●	·	■	●	◆	·	●	·	·	·
	W.04	Earthworks/Drainage - Peak	●	●	·	·	■	◆	●	■	■	■	·	■	●	●	·
	W.05	Earthworks/Drainage - Typical	·	·	·	·	■	●	·	■	◆	◆	·	◆	·	·	·
	W.06	Bridge Construction - Peak	·	·	·	·	●	◆	●	◆	·	●	·	·	·	·	·
	W.07	Bridge Construction - Typical	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
	W.08	Road Works - Peak	·	●	·	·	◆	◆	●	■	·	■	·	■	·	●	·
	W.09	Road Works - Typical	·	·	·	·	●	●	·	■	·	◆	·	◆	·	·	·
	W.12	Landscaping and Finishing Works - Typical	·	●	·	·	■	◆	●	■	◆	■	·	■	·	●	·
	W.13	Compound - General Operation	·	●	·	·	◆	●	·	◆	·	●	·	●	·	●	·
Evening		NML	41	41	52	50	46	50	50	41	53	41	53	39	39	53	39
	W.01	Early Works - Existing Bridge Only	·	·	·	·	♦	♦	♦	·	·	·	·	·	·	·	·
	W.10	OOH Road Works - Tie-ins - Peak	●	●	●	♦	■	◆	●	◆	■	■	♦	■	♦	●	●
	W.11	OOH Road Works - Tie-Ins - Typical	·	·	·	·	■	●	·	●	◆	■	·	■	·	·	·
	W.13	Compound - General Operation	·	●	·	·	◆	●	♦	◆	·	●	·	●	·	·	●
Night		NML	35	35	37	36	36	36	36	35	44	35	44	35	35	44	35
	W.01	Early Works - Existing Bridge Only	·	·	·	·	●	◆	◆	♦	·	·	·	·	·	·	·
	W.10	OOH Road Works - Tie-ins - Peak	●	◆	■	◆	■	■	◆	■	■	■	●	■	●	·	♦
	W.11	OOH Road Works - Tie-Ins - Typical	·	♦	●	♦	■	◆	●	●	■	■	·	■	·	·	·
	W.13	Compound - General Operation	♦	●	●	♦	■	◆	●	■	·	◆	·	◆	·	·	·
Key to Impacts (see Table 5-1)			♦ Noticeable				● Clearly Audible				◆ Moderately Intrusive			■ Highly Intrusive			

Table 5-3: Stage 2B predicted worst-case construction noise exceedances – residential receivers

Period	ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
Day		NML	46	46	68	55	51	55	55	46	62	46	62	47	47	62	47
	W.02	Establishment Works - Peak	·	·	·	·	·	·	·	◆	·	■	·	■	■	·	·
	W.03	Establishment Works - Typical	·	·	·	·	●	·	·	●	·	●	·	◆	◆	·	·
	W.04	Earthworks/Drainage - Peak	■	◆	◆	●	◆	●	·	◆	·	■	·	■	■	·	·
	W.05	Earthworks/Drainage - Typical	◆	·	●	·	●	·	·	·	·	●	·	■	◆	·	·
	W.08	Road Works - Peak	·	·	·	·	·	·	·	◆	·	■	·	■	◆	·	·
	W.09	Road Works - Typical	·	·	·	·	·	·	·	·	·	●	·	◆	·	·	·
	W.12	Landscaping and Finishing Works - Typical	■	●	●	·	●	·	·	◆	·	◆	·	■	■	·	·
	W.13	Compound - General Operation	·	●	·	·	●	·	·	●	·	●	·	●	·	·	·
Evening		NML	41	41	52	50	46	50	50	41	53	41	53	39	39	53	39
	W.10	OOH Road Works - Tie-ins - Peak	■	◆	■	●	◆	●	·	·	·	◆	·	■	■	·	♦
	W.11	OOH Road Works - Tie-Ins - Typical	◆	♦	◆	·	●	·	·	·	·	♦	·	■	◆	·	·
	W.13	Compound - General Operation	·	●	·	·	●	·	·	●	·	●	·	●	·	·	·
Night		NML	35	35	37	36	36	36	36	35	44	35	44	35	35	44	35
	W.10	OOH Road Works - Tie-ins - Peak	■	◆	■	■	■	■	●	●	·	◆	♦	■	■	♦	●
	W.11	OOH Road Works - Tie-Ins - Typical	◆	●	■	●	◆	●	·	·	·	●	·	■	■	·	·
	W.13	Compound - General Operation	♦	●	●	♦	◆	●	·	◆	·	◆	·	◆	·	·	·
Key to Impacts (see Table 5-1)			♦ Noticeable				● Clearly Audible				◆ Moderately Intrusive			■ Highly Intrusive			

The above assessment for the most affected residential receiver in each NCA during the worst-case impacts for Stage 2A and Stage 2B is summarised below. The predicted construction noise levels and impacts for Stage 2A and Stage 2B are discussed individually in Section 5.2 and Section 5.3, respectively.

- The works areas are close to residential receivers on Bells Line of Road (in NCA01, NCA02, NCA03, NCA05, NCA06 and NCA07), Southee Road (in NCA12), Inalls Lane (in NCA08 and NCA10), Kurrajong Road (in NCA09) which result in 'highly intrusive' to 'moderately intrusive' noise levels and impacts at the nearest receivers. The highest noise levels and impacts would be experienced by adjacent receivers when noisy construction work is nearby. Where receivers are further away, or when less noise intensive work is being completed, the predicted noise impacts are correspondingly lower.
- The highest impacts for are expected to occur when noise intensive equipment is being used such as chainsaws, chippers or concrete saws. Activities that include these sources are 'W.02 – Establishment Works – Peak', 'W.08 – Road Works – Peak' and 'W.10 – OOH Road Works – Tie-ins'. These items of equipment would only, be required occasionally and would be unlikely to be in use for long periods of time.
- The impacts during the daytime are predicted to be 'highly intrusive' at the nearest receivers in several NCAs during the 'peak' work scenarios. During 'typical' work, impacts would be reduced to be 'moderately intrusive' or 'clearly audible', except for those receivers that are directly adjacent to the work area which have the potential to remain 'highly intrusive' during noisy work.
- During the night-time, 'Highly Intrusive' noise impacts are predicted at the nearest receivers when nearby noisy work is being completed during the following scenarios:
  - 'W.10 – OOH Road Works – Tie-ins- Peak'
  - 'W.11 – OOH Road Works – Tie-ins -Typical'
  - 'W.13 – Compounds – General Operations'.
- The worst-case night-time noise levels are predicted to be around 85 dB at the nearest receivers in NCA03, NCA05, NCA09, NCA10 and NCA12 (see Appendix C) when noise intensive equipment is being used as part of 'W.10 – OOH Road Works – Tie-ins- Peak'. When noise intensive equipment is not being used during this scenario the noise levels are expected to be substantially lower, with worst-case levels around 75 dBA predicted during 'W.11 – OOH Road Works – Tie-ins- Typical'. Typical night-time noise levels at receivers which are more distant from the work areas, and/or several rows back are generally 50 dBA or lower.
- The worst-case night-time impacts at receivers which are more distant from the work areas, and/or several rows back, are generally predicted to be 'Moderately Intrusive' during noisy work and 'Clearly Audible' or 'Noticeable' during less noise generating activities.
- It is noted that for most scenarios, the noisiest work would only be required for a relatively short period of the total proposal duration. Noise levels and impacts at other times would be much lower than the worst-case levels predicted, and there would often be times when noise levels are low and no impacts are occur.
- The worst-case predicted noise levels are likely to be Highly Noise Affected (ie ≥75 dBA) at the nearest residential receivers to the intersection of Southee Road and Castlereagh Road (in NCA 12), Inalls Lane (in NCA08 and NCA10), Bells Line of Road (in NCA01, NCA03, NCA05 and NCA06) and Kurrajong Road (in NCA09) when noisy work, such as work involving a concrete saw, is being completed nearby. Noise levels are also predicted to be Highly Noise Affected at the nearest residential receivers to the construction compound at North Richmond Park (in NCA05) during noise intensive earthworks.

The predicted construction noise levels and impacts from each work scenario are tabulated in Appendix C for each NCA. The following sections provide a detailed discussion of the construction impacts from some of the key construction scenarios.

5.2 Stage 2A detailed construction noise impacts

5.2.1 Daytime scenarios

The highest daytime construction noise impacts are predicted during 'W.04 – Earthworks/Drainage- Peak' when noise intensive equipment such as a chain saw is in use. The predicted daytime noise impacts during this work are shown in:

- Figure 5-1 – 'W.04 – Earthworks/Drainage – Peak', when noise intensive equipment such as a dozer is in use.

- Figure 5-2 – 'W.05 – Earthworks/ Drainage – Typical', which does not include noise intensive equipment.

'Earthwork/ Drainage' has been assumed to occur anywhere within the study area that is not on an existing road.

It is noted that the figures show the impacts assuming work is being completed in all locations at the same time. In reality, for most scenarios, work would occur in one area before moving to the next location which would limit the impacts to the surrounding receivers.

Figure 5-1: Stage 2A predicted impacts during '*W.04 – Earthworks/Drainage – Peak*' (Daytime)

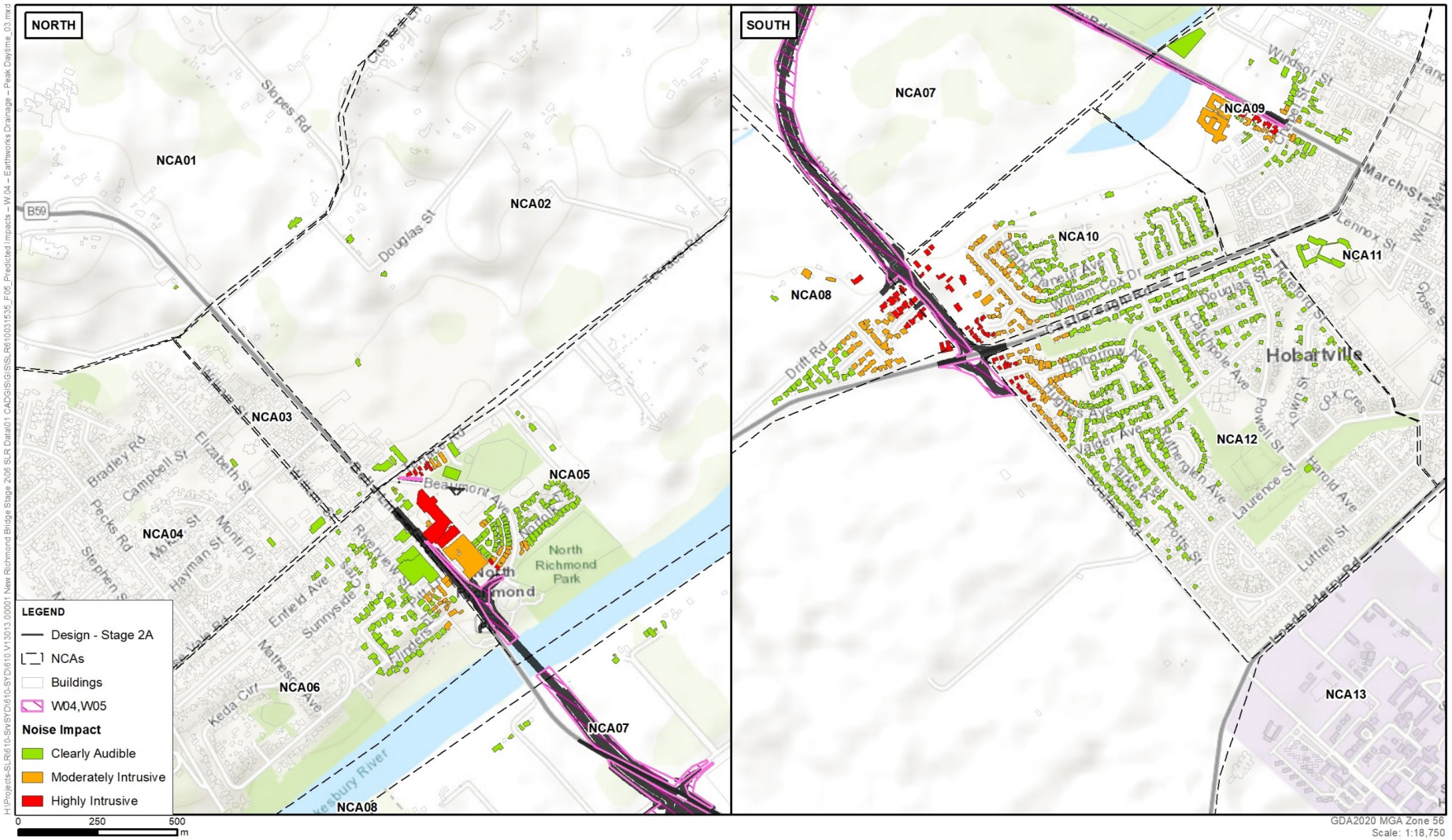


Figure 5-2: Stage 2A predicted impacts during '*W.05 – Earthworks/Drainage – Typical*' (Daytime)



The above figures show that front-row residential receivers are predicted to have 'highly intrusive' worst-case daytime impacts when noise intensive work is being completed nearby as part of 'W.04 – Earthworks/drainage – peak'. Residential receivers on the rows further back are predicted to experience much lower worst-case daytime noise levels that generally range from 'moderately intrusive' to compliant with the NMLs.

When noise intensive equipment is not in use as part of 'W.05 – Earthworks/drainage – typical', the worst-case noise impacts are substantially reduced. Front-row residential receivers in this scenario are predicted to experience 'moderately intrusive' impacts when work is nearby with a small number of select receivers experiencing 'highly intrusive' impacts due to the proximity of the works. Residential receivers on the second-row and beyond are generally predicted to experience noise levels that are 'clearly audible' or complaint with the NMLs.

The impacts presented above are based on all equipment working simultaneously in each assessed scenario. There would frequently be periods when construction noise levels are much lower than the worst-case levels predicted and there would be times when no equipment is in use and no impacts occur.

5.2.2 Night-time scenarios

Certain construction activities that may result in traffic restrictions are likely to be carried out during the night-time to minimise disruption to traffic and provide a safer working environment for construction workers. Noise intensive equipment such as concrete saws may be required at times during out of hours work.

The highest night-time construction noise impacts are predicted during 'W.10 – OOH Road Works - Tie-ins - peak' when noise intensive equipment such as a concrete saw is in use. The predicted night-time impacts during this work are shown in:

- Figure 5-3 – 'W.10 – OOH Road works – Tie-ins – Peak', when noise intensive equipment such as a concrete saw is being used.
- Figure 5-4 – 'W.11 – OOH Road Works – Tie-ins – Typical', which does not generally require noise intensive equipment.

Out-of-hours work would likely be required at some of the compounds to support out of hours work. The predicted noise levels during 'W.13 – Compound – General Operations' are shown in Figure 5-5 to show the impacts from one of the lower noise generating scenarios.

It is noted that the figures show the impacts assuming work is being completed in all locations at the same time. In reality, for most scenarios, work would occur in one area before moving to the next location which would limit the impacts to the surrounding receivers.

Figure 5-3: Stage 2A predicted impacts during '*W.10 – Road works – tie-ins OOH – Peak*' (Night)



Figure 5-4: Stage 2A predicted impacts during '*W.11 – Road works – tie-ins OOH – Typical*' (Night)



Figure 5-5: Stage 2A predicted impacts during '*W.13 – Compounds – General Operations*' (Night-time)



The above figures show that the predicted noise impacts during night-time work are more widespread than the daytime scenarios, which is due to lower NMLs during this period.

Residential receivers near to the work are predicted to have 'highly intrusive' worst-case night-time impacts when noise intensive work is being completed nearby as part of 'W.10 – Road works – OOH tie-ins – peak', with more distant receivers generally having 'moderately intrusive' or 'clearly audible' worst-case impacts. Note that Figure 5-3 shows the predicted noise impacts in the most densely populated parts of the study area in North Richmond, Hobartville and Richmond. The extent of all more distant predicted impacts for this scenario are shown in Appendix C.

When noise intensive equipment is not in use as part of 'W.11 – Road works – OOH tie-ins – typical', the worst-case noise impacts are substantially reduced, however, the front-row receivers are predicted to still experience 'highly intrusive' worst-case night-time noise levels.

The predicted night-time noise impacts during 'W.13 – Compounds – general operations' are reduced relative to other scenarios required across the entire study area. Residential receivers surrounding the compounds are, however, predicted to be impacted during noisy work, although the frequency of this type of work is expected to be relatively low.

The impacts presented above are based on all equipment working simultaneously in each assessed scenario. There would frequently be periods when construction noise levels are much lower than the worst-case levels predicted and there would be times when no equipment is in use and no impacts occur.

The requirements for night-time work would be confirmed as the proposal progresses. Construction mitigation and management measures are discussed further in Section 7.1.

5.2.3 Highly noise affected residential receivers

Residential receivers that are subject to noise levels of 75 dBA or greater are considered Highly Noise Affected by the ICNG. Receivers can be Highly Noise Affected when noisy work occurs close to residents.

The number of residential receivers which could potentially be Highly Noise Affected during the worst-case impacts from the Stage 2A are summarised in Table 5-4 and shown in Figure 5-6. The predictions assume the individual scenarios are occurring at all locations across the study area.

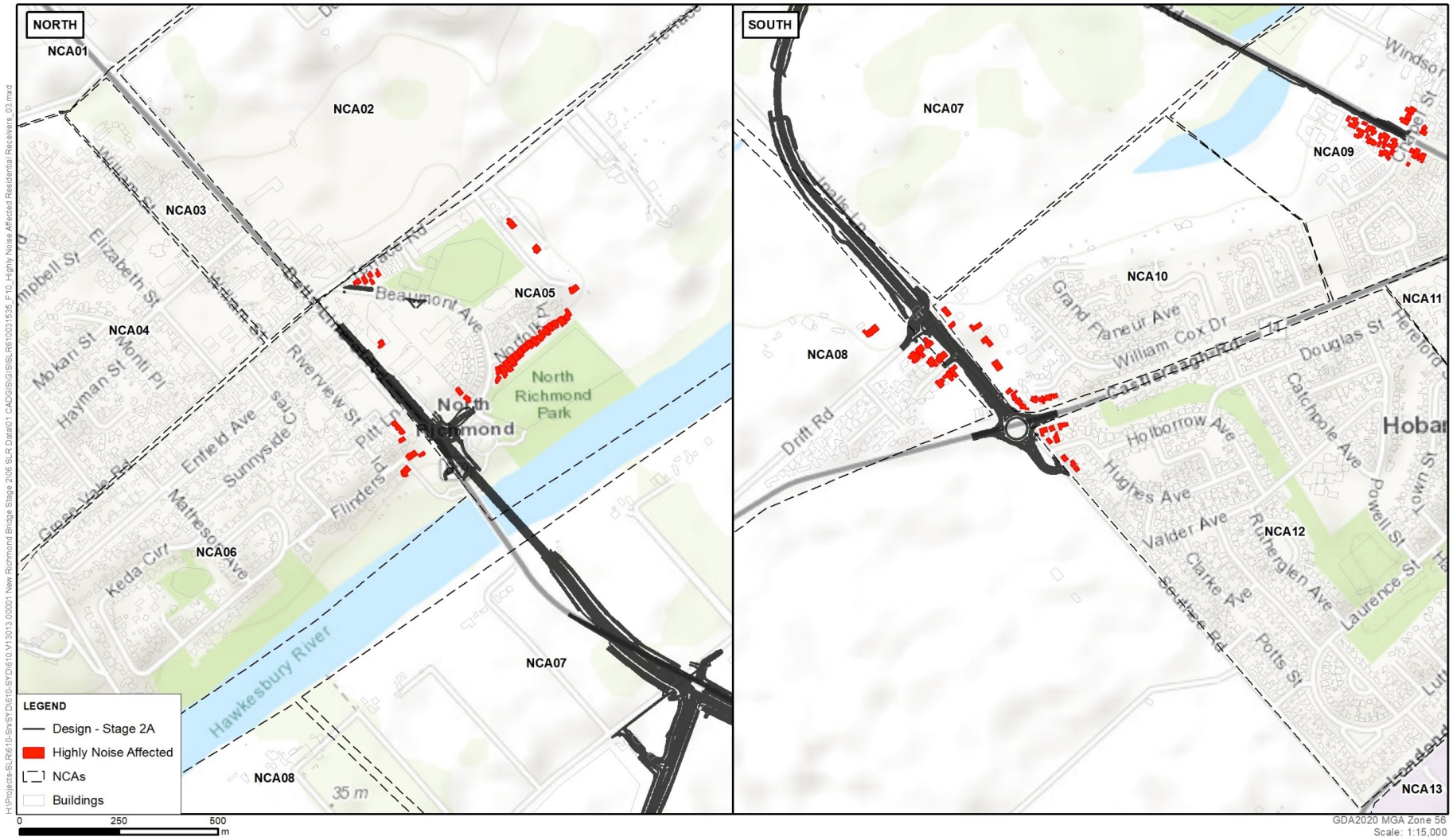
Some front-row residential receivers near to the intersection of Southee Road and Castlereagh Road (in NCA 12), Inalls Lane (in NCA 10 and NCA08), Bells Line of Road (in NCA05 and NCA06) and Kurrajong Road (in NCA09) are predicted to be Highly Noise Affected when Stage 2A noise intensive work is being carried out nearby. The nearest residential receivers to the construction compound at North Richmond Park (in NCA05) are also predicted to be Highly Noise Affected during noise intensive earthworks.

The highest noise levels would only likely be apparent for relatively short periods. When work is being completed in other more distant parts of the study area (ie further from an induvial receiver), the noise levels would be correspondingly lower.

Table 5-4: Stage 2A predicted number of highly noise affected residential receivers

ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
W.01	Early Works - Existing Bridge Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment works - Peak	-	-	-	-	22	5	-	9	22	9	-	6	1	-	-
W.03	Establishment works - typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	-	-	-	-	5	-	-	4	13	6	-	1	1	-	-
W.05	Earthworks/Drainage - Typical	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road works - Peak	-	-	-	-	-	-	-	4	-	5	-	1	-	-	-
W.09	Road Works - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	Road Works - Tie-ins OOH - Peak	-	-	-	-	6	-	-	-	9	6	-	3	1	-	-
W.11	Road Works - Tie-Ins OOH - Typical	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing works - Typical	-	-	-	-	3	-	-	-	2	-	-	-	-	-	-
W.13	Compound - General Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Figure 5-6: Stage 2A highly noise affected residential receivers (from any works scenario)



5.2.4 Commercial/industrial and 'other sensitive' receivers

A summary of the Stage 2A predicted construction noise impacts in for commercial/industrial and 'other sensitive' receivers is presented in Table 5-5.

Table 5-5: Stage 2A overview of commercial/industrial and 'other sensitive' receiver NML exceedances

ID	Scenario	Number of Receiver Buildings Affected																	
		Commercial / Industrial			Educational			Medical			Place of Worship			Childcare			Other[1]		
		1-10 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB	>20 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB
W.01	Early Works - Existing Bridge Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	5	6	3	2	-	-	1	1	-	2	1	1	4	1	-	4	1	-
W.03	Establishment Works - Typical	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	11	4	2	2	-	-	2	-	-	3	-	1	4	-	-	5	1	-
W.05	Earthworks/Drainage - Typical	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	4	4	1	-	-	-	1	-	-	-	-	1	2	-	-	-	-	-
W.09	Road Works - Typical	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
W.10	Road Works - Tie-ins OOH - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.11	Road Works - Tie-Ins OOH - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	14	-	-	-	-	-	-	-	-	1	1	-	1	-	-	1	-	-
W.13	Compound - General Operation	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Key to Impacts		Clearly Audible						Moderately Intrusive						Highly Intrusive					

Note 1: Other includes hotels, public buildings and outdoor areas.

The assessment of receivers shows that certain commercial/industrial and 'other sensitive' receivers are predicted to be impacted during all Stage 2A work scenarios. 'Highly intrusive' or 'moderately intrusive' worst-case impacts are predicted at the nearest 'other sensitive' and commercial receivers when noisy work is nearby, including:

- Various commercial buildings on Bells Line of Road
- The church of Jesus Christ of Latter Day Saints
- St Peters Anglican Church
- Hawkesbury Dentistry
- Community Kids, North Richmond Early Learning Centre

The worst-case impacts are predicted based on the work occurring at the closest point to each 'other sensitive' receiver. This would only occur for a short time at each receiver as work would progressively move along the alignment.

5.2.5 Sleep disturbance

A sleep disturbance screening assessment has been undertaken for the construction work and a summary is tabulated in Appendix C.

The predictions shows that the sleep disturbance screening criteria are likely to be exceeded when night work occurs near residential receivers. The receivers which would potentially be affected by sleep disturbance impacts are generally the same receivers where 'moderately intrusive' and 'highly intrusive' night-time impacts have been predicted (see Figure 5-3 to Figure 5-5 in Section 5.2.2).

The requirements for night-time work would be confirmed as the proposal progresses. Construction mitigation and management measures are discussed further in Section 7.1.

5.3 Stage 2B detailed construction noise impacts

5.3.1 Overview of construction noise impacts at residential receivers

5.3.2 Daytime scenarios

The Stage 2B highest daytime construction noise impacts are predicted during 'W.04 – Earthworks/Drainage- Peak' when noise intensive equipment such as a chain saw is in use. The predicted daytime noise impacts during this work are shown in:

- Figure 5-7 – 'W.04 – Earthworks/Drainage – Peak', when noise intensive equipment such as a dozer is in use.
- Figure 5-8 – 'W.05 – Earthworks/ Drainage – Typical', which does not include noise intensive equipment.

'Earthwork/ Drainage' has been assumed to occur anywhere within the study area that is not on an existing road.

It is noted that the figures show the impacts assuming work is being completed in all locations at the same time. In reality, for most scenarios, work would occur in one area before moving to the next location which would limit the impacts to the surrounding receivers.

Figure 5-7: Stage 2B predicted impacts during '*W.04 – Earthworks/Drainage – Peak*' (Daytime)



Figure 5-8: Stage 2B predicted impacts during '*W.05 – Earthworks/Drainage – Typical*' (Daytime)



The above figures show that front-row residential receivers are predicted to have 'highly intrusive' worst-case daytime impacts when noise intensive work is being completed nearby as part of 'W.04 – Earthworks/drainage – peak'. Residential receivers on the rows further back are predicted to experience much lower worst-case daytime noise levels that generally range from 'moderately intrusive' to compliant with the NMLs.

When noise intensive equipment is not in use as part of 'W.05 – Earthworks/drainage – typical', the worst-case noise impacts are substantially reduced. Front-row residential receivers in this scenario are predicted to experience 'moderately intrusive' impacts when work is nearby with a small number of select receivers experiencing 'highly intrusive' impacts due to the proximity of the works. Residential receivers on the second-row and beyond are generally predicted to experience noise levels that are 'clearly audible' or complaint with the NMLs.

The impacts presented above are based on all equipment working simultaneously in each assessed scenario. There would frequently be periods when construction noise levels are much lower than the worst-case levels predicted and there would be times when no equipment is in use and no impacts occur.

5.3.3 Night-time scenarios

Certain construction activities that may result in traffic restrictions are likely to be carried out during the night-time to minimise disruption to traffic and provide a safer working environment for construction workers. Noise intensive equipment such as concrete saws may be required at times during out of hours work.

The Stage 2B highest night-time construction noise impacts are predicted during 'W.10 – OOH Road Works - Tie-ins - peak' when noise intensive equipment such as a concrete saw is in use. The predicted night-time impacts during this work are shown in:

- Figure 5-9 – 'W.10 – OOH Road works – Tie-ins – Peak', when noise intensive equipment such as a concrete saw is being used.
- Figure 5-10 – 'W.11 – OOH Road Works – Tie-ins – Typical', which does not generally require noise intensive equipment.

Out-of-hours work would likely be required at some of the compounds to support out of hours work. The predicted noise levels during 'W.13 – Compound – General Operations' are shown in Figure 5-11 to show the impacts from one of the lower noise generating scenarios.

It is noted that the figures show the impacts assuming work is being completed in all locations at the same time. In reality, for most scenarios, work would occur in one area before moving to the next location which would limit the impacts to the surrounding receivers.

Figure 5-9: Stage 2B predicted impacts during '*W.10 – Road works – tie-ins OOH – Peak*' (Night)



Figure 5-10: Stage 2B predicted Impacts during '*W.11 – Road works – tie-ins OOH – Typical'* (Night)

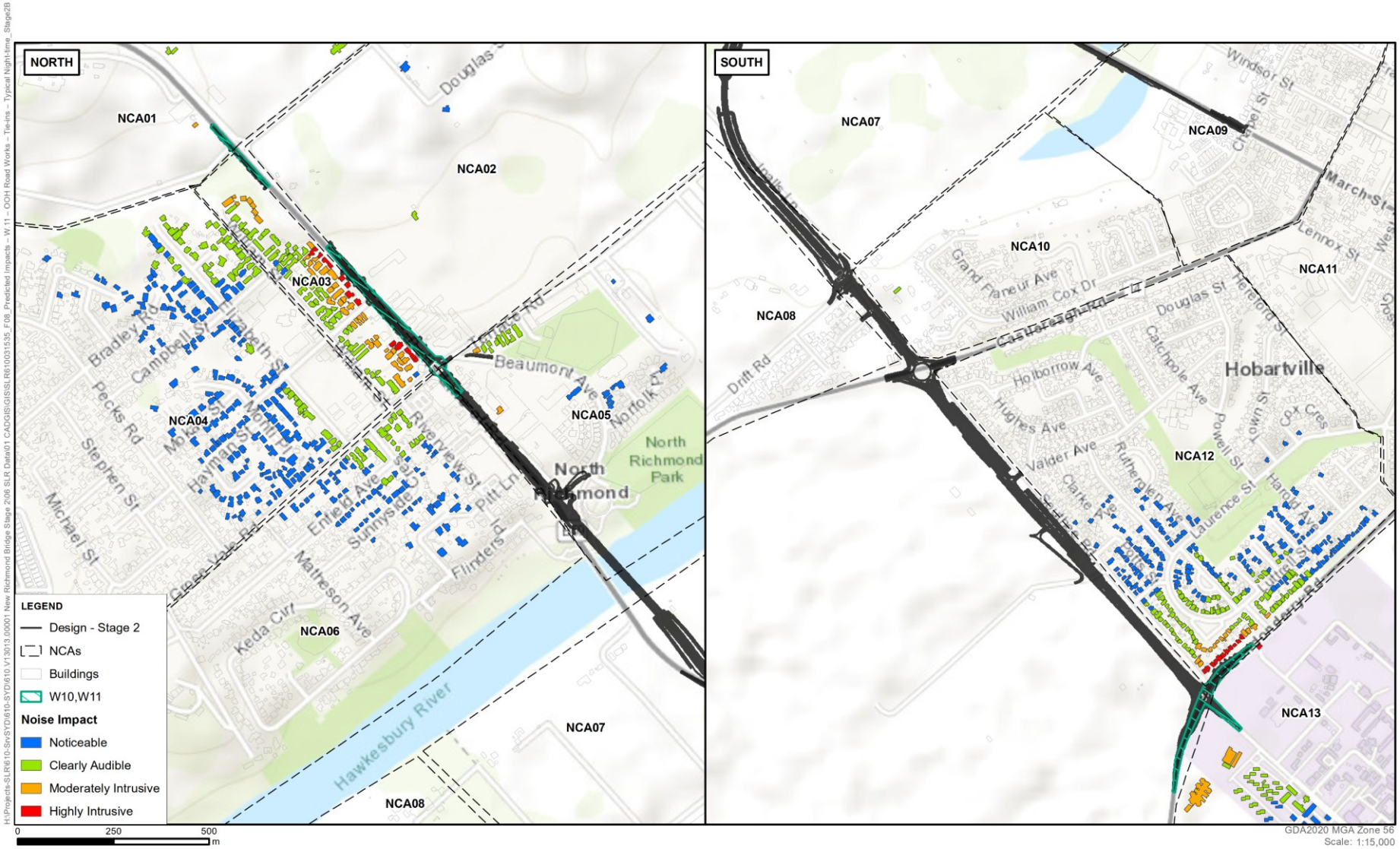


Figure 5-11: Stage 2B predicted Impacts during '*W.13 – Compounds – General Operations*' (Night-time)



The above figures show that the predicted noise impacts during night-time work are more widespread than the daytime scenarios, which is due to lower NMLs during this period.

Residential receivers near to the work are predicted to have 'highly intrusive' worst-case night-time impacts when noise intensive work is being completed nearby as part of 'W.10 – Road works – OOH tie-ins – peak', with more distant receivers generally having 'moderately intrusive' or 'clearly audible' worst-case impacts. Note that Figure 5-9 shows the predicted noise impacts in the most densely populated parts of the study area in North Richmond, Hobartville and Richmond. The extent of all more distant predicted impacts for this scenario are shown in Appendix C.

When noise intensive equipment is not in use as part of 'W.11 – Road works – OOH tie-ins – typical', the worst-case noise impacts are substantially reduced, however, the front-row receivers are predicted to still experience 'highly intrusive' worst-case night-time noise levels.

The predicted night-time noise impacts during 'W.13 – Compounds – general operations' are reduced relative to other scenarios required across the entire study area. Residential receivers surrounding the compounds are, however, predicted to be impacted during noisy work, although the frequency of this type of work is expected to be relatively low.

The impacts presented above are based on all equipment working simultaneously in each assessed scenario. There would frequently be periods when construction noise levels are much lower than the worst-case levels predicted and there would be times when no equipment is in use and no impacts occur.

The requirements for night-time work would be confirmed as the proposal progresses. Construction mitigation and management measures are discussed further in Section 7.1.

5.3.4 Highly noise affected residential receivers

Residential receivers that are subject to noise levels of 75 dBA or greater are considered Highly Noise Affected by the ICNG. Receivers can be Highly Noise Affected when noisy work occurs close to residents.

The number of residential receivers which could potentially be Highly Noise Affected during the worst-case impacts from the Stage 2B are summarised in Table 5-4 and shown in Figure 5-6. The predictions assume the individual scenarios are occurring at all locations across the study area.

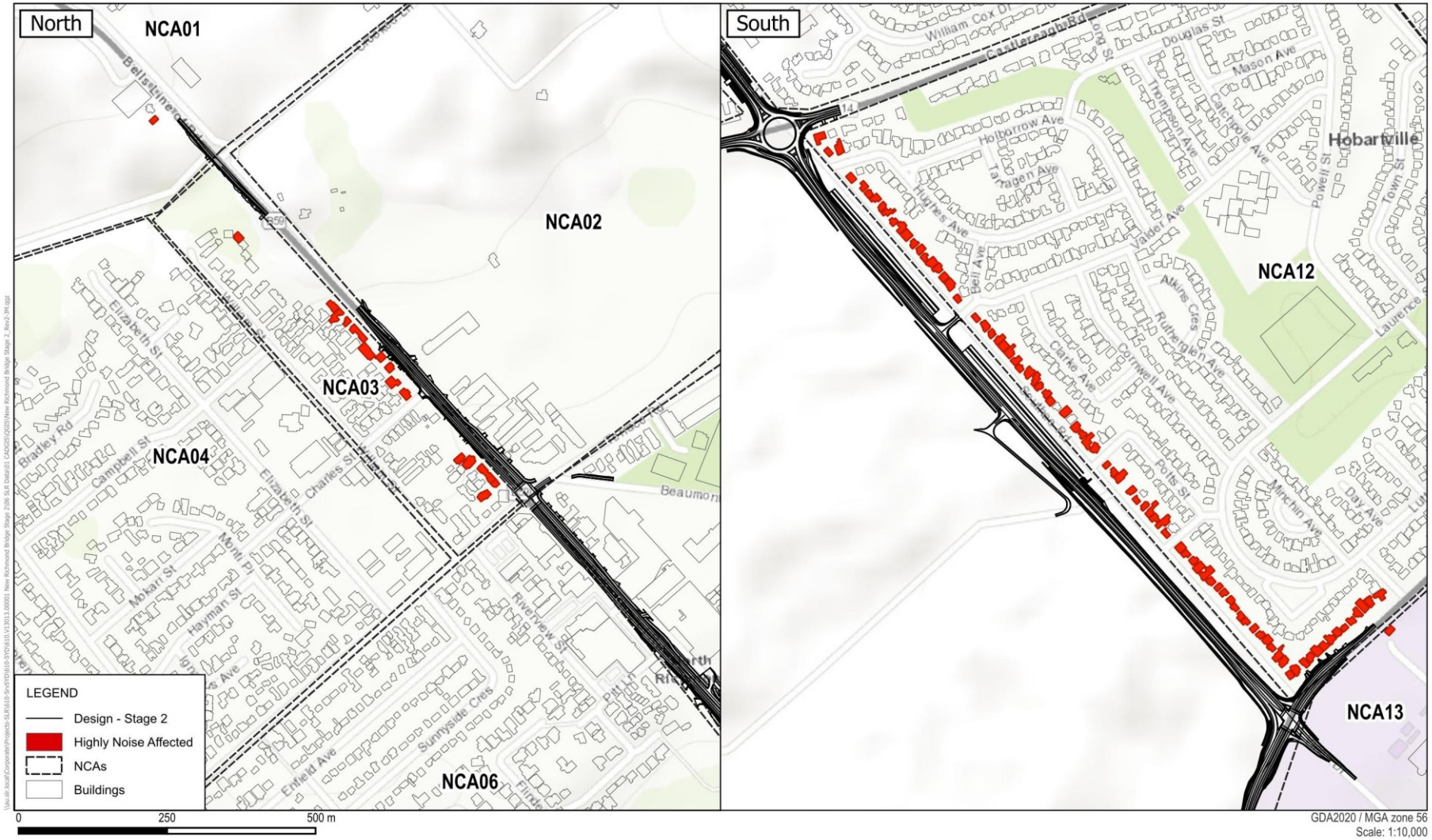
Front-row residential receivers on Southee Road (in NCA 12) and Bells Line of Road (in NCA01 and NCA03) are predicted to be Highly Noise Affected when Stage 2B noise intensive work is being carried out nearby.

The highest noise levels would only likely be apparent for relatively short periods. When work is being completed in other more distant parts of the study area (ie further from an induvial receiver), the noise levels would be correspondingly lower.

Table 5-6: Stage 2B predicted number of highly noise affected residential receivers

ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
W.01	Early Works - Existing Bridge Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment works - Peak	-	-	-	-	-	-	-	-	-	-	-	80	1	-	-
W.03	Establishment works - typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	1	-	14	-	-	-	-	-	-	-	-	21	1	-	-
W.05	Earthworks/Drainage - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road works - Peak	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
W.09	Road Works - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	Road Works - Tie-ins OOH - Peak	-	-	14	-	-	-	-	-	-	-	-	11	1	-	-
W.11	Road Works - Tie-Ins OOH - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing works - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Figure 5-12: Stage 2B highly noise affected residential receivers (from any works scenario)



5.3.5 Commercial/industrial and 'other sensitive' receivers

A summary of the Stage 2B predicted construction noise impacts in for commercial/industrial and 'other sensitive' receivers is presented in Table 5-5.

Table 5-7: Stage 2B overview of commercial/industrial and 'other sensitive' receiver NML exceedances

ID	Scenario	Number of Receiver Buildings Affected																	
		Commercial / Industrial			Educational			Medical			Place of Worship			Childcare			Other		
		1-10 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB	>20 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB	1-10 dB	11-20 dB	>20 dB
W.02	Establishment Works - Peak	-	-	-	39	1	-	-	-	-	-	1	-	-	1	-	2	-	-
W.03	Establishment Works - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	11	7	3	30	-	-	1	1	-	1	2	-	1	3	-	3	-	-
W.05	Earthworks/Drainage - Typical	5	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-
W.09	Road Works - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	Road Works - Tie-ins OOH - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.11	Road Works - Tie-Ins OOH - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	15	-	-	-	-	-	1	-	-	2	1	-	2	-	-	-	-	-
W.13	Compound - General Operation	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Key to Impacts		Clearly Audible						Moderately Intrusive						Highly Intrusive					

Note 1: Other includes public buildings and outdoor areas.

The assessment of receivers shows that certain commercial/industrial and 'other sensitive' receivers are predicted to be impacted during all Stage 2B work scenarios. 'Highly intrusive' or 'moderately intrusive' worst-case impacts are predicted at the nearest 'other sensitive' and commercial receivers when noisy work is nearby, including:

- Various commercial buildings on Bells Line of Road
- Elizabeth Street Extended Hours Preschool
- Caring 4 Kids – Child Care North Richmond
- Riverlands Dental
- Community Kids, North Richmond Early Education Centre
- The church of Jesus Christ of Latter Day Saints
- St Phillips Public Cemetery (currently closed)
- Western Sydney University.

The worst-case impacts are predicted based on the work occurring at the closest point to each 'other sensitive' receiver. This would only occur for a short time at each receiver as work would progressively move along the alignment.

5.3.6 Sleep disturbance

A sleep disturbance screening assessment has been undertaken for the construction work and a summary is tabulated in Appendix C.

The predictions shows that the sleep disturbance screening criterion is likely to be exceeded when night work occurs near residential receivers. The receivers which would potentially be affected by sleep disturbance impacts are generally the same receivers where 'moderately intrusive' and 'highly intrusive' night-time impacts have been predicted (see Figure 5-3 to Figure 5-5 in Section 5.2.2).

The requirements for night-time work would be confirmed as the proposal progresses. Construction mitigation and management measures are discussed further in Section 7.1.

5.4 Construction vibration assessment

Vibration offset distances for the vibration intensive equipment required to complete the work have been determined from the CNVG-R minimum working distances for cosmetic damage and human response (see Table 3-10). Buildings within the minimum working distances have been determined and the assessment is summarised in Figure 5-13 for Stage 2A and Figure 5-14 for Stage 2B.

Figure 5-13: Stage 2A construction vibration assessment

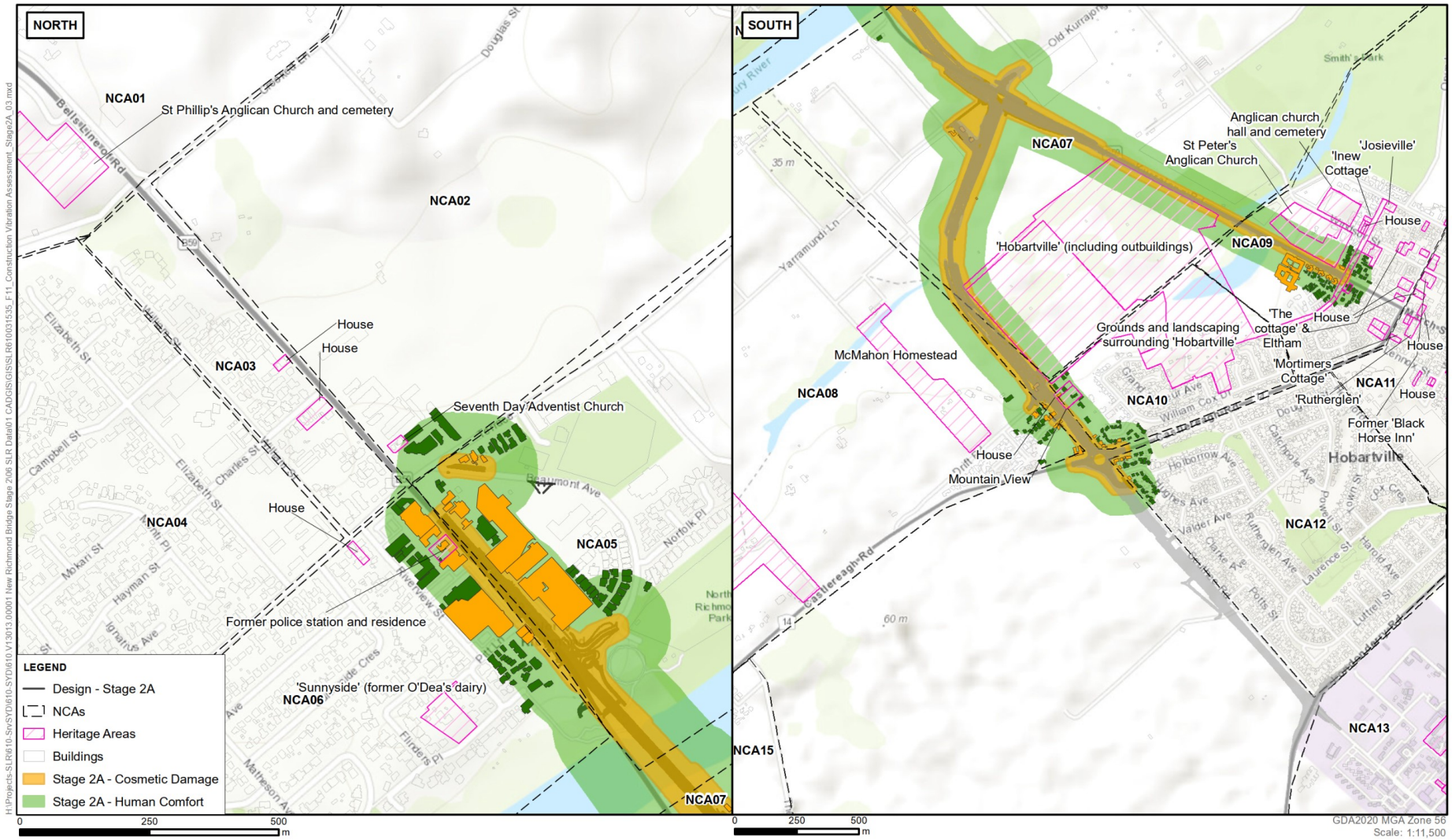
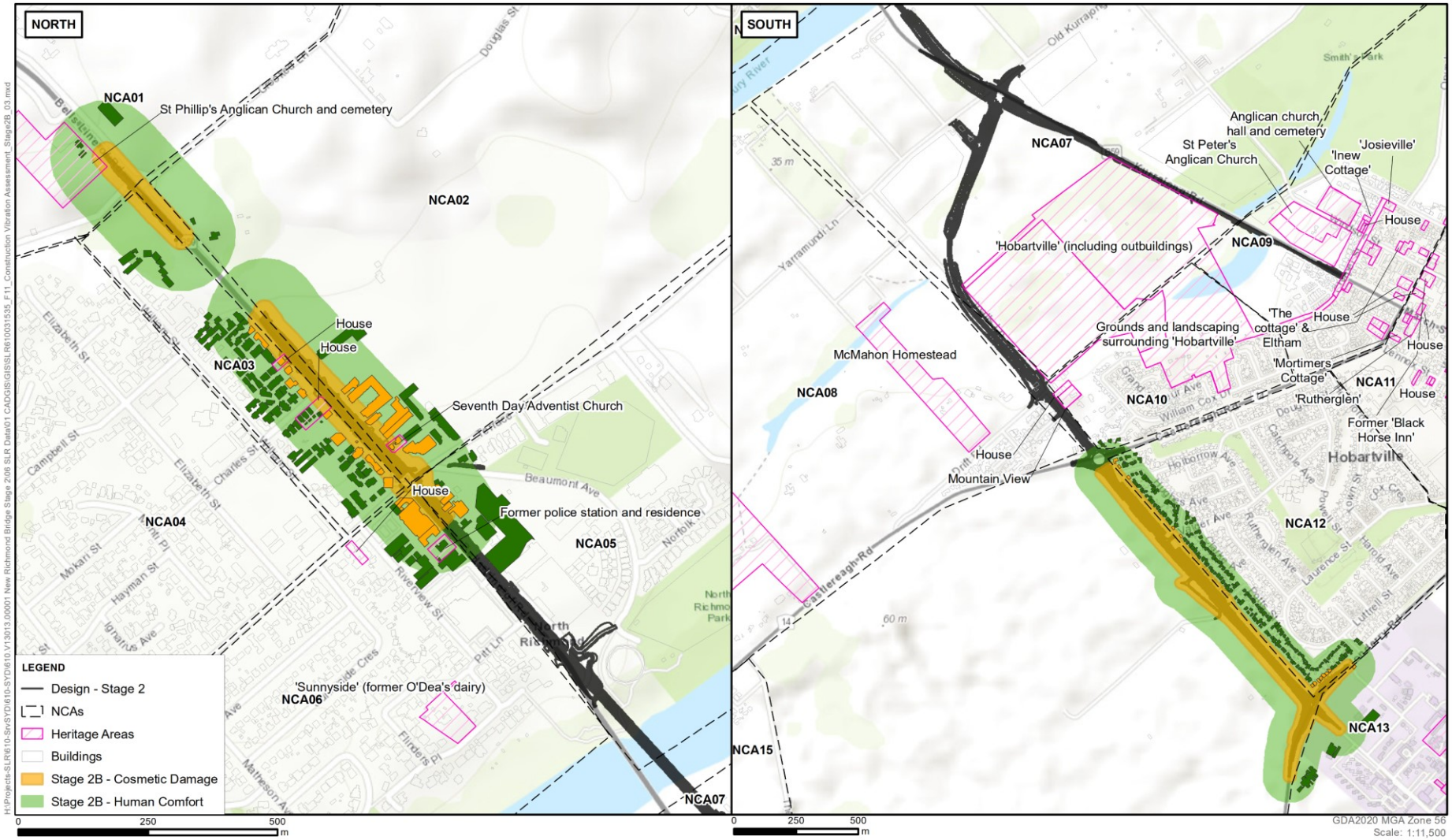


Figure 5-14: Stage 2B construction vibration assessment



Cosmetic damage assessment

The assessment shows that some front-row receivers near to Bells Line of Road, Kurrajong Road, Inalls Lane, Londonderry Road and Castlereagh Road are likely to be within the minimum working distance for cosmetic damage (ie 20 m for a 13-18 tonne vibratory roller) and mitigation is required to be considered. Buildings in other parts of the study area are generally sufficiently distant to be outside the minimum distance.

Construction mitigation and management measures are discussed in Section 7.1.

Human comfort vibration assessment

Certain receivers in the study area are also within the human comfort minimum working distance (ie 100 m for a 13-18 tonne vibratory roller) and occupants of affected buildings may be able to perceive vibration impacts at times when vibration intensive equipment is in use. Where impacts are perceptible, they would likely only be apparent for relatively short durations when vibration intensive equipment is nearby.

Construction mitigation and management measures are discussed further in Section 7.1.

Heritage structures

Several heritage items or areas may be within the recommended minimum working distance for cosmetic damage. All heritage items within 100 m of the proposed vibration intensive work are summarised in Table 5-8.

Table 5-8: Heritage items near to vibration intensive work

Item name	Address	Heritage significance	Listing number (State Heritage Register / Local Environmental Plan)	Distance to nearest building[1]
Stage 2A				
Former police station and residence	39 Bells Line of Road, North Richmond	Local	I406	10 m
Former house	190 March Street, Richmond	Local	I72	30 m
Mountain View	22 Inalls Lane, Richmond	State / Local	00044 / I00044	50 m
House	32 Inalls Lane, Richmond	Local	I41	10 m
Stage 2B				
St Philip's Anglican Church and cemetery	151 Bells Line of Road, North Richmond	Local	I408	30 m
House	101A Bells Line of Road, North Richmond	Local	I493	10 m
House	91 Bells Line of Road, North Richmond	Local	I410	30 m
Seventh Day Adventist Church	54 Bells Line of Road, North Richmond	Local	I407	<10 m
Former police station and residence	39 Bells Line of Road, North Richmond	Local	I406	40 m

Note 1: Approximate minimum horizontal distance between the edge of the construction footprint and the nearest building within the heritage listed item.

Heritage buildings and structures should not be assumed to be more sensitive to vibration unless they are found to be structurally unsound. For structurally sound heritage items, the recommended minimum working distance for cosmetic damage is 20 m (for a 13-18 tonne vibratory roller), noting that the recommended minimum working distance is based on typical light-framed framed structures and may be overly conservative for reinforced or heavy commercial buildings.

For structurally unsound heritage items, the recommended minimum working distance is 40 m (for a 13-18 tonne vibratory roller), based on 2.5 mm/s PPV criteria for DIN4150.

Construction mitigation and management measures are discussed further in Section 7.1, and are generally summarised as:

- Review of required vibration intensive equipment and works location when detailed construction planning information is available.
- Where vibration intensive work is required within the recommended minimum working distances for cosmetic damage, investigate alternate construction methods where feasible.
- Conduct attended vibration monitoring at the start of any new vibration intensive work activity that cannot take place at a safe working distance to confirm the vibration levels produced by the equipment and site-specific propagation. Undertake further vibration predictions based on the outcomes of the attended monitoring.
- Conduct dilapidation surveys on all buildings where the cosmetic damage vibration criteria are predicted to be exceeded.

5.5 Cumulative impacts

Cumulative construction noise impacts can occur where multiple work activities are being completed near to a particular receiver at the same time. There is potential for cumulative construction impacts from multiple construction activities being completed in different areas of the proposal.

Since the construction scenarios required for various stages of the proposal would generally require similar items of equipment, concurrent construction work being completed near to a particular area could theoretically increase the worst-case noise levels in this report by around 3 dB (ie a logarithmic adding of two sources of noise at the same level).

The likelihood of worst-case noise levels being generated by two different work activities at the same time is, however, considered low and rather than increase construction noise levels, the impact of concurrent work would generally be a limited to a potential increase in the duration, and annoyance, of noise impacts on the affected receivers.

In practice, construction noise levels in any one location would vary and would be frequently much lower than the worst-case scenario assessed due to construction staging moving work around within the study area and, in many cases, only a few items of equipment being used at any one time.

Construction works associated with the New Richmond Bridge Stage 1 may occur within the same time period as Stage 2A of the proposal, however the work areas are separated by around 2500 m which means cumulative impacts are unlikely.

Construction works associated with the Richmond System Wastewater Upgrade may occur within the same time period as Stage 2A of the proposal and may contribute to cumulative impacts at some receivers to the north of Bells Line of Road in North Richmond (in NCA01, NCA02 and NCA05) and in Richmond (in NCA07) if works occur at the same time. The Richmond System Wastewater Upgrade commenced in 2023 and be completed in 2025.

No other significant construction works on other projects have been identified in the area. Given that the construction of Stage 2B of the proposal is not expected to commence until about 2037 (subject to additional funding approval), the potential for cumulative impacts should be reviewed closer to the start of construction.

5.6 Construction traffic

Construction related traffic has the potential to temporarily increase road traffic noise levels at receivers that are near to haulage routes. The traffic information that is currently available is shown in Table 5-9.

Table 5-9: Construction traffic volumes

Vehicle Type	Total Vehicle Movements per day (Average)	Vehicle Movements per day at Peak Construction Period	Average Peak Hour Movements
Stage 2A			
Construction personnel (cars and private vehicles)	200	400	90
Light construction vehicles and utes	100	120	18
Heavy vehicles and trucks	65	75	12
Stage 2B			
Construction personnel (cars and private vehicles)	160	240	72
Light construction vehicles and utes	80	100	15
Heavy vehicles and trucks	60	70	11

It is anticipated that most construction traffic would use Bells line of Road, Terrace Road, Kurrajong Road, Castlereagh Road, Londonderry Road, Inalls Lane and Southee Road. These roads currently have existing daytime (15 hour) volumes ranging from around 29,000 to 2,700 and a night-time (9 hour) volume ranging around from 4,300 to400.

For Stage 2A there may be around 300 light vehicle and 65 heavy vehicle construction related movements distributed among these roads during the daytime. Based on this, the potential increase in noise due to construction traffic is not expected to be noticeable (ie less an increase of less than 1.0 dB), where noticeable traffic noise impacts are typically defined as an increase of greater than 2.0 dB.

Most construction traffic will occur during the daytime period, with construction traffic during the night-time period expected to be limited to traffic associated with tie-in work. Therefore, the total number of night-time construction related movements are expected to be significantly less the daytime volumes in Table 5-9 and are not considered likely to have a significant impact on the surrounding residents.

For Stage 2B, the expected construction traffic volumes are less than for Stage 2A, resulting in lower construction road traffic noise which is also not expected to be noticeable.

Potential construction traffic noise should be reviewed to confirm that no impacts are expected as part of detailed design, when final haulage routes and vehicle volumes are known.

6. Assessment of operational impacts

Operational road traffic noise impacts from the proposal 'without mitigation' have been predicted for all sensitive receivers in the study area. The operational impacts are discussed in the following sections.

6.1 Stage 2A - 2029

6.1.1 Residential receivers

The predicted operational road traffic noise levels at residential receivers are summarised in Table 6-1 for the 2029 at Stage 2A opening. The table shows the worst-case impacts in each NCA, which are typically experienced by the receivers nearest to the proposal.

The proposal is generally expected to result in traffic using the bypass rather than Kurrajong Road between Richmond town centre and North Richmond. Traffic accessing the bypass for Stage 2A of the proposal would be from Castlereagh Road and Londonderry Road via Southee Road. See the Traffic and Transport Impact Assessment for more information.

Receivers are generally most affected by the proposal in the daytime period in 2029 with respect to the RNCG criteria and RNMG triggers, and this scenario is considered to control the assessment in terms of determining the worst-case impacts and requirements for mitigation. The predicted noise levels for the daytime scenario in 2029 are shown in Figure 6-1 and the predicted change in noise levels (Build (with project) minus No Build (without project)) for the same scenario is shown in Figure 6-2.

Noise levels for the night-time scenario are generally predicted to be around 6 dB lower compared to the daytime, whereas the night-time RNCG criteria for residential receivers are 5 dB lower than the daytime criteria. Therefore, receivers are generally predicted to be marginally less affected by the proposal during the night-time.

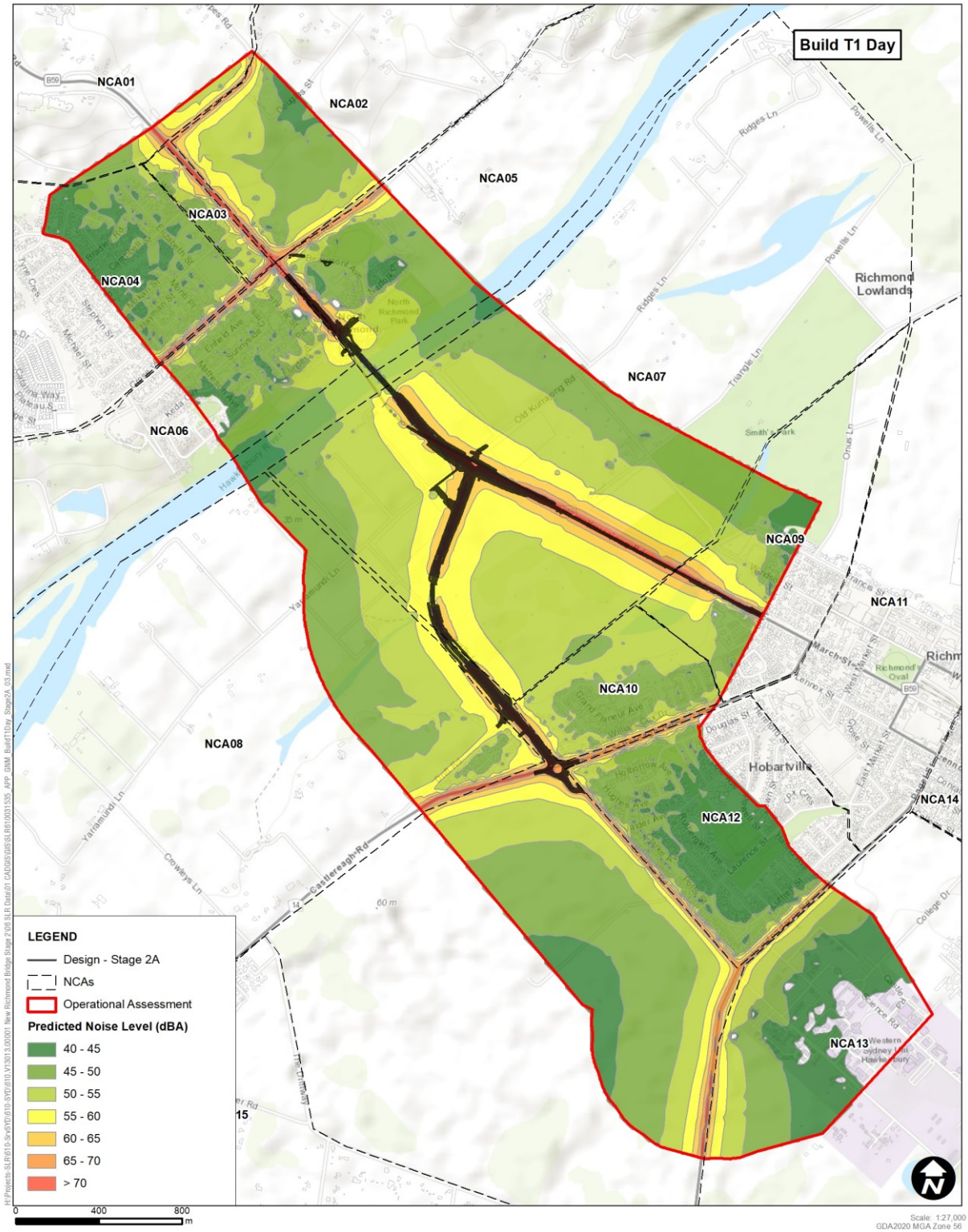
Detailed noise predictions for the daytime and night-time periods are shown in Appendix D together with operational road traffic noise contours with and without the proposal.

Table 6-1: Stage 2A predicted road traffic noise levels at most affected residential receivers in each NCA

NCA	Predicted Noise Level (dBA)[1]				Number of Triggered Buildings[2]			
	At Opening (2029)							
	No Build (without project)		Build (with project)					
	Day	Night	Day	Night	Trigger 1 >2.0 dB	Trigger 2 Cumulative	Trigger 3 Acute	Total
NCA01	64	58	63	57	-	-	-	-
NCA02	58	52	58	52	-	-	-	-
NCA03	71	65	71	65	-	-	-	-
NCA04	71	65	70	64	-	-	-	-
NCA05	64	59	65	59	-	1	1	1
NCA06	66	60	65	60	-	2	2	2
NCA07	55	50	58	52	1	-	-	1
NCA08	62	56	70	64	13	8	3	13
NCA09	72	66	71	66	-	-	-	-
NCA10	61	55	67	61	16	9	5	16
NCA12	65	60	67	60	65	4	1	68
NCA13	65	61	66	61	-	-	-	-
							Total	**101**

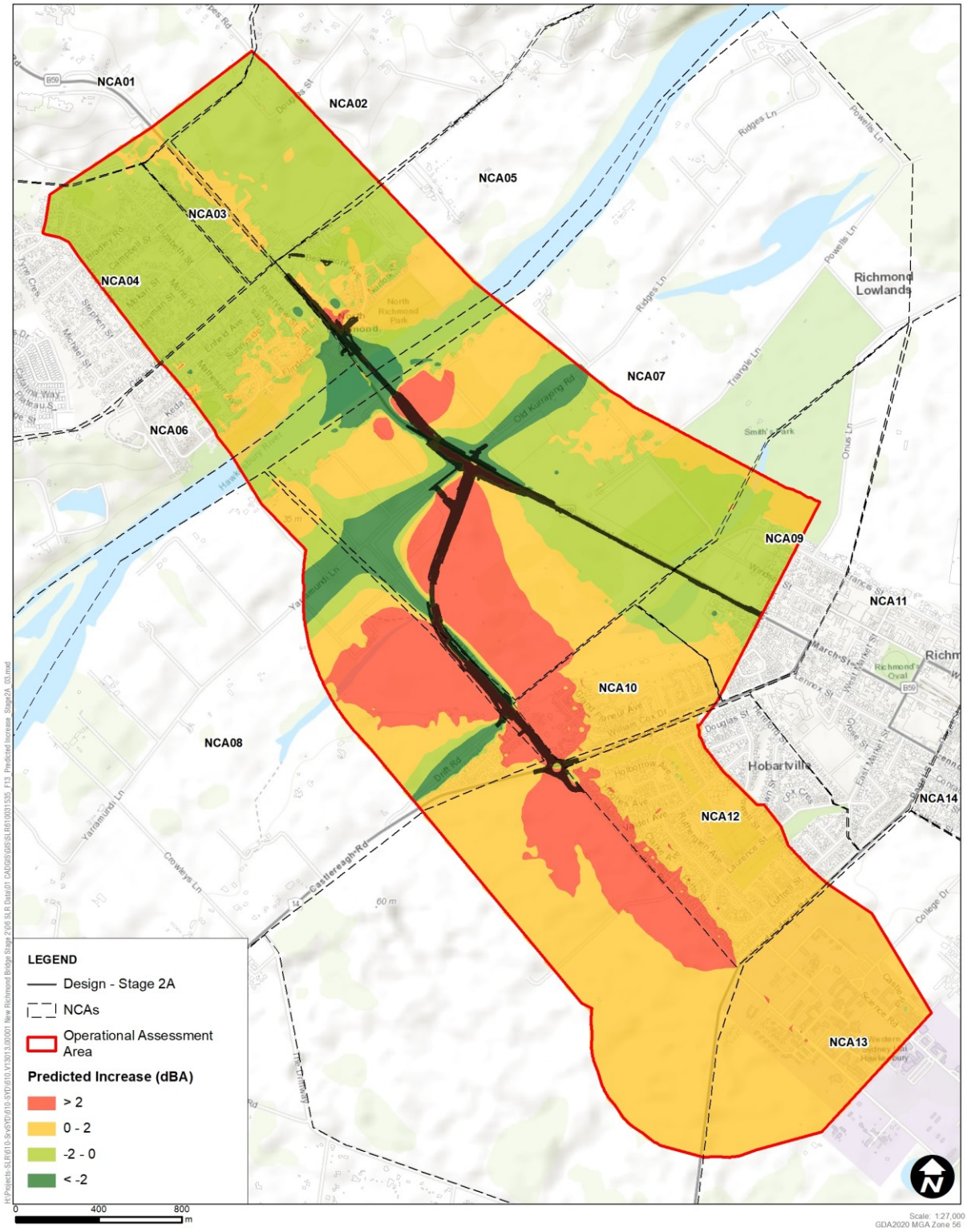
Note 1: Daytime and night-time are $L_{Aeq(15hour)}$ and $L_{Aeq(9hour)}$ noise levels, respectively.
Note 2: The RNMG triggers are discussed in Section 4.5.7.

Figure 6-1: Stage 2A predicted operational road traffic noise levels with the proposal (daytime scenario in 2029)



Note 1: The contours are predicted at 1.5 m above ground level and are free-field.

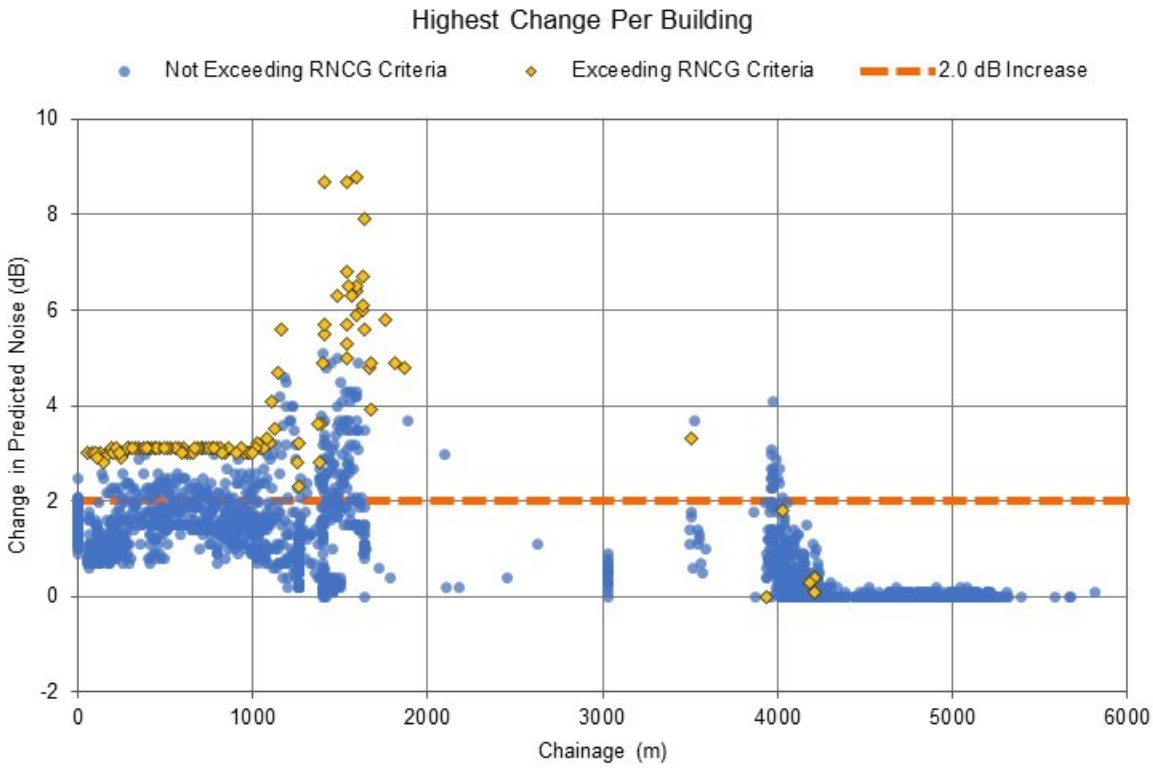
Figure 6-2: Stage 2A predicted change in operational road traffic noise between Build and No Build (2029 daytime scenario)



Note 1: The contours are predicted at 1.5 m above ground level and are free-field.

The predicted highest change at individual receivers from all 2029 scenarios is also shown in a scatter graph in Figure 6 3.

Figure 6-3: Stage 2A predicted change in road traffic noise levels due to the proposal



Note: The change in noise level is the predicted highest value per receiver building from Stage 2A scenarios. The chainage is approximate from the start of the Richmond Bypass starting at Londonderry Road and heading north and then continuing north along Bells Line of Road.

The results show that:

- The nearest residential receivers to the proposal, particularly receivers in NCA03, NCA04, NCA05, NCA06 and NCA09, are subject to relatively high existing road traffic noise levels, which already exceed the RNCG criterion in many cases.
- The proposal is predicted to alter operational road traffic noise levels for many receivers in the study area, particularly on the southern side of the Hawkesbury River due to the new Richmond Bypass. Increases of greater than 2.0 dB are predicted at certain receivers in NCA07, NCA08, NCA10 and NCA12 due to a combination of the vehicles travelling on the new bypass and generally increased traffic volumes in the area.
- Exceedances of the RNCG cumulative limit criteria (ie 5 dB or more above the RNCG controlling criterion see Section 4.5.7) are predicted at residential receivers near to the alignment in NCA05, NCA06, NCA08, NCA10 and NCA12.
- Receivers adjacent the alignment in NCA05, NCA06, NCA08, NCA10 and NCA12 are also predicted to be subject to acute noise levels (ie daytime noise levels are 65 dBA or higher, or night-time noise levels are 60 dBA or higher).
- In summary, the proposal is predicted to result in:
  - 95 residential receivers experiencing increases in traffic noise of greater than 2.0 dB and above the base criteria
  - 24 residential receivers experiencing noise levels above the cumulative limit criteria
  - 12 residential receivers experiencing acute noise levels
- In total, 101 residential receivers are considered eligible for consideration of additional noise mitigation, as per the operational road traffic noise criteria.

6.1.2 'Other Sensitive' receivers

'Other Sensitive' receivers that are predicted to have exceedances of the trigger levels in 2029 are shown in Table 6-2. The location of the triggered 'other sensitive' receivers is shown in Figure 2-1.

Table 6-2: Stage 2A 'Other Sensitive' receivers triggers

NCA	Receiver	Floor	Type	RNMG Triggers[1]		
				Trigger 1 >2.0 dB	Trigger 2 Cumulative	Trigger 3 Acute
NCA06	Hawkesbury Dentistry	1	Medical	-	Y	-
	Advanced Podiatry	1	Medical	-	Y	-
NCA08	The Church of Jesus Christ of Latter-day Saints	1	Place of Worship	Y	Y	Y

Note 1: The RNMG triggers are discussed in Section 4.5.7.

6.1.3 Heritage receivers

Heritage receivers that are predicted to have exceedances of the trigger levels in 2029 are shown in Table 6-3.

Table 6-3: Stage 2A heritage receivers triggers

NCA	Item Name	Address	Floor	Type	RNMG Triggers[1]		
					Trigger 1 >2.0 dB	Trigger 2 Cumulative	Trigger 3 Acute
NCA10	Mountain View	22 Inalls Lane, Richmond	2	Residential	Y	Y	-
	House	32 Inalls Lane, Richmond	1	Residential	Y	Y	Y

Note 1: The RNMG triggers are discussed in Section 4.5.7.

6.1.4 Receivers eligible for consideration of 'additional noise mitigation'

The receivers which have been identified as eligible for consideration of 'additional noise mitigation' (ie triggered receivers) are summarised in Table 6-8 and shown in Figure 6-8.

Table 6-4: Stage 2A receivers eligible for consideration for 'additional noise mitigation'

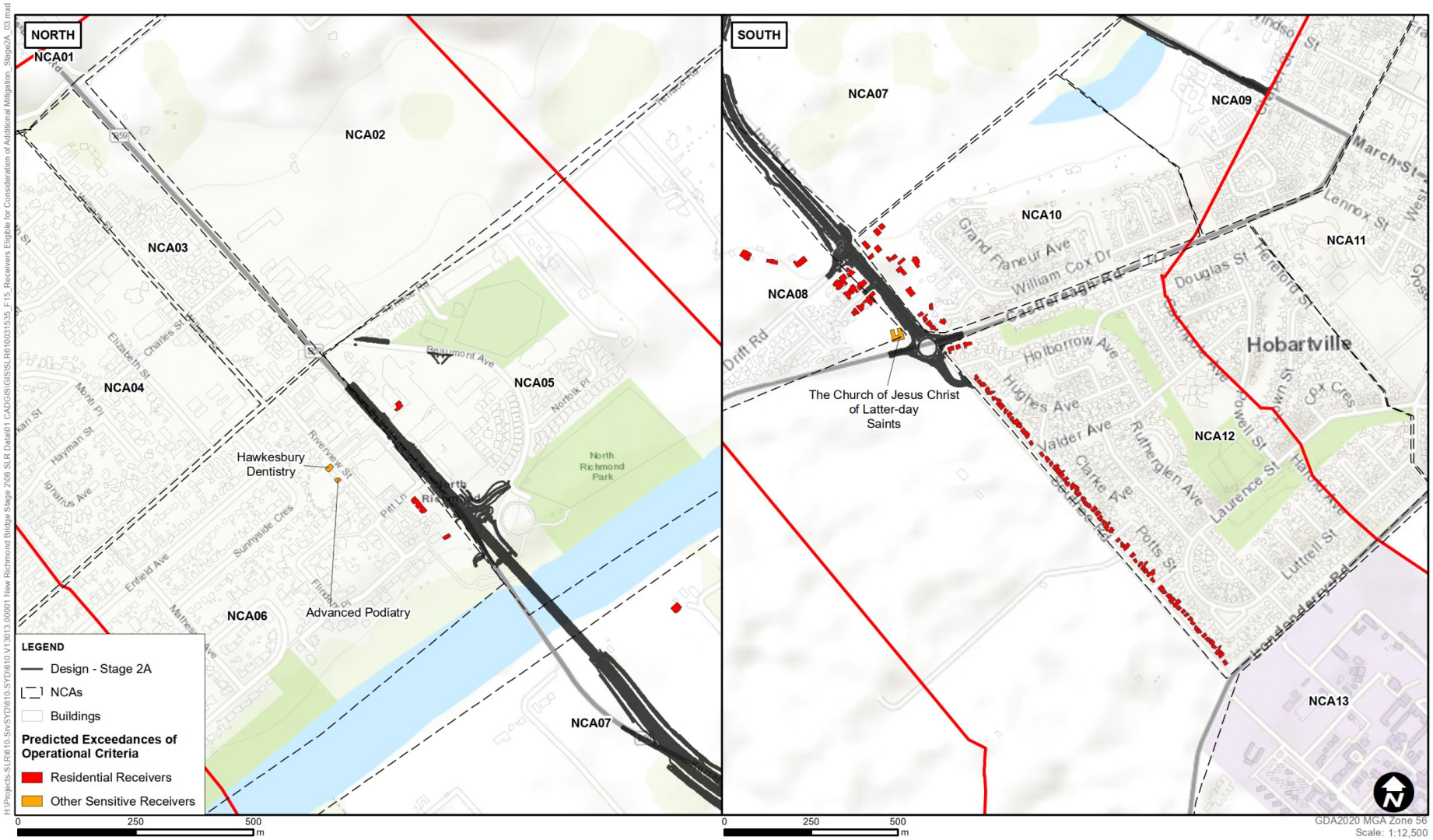
NCA	Number of Triggered Buildings (Floors)		Comment
	Residential	Other Sensitive	
NCA01	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA02	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA03	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA04	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA05	1 (1)	0 (0)	One residential receiver to the north of Bells Line of Road is triggered in this catchment due to noise levels exceeding the cumulative limit and being acute.
NCA06	2 (2)	2 (2)	Two residential receiver and two other sensitive receivers to the south of Bells Line of Road are triggered in this catchment due to noise levels exceeding the cumulative limit or being acute.
NCA07	1 (1)	0 (0)	One residential receiver to the north of Bells Line of Road is triggered in this catchment due to noise levels increasing by greater than 2dB.

NCA	Number of Triggered Buildings (Floors)		Comment
	Residential	Other Sensitive	
NCA08	13 (17)	1 (1)	13 residential receivers and one other sensitive receiver to the south of the proposed Richmond Bypass (south of Inalls lane) are triggered in this catchment due to noise levels increasing by greater than 2dB, exceeding the cumulative limit criteria or being acute.
NCA09	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA10	16 (18)	0 (0)	16 residential receivers to the north of the proposed Richmond Bypass (north of Inalls Lane) are triggered in this catchment due to noise levels increasing by greater than 2dB, exceeding the cumulative limit criteria or being acute.
NCA11	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA12	68 (72)	0 (0)	68 residential receivers to the Southee Road are triggered in this catchment due to noise levels increasing by more than 2dB or exceeding the cumulative limit criteria and one receiver being acute.
NCA13	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
Sub Total	101 (111)	3 (3)	
TOTAL	**104 (114)**		

Note 1: The count of 'floors' represents separate triggered receiver floors within each building.

In summary, the above assessment for Stage 2A shows a total of 104 sensitive receiver buildings are predicted to have exceedances of the RNCG operational road traffic noise criteria and are therefore eligible for consideration of 'additional noise mitigation'. Operational noise mitigation measures for the proposal are discussed further in Section 7.2.

Figure 6-4: Stage 2A receivers eligible for consideration of additional noise mitigation measures



6.2 Stage 2B – 2039

6.2.1 Residential receivers

The predicted operational road traffic noise levels at residential receivers are summarised in Table 6-5 for 2039 future design scenario with Stage 2B. The table shows the worst-case impacts in each NCA, which are typically experienced by the receivers nearest to the proposal.

The proposal is generally expected to result in traffic using the bypass rather than Kurrajong Road between Richmond town centre and North Richmond. The bypass would be directly accessible to traffic from both Castlereagh Road and Londonderry Road for Stage 2B of the proposal. Traffic volumes on Southee Road are expected to reduce as it would be closed at Castlereagh and Londonderry roads, with through traffic using the adjacent bypass. See the Traffic and Transport Impact Assessment for more information.

Receivers are generally most affected by the proposal in the daytime period in 2039 with respect to the RNCG criteria and RNMG triggers, and this scenario is considered to control the assessment in terms of determining the worst-case impacts and requirements for mitigation. The predicted noise levels for the daytime scenario in 2039 are shown in Figure 6-5 and the predicted change in noise levels (Build (with project) minus No Build (without project)) for the same scenario is shown in Figure 6-6.

Noise levels for the night-time scenario are generally predicted to be around 6 dB lower compared to the daytime, whereas the night-time RNCG criteria for residential receivers are 5 dB lower than the daytime criteria. Therefore, receivers are generally predicted to be marginally less affected by the proposal during the night-time.

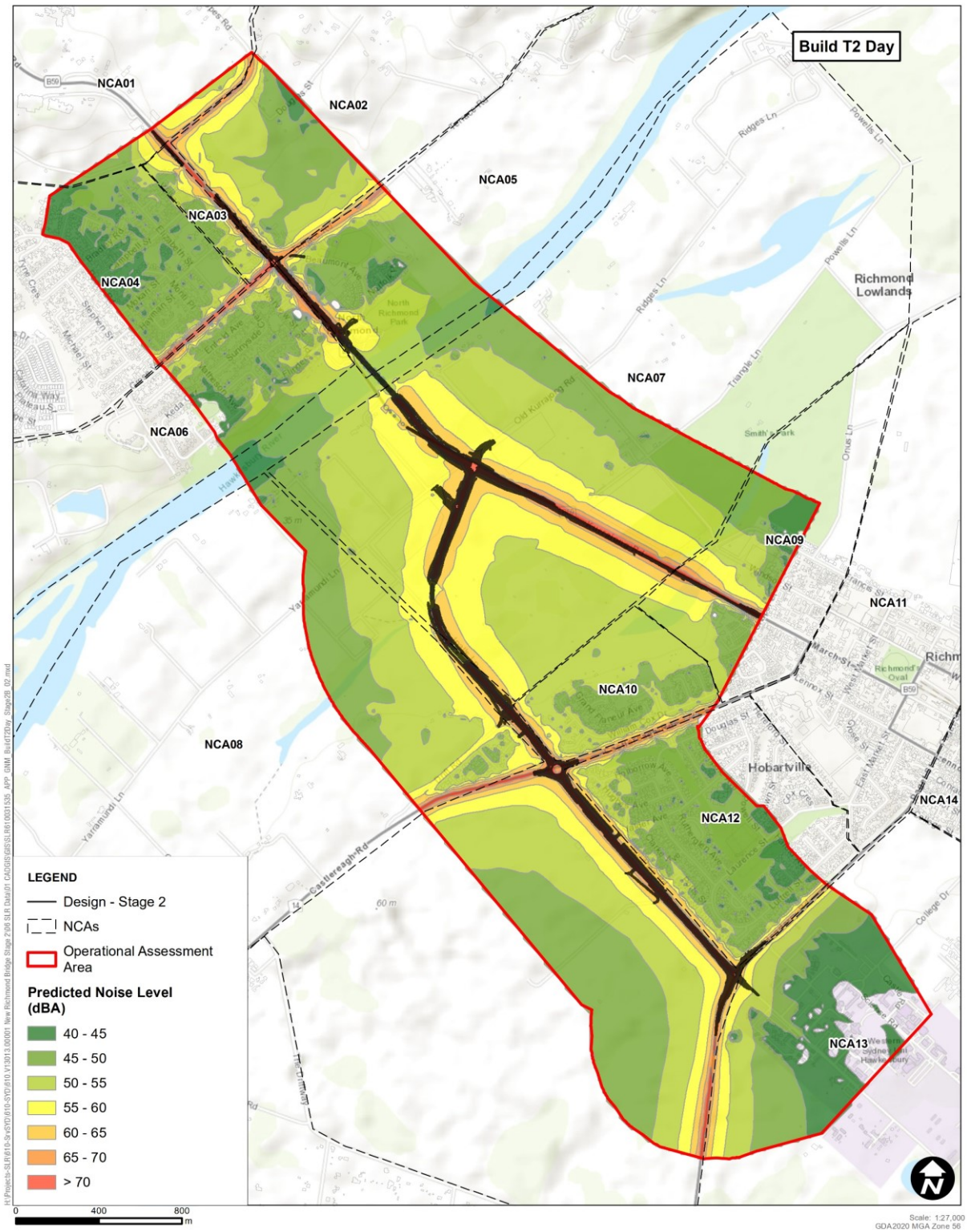
Detailed noise predictions for the daytime and night-time periods are shown in Appendix D together with operational road traffic noise contours with and without the proposal.

Table 6-5: Stage 2B predicted road traffic noise levels at most affected residential receivers in each NCA

NCA	Predicted Noise Level (dBA)[1]				Number of Triggered Buildings[2]			
	Future Design (2039)							
	No Build (without project)		Build (with project)					
	Day	Night	Day	Night	Trigger 1 >2.0 dB	Trigger 2 Cumulative	Trigger 3 Acute	Total
NCA01	64	58	64	58	0	0	0	0
NCA02	59	53	59	53	0	0	0	0
NCA03	71	65	72	65	0	13	10	13
NCA04	71	65	71	65	0	0	0	0
NCA05	65	59	65	59	0	1	1	1
NCA06	66	60	66	60	0	2	2	2
NCA07	56	50	58	53	1	0	0	1
NCA08	62	56	72	65	17	11	3	17
NCA09	72	66	71	66	0	0	0	0
NCA10	62	55	69	62	23	10	6	23
NCA12	65	59	68	62	77	73	1	84
NCA13	59	54	62	57	1	0	0	1
							Total	**142**

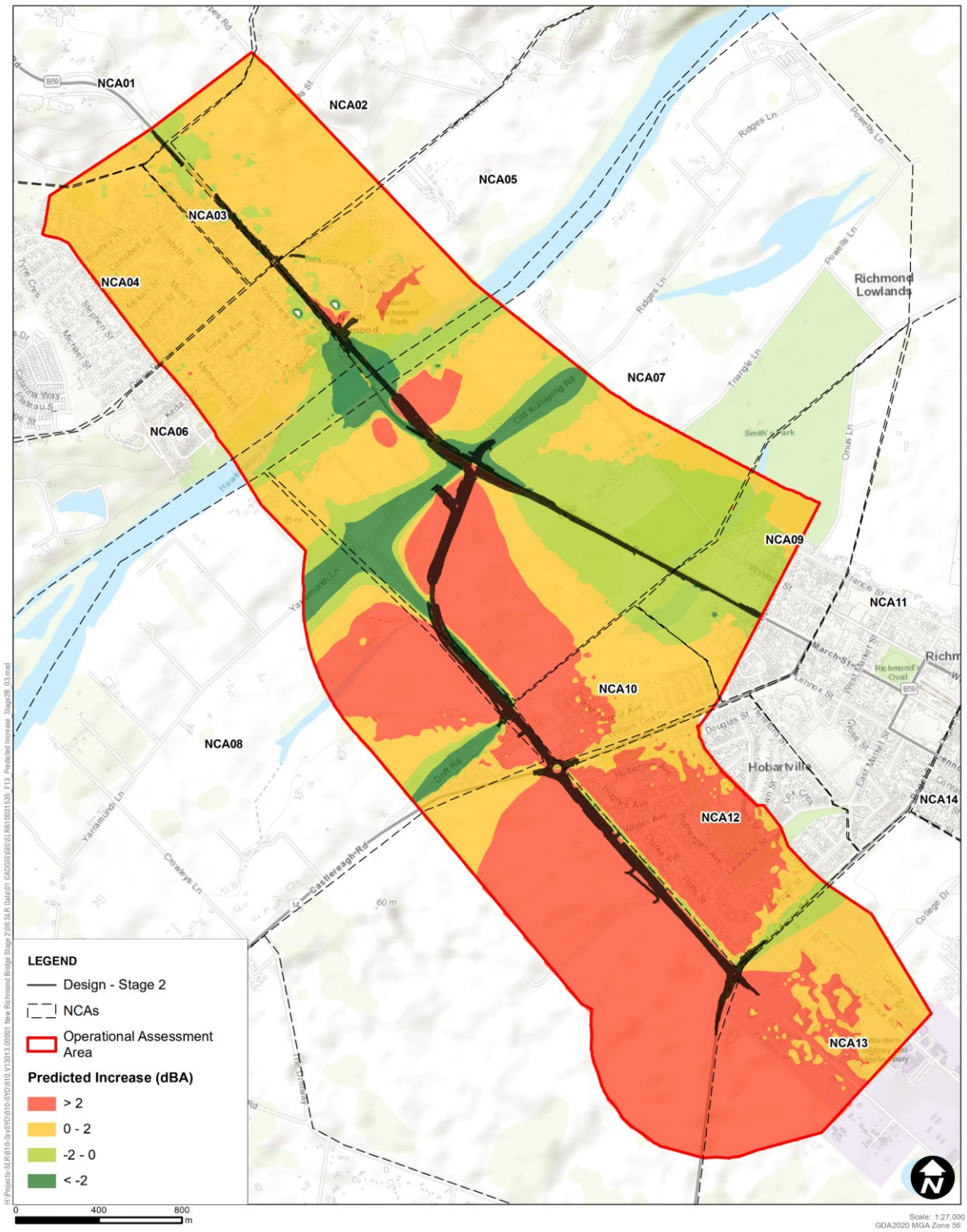
Note 1: Daytime and night-time are $L_{Aeq(15hour)}$ and $L_{Aeq(9hour)}$ noise levels, respectively.
Note 2: The RNMG triggers are discussed in Section 4.5.7.

Figure 6-5: Stage 2B predicted operational road traffic noise levels with the proposal (daytime scenario in 2039)



Note 1: The contours are predicted at 1.5 m above ground level and are free-field.

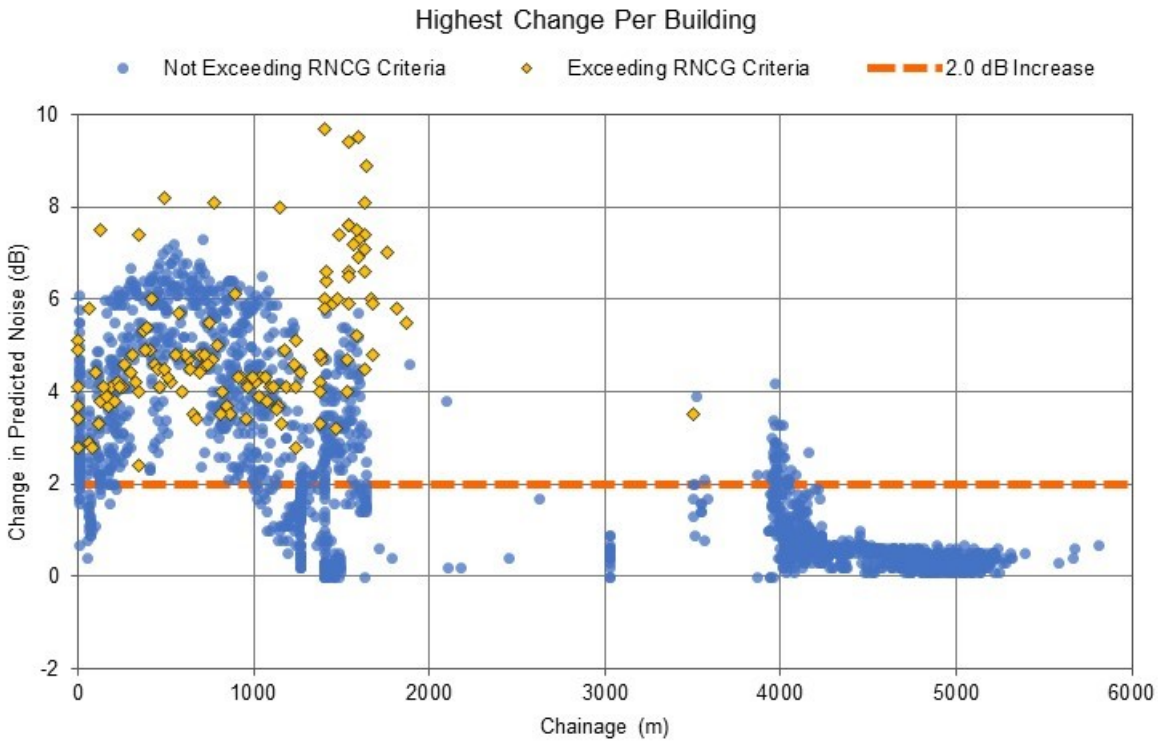
Figure 6-6: Stage 2B predicted change in operational road traffic noise between build and No Build (2039 daytime scenario)



Note 1: The contours are predicted at 1.5 m above ground level and are free-field.

The predicted highest change at individual receivers from all 2039 scenarios is also shown in a scatter graph in Figure 6 3.

Figure 6-7: Stage 2B predicted change in road traffic noise levels due to the proposal



Note: The change in noise level is the predicted highest value per receiver building from Stage 2B scenarios. The chainage is approximate from the start of the Richmond Bypass starting at Londonderry Road and heading north and then continuing north along Bells Line of Road.

The results show that:

- The nearest residential receivers to the proposal, particularly receivers in NCA03, NCA04, NCA05, NCA06 and NCA09, are subject to relatively high existing road traffic noise levels, which already exceed the RNCG criterion in many cases.
- The proposal is predicted to alter operational road traffic noise levels for many receivers in the study area, particularly on the southern side of the Hawkesbury River due to the new Richmond Bypass. Increases of greater than 2.0 dB are predicted at certain receivers in NCA07, NCA08, NCA10, NCA12 and NCA13 due to a combination of the vehicles travelling on the new bypass and generally increased traffic volumes in the area.
- Exceedances of the RNCG cumulative limit criteria (ie 5 dB or more above the RNCG controlling criterion see Section 4.5.7) are predicted at residential receivers near to the alignment in NCA03, NCA05, NCA06, NCA08, NCA10 and NCA12.
- Receivers adjacent the alignment in NCA03, NCA05, NCA06, NCA08, NCA10 and NCA12 are also predicted to be subject to acute noise levels (ie daytime noise levels are 65 dBA or higher, or night-time noise levels are 60 dBA or higher).
- In summary, the proposal is predicted to result in:
  - 119 residential receivers experiencing increases in traffic noise of greater than 2.0 dB and above the base criteria
  - 110 residential receivers experiencing noise levels above the cumulative limit criteria
  - 23 residential receivers experiencing acute noise levels
- In total, 142 residential receivers are considered eligible for consideration of additional noise mitigation, as per the operational road traffic noise criteria.

6.2.2 'Other Sensitive' receivers

'Other Sensitive' receivers that are predicted to have exceedances of the trigger levels in 2039 are shown in Table 6-6. The location of the triggered 'other sensitive' receivers is shown in Figure 2-1.

Table 6-6: 'Other Sensitive' receivers triggers

NCA	Receiver	Floor	Type	RNMG Triggers[1]		
				Trigger 1 >2.0 dB	Trigger 2 Cumulative	Trigger 3 Acute
NCA03	Riverlands Dental	1	Medical	-	Y	-
	North Richmond family Medical Practice	1	Medical	-	Y	-
NCA04	Elizabeth Street Extended Hours Preschool	1	Childcare	-	Y	-
	Richmond North Public School	1	Educational	-	Y	-
	Caring 4 Kids - Child Care North Richmond	1	Childcare	-	Y	-
NCA06	Hawkesbury Dentistry	1	Medical	-	Y	-
	Community Kids, North Richmond Early Education Centre	1	Childcare	-	Y	-
	Advanced Podiatry	1	Medical	-	Y	-
NCA08	The Church of Jesus Christ of Latter-day Saints	1	Place of Worship	Y	Y	Y
NCA12	Hobartville Long Day Preschool	1	Childcare	Y	-	-
	Hobartville Public School	1	Educational	Y	-	-
		1	Educational	Y	-	-
NCA13	Western Sydney University	1	Educational	Y	-	-
		1	Educational	Y	-	-
		2	Educational	Y	-	-
		2	Educational	Y	-	-
		2	Educational	Y	-	-

Note 1: The RNMG triggers are discussed in Section 3.2.1.

6.2.3 Heritage receivers

Heritage receivers that are predicted to have exceedances of the trigger levels in 2039 are shown in Table 6-7.

Table 6-7: Stage 2B heritage receivers triggers

NCA	Item Name	Address	Floor	Type	RNMG Triggers[1]		
					Trigger 1 >2.0 dB	Trigger 2 Cumulative	Trigger 3 Acute
NCA03	House	101A Bells Line of Road, North Richmond	1	Residential	-	Y	Y
NCA10	Mountain View	22 Inalls Lane, Richmond	2	Residential	Y	Y	-
	House	32 Inalls Lane, Richmond	1	Residential	Y	Y	Y

Note 1: The RNMG triggers are discussed in Section 4.5.7.

6.2.4 Receivers eligible for consideration of 'additional noise mitigation'

The receivers which have been identified as eligible for consideration of 'additional noise mitigation' (ie triggered receivers) are summarised in Table 6-8 and shown in Figure 6-8.

Table 6-8: Stage 2B receivers eligible for consideration for 'additional noise mitigation'

NCA	Number of Triggered Buildings (Floors)		Comment
	Residential	Other Sensitive	
NCA01	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA02	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA03	13 (15)	2 (2)	13 residential receivers to the south of Bells Line of Road are triggered in this catchment due to noise levels exceeding the cumulative limit or being acute. Two other sensitive receivers to the south of Bells Line of Road are triggered in this catchment due to noise levels exceeding the cumulative limit
NCA04	0 (0)	3 (3)	Three other sensitive receivers to the south of Bells Line of Road are triggered in this catchment due to noise levels exceeding the cumulative limit.
NCA05	1 (1)	0 (0)	One residential receiver to the north of Bells Line of Road is triggered in this catchment due to noise levels exceeding the cumulative limit and being acute.
NCA06	2 (2)	3 (3)	Two residential receiver and three other sensitive receivers to the south of Bells Line of Road are triggered in this catchment due to noise levels exceeding the cumulative limit or being acute.
NCA07	1 (1)	0 (0)	One residential receiver to the north of Bells Line of Road is triggered in this catchment due to noise levels increasing by greater than 2dB.
NCA08	17 (24)	1 (1)	17 residential receivers and one other sensitive receiver to the south of the proposed Richmond Bypass (south of Inalls lane) are triggered in this catchment due to noise levels increasing by greater than 2dB, exceeding the cumulative limit criteria or being acute.
NCA09	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA10	23 (27)	0 (0)	23 residential receivers to the north of the proposed Richmond Bypass (north of Inalls Lane) are triggered in this catchment due to noise levels exceeding the cumulative limit criteria or being acute.

NCA	Number of Triggered Buildings (Floors)		Comment
	Residential	Other Sensitive	
NCA11	0 (0)	0 (0)	No sensitive receivers in this catchment are eligible.
NCA12	84 (88)	3 (3)	84 residential receivers and two other sensitive to the north of the proposed Richmond Bypass (north of Southee Road) are triggered in this catchment due to noise levels increasing by more than 2dB or exceeding the cumulative limit criteria and one receiver being acute.
NCA13	1 (2)	5 (8)	One residential receiver and five other sensitive receivers to the east of Londonderry Road are triggered in this catchment due to noise levels increasing by more than 2dB or exceeding the cumulative limit criteria.
Sub Total	142 (160)	17 (20)	
TOTAL	**159 (180)**		

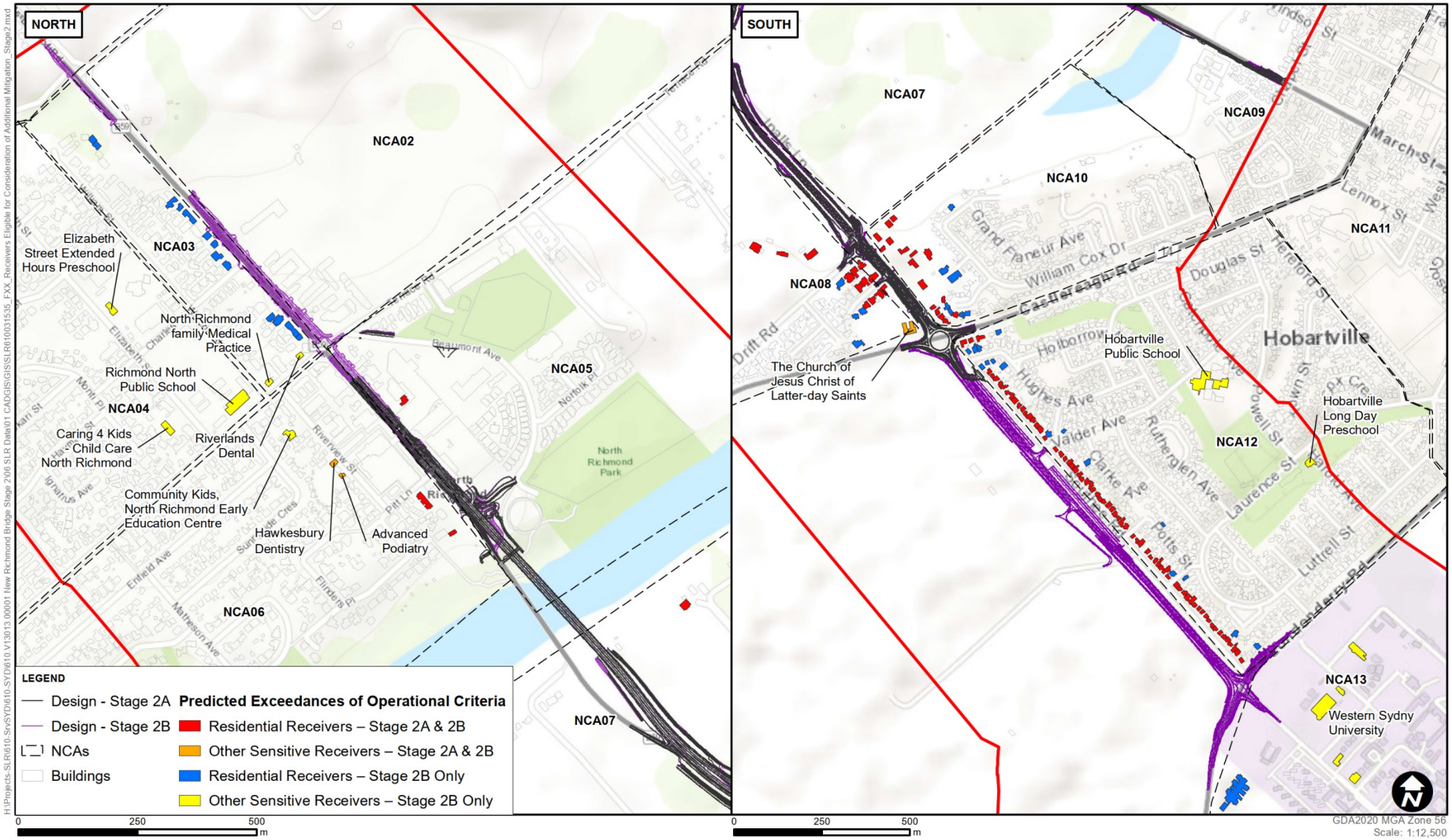
Note 1: The count of 'floors' represents separate triggered receiver floors within each building.

In summary, the above assessment for Stage 2B shows a total of 159 sensitive receiver buildings are predicted to have exceedances of the RNCG operational road traffic noise criteria and are therefore eligible for consideration of 'additional noise mitigation'. All sensitive receivers eligible for consideration of 'additional noise mitigation' for Stage 2B in 2039 are also triggered for Stage 2A in 2029.

Figure 6-8 separately shows receivers that are eligible for consideration of 'additional noise mitigation' from Stage 2A and Stage 2B or Stage 2B only. Note that the level of the exceedances predicted for Stage 2B are generally higher than for Stage 2A, and the required level of treatment may be greater.

Operational noise mitigation measures for the proposal are discussed further in Section 7.2.

Figure 6-8: Stage 2B receivers eligible for consideration of additional noise mitigation measures



6.3 Kurrajong Road minor works

The proposed minor works at Kurrajong Road for the shared user path will result with the eastbound lane moving approximately 2 m to the north at the worst case location to allow for the proposed pedestrian island. However, where the road is closest to the potentially most affected residential receivers on Chapel Street the lane edge is only moving around 1 m closer.

The increase in road traffic noise due to the 1-2 m adjustment is expected to be less than 1 dB. However, the traffic on Kurrajong Road is expected to decrease due to the proposal, with daytime volumes reducing from 25,000 to 22,000 vehicles. When compared to the No Build scenario, the noise level at the closest residential receivers is predicted to marginally decrease (around 0.5 dB) during the daytime and be consistent during the night-time.

All sensitive receivers near to the minor works for the shared user path along Kurrajong Road are predicted to have noise levels increase by less than 2.0 dBA and therefore comply with the RNCG criteria. Detailed noise level predictions for receivers in this area (NCA09) are included in Appendix D.

6.4 Maximum road traffic noise levels

6.4.1 Existing maximum noise levels

Existing maximum noise levels were measured in the study area during the noise monitoring survey and a summary of the data is shown in Table 6-9. Detailed results are provided in Appendix D.

Table 6-9: Existing Maximum noise level events

Monitoring Location[1]	Total Night-time Events[1,2]	Measured Maximum Noise Levels (dBA LAmax)	
		Range	Median
L02	790	65-89	72
L03	1118	65-88	79
L05	88	65-86	71
L07	879	65-91	71
L08	1118	65-88	73

Note 1: Maximum noise levels are defined in Section 4.5.8.
Note 2: Monitoring period for all locations was 11 September 2023 to 22 September 2023.

The above table shows that existing maximum noise level events are a regular feature at the monitoring locations. Maximum noise events were measured to typically range from around 65 to 91 dBA.

Maximum noise level events towards the upper end of the range are likely to be from heavy vehicle, whereas the lower end of the range is likely due to nearby light vehicles.

6.4.2 Future maximum noise levels

As the proposal would widen and realign certain roads there is potential for changes to maximum noise level events in the study area due to vehicles being closer to adjacent receivers. A summary of the predicted changes is provided in Table 6-10, for Stage 2A and Stage 2B. The results are generally consistent for the two stages of the proposal, except for NCA03 and NCA12, where Stage 2B extends beyond Stage 2A.

Table 6-10: Predicted change in maximum noise levels

NCA	Worst-case Change (dB)		Discussion
	Stage 2A	Stage 2B	
NCA01	0 dB	0 dB	Negligible change in maximum noise levels predicted in this NCA.
NCA02	0 dB	0 dB	Negligible change in maximum noise levels predicted in this NCA.
NCA03	0 dB	+1 dB	Negligible change in maximum noise levels predicted in this NCA. Minor increases are predicted for Stage 2B due to the road shifting slightly closer.
NCA04	0 dB	0 dB	Negligible change in maximum noise levels predicted in this NCA.
NCA05	+1 dB	+1 dB	Negligible change in maximum noise levels predicted in this NCA. Minor increases are predicted due to the bridge alignment moving slightly closer.
NCA06	-1 dB	-1 dB	Negligible change in maximum noise levels predicted in this NCA. Minor decreases are predicted due to the bridge alignment moving slightly further away.
NCA07	+3 dB	+3 dB	Maximum noise levels are predicted to increase by up to 3 dB at the closest receiver to the north of this NCA due to the new road alignment being nearer than the existing road. Maximum noise levels at receivers in the south of this NCA which are closer to the existing road are predicted to decrease by up to 3 dB.
NCA08	+2 dB	+2 dB	Maximum noise levels are predicted to increase by up to 2 dB at the closest adjacent receiver to the new bypass due to the new road alignment being nearer than the existing road. The number of maximum noise level events are expected to increase as more heavy vehicles will use the bypass. Maximum noise levels at receivers further away from the proposed bypass are not expected to change due to existing noise along Castlereagh Road.
NCA09	+1 dB	+1 dB	Negligible change in maximum noise levels predicted in this NCA. Minor increases are predicted at the closest receivers to the north of Kurrajong Road due to the shared user path realignment moving Kurrajong Road slightly closer.
NCA10	+1 dB	+1 dB	Maximum noise levels are predicted to increase by up to 1 dB at the closest adjacent to the due to the alignment changes around Castlereagh Road being nearer than the existing road. Maximum Noise levels along receivers near Inalls Lane are predicted to decrease slightly due to the road alignment being slightly further away however the number of maximum noise level events are expected to increase as more traffic will use the bypass than existing.
NCA11	-	-	Outside operational project area
NCA12	0 dB	+2 dB	For Stage 2A, there is negligible change in maximum noise levels predicted in this NCA due to the Bypass ending at Castlereagh Road. The number of maximum noise level events are expected to increase as more heavy vehicles will use Southee Road as a continuation of the bypass, compared to the number of heavy vehicles using the existing Southee Road. For Stage 2B, maximum noise levels are predicted to increase by up to 2 dB at the closest receivers adjacent to Londonderry Road due to the alignment changes around Londonderry Road being nearer than the existing road.

NCA	Worst-case Change (dB)		Discussion
	Stage 2A	Stage 2B	
			For Stage 2B, maximum noise levels at receivers along Southee Road are predicted to decrease by up to 12 dB (when not considering local traffic along Southee Road) due to the majority of traffic using the bypass which is located further away, however, the number of maximum noise level events will increase as more traffic will use the bypass than the existing Southee Road. Traffic along Southee Road will then be limited to local traffic and maximum noise levels are not likely to change compared to the existing scenario.
NCA13	0 dB	0 dB	Negligible change in maximum noise levels predicted in this NCA.

The change in traffic due to the proposal is summarised in Table 6-11 for the night-time period, based on the traffic volumes in Appendix D. The overall traffic volumes are assumed to be approximately proportional to the number of maximum noise events.

Table 6-11: Change in traffic and number of maximum noise events

NCA	Road	Percentage Traffic Change Between Existing (2023) and Future with Project[1]					
		At Opening (2029)			Future Design (2039)		
		Total	Light Vehicles	Heavy Vehicles	Total	Light Vehicles	Heavy Vehicles
NCA02, NCA03, NCA04	Bells Line of Road North of Terrace Road	7%	14%	-28%	10%	17%	-33%
NCA05, NCA06, NCA07	Bells Line of Road North of Terrace Road	-1%	11%	-59%	5%	17%	-59%
NCA09	Kurrajong Road South of Bypass	-4%	3%	-52%	-10%	-2%	-60%
NCA08, NCA10	Bypass at Inalls Lane	334%	383%	55%	447%	504%	116%
NCA10, NCA12	Castlereagh Road East of Bypass	58%	70%	-13%	82%	99%	-17%
NCA08	Castlereagh Road West of Bypass	74%	97%	-27%	89%	115%	-29%
NCA12	Southee Road	175%	193%	19%	-79%	-76%	-99%
NCA12	Bypass Adjacent to Southee Road	-	-	-	330%	357%	98%

Note 1: The percentage change represents the difference between the existing and future scenarios (ie 100% is a doubling of traffic).

Table 6-11 shows that traffic volumes and the associated number maximum noise events are expected to:

- Increase in terms of light vehicles and decrease in terms of heavy vehicles on Bells Line of Road and Castlereagh Road. This is generally expected to result in more low level maximum noise events (ie around 65-75 dBA) and fewer high level maximum noise events (ie around 75-90 dBA).
- Decrease on Kurrajong Road south of the Bypass and north of Richmond town centre due to traffic using the Bypass.
- Substantially increase on the Bypass compared to the existing Inalls Lane between Castlereagh and Drift Road.

- Increase on Southee Road for Stage 2A of the proposal where the south end of the Bypass connects to Southee Road. For Stage 2B of the proposal, traffic on Southee Road is expected to decrease compared to the existing scenario, however, substantially more traffic would use the adjacent Bypass. This is expected to result in an increased number of maximum noise events but these would be at a relatively lower level due to the increased distance between the residential receivers and the Bypass.

It is important to note that increased future traffic volumes are expected due to a combination of the proposal, other road upgrades and general population growth in the area.

While receivers are not triggered for consideration of 'additional noise mitigation' by maximum noise levels alone, the selection of feasible and reasonable mitigation measures should consider the potential change in maximum noise levels and the effect the potential mitigation would have on those levels.

The recommended operational mitigation measures are discussed in Section 7.2.

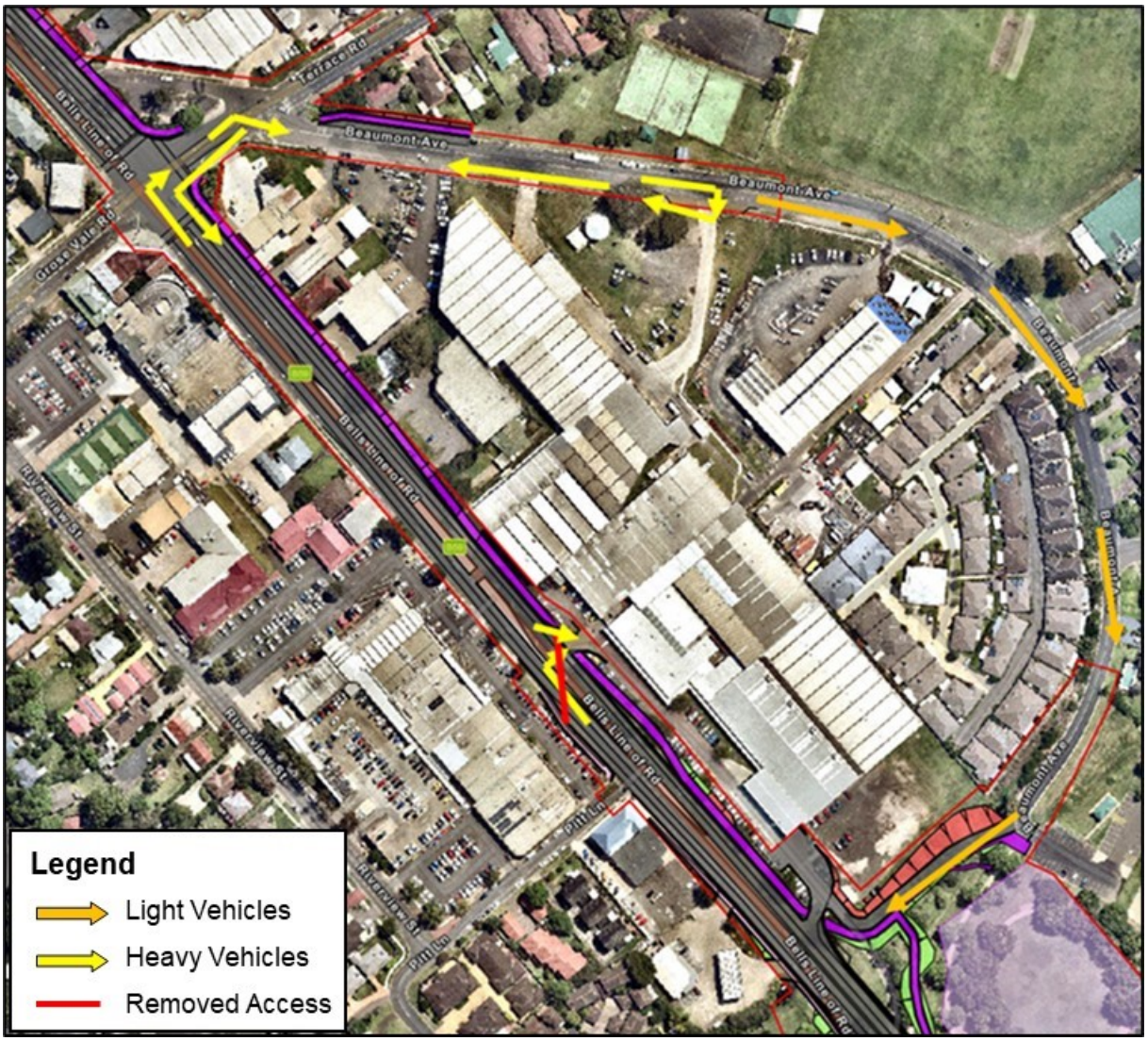
6.5 Westrock access redirection

Due to Stage 2A of the proposal creating a central median on Bells Line of Road, the right turn from Bells Line of Road to the Westrock business (located at 32 Beaumont Avenue, North Richmond) would be blocked. As a result, all vehicles coming from the east would need to turn right at the intersection of Bells Line of Road and Terrace Road as shown in Figure 6-9. There would be no change to vehicles traveling eastbound which have direct access to Westrock from Bells Line of Road.

Trucks would instead be required to turn right down Terrace Road and then onto Beaumont Avenue before turning around in the businesses rear access and then turn left at the intersection and enter Westrock from Bells Line of Road (as shown in Figure 6-9 in yellow).

Similarly, light vehicles travelling from Sydney (westbound) would instead travel down Beaumont Avenue and then access the carpark via the newly constructed access point (as shown in Figure 6-9 in orange).

Figure 6-9: Proposed access route to Westrock Business



The estimated additional traffic volumes directed to Beaumont Avenue due to the proposal is shown in Table 6-12.

Table 6-12: Additional Beaumont Avenue Traffic

Light Vehicles	Heavy Vehicles[1]
Estimated to be 70-100 per day	Estimated to be 1 per hour (assumed to be 15 per day)

Note 1: Heavy vehicles would only be required to travel around the first 200 m of Beaumont Avenue to turn around in the business rear access and would not pass the residential area further to the south.

Existing traffic volumes on Beaumont Avenue have been measured in 2023 and are summarised in Table 6-13 for the southern end of Beaumont Avenue (ie the orange section in Figure 6-9) where residential receivers are likely to be mostly impacted.

Table 6-13: Existing Traffic on Beaumont Avenue

Period	Light Vehicles	Heavy Vehicles
Morning peak	47	8
Afternoon peak	73	7
Traffic over peak 5 hours[1]	357	26
Assumed traffic over daytime 15 hour period[2]	714	52

Note 1: Traffic was counted during peak periods from 7:30 to 9:30 AM and 2:00 to 5:30 PM.

Note 2: Traffic for the daytime 15 hour period is assumed to be two times the monitored peak five hours. This is considered appropriate since traffic outside of the monitored peak hours is expected to be lower. The assumed daytime traffic equates to around 10 times the daily peak. This ratio is conservatively consistent with the 24 hour traffic counting conducted on nearby roads during the noise monitoring period, which found daytime volumes to be around 8-10 times the peak.

Based on the measured existing traffic volumes and the estimated additional traffic, the daytime road traffic noise along the residential area of Beaumont Avenue is predicted to be around 56 dBA $L_{Aeq(15hour)}$ at a reference distance of 10 m from the road edge, which represents an increase of less than 0.5 dB as a result of the additional traffic along Beaumont Avenue.

The additional traffic expected on Beaumont Avenue due to the Westrock traffic redirection should be reviewed during detailed design to confirm that no road traffic noise impacts are expected.

Further assessment of potential traffic noise impacts along Beaumont Avenue should be undertaken during detailed design.

6.6 Audio-Tactile Push Button Noise Assessment

The proposed locations of audio-tactile push buttons at the intersection of Londonderry Road, the new bypass and Vines Drive and the associated 18 m distance setback from all push buttons is shown in Figure 6-10.

Figure 6-10: Audio-tactile push button setbacks



No noise-sensitive receivers are located within 18 m of the push button. The closest sensitive receiver on Londonderry Road is around 45 m from the closest push button location. Therefore, it is not anticipated that adverse noise impacts would be apparent from audio-tactile push buttons at this intersection.

7. Mitigation

7.1 Construction impacts

The ICNG acknowledges that due to the nature of construction work it is inevitable that there would be noise and vibration impacts where construction activities are near to sensitive receivers. Examples of potential mitigation and management measures which could be applied to the proposal to minimise the impacts are provided below.

A Construction Noise and Vibration Management Plan would be prepared prior to work commencing which would detail the approach to providing noise and vibration mitigation during construction. Site specific Construction Noise and Vibration Impact Statements would also be completed for work that is required to be completed outside of Standard construction hours that has potential to impact sensitive receivers.

7.1.1 Standard mitigation measures

The Transport Construction Noise and Vibration Guideline (Roads) (CNVG-R) contains a number of 'standard mitigation measures' for mitigating and managing construction impacts. The measures are shown in Appendix C and should be applied to construction of the proposal, where feasible and reasonable.

7.1.2 Additional mitigation measures

Where noise impacts remain after the use of 'standard mitigation measures', the CNVG-R requires the use of 'additional mitigation measures' where feasible and reasonable. The 'additional mitigation measures' are determined on the basis of the exceedance of the appropriate management levels. Descriptions of the various measures are in Appendix C. The CNVG-R defines how 'additional mitigation measures' are applied to airborne noise impacts and the approach is shown in Table 7-1.

Table 7-1: CNVG-R triggers for additional mitigation measures – airborne noise

Predicted Airborne ($L_{Aeq, 15min}$) Noise Level at Receiver			Additional Mitigation Measures
Perception	dBA above RBL	dBA above NML	Type[1]
All hours			
75 dBA or greater			N, V, PC, RO
Approved Hours: Mon - Fri (7am - 6pm), Sat (8am - 6pm), Sun/Pub Hol (Nil)			
Noticeable	5 to <10	0	-
Clearly Audible	10 to <20	<10	-
Moderately Intrusive	20 to 30	10 to 20	N, V
Highly Intrusive	> 30	> 20	N, V
OOHW Period 1: Mon - Fri (6pm - 10pm), Sat (7am - 8am & 6pm - 10pm), Sun/Pub Hol (8am - 6pm)			
Noticeable	5 to <10	< 5	-
Clearly Audible	10 to <20	5 to <15	N, R1, DR
Moderately Intrusive	20 to 30	15 to 25	V, N, R1, DR
Highly Intrusive	> 30	> 25	V, IB, N, R1, DR, PC, SN
OOHW Period 2: Mon - Fri (10pm - 7am), Sat (10pm - 8am), Sun/Pub Hol (6pm - 7am)			
Noticeable	5 to <10	< 5	N
Clearly Audible	10 to <20	5 to <15	V, N, R2, DR

Predicted Airborne ($L_{Aeq, 15min}$) Noise Level at Receiver			Additional Mitigation Measures
Perception	dBA above RBL	dBA above NML	Type[1]
Moderately Intrusive	20 to 30	15 to 25	V, IB, N, PC, SN, R2, DR
Highly Intrusive	> 30	> 25	AA, V, IB, N, PC, SN, R2, DR

Note 1: N = Notification, SN = Specific Notification, PC = Phone Calls, IB = Individual Briefings, R1 = Respite Period 1, R2 = Respite Period 2, RO = Project Specific Respite Offer, DR = Duration Respite, AA = Alternative Accommodation, V = Verification.

The requirement for 'additional mitigation measures' would be further evaluated as the proposal progresses and detailed construction scheduling information becomes available.

7.1.3 Proposal specific construction mitigation measures

On the basis of the predictions, Table 7-2 lists the proposal specific mitigation measures which would be used to minimise the impacts.

Table 7-2: Recommended proposal specific noise mitigation measures

Item	Discussion and Recommendations
Construction Noise and Vibration Management Plan	A Construction Noise and Vibration Management Plan (CNVMP) would be prepared before any work begins which would include: • Identification of nearby sensitive receivers • Description of works, construction equipment and hours work would be completed in • Criteria for the proposal and approval conditions • Requirements for noise and vibration monitoring • Details of how community consultation would be completed • Procedures for handling complaints • Details on how respite would be applied where ongoing high impacts are experienced at certain receivers.
Construction noise and vibration assessments	Location and activity specific noise and vibration impact assessments would be carried out prior to (as a minimum) activities: • With the potential to result in noise levels at or above 75 dBA at any receiver • Required outside Standard construction hours likely to result in noise levels in greater than the relevant Noise Management Levels • With the potential to exceed relevant criteria for vibration. The assessments would confirm the predicted impacts at the relevant receivers in the vicinity of the activities to aid the selection of appropriate management measures, consistent with the requirements of the CNVG-R.
Construction noise exceedances	The assessment has identified that 'highly intrusive' impacts are likely at the nearest receivers when noise intensive equipment such as concrete saws are in use, especially during evening and night-time periods. Where noise intensive equipment is to be used near sensitive receivers, the work would be scheduled for Standard construction hours, where possible. If it is not possible to restrict the work to the daytime then they would be completed as early as possible in each work shift. Appropriate respite would also be provided to affected receivers in accordance with the CNVG-R.

Item	Discussion and Recommendations
Compounds with long term work	Hoarding, or other shielding structures, would be used where receivers are impacted near compounds or fixed work areas with long durations. To provide effective noise mitigation, the barriers should break line-of-sight from the nearest receivers to the work and be of solid construction with minimal gaps.
Monitoring	Monitoring would be carried out at the start of noise and/or vibration intensive activities to confirm that actual levels are consistent with the predictions and that appropriate mitigation measures from the CNVG-R have been implemented.
Vibration work within minimum working distance	Where work is within the minimum working distances and considered likely to exceed the cosmetic damage criteria (see Section 5.4): • Different construction methods with lower source vibration levels would be investigated and implemented, where feasible • Attended vibration measurements would be undertaken at the start of the work to determine actual vibration levels at the item. Work would be ceased if the monitoring indicates vibration levels are likely to, or do, exceed the relevant criteria.
	Certain receivers in the study area are within the human comfort minimum working distance (see Section 5.4) and occupants of affected buildings may be able to perceive vibration impacts when vibration intensive equipment is in use. The potential human comfort impacts and requirement for vibration intensive work would be reviewed as the proposal progresses.
Building condition surveys	Building condition surveys would be completed before and after the work where buildings or structures are within the minimum working distances and considered likely to exceed the cosmetic damage criteria during the use of vibration intensive equipment.

7.2 Operational road traffic noise mitigation measures

Road traffic noise levels from infrastructure projects should be reduced, where feasible and reasonable, to meet the RNCG noise criteria using mitigation. The assessment in Section 6 predicts road traffic noise levels to the surrounding receivers without any mitigation applied to the project.

For receivers that qualify for consideration of 'additional noise mitigation', the RNMG requires that potential noise mitigation measures are to be considered in the following order of preference:

- At-source mitigation:
  - Quieter road pavement surfaces
- In-corridor mitigation:
  - Noise mounds
  - Noise barriers
- At-receiver mitigation:
  - At-property treatments

7.2.1 At Source mitigation – quieter pavements

The type of road surface can affect road traffic noise levels experienced by sensitive receivers. Jointed concrete pavements tend to be the noisiest road surface with low noise pavements such as open grade asphalt (OGA) being the quietest.

Low noise pavements are to be considered first when specifying noise mitigation as they reduce source noise levels, which provides noise level benefit to both outside areas and internal spaces. Low noise pavements have no associated visual impact and are also likely to provide noise benefits to receivers at greater distances than noise barriers. They are generally considered feasible to use where there are four or more closely spaced receivers that exceed the operational road traffic noise criteria.

Road pavement surfaces and textures must meet a number of criteria besides noise performance including structural integrity, skid resistance, water shedding, maintenance requirements and design life.

Low noise pavements are generally most effective where vehicle speeds are high, such as on motorways, and less effective where traffic speeds are slower or where traffic is required to slow down or stop. It is noted that the proposal includes several intersections, which would reduce the effectiveness of low noise pavements due to stop/start traffic.

Assessment of pavements

The proposal includes the use of quieter noise pavements in the form of dense grade asphalt (DGA) for all redeveloped and new roads in the study area, with the exception of the roundabout at Castlereagh Road which is proposed to be concrete for design purposes. DGA is generally quieter compared to chip seal, concrete and some stone mastic asphalts, as documented in the RNMVG.

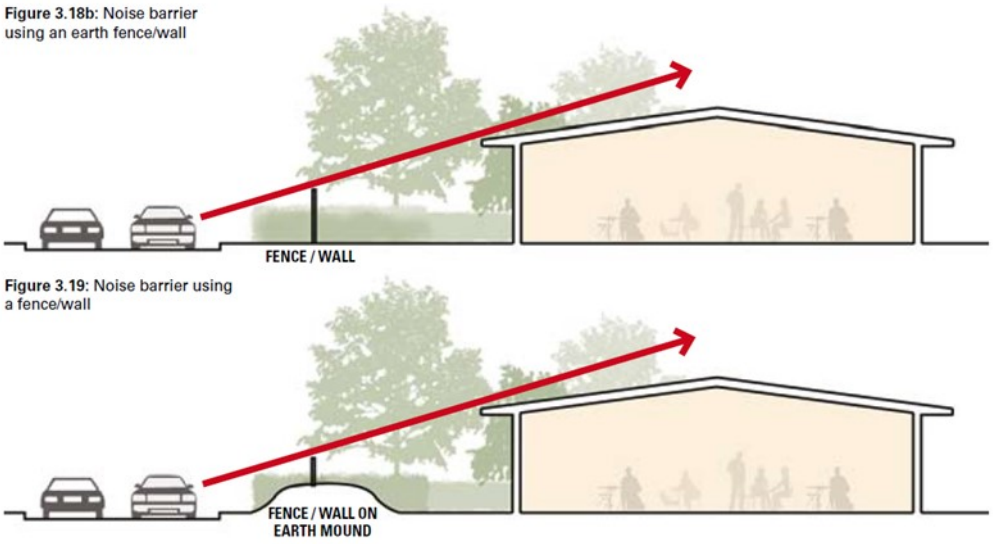
The use of low noise pavements, such as OGA, are unlikely to be a suitable approach for the proposal given the presence of intersections which require traffic to stop and start, and relatively low vehicle speeds.

7.2.2 In-Corridor mitigation – noise barriers

After at-source mitigation has been investigated, in-corridor mitigation should be considered, which aims to block line-of-sight from the source of noise to nearby receivers.

Noise barriers (in the form of walls or mounds) can provide significant noise reductions and also reduce both external and internal noise levels. Where space allows, raised earth mounds can be used as noise barriers and can be enhanced by placing a low wall on top. Noise walls are often more feasible than a mound as the footprint is much smaller. These methods are shown in Figure 7-1.

Figure 7-1: Noise barriers



Note: Taken from DP&I *Development near Rail Corridors and Busy Roads – Interim Guideline*.

Noise barriers can, however, result in other impacts such as reduced access to property and utilities, visual impacts, overshadowing, changes to drainage, and safety concerns. These potential impacts need to be considered when determining if installation of noise barriers is justified.

Noise barriers are typically most efficient when receivers are located at ground floor level. As the height of a receiver increases, the noise reduction from barriers reduces due to line of sight over the top of the barrier. Because of this, noise barriers are assessed using noise predictions at ground and first floor only, with at property treatment of individual dwellings being used for higher floors if necessary.

Assessment of noise barriers

The process for determining noise barriers is described in the RNMG. Noise barriers are generally considered where there are four or more closely spaced receivers with exceedances of the RNMG triggers (see Section 4.5.7).

The nearest residential receivers in NCA03, NCA05, NCA06, NCA07, NCA08, NCA10, NCA12 and NCA13 are predicted to experience road traffic noise levels after the proposal is built that exceed the relevant criteria.

Noise barriers would be feasible between the proposed bypass and Southee Road in NCA12 for the 2039 scenario considering Stage 2B. Noise barriers would not be feasible in this area for the 2029 scenario considering Stage 2A, given traffic on Southee Road causes the exceedances and property access requirements prohibits a barrier between residential receivers and Southee Road. Therefore, at-property treatments would likely be the most feasible and feasible mitigation for receivers on Southee Road for the Stage 2A scenario in 2029.

All receivers that are predicted to be eligible for consideration of additional noise mitigation for Stage 2A are also eligible based on Stage 2B. The receivers on Southee Road in NCA12 are generally predicted to exceed the RNCG criteria by 1-5 dB for Stage 2A and 6-8 dB for Stage 2B. Based on the Transport *At-receiver road noise treatment guideline*, this corresponds with treatment package 1 for Stage 2A and treatment package 2 for Stage 2B if at-property treatments are considered. Therefore, there are two potentially feasible mitigation options:

1. Provide at-property treatments based on the higher predicted exceedances for Stage 2B before the Stage 2A proposal opening in 2029. This would provide sufficient mitigation such that no additional treatments are required for Stage 2B in 2039.
2. Provide at-property treatments based on the predicted exceedances for Stage 2A proposal opening in 2029. Investigate additional mitigation requirements, including noise barriers and/or additional at-property treatments, prior to Stage 2B opening in 2039.

Noise barriers in other sections of the study area are also not considered feasible due to trigger receivers being sparsely distributed (ie separated by more than 20 metres as defined in the RNMG) and/or the requirement to maintain existing property access. However, such properties would be eligible for consideration of at-property treatment mitigation (see Section 7.2.3).

The potential effect of noise barriers adjacent to triggered receivers in NCA12 has been assessed for the 2039 Stage 2B scenario based on the noise barrier alignment shown in Figure 7-2.

The optimisation process and assessment of their potential impact on noise levels is detailed in Table 7-3. Appendix D provides more details of the barrier analysis and height optimisation.

Figure 7-2: Indicative noise barriers considered for further investigation



Table 7-3: Assessment of indicative noise barriers

Barrier ID	Noise Barrier Details						Comments
	Type	Length (m)	Height (m)[1]	Triggered Receivers[2]		Reasonable	
				No Barrier	With Barrier		
NW01	New	268	7.5m	22	18	No	The optimised barrier height of 7.5 m does not meet the NMG minimum requirement of 10 dB benefit for barriers over 5.0 m in height. A noise barrier of 4.5 m, roughly consistent with the heights of NW03, reduces the number of at property treatments by two and achieves the minimum requirement of 5 dB benefit for barriers up to 5.0 m in height. The performance of the barrier is noted as being limited by traffic on the existing Southee Road (which is located in-between the barrier and the receivers) which reduces the effectiveness of the noise wall. A 4.5 m noise barrier may be considered reasonable and would be investigated further as the project progresses.
NW02	New	302	6.0m	23	10	No	The optimised barrier height of 6.0 m does not meet the NMG minimum requirement of 10 dB benefit for barriers over 5.0 m in height. A noise barrier of 4.5 m, roughly consistent with the heights of NW03, reduces the number of at property treatments by six and achieves the minimum requirement of 5 dB benefit for barriers up to 5.0 m in height. The performance of the barrier is noted as being limited by traffic on the existing Southee Road (which is located in-between the barrier and the receivers) which reduces the effectiveness of the noise wall. A 4.5 m noise barrier may be considered reasonable and would be investigated further as the project progresses.
NW03	New	481	4.5m	35	8	Yes	The optimised barrier height of 4.5m meets the RNMG minimum requirement of 5dB benefit for barriers up to 5.0 m in height. The optimised barrier reduces the requirement for at property treatment by one floor. The performance of the barrier is noted as being limited by traffic on the existing Southee Road (which is located in-between the barrier and the receivers) which reduces the effectiveness of the noise wall.

Note 1: This reflects the optimised barrier height which is the height that provides the most reasonable noise benefits. The process for determining the optimised barrier height is defined in the RNMG. All recommended barrier heights are subject to further considerations, such as construction limitations, overshadowing, urban design and community preference. Barriers which are lower than the optimised height can still provide appropriate noise benefit and in some cases it may be justified to consider barrier heights that are less than the optimised height.

Note 2: The count of 'Triggered Receivers' represents the number of individual floors (at ground and first level only) of the affected buildings.

The final noise barrier locations and heights for the proposal would be determined during the detailed design stage and would consider factors such as constructability, available space, engineering requirements, utility infrastructure, urban design, overshadowing, community impacts/preference and other constraints including the project stages.

7.2.3 At-Property mitigation – architectural treatments

Residual impacts which remain after the use of at-source and in-corridor mitigation are typically addressed using at property mitigation. At-property mitigation is also considered the most reasonable noise mitigation strategy where receivers are not grouped together or where there is community preference for this measure.

At-property treatment typically involves using architectural treatments to improve building elements such as doors, windows, vents, etc. Installation of boundary acoustic fences or walls close to the receiver can also be considered, which can have the benefit of reducing noise levels in outdoor spaces.

The assessment shows a total of 104 sensitive receiver buildings (114 receiver floors) for Stage 2A and 159 sensitive receiver buildings (180 receiver floors) for Stage 2B are predicted to have exceedances of the RNCG operational road traffic noise criteria, when assuming no 'additional noise mitigation', such as noise barriers. If all proposed noise barriers were constructed to be 4.5 m and at a similar alignment to that modelled, then around 145 receiver floor exceedances would remain for Stage 2B, subject to further investigation during detailed design. These residual impacts would most likely be mitigated using at-property treatment (assuming the 4.5 m noise barriers are built).

Sensitive receivers that are predicted to be impacted by the proposal and have not previously received treatment under the Transport Noise Abatement Program (NAP) would most likely be mitigated using at-property treatment.

The requirements for at-property treatments would be determined using the Transport *At-receiver road noise treatment guideline*. The guideline details the approach for specifying feasible and reasonable at-property treatments for Transport road projects. Five categories of treatment are specified based on the predicted exceedance of the operational road traffic noise criteria (see Appendix D for more details).

The architectural treatments provided by Transport may include:

- Ventilation systems that meet Building Code of Australia fresh air requirements with the windows and doors shut
- Upgraded windows, glazing and solid core doors on the exposed facades of substantial structures only (eg masonry or insulated board cladding each with sealed underfloor)
- Upgrading window and door seals
- The sealing of wall vents
- The sealing of the underfloor below the bearers and appropriately treating sub-floors ventilation
- Roof insulation
- The sealing of eaves.

All noise mitigation works would be undertaken in accordance with the relevant council requirements including any restraints for heritage buildings. Noise mitigation options would be evaluated for each building to identify any considerations which may reduce the effectiveness of the solution (ie heritage open facades or lack of maintenance). Secondary glazing may also be a more appropriate, and possibly the only option for heritage buildings, where existing lead light glazing is to be retained.

The final operational noise mitigation strategy for the proposal would be determined during detailed design. The final approach would consider community preference where appropriate. Inspection and assessment of individual receivers would also be required to determine feasible and reasonable measures where at-property treatment is considered suitable.

Receivers that are identified as being eligible for at-property noise mitigation should be identified and offered treatment prior to the start of construction work that has the potential to affect them, where possible.

Where 'other sensitive' receivers are being considered for at-property treatment, a review of the eligibility and the performance of the existing facade will need to be undertaken prior to determine the appropriate level of treatment to achieve the internal noise criteria.

8. Conclusion

Transport proposes to upgrade Bells Line of Road / Kurrajong Road between Crooked Lane, North Richmond and Old Kurrajong Road, Richmond and construct a new bypass south of Richmond. The proposal would be delivered in two stages, with Stage 2A opening in 2029 and Stage 2B opening in 2039.

Stage 2A includes the new bridge over the Hawkesbury River, widening of Bells Line of Road and the new bypass of Richmond from the intersection of Bells Line of Road and Old Kurrajong Road to the intersection of Castlereagh Road and Southee Road.

Stage 2B includes the continuation of the bypass between Castlereagh Road and Londonderry Road, including a new connection to Southee Road.

This report describes the existing noise environment in the study area, outlines the method used in the assessment and identifies the likely impacts from construction and operation of the proposal on the nearby sensitive receivers. Where impacts are predicted, appropriate measures have been recommended to mitigate and manage the impacts.

Construction noise and vibration

The nearest residential receivers to the proposal are predicted to be subject to 'highly intrusive' worst-case noise impacts at certain times, particularly when noise intensive equipment such as concrete saws are in use near to receivers. These worst-case impacts are, however, generally limited to a relatively small number of the nearest residential receivers. Residential receivers which are further back are also predicted to be impacted by the proposal during noisy construction work, but to a lesser degree.

Certain work may result in traffic restrictions and would be required to occur outside Standard Construction Hours to minimise potential traffic disruption. The noise impacts during these evening and night-time work are predicted to be increased compared to daytime work due to more stringent criteria, however, the requirement for night-time work is expected to be relatively minimal.

The main potential source of vibration during construction of the proposal would be from vibratory rollers. The nearest receivers to the proposal are likely to be within the minimum working distances for cosmetic damage and human comfort.

The proposal would apply all feasible and reasonable work practices to reduce the potential noise and vibration impacts and a number of strategies have been recommended. The exact strategies would be determined during development of a Construction Noise and Vibration Management Plan prior to construction work commencing.

Operational road traffic noise

The proposal would realign sections of Bells line of Road including the new Richmond Bridge and construct a new bypass south of Richmond. The proposal is predicted to alter operational road traffic noise levels for receivers along the bypass, but generally remain the similar along Bells Line of Road. Noise levels are predicted to increase at receivers along the bypass.

Exceedances of the relevant criteria are predicted at the nearest residential receivers to both stages of the proposal. These exceedances are generally due to a mixture of increasing noise levels, exceedances of the cumulative limit criteria and acute road traffic noise levels.

For Stage 2A, a total of 104 receiver buildings (101 residential and 3 'other sensitive' buildings) are predicted to experience noise levels that exceed the operational road traffic noise criteria and have been identified as being eligible for consideration of additional noise mitigation.

For Stage 2B, a total of 159 receiver buildings (142 residential and 17 'other sensitive' buildings) are predicted to experience noise levels that exceed the operational road traffic noise criteria and have been identified as being eligible for consideration of additional noise mitigation. The receivers predicted to exceed the criteria for Stage 2B include all receivers that are predicted to exceed for Stage 2A.

The use of noise barriers around Southee Road, along with at property treatment of sensitive receivers with residual impacts, is considered feasible noise mitigation for Stage 2B of the proposal. However, the noise barrier assessment found that the performance of the proposed barriers is limited by residual traffic on Southee Road which reduces the effectiveness of the barriers. The final noise mitigation strategy would be determined during detailed design noting that Stage 2A is expected to be operational 10 years before Stage 2B.

Appendix A: Acoustic terminology

Sound Level or Noise Level

The terms 'sound' and 'noise' are almost interchangeable, except that 'noise' often refers to unwanted sound.

Sound (or noise) consists of minute fluctuations in atmospheric pressure. The human ear responds to changes in sound pressure over a very wide range with the loudest sound pressure to which the human ear can respond being ten million times greater than the softest. The decibel (abbreviated as dB) scale reduces this ratio to a more manageable size by the use of logarithms.

The symbols SPL, L or LP are commonly used to represent Sound Pressure Level. The symbol LA represents A-weighted Sound Pressure Level. The standard reference unit for Sound Pressure Levels expressed in decibels is 2 x 10-5 Pa.

'A' Weighted Sound Pressure Level

The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an 'A-weighting' filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

People's hearing is most sensitive to sounds at mid frequencies (500 Hz to 4,000 Hz), and less sensitive at lower and higher frequencies. Different sources having the same dBA level generally sound about equally loud.

A change of 1 dB or 2 dB in the level of a sound is difficult for most people to detect, whilst a 3 dB to 5 dB change corresponds to a small but noticeable change in loudness. A 10 dB change corresponds to an approximate doubling or halving in loudness. The table below lists examples of typical noise levels.

Sound Pressure Level (dBA)	Typical Source	Subjective Evaluation
130	Threshold of pain	Intolerable
120	Heavy rock concert	Extremely noisy
110	Grinding on steel	
100	Loud car horn at 3 m	Very noisy
90	Construction site with pneumatic hammering	
80	Kerbside of busy street	Loud
70	Loud radio or television	
60	Department store	Moderate to quiet
50	General Office	
40	Inside private office	Quiet to very quiet
30	Inside bedroom	
20	Recording studio	Almost silent

Other weightings (eg B, C and D) are less commonly used than A-weighting. Sound Levels measured without any weighting are referred to as 'linear', and the units are expressed as dB(lin) or dB.

Sound Power Level

The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit 10-12 W.

The relationship between Sound Power and Sound Pressure is similar to the effect of an electric radiator, which is characterised by a power rating but has an effect on the surrounding environment that can be measured in terms of a different parameter, temperature.

Statistical Noise Levels

Sounds that vary in level over time, such as road traffic noise and most community noise, are commonly described in terms of the statistical exceedance levels L_{AN}, where LAN is the A-weighted sound pressure level exceeded for N% of a given measurement period. For example, the L_{A1} is the noise level exceeded for 1% of the time, L_{A10} the noise exceeded for 10% of the time, and so on.

The following figure presents a hypothetical 15 minute noise survey, illustrating various common statistical indices of interest.

Of particular relevance, are:

L_{A1} The noise level exceeded for 1% of the 15 minute interval.

L_{A10} The noise level exceeded for 10% of the 15 minute interval. This is commonly referred to as the average maximum noise level.

L_{A90} The noise level exceeded for 90% of the sample period. This noise level is described as the average minimum background sound level (in the absence of the source under consideration), or simply the background level.

L_{Aeq} The A-weighted equivalent noise level (basically, the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound.

Frequency Analysis

Frequency analysis is the process used to examine the tones (or frequency components) which make up the overall noise or vibration signal.

The units for frequency are Hertz (Hz), which represent the number of cycles per second.

Frequency analysis can be in:

- Octave bands (where the centre frequency and width of each band is double the previous band)
- 1/3 octave bands (three bands in each octave band)
- Narrow band (where the spectrum is divided into 400 or more bands of equal width)

The following figure shows a 1/3 octave band frequency analysis where the noise is dominated by the 200 Hz band. Note that the indicated level of each individual band is less than the overall level, which is the logarithmic sum of the bands.

Annoying Noise (Special Audible Characteristics)

A louder noise will generally be more annoying to nearby receivers than a quieter one. However, noise is often also found to be more annoying and result in larger impacts where the following characteristics are apparent:

- Tonality - tonal noise contains one or more prominent tones (ie differences in distinct frequency components between adjoining octave or 1/3 octave bands), and is normally regarded as more annoying than 'broad band' noise.
- Impulsiveness - an impulsive noise is characterised by one or more short sharp peaks in the time domain, such as occurs during hammering.
- Intermittency - intermittent noise varies in level with the change in level being clearly audible. An example would include mechanical plant cycling on and off.
- Low Frequency Noise - low frequency noise contains significant energy in the lower frequency bands, which are typically taken to be in the 10 to 160 Hz region.

Vibration

Vibration may be defined as cyclic or transient motion. This motion can be measured in terms of its displacement, velocity or acceleration. Most assessments of human response to vibration or the risk of damage to buildings use measurements of vibration velocity. These may be expressed in terms of 'peak' velocity or 'rms' velocity.

The former is the maximum instantaneous velocity, without any averaging, and is sometimes referred to as 'peak particle velocity', or PPV. The latter incorporates 'root mean squared' averaging over some defined time period.

Vibration measurements may be carried out in a single axis or alternatively as triaxial measurements (ie vertical, longitudinal and transverse).

The common units for velocity are millimetres per second (mm/s). As with noise, decibel units can also be used, in which case the reference level should always be stated. A vibration level V, expressed in mm/s can be converted to decibels by the formula 20 log (V/Vo), where Vo is the reference level (10-9 m/s). Care is required in this regard, as other reference levels may be used.

Human Perception of Vibration

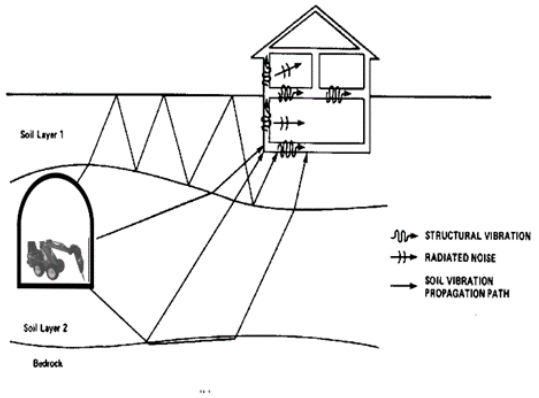
People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience and expectations, and on other connotations associated with the perceived source of the vibration. For example, the vibration that a person responds to as 'normal' in a car, bus or train is considerably higher than what is perceived as 'normal' in a shop, office or dwelling.

Ground-borne Noise, Structure-borne Noise and Regenerated Noise

Noise that propagates through a structure as vibration and is radiated by vibrating wall and floor surfaces is termed 'structure borne noise', 'ground-borne noise' or 'regenerated noise'. This noise originates as vibration and propagates between the source and receiver through the ground and/or building structural elements, rather than through the air.

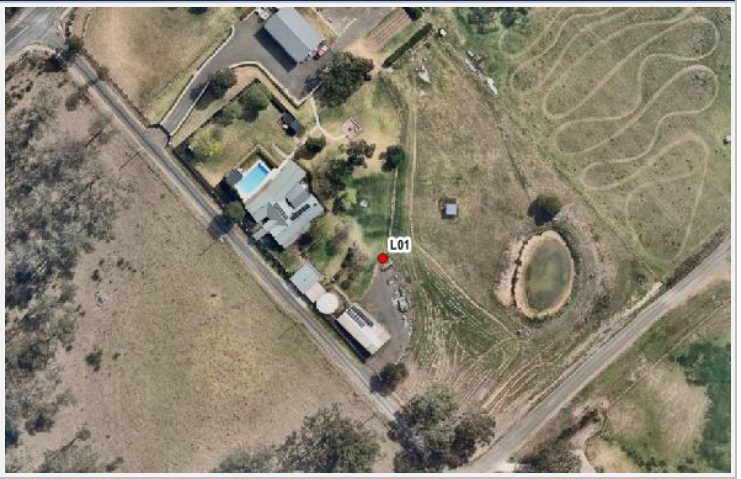
Typical sources of ground-borne or structure-borne noise include tunnelling works, underground railways, excavation plant (eg rockbreakers), and building services plant (eg fans, compressors and generators).

The following figure presents an example of the various paths by which vibration and ground-borne noise may be transmitted between a source and receiver for construction activities occurring within a tunnel.



The term 'regenerated noise' is also used in other instances where energy is converted to noise away from the primary source. One example would be a fan blowing air through a discharge grill. The fan is the energy source and primary noise source. Additional noise may be created by the aerodynamic effect of the discharge grill in the airstream. This secondary noise is referred to as regenerated noise.

Appendix B: Noise monitoring results

Noise Monitoring Location	L.01	Map of Noise Monitoring Location
Noise Monitoring Address	1 Douglass Street, North Richmond	

Logger Device Type: Svantek 957, Logger Serial No: 27578

Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004635

Ambient noise logger deployed at 1 Douglas Street, North Richmond. Logger located on fence line of paddock around 450m North east of Bells Line of Road.

Attended noise measurements indicate the ambient noise environment at this location is controlled by local road construction. Natural noise sources such as birds and wind also contribute to the L_{Aeq} at this location. Traffic along Bells Line of Road faintly audible.

Recorded Noise Levels (LAmax) 11/09/2023:

Distant Traffic – 40 to 48 dBA
Construction – 35 to 61 dBA
Birds – 60 to 66 dBA

Ambient Noise Logging Results ICNG Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	36	48	47	55
Evening	40	46	48	52
Night-time	30	45	44	49

Ambient Noise Logging Results RNP Defined Time Periods

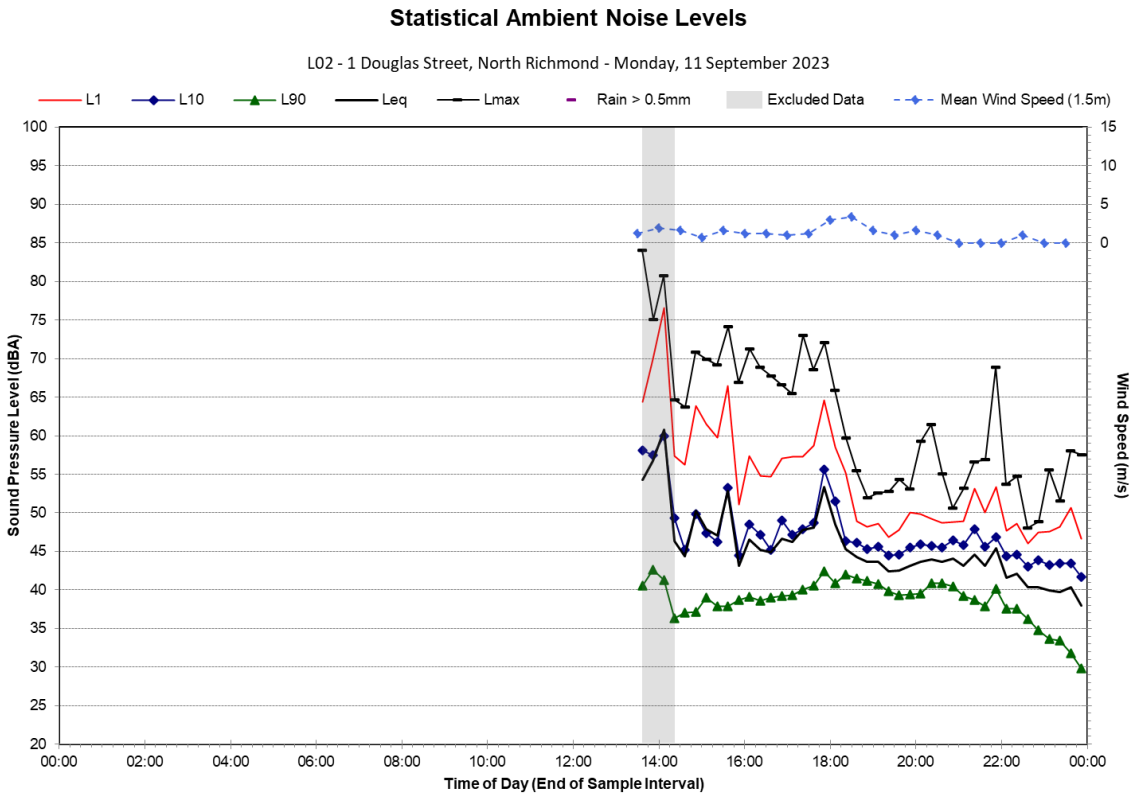
Monitoring Period	Noise Level (dBA)	
	LAeq(period)	LAeq(1hour)
Daytime (7am-10pm)	47	49
Night-time (10pm-7am)	45	50

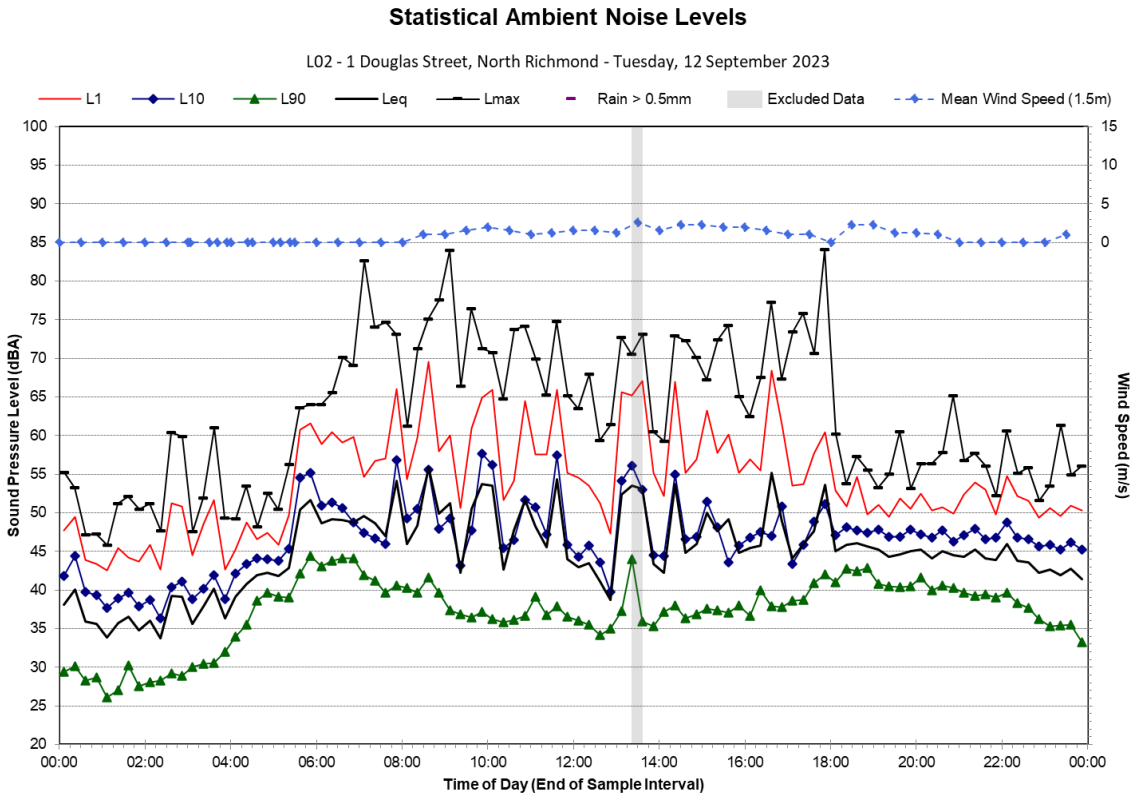
Attended Noise Measurement Results

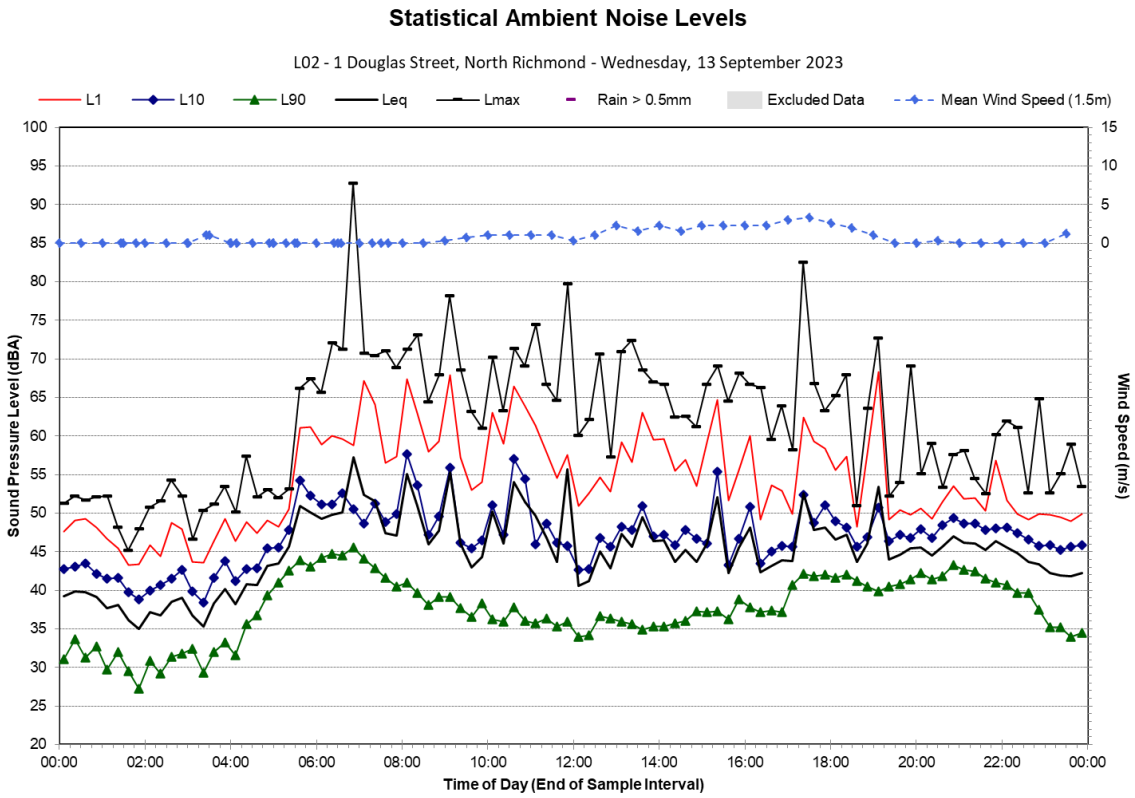
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmax
11/09/2023	13:14	39	55	72

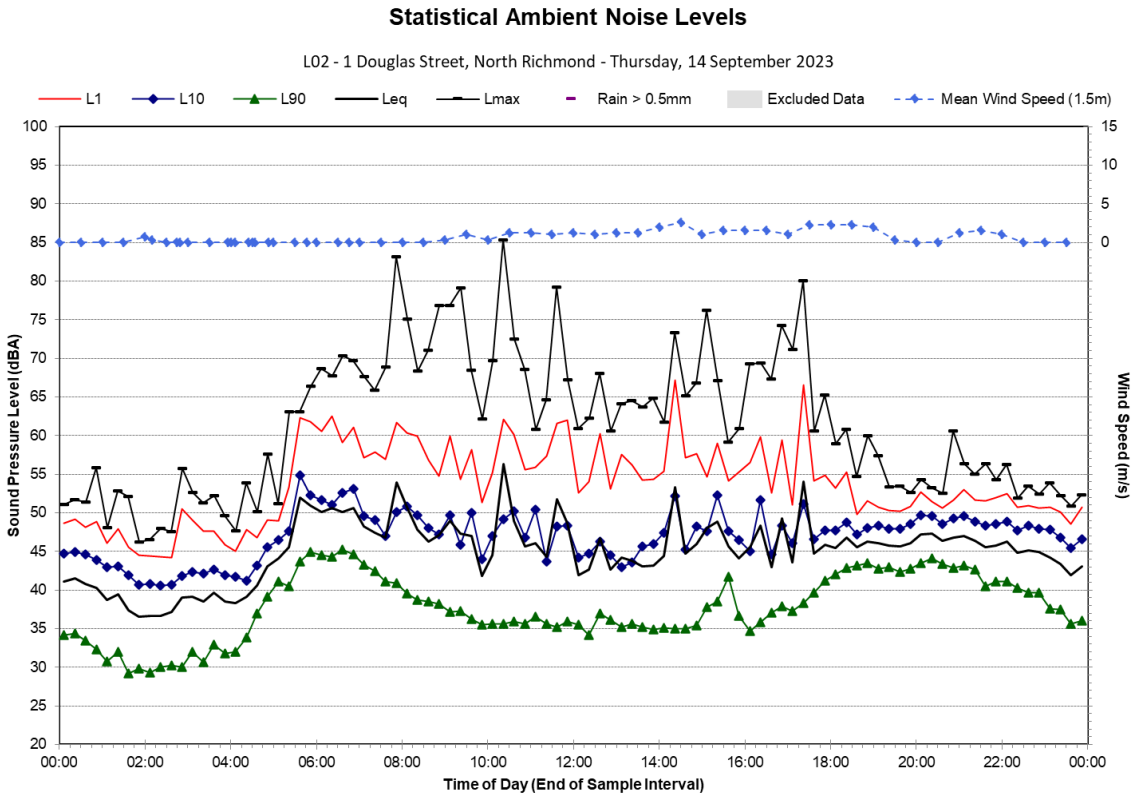
Photo of Noise Monitoring Location

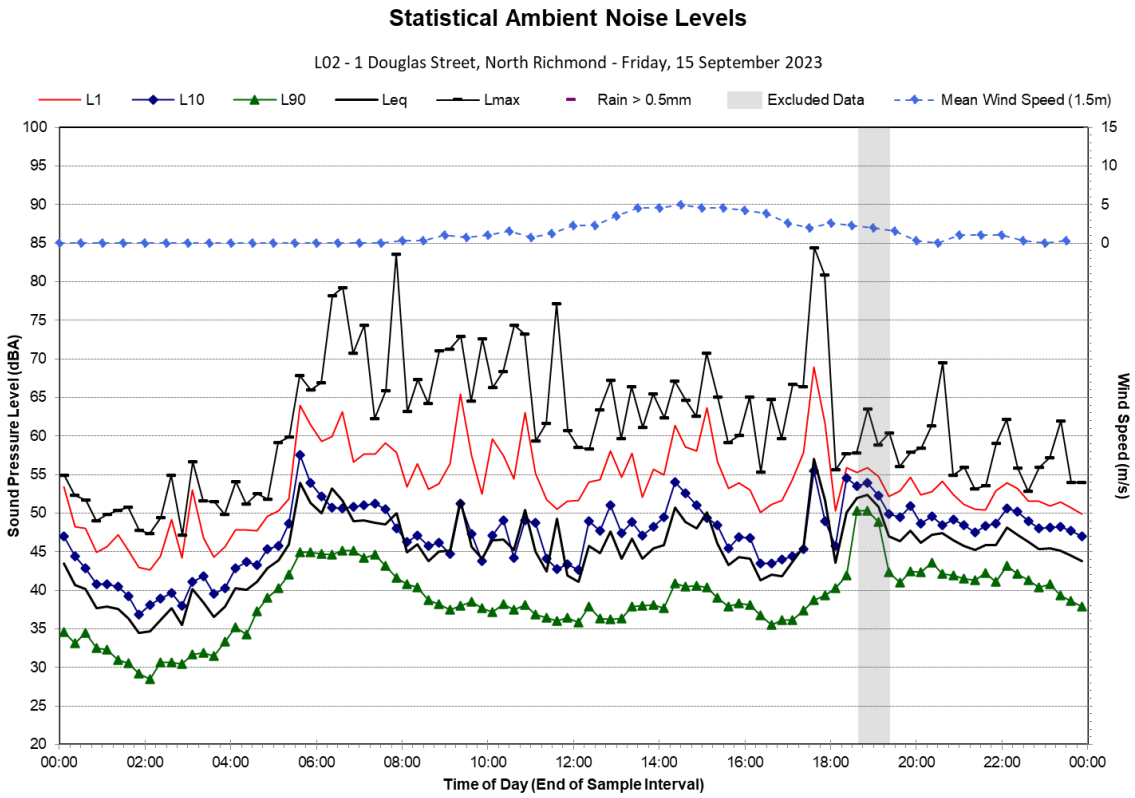


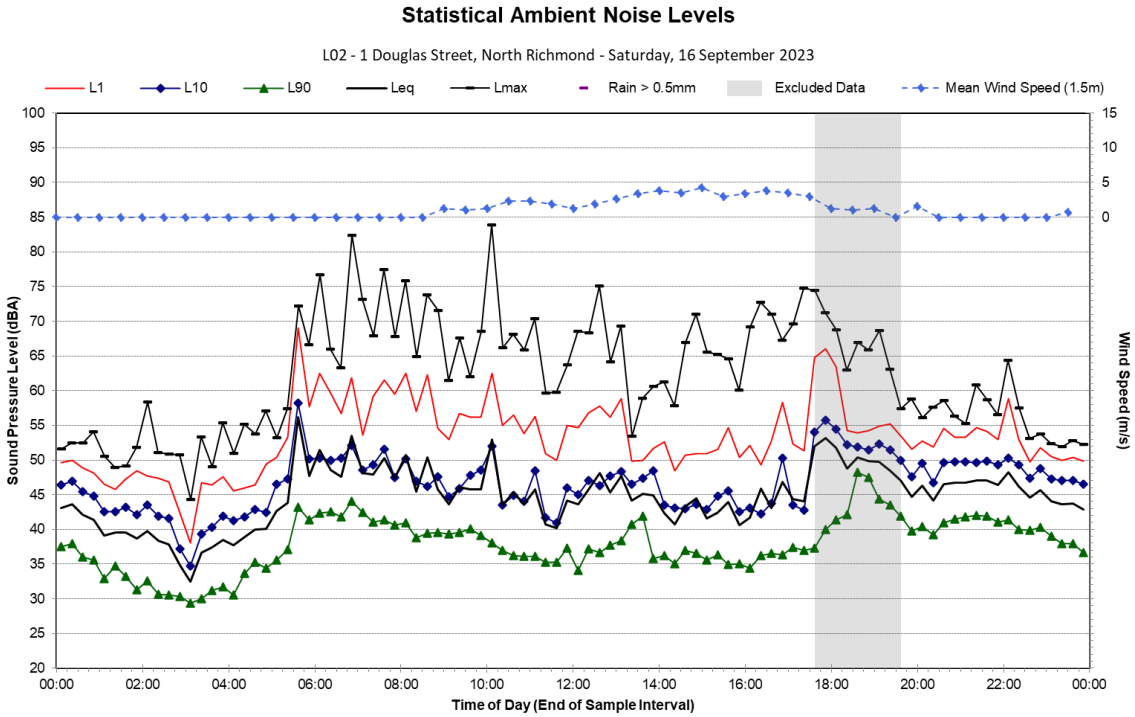

Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Monday, 11 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

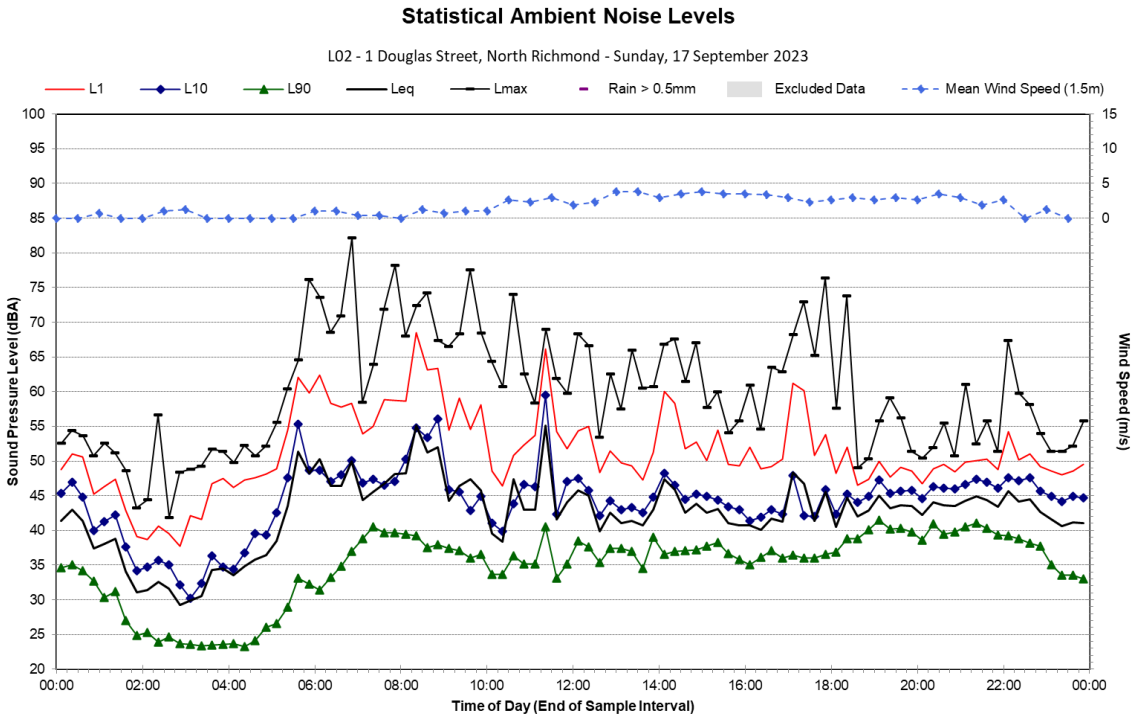

Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Tuesday, 12 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

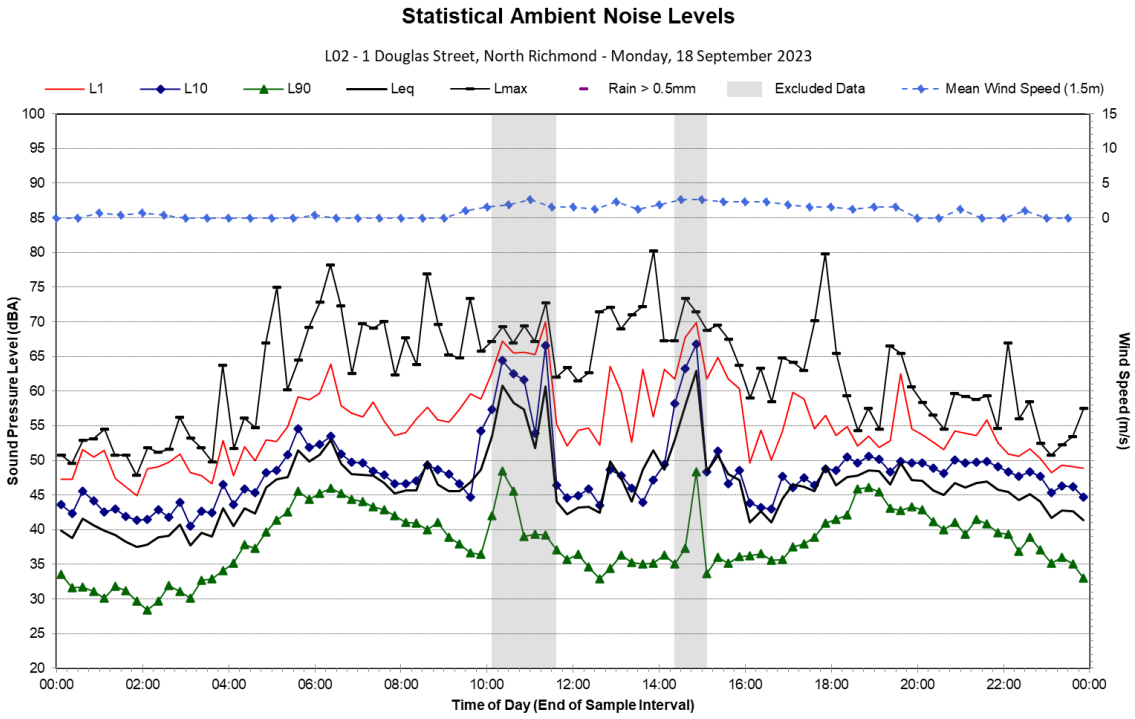

Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Wednesday, 13 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

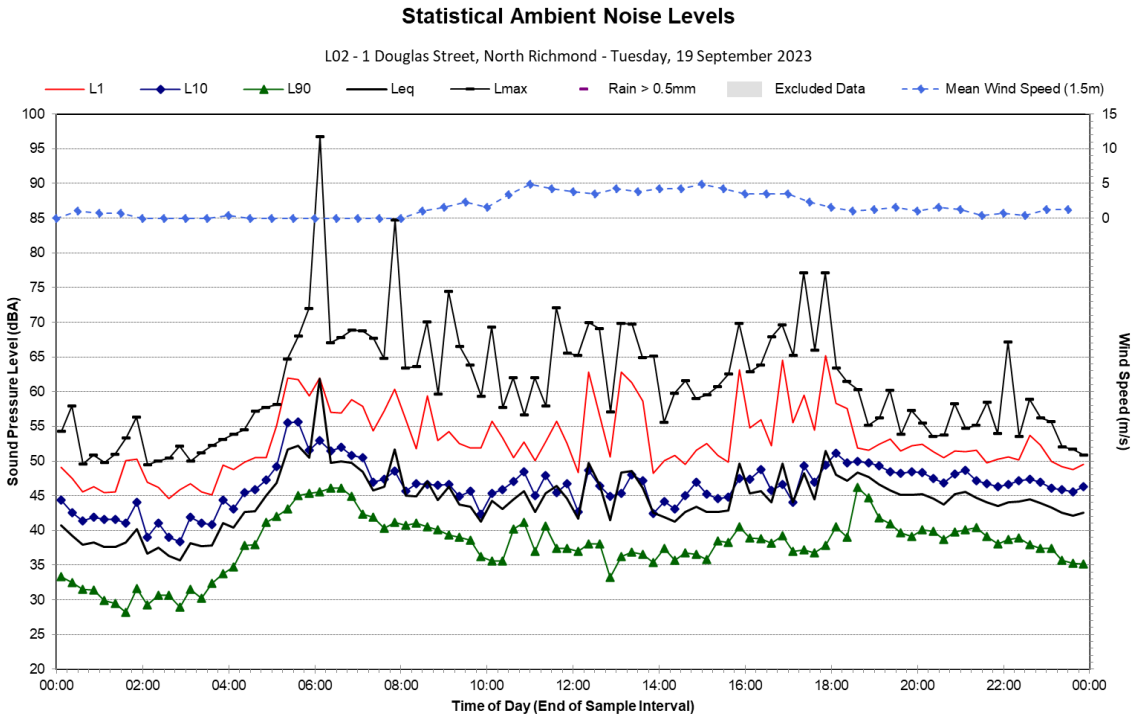

Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Thursday, 14 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

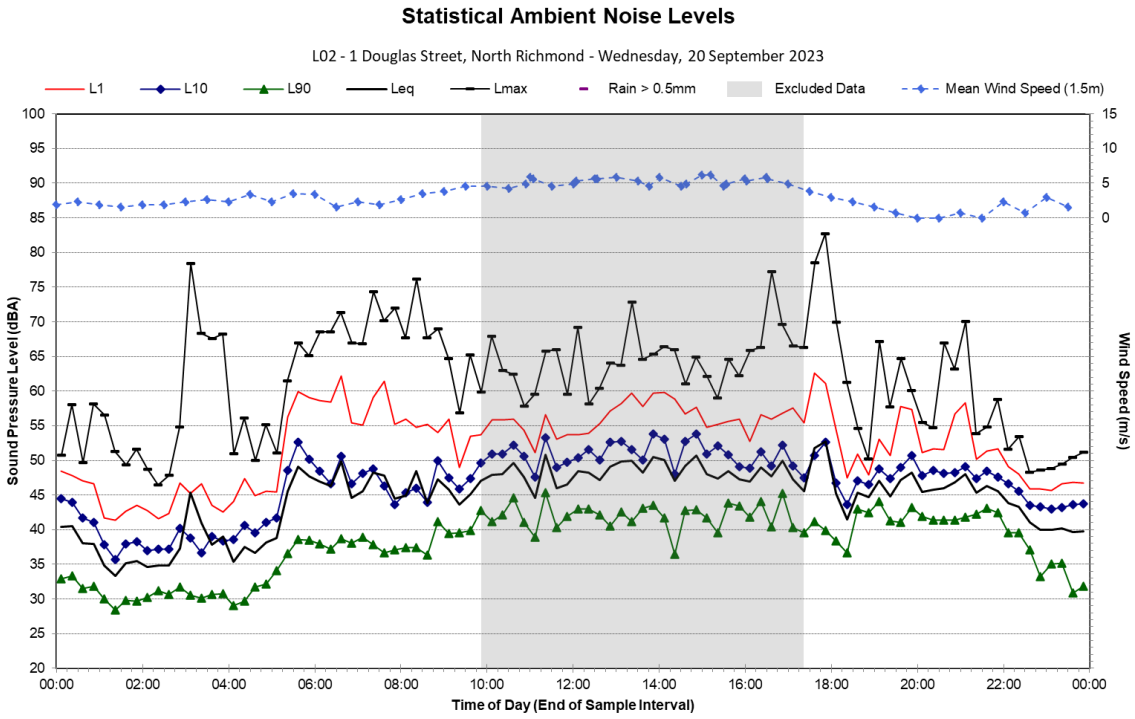

Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Friday, 15 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

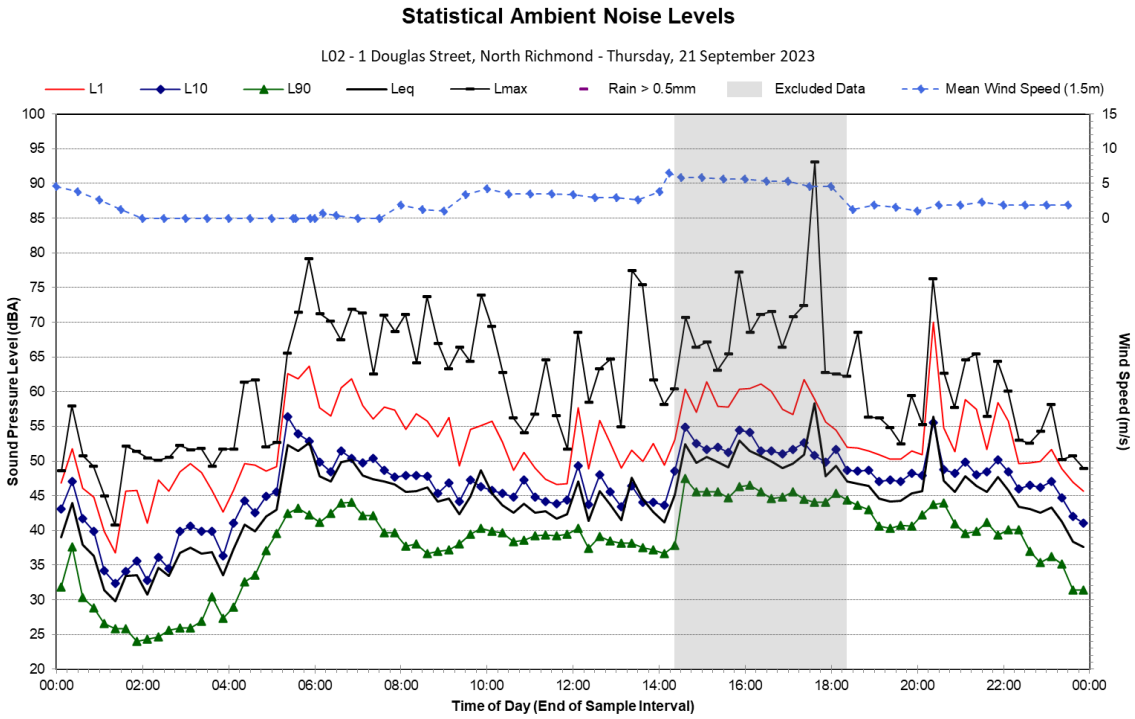

Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Saturday, 16 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

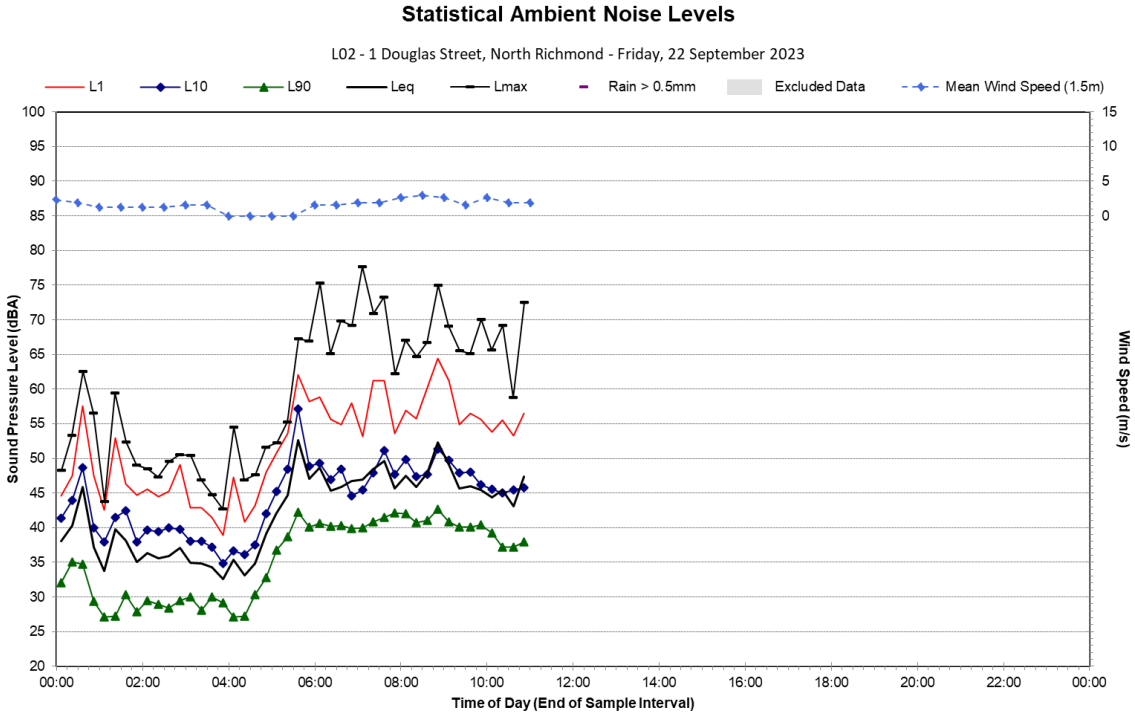

Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Sunday, 17 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Monday, 18 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Tuesday, 19 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Wednesday, 20 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Thursday, 21 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 1 Douglas Street, North Richmond - Friday, 22 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Noise Monitoring Location	L.02
Noise Monitoring Address	**12 Grose Vale Road, North Richmond**

Logger Device Type: Svantek 977, Logger Serial No: 27578

Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004635

Ambient noise logger deployed at 12 Grose Vale Road, North Richmond (North Richmond family Medical Practice). Logger located on fence line of the northern boundary.

Attended noise measurements indicate the ambient noise environment at this location is controlled by road traffic noise.

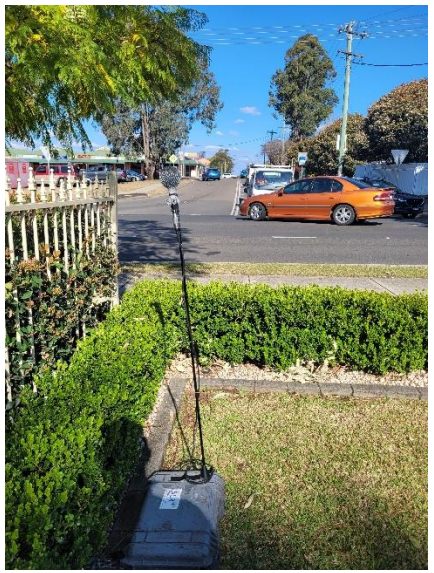
Recorded Noise Levels (LAmax) 11/09/2023:

Light vehicles- generally 65 to 70 dBA
Heavy Vehicles – 70 to 81 dBA
Bike – 85 dBA
Distant Traffic ~ 57 dBA

Map of Noise Monitoring Location



Photo of Noise Monitoring Location



Ambient Noise Logging Results – ICNG Defined Time Periods

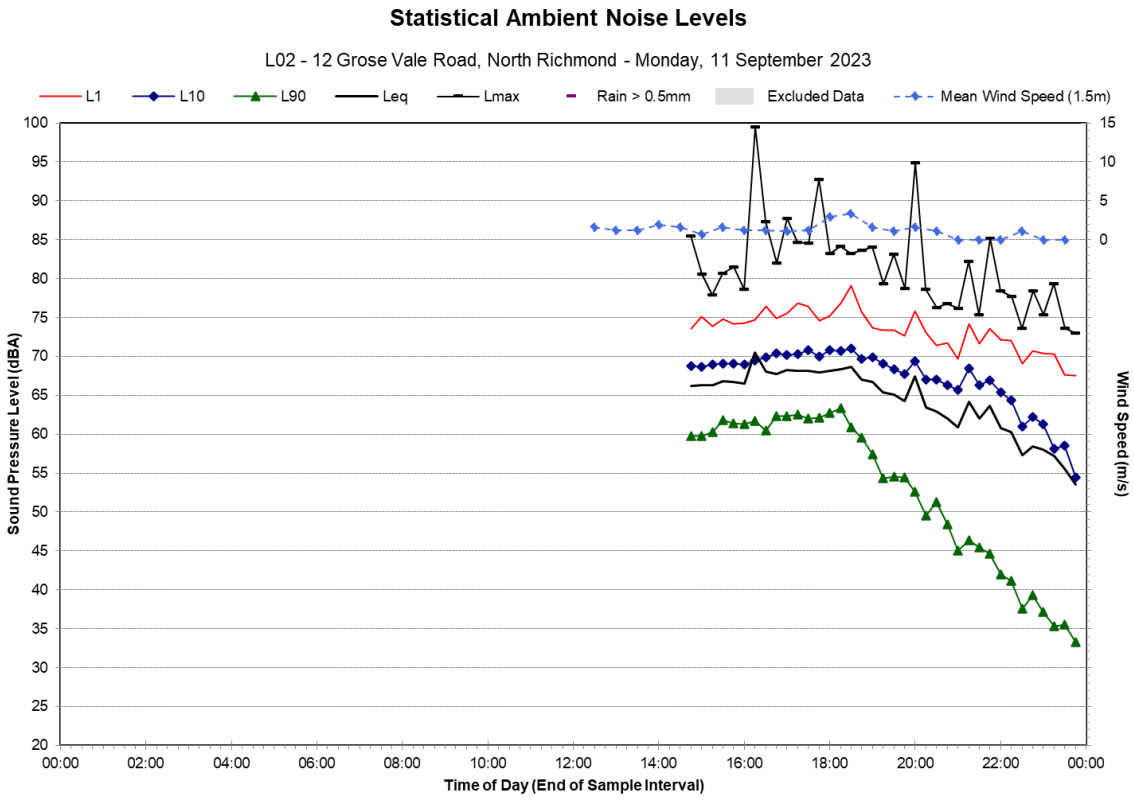
Monitoring Period	**Noise Level (dBA)**			
	RBL	**LAeq**	**L10**	**L1**
Daytime	58	67	69	75
Evening	47	66	68	73
Night-time	32	63	61	70

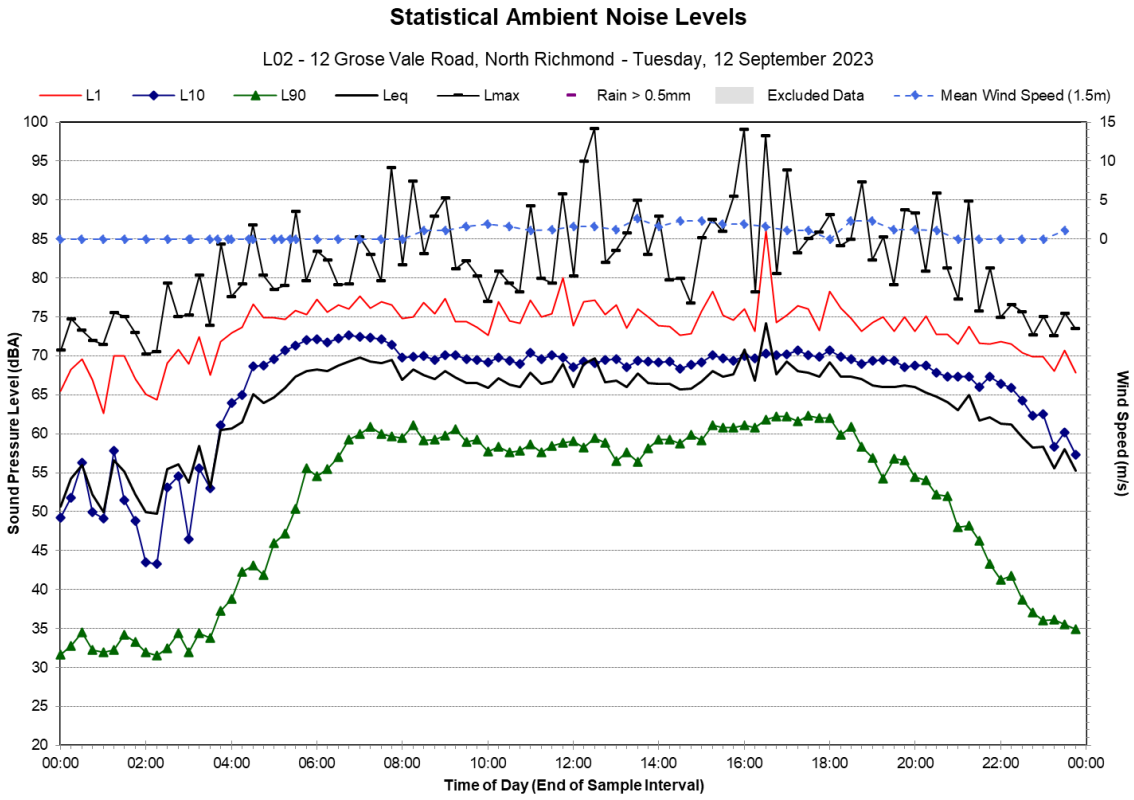
Ambient Noise Logging Results – RNP Defined Time Periods

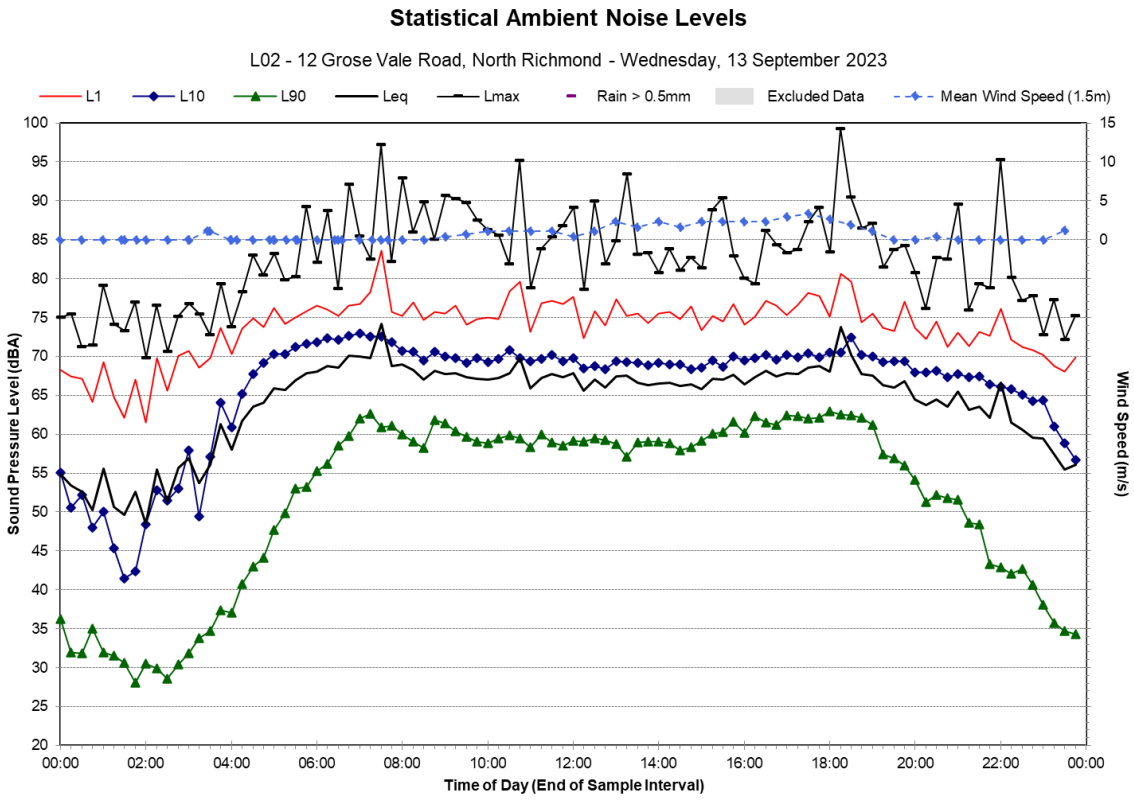
Monitoring Period	**Noise Level (dBA)**	
	LAeq(period)	**LAeq**(1hour)
Daytime (7am-10pm)	67	68
Night-time (10pm-7am)	63	68

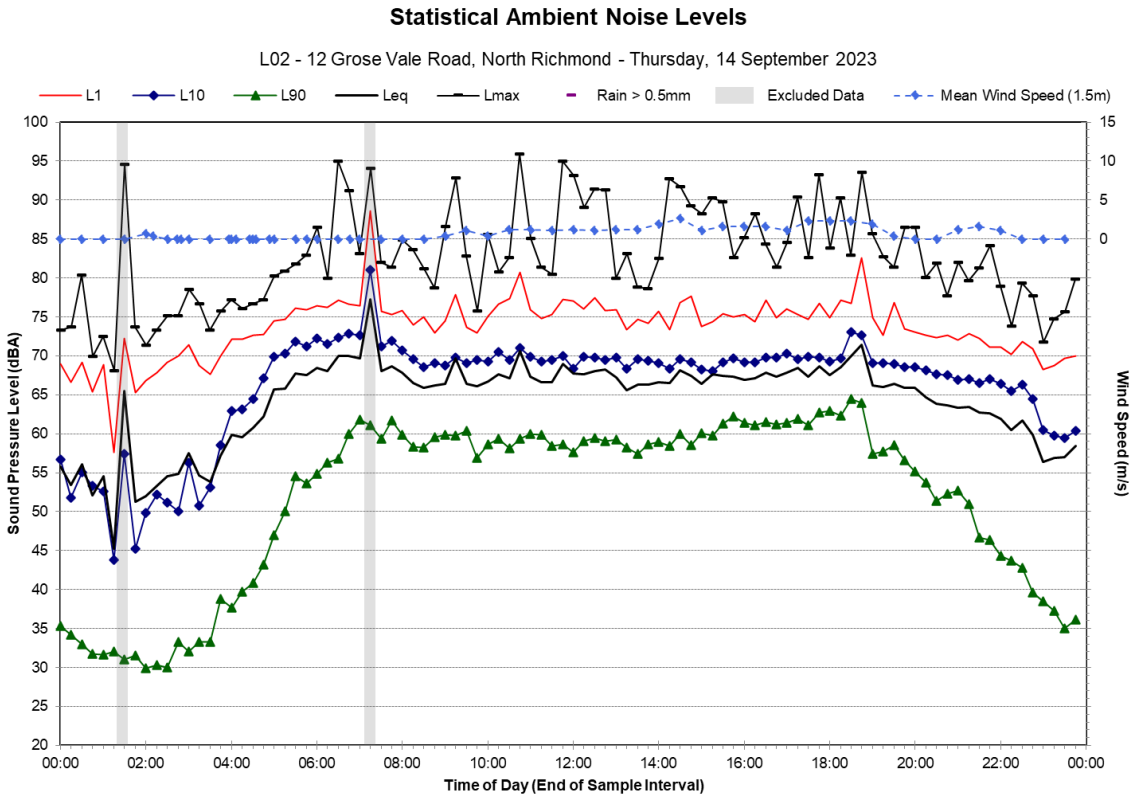
Attended Noise Measurement Results

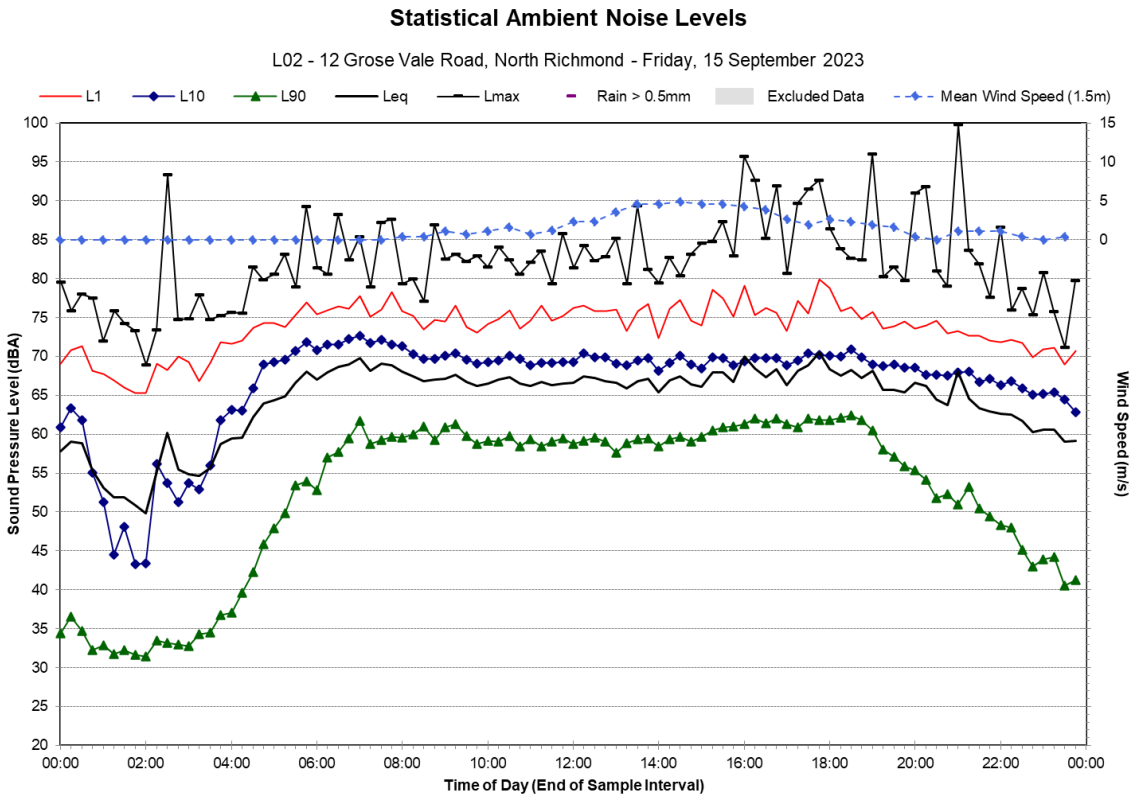
Date	**Start Time**	**Measured Noise Level (dBA)**		
		LA90	**LAeq**	**LAmax**
11/09/2023	14:22	60	67	85

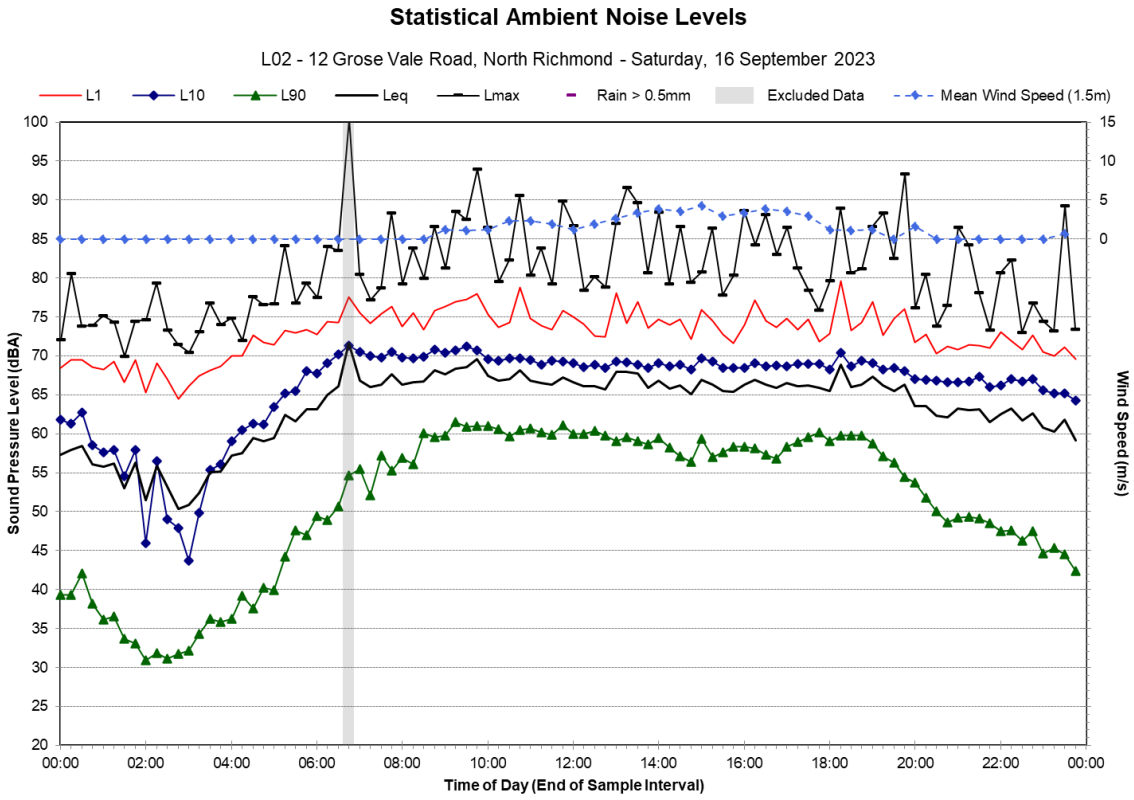

Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Monday, 11 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

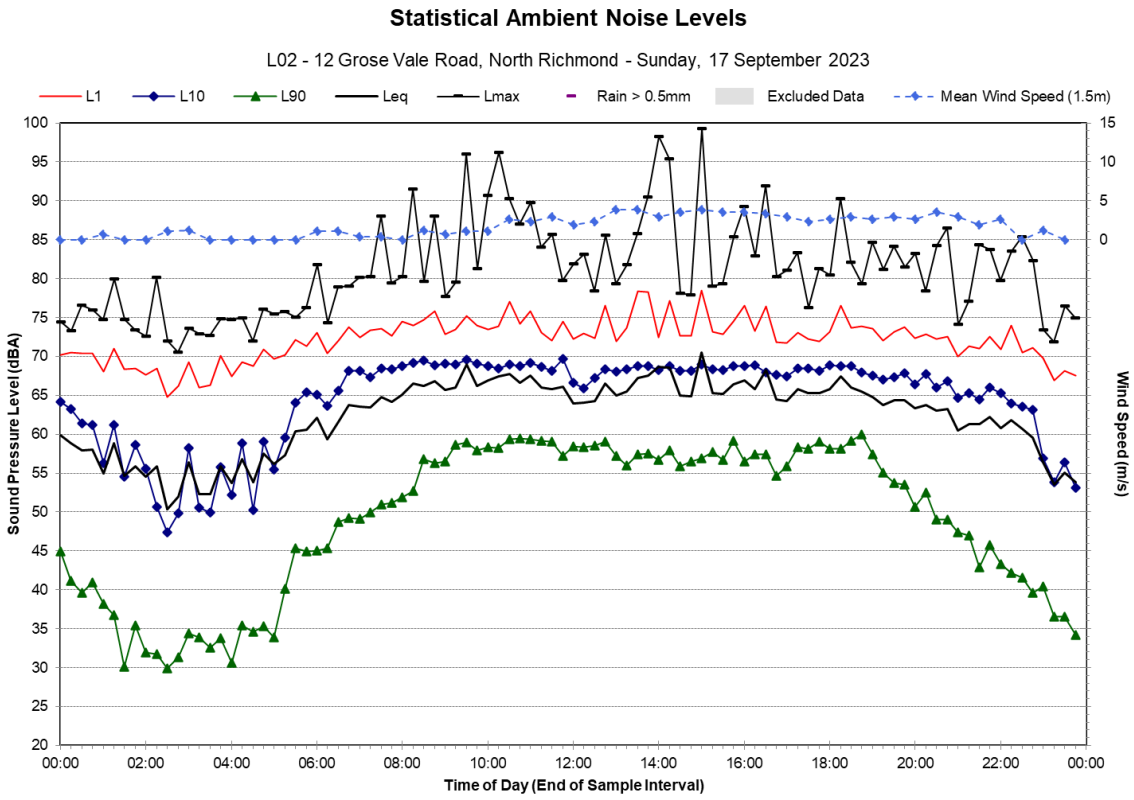

Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Tuesday, 12 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

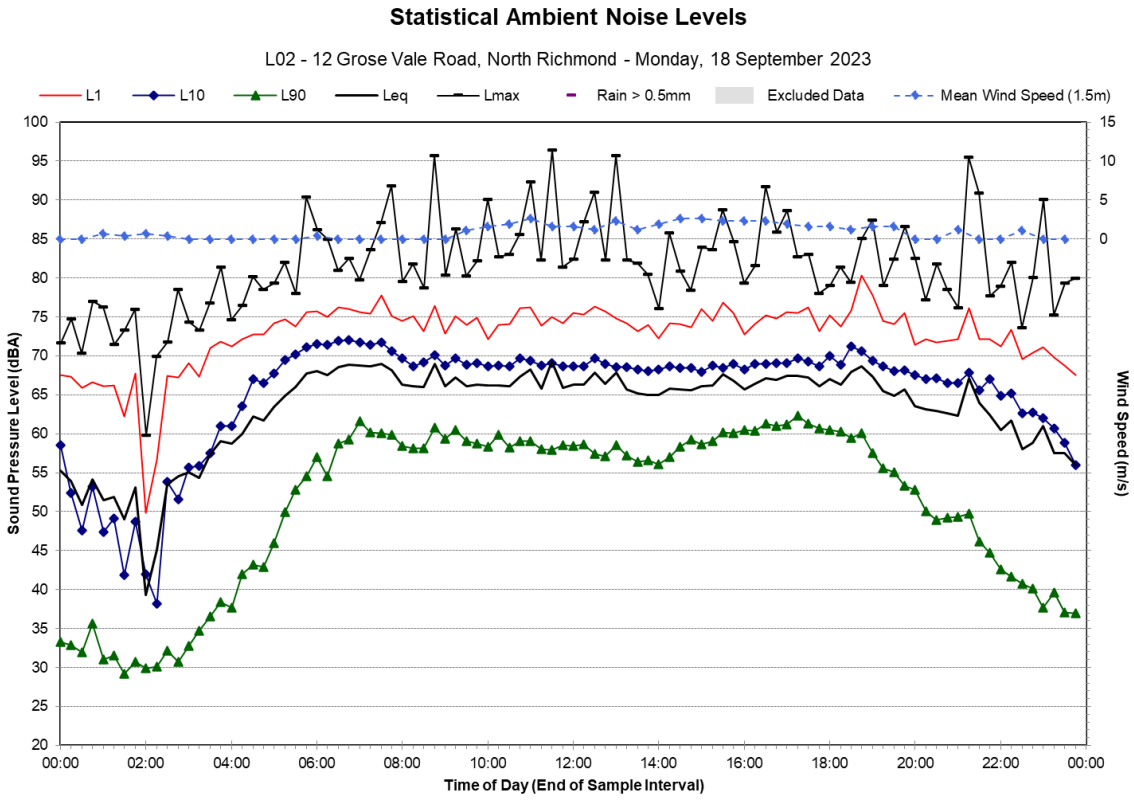

Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Wednesday, 13 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

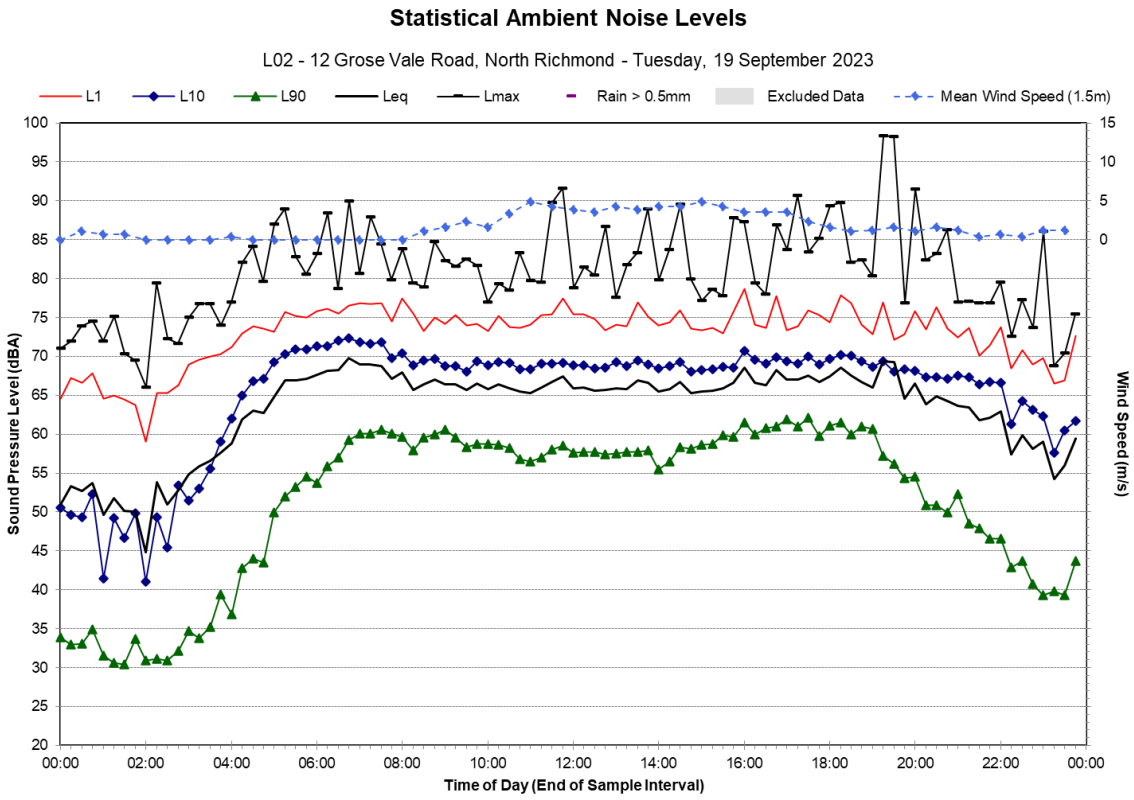

Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Thursday, 14 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

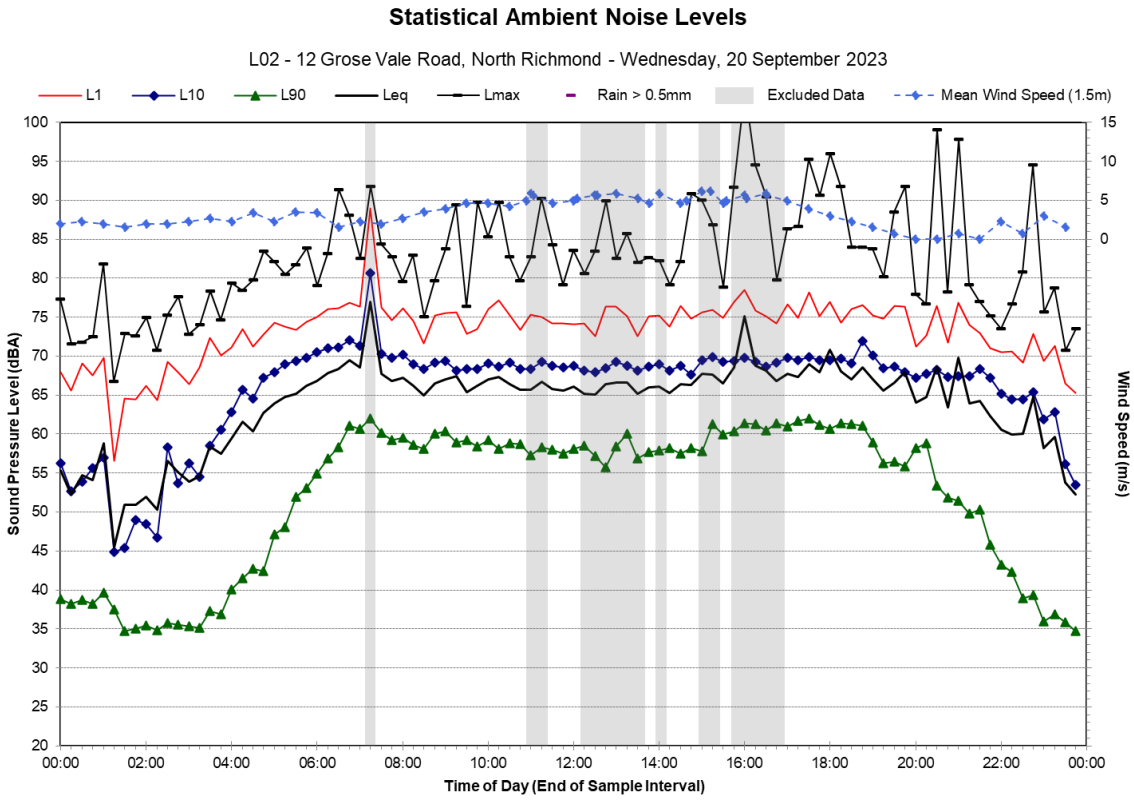

Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Friday, 15 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

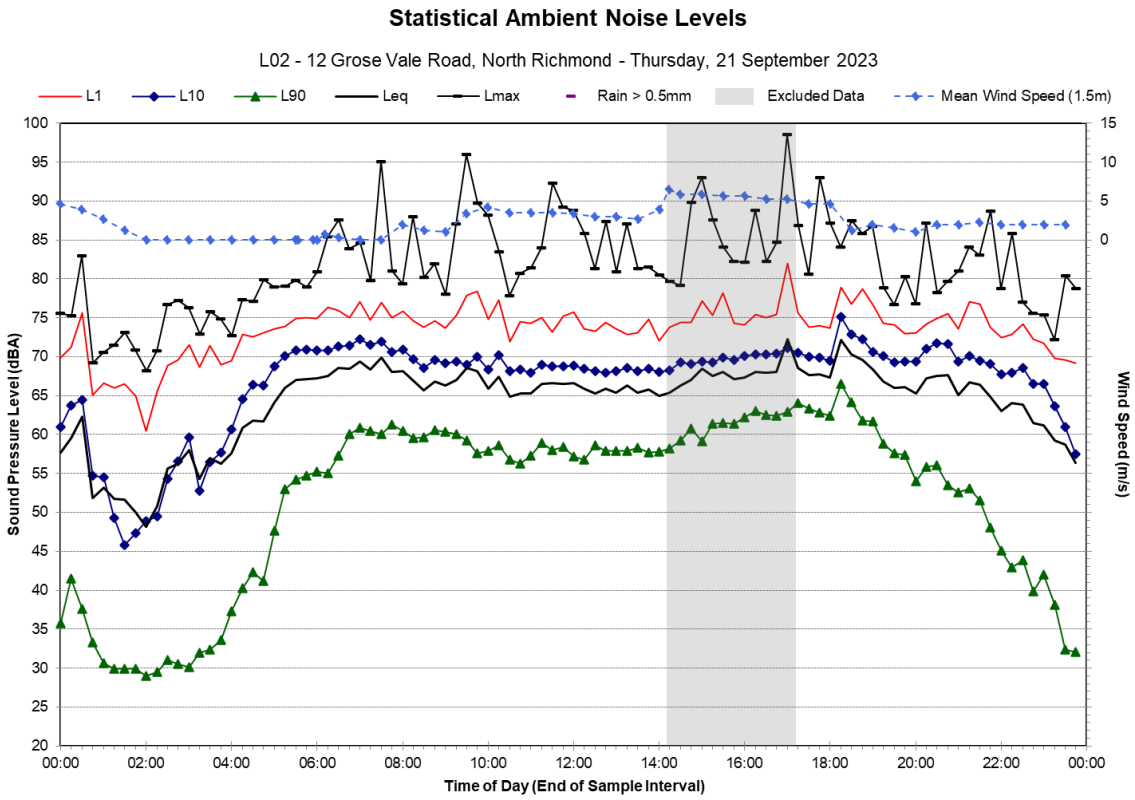

Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Saturday, 16 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

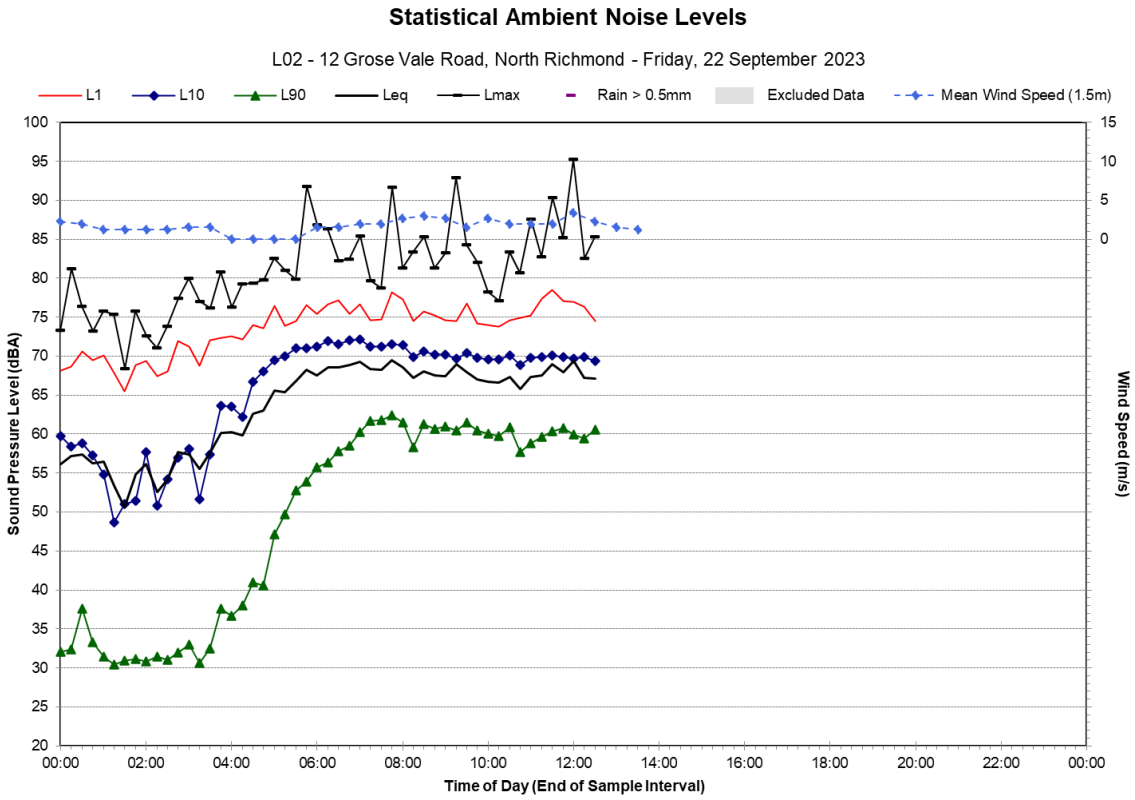

Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Sunday, 17 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Monday, 18 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Tuesday, 19 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Wednesday, 20 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Thursday, 21 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L02 - 12 Grose Vale Road, North Richmond - Friday, 22 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Noise Monitoring Location	L.03
Noise Monitoring Address	**19 Terrace Road, North Richmond**

Logger Device Type: Svantek 957, Logger Serial No: 20667

Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004635

Ambient noise logger deployed at 19 Terrace Road, North Richmond. Logger located on fence line of front fenceline to Terrace Road

Attended noise measurements indicate the ambient noise environment at this location is controlled by road traffic noise.

Recorded Noise Levels (LAmax) 11/09/2023:

Light Vehicles – 70 to 75 dBA
Heavy Vehicles – 75 to 83 dBA
Distant Traffic - ~ 40 to 57 dBA
Birds – 40 to 48 dBA

Map of Noise Monitoring Location



Ambient Noise Logging Results – ICNG Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	41	66	70	75
Evening	42	63	67	74
Night-time	31	60	51	70

Ambient Noise Logging Results – RNP Defined Time Periods

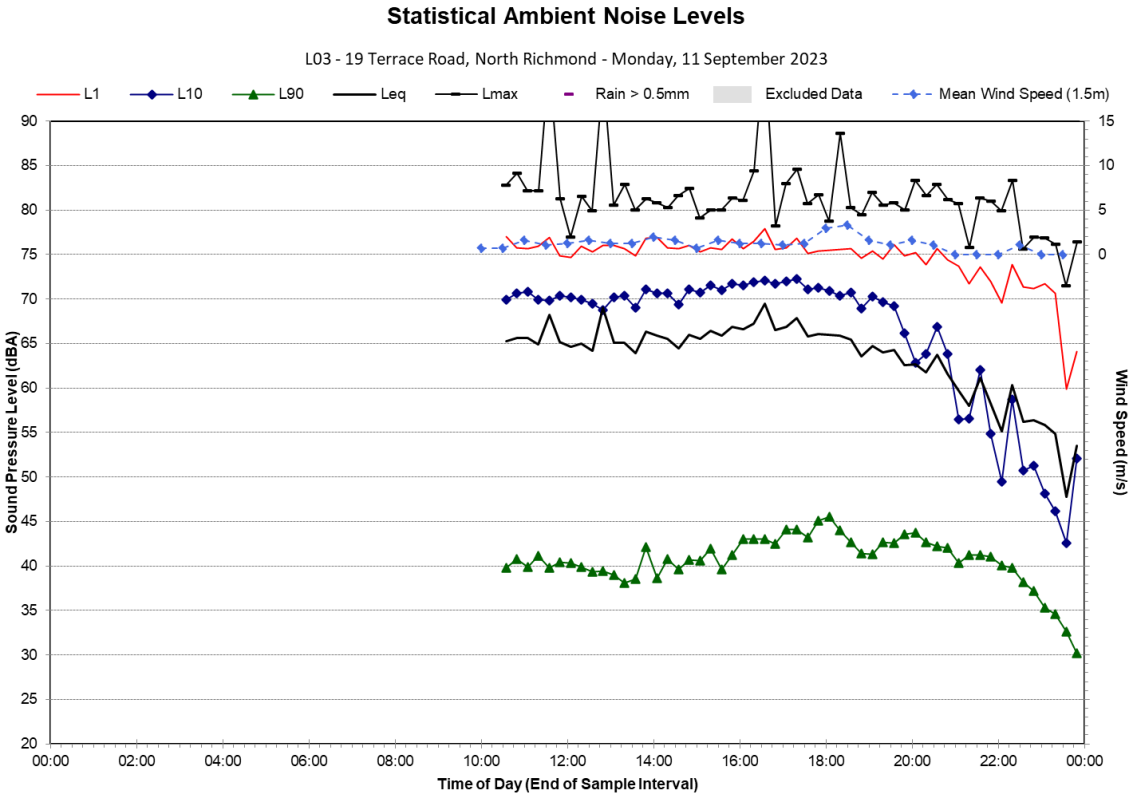
Monitoring Period	Noise Level (dBA)	
	LAeq(period)	LAeq(1hour)
Daytime (7am-10pm)	65	67
Night-time (10pm-7am)	60	65

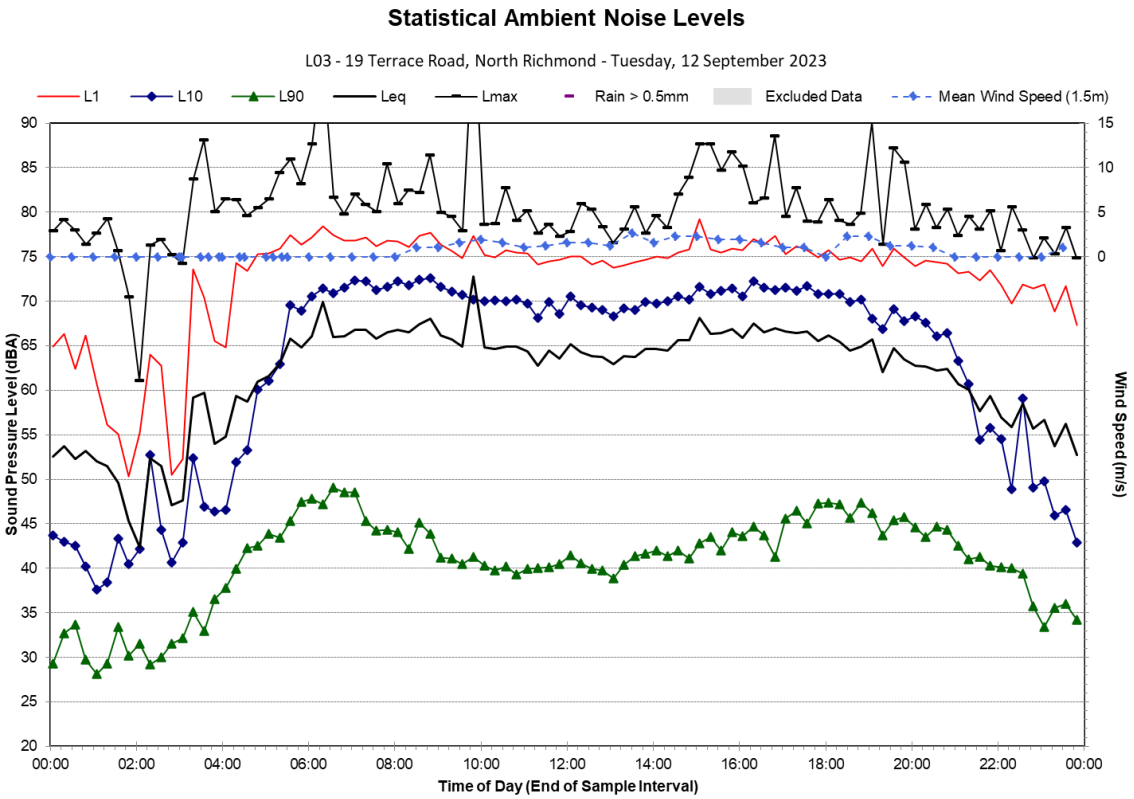
Attended Noise Measurement Results

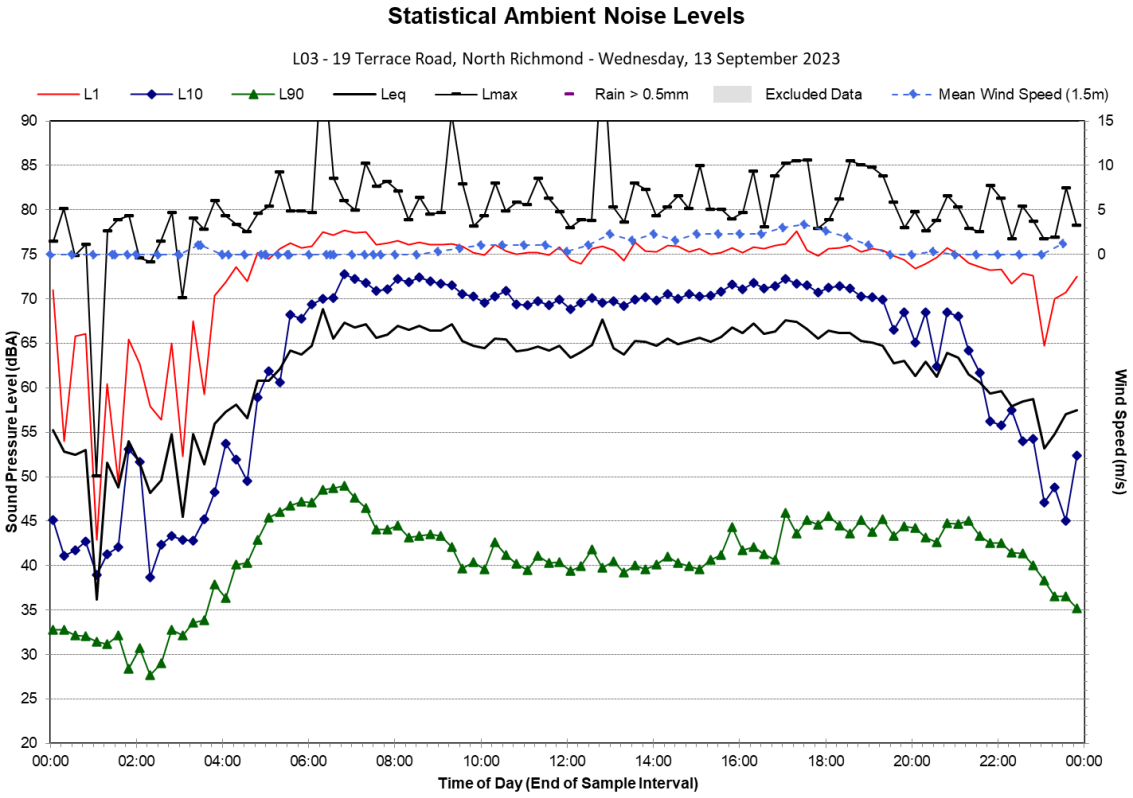
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmax
11/09/2023	10:11	40	67	83

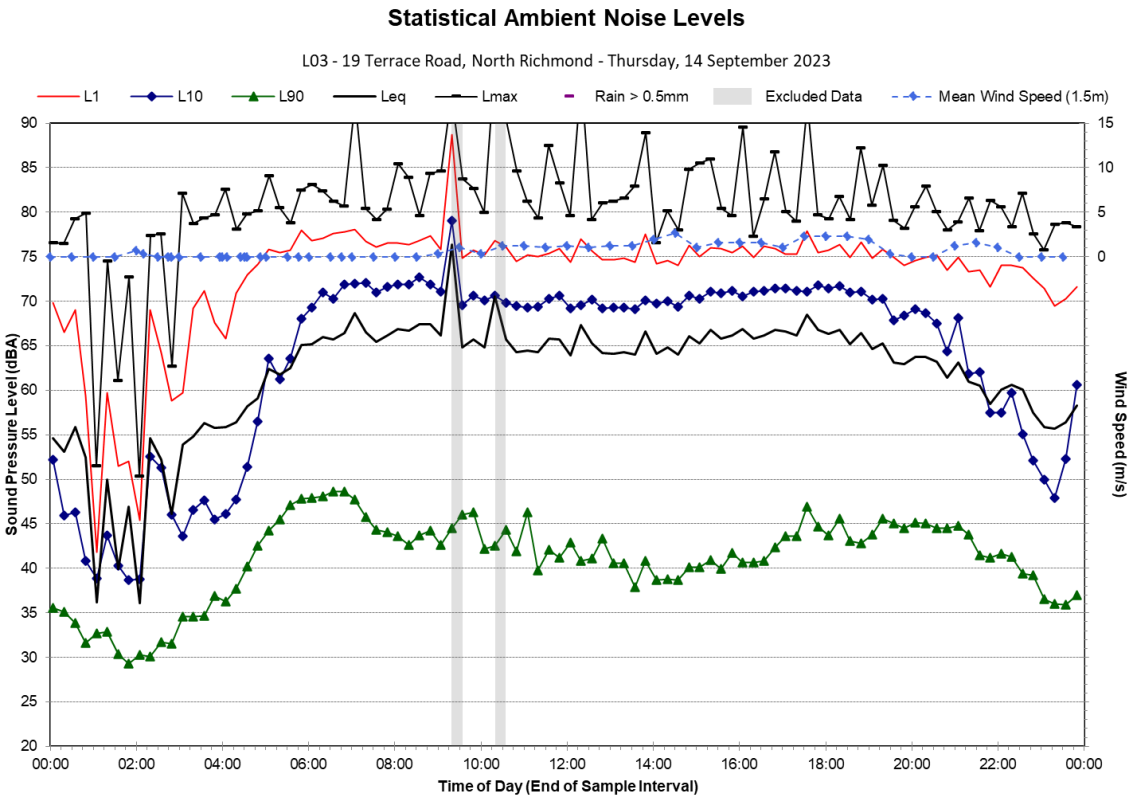
Photo of Noise Monitoring Location

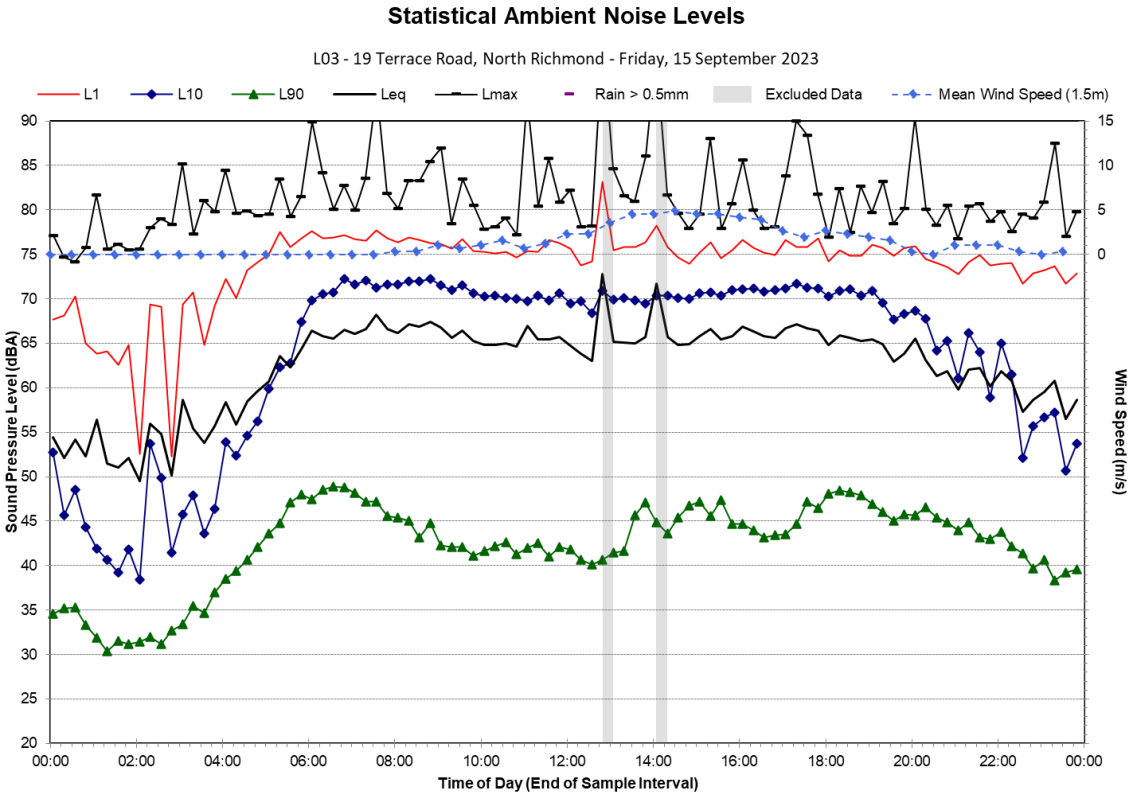


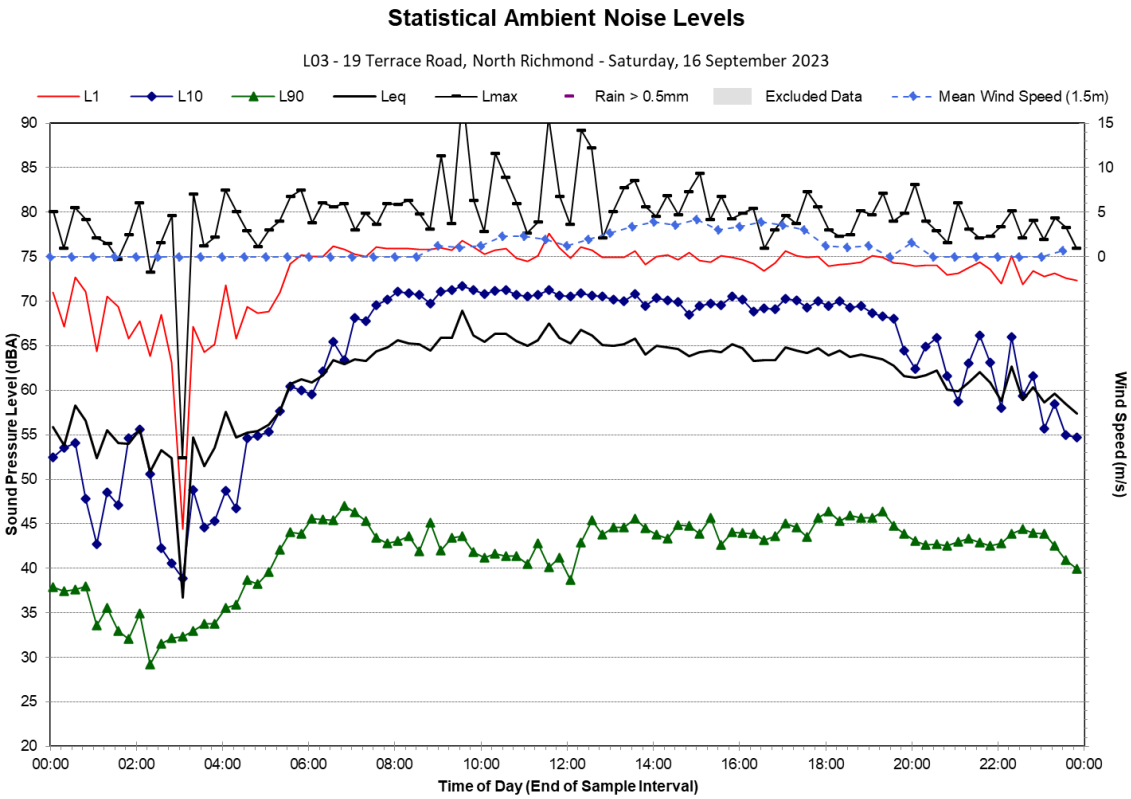

Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Monday, 11 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

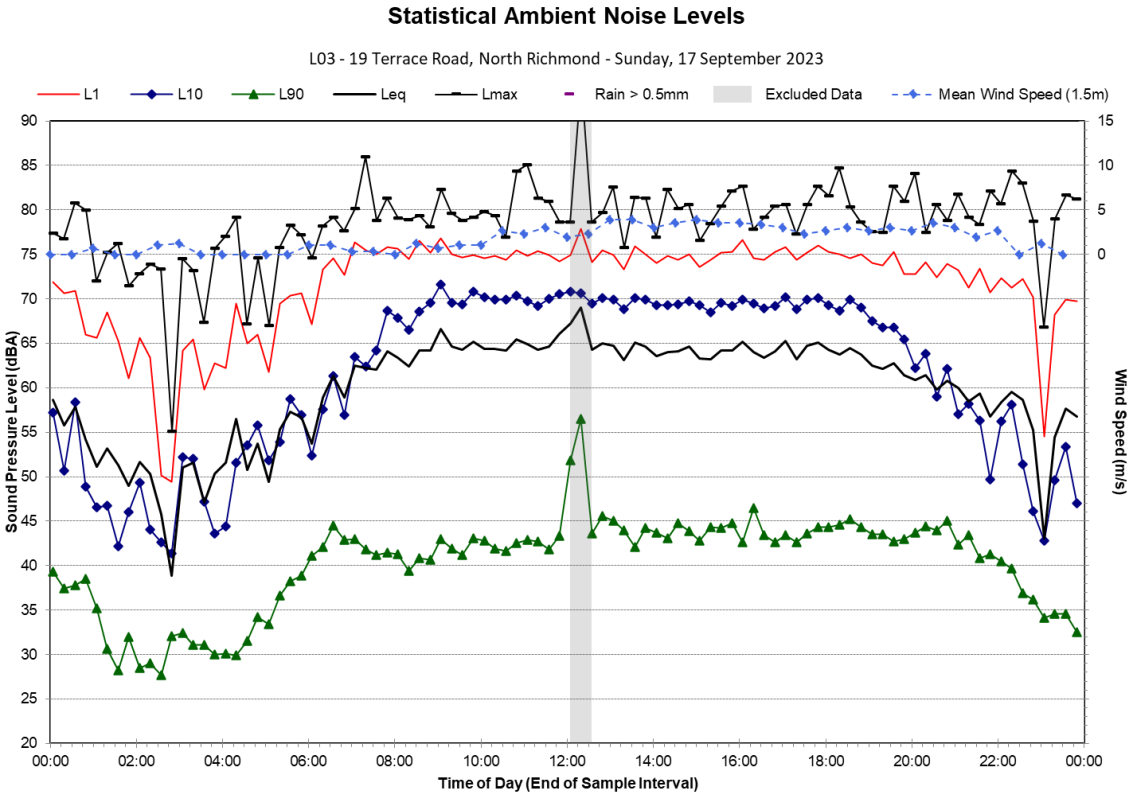

Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Tuesday, 12 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

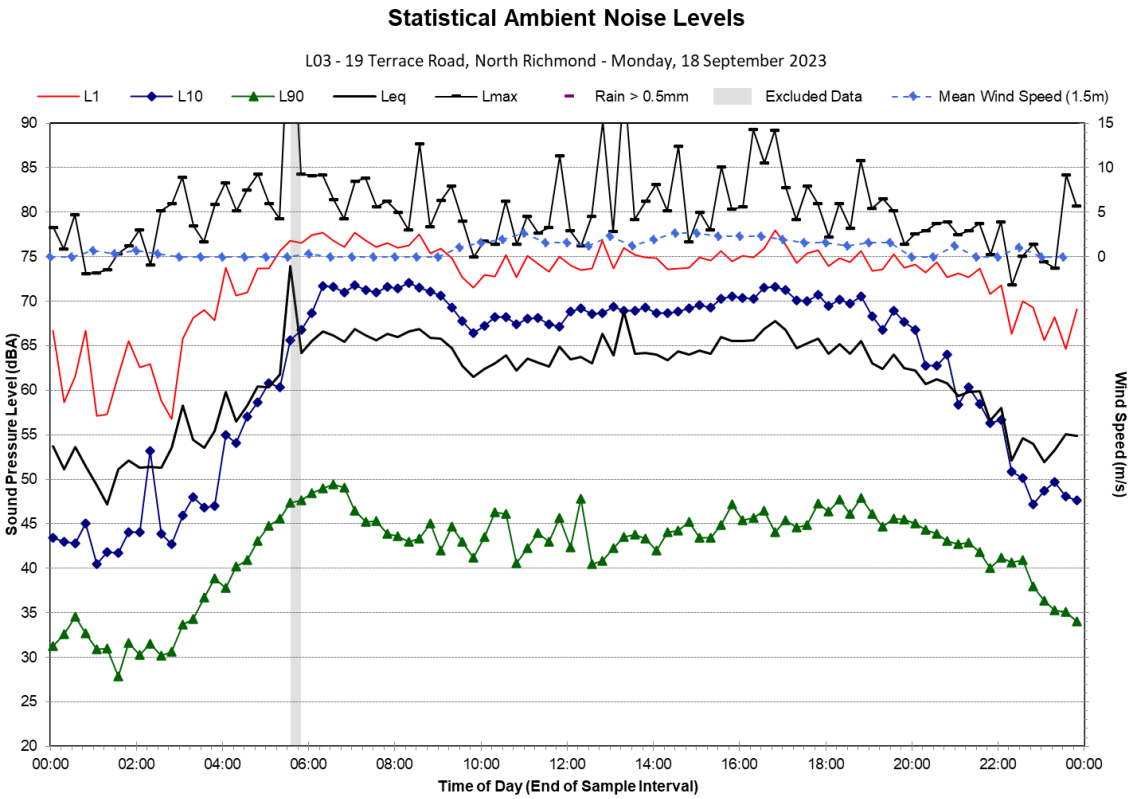

Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Wednesday, 13 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

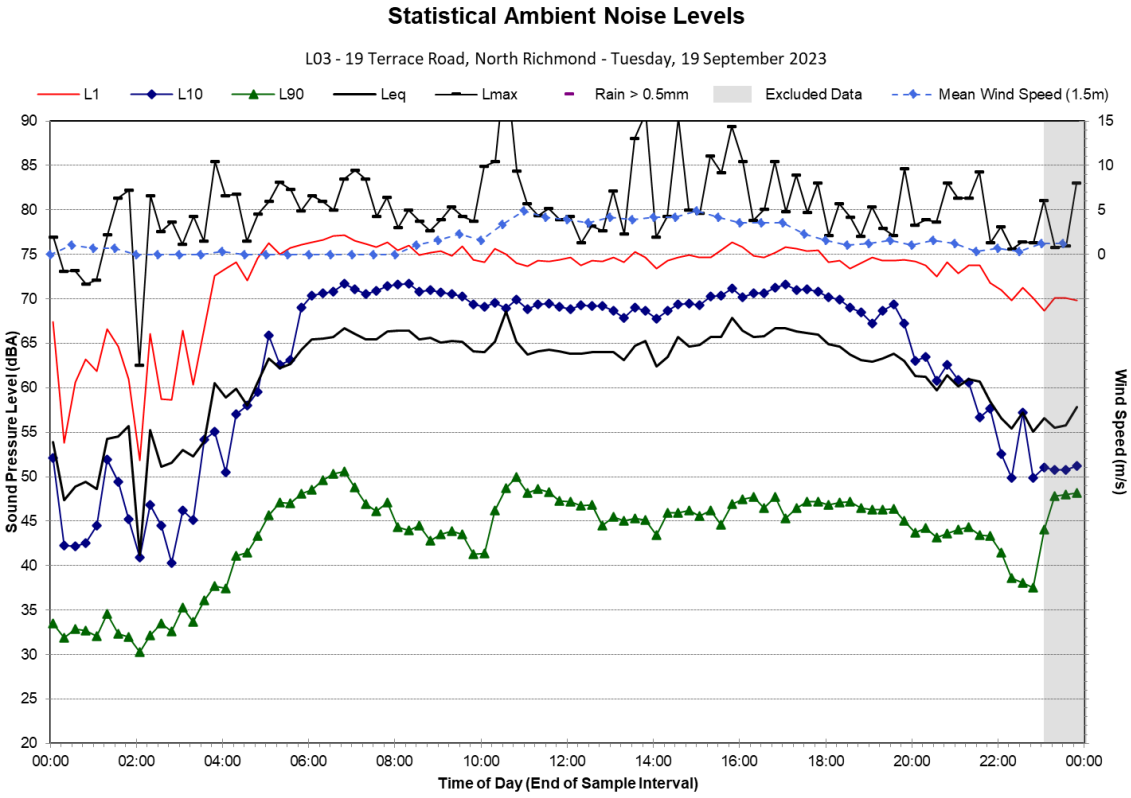

Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Thursday, 14 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

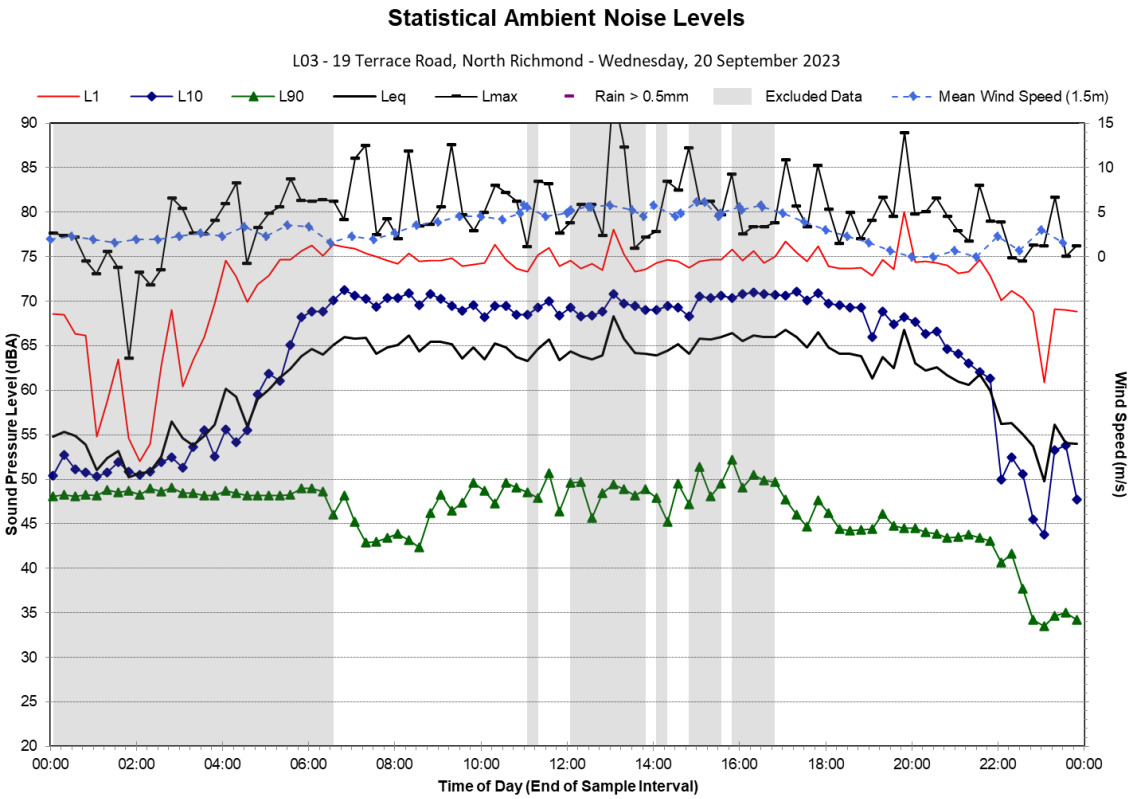

Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Friday, 15 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

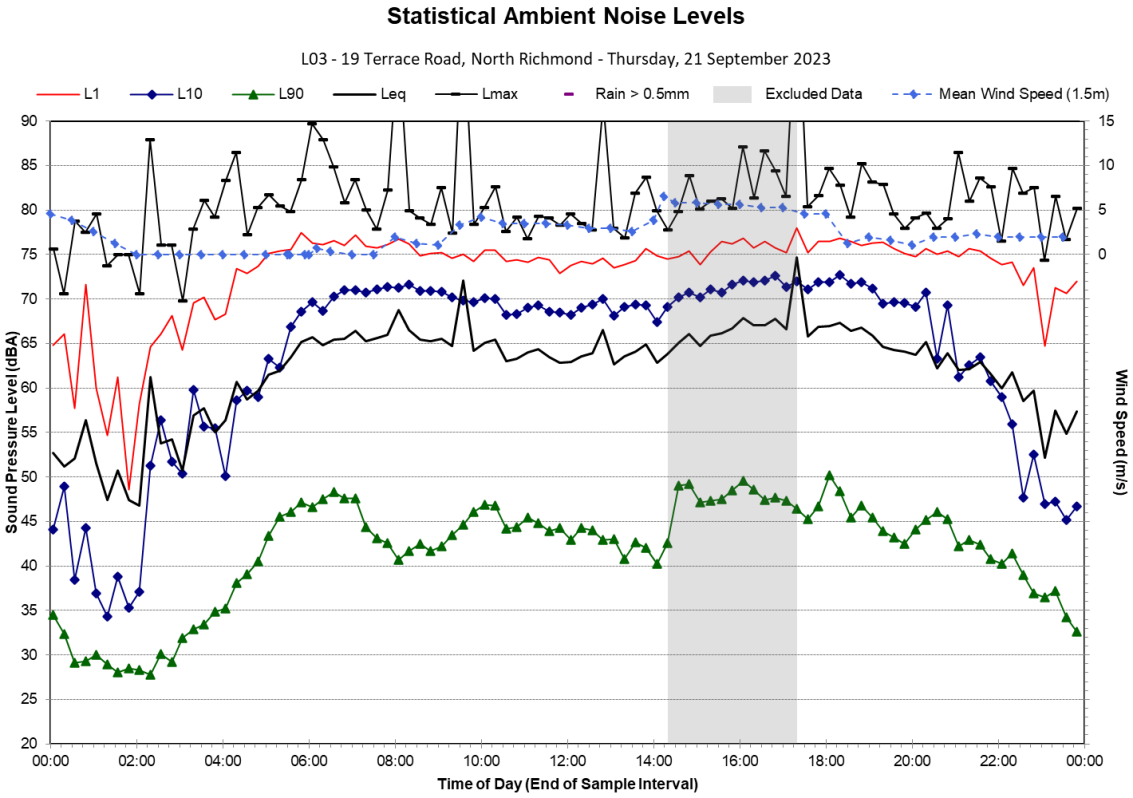

Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Saturday, 16 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

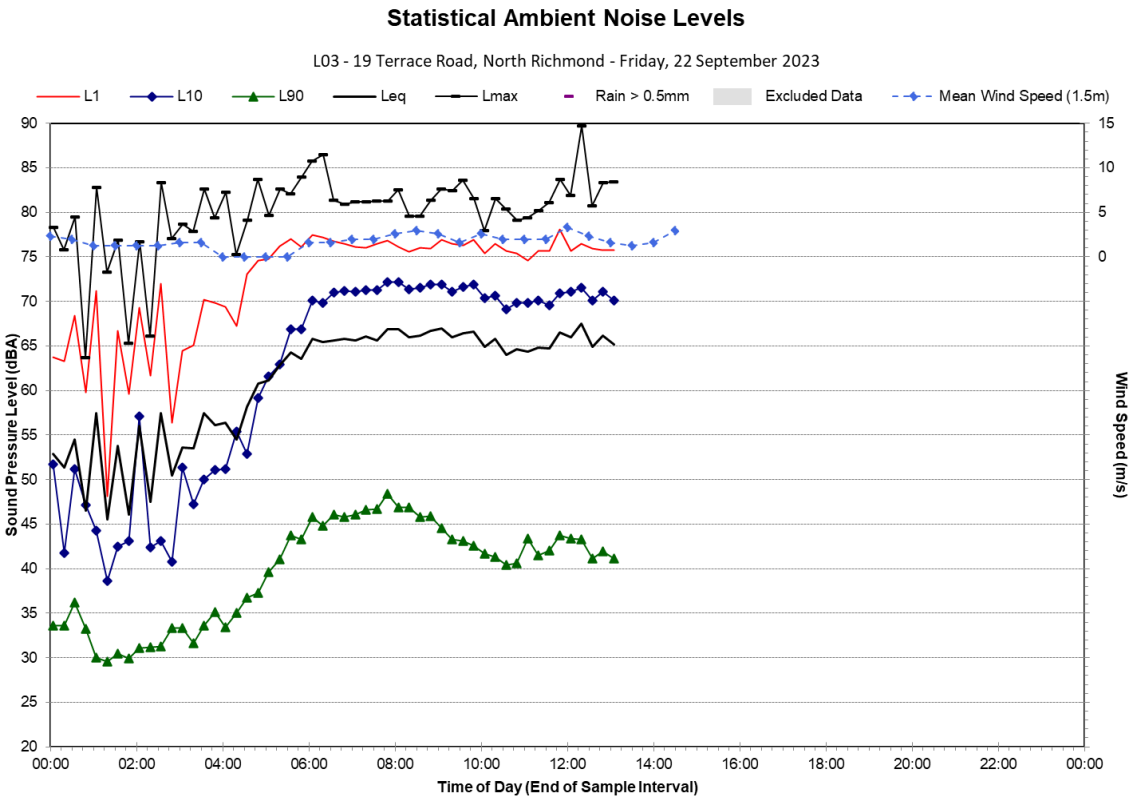

Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Sunday, 17 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Monday, 18 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Tuesday, 19 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Wednesday, 20 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Thursday, 21 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L03 - 19 Terrace Road, North Richmond - Friday, 22 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Noise Monitoring Location	L.05
Noise Monitoring Address	**148 Old Kurrajong Road, Richmond**

Logger Device Type: Svantek 957, Logger Serial No: 98492

Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004635

Ambient noise logger deployed at 148 Old Kurrajong Road, Richmond. Logger located on fence line of pool area around 230 m north east of Bells Line of Road.

Attended noise measurements indicate the ambient noise environment at this location is controlled by road traffic and fauna noise at the time of the measurement. Natural noise sources such as birds also contribute to the L_{Aeq} at this location.

Recorded Noise Levels (LAmax) 11/09/2023:

Traffic – 42 to 50 dBA
Birds – 45 to 50 dBA
Car on property – 64 dBA

Map of Noise Monitoring Location



Ambient Noise Logging Results – ICNG Defined Time Periods

Monitoring Period	**Noise Level (dBA)**			
	RBL	**LAeq**	**L10**	**L1**
Daytime	45	52	53	59
Evening	46	51	52	55
Night-time	31	49	48	52

Ambient Noise Logging Results – RNP Defined Time Periods

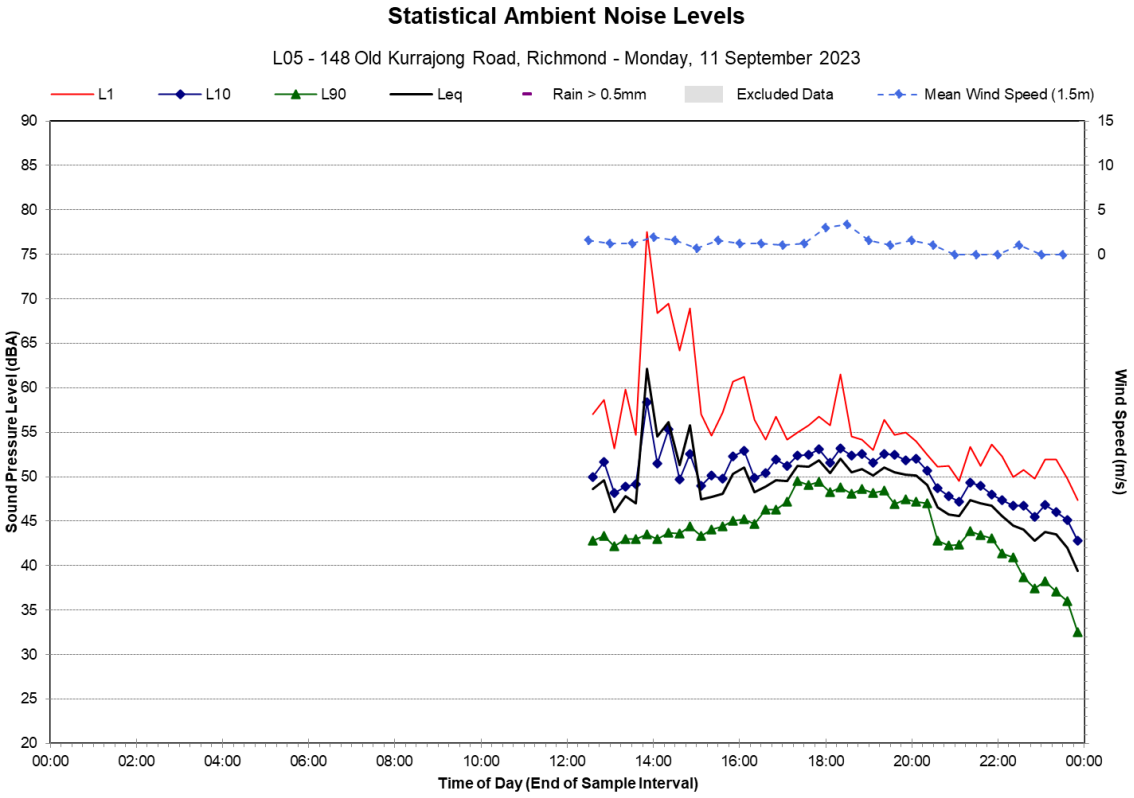
Monitoring Period	**Noise Level (dBA)**	
	LAeq(period)	**LAeq**(1hour)
Daytime (7am-10pm)	52	54
Night-time (10pm-7am)	50	55

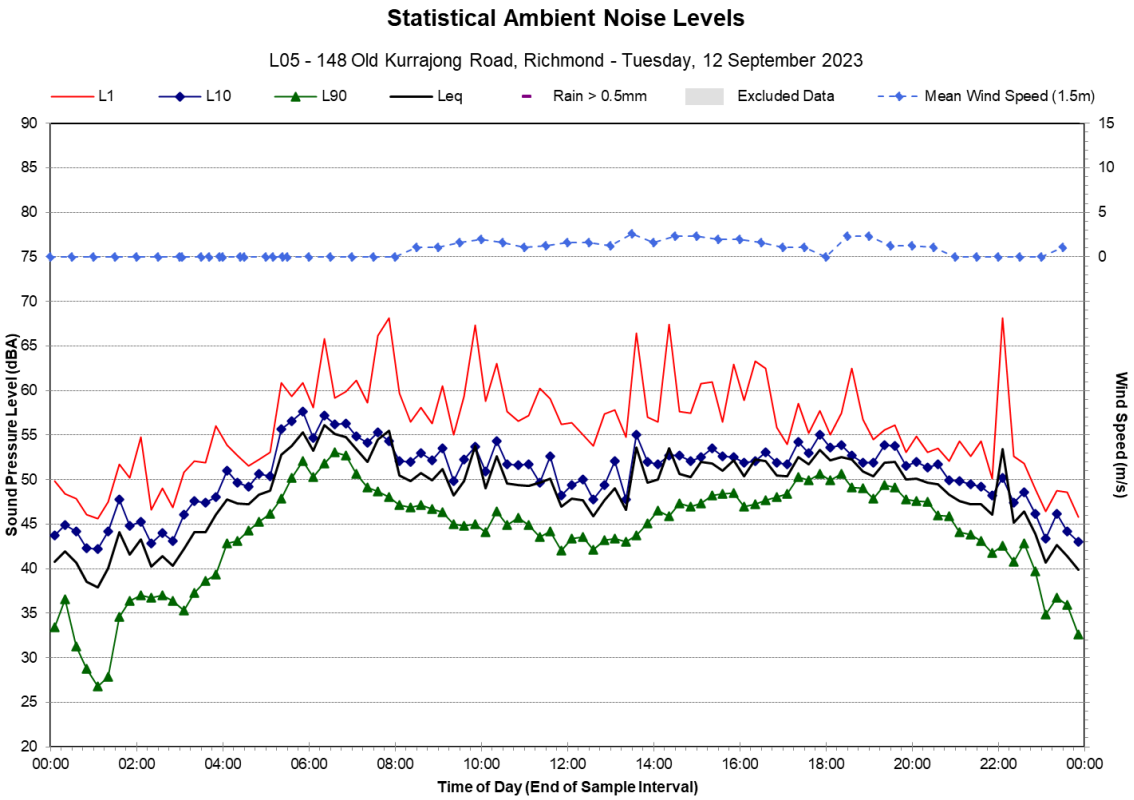
Attended Noise Measurement Results

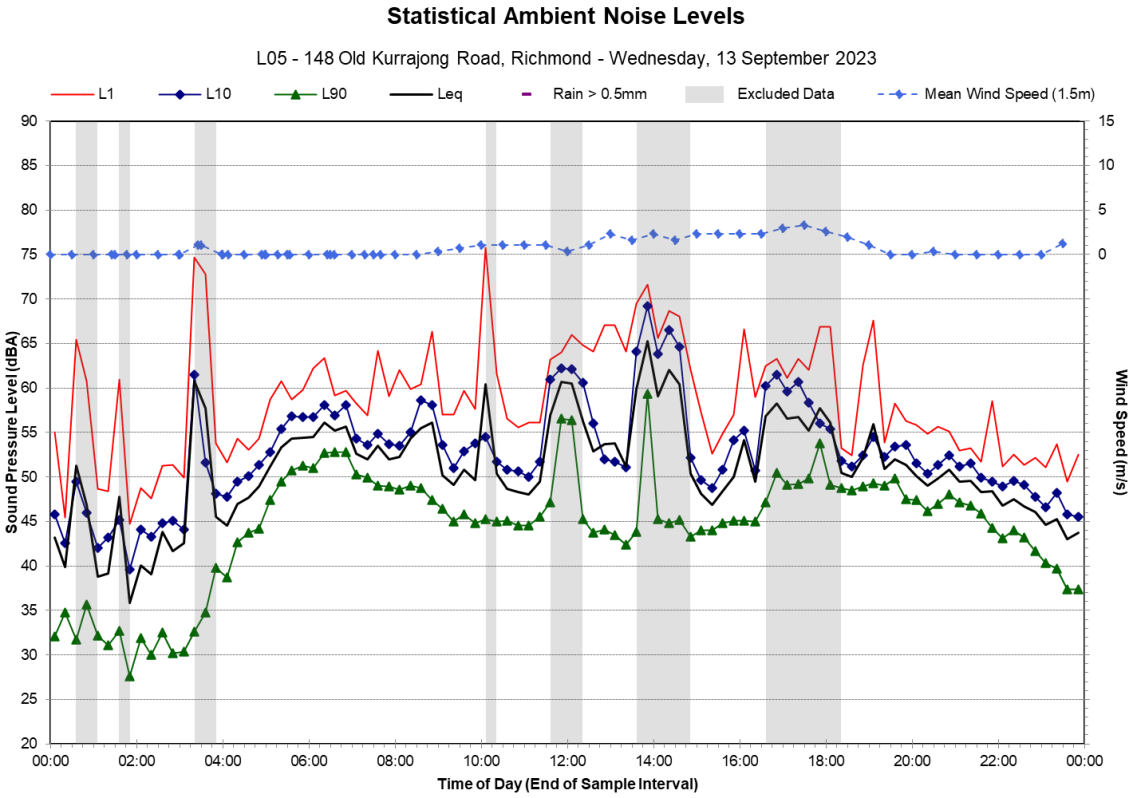
Date	**Start Time**	**Measured Noise Level (dBA)**		
		LA90	**LAeq**	**LAmax**
11/09/2023	14:16	43	48	64

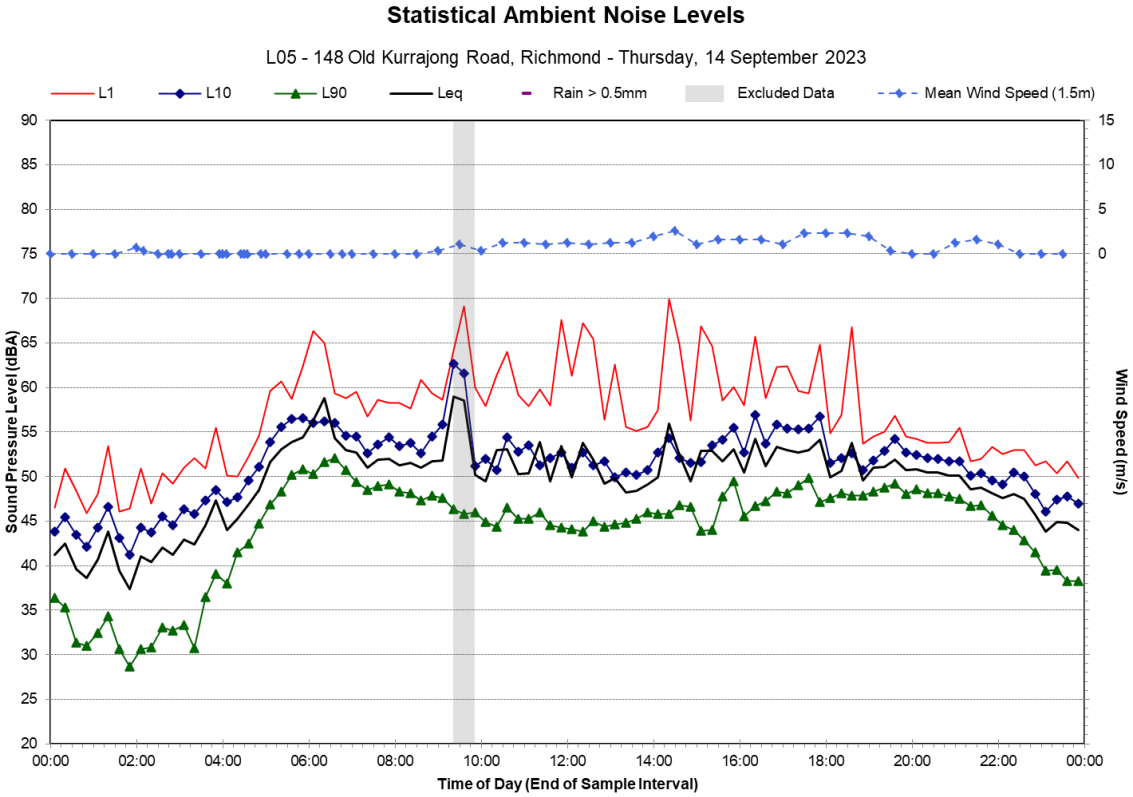
Photo of Noise Monitoring Location

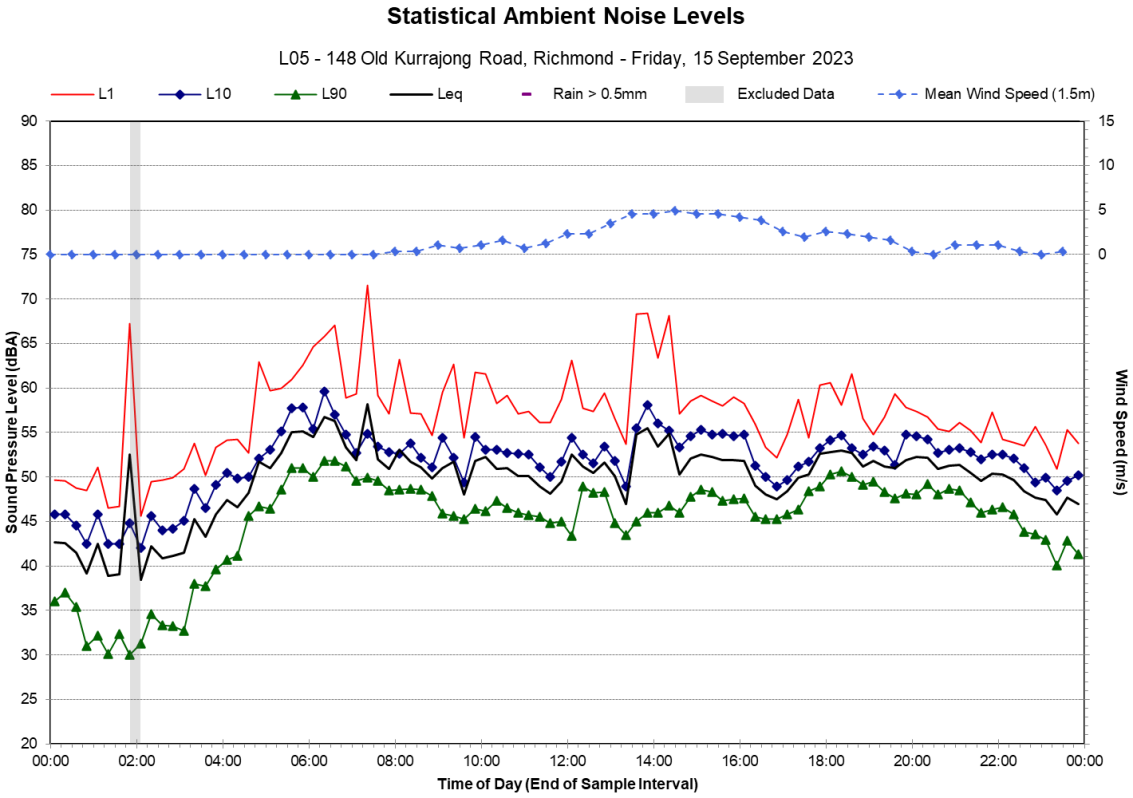


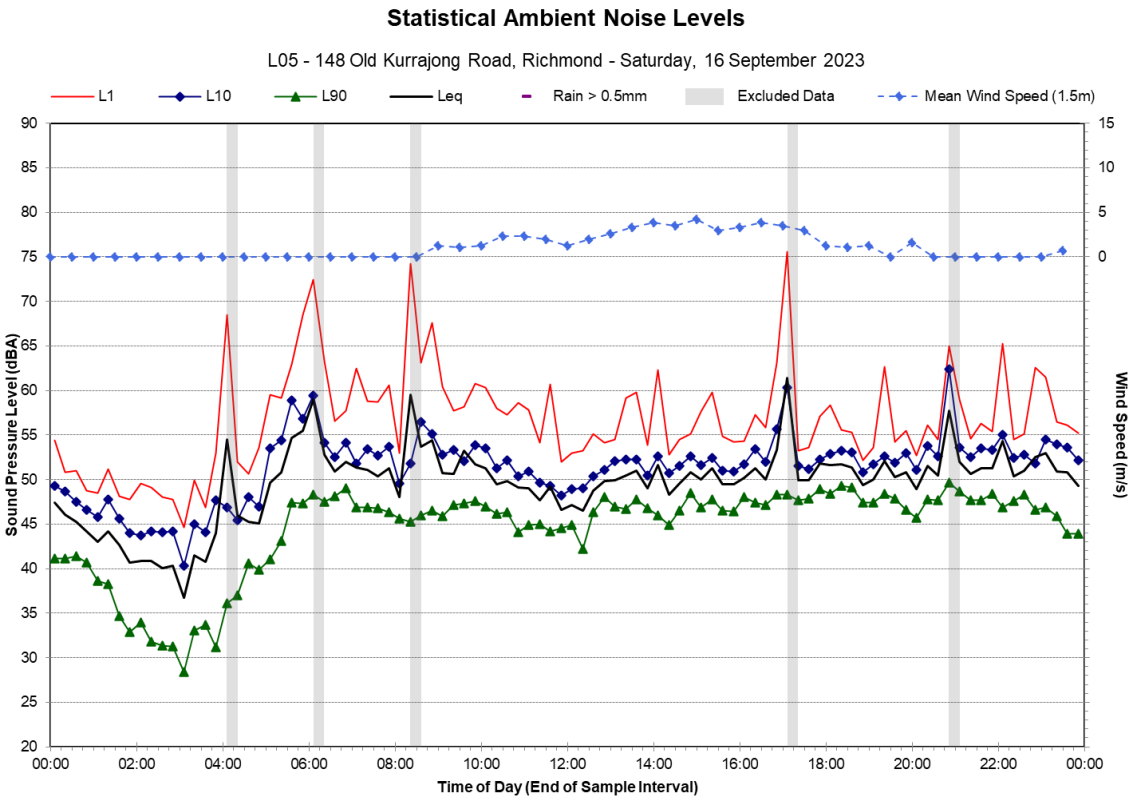

Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Monday, 11 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

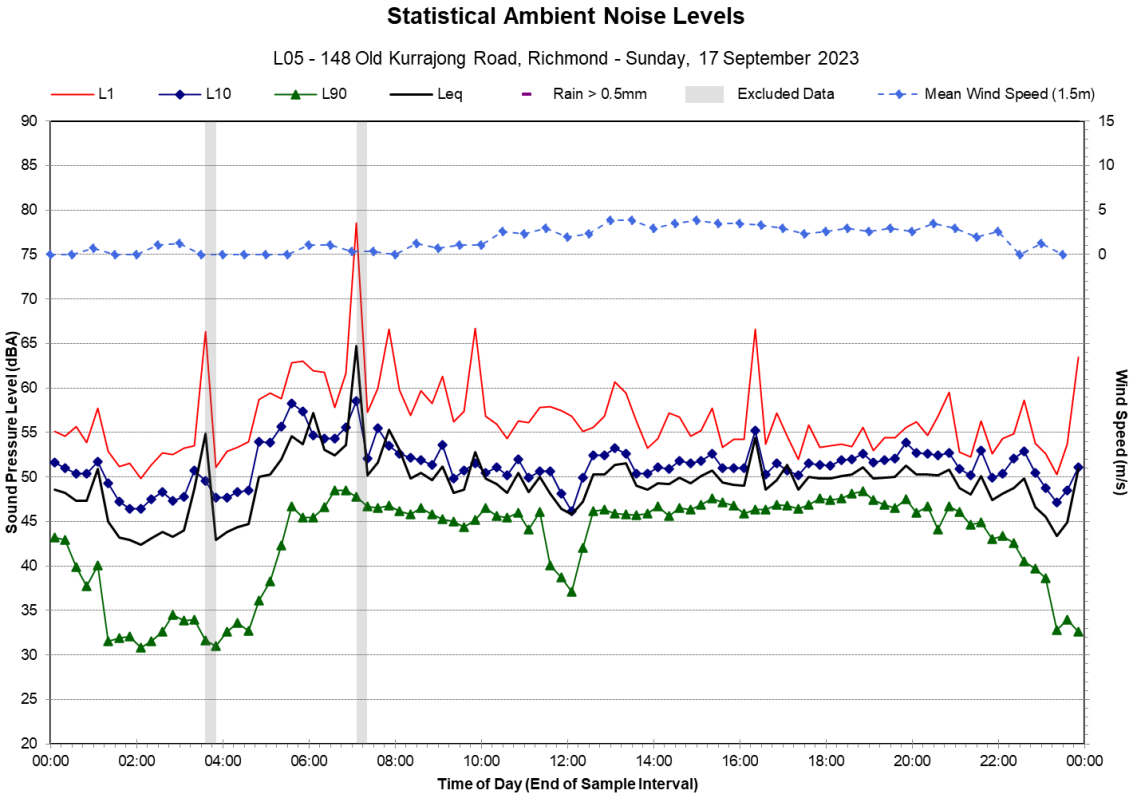

Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Tuesday, 12 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

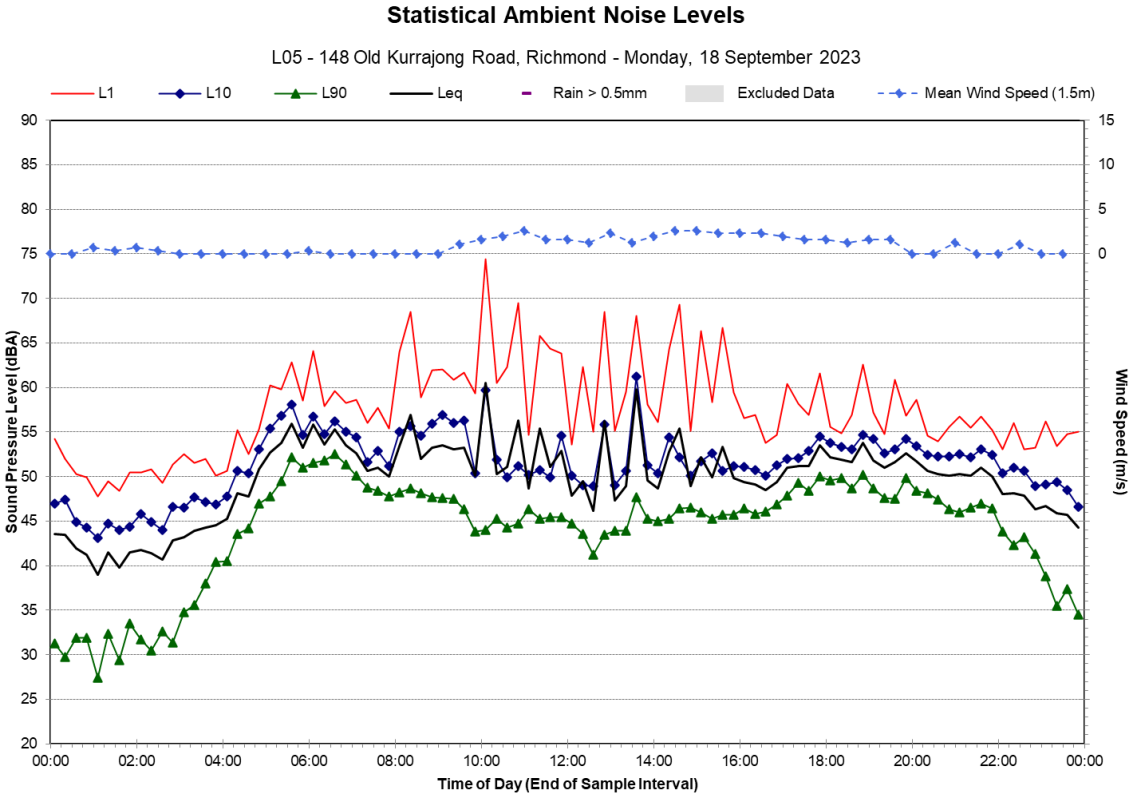

Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Wednesday, 13 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

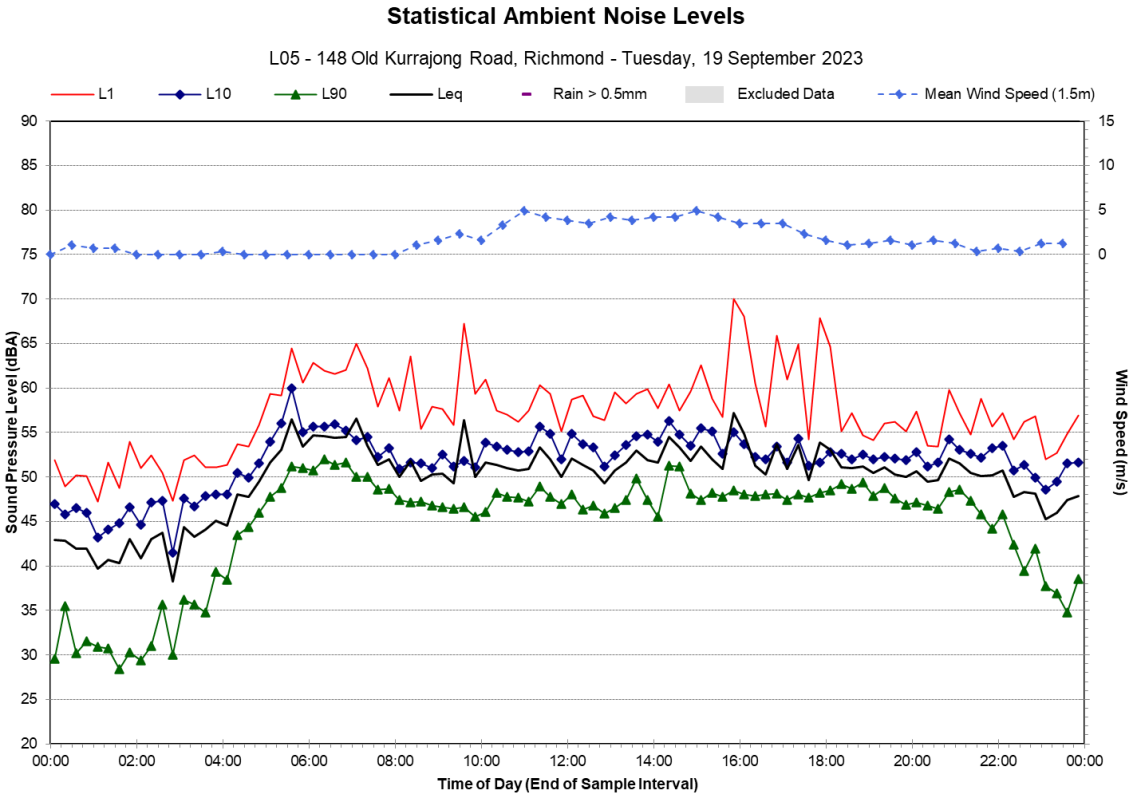

Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Thursday, 14 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

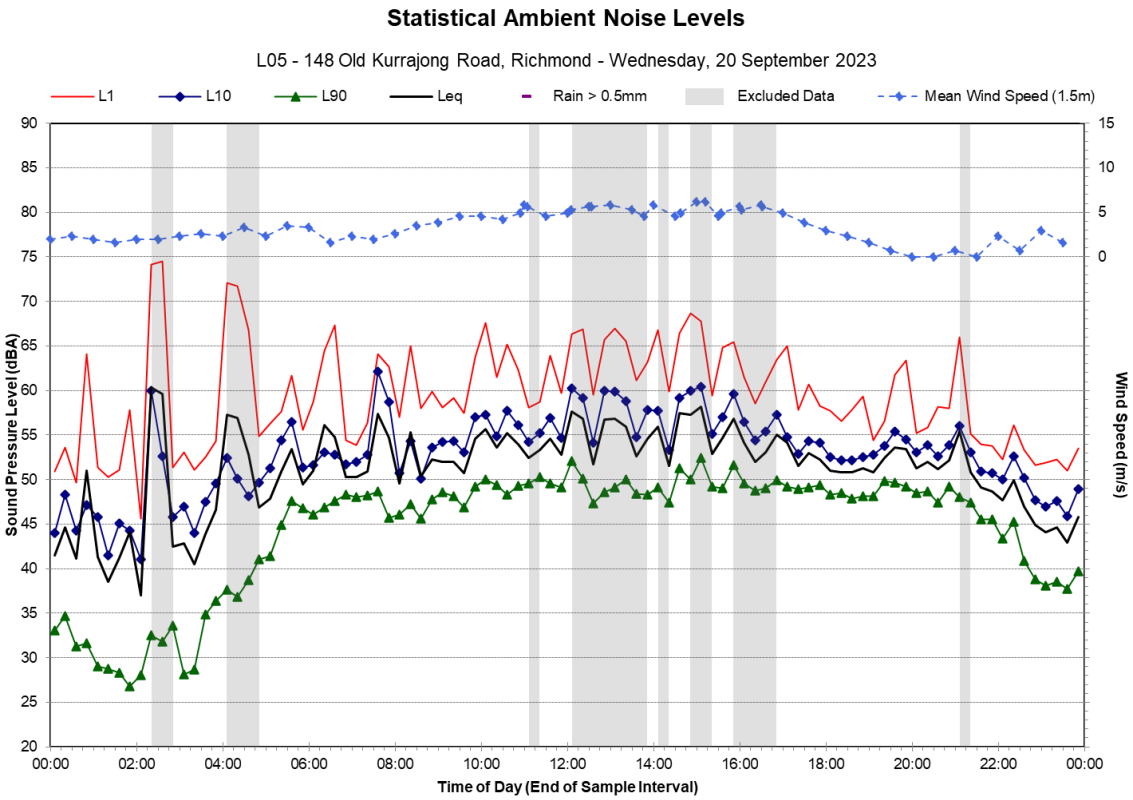

Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Friday, 15 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

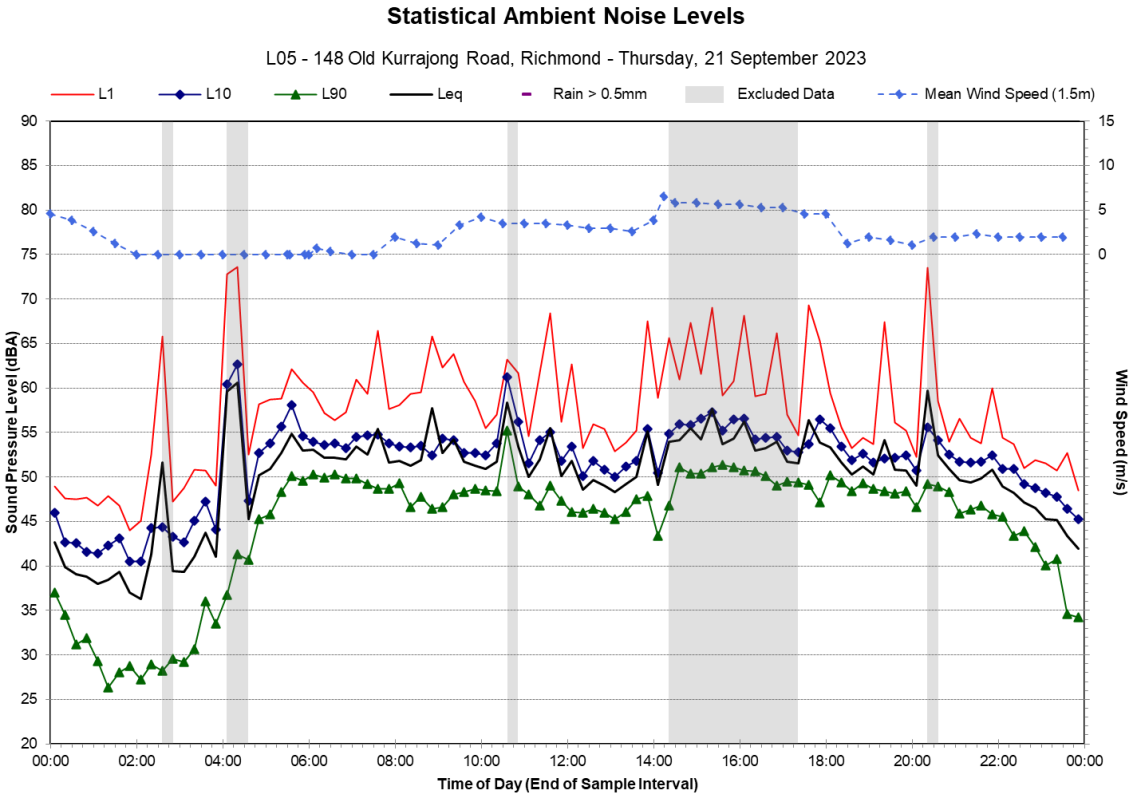

Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Saturday, 16 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

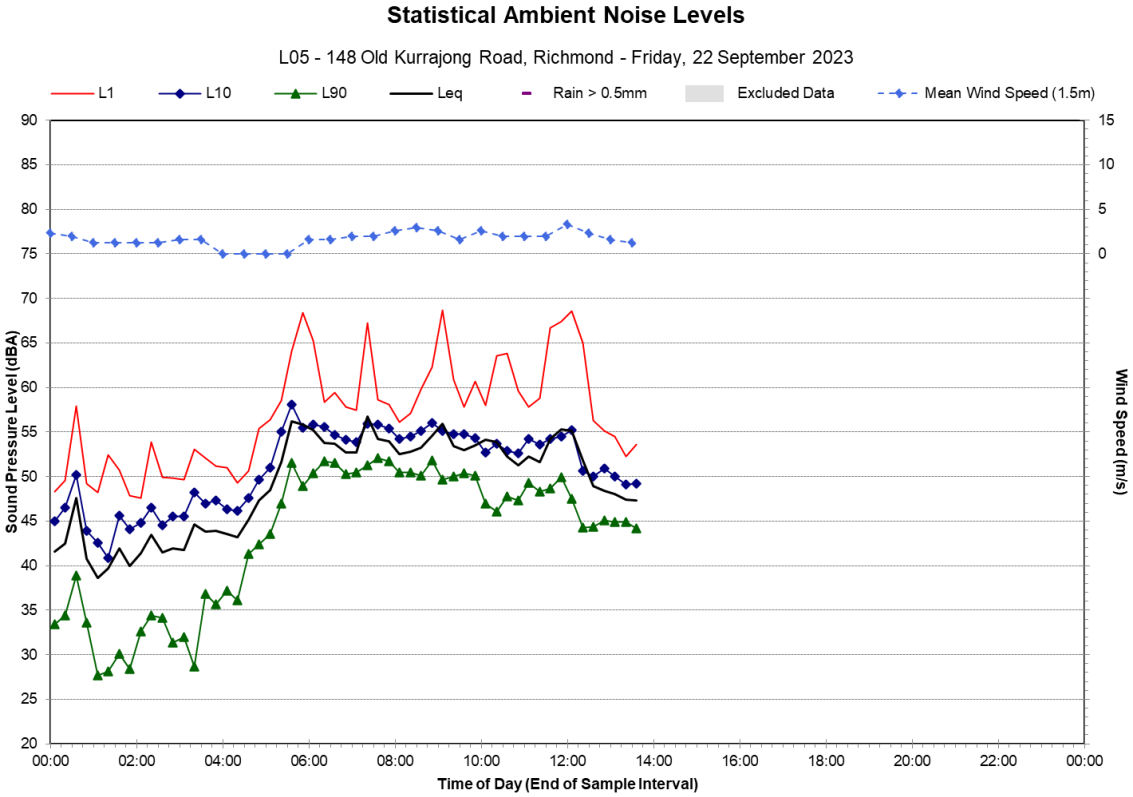

Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Sunday, 17 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Monday, 18 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Tuesday, 19 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Wednesday, 20 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Thursday, 21 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L05 - 148 Old Kurrajong Road, Richmond - Friday, 22 September 2023
L1
L10
L90
Leq
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Noise Monitoring Location	L.06	Map of Noise Monitoring Location
Noise Monitoring Address	**2 Drift Road, Richmond**	

Logger Device Type: Svantek 957, Logger Serial No: 23245

Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004636

Ambient noise logger deployed at 2 Drift Road, Richmond. Logger located on the boundary fenceline approximately 60 meters from Inalls lane and 50m from the Drift Road.

Attended noise measurements indicate the ambient noise environment at this location is controlled by distant road traffic noise on Inalls lane and Drift Road. Natural noise sources such as birds also contribute to the L_{Aeq} at this location.

Recorded Noise Levels (LAmax) 11/09/2023:

Aircraft – 45 to 53 dBA
Light vehicles – 42 to 53 dBA
Heavy Vehicles – 51 to 53 dBA
Birds – 48 to 51
Other impact noise– 53 to 64 dBA



Ambient Noise Logging Results ICNG Defined Time Periods

Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	36	50	51	58
Evening	39	49	51	56
Night-time	25	47	44	51

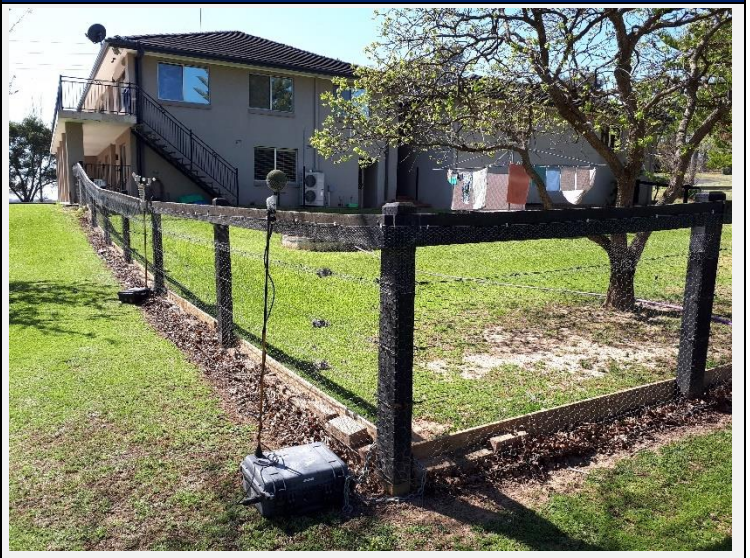
Ambient Noise Logging Results RNP Defined Time Periods

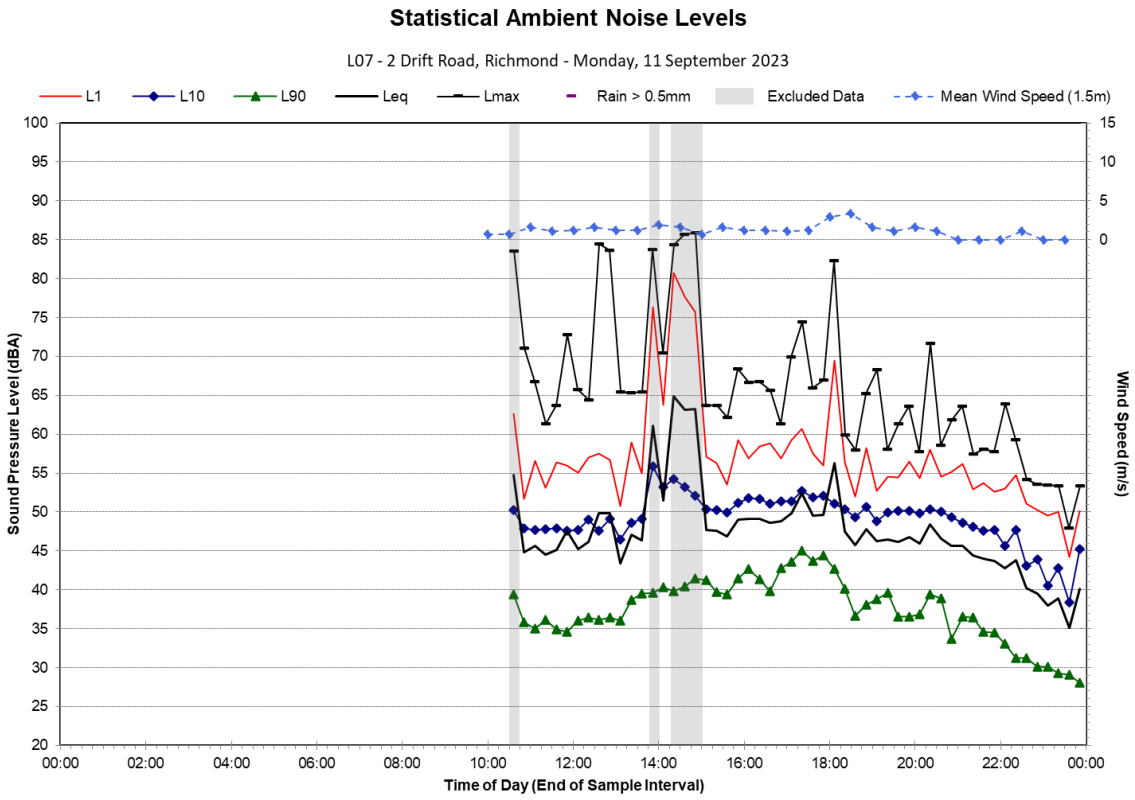
Monitoring Period	Noise Level (dBA)	
	LAeq(period)	LAeq(1hour)
Daytime (7am-10pm)	50	51
Night-time (10pm-7am)	47	52

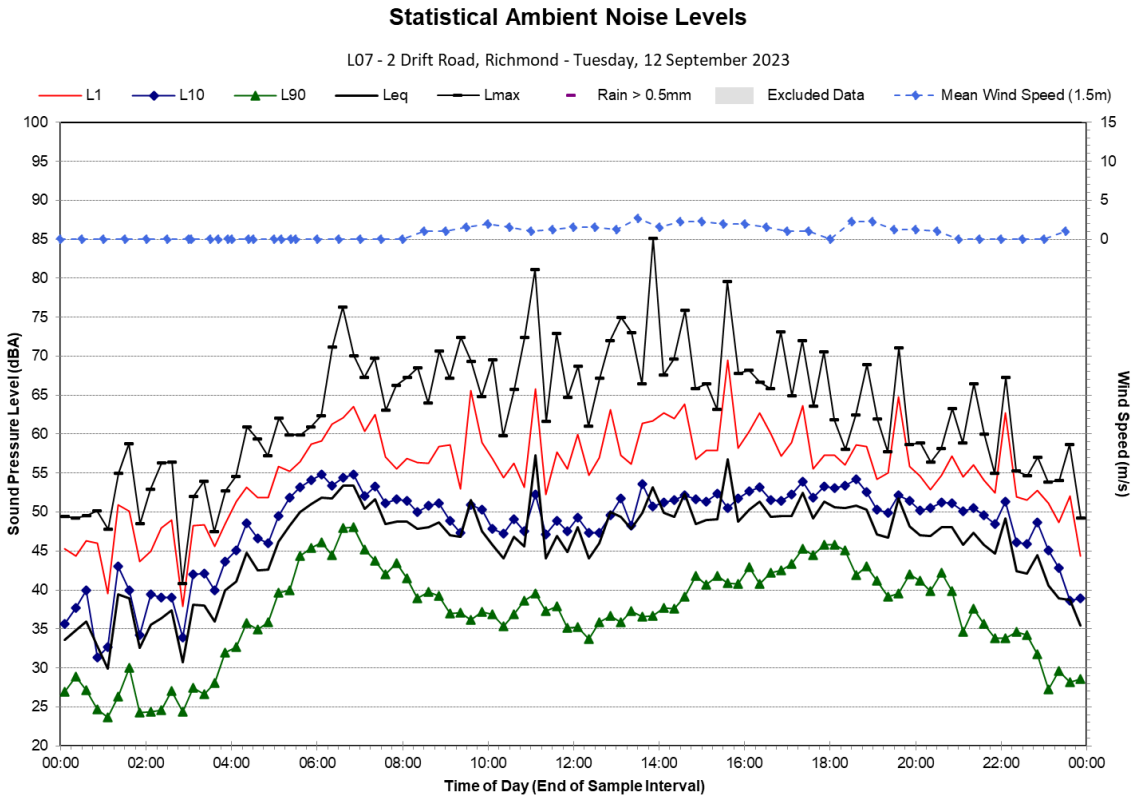
Attended Noise Measurement Results

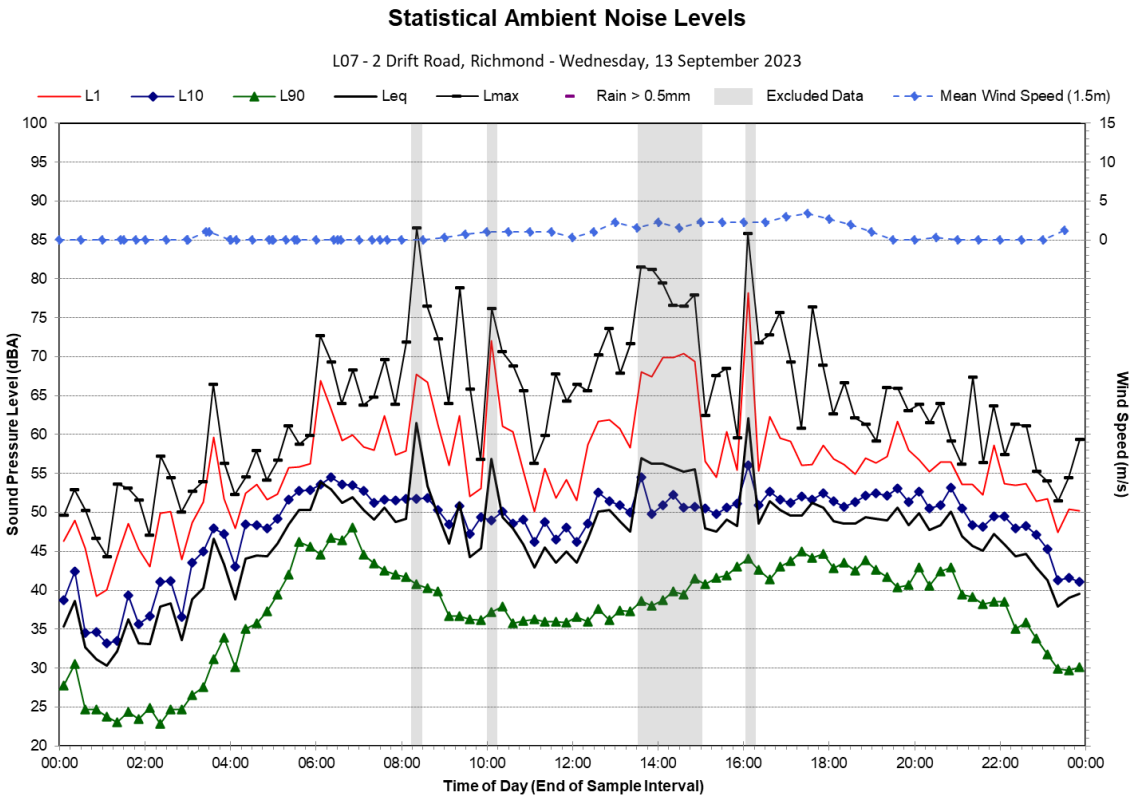
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmax
11/09/2023	10:29	36	46	64

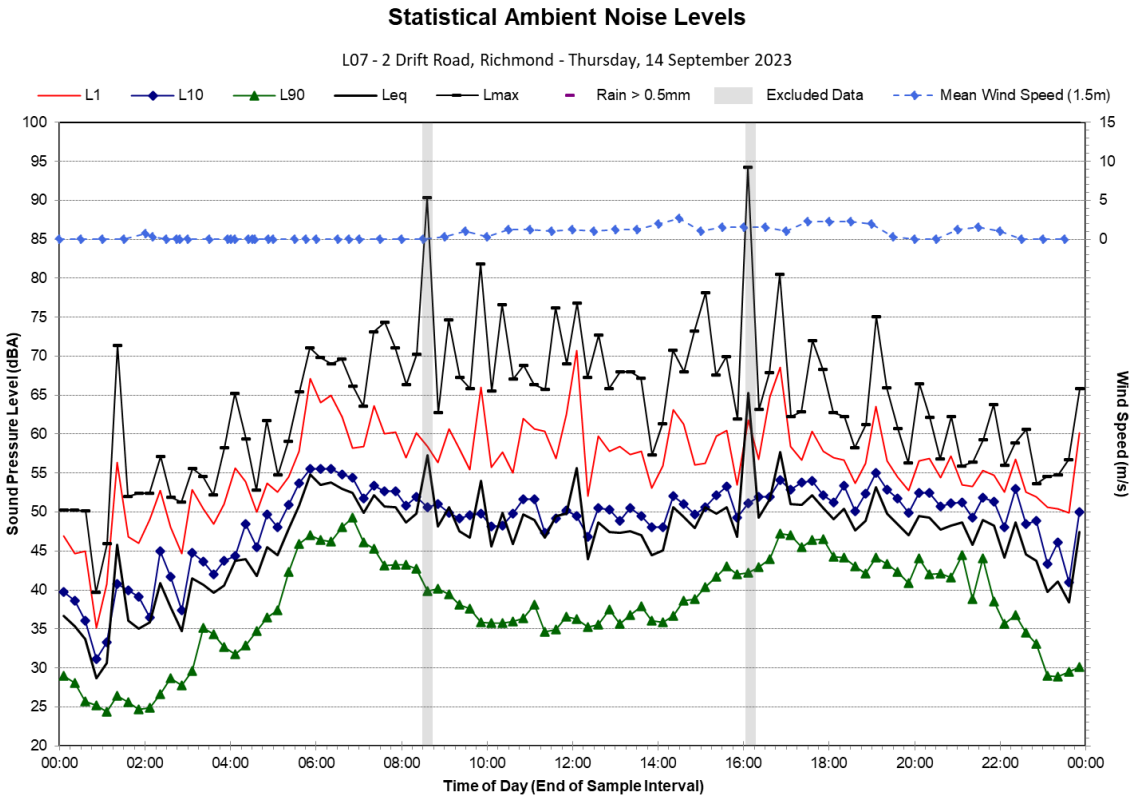
Photo of Noise Monitoring Location

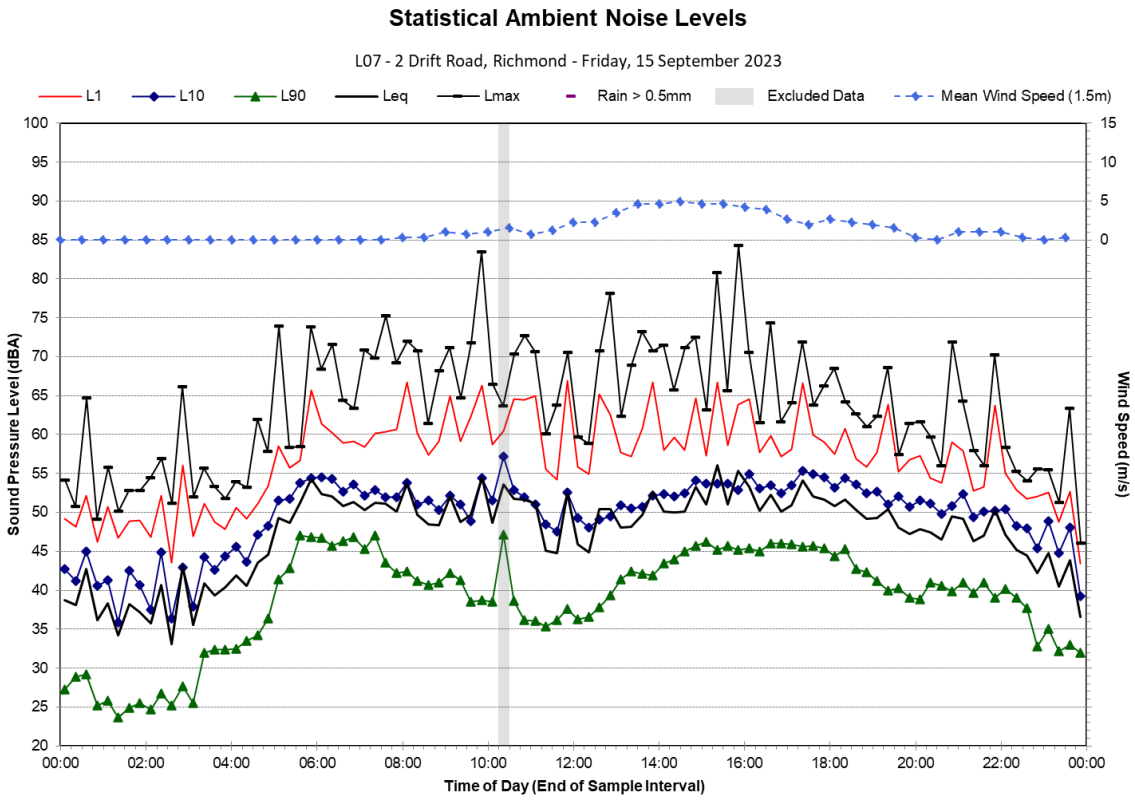


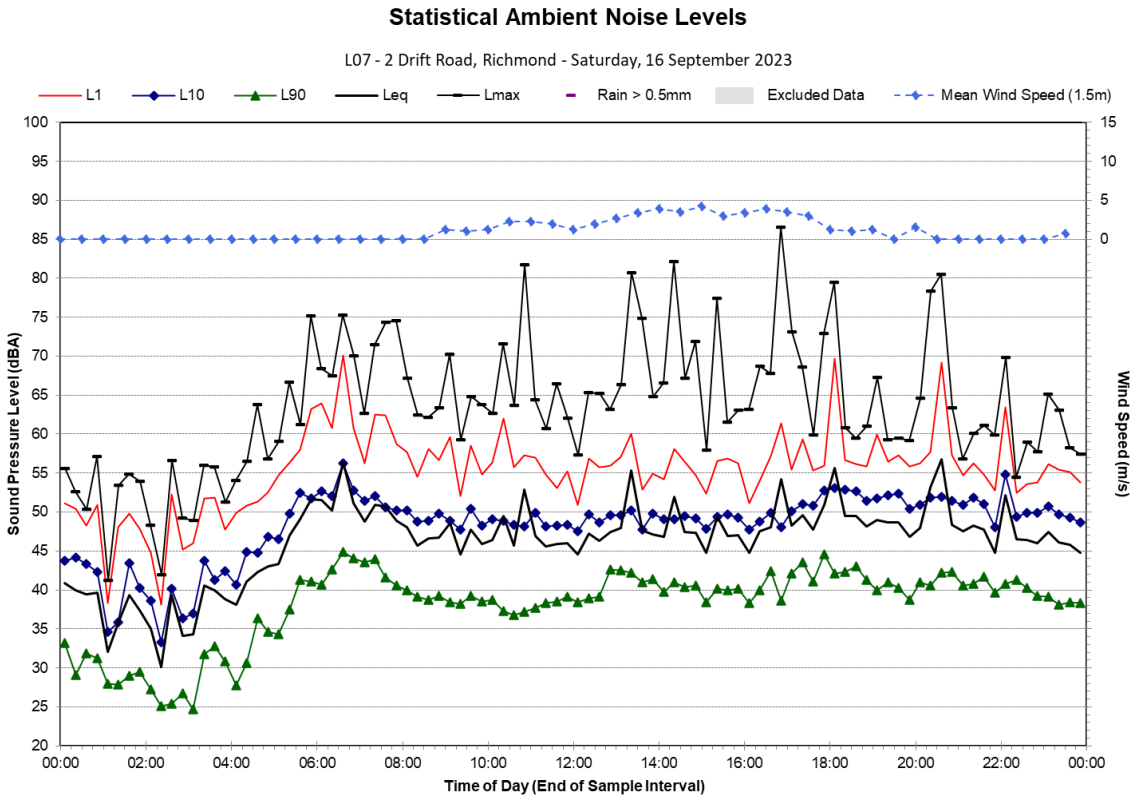

Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Monday, 11 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

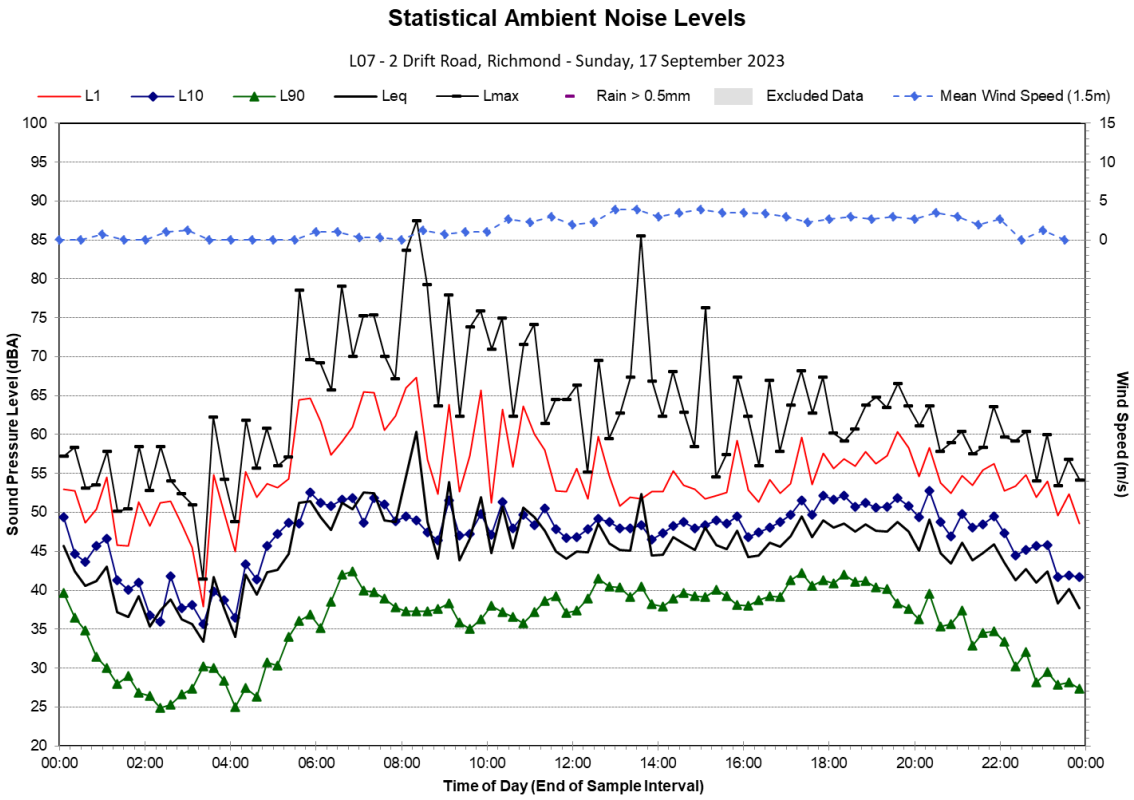

Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Tuesday, 12 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

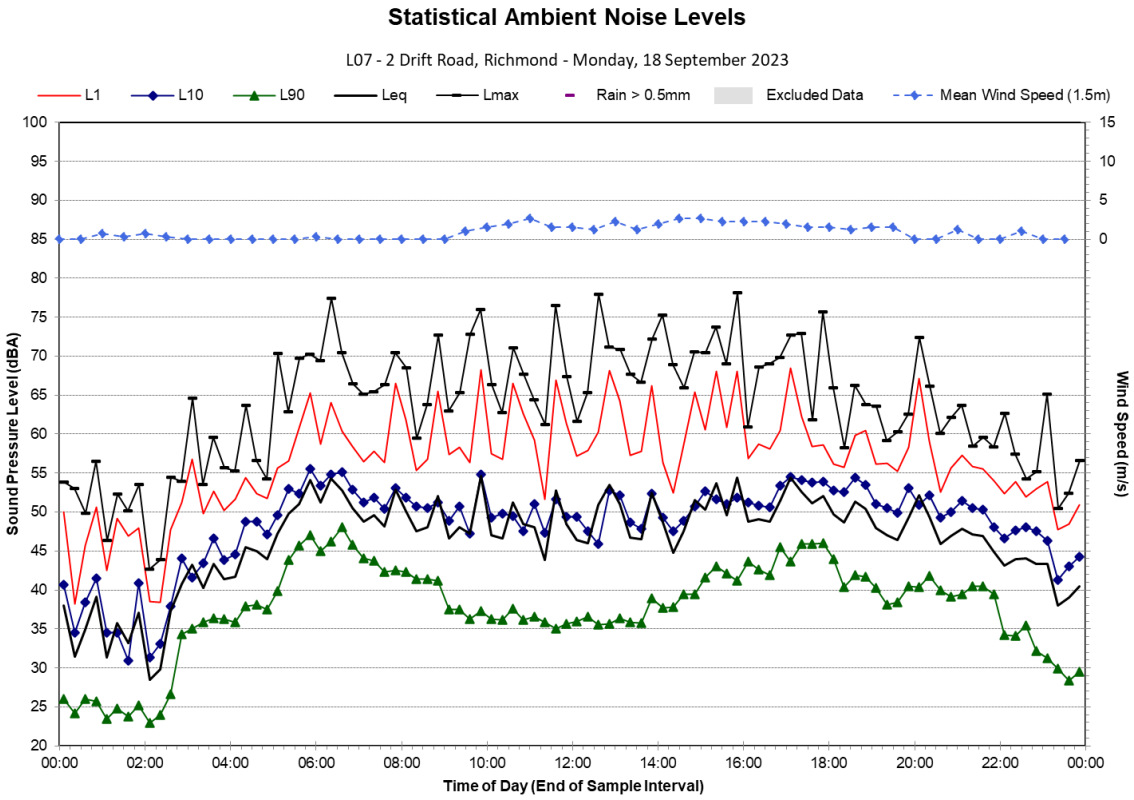

Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Wednesday, 13 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

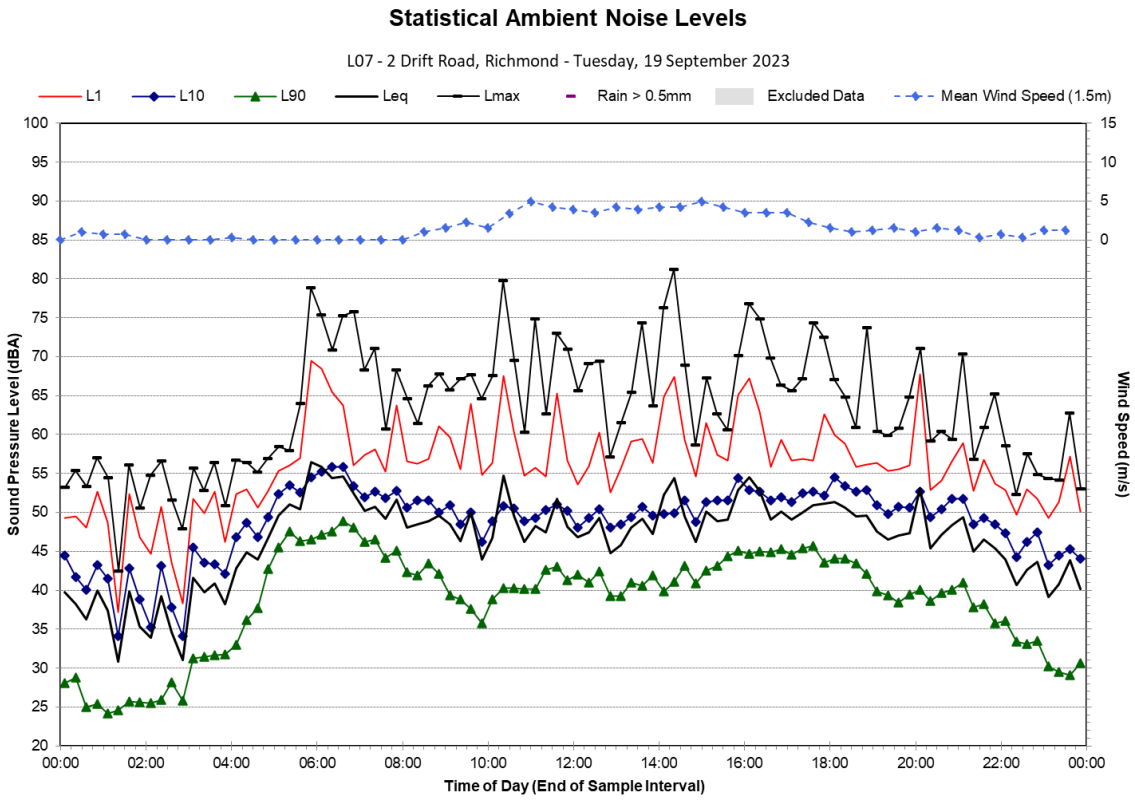

Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Thursday, 14 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

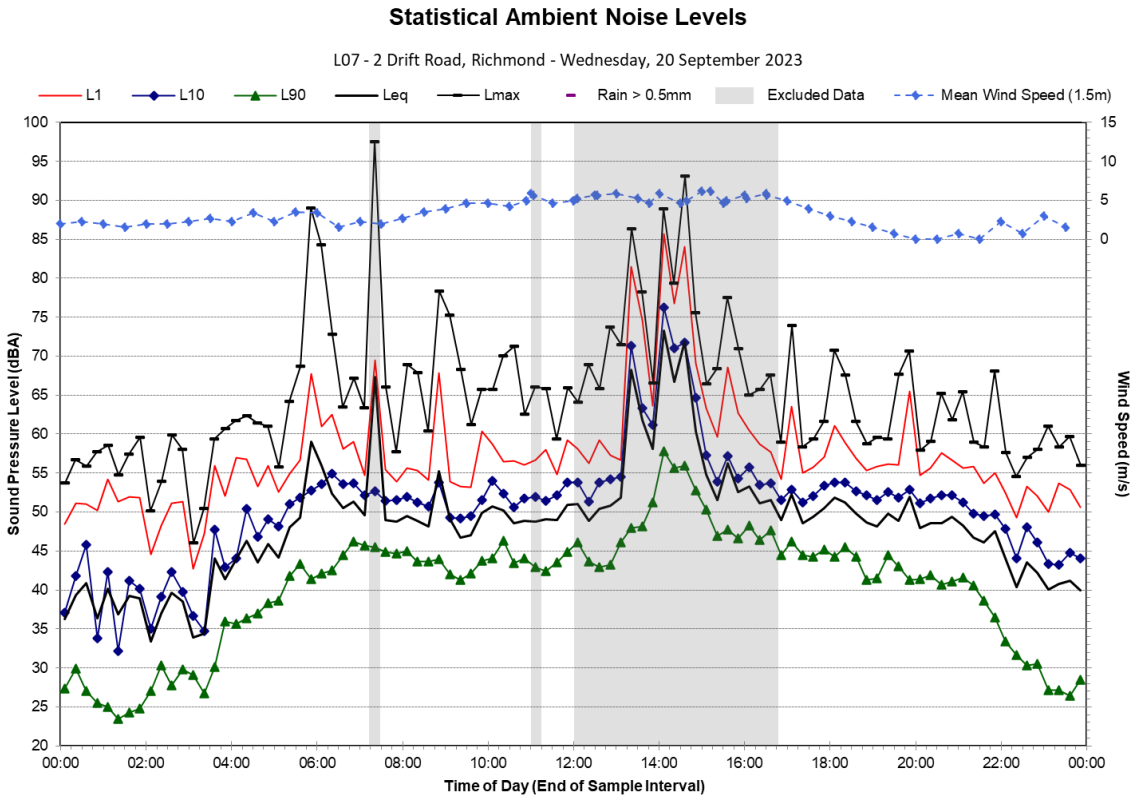

Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Friday, 15 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

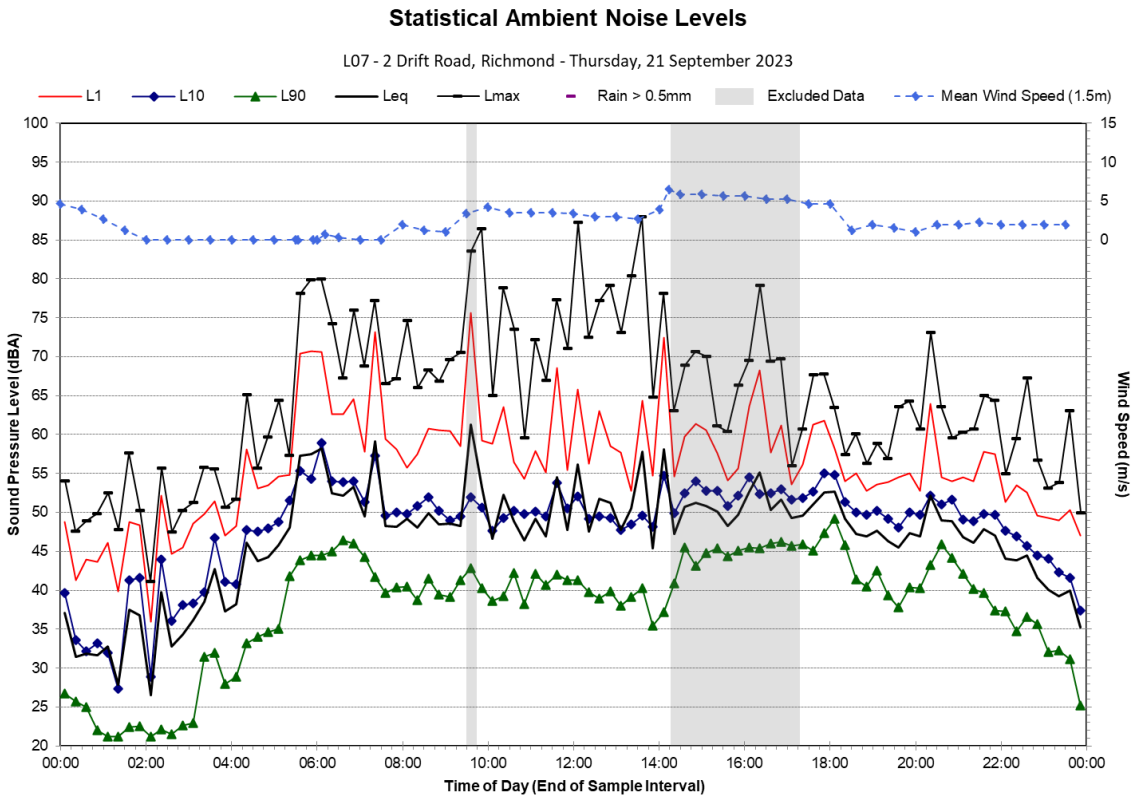

Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Saturday, 16 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

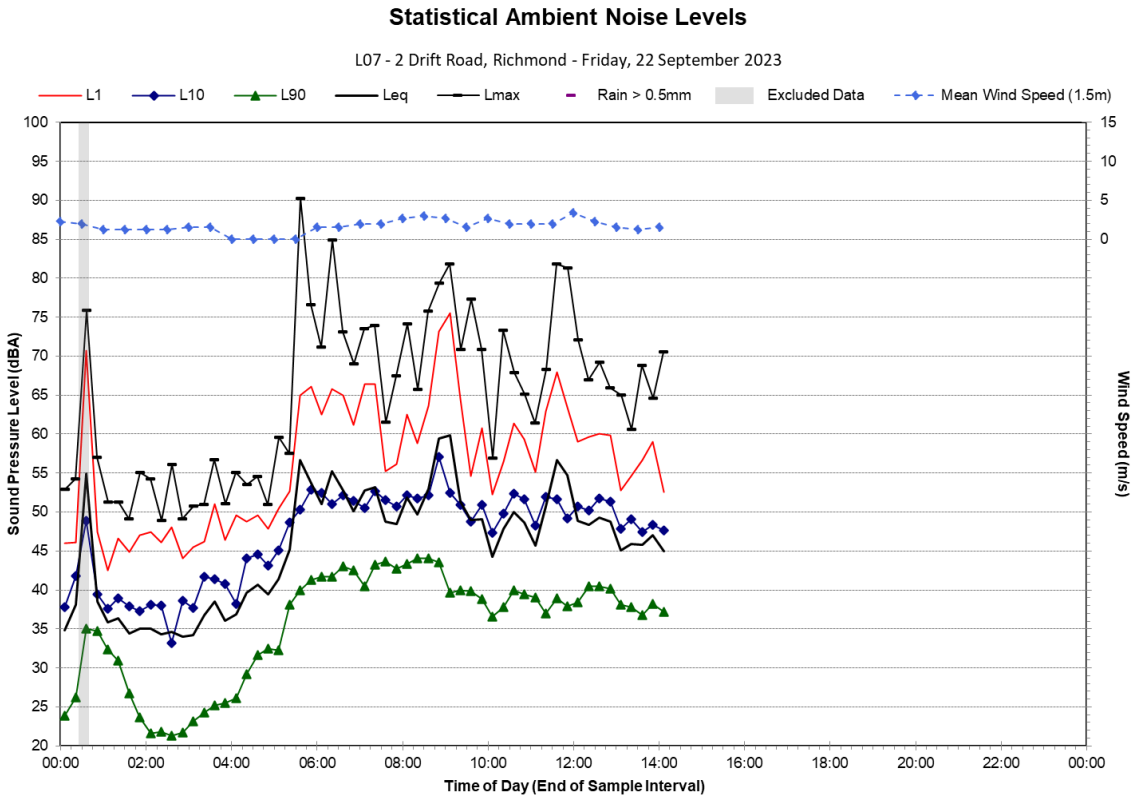

Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Sunday, 17 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Monday, 18 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Tuesday, 19 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Wednesday, 20 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Thursday, 21 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 2 Drift Road, Richmond - Friday, 22 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Noise Monitoring Location	L.07	Map of Noise Monitoring Location
Noise Monitoring Address	**9 Southee Road, Hobartville**	

Logger Device Type: Svantek 957, Logger Serial No: 20666

Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004636

Ambient noise logger deployed at 9 Southee Road, Hobartville. Logger located 1m from the facade.

Attended noise measurements indicate the ambient noise environment at this location is controlled by road traffic noise.

Recorded Noise Levels (LAmax) 11/09/2023:

Dog – 76 to 77 dBA
Light vehicles – 66 to 71 dBA
Heavy Vehicles – 45 to 69 dBA
Aircraft - 52 to 60 dBA

Ambient Noise Logging Results ICNG Defined Time Periods

Monitoring Period	**Noise Level (dBA)**			
	RBL	**LAeq**	**L10**	**L1**
Daytime	38	61	65	71
Evening	39	59	61	70
Night-time	30	56	49	66

Ambient Noise Logging Results RNP Defined Time Periods

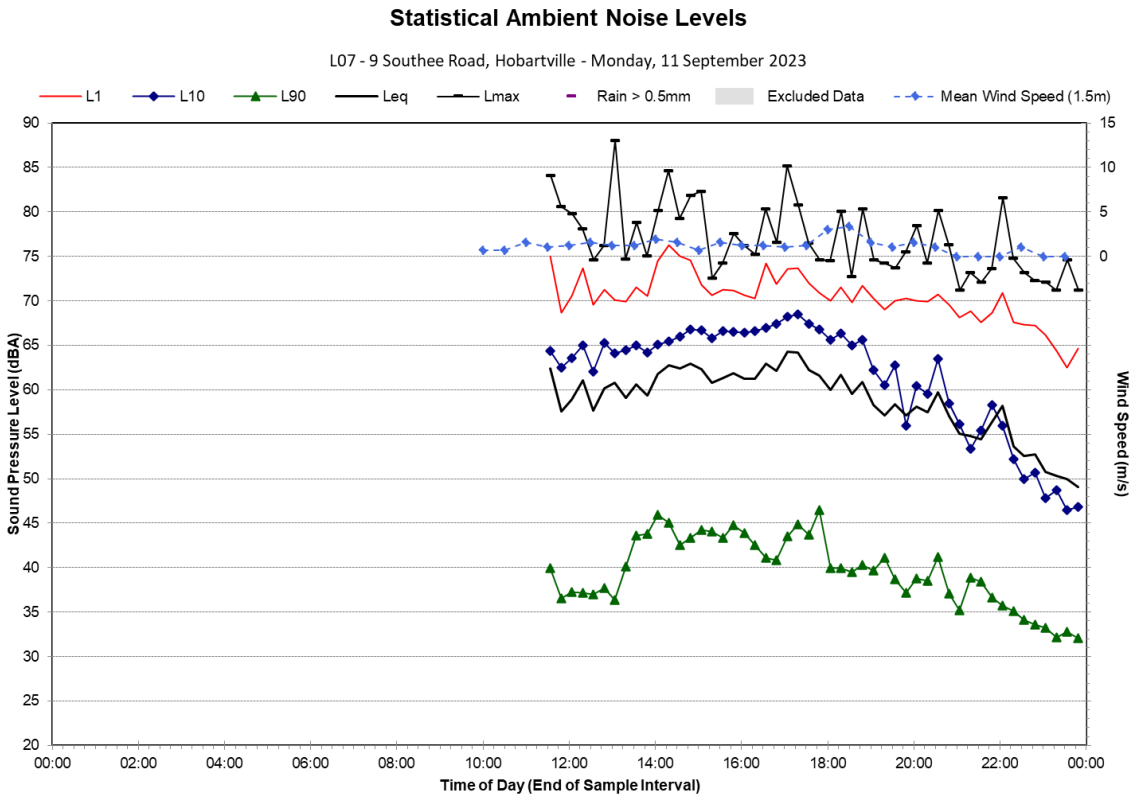
Monitoring Period	**Noise Level (dBA)**	
	LAeq(period)	**LAeq**(1hour)
Daytime (7am-10pm)	61	63
Night-time (10pm-7am)	56	62

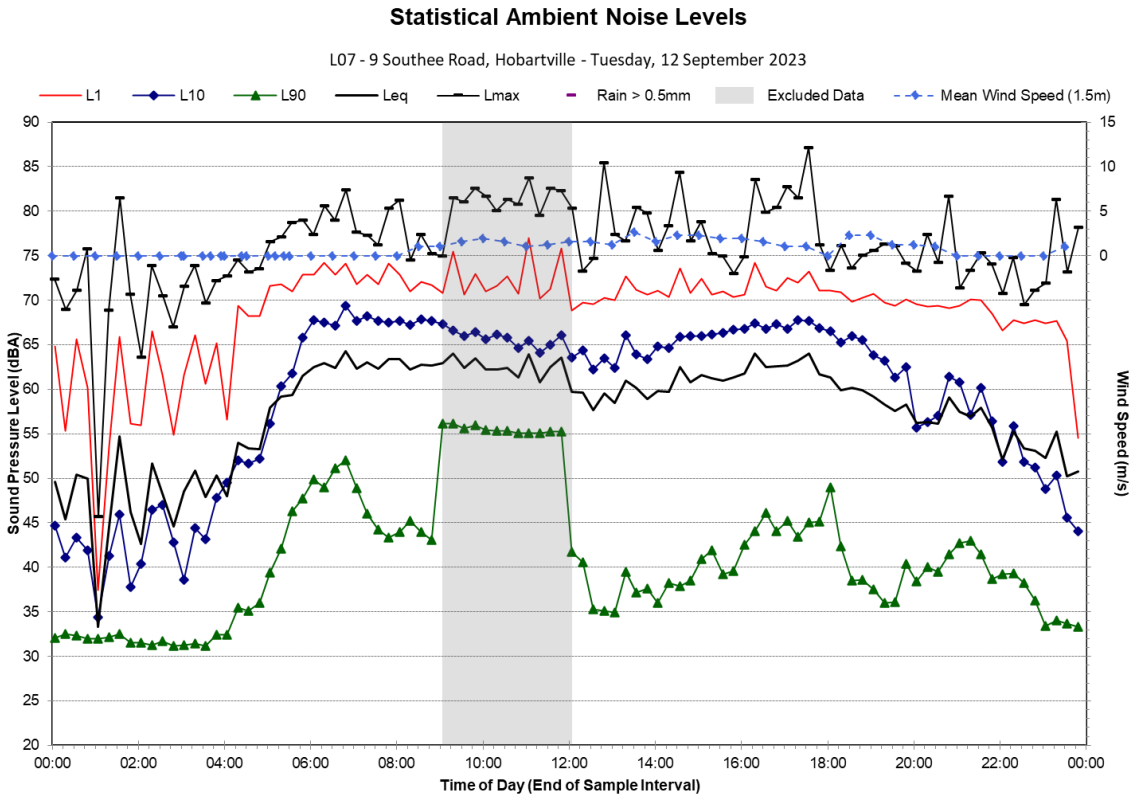
Attended Noise Measurement Results

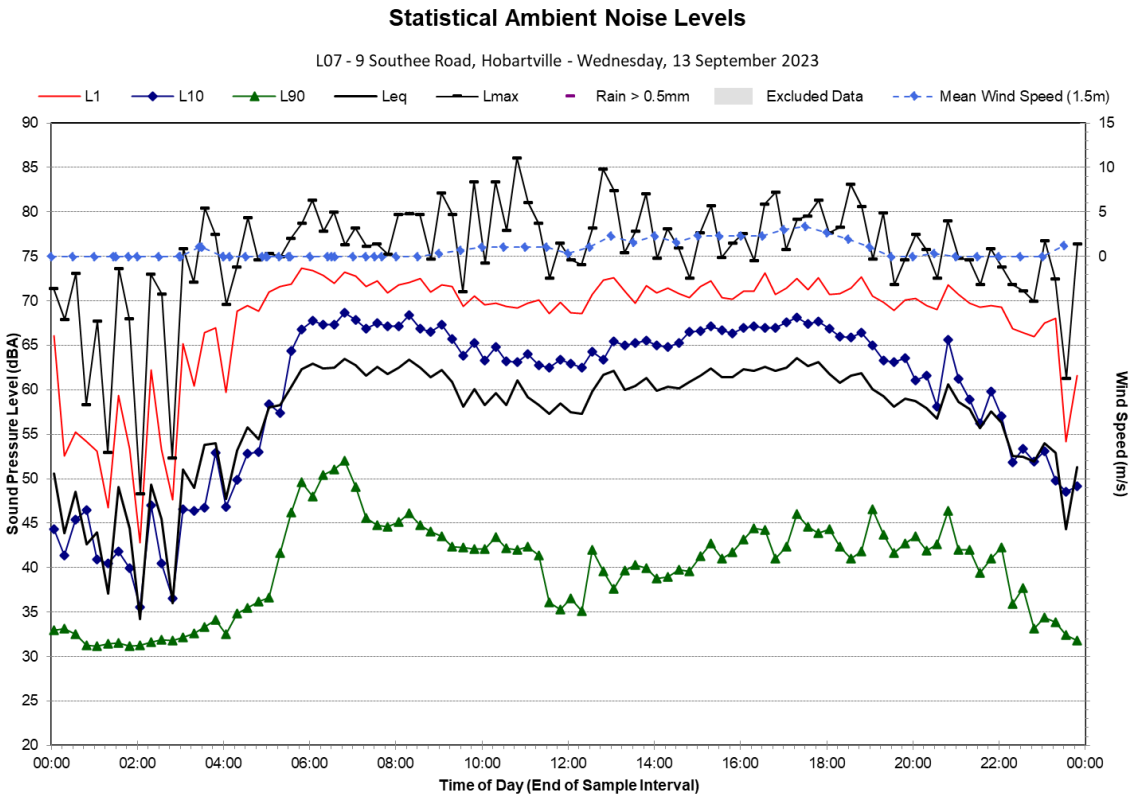
Date	**Start Time**	**Measured Noise Level (dBA)**		
		LA90	**LAeq**	**LAmax**
11/09/2023	11:25	39	58	71

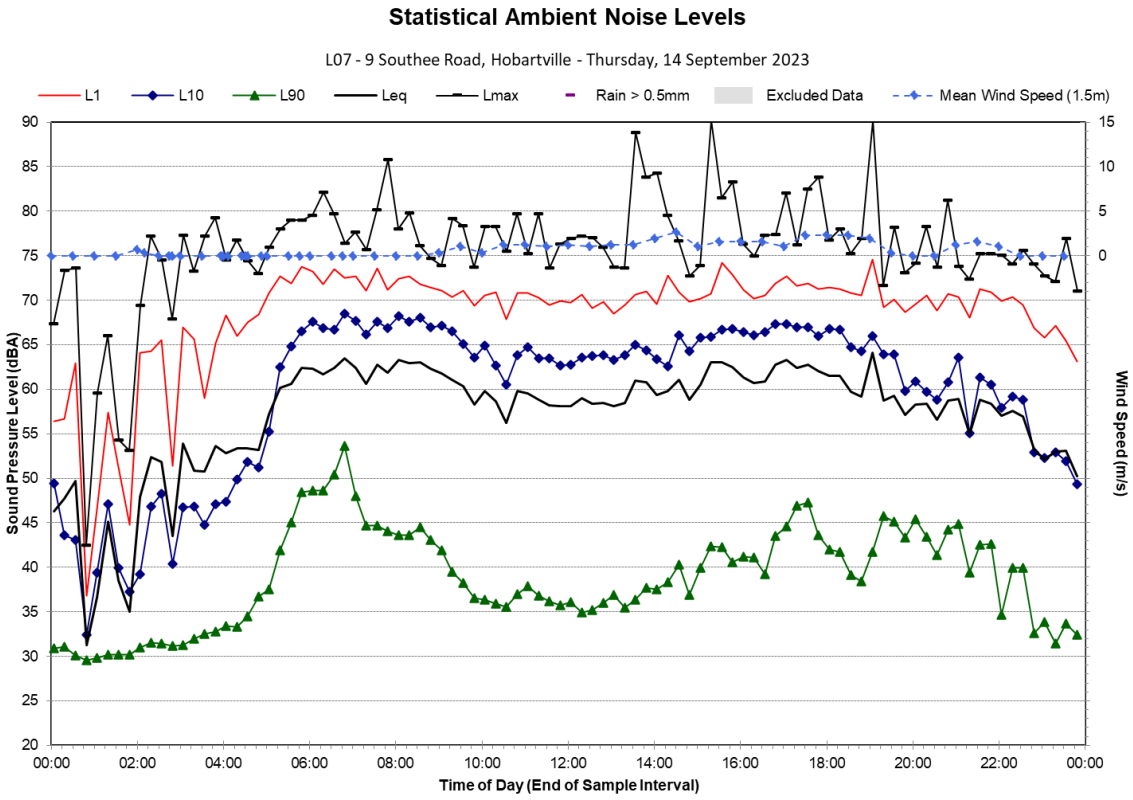
Photo of Noise Monitoring Location

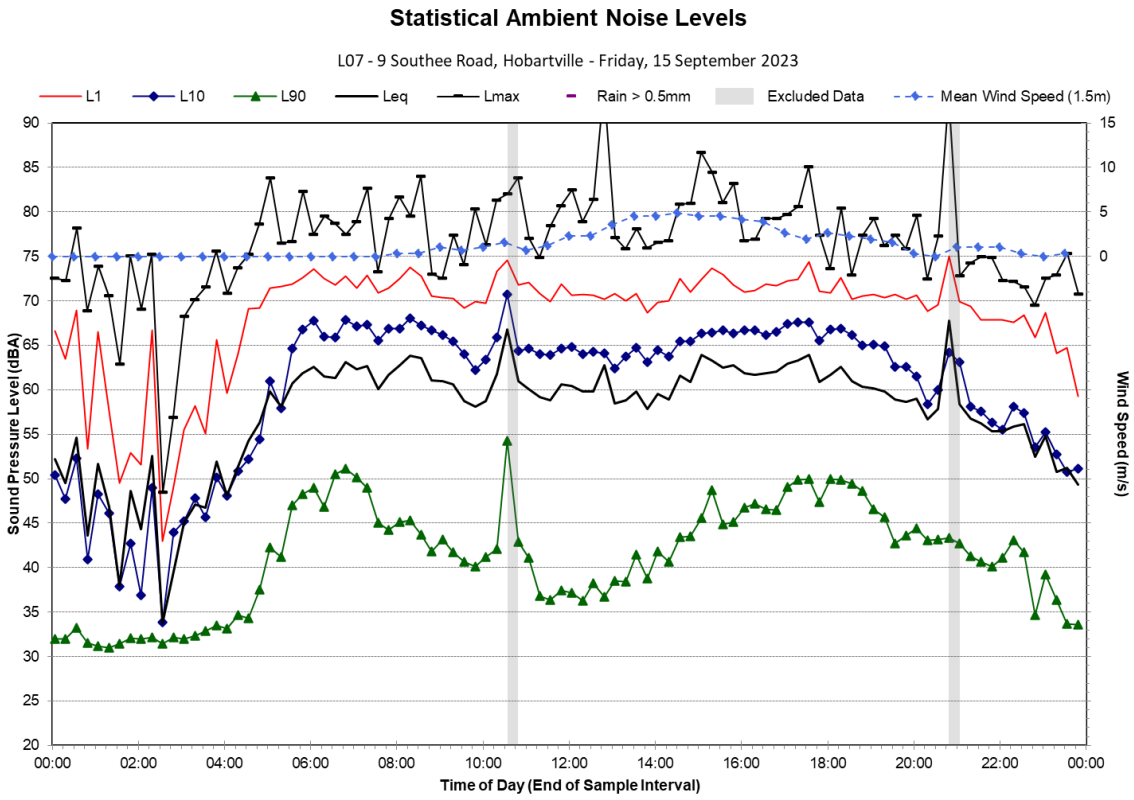


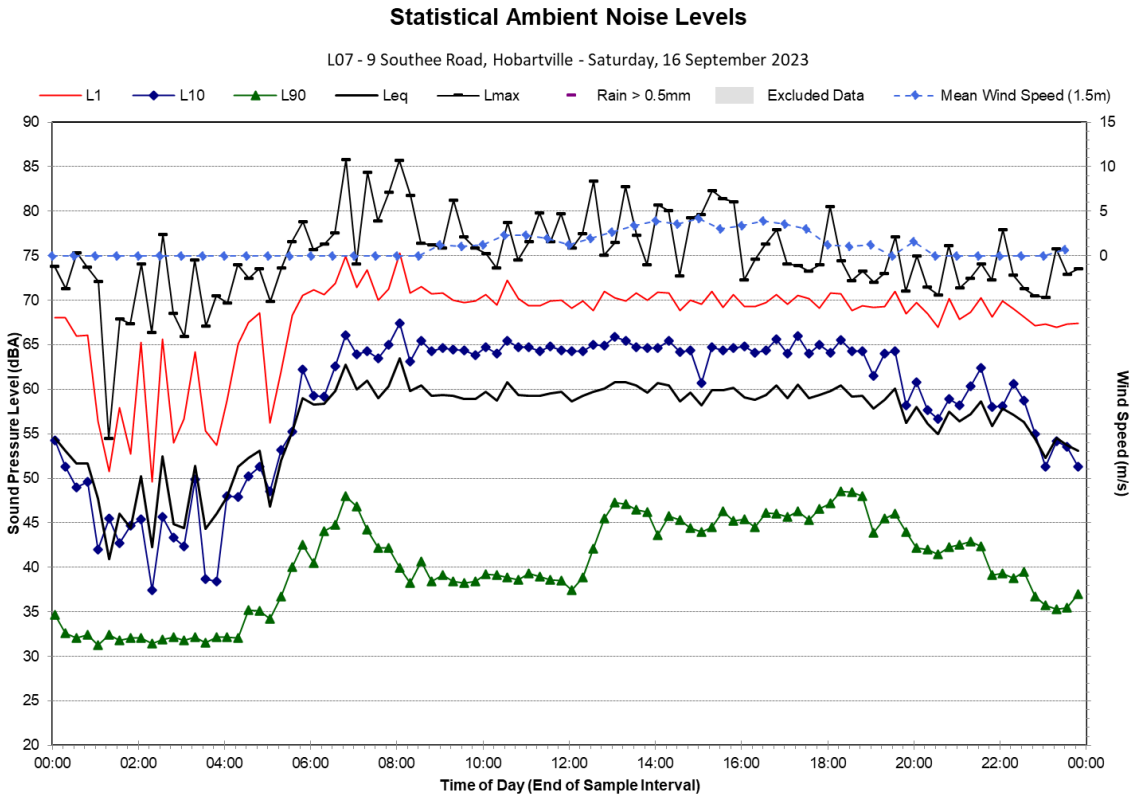

Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Monday, 11 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

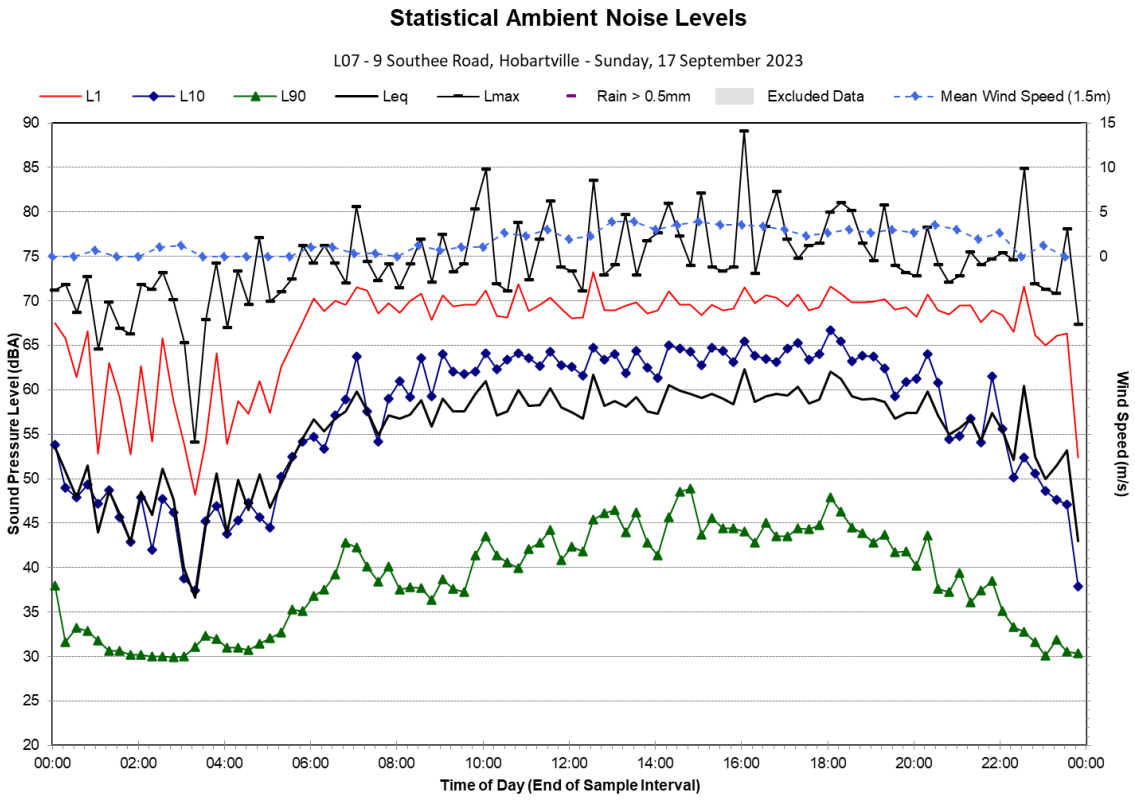

Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Tuesday, 12 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

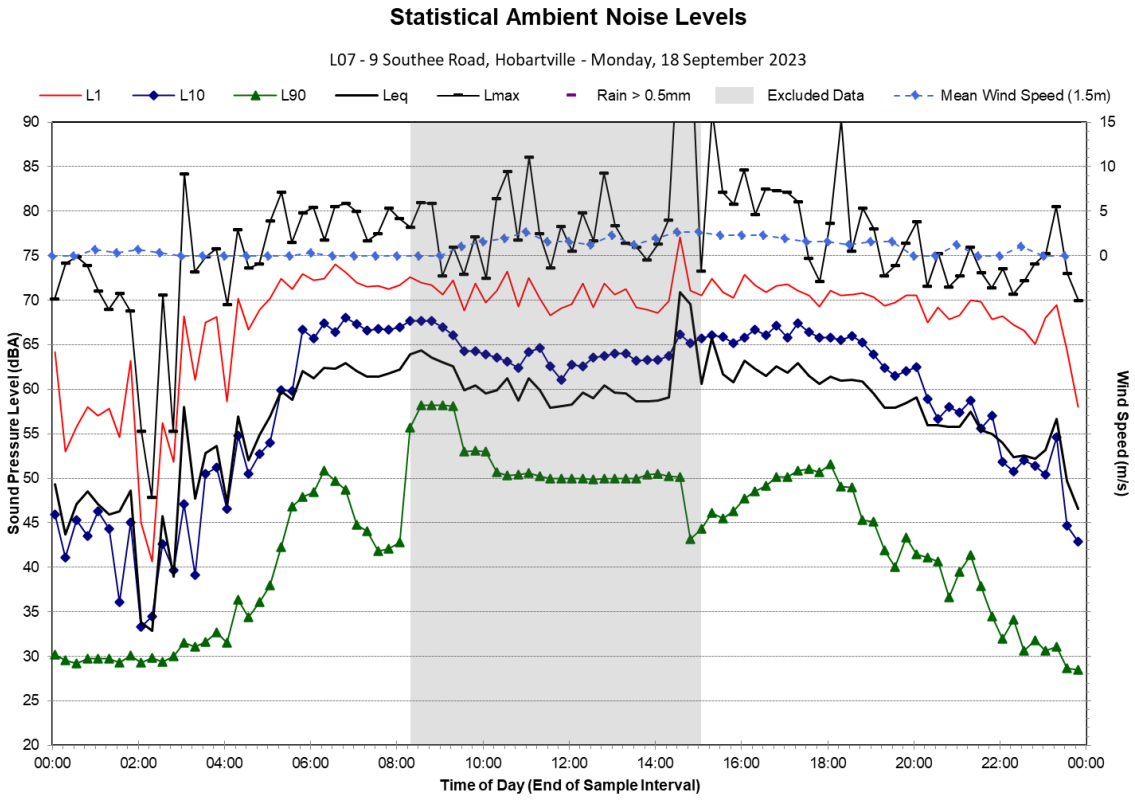

Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Wednesday, 13 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

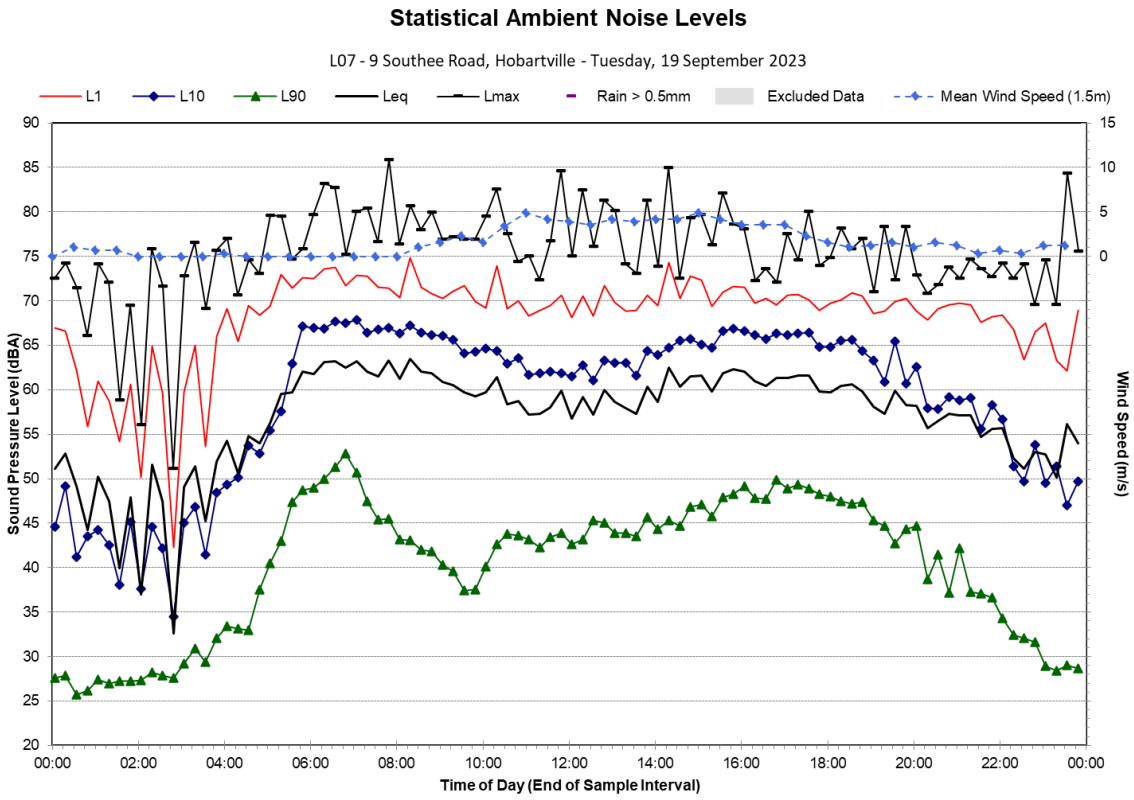

Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Thursday, 14 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

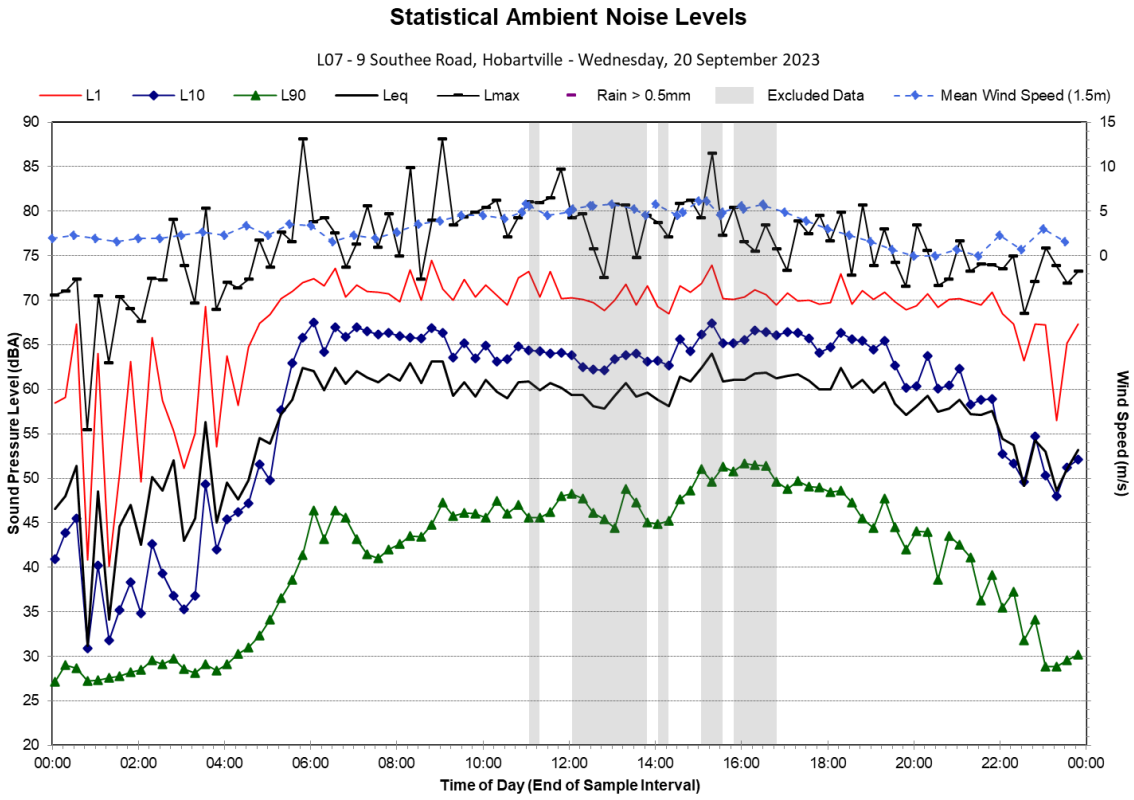

Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Friday, 15 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

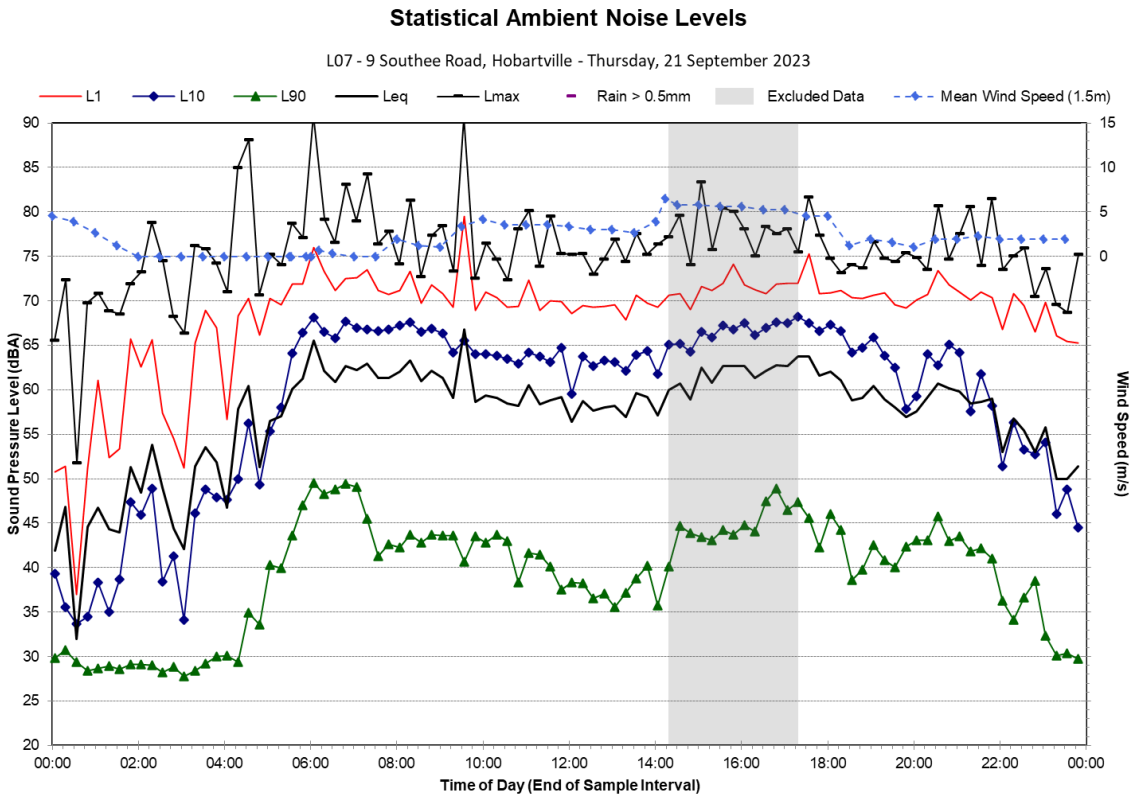

Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Saturday, 16 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

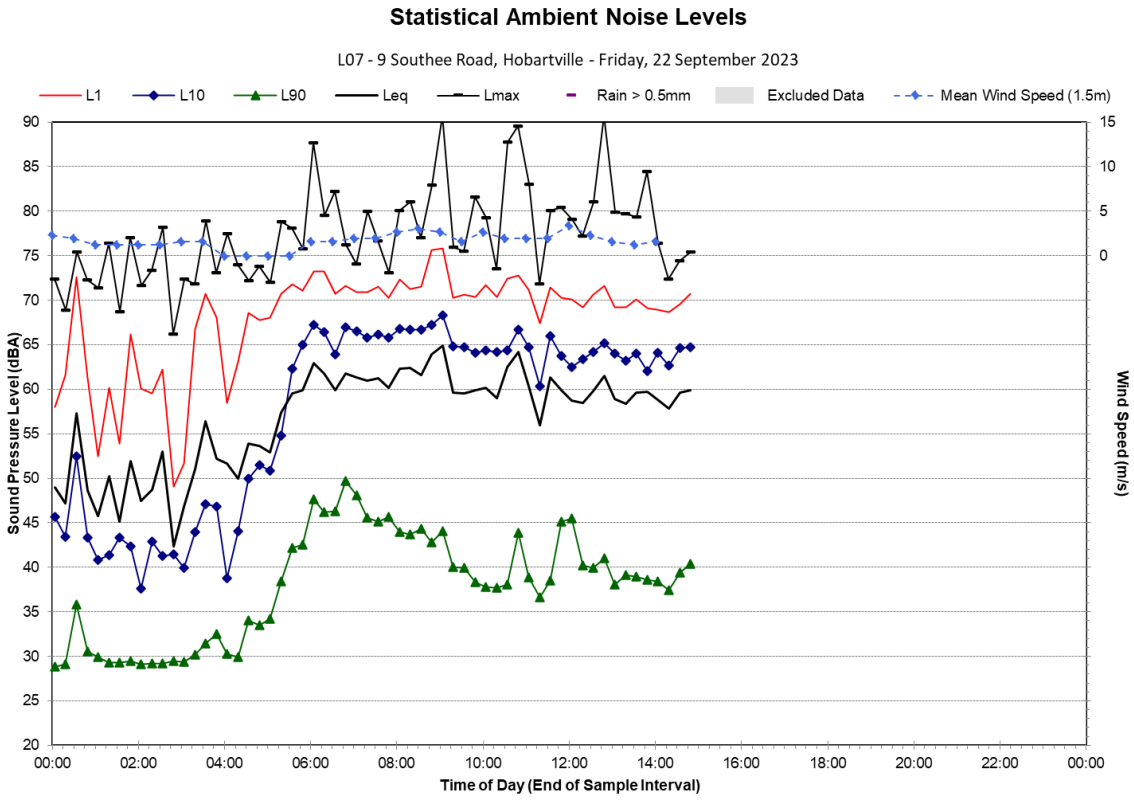

Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Sunday, 17 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Monday, 18 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Tuesday, 19 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Wednesday, 20 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Thursday, 21 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L07 - 9 Southee Road, Hobartville - Friday, 22 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Noise Monitoring Location	L.08	Map of Noise Monitoring Location
Noise Monitoring Address	**97 Southee Road, North Richmond**	

Logger Device Type: Svantek 957, Logger Serial No: 20664

Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004636

Ambient noise logger deployed at 97 Southee Road Hobartville. Logger located on fence line of the property along Southee Road.

Attended noise measurements indicate the ambient noise environment at this location is controlled by road traffic noise.

Recorded Noise Levels (LAmax) 11/09/2023:

Light vehicles – 62 to 79 dBA
Heavy Vehicles – 77 to 85 dBA
Birds – 44 to 48
Aircraft – 55 dBA

Photo of Noise Monitoring Location



Ambient Noise Logging Results ICNG Defined Time Periods

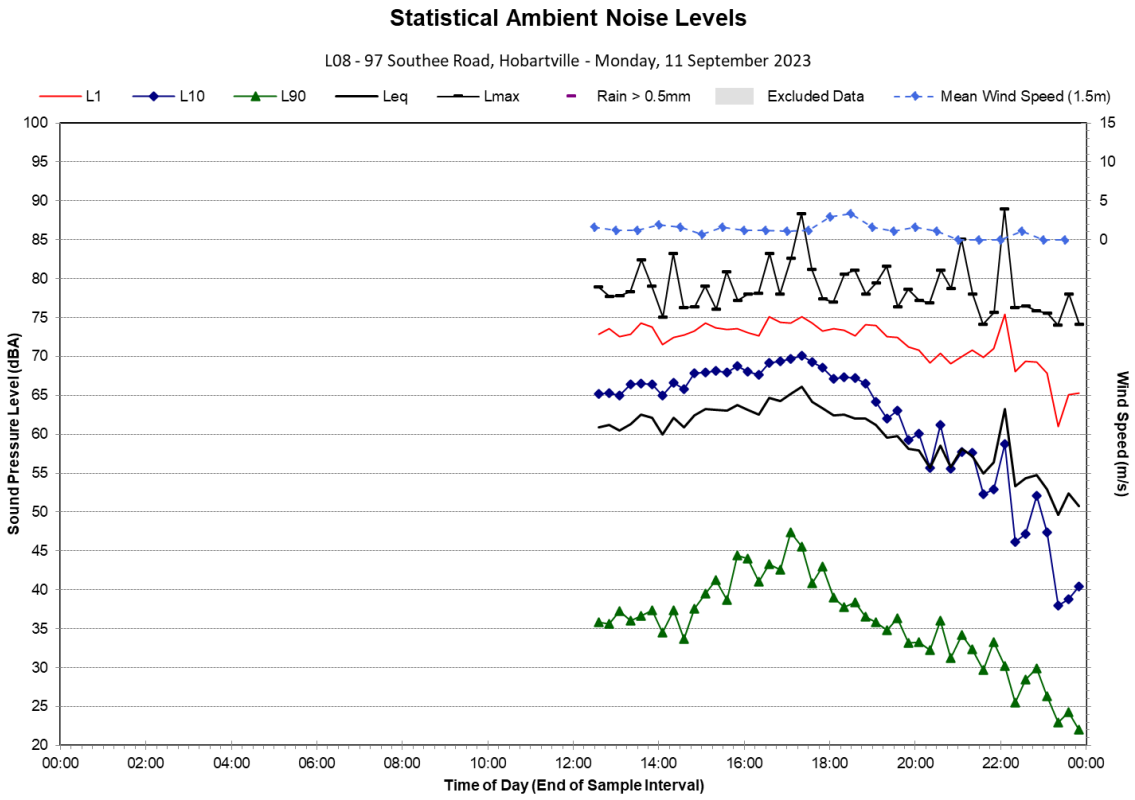
Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	37	63	67	73
Evening	34	60	60	72
Night-time	<25	57	46	67

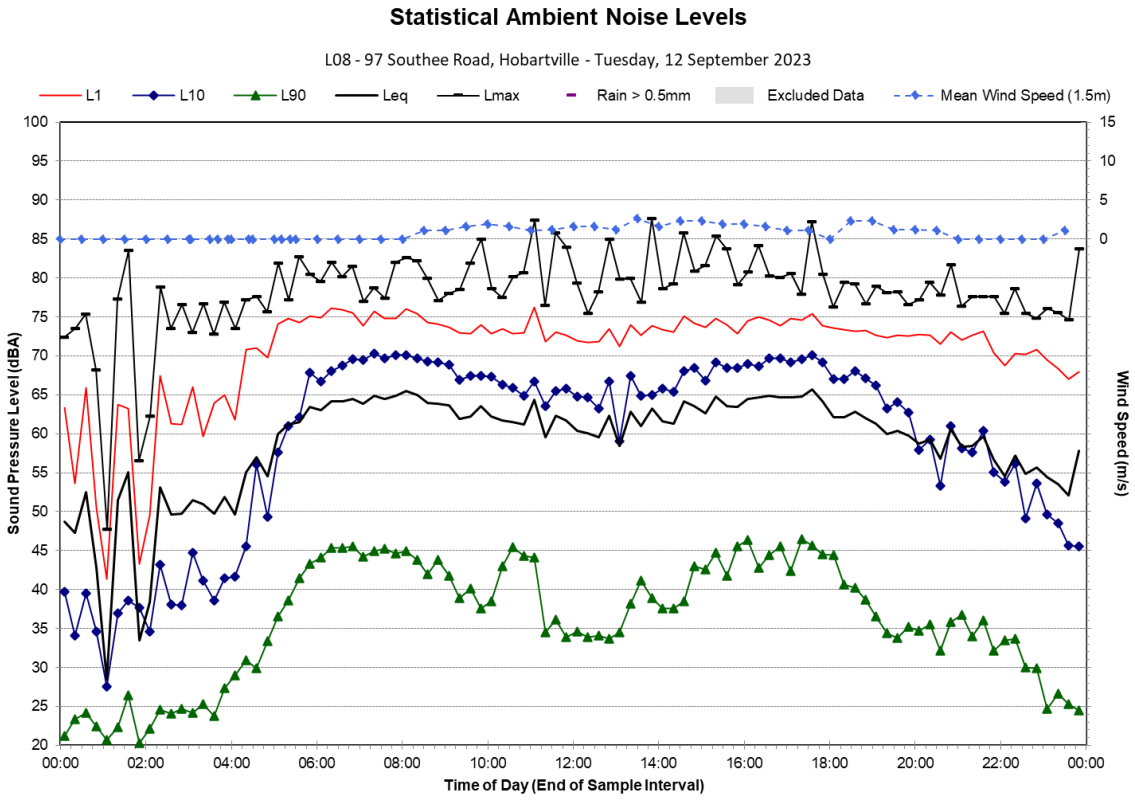
Ambient Noise Logging Results RNP Defined Time Periods

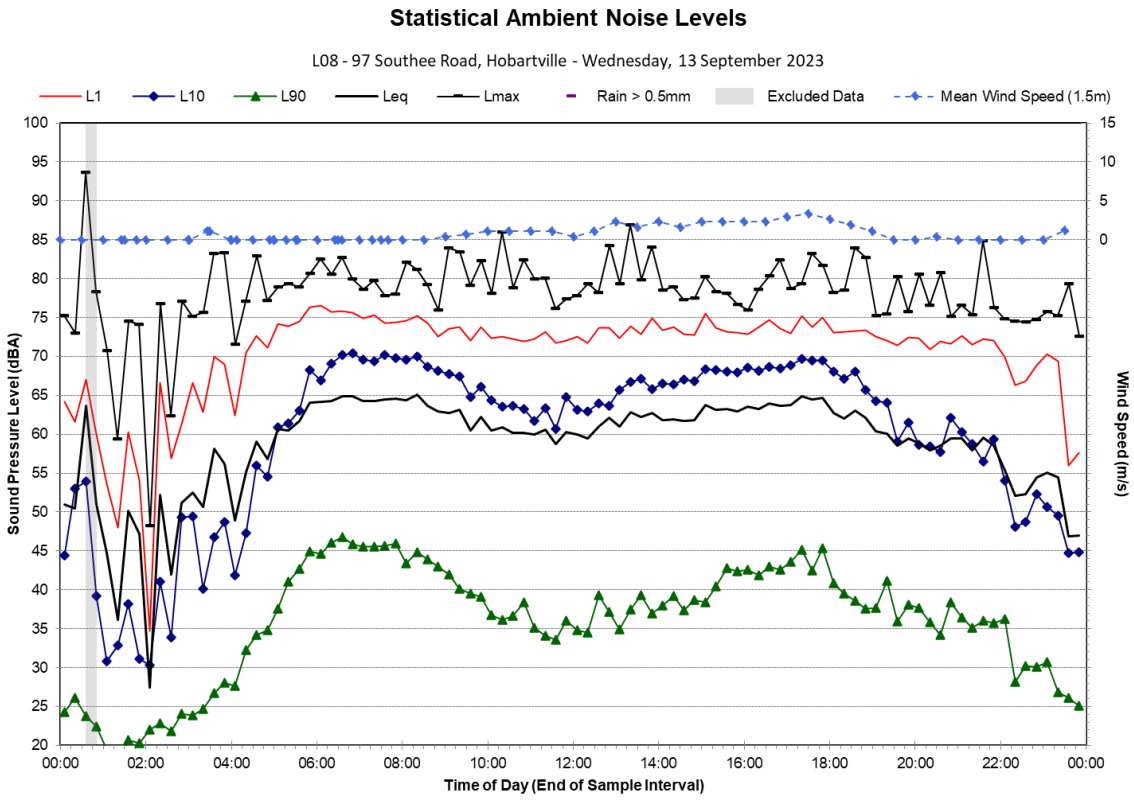
Monitoring Period	Noise Level (dBA)	
	LAeq(period)	LAeq(1hour)
Daytime (7am-10pm)	62	64
Night-time (10pm-7am)	58	63

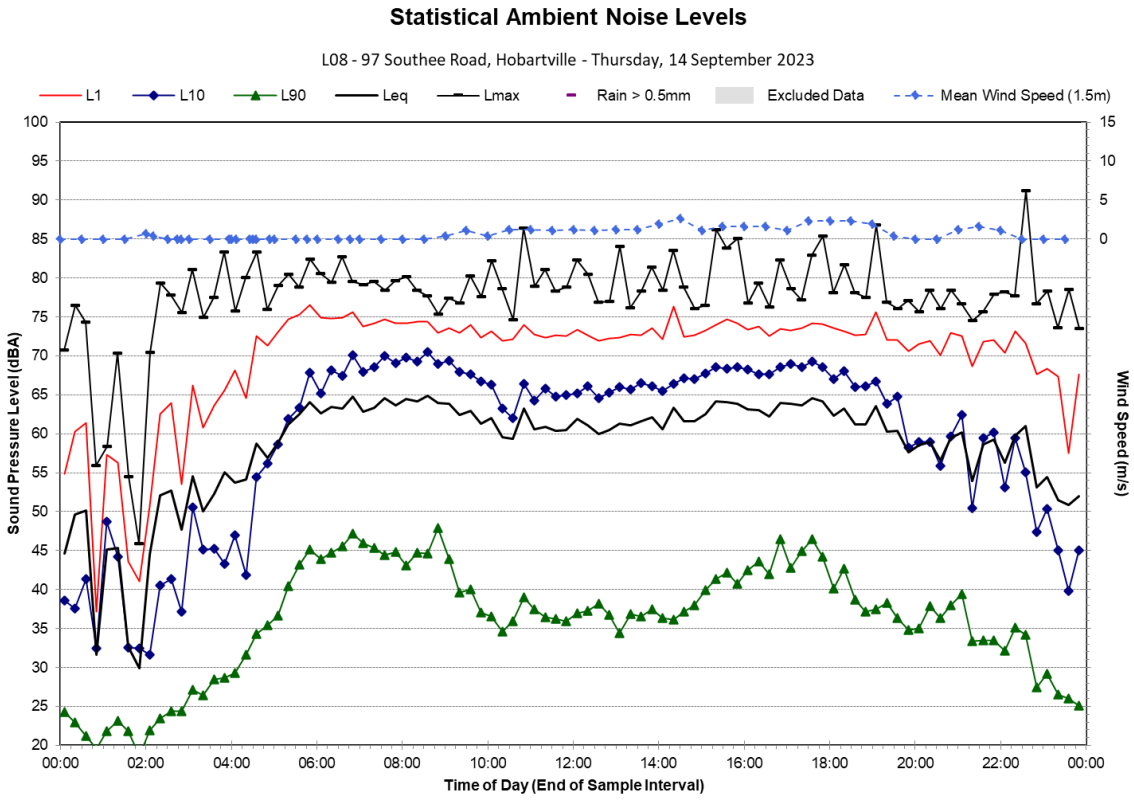
Attended Noise Measurement Results

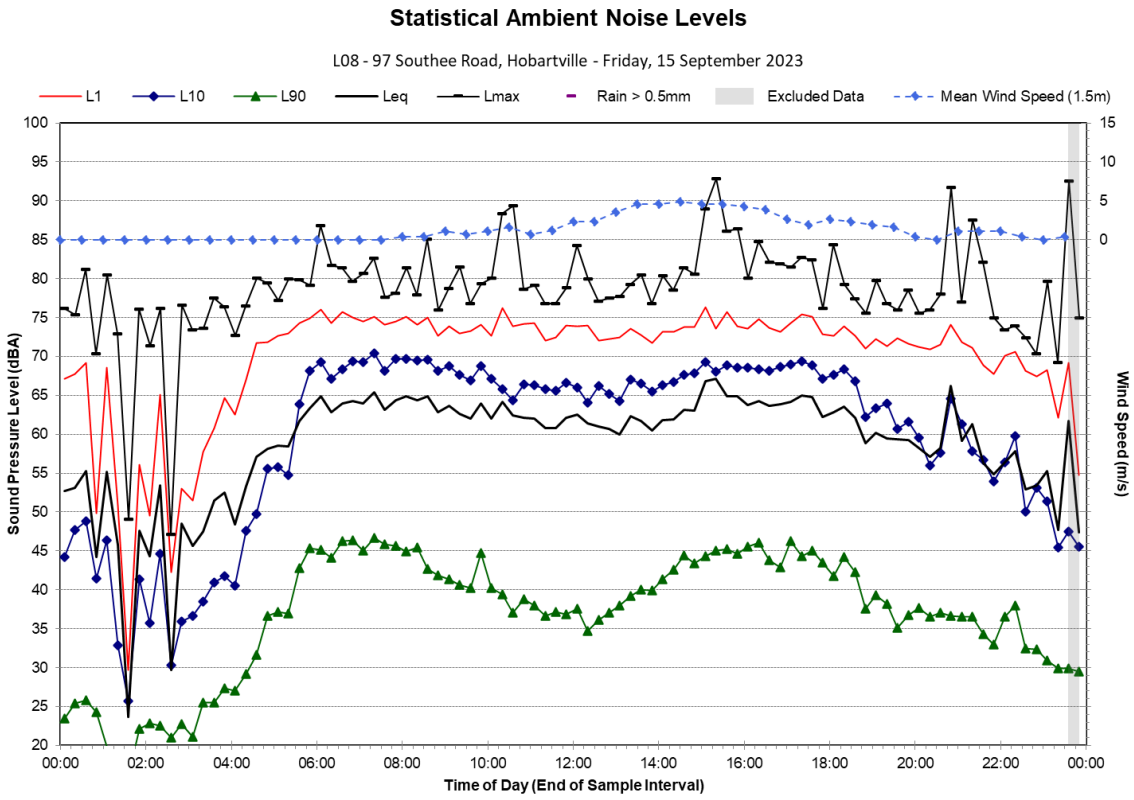
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmax
11/09/2023	12:08	37	63	85

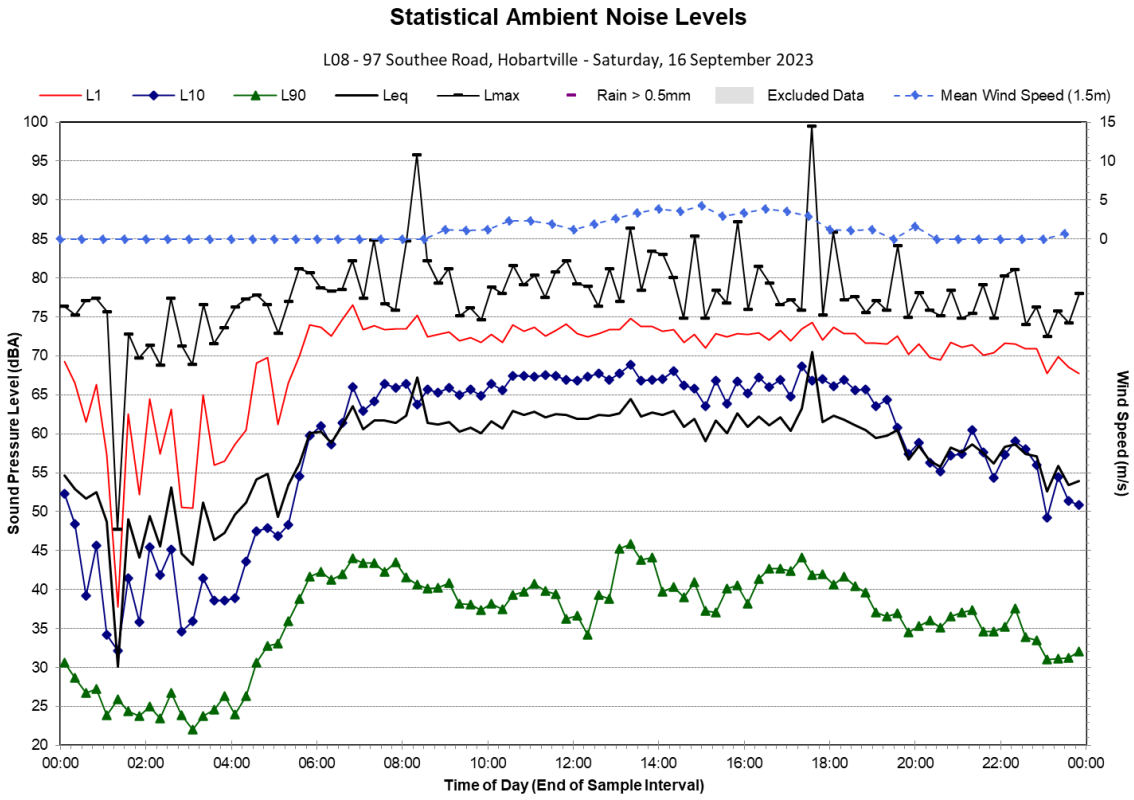

Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Monday, 11 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

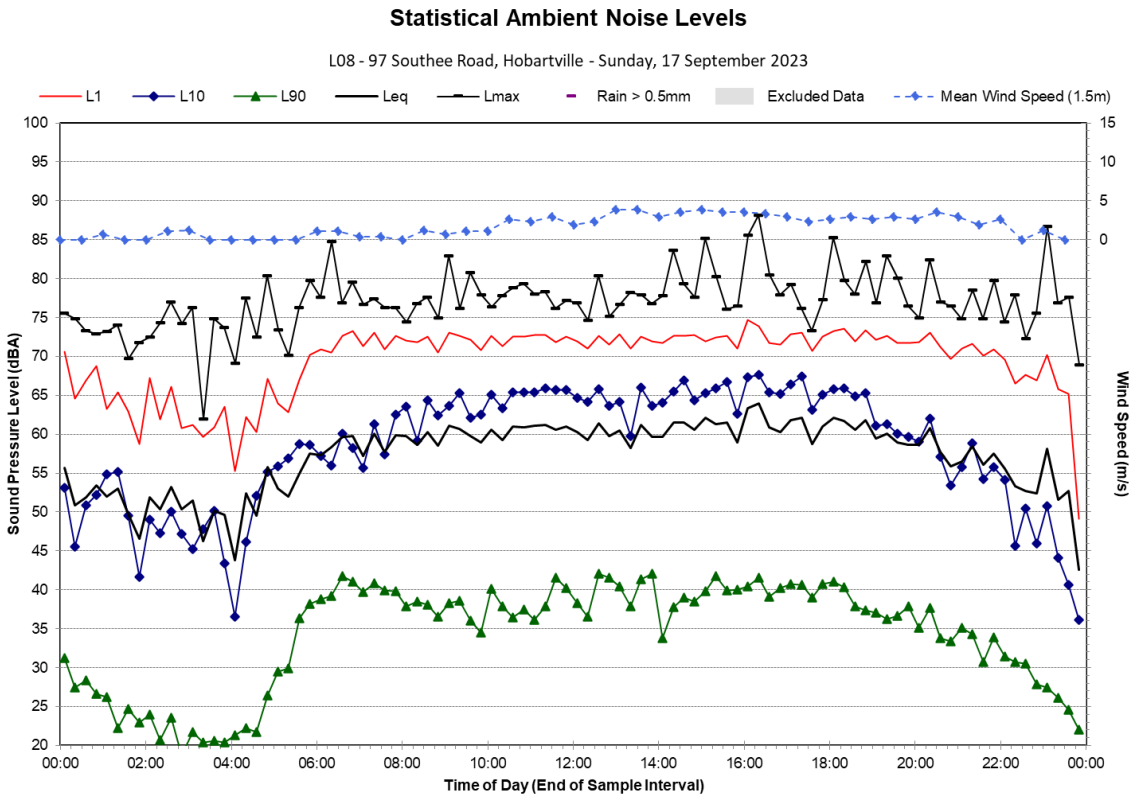

Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Tuesday, 12 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

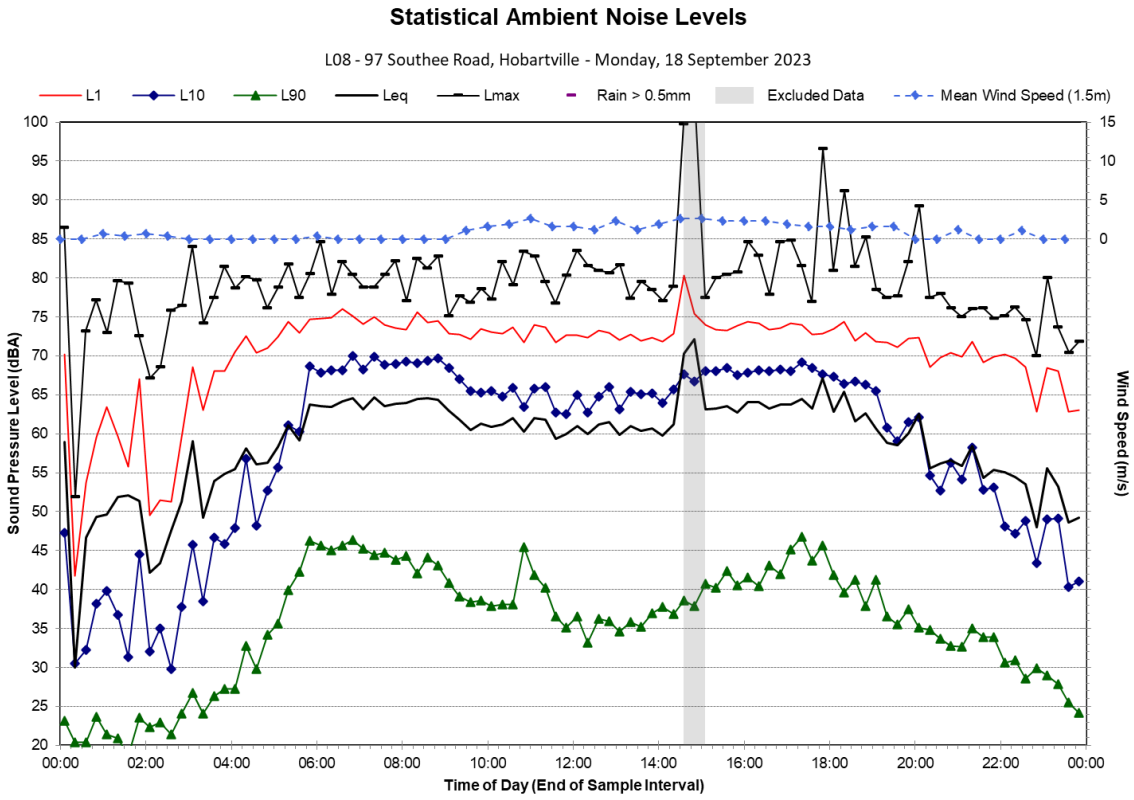

Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Wednesday, 13 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

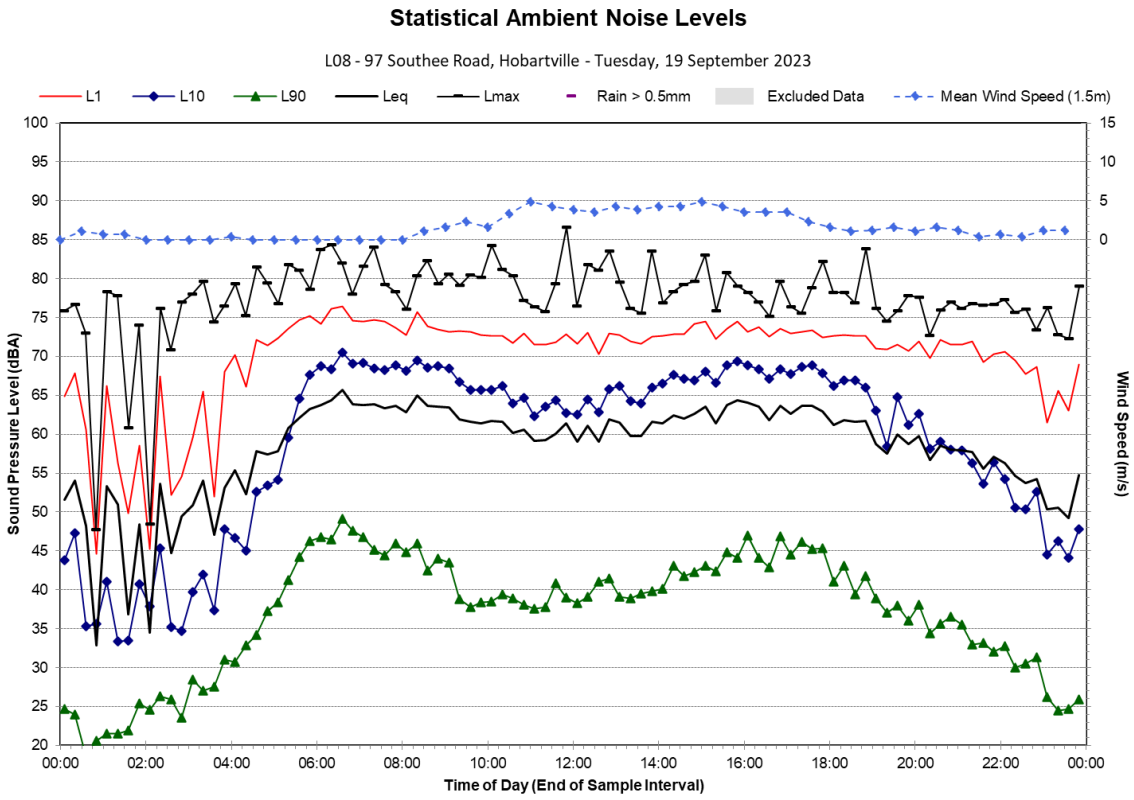

Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Thursday, 14 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

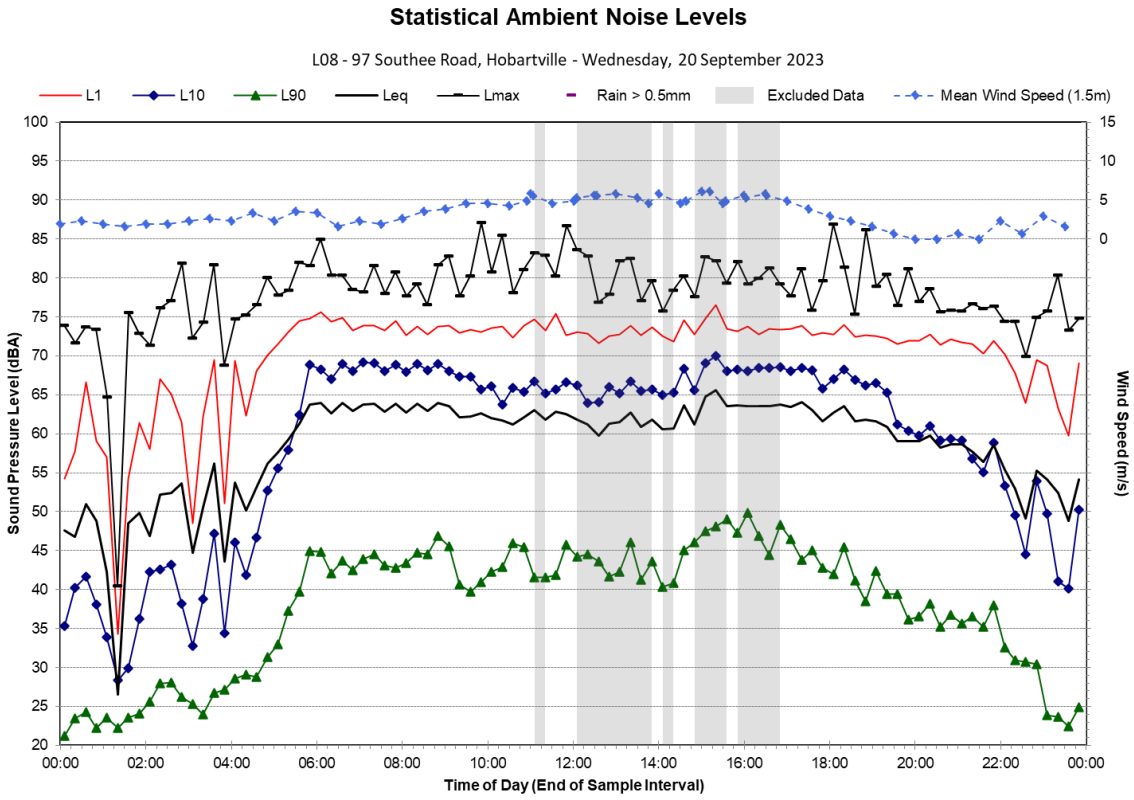

Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Friday, 15 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

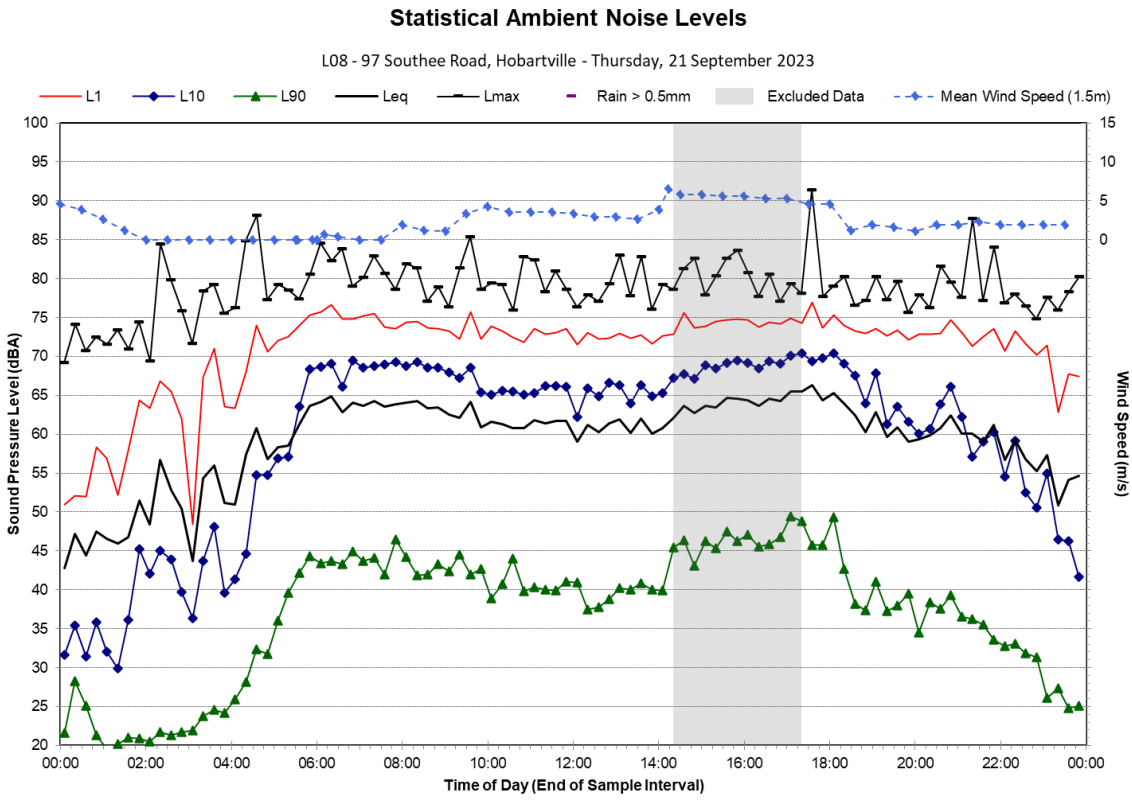

Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Saturday, 16 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

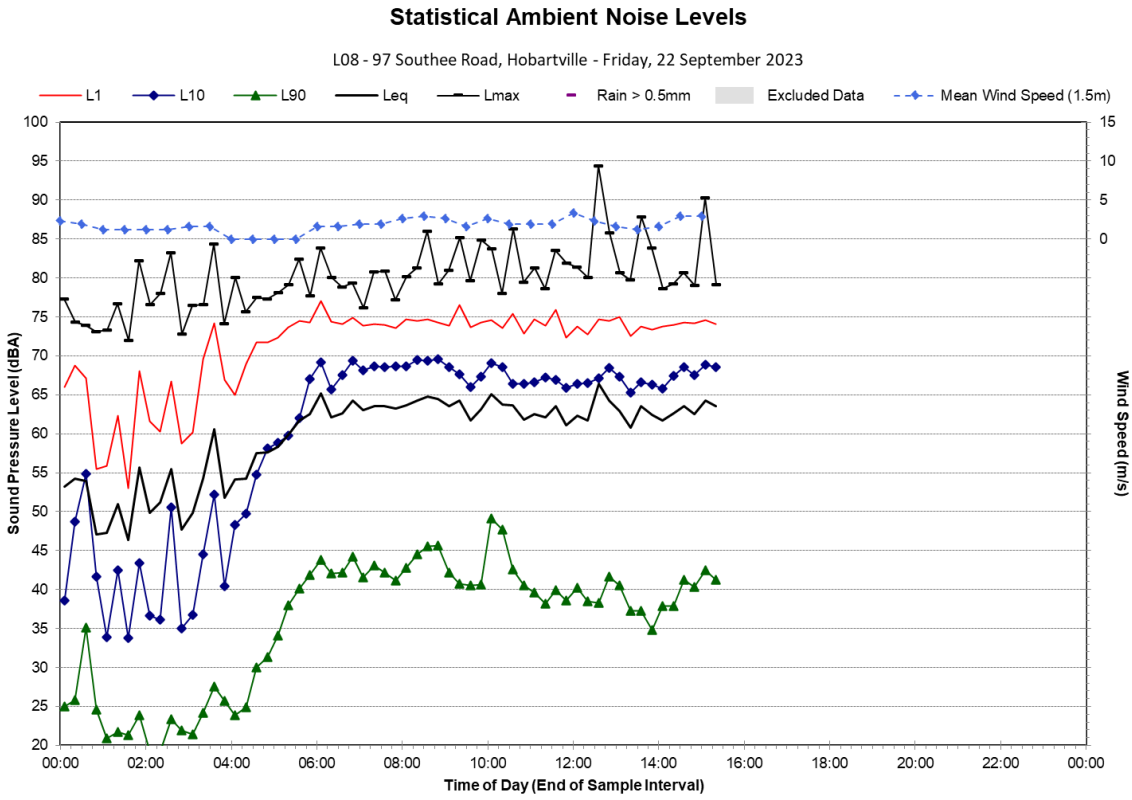

Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Sunday, 17 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Monday, 18 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Tuesday, 19 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Wednesday, 20 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Thursday, 21 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L08 - 97 Southee Road, Hobartville - Friday, 22 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Noise Monitoring Location	L.09	Map of Noise Monitoring Location
Noise Monitoring Address	**25 Chapel Street, Richmond**	

Logger Device Type: Svantek 957, Logger Serial No: 23241
Sound Level Meter Device Type: B&K 2250L, Sound Level Meter Serial No: 3004636
Ambient noise logger deployed at 25 Chapel Street, Richmond. Logger located on fence line south of Kurrajong Road.
Attended noise measurements indicate the ambient noise environment at this location is controlled by road traffic noise.
Recorded Noise Levels (LAmax) 11/09/2023:
Aircraft – 50 to 75 dBA
Light vehicles – 56 to 63 dBA
Heavy Vehicles – 64 to 78 dBA



Photo of Noise Monitoring Location



Ambient Noise Logging Results ICNG Defined Time Periods

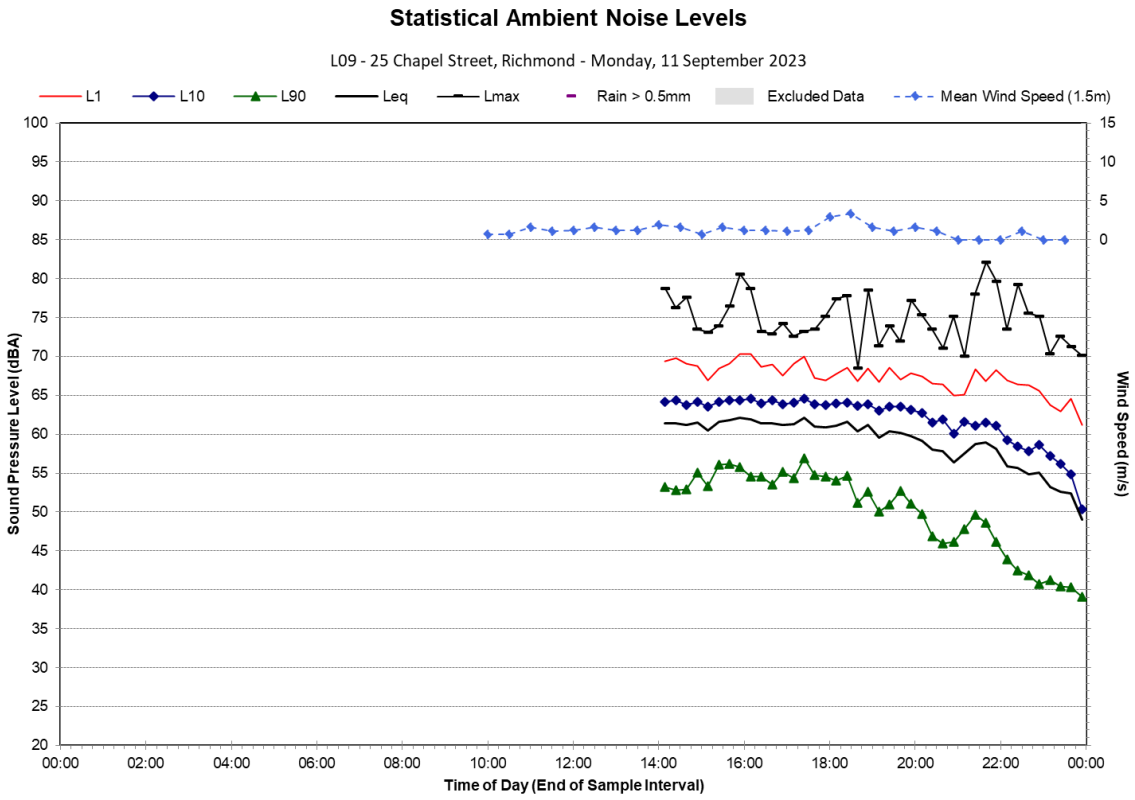
Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	52	62	64	69
Evening	48	59	62	67
Night-time	39	58	57	66

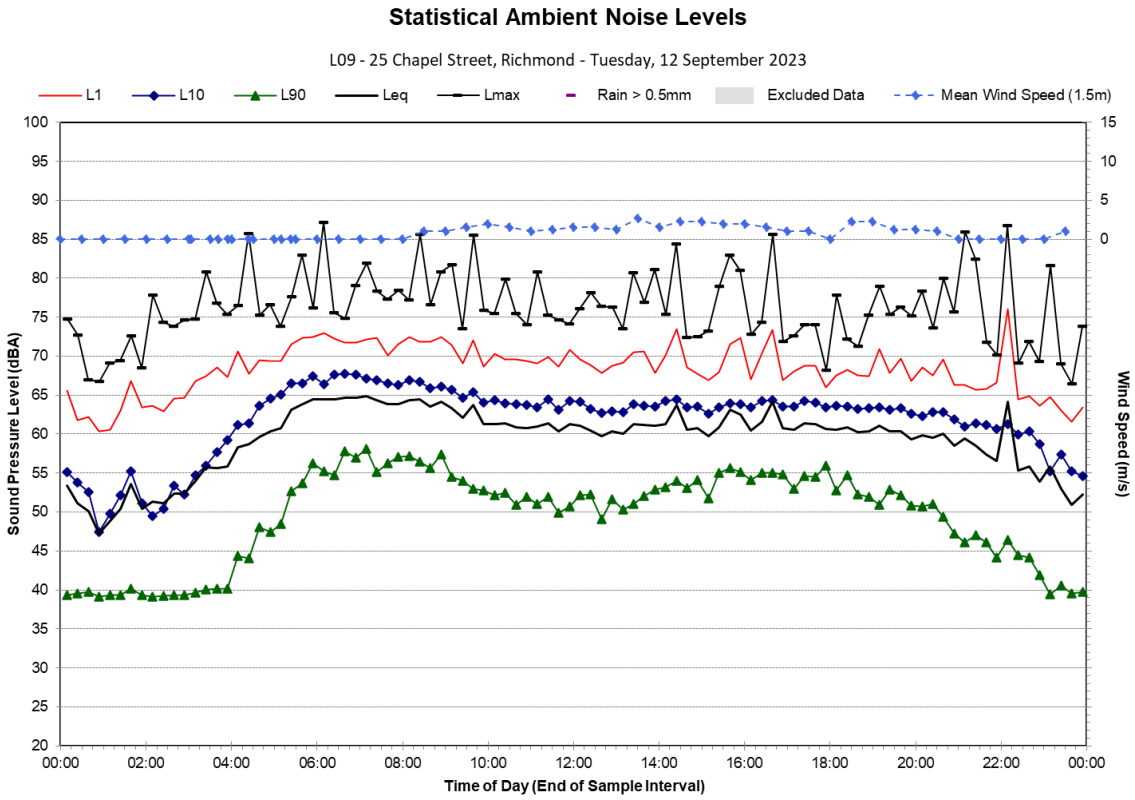
Ambient Noise Logging Results RNP Defined Time Periods

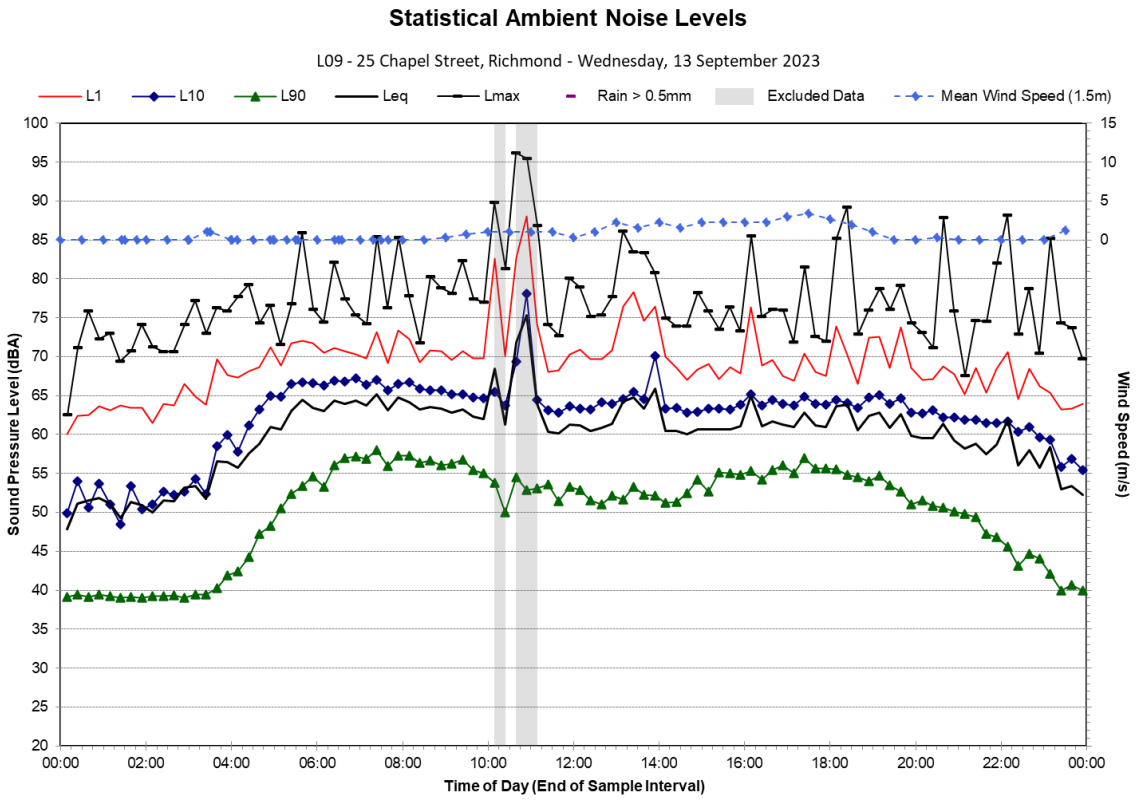
Monitoring Period	Noise Level (dBA)	
	LAeq(period)	LAeq(1hour)
Daytime (7am-10pm)	61	62
Night-time (10pm-7am)	58	64

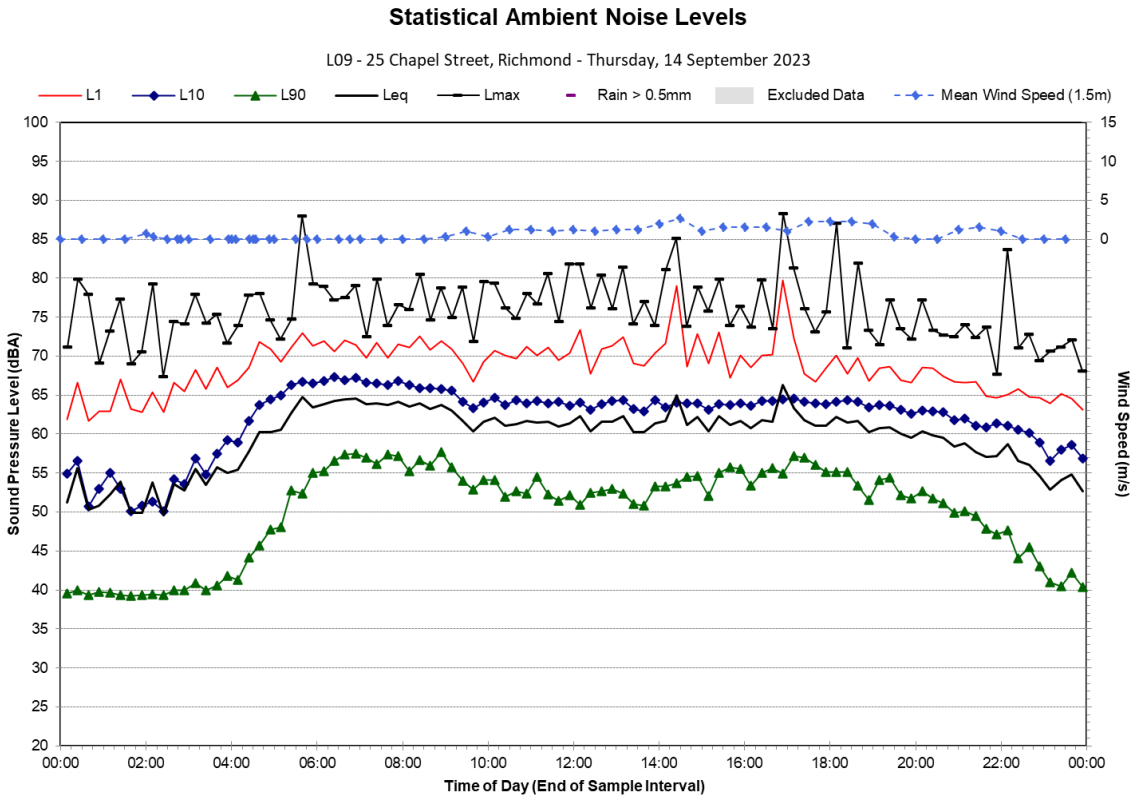
Attended Noise Measurement Results

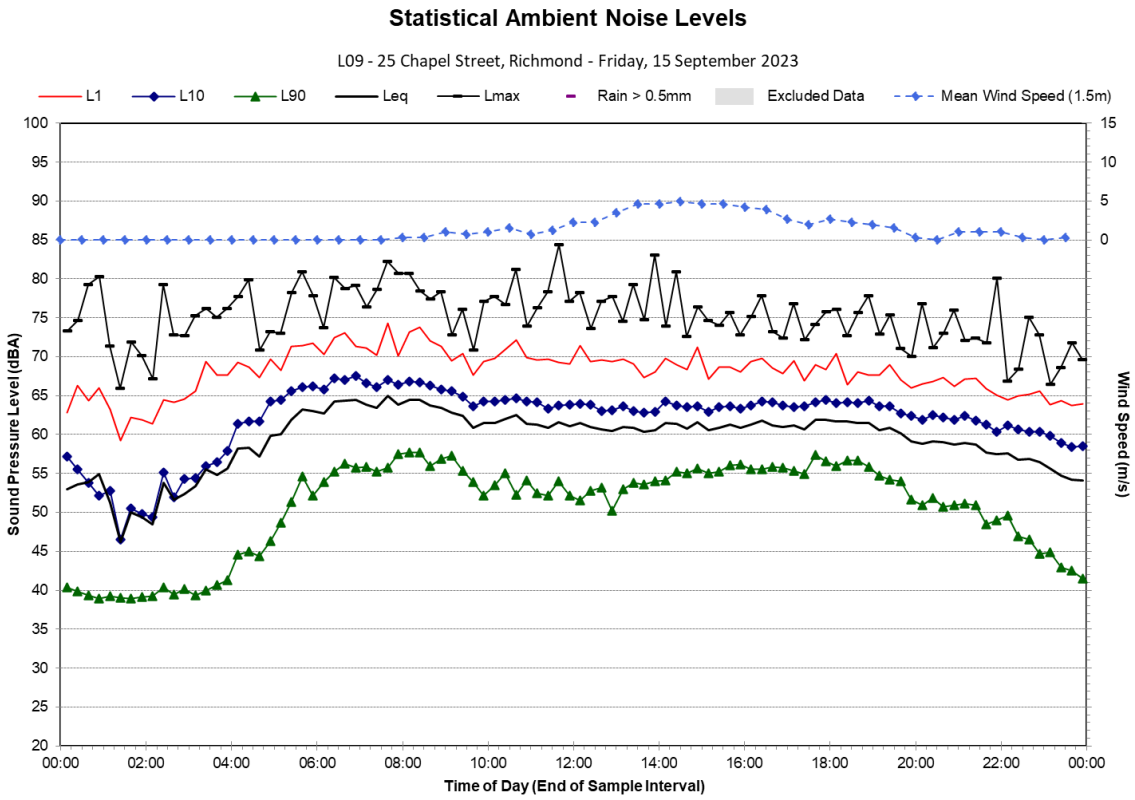
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmax
11/09/2023	13:43	51	61	78

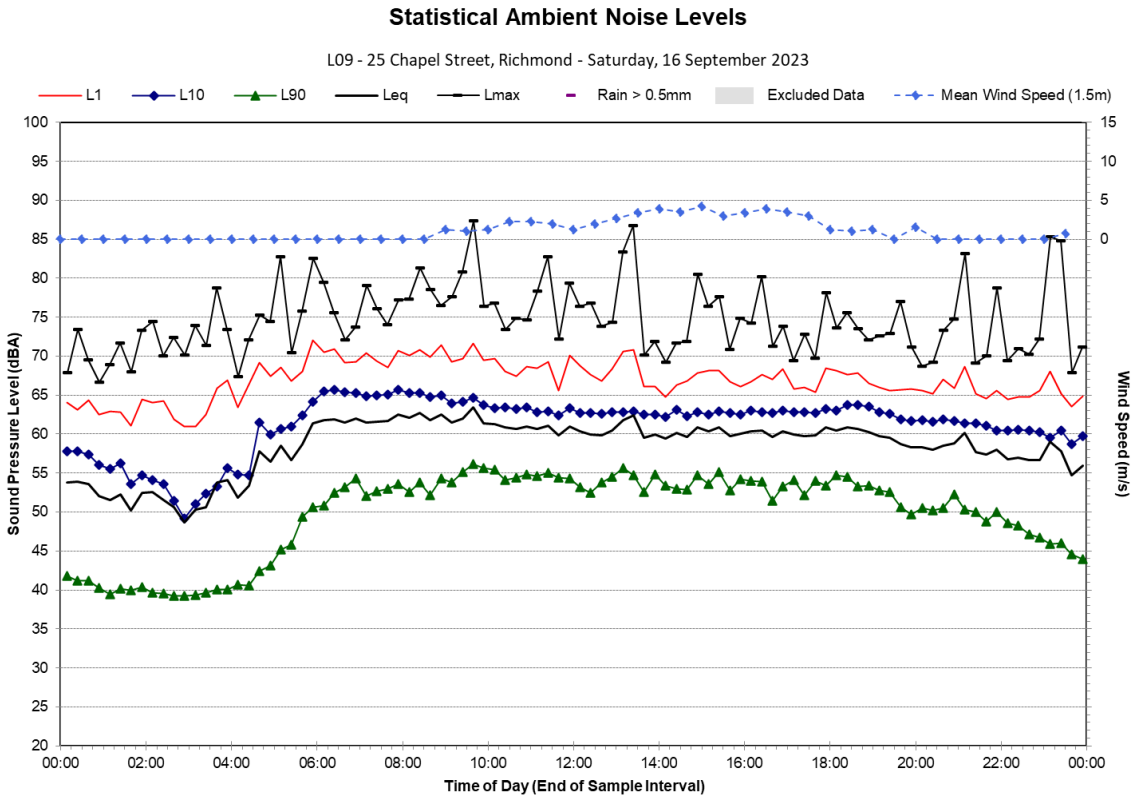

Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Monday, 11 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

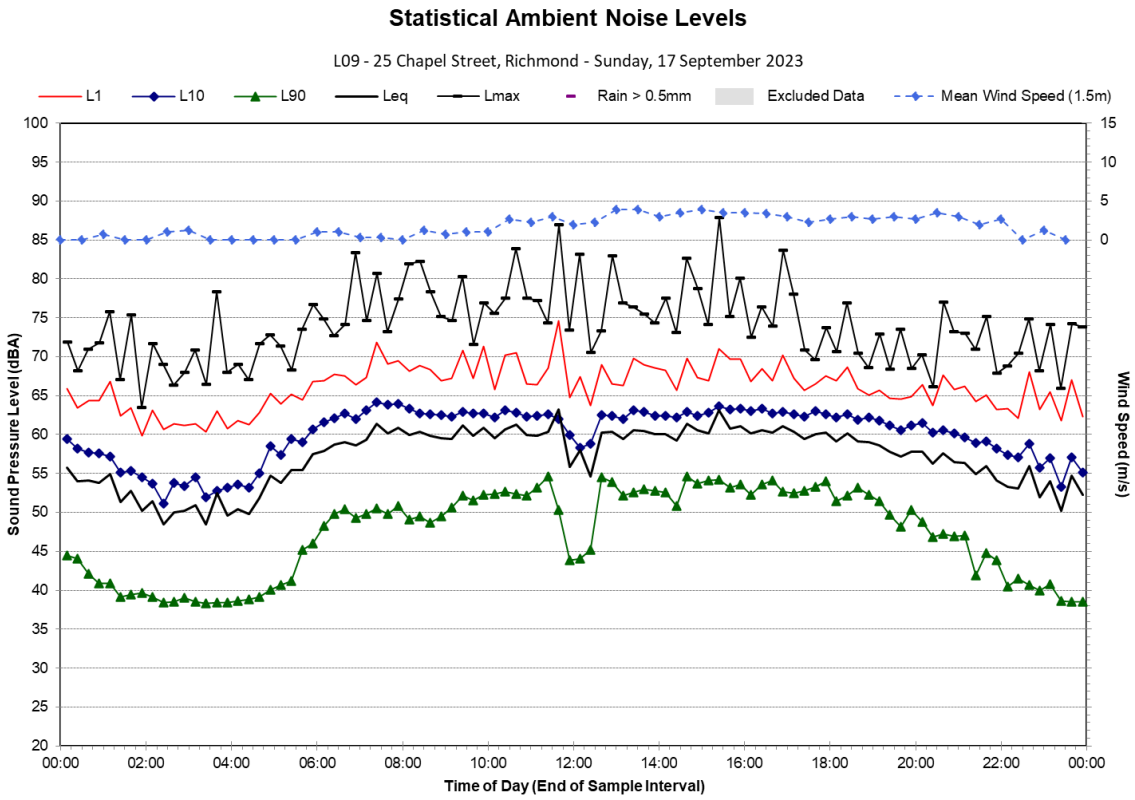

Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Tuesday, 12 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

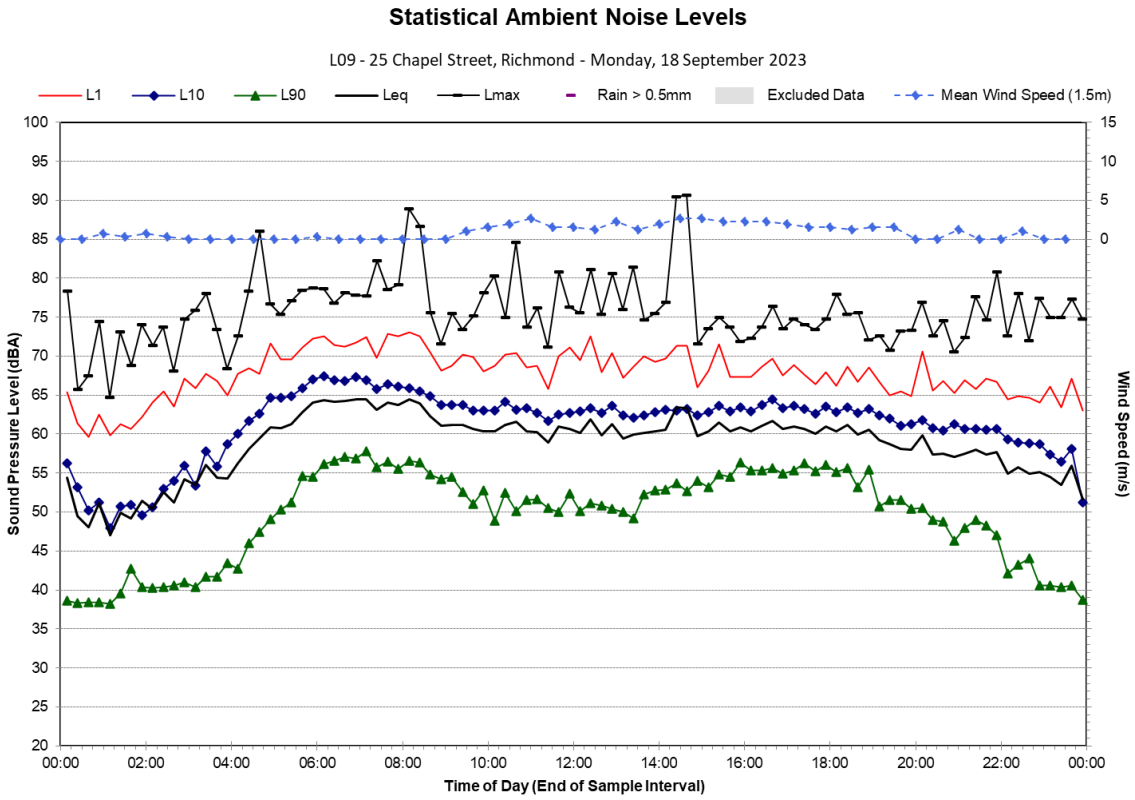

Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Wednesday, 13 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

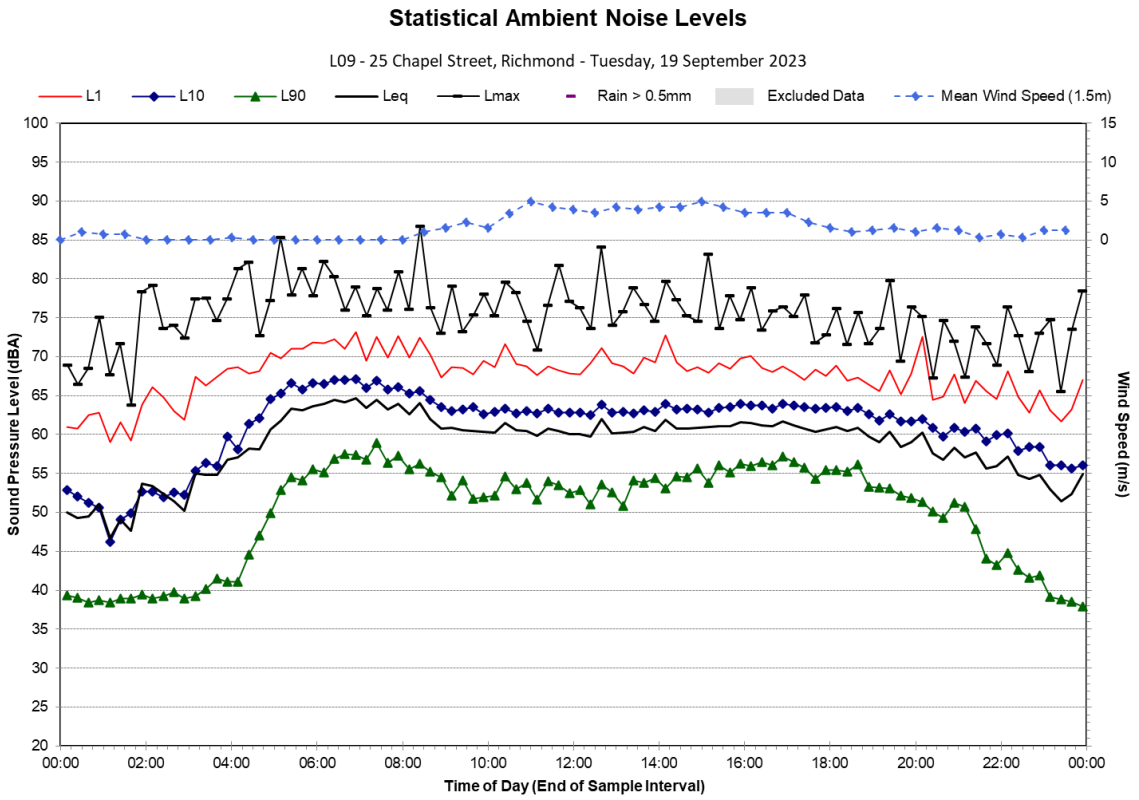

Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Thursday, 14 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

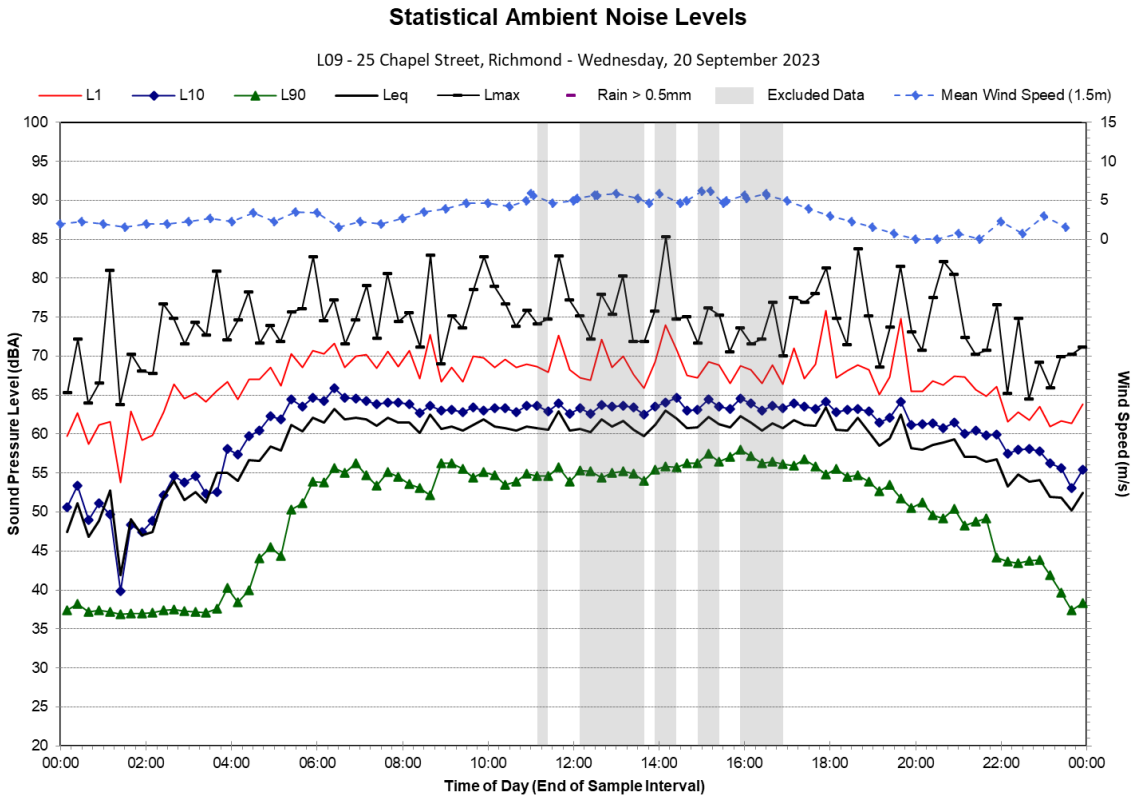

Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Friday, 15 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

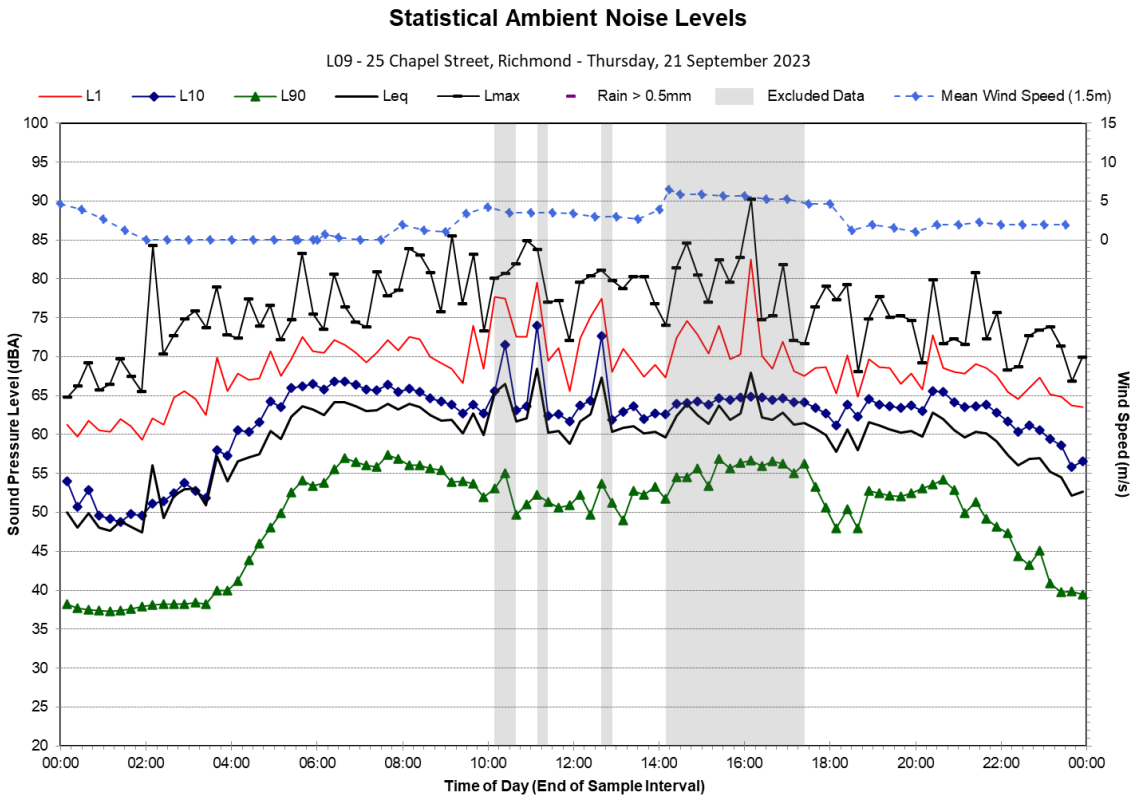

Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Saturday, 16 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

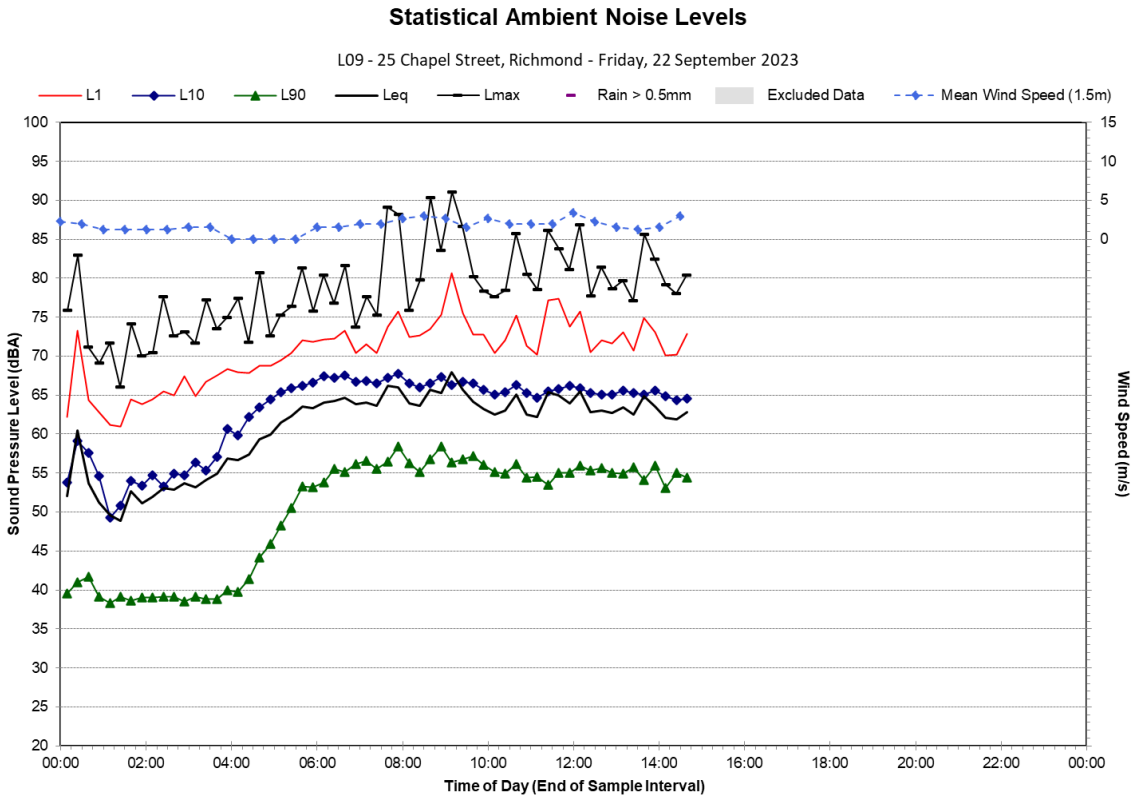

Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Sunday, 17 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Monday, 18 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Tuesday, 19 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Wednesday, 20 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Thursday, 21 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)


Statistical Ambient Noise Levels
L09 - 25 Chapel Street, Richmond - Friday, 22 September 2023
L1
L10
L90
Leq
Lmax
Rain > 0.5mm
Excluded Data
Mean Wind Speed (1.5m)
Sound Pressure Level (dBA)
Wind Speed (m/s)
Time of Day (End of Sample Interval)

Appendix C: Construction information

Table 1: Equipment lists and sound power levels

Equipment			Asphalt Milling Machine[1]	Auger Drill Rig	Back Hoe (7.5 tonne JCB)	Bitumen Spray Truck	Chainsaw[1]	Chipper	Compactor	Concrete Mixer Truck	Concrete Pump	Concrete Saw[1]	Dozer	Excavator (22 tonne)	Generator	Grader	Hand Tools (electric)	Lighting Diesel Generator	Line Marking Plant	Mobile Crane Franna	Mobile Crane (35 tonne)	Mobile Crane (400 tonne)	Paving Machine	Piling Bored	Road Profiler	Roller Vibratory (12 tonne)[1]	Truck	Ute	Vehicle (4WD)	Water Tanker (8000 litre)	Welding Equipment	Excavator (35t)
Sound Power Level[2]			111	111	102	100	114	120	108	103	106	119	114	99	102	108	96	98	98	98	98	106	105	111	107	109	107	98	103	98	97	110
On-time in 15-minute period			15	15	15	15	5	15	15	7.5	7.5	5	15	7.5	15	15	15	15	15	7.5	15	15	15	7.5	15	15	5	15	5	5	15	7.5
Ref	**Scenario**	**SWL**																														
W.01	Early Works - Existing Bridge Only	106															X	X									X	X			X	
W.02	Establishment Works - Peak	121					X	X					X	X			X															
W.03	Establishment Works - Typical	105															X				X						X		X			
W.04	Earthworks/Drainage - Peak	118		X					X				X			X										X	X			X		X
W.05	Earthworks/Drainage - Typical	108																			X						X		X	X		X
W.06	Bridge Construction - Peak	115		X						X	X				X		X					X		X			X		X			
W.07	Bridge Construction - Typical	106													X		X					X					X		X			
W.08	Road Works - Peak	117				X				X	X	X			X		X						X		X	X						
W.09	Road Works - Typical	107															X						X				X					
W.10	OOH Road Works - Tie-ins - Peak	117	X									X			X		X	X					X			X						
W.11	OOH Road Works - Tie-Ins - Typical	108															X	X					X				X					
W.12	Landscaping and Finishing Works - Typical	107			X														X		X						X	X				
W.13	Compound - General Operation	105												X			X			X							X	X				

Note 1: Equipment classed as 'annoying' in the ICNG and requires an additional 5 dB correction.

Note 2: Sound power level data is taken from the DEFRA Noise Database, TfNSW Construction and Vibration Guideline (Roads) and TfNSW Construction Noise and Vibration Strategy (Public transport infrastructure).

Note 3: Sound power level includes an additional -5 dB correction to represent 'typical' works when they are not immediately adjacent a particular receive.

Stage 2A construction noise

Figure 1: Stage 2A construction work locations – Bridge works



Figure 2 Stage 2A construction work locations – Establishment works

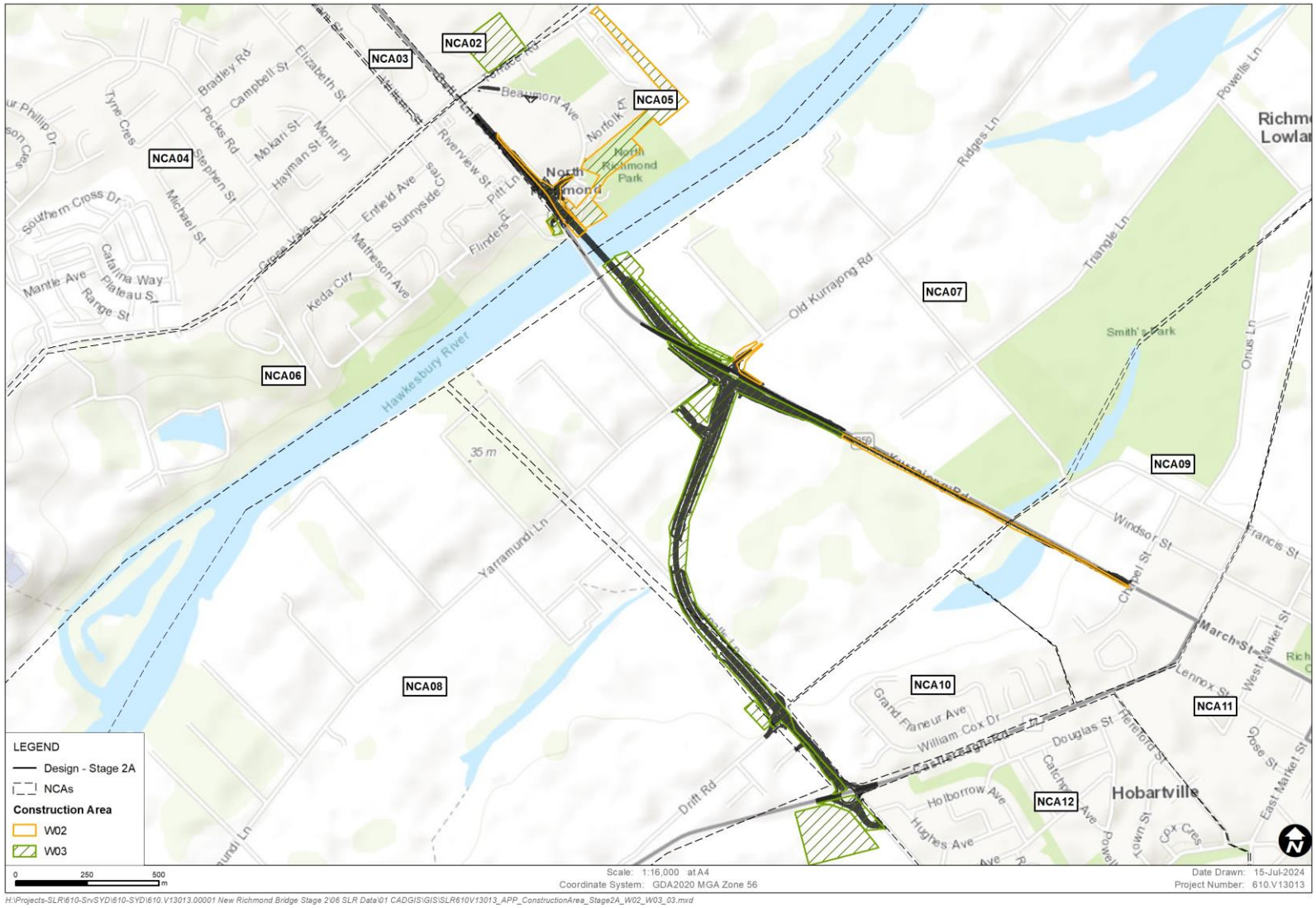


Figure 3 Stage 2A construction work locations – Earthworks/Drainage

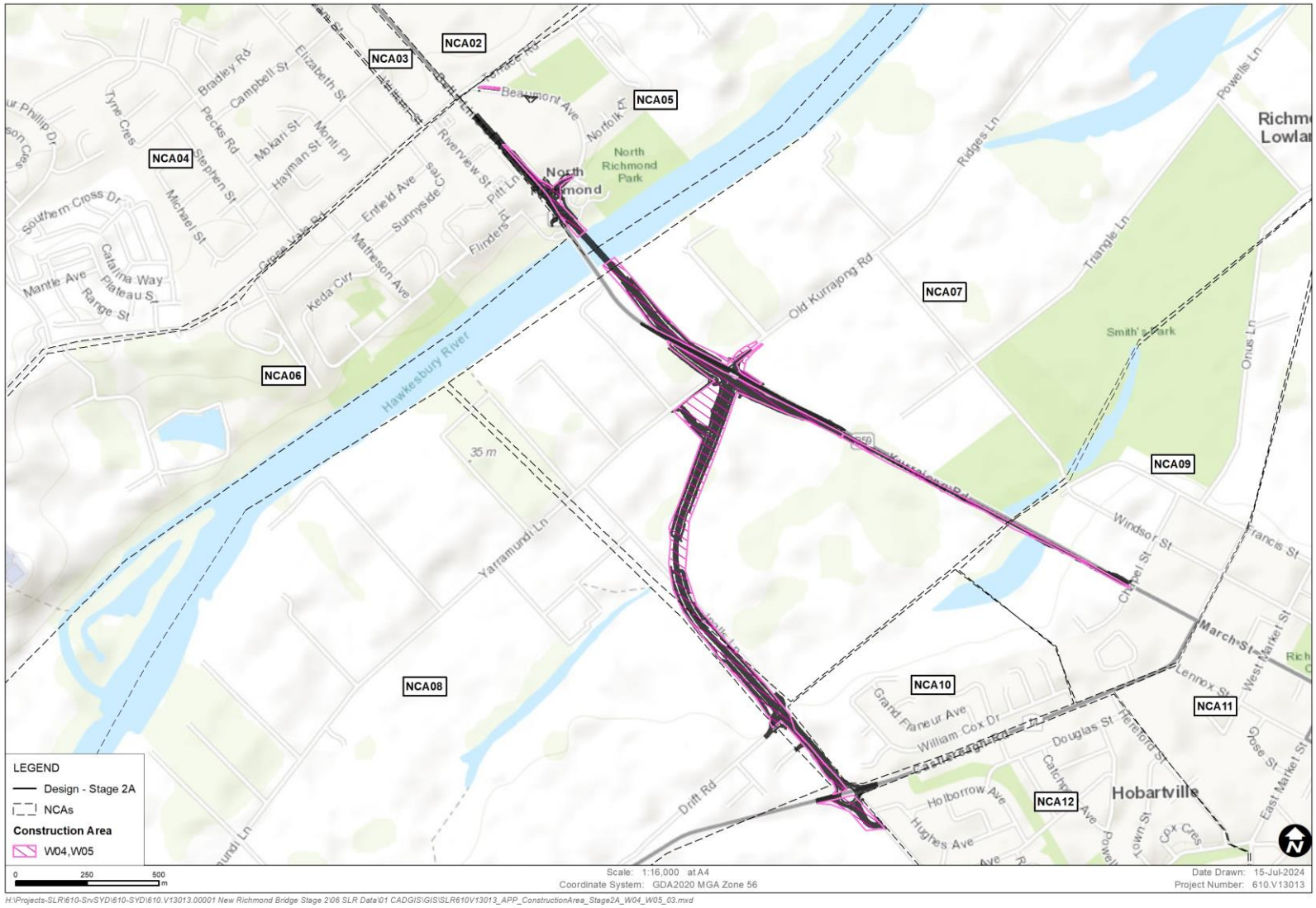


Figure 4 Stage 2A construction work locations – Road works

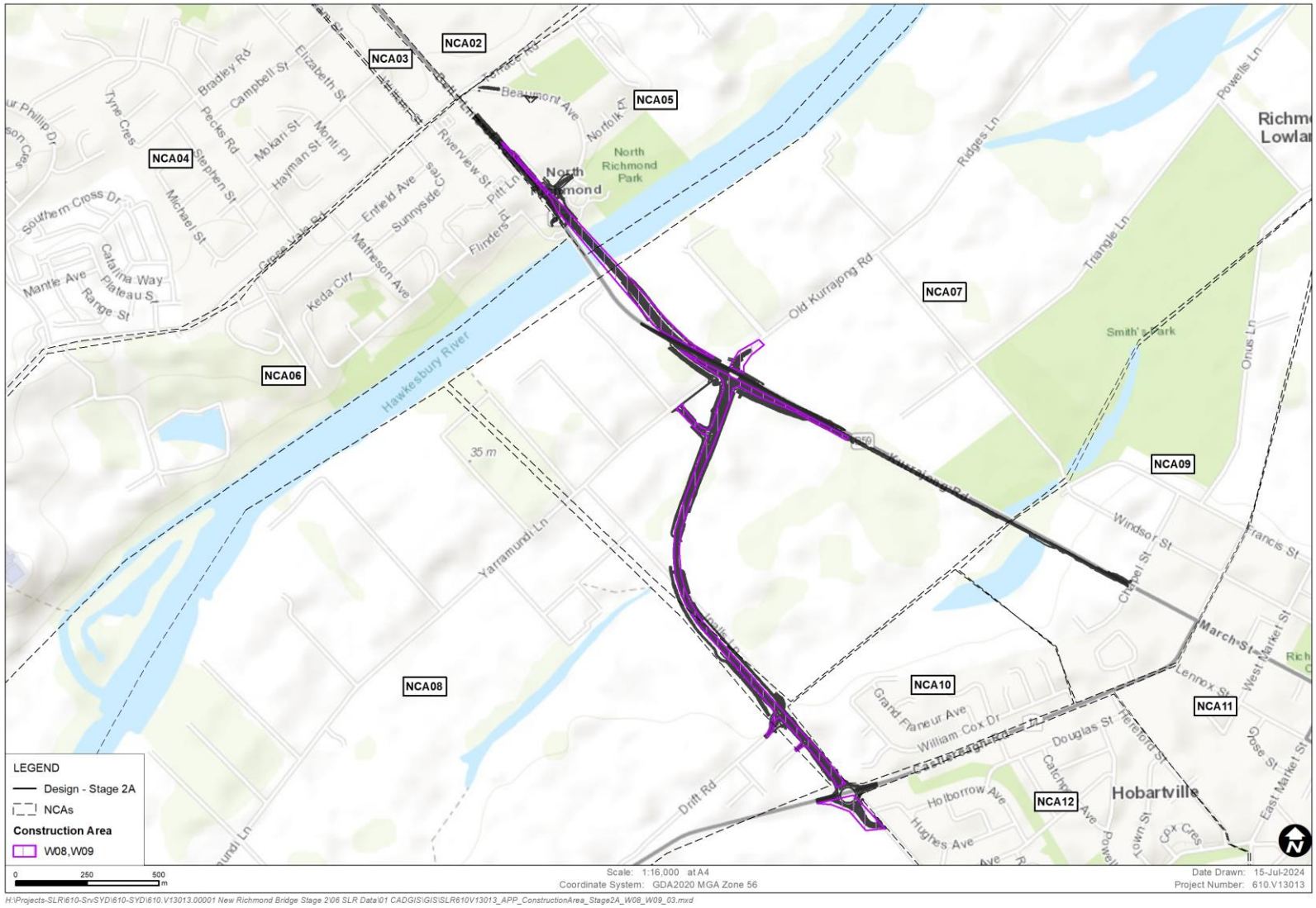


Figure 5 Stage 2A construction work locations – OOH road works

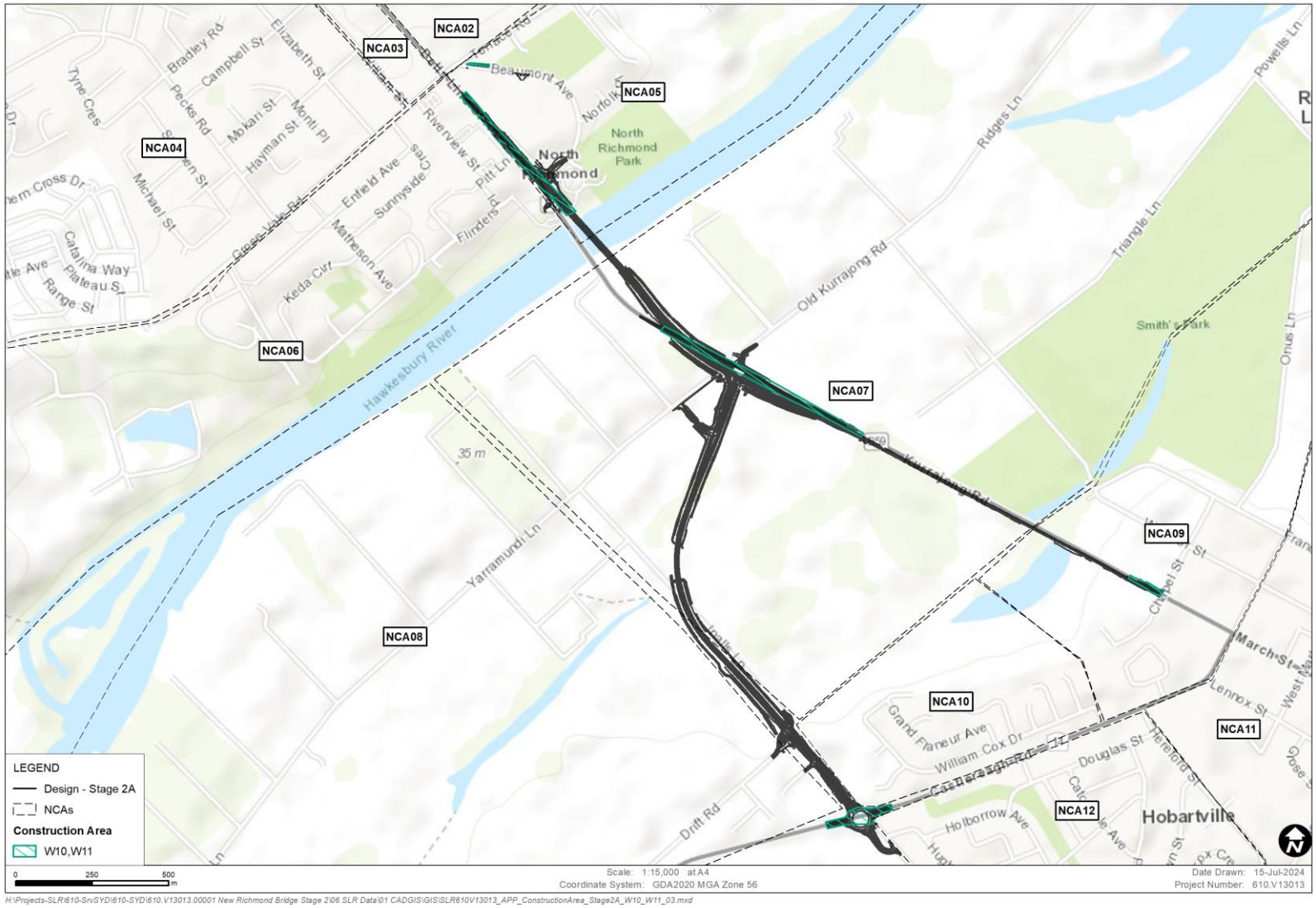


Figure 6 Stage 2A construction work locations – Landscaping and finishing works

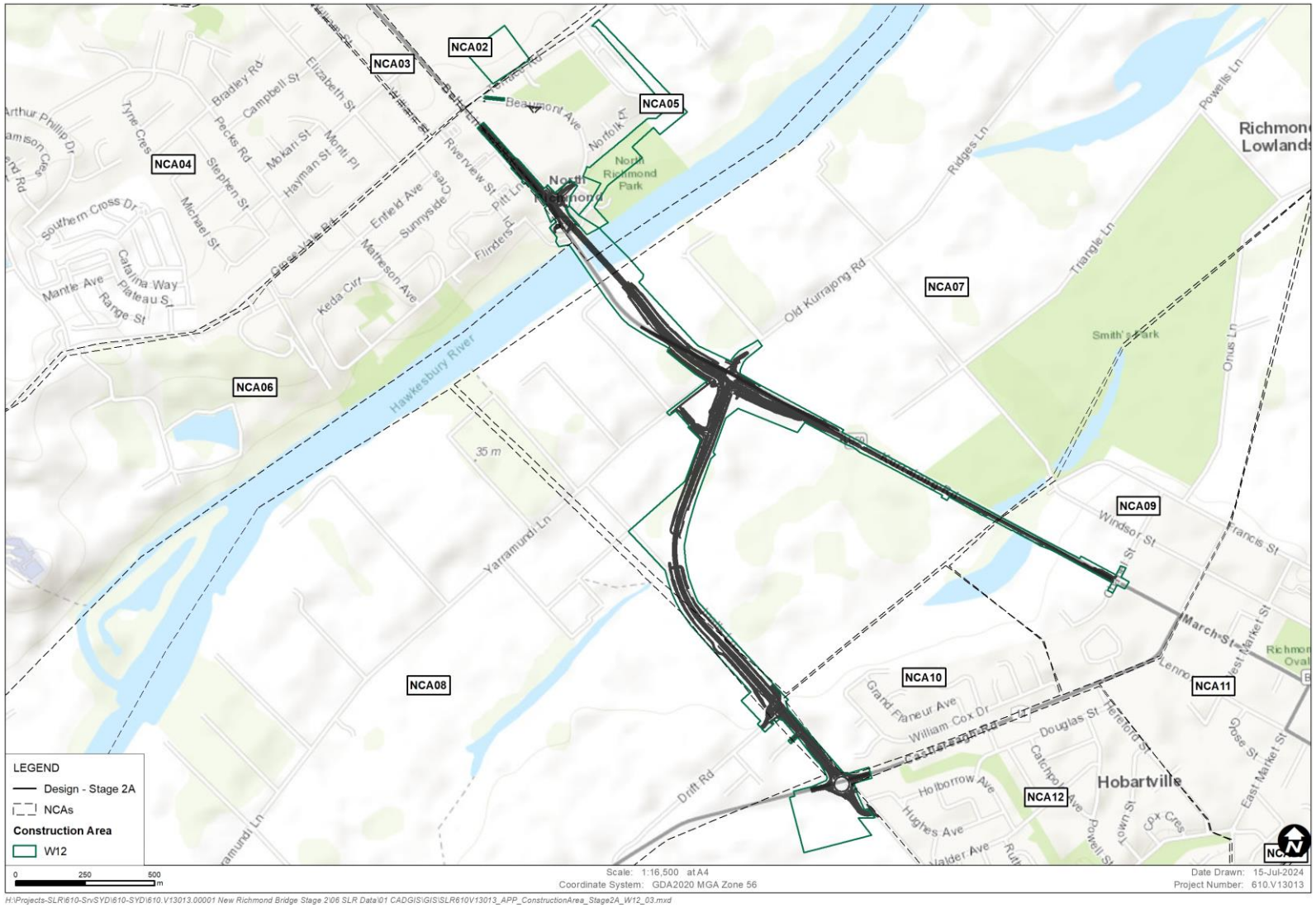


Figure 7 Stage 2A construction work locations – Compounds

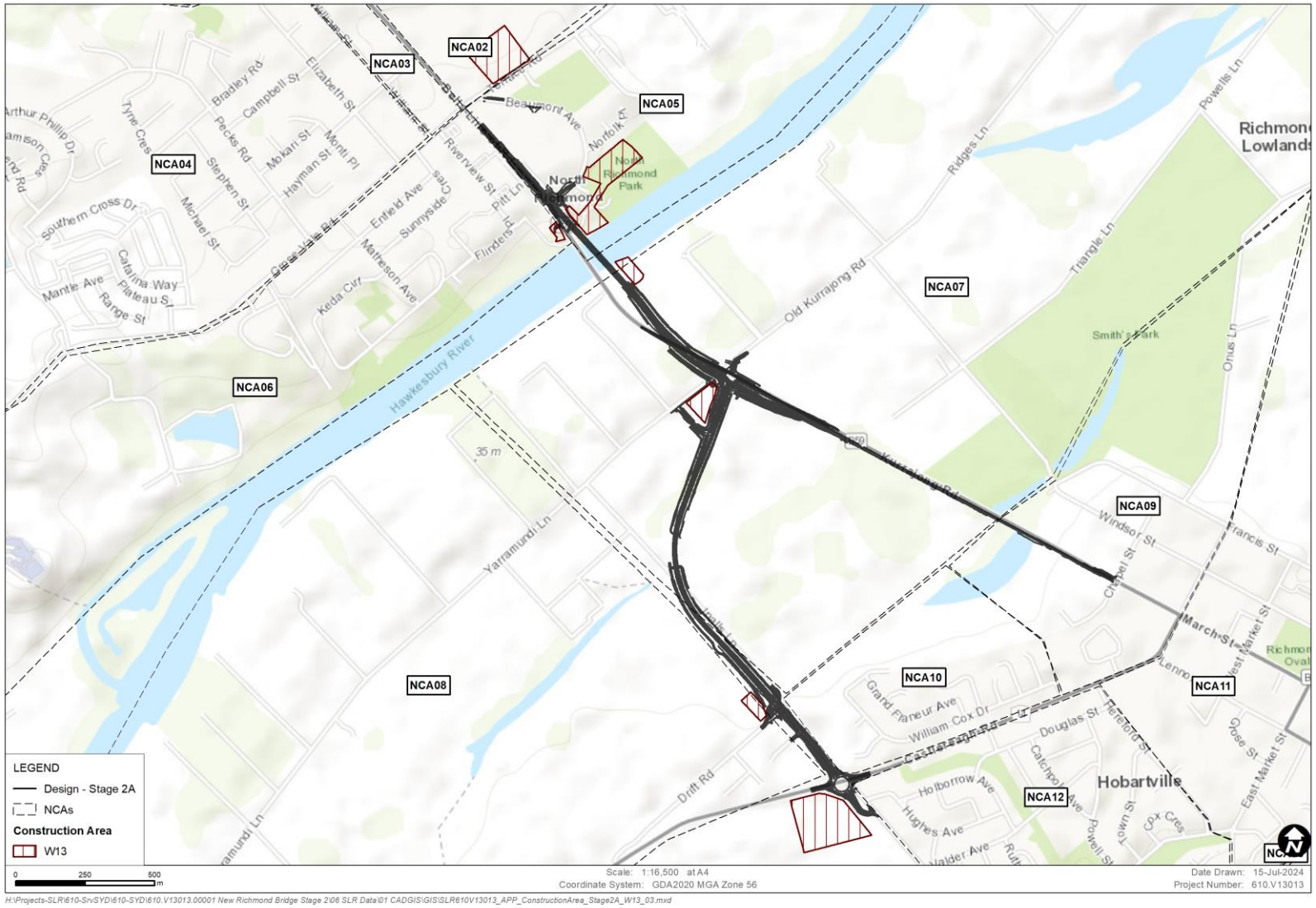


Table 2: Stage 2A predicted worst-case construction noise levels (dBA) – Residential receivers

ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
W.01	Early Works - Existing Bridge Only	<30	31	35	33	48	53	55	38	<30	<30	<30	<30	<30	<30	<30
W.02	Establishment Works - Peak	48	55	60	54	85	77	67	<85	<85	85	58	78	46	48	44
W.03	Establishment Works - Typical	31	43	42	35	64	56	46	67	71	61	37	57	<30	<30	<30
W.04	Earthworks/Drainage - Peak	48	53	64	55	<85	74	64	85	<85	79	55	75	43	45	41
W.05	Earthworks/Drainage - Typical	33	38	49	40	77	59	49	70	74	64	40	60	<30	30	<30
W.06	Bridge Construction - Peak	39	41	44	43	61	67	61	57	41	52	38	45	34	33	36
W.07	Bridge Construction - Typical	<30	<30	30	<30	47	53	47	43	<30	38	<30	31	<30	<30	<30
W.08	Road Works - Peak	44	47	55	50	67	73	62	83	46	81	45	79	42	39	39
W.09	Road Works - Typical	<30	32	40	35	52	58	47	68	31	66	30	64	<30	<30	<30
W.10	OOH Road Works - Tie-ins - Peak	47	52	63	54	<85	74	56	62	84	81	54	81	41	44	39
W.11	OOH Road Works - Tie-Ins - Typical	33	38	49	40	77	60	42	48	70	67	40	67	<30	30	<30
W.12	Landscaping and Finishing Works - Typical	38	50	55	44	<85	68	56	73	75	73	46	71	32	35	30
W.13	Compound - General Operation	37	48	47	40	67	60	51	65	34	52	32	54	30	<30	<30

Table 3: Stage 2A predicted worst-case NML exceedances (dB) – Residential receivers

Period	ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
Day	W.02	Establishment Works - Peak	2	9	-	-	34	22	12	41	30	39	-	31	2	9	-
	W.03	Establishment Works - Typical	-	-	-	-	13	1	-	21	9	15	-	10	-	-	-
	W.04	Earthworks/Drainage - Peak	2	7	-	-	41	19	9	39	27	33	-	28	2	7	-
	W.05	Earthworks/Drainage - Typical	-	-	-	-	26	4	-	24	12	18	-	13	-	-	-
	W.06	Bridge Construction - Peak	-	-	-	-	10	12	6	11	-	6	-	-	-	-	-
	W.07	Bridge Construction - Typical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W.08	Road Works - Peak	-	1	-	-	16	18	7	37	-	35	-	32	-	1	-
	W.09	Road Works - Typical	-	-	-	-	1	3	-	22	-	20	-	17	-	-	-
	W.12	Landscaping and Finishing Works - Typical	-	4	-	-	41	13	1	27	13	27	-	24	-	4	-
	W.13	Compound - General Operation	-	2	-	-	16	5	-	19	-	6	-	7	-	2	-
Evening	W.01	Early Works - Existing Bridge Only	-	-	-	-	2	3	5	-	-	-	-	-	-	-	-
	W.10	OOH Road Works - Tie-ins - Peak	6	11	11	4	45	24	6	21	31	40	1	42	2	6	11
	W.11	OOH Road Works - Tie-Ins - Typical	-	-	-	-	31	10	-	7	17	26	-	28	-	-	-
	W.13	Compound - General Operation	-	7	-	-	21	10	1	24	-	11	-	15	-	-	7
Night	W.01	Early Works - Existing Bridge Only	-	-	-	-	12	17	19	3	-	-	-	-	-	-	-
	W.10	OOH Road Works - Tie-ins - Peak	12	17	26	18	55	38	20	27	40	46	10	46	6	-	4
	W.11	OOH Road Works - Tie-Ins - Typical	-	3	12	4	41	24	6	13	26	32	-	32	-	-	-
	W.13	Compound - General Operation	2	13	10	4	31	24	15	30	-	17	-	19	-	-	-

Table 4: Stage 2A predicted NML exceedances, all receiver types – All NCAs

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	6417	-	-	-	-	7	-	-	-	7	-	-	-	117	77	3	-	154	17	-
W.02	Establishment Works - Peak	6417	73	955	336	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	6417	-	93	12	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	6417	29	758	182	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	6417	1	92	26	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	6417	-	156	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	6417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	6417	10	542	148	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	6417	-	72	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	6417	24	671	142	36	617	668	135	35	715	888	161	37	1226	2001	597	132	2381	1262	306
W.11	OOH Road Works - Tie-Ins - Typical	6417	1	68	18	2	122	59	18	2	134	72	23	5	479	312	44	18	931	173	43
W.12	Landscaping and Finishing Works - Typical	6417	5	203	72	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	6417	-	117	15	-	129	116	15	-	170	134	15	-	538	329	68	12	156	33	1
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 5: Stage 2A predicted NML exceedances, all receiver types – NCA01

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	156	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	156	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	156	-	2	-	-	13	2	-	-	13	2	-	-	50	17	-	-	65	2	-
W.11	OOH Road Works - Tie-Ins - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	156	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive							Highly Intrusive		

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 6: Stage 2A predicted NML exceedances, all receiver types – NCA02

ID	Scenario	Number of Receivers																			
		Total	HNA [1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 **dB**	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	67	-	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	67	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	67	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	67	-	6	-	-	19	3	-	-	16	3	-	-	19	25	1	-	41	4	-
W.11	OOH Road Works - Tie-Ins - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	-	-
W.12	Landscaping and Finishing Works - Typical	67	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	67	-	1	-	-	-	1	-	-	-	1	-	-	6	2	-	-	4	1	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 7: Stage 2A predicted NML exceedances, all receiver types – NCA03

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	115	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	115	-	2	-	-	1	1	-	-	22	11	-	-	8	71	30	1	26	72	10
W.11	OOH Road Works - Tie-Ins - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	34	10	-	-	62	6	-
W.12	Landscaping and Finishing Works - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	115	-	-	-	-	-	-	-	-	-	-	-	-	65	12	-	-	72	-	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive						Highly Intrusive				

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours

Table 8: Stage 2A predicted NML Exceedances, All Receiver Types – NCA04

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	1695	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	1695	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	1695	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	1695	-	3	-	-	14	1	-	-	12	-	-	-	703	604	4	-	1119	192	-
W.11	OOH Road Works - Tie-Ins - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	68	-	-
W.12	Landscaping and Finishing Works - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	1695	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	23	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 9: Stage 2A predicted NML exceedances, all receiver types – NCA05

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 **dB**	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	144	-	-	-	-	3	-	-	-	3	-	-	-	47	22	-	-	61	1	-
W.02	Establishment Works - Peak	144	22	35	47	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	144	-	35	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	144	5	78	18	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	144	1	12	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	144	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	144	-	71	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	144	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	144	6	83	15	7	11	86	11	7	10	78	9	7	12	16	77	16	18	71	32
W.11	OOH Road Works - Tie-Ins - Typical	144	1	9	4	1	11	5	4	1	7	5	4	1	46	40	5	5	73	17	8
W.12	Landscaping and Finishing Works - Typical	144	3	39	22	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	144	-	31	11	-	19	30	11	-	19	30	11	-	27	39	30	11	43	34	31
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive					Highly Intrusive				

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 10: Stage 2A predicted NML exceedances, all receiver types – NCA06

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 **dB**	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	447	-	-	-	-	2	-	-	-	2	-	-	-	62	50	1	-	83	12	-
W.02	Establishment Works - Peak	447	5	138	43	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	447	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	447	-	79	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	447	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	447	-	27	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	447	-	67	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	447	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	447	-	78	22	-	100	79	18	-	97	74	14	-	31	223	121	34	144	190	73
W.11	OOH Road Works - Tie-Ins - Typical	447	-	9	-	-	18	4	-	-	13	4	-	-	97	72	14	-	167	48	6
W.12	Landscaping and Finishing Works - Typical	447	-	21	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	447	-	3	-	-	10	3	-	-	10	3	-	-	125	48	11	-	140	20	3
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 11: Stage 2A predicted NML exceedances, all receiver types – NCA07

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	33	-	-	-	-	2	-	-	-	2	-	-	-	6	5	2	-	9	4	-
W.02	Establishment Works - Peak	33	-	10	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	33	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	33	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	33	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	33	-	3	-	-	8	3	-	-	8	3	-	-	2	13	10	-	10	15	-
W.11	OOH Road Works - Tie-Ins - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	8	3	-	-	15	-	-
W.12	Landscaping and Finishing Works - Typical	33	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	33	-	-	-	-	1	-	-	-	1	-	-	-	4	12	-	-	9	5	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive					Highly Intrusive				

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 12: Stage 2A predicted NML exceedances, all receiver types – NCA08

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	144	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-
W.02	Establishment Works - Peak	144	9	20	36	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	144	-	16	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	144	4	28	31	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	144	-	18	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	144	-	48	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	144	4	31	28	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	144	-	17	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	144	-	41	24	1	8	41	25	-	8	41	25	-	21	23	46	7	31	38	28
W.11	OOH Road Works - Tie-Ins - Typical	144	-	8	-	-	21	8	-	-	21	8	-	-	23	31	-	-	50	15	-
W.12	Landscaping and Finishing Works - Typical	144	-	33	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	144	-	32	4	-	22	32	4	-	22	32	4	-	7	49	12	1	29	35	5
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 13: Stage 2A predicted NML exceedances, all receiver types – NCA09

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	357	22	66	22	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	357	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	357	13	45	13	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	357	-	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	357	9	40	8	5	48	39	8	5	124	62	18	6	54	216	51	21	165	134	40
W.11	OOH Road Works - Tie-Ins - Typical	357	-	7	-	-	10	7	-	-	16	8	5	-	39	35	7	4	88	22	7
W.12	Landscaping and Finishing Works - Typical	357	2	14	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 14: Stage 2A predicted NML exceedances, all receiver types – NCA10

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	223	9	94	104	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	223	-	16	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	223	6	143	60	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	223	-	26	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	223	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	223	5	116	57	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	223	-	22	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	223	6	155	44	13	11	155	44	13	11	155	44	13	-	70	122	31	3	153	67
W.11	OOH Road Works - Tie-Ins - Typical	223	-	22	8	1	36	22	8	1	36	22	8	1	82	70	10	6	147	36	12
W.12	Landscaping and Finishing Works - Typical	223	-	59	16	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	223	-	19	-	-	38	19	-	-	38	19	-	-	89	71	4	-	142	21	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 15: Stage 2A predicted NML exceedances, all receiver types – NCA11

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	621	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	621	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	621	-	-	-	-	-	-	-	-	2	-	-	-	94	43	-	-	137	-	-
W.11	OOH Road Works - Tie-Ins - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive							Highly Intrusive		

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 16: Stage 2A predicted NML exceedances, all receiver types – NCA12

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	976	6	561	80	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	976	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	976	1	361	42	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	976	-	27	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	976	1	248	37	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	976	-	26	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	976	3	258	29	10	384	258	29	10	386	459	51	11	126	679	135	22	515	391	56
W.11	OOH Road Works - Tie-Ins - Typical	976	-	13	6	-	26	13	6	-	41	25	6	3	137	51	8	3	258	29	10
W.12	Landscaping and Finishing Works - Typical	976	-	35	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	976	-	31	-	-	39	31	-	-	80	49	-	-	179	96	11	-	242	42	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 17: Stage 2A predicted NML exceedances, all receiver types – NCA13

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	154	-	-	-	-	-	-	-	-	6	-	-	-	40	1	-	-	41	-	-
W.11	OOH Road Works - Tie-Ins - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive							Highly Intrusive		

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 18: Stage 2A predicted NML exceedances, all receiver types – NCA14

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.11	OOH Road Works - Tie-Ins - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 19: Stage 2A predicted NML exceedances, all receiver types – NCA15

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-	66	-	-
W.11	OOH Road Works - Tie-Ins - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Stage 2B construction noise

Figure 8 Stage 2B construction work locations – Establishment works

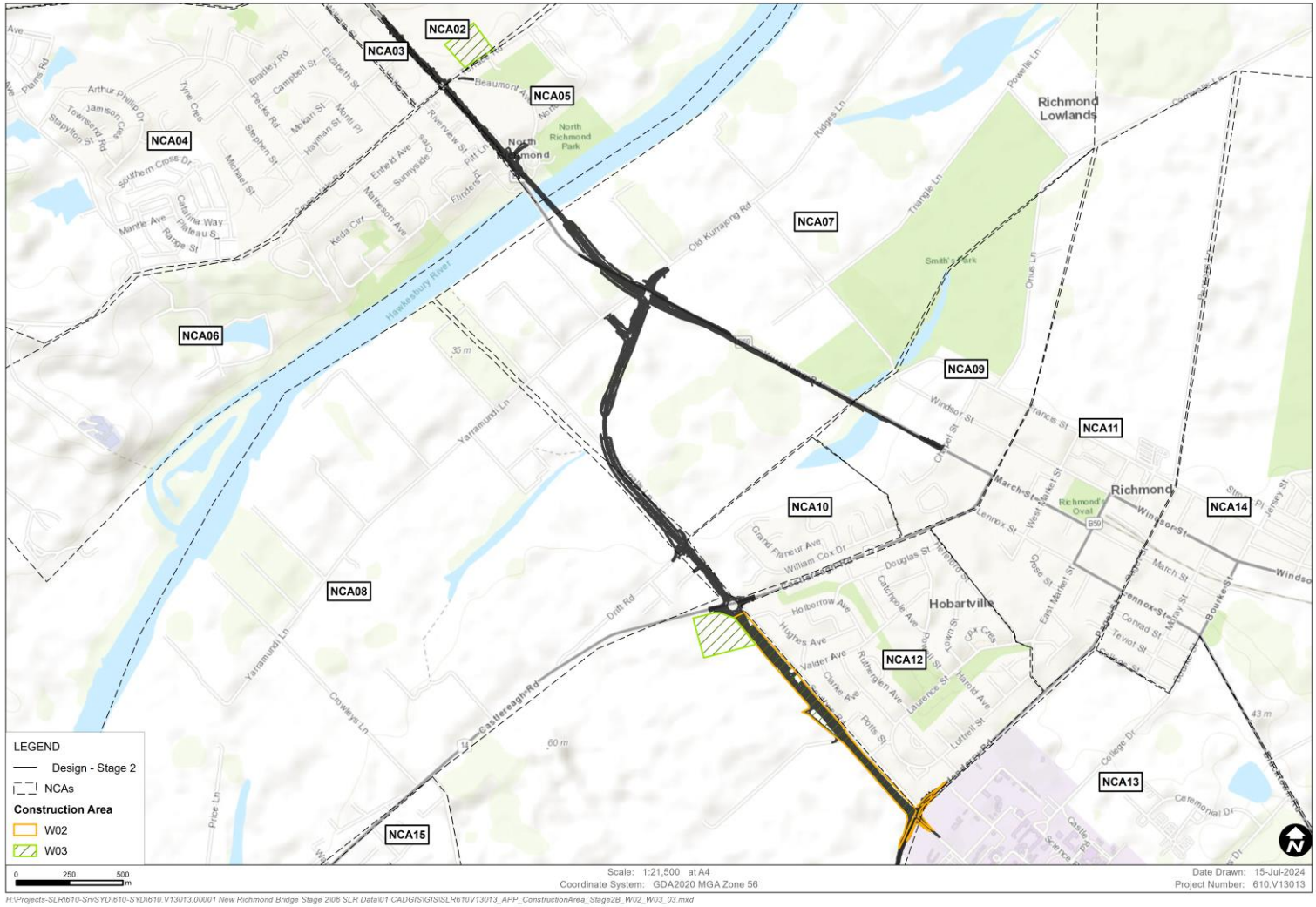


Figure 9 Stage 2B construction work locations – Earthworks/Drainage

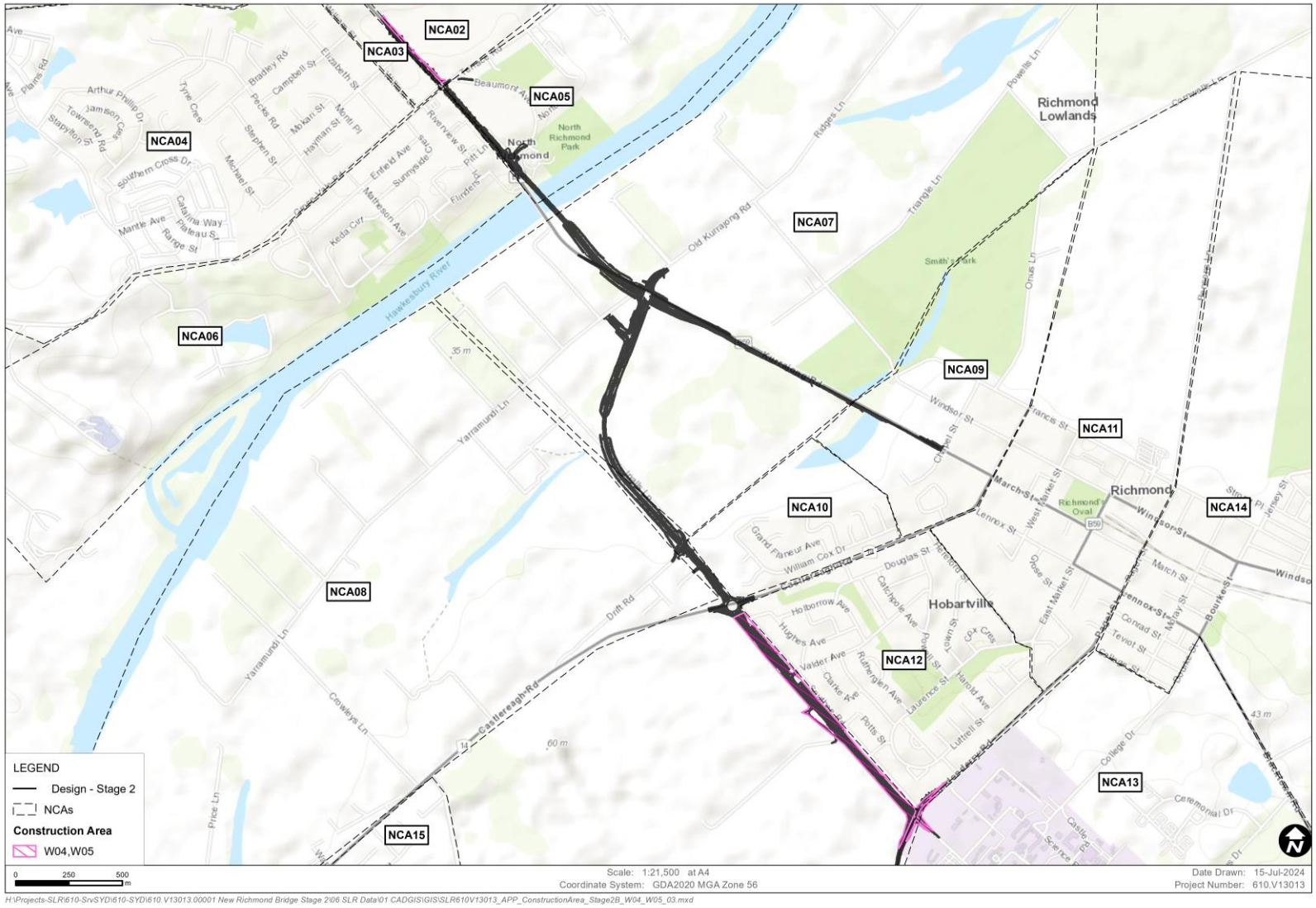


Figure 10 Stage 2B construction work locations – Road works

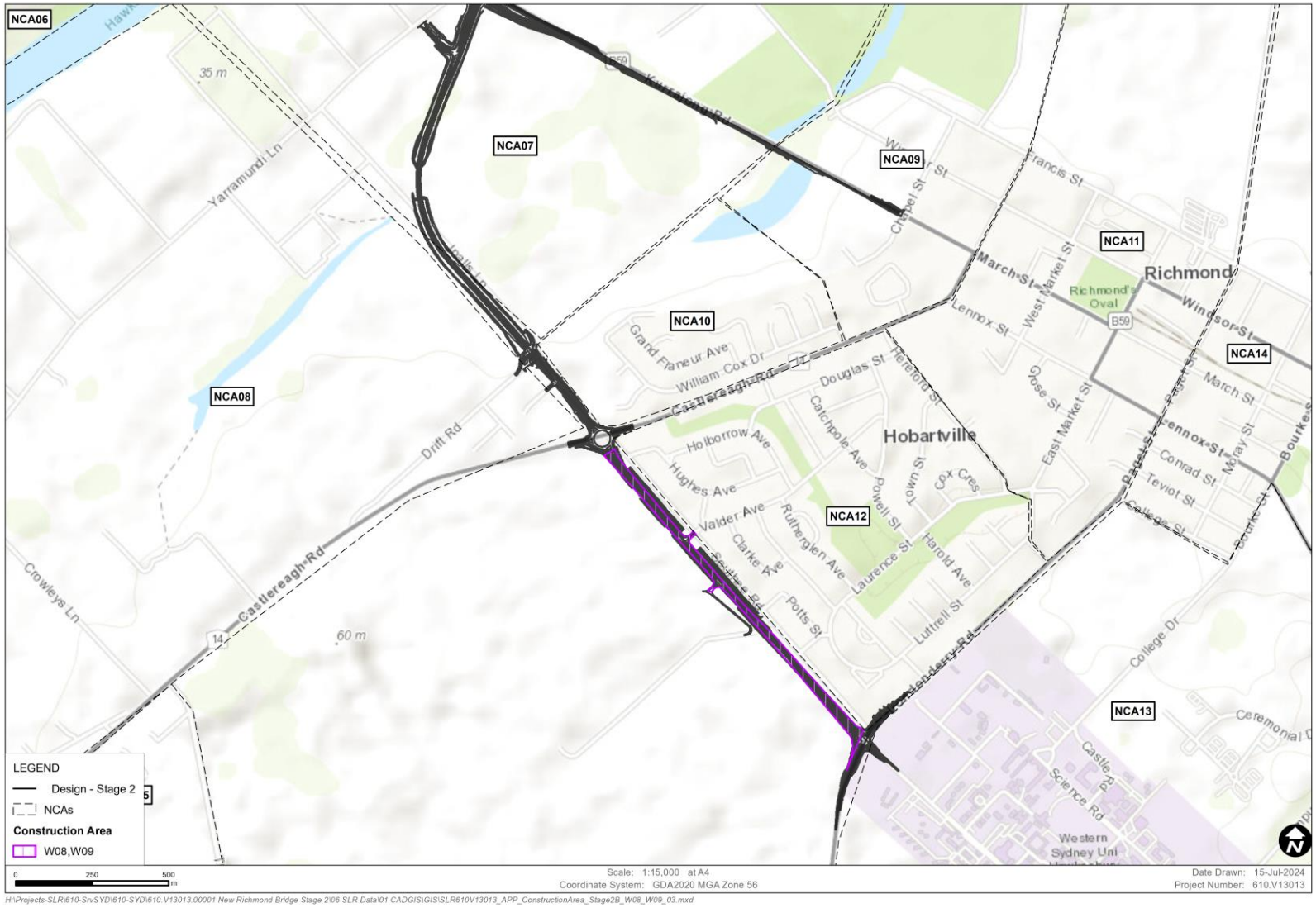


Figure 11 Stage 2B construction work locations – OOH road works

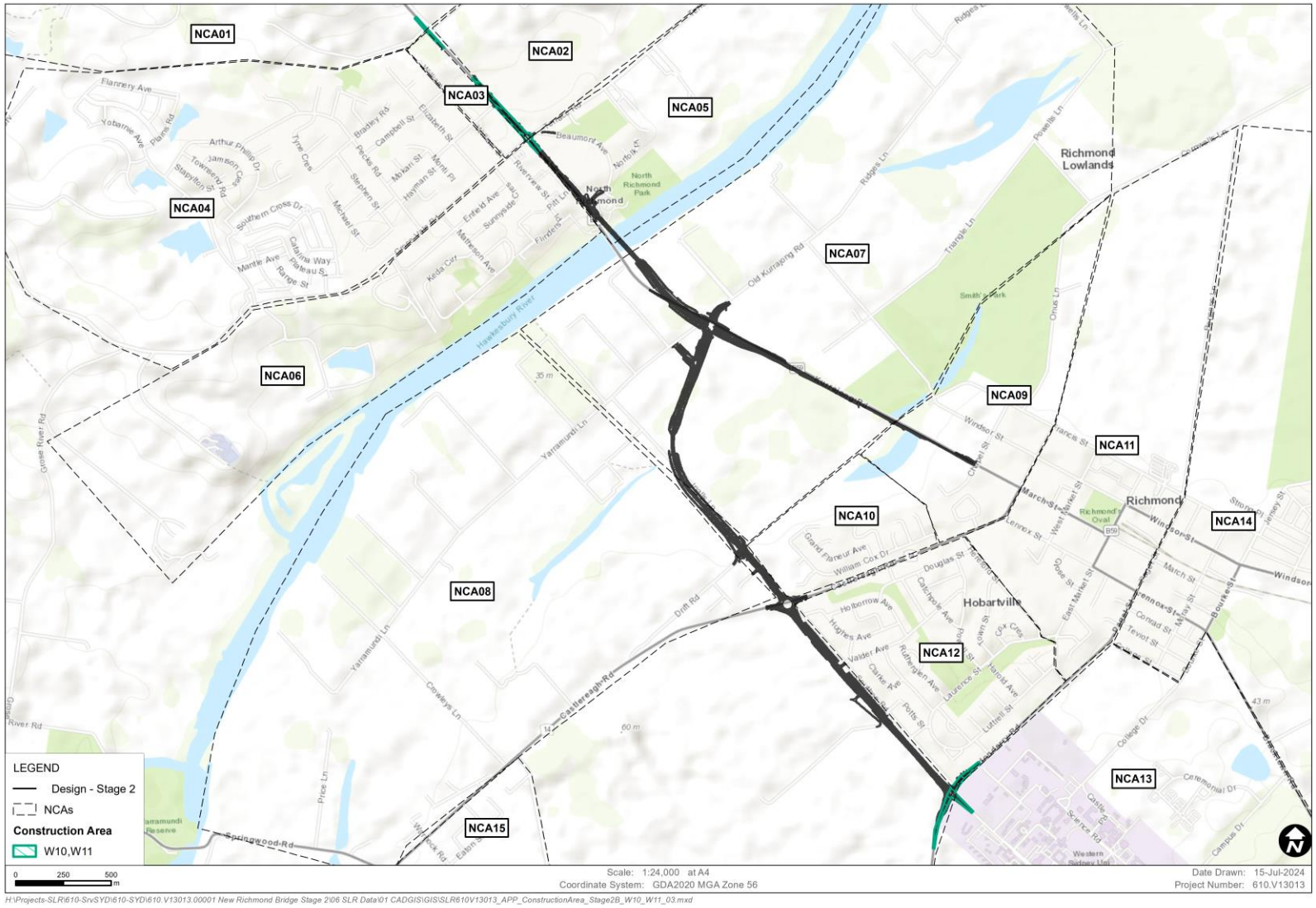


Figure 12 Stage 2B construction work locations – Landscaping and finishing works

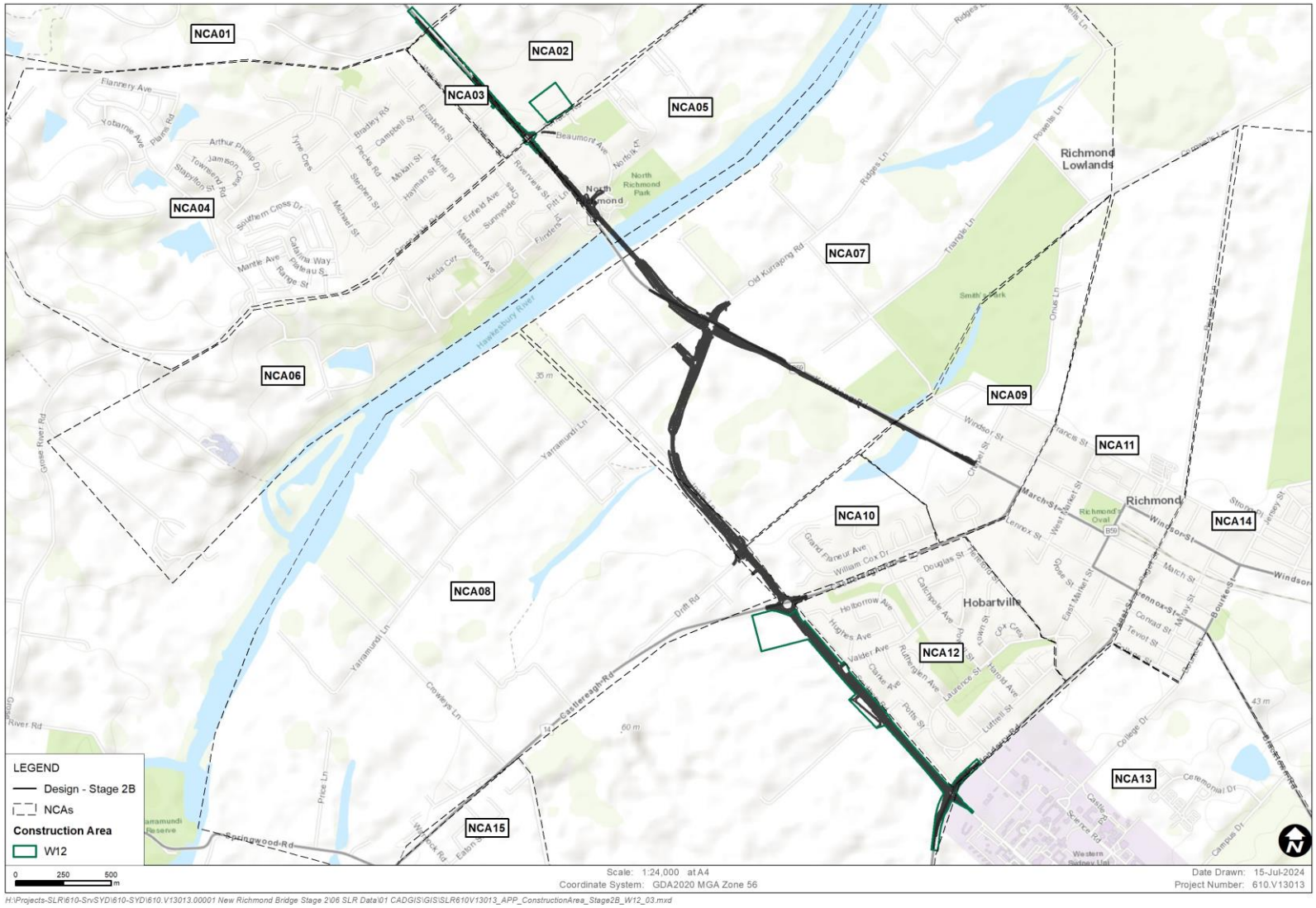


Figure 13 Stage 2B construction work locations – Compounds

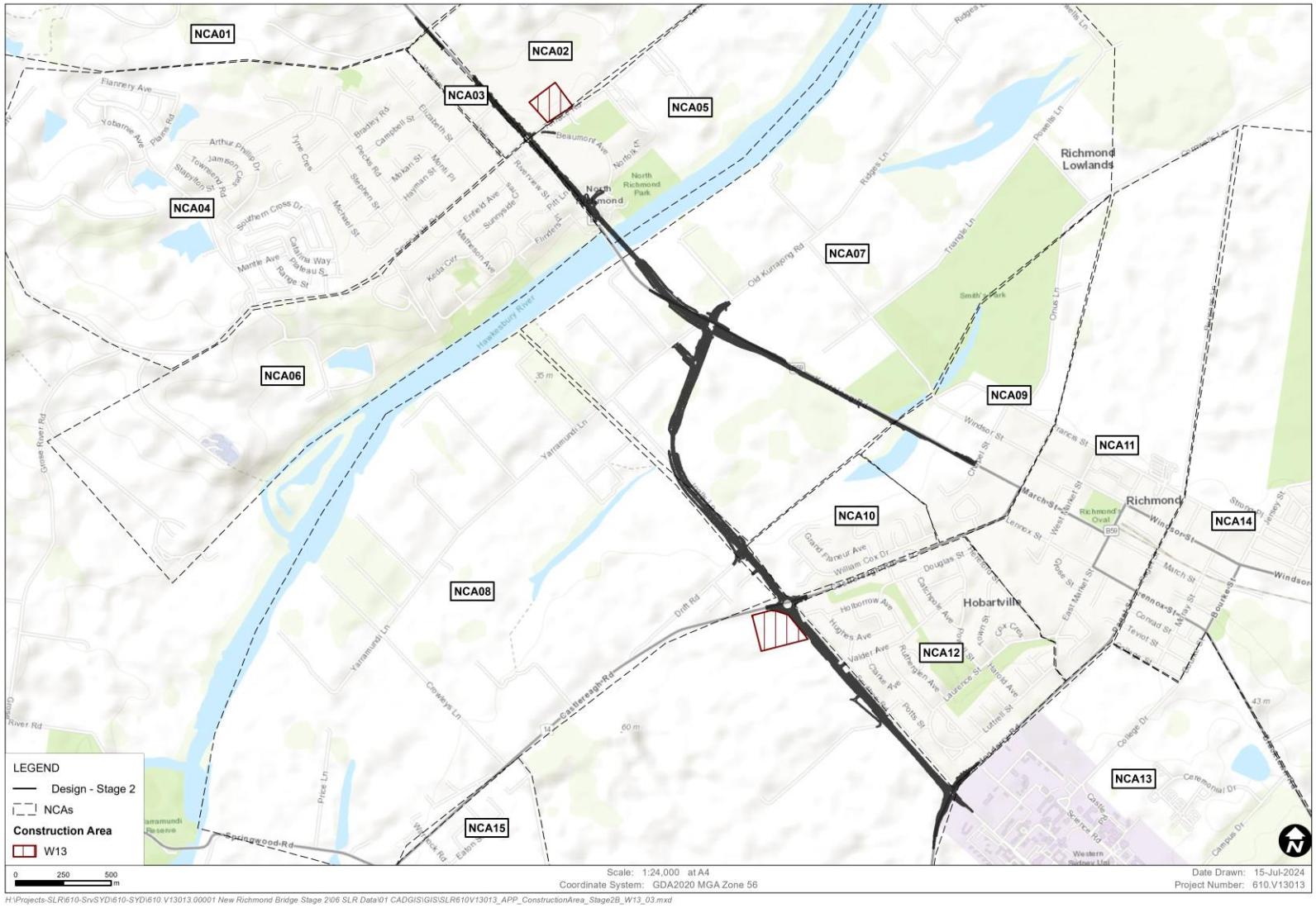


Table 20: Stage 2B predicted worst-case construction noise levels (dBA) – Residential receivers

ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
W.01	Early Works - Existing Bridge Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	<30	<30	46	36	38	40	42	62	50	73	53	<85	84	49	45
W.03	Establishment Works - Typical	31	43	42	35	54	38	<30	50	<30	52	32	65	63	<30	<30
W.04	Earthworks/Drainage - Peak	75	61	84	63	68	63	47	59	47	70	50	83	81	46	42
W.05	Earthworks/Drainage - Typical	60	46	69	48	53	48	32	44	32	55	35	68	66	31	<30
W.06	Bridge Construction - Peak	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
W.07	Bridge Construction - Typical	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
W.08	Road Works - Peak	<30	<30	38	32	34	36	38	58	46	69	46	78	59	43	40
W.09	Road Works - Typical	<30	<30	<30	<30	<30	<30	<30	43	31	54	31	63	44	<30	<30
W.10	OOH Road Works - Tie-ins - Peak	74	60	84	62	67	63	47	41	42	58	49	81	77	45	42
W.11	OOH Road Works - Tie-Ins - Typical	60	46	70	48	53	49	33	<30	<30	44	35	67	63	31	<30
W.12	Landscaping and Finishing Works - Typical	67	50	74	52	61	54	37	57	36	59	39	72	72	35	32
W.13	Compound - General Operation	36	48	47	40	59	43	34	55	33	52	32	54	30	<30	<30

Table 21: Stage 2B predicted worst-case NML exceedances (dB) – Residential receivers

Period	ID	Scenario	NCA01	NCA02	NCA03	NCA04	NCA05	NCA06	NCA07	NCA08	NCA09	NCA10	NCA11	NCA12	NCA13	NCA14	NCA15
Day	W.02	Establishment Works - Peak	-	-	-	-	-	-	-	16	-	27	-	39	37	-	-
	W.03	Establishment Works - Typical	-	-	-	-	3	-	-	4	-	6	-	18	16	-	-
	W.04	Earthworks/Drainage - Peak	29	15	16	8	17	8	-	13	-	24	-	36	34	29	15
	W.05	Earthworks/Drainage - Typical	14	-	1	-	2	-	-	-	-	9	-	21	19	14	-
	W.08	Road Works - Peak	-	-	-	-	-	-	-	12	-	23	-	31	12	-	-
	W.09	Road Works - Typical	-	-	-	-	-	-	-	-	-	8	-	16	-	-	-
	W.12	Landscaping and Finishing Works - Typical	21	4	6	-	10	-	-	11	-	13	-	25	25	21	4
	W.13	Compound - General Operation	-	2	-	-	8	-	-	9	-	6	-	7	-	-	2
Evening	W.01	Early Works - Existing Bridge Only															
	W.10	OOH Road Works - Tie-ins - Peak	33	19	32	12	21	13	-	-	-	17	-	42	38	-	3
	W.11	OOH Road Works - Tie-Ins - Typical	19	5	18	-	7	-	-	-	-	3	-	28	24	-	-
	W.13	Compound - General Operation	-	7	-	-	13	-	-	14	-	11	-	15	-	-	-
Night	W.01	Early Works - Existing Bridge Only															
	W.10	OOH Road Works - Tie-ins - Peak	39	25	47	26	31	27	11	6	-	23	5	46	42	1	7
	W.11	OOH Road Works - Tie-Ins - Typical	25	11	33	12	17	13	-	-	-	9	-	32	28	-	-
	W.13	Compound - General Operation	1	13	10	4	23	7	-	20	-	17	-	19	-	-	-

Table 22: Stage 2B predicted NML exceedances, all receiver types – All NCAs

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	6417	-	-	-	-	7	-	-	-	7	-	-	-	117	77	3	-	154	17	-
W.02	Establishment Works - Peak	6417	73	955	336	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	6417	-	93	12	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	6417	29	758	182	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	6417	1	92	26	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	6417	-	156	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	6417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	6417	10	542	148	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	6417	-	72	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	6417	24	671	142	36	617	668	135	35	715	888	161	37	1226	2001	597	132	2381	1262	306
W.11	OOH Road Works - Tie-Ins - Typical	6417	1	68	18	2	122	59	18	2	134	72	23	5	479	312	44	18	931	173	43
W.12	Landscaping and Finishing Works - Typical	6417	5	203	72	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	6417	-	117	15	-	129	116	15	-	170	134	15	-	538	329	68	12	156	33	1
Key to Impacts				Noticeable			Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 23: Stage 2B predicted NML exceedances, all receiver types – NCA01

ID	Scenario	Number of Receivers																		
		Total	HNA[1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	156	1	13	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	156	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	156	-	11	2	1	17	11	2	1	17	11	2	1	66	29	6	1	88	12	2
W.11	OOH Road Works - Tie-Ins - Typical	156	-	1	1	-	2	-	1	-	2	-	1	-	4	3	1	-	10	1	1
W.12	Landscaping and Finishing Works - Typical	156	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	156	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive						Highly Intrusive			

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 24: Stage 2B predicted NML exceedances, all receiver types – NCA02

ID	Scenario	Number of Receivers																		
		Total	HNA [1]	With NML Exceedance[2]																
				Standard Daytime			Out of Hours Works[3]													
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 **dB**	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	67	-	10	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	67	-	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	67	-	9	8	-	19	12	4	-	18	7	1	-	16	28	3	-	37	9	1
W.11	OOH Road Works - Tie-Ins - Typical	67	-	4	-	-	4	1	-	-	1	-	-	-	3	1	-	-	4	1	-
W.12	Landscaping and Finishing Works - Typical	67	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	67	-	1	-	-	-	1	-	-	-	1	-	-	3	1	-	-	3	1	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 25: Stage 2B predicted NML exceedances, all receiver types – NCA03

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	115	14	42	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	115	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	115	14	35	10	-	39	36	8	-	4	55	41	10	-	1	24	85	-	4	104
W.11	OOH Road Works - Tie-Ins - Typical	115	-	7	-	-	7	5	-	-	27	22	5	-	3	53	42	11	11	63	34
W.12	Landscaping and Finishing Works - Typical	115	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	115	-	-	-	-	-	-	-	-	-	-	-	-	62	10	-	-	72	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive					Highly Intrusive				

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours

Table 26: Stage 2B predicted NML Exceedances, All Receiver Types – NCA04

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	1695	-	80	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	1695	-	53	2	-	178	49	-	-	172	46	-	-	635	797	158	3	1115	446	32
W.11	OOH Road Works - Tie-Ins - Typical	1695	-	-	-	-	-	-	-	-	-	-	-	-	172	46	-	-	331	12	-
W.12	Landscaping and Finishing Works - Typical	1695	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	1695	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	23	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 27: Stage 2B predicted NML exceedances, all receiver types – NCA05

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	144	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	144	-	14	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	144	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	144	-	10	10	-	41	11	8	-	41	6	7	-	14	96	6	7	70	42	11
W.11	OOH Road Works - Tie-Ins - Typical	144	-	4	-	-	8	2	-	-	6	2	-	-	9	9	2	-	28	10	-
W.12	Landscaping and Finishing Works - Typical	144	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	144	-	11	-	-	1	10	-	-	1	10	-	-	47	8	10	-	55	3	7
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 28: Stage 2B predicted NML exceedances, all receiver types – NCA06

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	447	-	34	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	447	-	25	4	-	71	24	2	-	68	22	-	-	59	280	59	3	158	227	16
W.11	OOH Road Works - Tie-Ins - Typical	447	-	2	-	-	2	-	-	-	-	-	-	-	68	22	-	-	160	7	-
W.12	Landscaping and Finishing Works - Typical	447	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	447	-	-	-	-	-	-	-	-	-	-	-	-	78	3	-	-	81	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive					Highly Intrusive				

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 29: Stage 2B predicted NML exceedances, all receiver types – NCA07

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	33	-	-	-	-	-	-	-	-	-	-	-	-	8	14	-	-	21	1	-
W.11	OOH Road Works - Tie-Ins - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible								Moderately Intrusive				Highly Intrusive		

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 30: Stage 2B predicted NML exceedances, all receiver types – NCA08

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	144	-	40	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	144	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	144	-	55	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	144	-	57	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	144	-	-	-	-	-	-	-	-	-	-	-	-	73	4	-	-	77	-	-
W.11	OOH Road Works - Tie-Ins - Typical	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	144	-	30	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	144	-	15	-	-	30	15	-	-	30	15	-	-	16	48	2	-	44	22	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 31: Stage 2B predicted NML exceedances, all receiver types – NCA09

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	357	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	357	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.11	OOH Road Works - Tie-Ins - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 32: Stage 2B predicted NML exceedances, all receiver types – NCA10

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1 10 dB	11 20 dB	>20 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 dB	6 15 dB	16 25 dB	>25 dB	1 5 **dB**	6 15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	223	-	159	56	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	223	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	223	-	157	32	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	223	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	223	-	147	31	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	223	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	223	-	-	1	-	18	-	1	-	18	-	1	-	181	41	1	-	222	-	1
W.11	OOH Road Works - Tie-Ins - Typical	223	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	1	-
W.12	Landscaping and Finishing Works - Typical	223	-	31	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	223	-	13	-	-	32	13	-	-	32	13	-	-	100	59	2	-	147	14	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive					Highly Intrusive				

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 33: Stage 2B predicted NML exceedances, all receiver types – NCA11

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	621	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	50	-	-
W.11	OOH Road Works - Tie-Ins - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 34: Stage 2B predicted NML exceedances, all receiver types – NCA12

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	976	80	496	301	169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	976	-	142	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	976	21	489	239	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	976	-	132	69	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	976	1	420	204	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	976	-	152	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	976	11	304	49	21	407	304	49	21	365	479	83	25	33	706	182	44	458	415	92
W.11	OOH Road Works - Tie-Ins - Typical	976	-	25	13	-	41	25	13	-	65	41	13	5	165	83	14	11	303	49	21
W.12	Landscaping and Finishing Works - Typical	976	-	209	93	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	976	-	31	-	-	39	31	-	-	80	49	-	-	177	96	11	-	242	42	-
Key to Impacts		Noticeable					Clearly Audible				Moderately Intrusive				Highly Intrusive						

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).
Note 2: Based on worst-case predicted noise levels.
Note 3: OOH = Out of hours.

Table 35: Stage 2B predicted NML exceedances, all receiver types – NCA13

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	154	1	51	25	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	154	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	154	1	50	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	154	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	154	-	38	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	154	1	46	10	3	17	29	10	3	-	12	25	4	1	1	32	8	1	18	23
W.11	OOH Road Works - Tie-Ins - Typical	154	-	5	1	-	12	5	1	-	18	11	2	-	12	25	3	1	28	10	3
W.12	Landscaping and Finishing Works - Typical	154	-	10	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive					Highly Intrusive				

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 36: Stage 2B predicted NML exceedances, all receiver types – NCA14

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	933	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-
W.11	OOH Road Works - Tie-Ins - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive				Highly Intrusive					

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Table 37: Stage 2B predicted NML exceedances, all receiver types – NCA15

ID	Scenario	Number of Receivers																			
		Total	HNA[1]	With NML Exceedance[2]																	
				Standard Daytime			Out of Hours Works[3]														
							Daytime OOH				Evening				Night-time				Sleep Disturbance		
				1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	>25 dB
W.01	Early Works - Existing Bridge Only	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.02	Establishment Works - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.03	Establishment Works - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.04	Earthworks/Drainage - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.05	Earthworks/Drainage - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.06	Bridge Construction - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.07	Bridge Construction - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.08	Road Works - Peak	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.09	Road Works - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.10	OOH Road Works - Tie-ins - Peak	352	-	-	-	-	-	-	-	-	23	-	-	-	65	9	-	-	74	-	-
W.11	OOH Road Works - Tie-Ins - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.12	Landscaping and Finishing Works - Typical	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.13	Compound - General Operation	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key to Impacts		Noticeable					Clearly Audible					Moderately Intrusive							Highly Intrusive		

Note 1: Highly Noise Affected, based on ICNG definition (ie predicted noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: OOH = Out of hours.

Construction Noise and Vibration Guideline (Roads) Mitigation Measures

Table 38: CNVG-R standard mitigation and management measures

Action Required	Applies To	Details
Management measures		
Implementation of any project specific mitigation measures required.	Airborne noise	Implementation of any project specific mitigation measures required.
Implement community consultation or notification measures.	Airborne noise Ground-borne noise & vibration	Notification detailing work activities, dates and hours, impacts and mitigation measures, indication of work schedule over the night time period, any operational noise benefits from the works (where applicable) and contact telephone number. Notification should be a minimum of 7 calendar days prior to the start of works. For projects other than maintenance works more advanced consultation or notification may be required. Please contact Roads and Maritime Communication and Stakeholder Engagement for guidance. Website (If required) Contact telephone number for community Email distribution list (if required) Community drop in session (if required by approval conditions).
Site inductions	Airborne noise Ground-borne noise & vibration	All employees, contractors and subcontractors are to receive an environmental induction. The induction must at least include: • all project specific and relevant standard noise and vibration mitigation measures • relevant licence and approval conditions • permissible hours of work • any limitations on high noise generating activities • location of nearest sensitive receivers • construction employee parking areas • designated loading/unloading areas and procedures • site opening/closing times (including deliveries) • environmental incident procedures.
Behavioural practices	Airborne noise	No swearing or unnecessary shouting or loud stereos/radios on site. No dropping of materials from height, throwing of metal items and slamming of doors.
Verification	Airborne noise Ground-borne noise & vibration	Where specified under Appendix C of the CNVG a noise verification program is to be carried out for the duration of the works in accordance with the Construction Noise and Vibration Management Plan and any approval and licence conditions.
Attended vibration measurements	Ground-borne vibration	Where required attended vibration measurements should be undertaken at the commencement of vibration generating activities to confirm that vibration levels are within the acceptable range to prevent cosmetic building damage.
Update Construction Environmental Management Plans	Airborne noise Ground-borne noise & vibration	The CEMP must be regularly updated to account for changes in noise and vibration management issues and strategies.
Building condition surveys	Vibration Blasting	Undertake building dilapidation surveys on all buildings located within the buffer zone prior to commencement of activities with the potential to cause property damage

Action Required	Applies To	Details
Source controls		
Construction hours and scheduling	Airborne noise Ground-borne noise & vibration	Where feasible and reasonable, construction should be carried out during the standard daytime working hours. Work generating high noise and/or vibration levels should be scheduled during less sensitive time periods.
Construction respite period during normal hours and out-of-hours work	Ground-borne noise & vibration Airborne noise	See Appendix C of the CNVG for more details on the following respite measures: • Respite Offers (RO) • Respite Period 1 (R1) • Respite Period 2 (R2) • Duration Respite (DR)
Equipment selection.	Airborne noise Ground-borne noise & vibration	Use quieter and less vibration emitting construction methods where feasible and reasonable. For example, when piling is required, bored piles rather than impact-driven piles will minimise noise and vibration impacts. Similarly, diaphragm wall construction techniques, in lieu of sheet piling, will have significant noise and vibration benefits. Ensure plant including the silencer is well maintained.
Plant noise levels.	Airborne-noise	The noise levels of plant and equipment must have operating Sound Power or Sound Pressure Levels compliant with the criteria in Appendix H of the CNVG. Implement a noise monitoring audit program to ensure equipment remains within the more stringent of the manufacturers specifications or Appendix H of the CNVG.
Rental plant and equipment.	Airborne-noise	The noise levels of plant and equipment items are to be considered in rental decisions and in any case cannot be used on site unless compliant with the criteria in Table 2 of the CNVG.
Use and siting of plant.	Airborne-noise	The offset distance between noisy plant and adjacent sensitive receivers is to be maximised. Plant used intermittently to be throttled down or shut down. Noise-emitting plant to be directed away from sensitive receivers. Only have necessary equipment on site.
Plan worksites and activities to minimise noise and vibration.	Airborne noise Ground-borne vibration	Locate compounds away from sensitive receivers and discourage access from local roads. Plan traffic flow, parking and loading/unloading areas to minimise reversing movements within the site. Where additional activities or plant may only result in a marginal noise increase and speed up works, consider limiting duration of impact by concentrating noisy activities at one location and move to another as quickly as possible. Very noise activities should be scheduled for normal working hours. If the work can not be undertaken during the day, it should be completed before 11:00pm. Where practicable, work should be scheduled to avoid major student examination periods when students are studying for examinations such as before or during Higher School Certificate and at the end of higher education semesters. If programmed night work is postponed the work should be re-programmed and the approaches in this guideline apply again.
Reduced equipment power	Airborne noise Ground-borne vibration	Use only the necessary size and power.

Action Required	Applies To	Details
Non-tonal and ambient sensitive reversing alarms	Airborne noise	Non-tonal reversing beepers (or an equivalent mechanism) must be fitted and used on all construction vehicles and mobile plant regularly used on site and for any out of hours work. Consider the use of ambient sensitive alarms that adjust output relative to the ambient noise level.
Minimise disturbance arising from delivery of goods to construction sites.	Airborne noise	Loading and unloading of materials/deliveries is to occur as far as possible from sensitive receivers. Select site access points and roads as far as possible away from sensitive receivers. Dedicated loading/unloading areas to be shielded if close to sensitive receivers. Delivery vehicles to be fitted with straps rather than chains for unloading, wherever possible. Avoid or minimise these out of hours movements where possible.
Engine compression brakes	Construction vehicles	Limit the use of engine compression brakes at night and in residential areas. Ensure vehicles are fitted with a maintained Original Equipment Manufacturer exhaust silencer or a silencer that complies with the National Transport Commission's 'In-service test procedure' and standard.
Path controls		
Shield stationary noise sources such as pumps, compressors, fans etc.	Airborne noise	Stationary noise sources should be enclosed or shielded where feasible and reasonable whilst ensuring that the occupational health and safety of workers is maintained. Appendix D of AS 2436:2010 lists materials suitable for shielding.
Shield sensitive receivers from noisy activities.	Airborne noise	Use structures to shield residential receivers from noise such as site shed placement; earth bunds; fencing; erection of operational stage noise barriers (where practicable) and consideration of site topography when situating plant.
Receptor control		
Structural surveys and vibration monitoring	Ground-borne vibration	Pre-construction surveys of the structural integrity of vibration sensitive buildings may be warranted. At locations where there are high-risk receptors, vibration monitoring should be conducted during the activities causing vibration.
See Appendix C of the CNVG for additional measures	Airborne noise Ground-borne vibration	In some instances additional mitigation measures may be required.

Table 39: CNVG 'Additional Mitigation Measures'

Additional Mitigation Measure	Description
Notification (letterbox drop or equivalent)	Advanced warning of works and potential disruptions can assist in reducing the impact on the community. The notification may consist of a letterbox drop (or equivalent) detailing work activities, time periods over which these will occur, impacts and mitigation measures. Notification should be a minimum of five working days prior to the start of works.
Specific notifications (SN)	Specific notifications are letterbox dropped (or equivalent) to identified stakeholders no later than seven calendar days ahead of construction activities that are likely to exceed the noise objectives. The specific notification provides additional information when relevant and informative to more highly affected receivers than covered in general letterbox drops.
Phone calls (PC)	Phone calls detailing relevant information made to affected stakeholders within seven calendar days of proposed work. Phone calls provide affected stakeholders with personalised contact and tailored advice, with the opportunity to provide comments on the proposed work and specific needs.
Individual briefings (IB)	Individual briefings are used to inform stakeholders about the impacts of high noise activities and mitigation measures that will be implemented. Project representatives 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.
Respite Offers (RO)	Respite Offers should be considered where there are high noise and vibration generating activities near receivers. As a guide work should be carried out in continuous blocks that do not exceed three hours each, with a minimum respite period of one hour between each block. The actual duration of each block of work and respite should be flexible to accommodate the usage of and amenity at nearby receivers. The purpose of such an offer is to provide residents with respite from an ongoing impact. This measure is evaluated on a project-by-project basis, and may not be applicable to all projects.
Respite Period 1 (R1)	Out of hours construction noise in 'out of hours period 1' shall be limited to no more than three consecutive evenings per week except where there is a Duration Respite. For night work these periods of work should be separated by not less than one week and no more than six evenings per month.
Respite Period 2 (R2)	Night time construction noise in 'out of hours period 2' shall be limited to two consecutive nights except for where there is a Duration Respite. For night work these periods of work should be separated by not less than one week and six nights per month. Where possible, high noise generating works shall be completed before 11pm.
Duration Respite (DR)	Respite offers and respite periods 1 and 2 may be counterproductive in reducing the impact on the community for longer duration projects. In this instance and where it can be strongly justified it may be beneficial to increase the work duration, number of evenings or nights worked through Duration Respite so that the project can be completed more quickly. The project team should engage with the community where noise levels are expected to exceed the NML to demonstrate support for Duration Respite.
Alternative Accommodation (AA)	Alternative accommodation may be offered to residents living in close proximity to construction works that are likely to experience highly intrusive noise levels. The specifics of the offer should be identified on a project-by-project basis. Additional aspects for consideration shall include whether the highly intrusive activities occur throughout the night or before midnight.
Verification (V)	Verification of construction noise and vibration levels should occur to ensure the actual impacts are consistent with the predicted levels. Appendix F of the CNVG contains further details about verification of Noise and Vibration levels as part of routine checks of noise levels or following reasonable complaints.

Appendix D: Operational information

Traffic volumes

Table 1: Traffic Volumes – 2029

Road	Road Section	Dir	No Build 2029				Build 2029			
			Day		Night		Day		Night	
			LV	HV	LV	HV	LV	HV	LV	HV
Bells Line of Road	West of Crooked Lane	EB	5,357	610	720	97	5,357	610	720	97
		WB	7,379	772	744	63	7,444	798	759	66
Crooked Lane	North of Bells Line of Road	NB	1,393	189	189	19	1,394	185	191	20
		SB	2,267	205	224	29	2,267	205	224	29
Bells Line of Road	East of Grose Vale Road / Terrace Road	EB	15,111	1,017	1,532	161	15,051	1,033	1,535	158
		WB	15,703	1,426	2,276	129	16,001	1,418	2,426	131
Bells Line of Road	West of Grose Vale Road / Terrace Road	EB	8,210	750	959	127	8,269	760	960	127
		WB	9,228	1,039	954	94	9,287	1,044	973	97
Terrace Road	North of Bells Line of Road	NB	4,216	257	463	26	4,210	265	475	25
		SB	2,906	236	411	33	2,906	236	411	33
Grose Vale Road	South of Bells Line of Road	NB	9,605	404	1,132	66	9,383	407	1,136	62
		SB	9,266	705	1,526	75	9,273	689	1,641	73
Grose Vale Road	South of Elizabeth Street	NB	7,792	391	878	67	7,512	406	804	60
		SB	4,970	392	700	23	4,744	356	724	17
Kurrajong Road	East of Old Kurrajong Road	EB	10,939	919	1,239	155	11,867	833	1,236	151
		WB	12,486	1,035	1,664	72	8,786	790	1,634	64
Bells Line of Road	West of Old Kurrajong Road	EB	14,528	989	1,450	170	14,574	1,008	1,451	166
		WB	17,136	1,457	2,796	113	17,548	1,457	2,974	114
Old Kurrajong Road	North of Bells Line of Road	NB	1,638	19	36	5	-	-	-	-
		SB	437	244	31	3	-	-	-	-
Old Kurrajong Road/Richmond Bypass	South of Bells Line of Road	NB	5,013	334	1,139	40	8,835	680	1,350	51
		SB	2,322	168	212	14	2,765	189	216	16
Old Kurrajong Road	Old Kurrajong to Bells Line of Road	LT	4,537	323	1,135	39	8,652	658	1,345	51
Kurrajong Road / March Street	East of Bosworth Street	EB	11,245	564	1,070	55	11,490	545	1,090	59
		WB	7,368	811	1,130	56	6,871	649	1,122	54
Kurrajong Road / March Street	West of Bosworth Street	EB	10,604	860	1,363	152	11,192	745	1,361	155
		WB	13,939	1,171	1,871	86	10,245	817	1,741	75
Bosworth Street	South of Kurrajong Road / March Street	NB	5,492	556	871	34	4,965	418	804	27
		SB	5,276	563	771	31	5,333	556	783	34
Lennox Street	East of Castlereagh Road	EB	6,237	600	639	36	5,837	544	639	38
		WB	3,746	393	1,030	51	2,688	288	974	43
Castlereagh Road	East of Inalls Lane	EB	4,704	372	485	42	5,118	381	468	47
		WB	3,516	348	598	48	4,185	521	591	48
Castlereagh Road	West of Southee Road	EB	4,067	366	344	39	4,961	390	558	59
		WB	3,167	284	581	36	5,469	455	598	36
Inalls Lane/Richmond Bypass	North of Castlereagh Road	NB	1,816	206	427	14	6,874	832	1,140	60
		SB	717	36	51	2	2,876	190	136	10

Road	Road Section	Dir	No Build 2029				Build 2029			
			Day		Night		Day		Night	
			LV	HV	LV	HV	LV	HV	LV	HV
Southee Road	South of Castlereagh Road	NB	1,854	222	451	7	114	4	27	1
		SB	622	38	52	4	111	-	4	-
Southee Road	North of Potts Street	NB	1,752	168	467	9	4,806	589	937	31
		SB	578	41	42	10	1,349	108	106	18
Richmond Bypass	North of Access Road Connection to Southee Road	NB	-	-	-	-	4,950	647	914	29
		SB	-	-	-	-	1,340	113	126	12
Londonderry Road	North of Southee Road	NB	2,094	211	213	18	2,086	183	218	13
		SB	2,483	85	573	22	3,132	144	599	30
Londonderry Road	South of Vines Drive	NB	3,454	378	392	26	4,781	641	655	44
		SB	2,810	58	639	30	4,355	140	743	43
Londonderry Road	Londonderry Road to Richmond Bypass	LT	876	114	223	7	2,334	409	479	29
Richmond Bypass	Richmond Bypass to Londonderry Road	LT	64	3	17	-	123	6	13	-
Drift Road	South of Inalls Lane	NB	744	32	192	6	457	-	75	-
		SB	2,950	186	157	5	300	-	71	-
Drift Road	South of Ivory Place	NB	463	32	117	6	159	-	-	-
		SB	2,748	183	89	5	11	-	2	-
Castlereagh Road	North of The Driftway	NB	4,551	402	465	44	5,143	395	561	59
		SB	5,880	467	665	41	5,518	461	596	37
The Driftway	South of Castlereagh Road	NB	1,804	122	495	36	1,210	37	265	24
		SB	5,826	531	280	27	3,955	432	199	17
Londonderry Road	Between turning lane onto Richmond Bypass & intersection	NB		-		-	2,446	232	176	15
Londonderry Road	Between Richmond Bypass intersection & turning lane onto Londonderry Road	NB		-		-	1,963	177	205	13
Bells Line of Road	Between Old Kurrajong Road intersection & lane entry from Richmond Bypass	NB		-		-	8,896	799	1,629	64
Richmond Bypass	Between turning lane to Kurrajong Road NB & Kurrajong Road	NB		-		-	183	22	4	-
Inalls Lane	South of Yarramundi Lane	NB	3,129	224	713	18		-		-
		SB	1,964	147	160	10		-		-
Yarramundi Lane	South of Inalls Lane	NB	1,870	119	431	21		-		-
		SB	422	18	53	4		-		-

Table 2: Traffic Volumes – 2039

Road	Road Section	Dir	No Build 2038				Build 2038			
			Day		Night		Day		Night	
			LV	HV	LV	HV	LV	HV	LV	HV
Bells Line of Road	West of Crooked Lane	EB	5,184	612	667	94	5,182	612	667	94
		WB	7,965	867	741	61	7,943	839	765	63
Crooked Lane	North of Bells Line of Road	NB	1,616	226	218	18	1,631	231	220	18
		SB	2,707	220	311	29	2,705	220	311	29
Bells Line of Road	East of Grose Vale Road / Terrace Road	EB	15,436	1,050	1,648	155	16,923	1,130	1,607	158
		WB	16,608	1,513	2,317	128	16,642	1,499	2,584	131
Bells Line of Road	West of Grose Vale Road / Terrace Road	EB	8,432	794	1,004	123	8,456	788	1,004	122
		WB	9,940	1,152	968	87	10,017	1,155	993	86
Terrace Road	North of Bells Line of Road	NB	4,150	232	474	32	4,241	240	480	32
		SB	3,164	283	418	30	3,163	283	418	30
Grose Vale Road	South of Bells Line of Road	NB	9,374	365	1,260	62	11,215	481	1,222	65
		SB	9,232	759	1,590	69	9,375	756	1,832	72
Grose Vale Road	South of Elizabeth Street	NB	7,443	345	942	62	9,176	455	819	60
		SB	4,758	438	756	19	4,752	425	905	17
Kurrajong Road	East of Old Kurrajong Road	EB	11,573	978	1,311	145	12,710	823	1,125	120
		WB	12,911	1,039	1,684	70	7,823	663	1,593	59
Bells Line of Road	West of Old Kurrajong Road	EB	14,936	1,044	1,558	161	16,427	1,105	1,524	163
		WB	18,111	1,554	2,856	108	18,140	1,544	3,156	113
Old Kurrajong Road	North of Bells Line of Road	NB	1,280	18	55	6	-	-	-	-
		SB	536	218	43	3	-	-	-	-
Old Kurrajong Road/Richmond Bypass	South of Bells Line of Road	NB	5,575	469	1,189	37	10,679	899	1,578	57
		SB	2,472	163	246	17	3,834	301	405	46
Old Kurrajong Road	Old Kurrajong to Bells Line of Road	LT	5,248	453	1,173	37	10,486	878	1,567	56
Kurrajong Road / March Street	East of Bosworth Street	EB	12,039	684	1,143	57	13,073	708	1,063	50
		WB	7,310	692	1,122	60	6,370	660	1,158	56
Kurrajong Road / March Street	West of Bosworth Street	EB	10,965	884	1,411	151	12,113	762	1,276	129
		WB	14,372	1,180	1,857	84	9,294	767	1,743	71
Bosworth Street	South of Kurrajong Road / March Street	NB	5,955	609	841	39	3,981	405	780	31
		SB	6,043	559	825	40	5,756	469	683	30
Lennox Street	East of Castlereagh Road	EB	6,680	596	703	36	5,771	408	527	27
		WB	3,741	439	1,053	52	2,254	196	802	36
Castlereagh Road	East of Inalls Lane	EB	4,651	414	477	40	4,630	460	621	50
		WB	3,677	420	612	42	5,522	650	618	40
Castlereagh Road	West of Southee Road	EB	3,784	385	340	35	4,306	417	591	55
		WB	3,405	362	568	36	5,651	431	674	38
Inalls Lane/Richmond Bypass	North of Castlereagh Road	NB	1,803	319	442	14	8,657	1,101	1,325	69
		SB	543	39	47	2	3,895	297	273	29
Southee Road	South of Castlereagh Road	NB	2,299	337	443	11	104	4	22	1
		SB	492	27	50	2	104	-	5	-

Road	Road Section	Dir	No Build 2038				Build 2038			
			Day		Night		Day		Night	
			LV	HV	LV	HV	LV	HV	LV	HV
Southee Road	North of Potts Street	NB	2,355	276	461	12	321	-	47	0
		SB	509	27	45	4	156	3	36	-
Richmond Bypass	North of Access Road Connection to Southee Road	NB	-	-	-	-	7,368	993	1,363	49
		SB	-	-	-	-	2,895	329	265	31
Richmond Bypass	South of Access Road Connection to Southee Road	NB	-	-	-	-	7,327	918	1,385	50
		SB	-	-	-	-	2,930	321	242	33
Londonderry Road	North of Southee Road	NB	1,975	224	227	16	1,711	130	145	9
		SB	2,468	65	571	22	2,082	88	613	31
Londonderry Road	South of Vines Drive	NB	3,565	511	417	28	5,519	811	797	52
		SB	2,456	62	640	24	5,812	303	898	49
Londonderry Road	Londonderry Road to Richmond Bypass	LT	1,129	228	219	11	3,777	673	676	45
Richmond Bypass	Richmond Bypass to Londonderry Road	LT	140	6	18	-	289	42	39	5
Drift Road	South of Inalls Lane	NB	868	38	140	8	416	2	81	-
		SB	3,654	171	157	5	253	-	72	-
Drift Road	South of Ivory Place	NB	664	38	73	8	188	2	14	-
		SB	3,556	170	87	5	58	-	2	-
Castlereagh Road	North of The Driftway	NB	4,477	420	411	42	4,520	418	604	54
		SB	6,969	501	649	41	5,716	438	671	39
The Driftway	South of Castlereagh Road	NB	1,848	156	540	42	1,076	39	220	28
		SB	6,168	536	306	26	3,069	324	229	16
Londonderry Road	Between turning lane onto Richmond Bypass & intersection	NB		-		-	1,742	138	121	7
Londonderry Road	Between Richmond Bypass intersection & turning lane onto Londonderry Road	NB		-		-	1,422	88	106	5
Bells Line of Road	Between Old Kurrajong Road intersection & lane entry from Richmond Bypass	NB		-		-	7,655	666	1,589	56
Richmond Bypass	Between Londonderry Road & lane entry from Londonderry Road	NB		-		-	3,550	246	709	5
Richmond Bypass	Between turning lane to Kurrajong Road NB & Kurrajong Road	NB		-		-	193	21	11	1
Richmond Bypass	Between turning lane to Londonderry Road EB & Londonderry Road	SB		-		-	2,641	280	203	28
Inalls Lane	South of Yarramundi Lane	NB	3,535	306	643	18		-		-
		SB	2,220	143	163	11		-		-
Yarramundi Lane	South of Inalls Lane	NB	1,998	173	550	19		-		-
		SB	246	18	80	6		-		-

Table 3: Existing traffic volumes – Validation

ID	Road Section	Direction	Validation Traffic Volumes					
			15 Hour Daytime (0700 2200)			9 Hour Night time (2200 0700)		
			Speed	Light Vehicles	Heavy Vehicles	Speed	Light Vehicles	Heavy Vehicles
TC1-NB[1]	Bells line of Road - North of Terrace	NB	48	7,478	771	56	515	128
TC1-SB[1]		SB	50	6,828	677	54	1,141	189
TC2-EB[1]	Terrace Rd	EB	62	2,017	398	66	146	48
TC2-WB[1]		SB	58	2,296	259	62	267	59
TC3-EB[1]	Grose Vale Rd	EB	40	5,225	603	45	1,017	155
TC3-WB[1]		WB	41	5,798	722	43	442	92
TC4-NB[1]	Bells line of Road - South of Terrace Rd (near Bridge)	NB	56	13,436	1,550	61	1,083	252
TC4-SB[1]		SB	62	12,267	1,531	65	2,396	445
TC5-NB[3]	Bells line of Road - South of Hawksbury River[3]	NB	NA	NA	NA	NA	NA	NA
TC5-SB[3]		SB	NA	NA	NA	NA	NA	NA
TC6-NB[2]	Castlereagh Between Southee and Long Street	NB	58	2,857	301	60	376	69
TC6-SB[2]		SB	60	3,207	376	61	221	48
TC7-NB[2]	Castlereagh Between South and Drift	NB	77	2,578	393	78	322	78
TC7-SB[2]		SB	76	2,708	388	77	248	52
TC8-NB[2]	Southee Rd	NB	53	1,531	123	55	185	16
TC8-SB[2]		SB	52	1,428	121	55	215	24
TC9-NB[2]	Londonderry Road	NB	79	2,950	623	81	350	94
TC9-SB[2]		SB	77	3,399	265	80	420	51

Note 1: Validation of the noise model was completed using data from 12 to 15 September 2023 and 18 September, excluding weekends which tend to have lower and intermittent traffic volumes.

Note 2: Validation of the noise model was completed using data from 12 to 15 September 2023 and 21 September, excluding weekends which tend to have lower and intermittent traffic volumes.

Note 3: No valid traffic data collected during the monitoring period in the northbound lane and therefore not used.

Operational road traffic noise maps

Figure 1: Predicted noise levels No Build 2029 Day

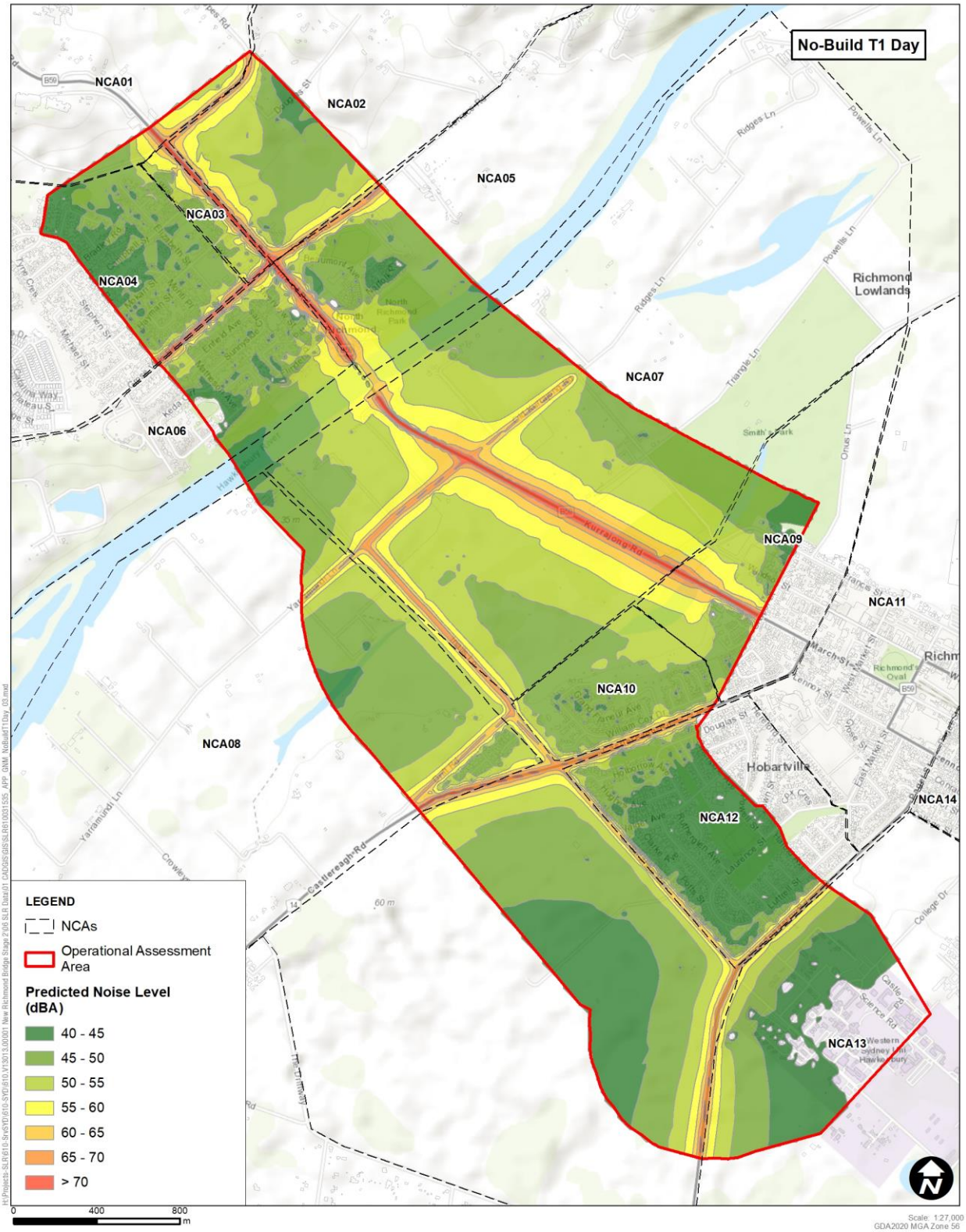


Figure 2: Stage 2A predicted noise levels No Build 2029 Night



Figure 3: Predicted noise levels No Build 2039Day

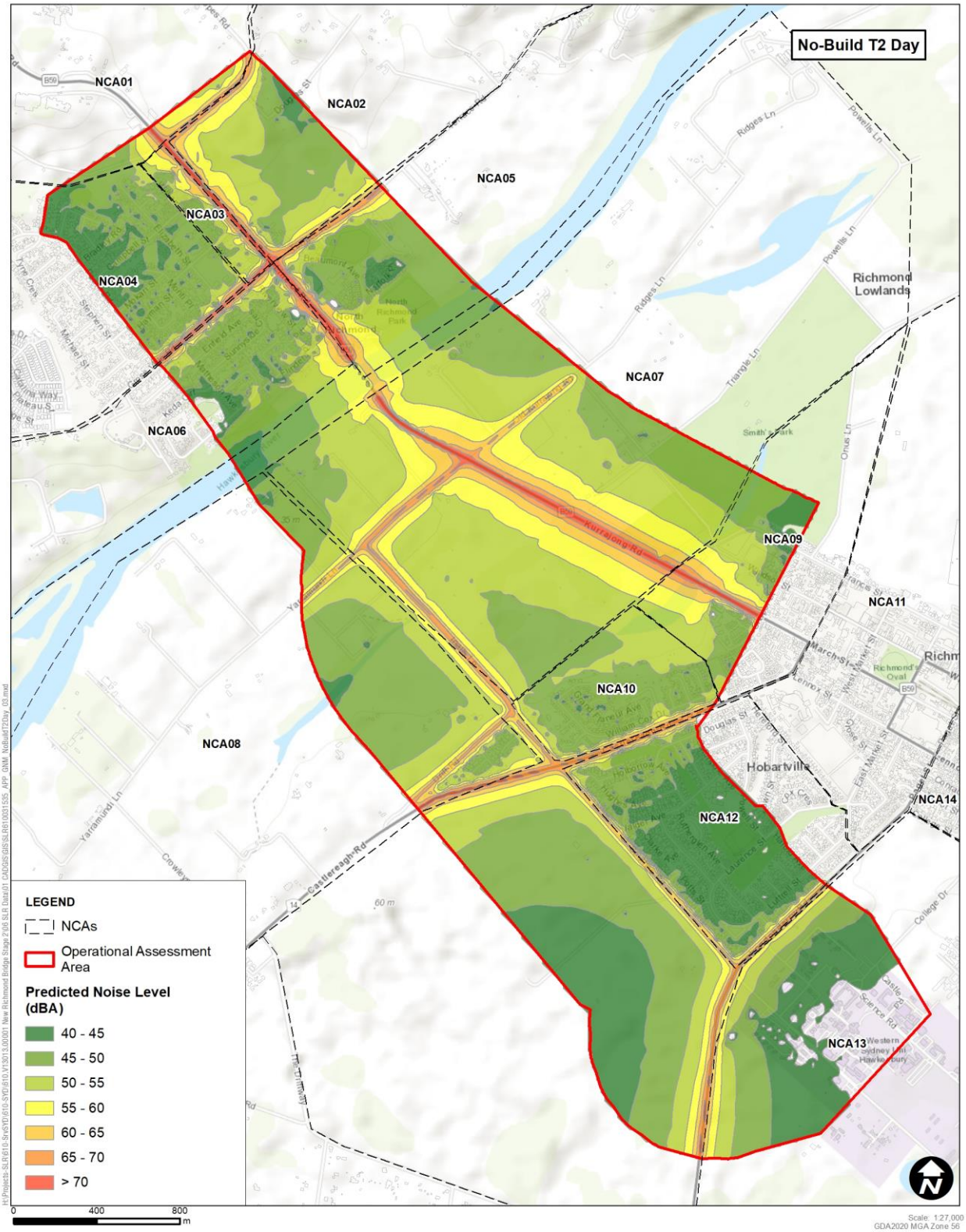


Figure 4: Predicted noise levels No Build 2039 Night



Figure 5: Predicted noise levels Build 2029 Day

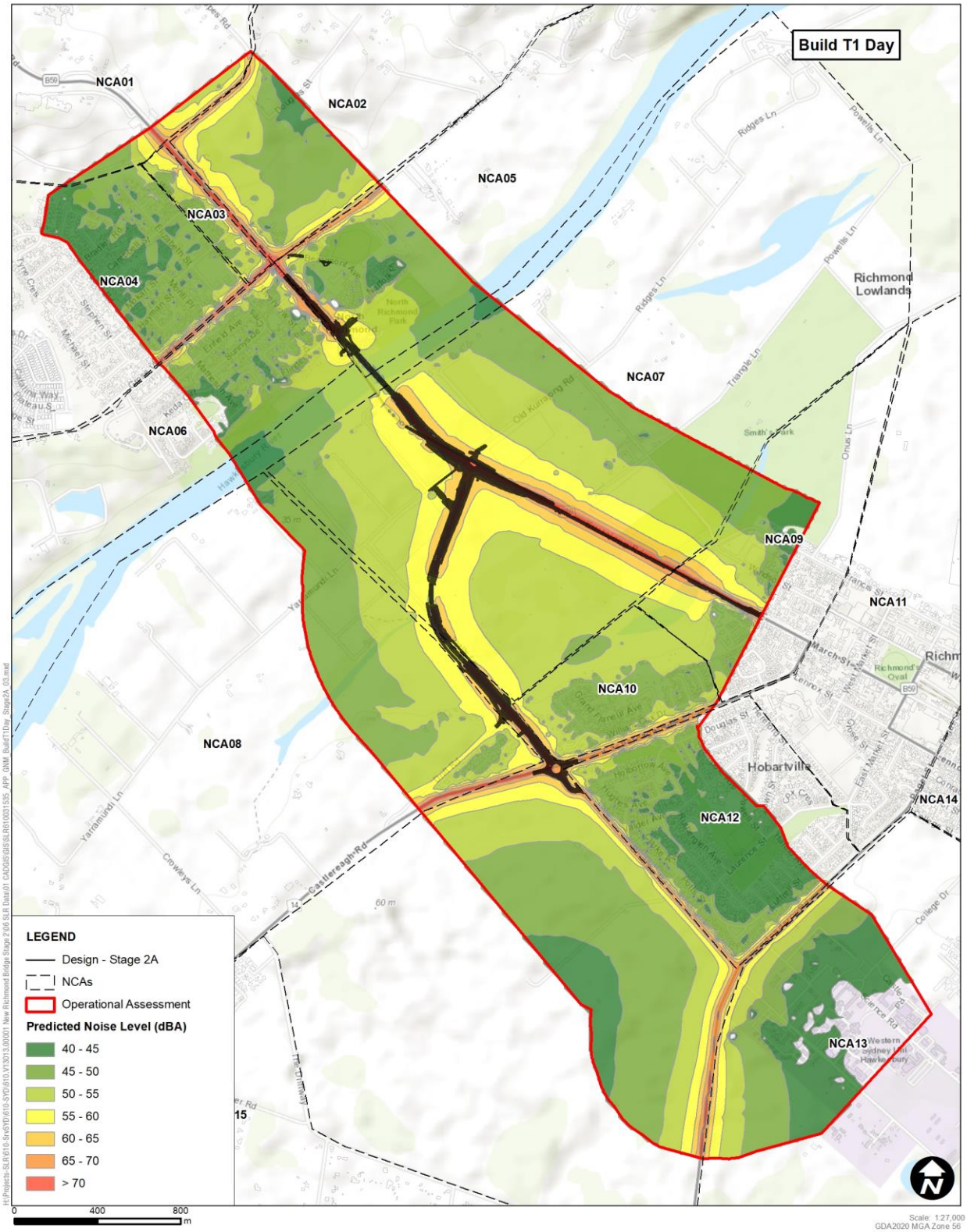


Figure 6: Predicted noise levels Build 2029 Night

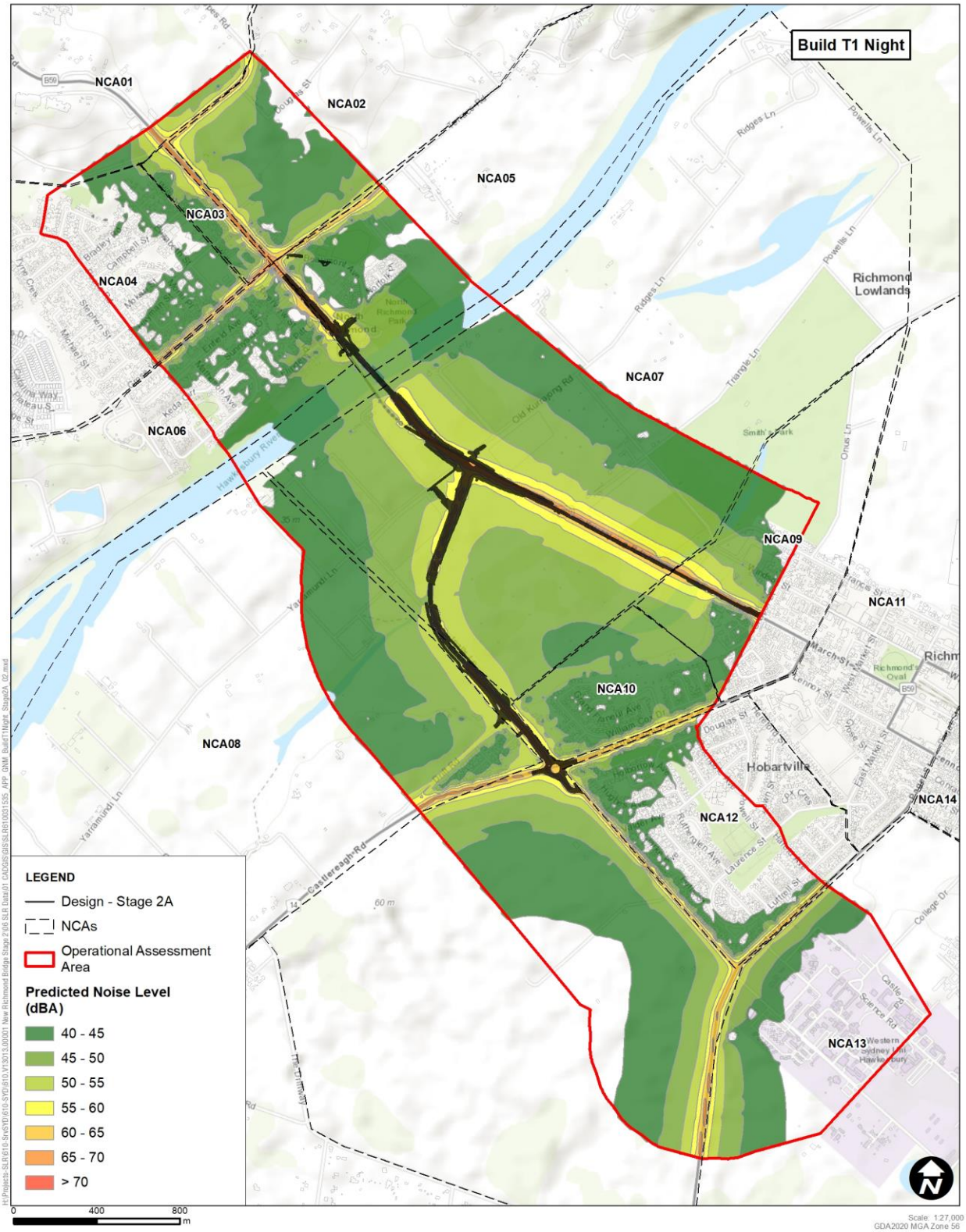


Figure 7: Predicted noise levels Build 2039 Day

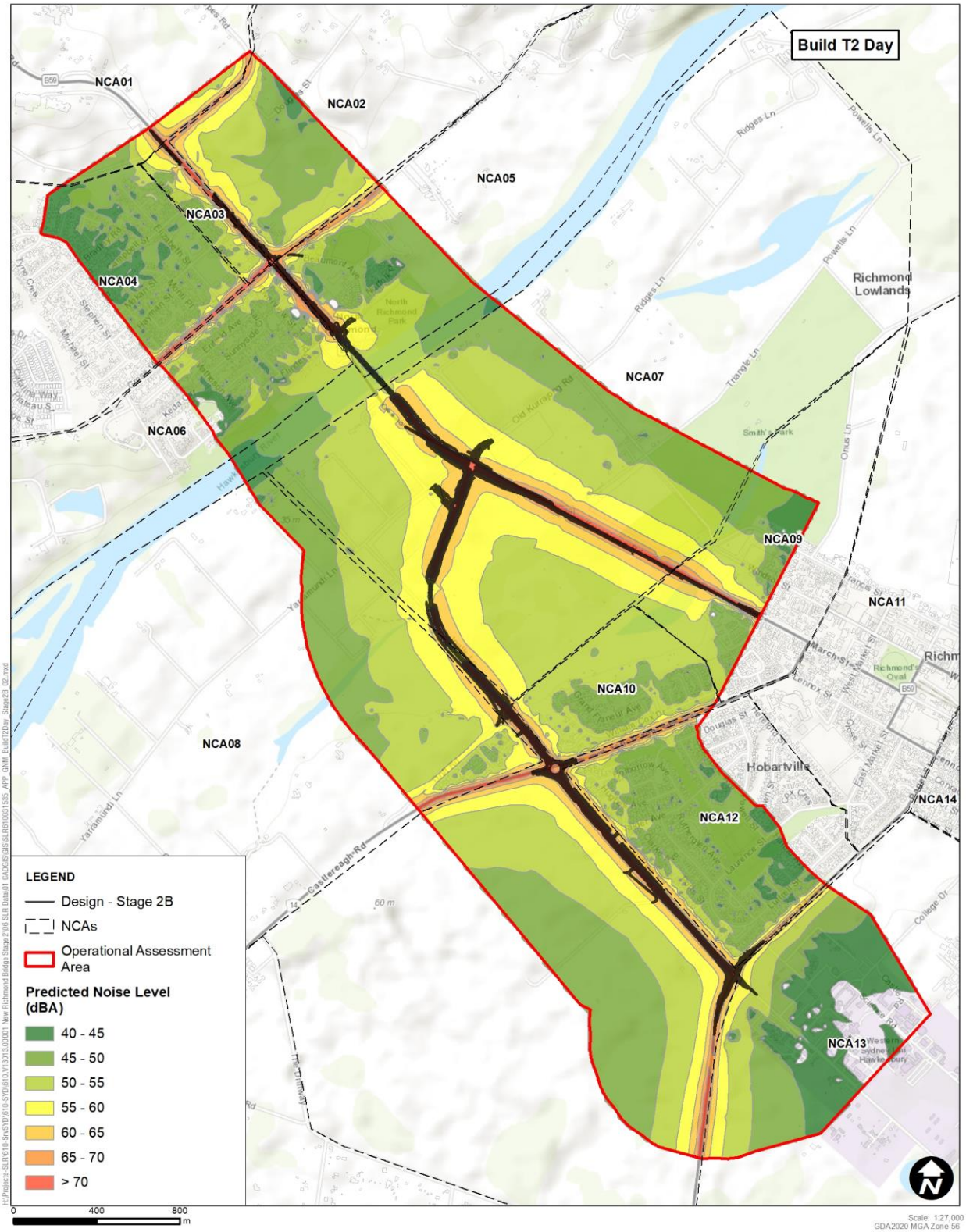


Figure 8: Predicted noise levels Build 2039 Night

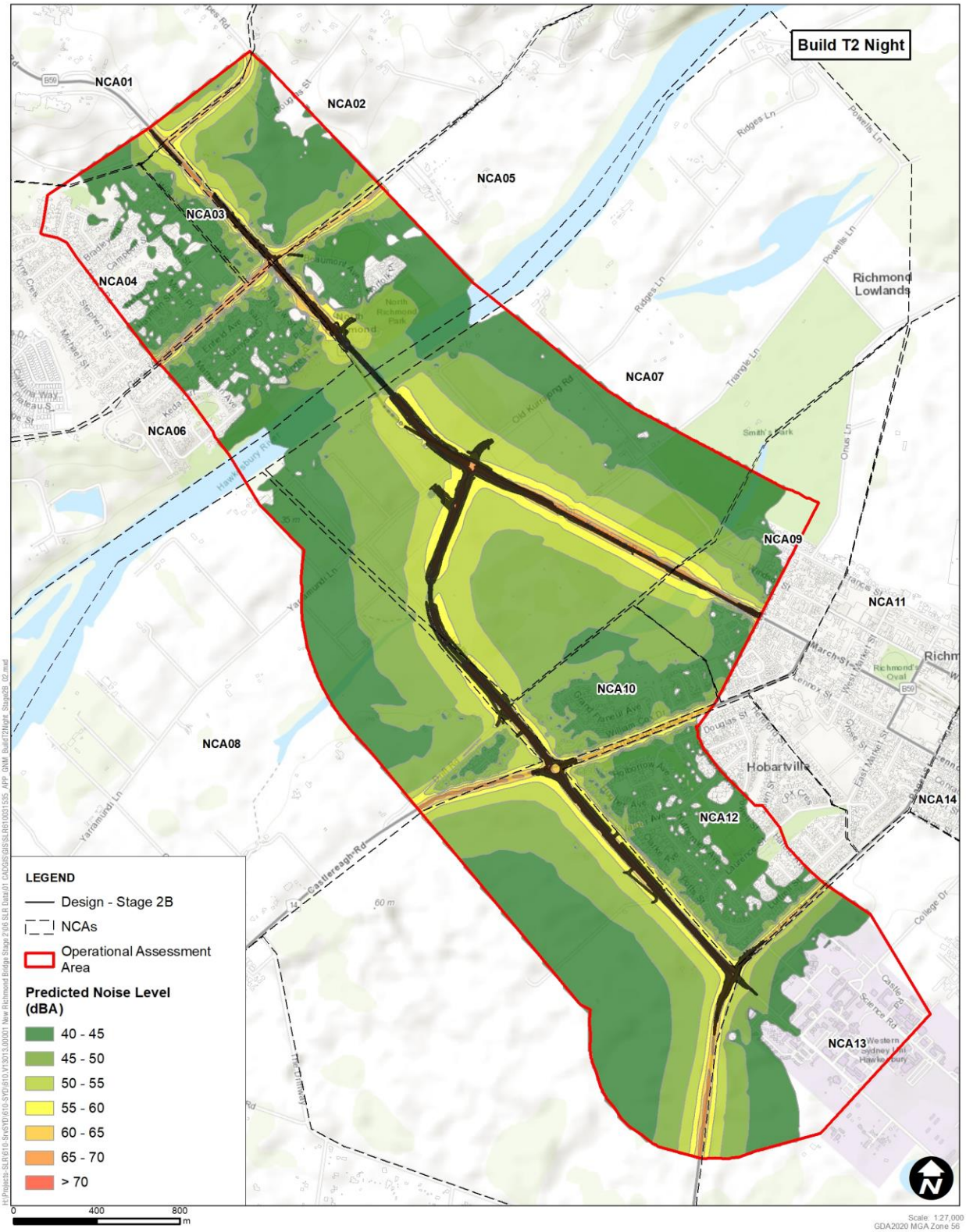


Figure 9: Stage 2A project and non-project roads

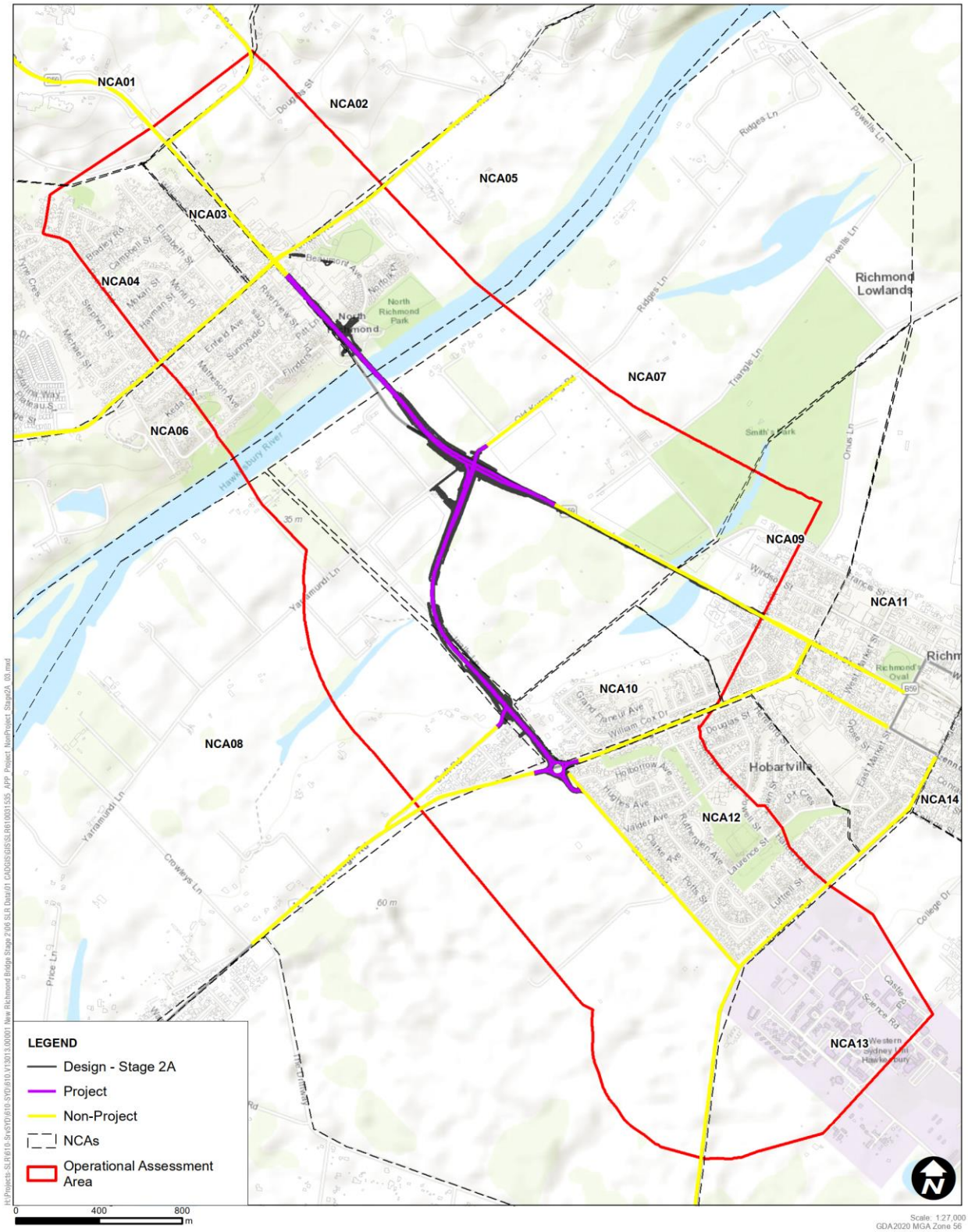


Figure 10: Stage 2B project and non-project roads

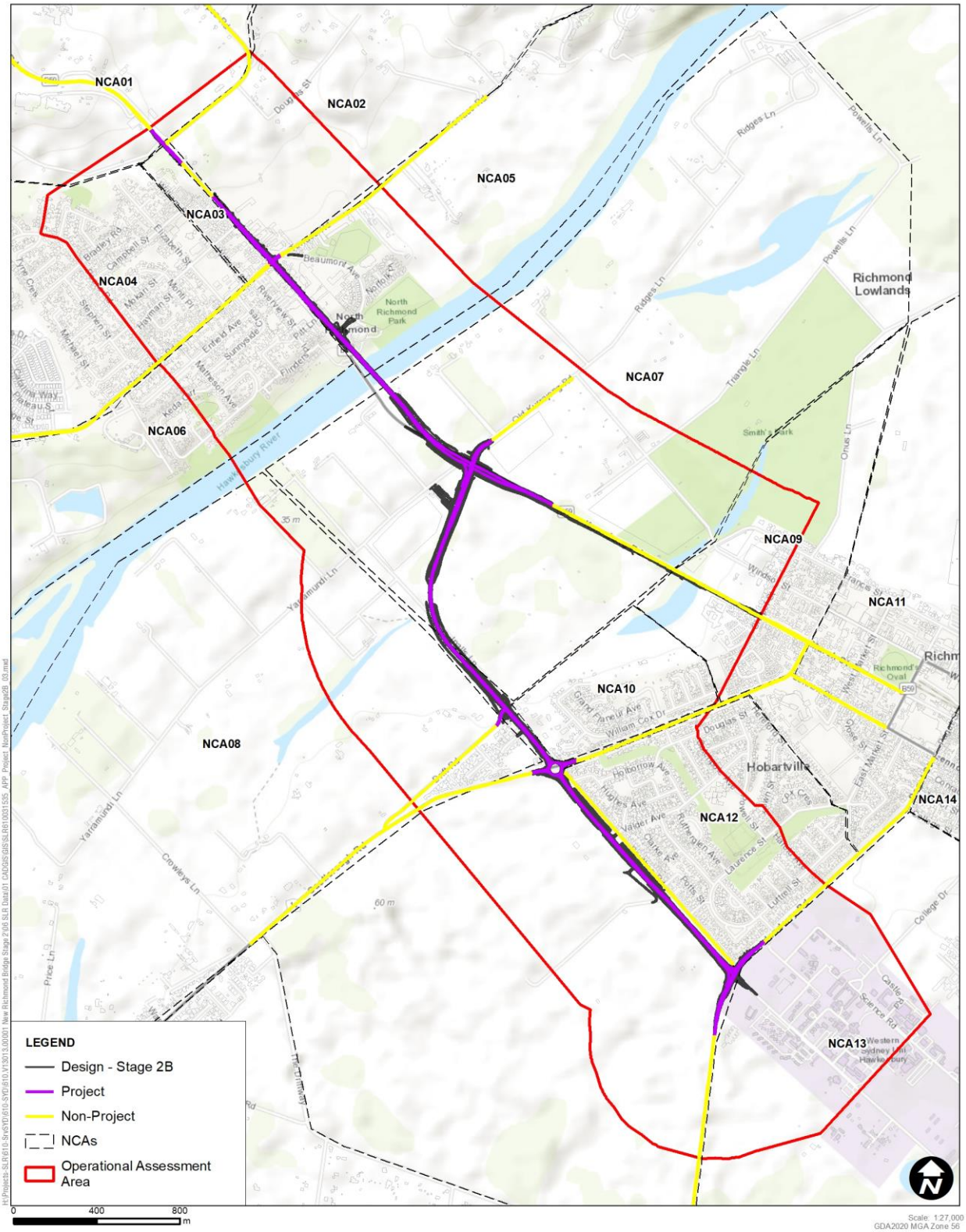


Figure 11: Stage 2A transition zones

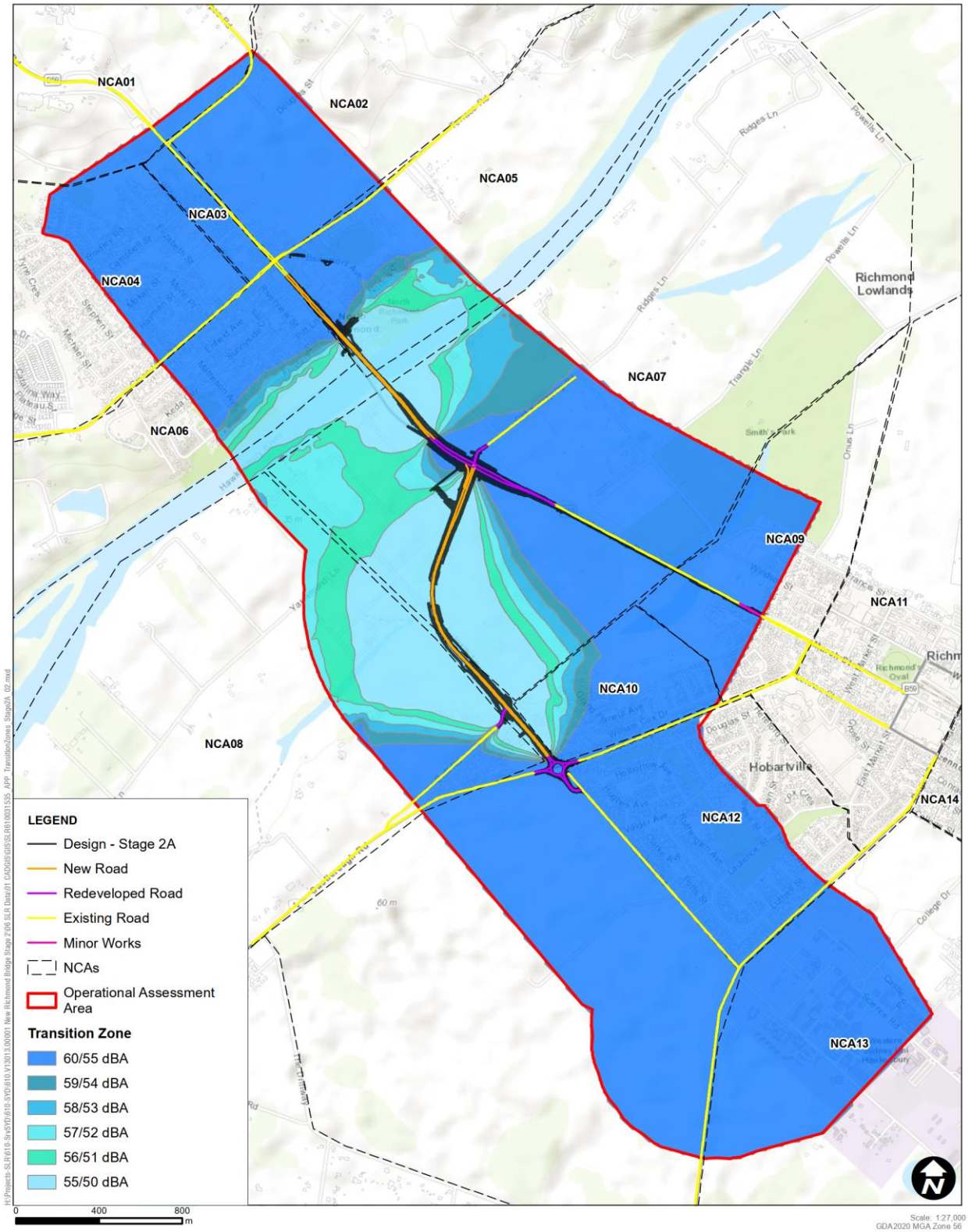


Figure 12: Stage 2B transition zones

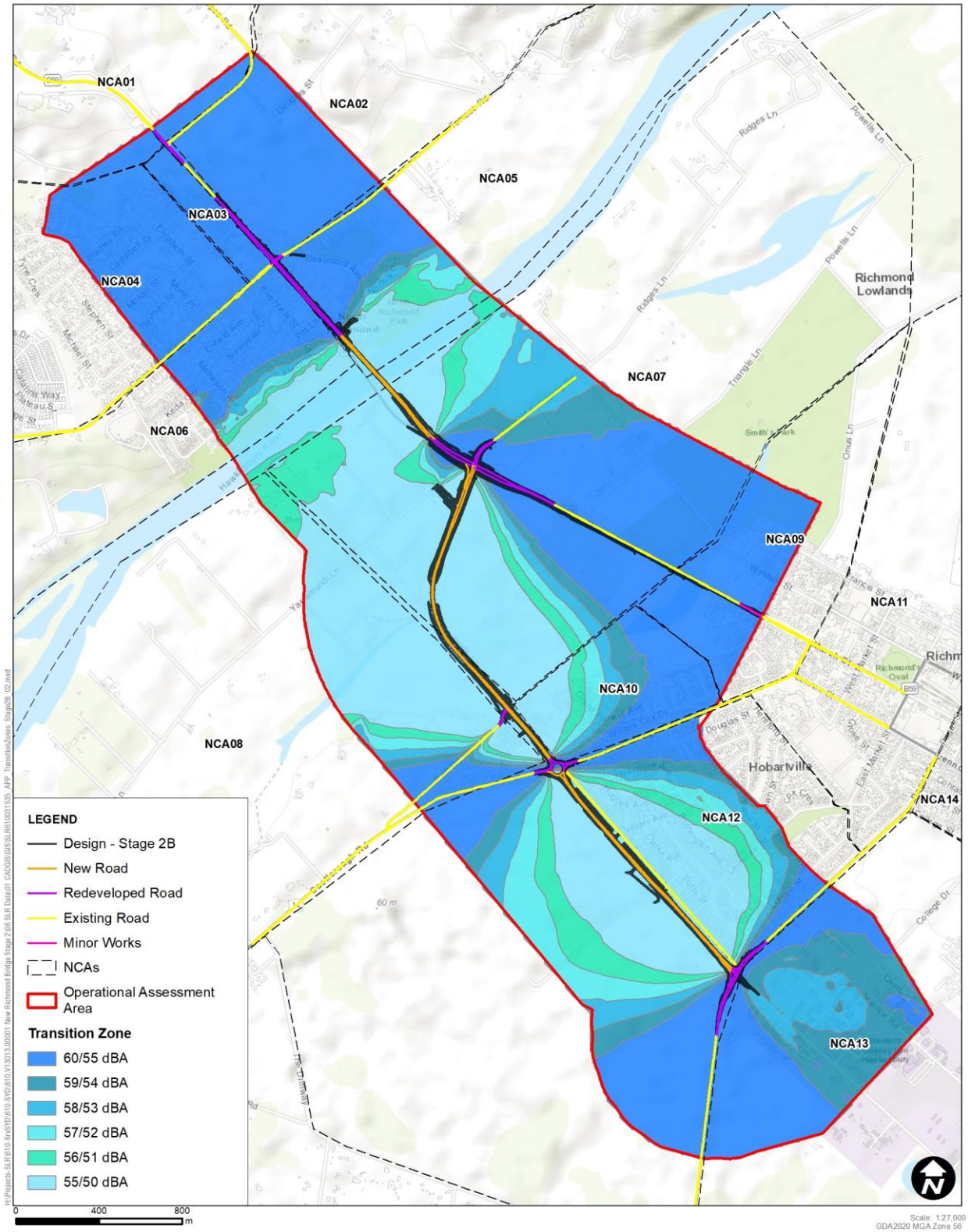
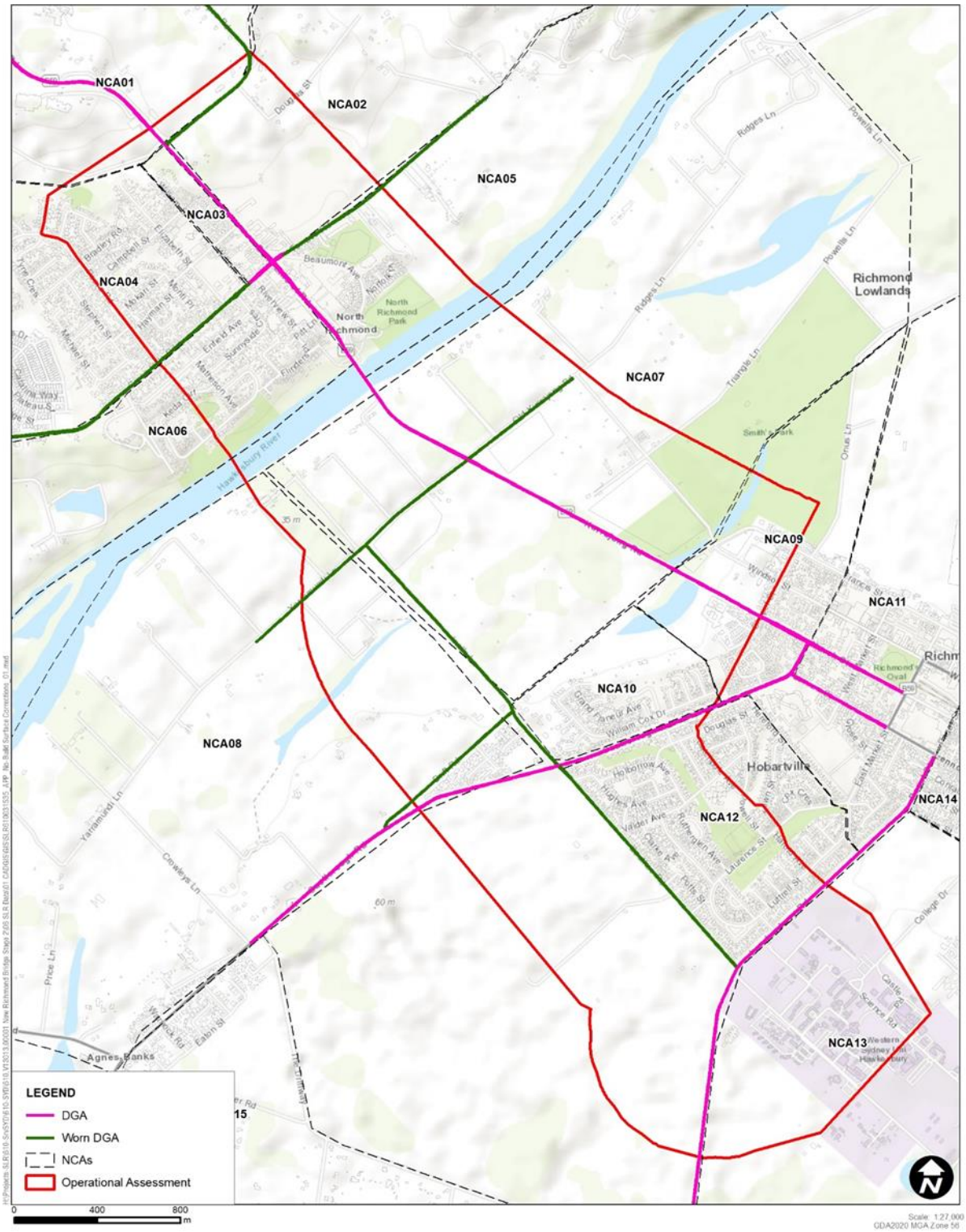


Figure 13: No Build surface corrections



Existing Maximum Noise Levels

The values in the tables below represent the number of maximum noise level events in each one hour period and the numbers in parenthesis represent the range of maximum noise levels in that hour (ie 10 (70-80) would represent 10 maximum noise events between 70-80 dBA LAmax).

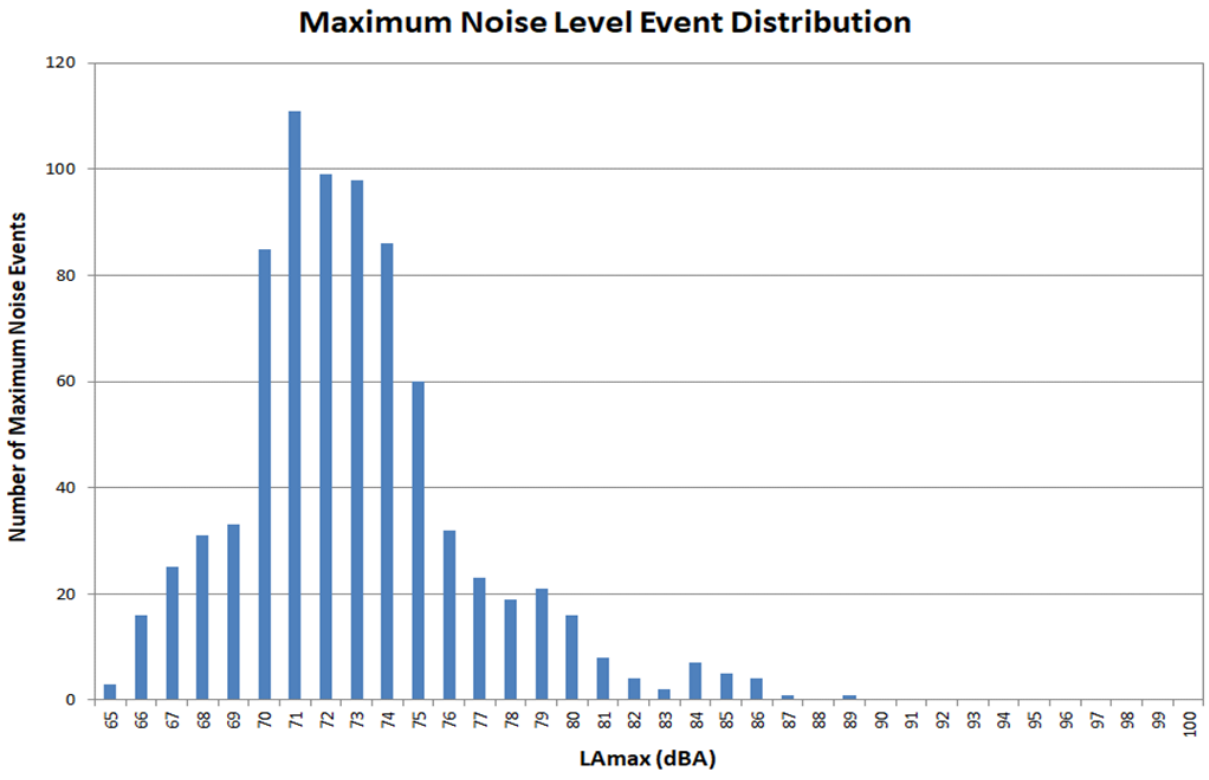
L02 – 12 Grose Vale Road, North Richmond

Table 4: L02 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (range of LAmax Noise Levels, dBA)									
	00:00 01:00	01:00 02:00	02:00 03:00	03:00 04:00	04:00 05:00	05:00 06:00	06:00 07:00	22:00 23:00	23:00 00:00	Total/ (Range)
11-Sep-23	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	5 (74-78)	13 (70-79)	18 (70-79)
12-Sep-23	19 (69-73)	16 (69-73)	19 (69-75)	8 (74-80)	5 (79-82)	2 (83-84)	2 (85)	3 (74-76)	13 (71-74)	87 (69-85)
13-Sep-23	13 (69-79)	10 (66-77)	17 (70-76)	14 (73-79)	5 (80-83)	-	-	4 (76-80)	13 (71-77)	76 (66-83)
14-Sep-23	14 (70-74)	-	20 (70-75)	14 (72-77)	1 (79)	1 (83)	-	3 (76-78)	10 (73-79)	63 (70-83)
15-Sep-23	8 (72-78)	13 (66-74)	11 (72-75)	18 (73-78)	3 (79)	1 (84)	1 (85)	1 (77)	2 (74-80)	58 (66-85)
16-Sep-23	7 (72-74)	16 (70-74)	16 (68-73)	16 (70-75)	12 (74-78)	2 (79-84)	1 (84)	1 (82)	1 (77)	72 (68-84)
17-Sep-23	10 (73-76)	12 (71-76)	17 (69-79)	15 (69-75)	13 (71-75)	5 (75-78)	4 (78)	5 (75-79)	11 (70-73)	92 (69-79)
18-Sep-23	14 (68-72)	12 (66-75)	16 (68-78)	13 (73-77)	6 (77-80)	-	-	4 (75-79)	8 (72-80)	73 (66-80)
19-Sep-23	15 (68-74)	14 (65-71)	13 (68-72)	14 (72-77)	4 (79-80)	-	2 (87-89)	3 (74-77)	7 (72-76)	72 (65-89)
20-Sep-23	11 (71-81)	11 (66-73)	14 (70-73)	12 (73-79)	2 (78-81)	-	1 (86)	3 (77-81)	10 (72-78)	64 (66-86)
21-Sep-23	9 (74-79)	13 (66-69)	11 (71-76)	10 (72-76)	1 (80)	-	4 (84-86)	1 (86)	4 (73-80)	53 (66-86)
22-Sep-23	10 (72-77)	15 (69-72)	13 (71-74)	15 (74-78)	6 (79-80)	1 (82)	2 (0-86)	n/a[1]	n/a[1]	62 (0-86)

Note 1: This period was outside of the period of unattended noise monitoring.

Figure 14: L02 Maximum noise level event distribution of monitoring period



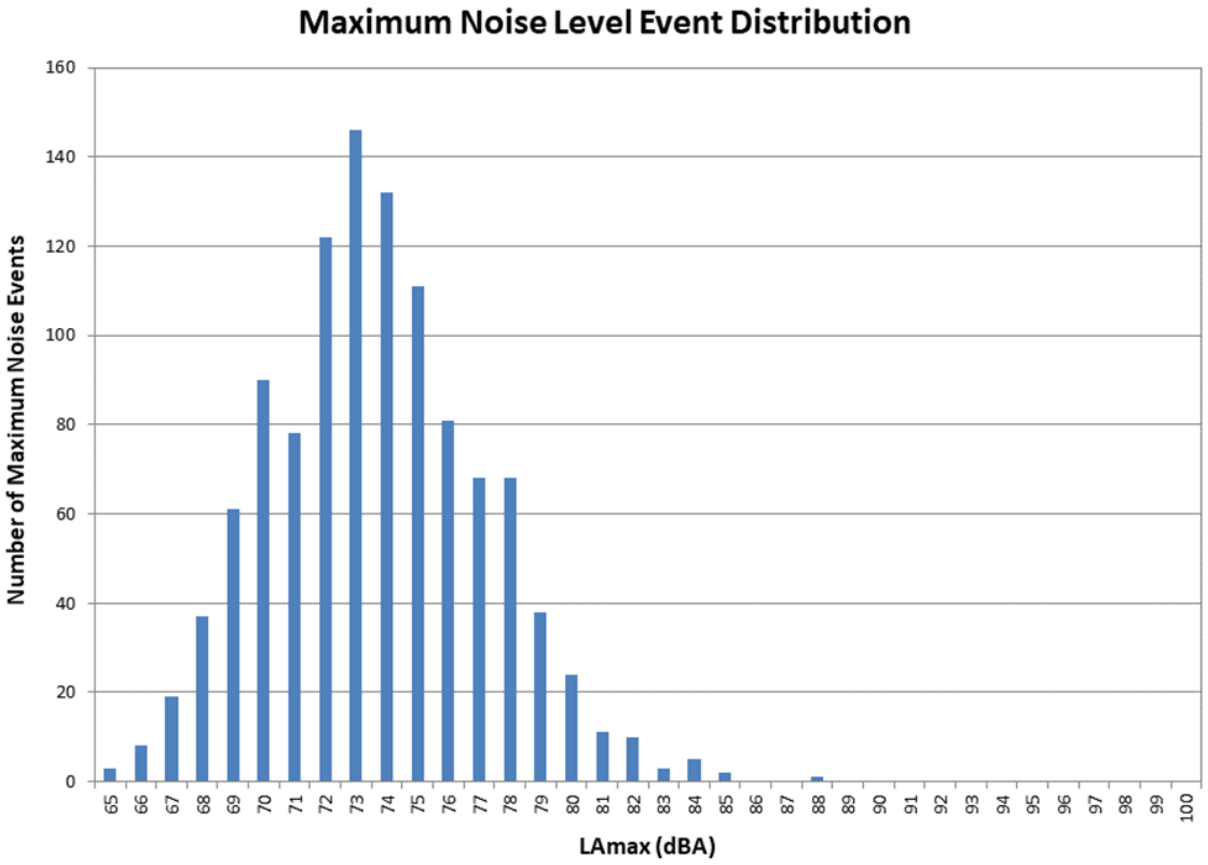
L03 – 19 Terrace Road

Table 5: L03 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels, dBA)									
	00:00 01:00	01:00 02:00	02:00 03:00	03:00 04:00	04:00 05:00	05:00 06:00	06:00 07:00	22:00 23:00	23:00 00:00	Total/ (Range)
11-Sep-23	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	17 (69-78)	10 (68-78)	27 (68-78)
12-Sep-23	7 (66-75)	5 (67-77)	10 (66-75)	13 (67-77)	22 (72-82)	8 (77-83)	3 (79-80)	22 (71-79)	13 (70-76)	103 (66-83)
13-Sep-23	1 (78)	3 (73-75)	6 (70-77)	9 (70-76)	21 (73-78)	10 (78-83)	3 (80-83)	24 (69-76)	12 (66-75)	89 (66-83)
14-Sep-23	5 (65-76)	1 (70)	10 (70-79)	9 (68-75)	16 (72-79)	9 (78-81)	3 (79-80)	16 (74-78)	15 (69-78)	84 (65-81)
15-Sep-23	14 (68-75)	4 (70-81)	6 (71-77)	7 (65-78)	23 (72-80)	8 (77-80)	6 (79-84)	19 (70-75)	2 (73)	89 (65-84)
16-Sep-23	14 (67-77)	6 (67-73)	7 (65-77)	8 (67-77)	15 (68-76)	18 (73-79)	13 (77-82)	16 (72-76)	23 (69-78)	120 (65-82)
17-Sep-23	18 (69-76)	11 (66-74)	8 (67-77)	7 (68-75)	9 (69-78)	15 (71-80)	17 (74-81)	15 (70-78)	14 (68-78)	114 (66-81)
18-Sep-23	3 (72-76)	8 (66-80)	6 (68-77)	13 (69-82)	23 (73-80)	8 (77-82)	-	16 (68-76)	13 (68-80)	90 (66-82)
19-Sep-23	10 (67-78)	4 (70-78)	6 (67-77)	12 (69-80)	21 (73-79)	6 (77-82)	3 (81-84)	20 (69-76)	15 (67-79)	97 (67-84)
20-Sep-23	7 (69-73)	4 (70-76)	12 (67-77)	9 (69-78)	24 (70-80)	12 (77-80)	2 (80)	26 (69-76)	14 (66-80)	110 (66-80)
21-Sep-23	6 (68-74)	8 (68-74)	10 (68-85)	13 (69-79)	17 (74-88)	9 (77-85)	3 (79-82)	27 (73-78)	12 (69-78)	105 (68-88)
22-Sep-23	13 (68-75)	8 (68-82)	7 (67-78)	14 (72-84)	29 (72-78)	15 (78-84)	4 (0-81)	n/a[1]	n/a[1]	90 (0-84)

Note 1: This period was outside of the period of unattended noise monitoring.

Figure 15: L03 maximum noise level event distribution of monitoring period



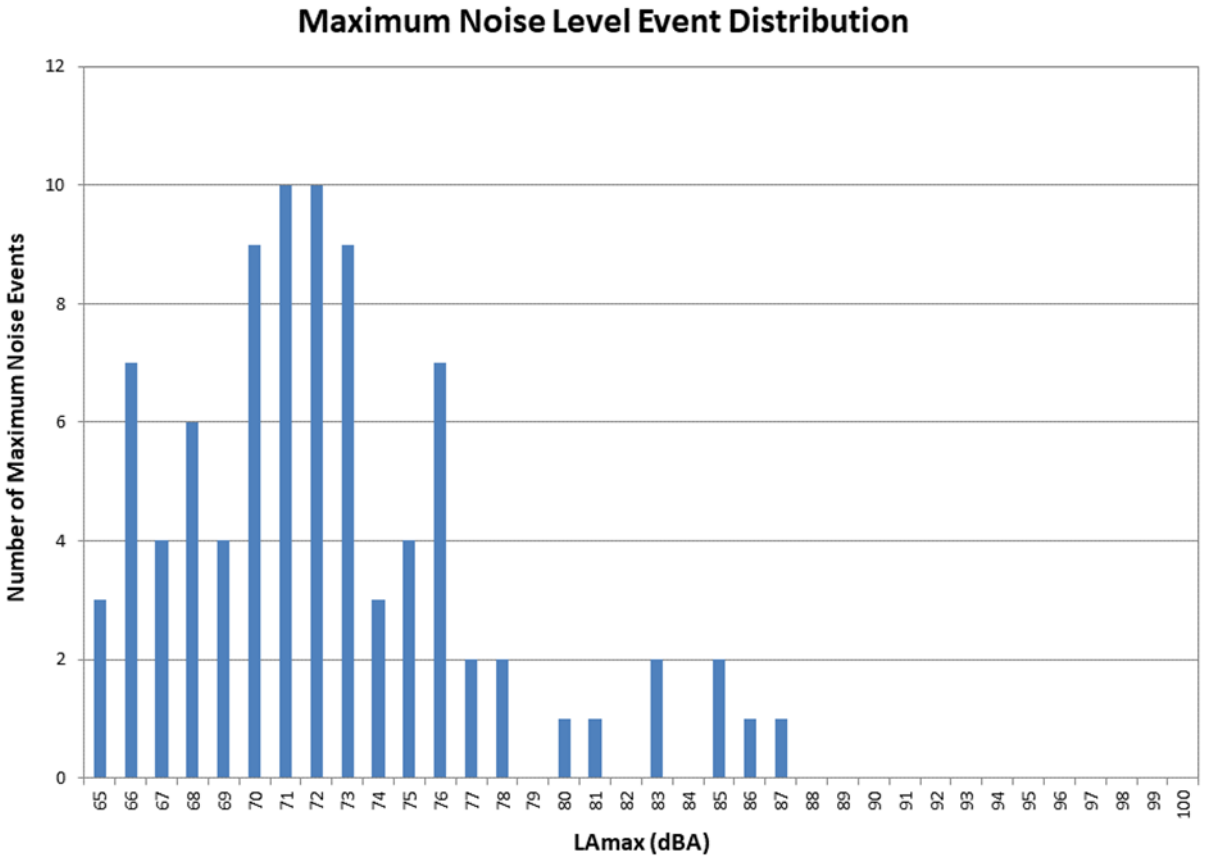
L05 – 148 Old Kurrajong Road

Table 6: L05 maximum noise level events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels, dBA)									
	00:00 01:00	01:00 02:00	02:00 03:00	03:00 04:00	04:00 05:00	05:00 06:00	06:00 07:00	22:00 23:00	23:00 00:00	Total/ (Range)
11-Sep-23	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	-	-	-
12-Sep-23	-	-	-	-	-	1 (69)	2 (70-71)	4 (67-72)	-	7 (67-72)
13-Sep-23	-	-	1 (70)	-	-	-	-	-	-	1 (70)
14-Sep-23	-	-	-	1 (67)	-	-	2 (71-72)	-	-	3 (67-72)
15-Sep-23	-	-	-	-	2 (66)	-	3 (71-72)	-	-	5 (66-72)
16-Sep-23	2 (65-66)	-	-	-	1 (72)	6 (73-75)	2 (69-70)	6 (68-73)	2 (66-71)	19 (65-75)
17-Sep-23	-	1 (71)	-	-	-	2 (71-83)	18 (75-86)	-	3 (66-68)	24 (66-86)
18-Sep-23	-	-	-	-	1 (65)	2 (70-73)	1 (74)	-	-	4 (65-74)
19-Sep-23	-	-	-	-	-	2 (71-73)	1 (71)	1 (66)	-	4 (66-73)
20-Sep-23	3 (65-66)	-	-	-	-	-	6 (70-81)	-	-	9 (65-81)
21-Sep-23	-	-	1 (72)	-	-	1 (69)	2 (68-69)	-	-	4 (68-72)
22-Sep-23	-	-	-	-	-	3 (70-72)	5 (0-73)	n/a[1]	n/a[1]	8 (0-73)

Note 1: This period was outside of the period of unattended noise monitoring.

Figure 16: L02 maximum noise level event distribution of monitoring period



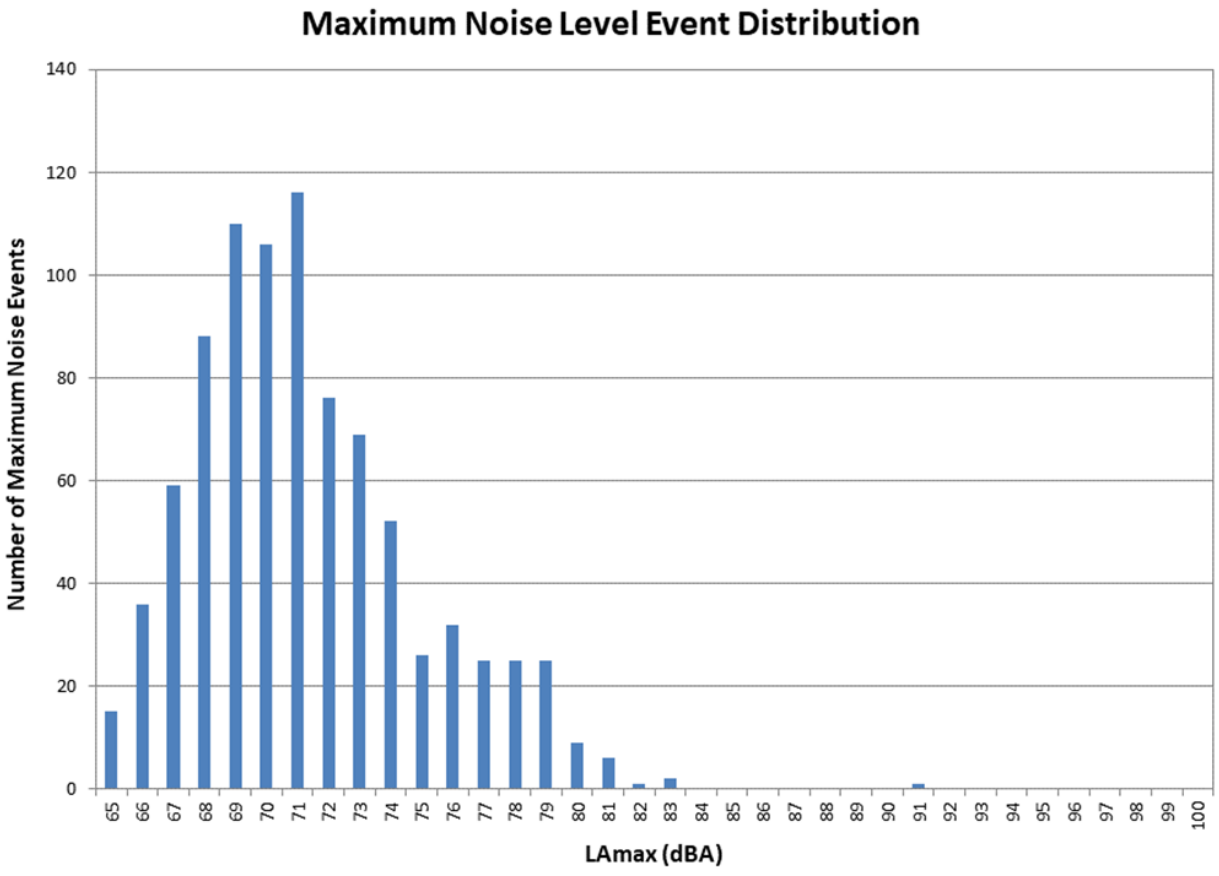
L07 – 9 Southee Road

Table 7: L07 Maximum Noise Level Events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels, dBA)									
	00:00 01:00	01:00 02:00	02:00 03:00	03:00 04:00	04:00 05:00	05:00 06:00	06:00 07:00	22:00 23:00	23:00 00:00	Total/ (Range)
11-Sep-23	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	n/a[1]	17 (68-75)	11 (67-74)	28 (67-75)
12-Sep-23	7 (68-75)	5 (69-82)	8 (66-74)	10 (68-74)	17 (70-77)	3 (76-79)	2 (79-81)	14 (69-74)	14 (68-81)	80 (66-82)
13-Sep-23	3 (68-73)	3 (67-74)	4 (68-73)	11 (69-79)	18 (70-79)	4 (77-81)	2 (78-80)	18 (68-72)	9 (66-73)	72 (66-81)
14-Sep-23	4 (67-73)	3 (65-68)	11 (67-77)	10 (67-74)	18 (70-77)	6 (77-79)	2 (79-80)	14 (71-76)	15 (67-75)	83 (65-80)
15-Sep-23	16 (67-74)	3 (68-75)	6 (67-75)	6 (66-76)	12 (72-81)	8 (76-79)	4 (78-79)	6 (71-73)	13 (67-74)	74 (66-81)
16-Sep-23	14 (67-75)	4 (67-69)	8 (65-77)	6 (65-74)	14 (68-74)	14 (72-79)	8 (76-79)	6 (71-73)	12 (69-73)	86 (65-79)
17-Sep-23	14 (66-72)	9 (65-70)	7 (67-73)	5 (65-74)	7 (67-73)	20 (69-75)	7 (73-81)	6 (71-75)	12 (66-71)	87 (65-81)
18-Sep-23	4 (67-74)	4 (68-71)	3 (67-78)	12 (67-79)	12 (71-79)	6 (76-80)	4 (78-81)	12 (68-73)	14 (69-78)	71 (67-81)
19-Sep-23	9 (65-73)	4 (66-69)	6 (65-73)	11 (67-77)	16 (69-73)	5 (76-80)	3 (79-83)	13 (67-74)	8 (69-79)	75 (65-83)
20-Sep-23	8 (66-72)	4 (66-70)	9 (66-79)	10 (67-80)	14 (67-77)	4 (76-79)	2 (76-78)	15 (69-75)	12 (66-74)	78 (66-80)
21-Sep-23	5 (65-72)	9 (65-72)	9 (65-79)	12 (68-76)	5 (73-83)	3 (77-91)	2 (78-79)	16 (71-76)	13 (65-75)	74 (65-91)
22-Sep-23	11 (68-74)	7 (65-77)	6 (65-78)	15 (68-78)	19 (69-74)	8 (75-78)	5 (76-78)	n/a[1]	n/a[1]	71 (65-78)

Note 1: This period was outside of the period of unattended noise monitoring.

Figure 17: L02 maximum noise level event distribution of monitoring period



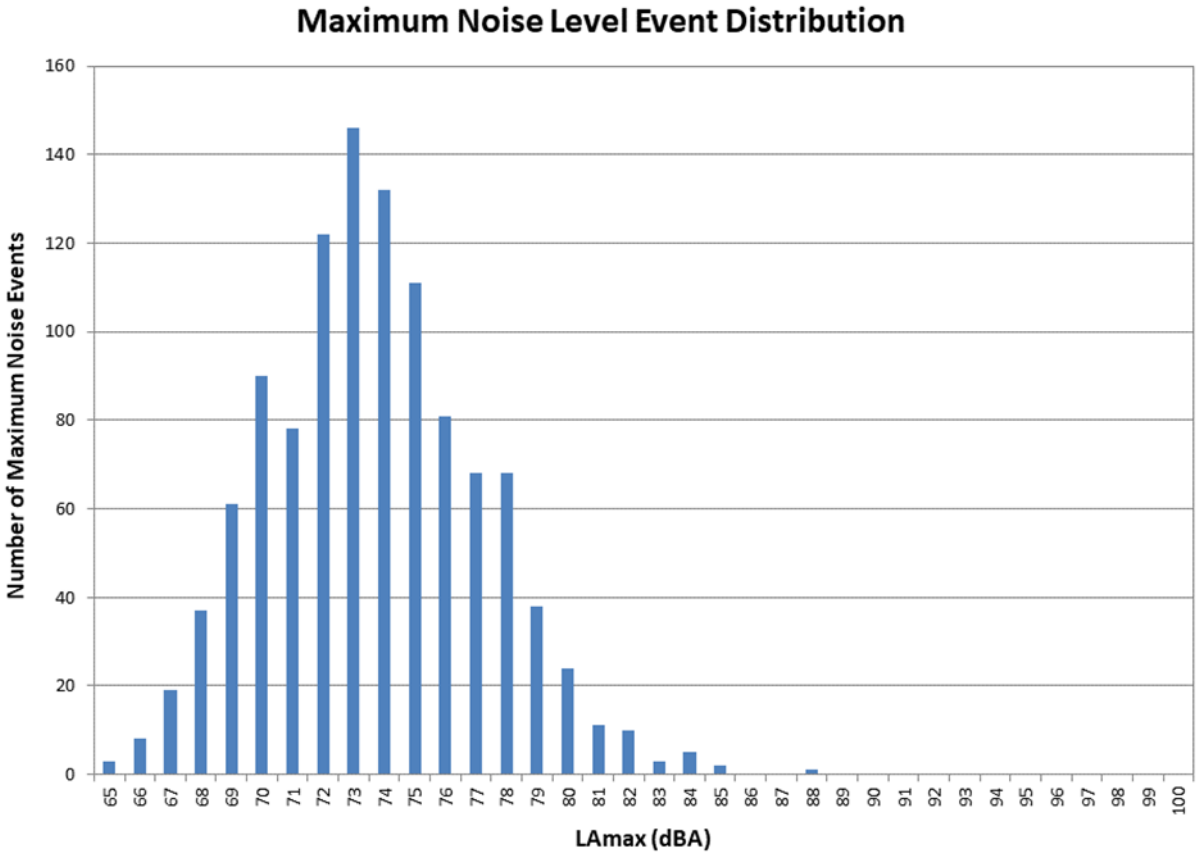
L08 – 97 Southee Road

Table 8: L08 maximum noise level events

Monitoring Date	Number of Maximum Noise Events per Hour (LAmax Noise Levels, dBA)									
	00:00 01:00	01:00 02:00	02:00 03:00	03:00 04:00	04:00 05:00	05:00 06:00	06:00 07:00	22:00 23:00	23:00 00:00	Total/ (Range)
11-Sep-23	n/a1	n/a1	n/a1	n/a1	n/a1	n/a1	n/a1	17 (69-78)	10 (68-78)	27 (68-78)
12-Sep-23	7 (66-75)	5 (67-77)	10 (66-75)	13 (67-77)	22 (72-82)	8 (77-83)	3 (79-80)	22 (71-79)	13 (70-76)	103 (66-83)
13-Sep-23	1 (78)	3 (73-75)	6 (70-77)	9 (70-76)	21 (73-78)	10 (78-83)	3 (80-83)	24 (69-76)	12 (66-75)	89 (66-83)
14-Sep-23	5 (65-76)	1 (70)	10 (70-79)	9 (68-75)	16 (72-79)	9 (78-81)	3 (79-80)	16 (74-78)	15 (69-78)	84 (65-81)
15-Sep-23	14 (68-75)	4 (70-81)	6 (71-77)	7 (65-78)	23 (72-80)	8 (77-80)	6 (79-84)	19 (70-75)	2 (73)	89 (65-84)
16-Sep-23	14 (67-77)	6 (67-73)	7 (65-77)	8 (67-77)	15 (68-76)	18 (73-79)	13 (77-82)	16 (72-76)	23 (69-78)	120 (65-82)
17-Sep-23	18 (69-76)	11 (66-74)	8 (67-77)	7 (68-75)	9 (69-78)	15 (71-80)	17 (74-81)	15 (70-78)	14 (68-78)	114 (66-81)
18-Sep-23	3 (72-76)	8 (66-80)	6 (68-77)	13 (69-82)	23 (73-80)	8 (77-82)	-	16 (68-76)	13 (68-80)	90 (66-82)
19-Sep-23	10 (67-78)	4 (70-78)	6 (67-77)	12 (69-80)	21 (73-79)	6 (77-82)	3 (81-84)	20 (69-76)	15 (67-79)	97 (67-84)
20-Sep-23	7 (69-73)	4 (70-76)	12 (67-77)	9 (69-78)	24 (70-80)	12 (77-80)	2 (80)	26 (69-76)	14 (66-80)	110 (66-80)
21-Sep-23	6 (68-74)	8 (68-74)	10 (68-85)	13 (69-79)	17 (74-88)	9 (77-85)	3 (79-82)	27 (73-78)	12 (69-78)	105 (68-88)
22-Sep-23	13 (68-75)	8 (68-82)	7 (67-78)	14 (72-84)	29 (72-78)	15 (78-84)	4 (79-81)	n/a1	n/a1	90 (67-84)

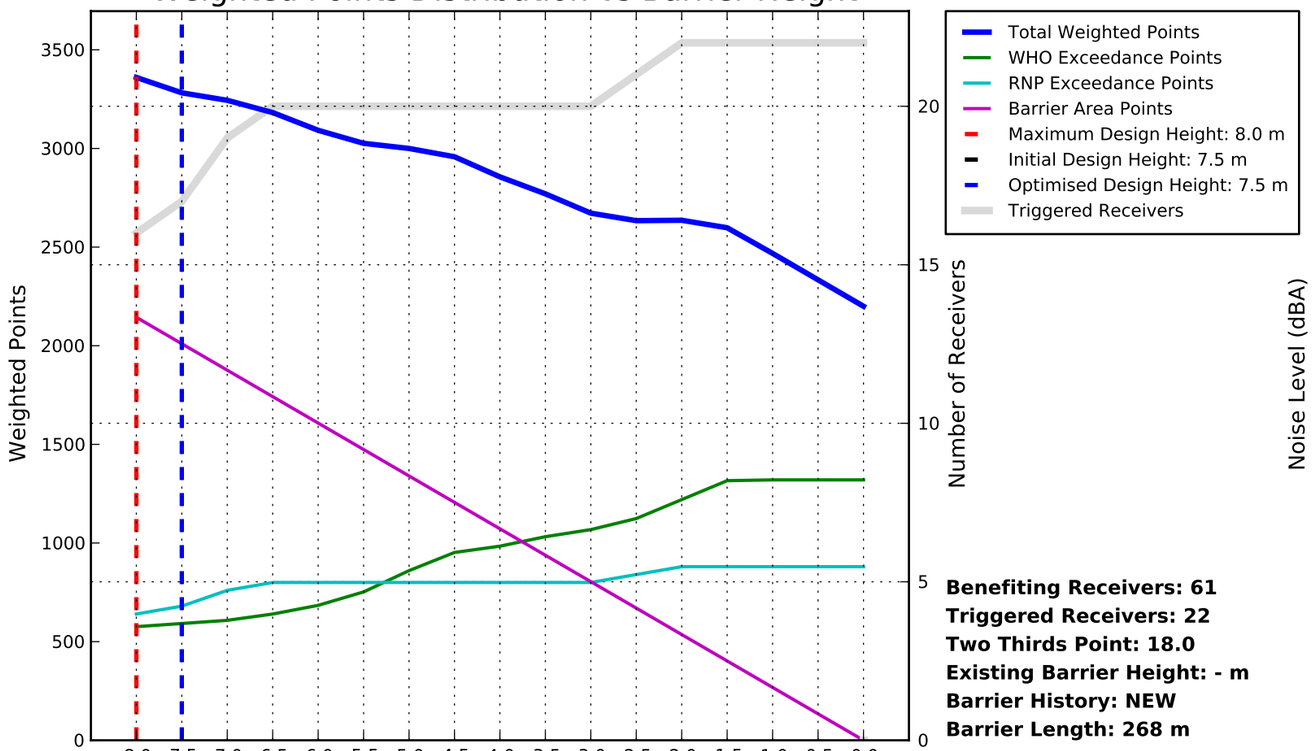
Note 1: This period was outside of the period of unattended noise monitoring.

Figure 18: L02 maximum noise level event distribution of monitoring period



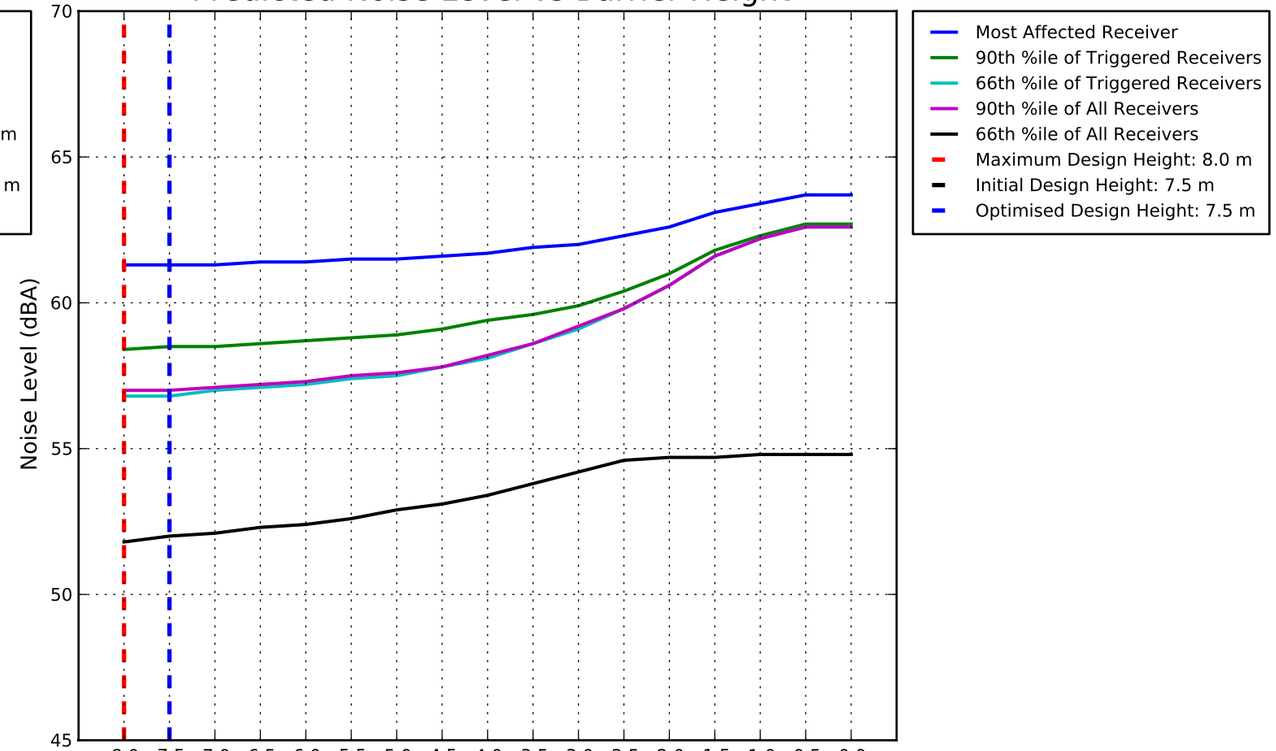
Noise Barrier Optimisation: NW01

Weighted Points Distribution vs Barrier Height

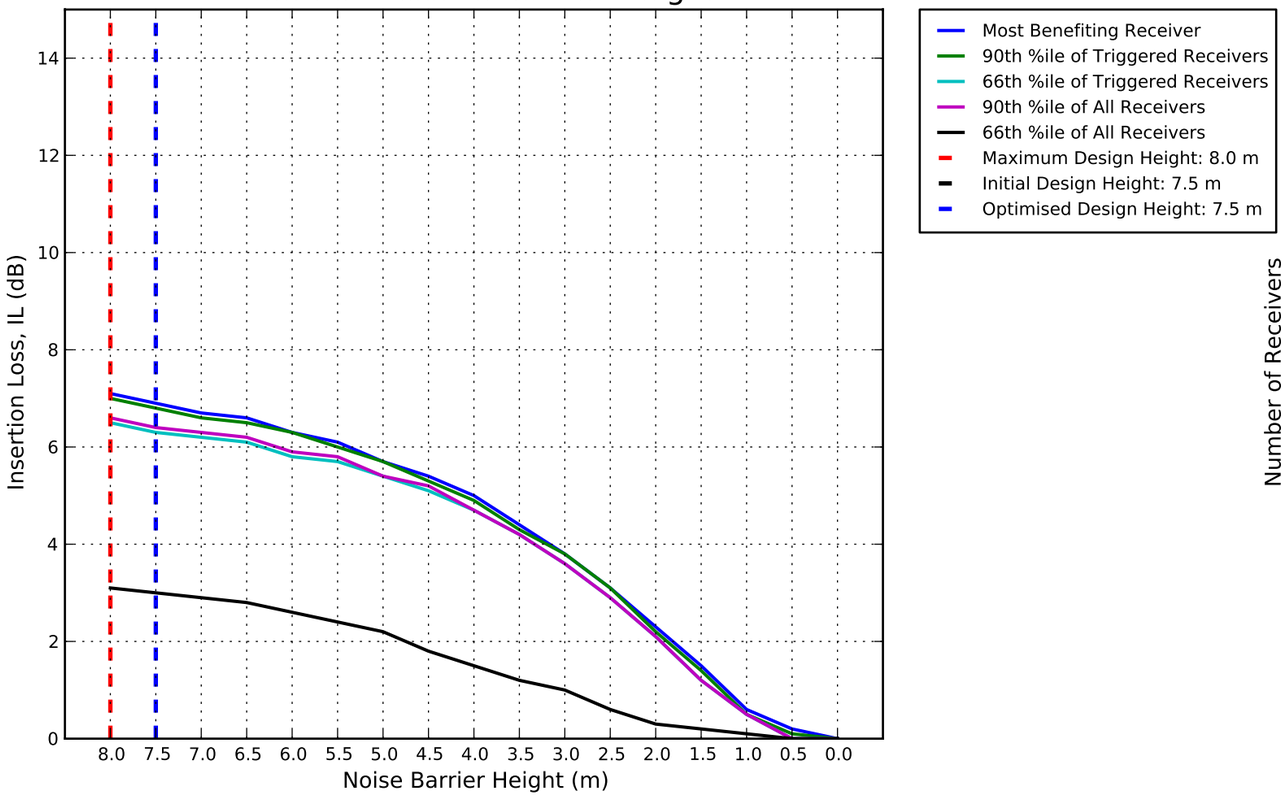


Benefiting Receivers: 61
Triggered Receivers: 22
Two Thirds Point: 18.0
Existing Barrier Height: - m
Barrier History: NEW
Barrier Length: 268 m

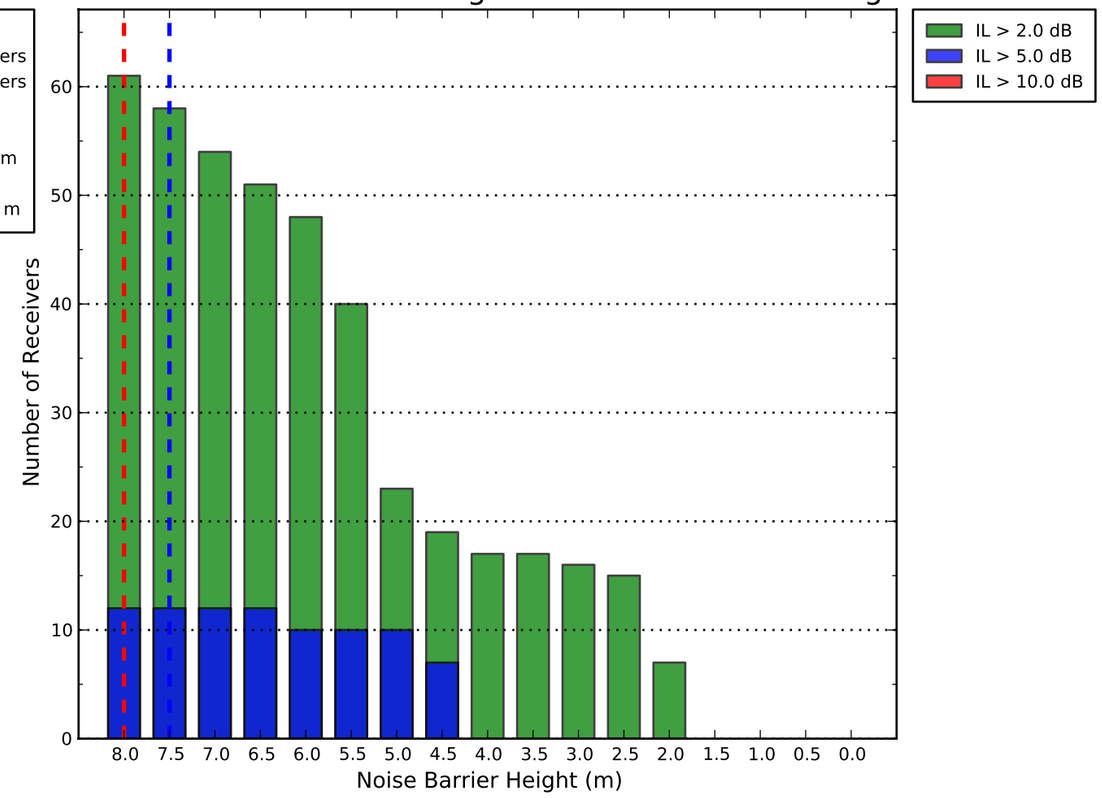
Predicted Noise Level vs Barrier Height



Insertion Loss vs Barrier Height

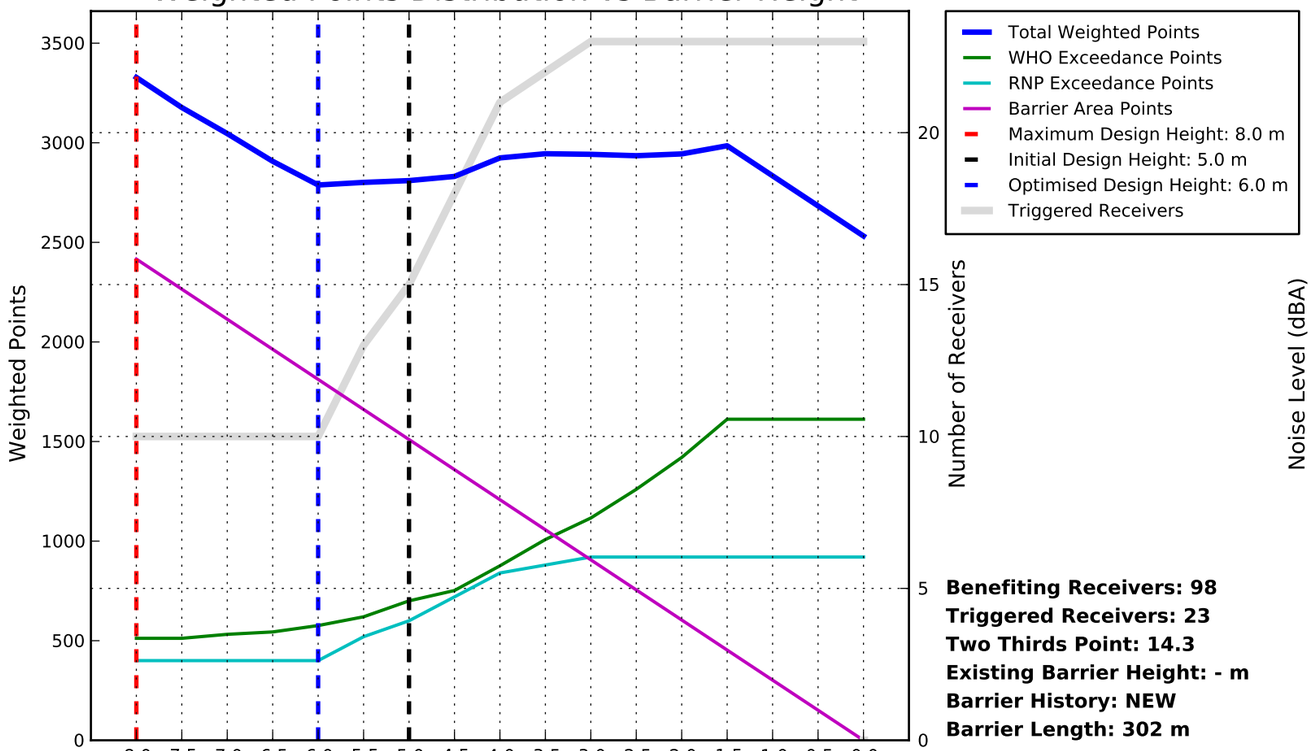


Insertion Loss of Benefiting Receivers vs Barrier Height



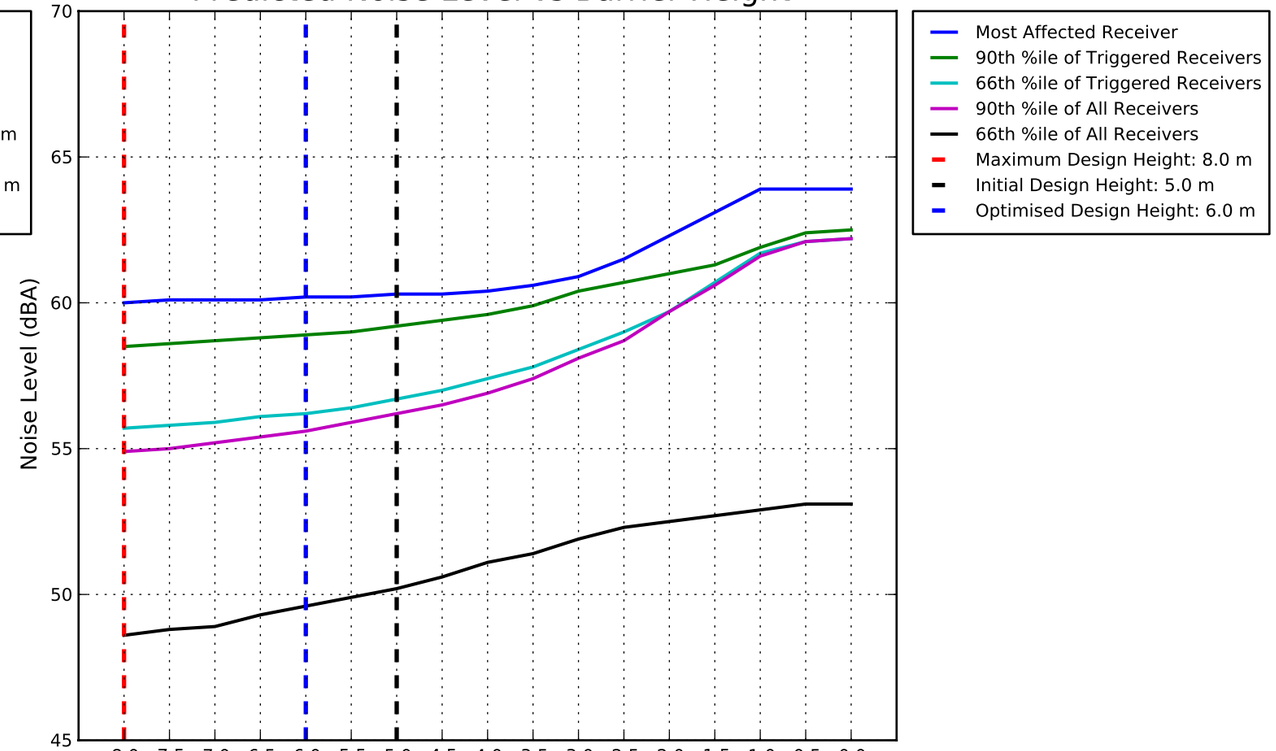
Noise Barrier Optimisation: NW02

Weighted Points Distribution vs Barrier Height

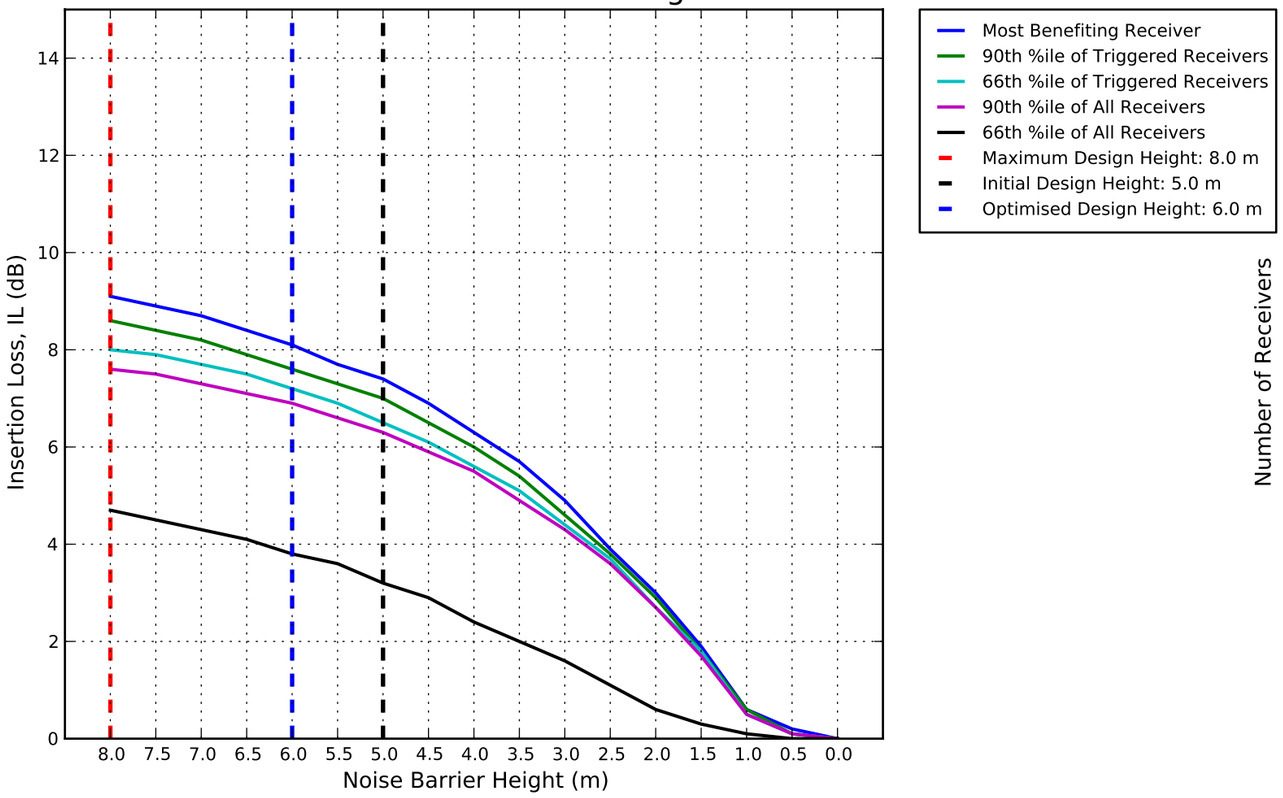


Benefiting Receivers: 98
Triggered Receivers: 23
Two Thirds Point: 14.3
Existing Barrier Height: - m
Barrier History: NEW
Barrier Length: 302 m

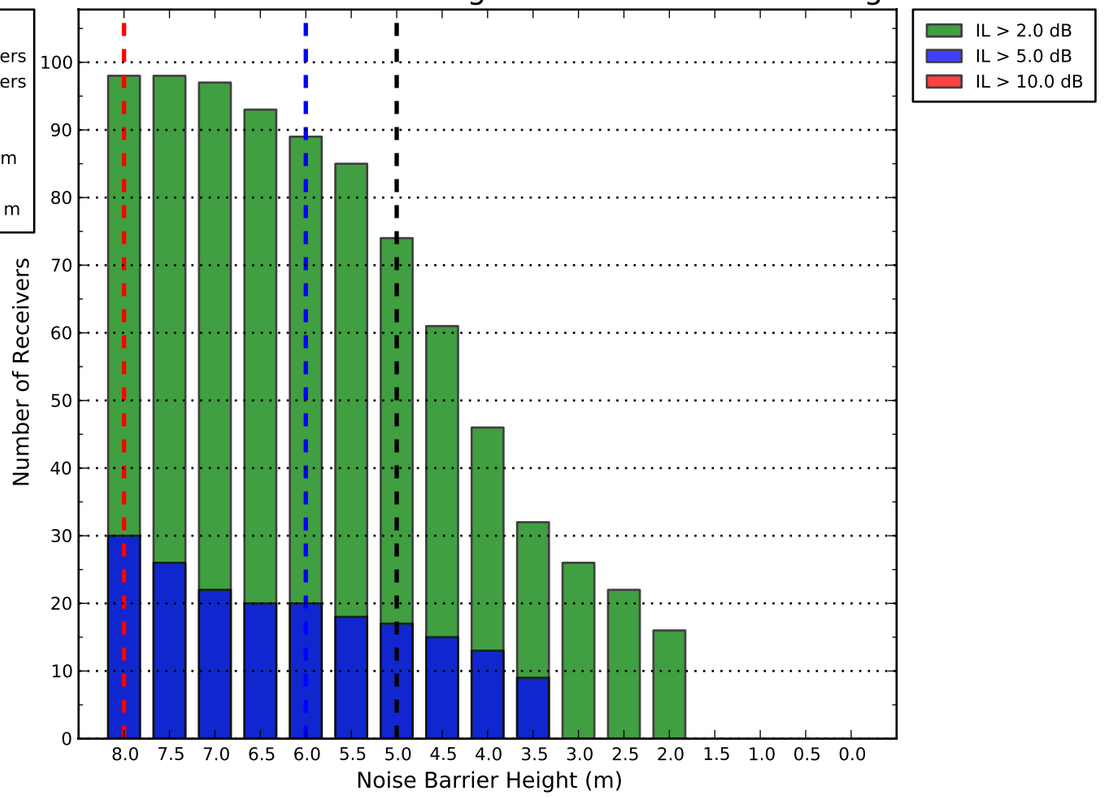
Predicted Noise Level vs Barrier Height



Insertion Loss vs Barrier Height

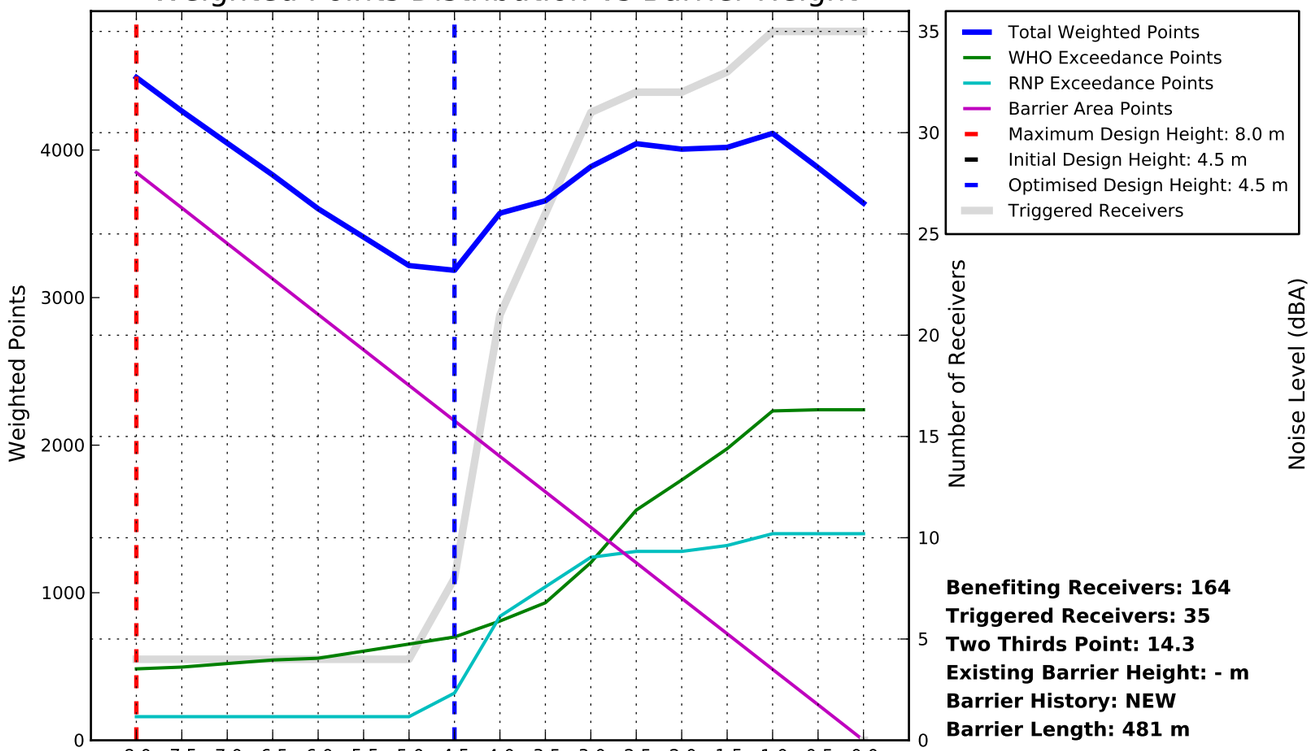


Insertion Loss of Benefiting Receivers vs Barrier Height



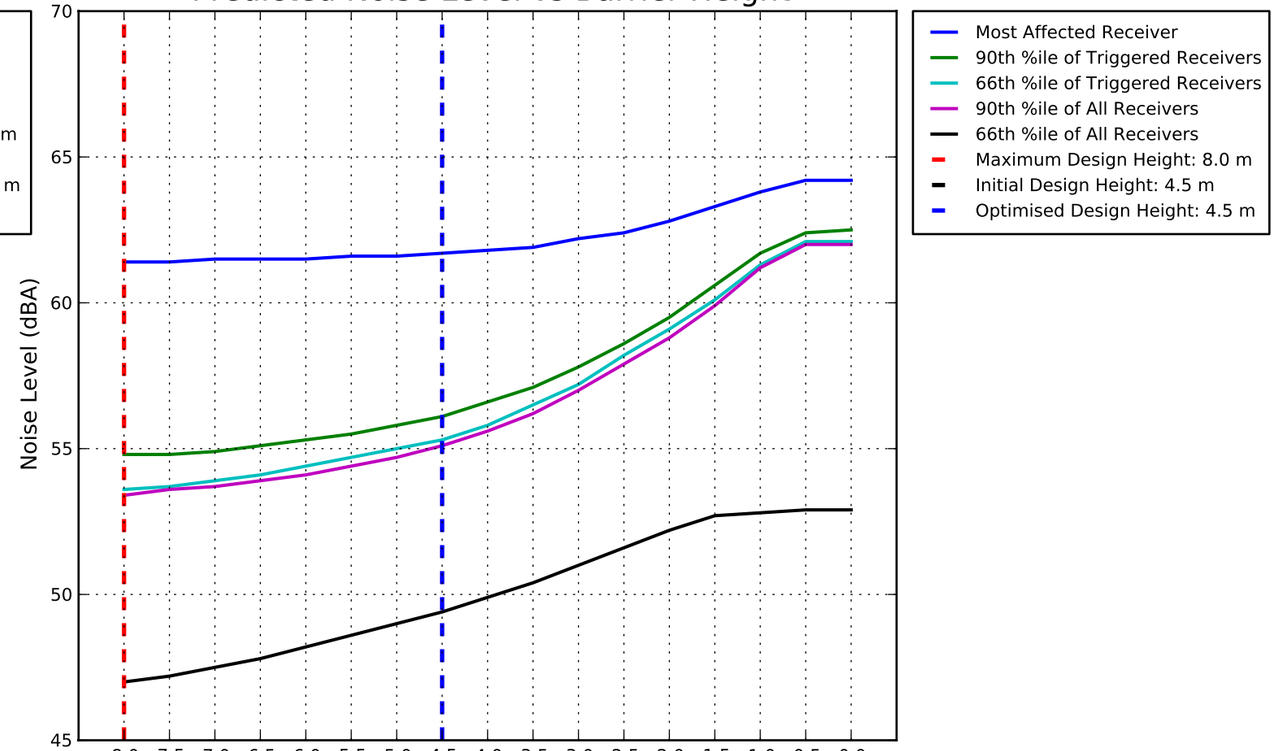
Noise Barrier Optimisation: NW03

Weighted Points Distribution vs Barrier Height

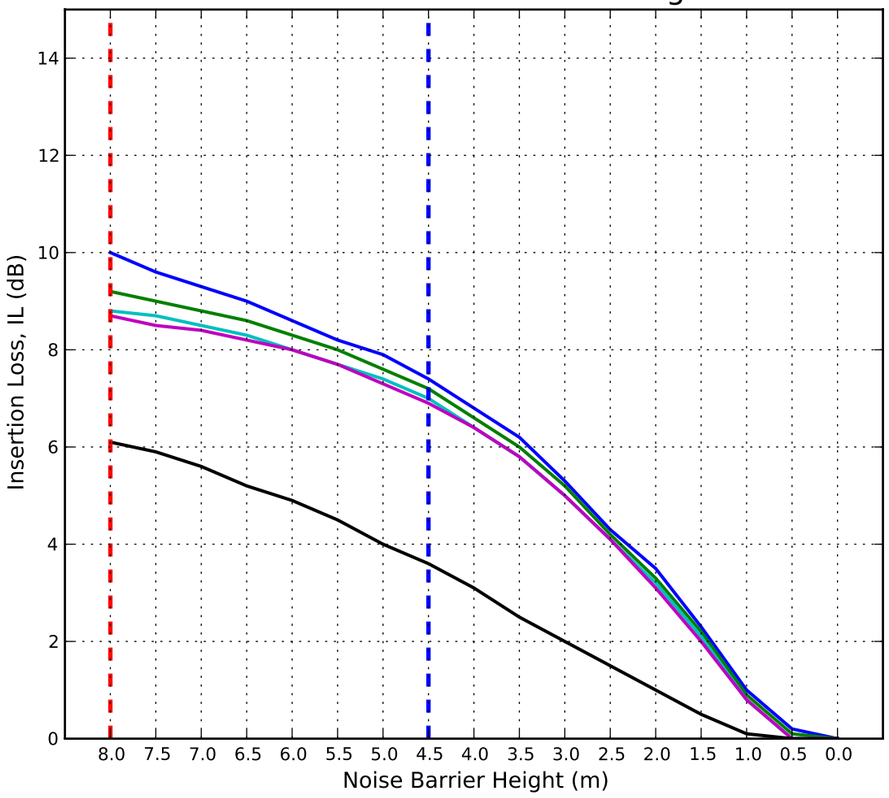


Benefiting Receivers: 164
Triggered Receivers: 35
Two Thirds Point: 14.3
Existing Barrier Height: - m
Barrier History: NEW
Barrier Length: 481 m

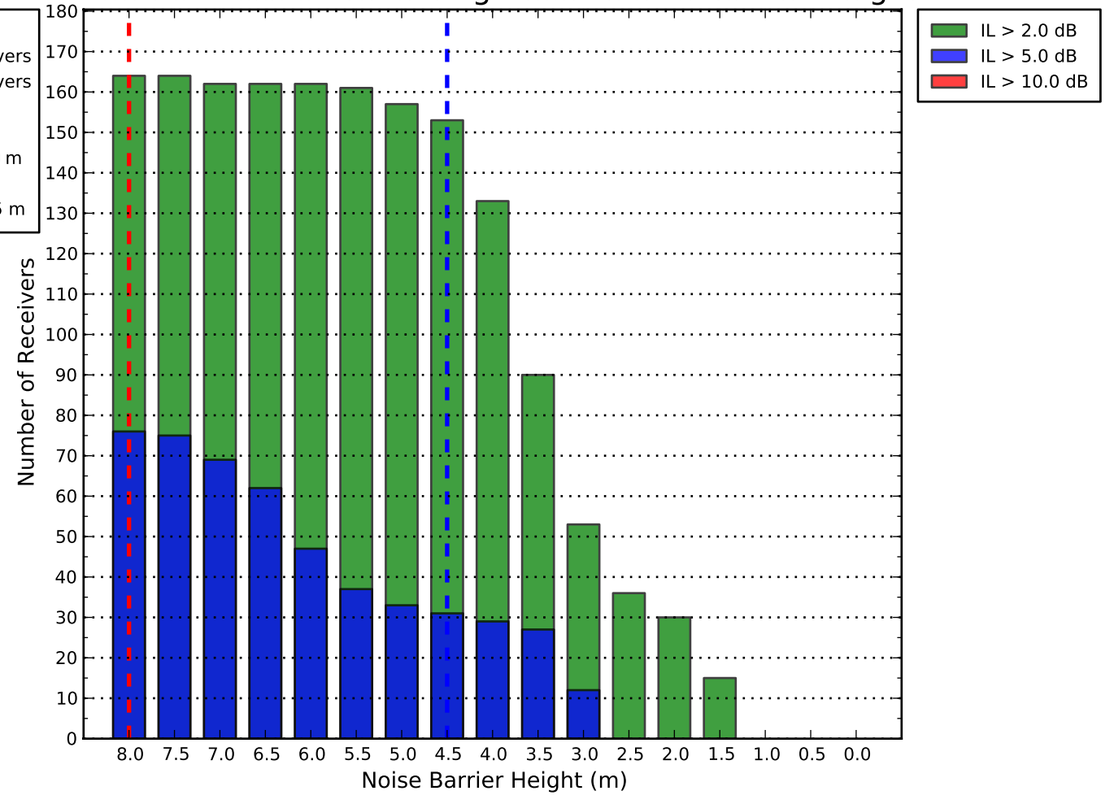
Predicted Noise Level vs Barrier Height



Insertion Loss vs Barrier Height



Insertion Loss of Benefiting Receivers vs Barrier Height



Stage 2A Receiver Assessment Table

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1] Year of Opening (Stage 2A)						Triggers						Consider Further Additional Noise Mitigation
										No Build		Build		Project Road Contribution		>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA01.RES.0001	NCA01	1	288109	6282920	Residential	1 Crooked Lane North Richmond	60	55	P	62	56	61	55	0	0	-	-	-	-	-	-	-
NCA01.RES.0001	NCA01	2	288109	6282920	Residential	1 Crooked Lane North Richmond	60	55	P	64	58	63	57	0	0	-	-	-	-	-	-	-
NCA01.RES.0002	NCA01	1	288171	6283000	Residential	47 Crooked Lane North Richmond	60	55	P	57	51	56	50	0.1	0	-	-	-	-	-	-	-
NCA02.RES.0001	NCA02	1	288298	6282489	Residential	84 Bells Line Of Road North Richmond	60	55	P	53	47	53	47	0.2	0.2	-	-	-	-	-	-	-
NCA02.RES.0002	NCA02	1	288266	6282871	Residential	1 Douglas Street North Richmond	60	55	P	55	49	54	48	0.4	0.3	-	-	-	-	-	-	-
NCA02.RES.0003	NCA02	1	288292	6283035	Residential	31 Douglas Street North Richmond	60	55	P	58	52	58	52	0	0	-	-	-	-	-	-	-
NCA02.RES.0004	NCA02	1	288384	6282764	Residential	24 Douglas Street North Richmond	60	55	P	49	43	49	43	0.6	0.5	-	-	-	-	-	-	-
NCA03.OME.0051	NCA03	1	288311	6282075	Other (Medical)	4 Grose Vale Road North Richmond	45	-	H	73	70	72	70	0	0	-	-	-	-	-	-	-
NCA03.OME.0055	NCA03	1	288247	6282019	Other (Medical)	12 Grose Vale Road North Richmond	45	-	H	71	69	70	69	0	0	-	-	-	-	-	-	-
NCA03.RES.0001	NCA03	1	288248	6282130	Residential	12/63 Bells Line Of Road North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0001	NCA03	2	288235	6282138	Residential	12/63 Bells Line Of Road North Richmond	60	55	P	57	51	56	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0002	NCA03	1	288289	6282147	Residential	2/63 Bells Line Of Road North Richmond	60	55	P	71	65	71	65	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0003	NCA03	1	288271	6282164	Residential	14/63 Bells Line Of Road North Richmond	60	55	P	70	64	70	64	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0003	NCA03	2	288271	6282164	Residential	14/63 Bells Line Of Road North Richmond	60	55	P	71	65	71	65	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0004	NCA03	1	288252	6282135	Residential	13/63 Bells Line Of Road North Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0004	NCA03	2	288247	6282150	Residential	13/63 Bells Line Of Road North Richmond	60	55	P	60	54	60	54	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0005	NCA03	1	288267	6282139	Residential	10/63 Bells Line Of Road North Richmond	60	55	P	59	53	59	53	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0006	NCA03	1	288282	6282109	Residential	9/63 Bells Line Of Road North Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0007	NCA03	1	288297	6282104	Residential	4/63 Bells Line Of Road North Richmond	60	55	P	59	53	59	53	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0007	NCA03	2	288297	6282104	Residential	4/63 Bells Line Of Road North Richmond	60	55	P	61	55	61	55	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0008	NCA03	1	288271	6282089	Residential	6/63 Bells Line Of Road North Richmond	60	55	P	56	50	55	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0009	NCA03	1	288269	6282104	Residential	8/63 Bells Line Of Road North Richmond	60	55	P	53	47	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0010	NCA03	1	288309	6282125	Residential	3/63 Bells Line Of Road North Richmond	60	55	P	71	64	71	65	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0010	NCA03	2	288309	6282125	Residential	3/63 Bells Line Of Road North Richmond	60	55	P	71	65	71	65	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0011	NCA03	1	288253	6282167	Residential	77 Bells Line Of Road North Richmond	60	55	P	65	59	65	59	0	0	-	-	-	-	-	-	-
NCA03.RES.0012	NCA03	1	288188	6282174	Residential	79 Bells Line Of Road North Richmond	60	55	P	56	50	56	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0013	NCA03	1	288227	6282146	Residential	1/79 Bells Line Of Road North Richmond	60	55	P	53	47	52	47	0.1	0.1	-	-	-	-	-	-	-
NCA03.RES.0014	NCA03	1	288202	6282183	Residential	83 Bells Line Of Road North Richmond	60	55	P	59	53	59	53	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0015	NCA03	1	288145	6282292	Residential	97 Bells Line Of Road North Richmond	60	55	P	67	61	67	61	0	0	-	-	-	-	-	-	-
NCA03.RES.0016	NCA03	1	288116	6282302	Residential	97A Bells Line Of Road North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0017	NCA03	1	288125	6282274	Residential	97A Bells Line Of Road North Richmond	60	55	P	56	50	57	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0018	NCA03	1	288117	6282262	Residential	97A Bells Line Of Road North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0019	NCA03	1	288133	6282320	Residential	99 Bells Line Of Road North Richmond	60	55	P	71	64	71	65	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0020	NCA03	1	288104	6282309	Residential	101 Bells Line Of Road North Richmond	60	55	P	58	52	59	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0021	NCA03	1	288119	6282336	Residential	101A Bells Line Of Road North Richmond	60	55	P	71	64	71	64	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0022	NCA03	1	288090	6282297	Residential	101 Bells Line Of Road North Richmond	60	55	P	55	49	55	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0023	NCA03	1	288092	6282351	Residential	103 Bells Line Of Road North Richmond	60	55	P	64	57	64	58	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0024	NCA03	1	288075	6282361	Residential	7/105 Bells Line Of Road North Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0025	NCA03	1	288054	6282376	Residential	8/105 Bells Line Of Road North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0026	NCA03	1	288080	6282375	Residential	105 Bells Line Of Road North Richmond	60	55	P	69	63	69	63	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0027	NCA03	1	288028	6282382	Residential	7/107 Bells Line Of Road North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0028	NCA03	1	288017	6282370	Residential	2/107 Bells Line Of Road North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0029	NCA03	1	288048	6282410	Residential	1/107 Bells Line Of Road North Richmond	60	55	P	70	64	70	64	0	0	-	-	-	-	-	-	-
NCA03.RES.0030	NCA03	1	288046	6282387	Residential	3/107 Bells Line Of Road North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0031	NCA03	1	288061	6282396	Residential	1/107 Bells Line Of Road North Richmond	60	55	P	69	63	69	63	0	0	-	-	-	-	-	-	-
NCA03.RES.0032	NCA03	1	288041	6282418	Residential	107A Bells Line Of Road North Richmond	60	55	P	69	63	69	63	0	0	-	-	-	-	-	-	-
NCA03.RES.0033	NCA03	1	288028	6282377	Residential	6/107 Bells Line Of Road North Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0034	NCA03	1	288016	6282411	Residential	109 Bells Line Of Road North Richmond	60	55	P	62	56	62	56	0	0	-	-	-	-	-	-	-
NCA03.RES.0035	NCA03	1	287997	6282415	Residential	109A Bells Line Of Road North Richmond	60	55	P	63	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0035	NCA03	2	287997	6282415	Residential	109A Bells Line Of Road North Richmond	60	55	P	63	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0036	NCA03	1	287978	6282424	Residential	109B Bells Line Of Road North Richmond	60	55	P	62	56	62	56	0	0	-	-	-	-	-	-	-
NCA03.RES.0036	NCA03	2	287978	6282424	Residential	109B Bells Line Of Road North Richmond	60	55	P	63	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0037	NCA03	1	288092	6282207	Residential	19 Charles Street North Richmond	60	55	P	53	47	53	47	0.1	0.1	-	-	-	-	-	-	-
NCA03.RES.0038	NCA03	1	288102	6282252	Residential	19 Charles Street North Richmond	60	55	P	53	47	52	46	0.1	0.1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA03.RES.0039	NCA03	1	288114	6282229	Residential	19 Charles Street North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0040	NCA03	1	288099	6282215	Residential	19 Charles Street North Richmond	60	55	P	53	47	52	47	0.1	0.1	-	-	-	-	-	-	-
NCA03.RES.0041	NCA03	1	288132	6282239	Residential	23 Charles Street North Richmond	60	55	P	57	51	57	51	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0042	NCA03	1	288144	6282250	Residential	23 Charles Street North Richmond	60	55	P	59	53	59	53	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0043	NCA03	1	288161	6282275	Residential	25 Charles Street North Richmond	60	55	P	68	61	68	61	0	0	-	-	-	-	-	-	-
NCA03.RES.0044	NCA03	1	288118	6282177	Residential	8 Charles Street North Richmond	60	55	P	53	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0045	NCA03	1	288139	6282217	Residential	10 Charles Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0045	NCA03	2	288149	6282212	Residential	10 Charles Street North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0046	NCA03	1	288131	6282185	Residential	10 Charles Street North Richmond	60	55	P	53	47	52	47	0.1	0.1	-	-	-	-	-	-	-
NCA03.RES.0046	NCA03	2	288120	6282199	Residential	10 Charles Street North Richmond	60	55	P	55	48	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0047	NCA03	1	288142	6282192	Residential	10 Charles Street North Richmond	60	55	P	54	48	53	47	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0047	NCA03	2	288130	6282209	Residential	10 Charles Street North Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0048	NCA03	1	288155	6282233	Residential	16 Charles Street North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0049	NCA03	1	288173	6282238	Residential	16 Charles Street North Richmond	60	55	P	63	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0050	NCA03	1	288147	6282226	Residential	16 Charles Street North Richmond	60	55	P	56	50	56	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0052	NCA03	1	288294	6282061	Residential	6 Grose Vale Road North Richmond	60	55	P	71	65	70	65	0	0	-	-	-	-	-	-	-
NCA03.RES.0053	NCA03	1	288276	6282048	Residential	8-10 Grose Vale Road North Richmond	60	55	P	69	64	69	64	0	0	-	-	-	-	-	-	-
NCA03.RES.0054	NCA03	1	288260	6282033	Residential	8-10 Grose Vale Road North Richmond	60	55	P	69	63	68	63	0	0	-	-	-	-	-	-	-
NCA03.RES.0056	NCA03	1	288003	6282396	Residential	7/44-46 William St North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0057	NCA03	1	287966	6282399	Residential	1/48 William St North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0057	NCA03	2	287973	6282408	Residential	1/48 William St North Richmond	60	55	P	59	53	59	53	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0058	NCA03	1	287837	6282545	Residential	2/70 William St North Richmond	60	55	P	60	54	60	54	0	0	-	-	-	-	-	-	-
NCA03.RES.0059	NCA03	1	288217	6282051	Residential	2 William Street North Richmond	60	55	P	55	50	55	49	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0060	NCA03	1	288215	6282091	Residential	4 William Street North Richmond	60	55	P	53	48	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0061	NCA03	1	288186	6282093	Residential	4 William Street North Richmond	60	55	P	52	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0062	NCA03	1	288194	6282069	Residential	4 William Street North Richmond	60	55	P	54	48	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0063	NCA03	1	288175	6282169	Residential	10 William Street North Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0064	NCA03	1	288172	6282158	Residential	10 William Street North Richmond	60	55	P	52	46	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0065	NCA03	1	288184	6282140	Residential	10 William Street North Richmond	60	55	P	52	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0066	NCA03	1	288156	6282161	Residential	14 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0067	NCA03	1	288132	6282169	Residential	16 William Street North Richmond	60	55	P	52	46	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0068	NCA03	1	288090	6282241	Residential	24 William Street North Richmond	60	55	P	52	46	52	46	0.1	0.1	-	-	-	-	-	-	-
NCA03.RES.0069	NCA03	1	288072	6282257	Residential	24 William Street North Richmond	60	55	P	52	46	52	46	0.1	0.1	-	-	-	-	-	-	-
NCA03.RES.0070	NCA03	1	288095	6282270	Residential	26 William Street North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0071	NCA03	1	288064	6282273	Residential	26 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0072	NCA03	1	288056	6282289	Residential	26 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0073	NCA03	1	288076	6282291	Residential	26 William Street North Richmond	60	55	P	52	46	52	46	0.1	0.1	-	-	-	-	-	-	-
NCA03.RES.0074	NCA03	1	288053	6282267	Residential	28 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0075	NCA03	1	288043	6282257	Residential	30 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0076	NCA03	1	288029	6282278	Residential	32 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0077	NCA03	1	288021	6282299	Residential	34 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0078	NCA03	1	288027	6282316	Residential	36 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0079	NCA03	1	288044	6282342	Residential	36 William Street North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0079	NCA03	2	288030	6282358	Residential	36 William Street North Richmond	60	55	P	59	53	59	53	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0080	NCA03	1	288043	6282307	Residential	36 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0081	NCA03	1	288051	6282335	Residential	36 William Street North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0081	NCA03	2	288051	6282335	Residential	36 William Street North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0082	NCA03	1	288013	6282336	Residential	38 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0083	NCA03	1	287990	6282336	Residential	40 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0084	NCA03	1	287983	6282350	Residential	42 William Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0085	NCA03	1	287959	6282356	Residential	42 William Street North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0086	NCA03	1	287996	6282381	Residential	44 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0087	NCA03	1	287977	6282395	Residential	44 William Street North Richmond	60	55	P	50	44	50	44	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0088	NCA03	1	287962	6282395	Residential	48 William Street North Richmond	60	55	P	56	50	56	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0089	NCA03	1	287941	6282379	Residential	48 William Street North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0090	NCA03	1	287955	6282363	Residential	48 William Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA03.RES.0091	NCA03	1	287950	6282405	Residential	50 William Street North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0092	NCA03	1	287938	6282416	Residential	6/52 William Street North Richmond	60	55	P	56	50	56	50	0.1	0	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA03.RES.0093	NCA03	1	287923	6282458	Residential	52 William Street North Richmond	60	55	P	62	56	62	56	0	0	-	-	-	-	-	-	-
NCA03.RES.0094	NCA03	1	287900	6282444	Residential	12/52 William Street North Richmond	60	55	P	56	50	56	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0095	NCA03	1	287938	6282444	Residential	52 William Street North Richmond	60	55	P	62	56	62	56	0	0	-	-	-	-	-	-	-
NCA03.RES.0096	NCA03	1	287916	6282404	Residential	52 William Street North Richmond	60	55	P	56	49	56	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0097	NCA03	1	287899	6282421	Residential	52 William Street North Richmond	60	55	P	56	50	56	50	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0098	NCA03	1	287892	6282458	Residential	58 William Street North Richmond	60	55	P	58	52	58	52	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0099	NCA03	1	287860	6282460	Residential	60 William Street North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0099	NCA03	2	287860	6282460	Residential	60 William Street North Richmond	60	55	P	57	51	57	51	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0100	NCA03	1	287867	6282459	Residential	60 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0101	NCA03	1	287865	6282477	Residential	62 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0102	NCA03	1	287844	6282493	Residential	64 William Street North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0103	NCA03	1	287894	6282505	Residential	8/66 William Street North Richmond	60	55	P	62	56	62	56	0	0	-	-	-	-	-	-	-
NCA03.RES.0103	NCA03	2	287894	6282505	Residential	8/66 William Street North Richmond	60	55	P	63	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0104	NCA03	1	287878	6282538	Residential	4/66 William Street North Richmond	60	55	P	64	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0104	NCA03	2	287878	6282538	Residential	4/66 William Street North Richmond	60	55	P	64	58	64	58	0	0	-	-	-	-	-	-	-
NCA03.RES.0105	NCA03	1	287886	6282525	Residential	6/66 William Street North Richmond	60	55	P	63	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0105	NCA03	2	287886	6282525	Residential	6/66 William Street North Richmond	60	55	P	64	58	64	58	0	0	-	-	-	-	-	-	-
NCA03.RES.0106	NCA03	1	287862	6282546	Residential	66 William Street North Richmond	60	55	P	62	56	62	56	0	0	-	-	-	-	-	-	-
NCA03.RES.0106	NCA03	2	287862	6282546	Residential	66 William Street North Richmond	60	55	P	63	57	63	57	0	0	-	-	-	-	-	-	-
NCA03.RES.0107	NCA03	1	287901	6282490	Residential	11/66 William Street North Richmond	60	55	P	62	56	62	56	0	0	-	-	-	-	-	-	-
NCA03.RES.0108	NCA03	1	287829	6282521	Residential	68 William Street North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0108	NCA03	2	287829	6282521	Residential	68 William Street North Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA03.RES.0109	NCA03	1	287839	6282531	Residential	68 William Street North Richmond	60	55	P	57	51	57	51	0	0	-	-	-	-	-	-	-
NCA03.RES.0109	NCA03	2	287835	6282530	Residential	68 William Street North Richmond	60	55	P	58	52	58	52	0	0	-	-	-	-	-	-	-
NCA03.RES.0110	NCA03	1	287811	6282536	Residential	70 William Street North Richmond	60	55	P	57	51	57	51	0	0	-	-	-	-	-	-	-
NCA03.RES.0110	NCA03	2	287829	6282539	Residential	70 William Street North Richmond	60	55	P	60	54	60	54	0.1	0	-	-	-	-	-	-	-
NCA04.OCC.0091	NCA04	1	288036	6281934	Other (Childcare)	7 Elizabeth Street North Richmond	45	-	H	51	49	51	49	0.4	0.4	-	-	-	-	-	-	-
NCA04.OCC.0091	NCA04	2	288041	6281916	Other (Childcare)	7 Elizabeth Street North Richmond	45	-	H	55	53	55	52	0.2	0.2	-	-	-	-	-	-	-
NCA04.OCC.0131	NCA04	1	287922	6282178	Other (Childcare)	22 Elizabeth Street North Richmond	45	-	H	50	47	50	47	0.2	0.2	-	-	-	-	-	-	-
NCA04.OED.0160	NCA04	1	288109	6281970	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	54	52	54	51	0.3	0.2	-	-	-	-	-	-	-
NCA04.OED.0161	NCA04	1	288162	6282008	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	53	51	53	50	0.2	0.2	-	-	-	-	-	-	-
NCA04.OED.0162	NCA04	1	288148	6282029	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	53	51	53	50	0.3	0.2	-	-	-	-	-	-	-
NCA04.OED.0163	NCA04	1	288102	6282000	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	53	50	53	50	0.3	0.3	-	-	-	-	-	-	-
NCA04.OED.0164	NCA04	1	288182	6281972	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	67	65	67	64	0.1	0	-	-	-	-	-	-	-
NCA04.OED.0164	NCA04	2	288182	6281972	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	69	66	68	66	0.1	0	-	-	-	-	-	-	-
NCA04.OED.0165	NCA04	1	288143	6281937	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	67	65	67	64	0.1	0	-	-	-	-	-	-	-
NCA04.OED.0166	NCA04	1	288204	6282002	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	64	62	64	61	0.1	0	-	-	-	-	-	-	-
NCA04.OPB.0132	NCA04	1	287990	6282249	Other (Public Building)	22 Elizabeth Street North Richmond	50	-	P	51	44	50	44	0.1	0.1	-	-	-	-	-	-	-
NCA04.OPB.0133	NCA04	1	287983	6282214	Other (Public Building)	22 Elizabeth Street North Richmond	50	-	P	49	44	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA04.OPB.0134	NCA04	1	287899	6282219	Other (Public Building)	22 Elizabeth Street North Richmond	50	-	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.OPW.0100	NCA04	1	287925	6282105	Other (Place of Worship)	27 Elizabeth Street North Richmond	50	50	H	51	48	50	48	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0001	NCA04	1	287447	6282116	Residential	1 Bradley Road North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0002	NCA04	1	287475	6282141	Residential	3 Bradley Road North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0002	NCA04	2	287471	6282152	Residential	3 Bradley Road North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0003	NCA04	1	287489	6282160	Residential	5 Bradley Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0004	NCA04	1	287554	6282212	Residential	9 Bradley Road North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0005	NCA04	1	287569	6282227	Residential	11 Bradley Road North Richmond	59	53	P	47	41	47	41	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0005	NCA04	2	287569	6282227	Residential	11 Bradley Road North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0006	NCA04	1	287589	6282243	Residential	13 Bradley Road North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0007	NCA04	1	287603	6282253	Residential	15 Bradley Road North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0008	NCA04	1	287608	6282281	Residential	17 Bradley Road North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0009	NCA04	1	287605	6282313	Residential	19 Bradley Road North Richmond	59	53	P	47	41	47	41	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0010	NCA04	1	287606	6282337	Residential	21B Bradley Road North Richmond	58	52	P	46	40	46	40	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0011	NCA04	1	287628	6282323	Residential	21A Bradley Road North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0012	NCA04	1	287628	6282333	Residential	21C Bradley Road North Richmond	57	51	P	45	39	45	39	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0012	NCA04	2	287630	6282344	Residential	21C Bradley Road North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0013	NCA04	1	287656	6282313	Residential	23 Bradley Road North Richmond	60	55	P	49	43	49	43	0.1	0.1	-	-	-	-	-	-	-
NCA04.RES.0014	NCA04	1	287657	6282292	Residential	25 Bradley Road North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA04.RES.0015	NCA04	1	287705	6282246	Residential	27A Bradley Road North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0016	NCA04	1	287692	6282267	Residential	27A Bradley Road North Richmond	60	54	P	48	42	47	41	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0017	NCA04	1	287681	6282248	Residential	29A Bradley Road North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0018	NCA04	1	287649	6282266	Residential	29 Bradley Road North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0019	NCA04	1	287656	6282234	Residential	31 Bradley Road North Richmond	60	54	P	48	42	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0020	NCA04	1	287483	6282082	Residential	2 Bradley Road North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0021	NCA04	1	287479	6282100	Residential	4 Bradley Road North Richmond	58	52	P	46	40	45	39	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0022	NCA04	1	287499	6282117	Residential	6 Bradley Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0023	NCA04	1	287508	6282125	Residential	8 Bradley Road North Richmond	58	52	P	46	40	45	39	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0024	NCA04	1	287524	6282134	Residential	10 Bradley Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0025	NCA04	1	287543	6282148	Residential	12 Bradley Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0026	NCA04	1	287556	6282161	Residential	14 Bradley Road North Richmond	58	52	P	46	40	46	40	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0027	NCA04	1	287565	6282168	Residential	16 Bradley Road North Richmond	58	51	P	46	39	45	39	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0027	NCA04	2	287581	6282166	Residential	16 Bradley Road North Richmond	60	55	P	49	43	49	43	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0028	NCA04	1	287585	6282182	Residential	18 Bradley Road North Richmond	59	53	P	47	41	47	41	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0029	NCA04	1	287607	6282183	Residential	20 Bradley Road North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0030	NCA04	1	287609	6282207	Residential	22 Bradley Road North Richmond	60	53	P	48	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0031	NCA04	1	287639	6282215	Residential	24 Bradley Road North Richmond	60	54	P	48	42	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0032	NCA04	1	287683	6282230	Residential	26 Bradley Road North Richmond	60	55	P	48	43	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0033	NCA04	1	287523	6282072	Residential	1 Campbell Street North Richmond	56	50	P	44	38	43	37	0.5	0.5	-	-	-	-	-	-	-
NCA04.RES.0034	NCA04	1	287519	6282088	Residential	1 Campbell Street North Richmond	57	51	P	45	39	44	39	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0035	NCA04	1	287520	6282076	Residential	1 Campbell Street North Richmond	56	50	P	44	38	43	37	0.5	0.5	-	-	-	-	-	-	-
NCA04.RES.0036	NCA04	1	287538	6282063	Residential	1 Campbell Street North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0037	NCA04	1	287523	6282049	Residential	1A Campbell Street North Richmond	58	53	P	46	41	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0038	NCA04	1	287554	6282074	Residential	3 Campbell Street North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0039	NCA04	1	287564	6282106	Residential	5 Campbell Street North Richmond	58	52	P	46	40	45	40	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0040	NCA04	1	287575	6282091	Residential	5 Campbell Street North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0041	NCA04	1	287588	6282100	Residential	7 Campbell Street North Richmond	58	52	P	46	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0042	NCA04	1	287602	6282116	Residential	9 Campbell Street North Richmond	58	53	P	46	41	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0043	NCA04	1	287616	6282126	Residential	11 Campbell Street North Richmond	59	53	P	47	41	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0044	NCA04	1	287624	6282132	Residential	13 Campbell Street North Richmond	59	53	P	47	41	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0045	NCA04	1	287641	6282146	Residential	15 Campbell Street North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0046	NCA04	1	287644	6282170	Residential	17 Campbell Street North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0047	NCA04	1	287664	6282174	Residential	19 Campbell Street North Richmond	60	54	P	48	42	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0048	NCA04	1	287734	6282217	Residential	27 Campbell Street North Richmond	60	54	P	48	42	47	41	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0049	NCA04	1	287744	6282250	Residential	27 Campbell Street North Richmond	60	55	P	49	43	49	43	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0050	NCA04	1	287717	6282237	Residential	27 Campbell Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0051	NCA04	1	287751	6282237	Residential	29 Campbell Street North Richmond	60	54	P	48	42	48	41	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0052	NCA04	1	287774	6282240	Residential	31 Campbell Street North Richmond	60	54	P	48	42	47	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0053	NCA04	1	287840	6282288	Residential	37 Campbell Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0054	NCA04	1	287854	6282316	Residential	37A Campbell Street North Richmond	60	55	P	49	43	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0055	NCA04	1	287877	6282336	Residential	2/39 Campbell Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0056	NCA04	1	287560	6281995	Residential	2 Campbell Street North Richmond	58	52	P	46	40	45	40	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0057	NCA04	1	287564	6282039	Residential	4 Campbell Street North Richmond	58	52	P	46	40	45	39	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0058	NCA04	1	287575	6282048	Residential	6 Campbell Street North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0059	NCA04	1	287598	6282065	Residential	8 Campbell Street North Richmond	59	53	P	47	41	47	41	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0060	NCA04	1	287606	6282071	Residential	10 Campbell Street North Richmond	59	52	P	47	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0061	NCA04	1	287623	6282088	Residential	12 Campbell Street North Richmond	58	53	P	46	41	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0062	NCA04	1	287639	6282103	Residential	14 Campbell Street North Richmond	59	53	P	47	41	46	40	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0063	NCA04	1	287657	6282115	Residential	16 Campbell Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0064	NCA04	1	287672	6282131	Residential	18 Campbell Street North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0065	NCA04	1	287689	6282144	Residential	20 Campbell Street North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0066	NCA04	1	287714	6282161	Residential	22 Campbell Street North Richmond	60	54	P	48	42	47	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0067	NCA04	1	287720	6282142	Residential	22 Campbell Street North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0068	NCA04	1	287731	6282144	Residential	24 Campbell Street North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0069	NCA04	1	287724	6282176	Residential	24 Campbell Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0070	NCA04	1	287754	6282179	Residential	26 Campbell Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0070	NCA04	2	287754	6282179	Residential	26 Campbell Street North Richmond	60	55	P	50	44	50	44	0.2	0.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA04.RES.0071	NCA04	1	287779	6282190	Residential	28 Campbell Street North Richmond	60	54	P	48	42	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0072	NCA04	1	287807	6282208	Residential	30 Campbell Street North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0073	NCA04	1	287843	6282204	Residential	32 Campbell Street North Richmond	60	55	P	49	43	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0074	NCA04	1	287833	6282214	Residential	32 Campbell Street North Richmond	60	55	P	49	43	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0075	NCA04	1	287823	6282223	Residential	32 Campbell Street North Richmond	60	55	P	49	43	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0076	NCA04	1	287917	6282053	Residential	1 Charles Street North Richmond	60	55	P	48	43	48	42	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0077	NCA04	1	287920	6282075	Residential	3 Charles Street North Richmond	60	54	P	48	42	48	42	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0078	NCA04	1	287948	6282076	Residential	3 Charles Street North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0079	NCA04	1	287958	6281999	Residential	1/2 Charles Street North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0080	NCA04	1	287984	6281970	Residential	1/2 Charles Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0081	NCA04	1	287943	6282017	Residential	2B Charles Street North Richmond	60	55	P	50	44	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0082	NCA04	1	287971	6281985	Residential	1/2 Charles Street North Richmond	60	55	P	49	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0083	NCA04	1	287931	6282007	Residential	2B Charles Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0084	NCA04	1	287948	6282047	Residential	4 Charles Street North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0085	NCA04	1	287961	6282024	Residential	4 Charles Street North Richmond	60	54	P	48	42	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0086	NCA04	1	287712	6282474	Residential	64 Elizabeth St North Richmond	60	55	P	53	47	53	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0087	NCA04	1	288098	6281914	Residential	3 Elizabeth Street North Richmond	60	55	P	59	54	59	53	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0088	NCA04	1	288061	6281889	Residential	5A Elizabeth Street North Richmond	60	55	P	57	51	56	50	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0089	NCA04	1	288083	6281928	Residential	5 Elizabeth Street North Richmond	60	55	P	56	50	55	49	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0090	NCA04	1	288032	6281894	Residential	5A Elizabeth Street North Richmond	60	55	P	53	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0092	NCA04	1	287999	6281951	Residential	9 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0093	NCA04	1	288043	6281971	Residential	9 Elizabeth Street North Richmond	60	55	P	51	46	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0094	NCA04	1	288023	6281997	Residential	13 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0095	NCA04	1	288006	6282013	Residential	15 Elizabeth Street North Richmond	60	55	P	51	45	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0096	NCA04	1	287998	6282023	Residential	17 Elizabeth Street North Richmond	60	55	P	50	45	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0097	NCA04	1	287989	6282033	Residential	19 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0098	NCA04	1	287979	6282044	Residential	21 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0099	NCA04	1	287968	6282057	Residential	23 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0101	NCA04	1	287940	6282089	Residential	27 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0102	NCA04	1	287881	6282154	Residential	1/35 Elizabeth Street North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0103	NCA04	1	287841	6282164	Residential	10/35 Elizabeth Street North Richmond	58	52	P	46	40	46	40	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0104	NCA04	1	287853	6282117	Residential	5/35 Elizabeth Street North Richmond	59	53	P	47	41	47	41	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0105	NCA04	1	287850	6282193	Residential	11/35 Elizabeth Street North Richmond	60	55	P	49	43	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0106	NCA04	1	287861	6282174	Residential	11/35 Elizabeth Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0107	NCA04	1	287862	6282129	Residential	3/35 Elizabeth Street North Richmond	58	52	P	46	40	46	40	0.5	0.5	-	-	-	-	-	-	-
NCA04.RES.0108	NCA04	1	287828	6282130	Residential	6/35 Elizabeth Street North Richmond	57	51	P	45	39	45	39	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0109	NCA04	1	287837	6282160	Residential	8/35 Elizabeth Street North Richmond	57	51	P	45	39	45	39	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0110	NCA04	1	287805	6282157	Residential	6/35 Elizabeth Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0111	NCA04	1	287836	6282180	Residential	39 Elizabeth Street North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0112	NCA04	1	287808	6282166	Residential	39 Elizabeth Street North Richmond	60	54	P	48	42	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0113	NCA04	1	287774	6282276	Residential	43A Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0114	NCA04	1	287787	6282260	Residential	43 Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0115	NCA04	1	287752	6282297	Residential	45 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0116	NCA04	1	287739	6282311	Residential	47 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0117	NCA04	1	287729	6282321	Residential	49 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0118	NCA04	1	287710	6282299	Residential	49A Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0119	NCA04	1	287670	6282309	Residential	51A Elizabeth Street North Richmond	60	54	P	48	42	48	42	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0120	NCA04	1	287721	6282331	Residential	51 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0121	NCA04	1	287699	6282348	Residential	53 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0122	NCA04	1	287694	6282364	Residential	55 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0123	NCA04	1	287663	6282398	Residential	59 Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0124	NCA04	1	287636	6282373	Residential	59A Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0124	NCA04	2	287636	6282373	Residential	59A Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.1	0.1	-	-	-	-	-	-	-
NCA04.RES.0125	NCA04	1	287675	6282385	Residential	59 Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0126	NCA04	1	287649	6282414	Residential	61 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0127	NCA04	1	287643	6282420	Residential	63 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0128	NCA04	1	287619	6282447	Residential	65 Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0129	NCA04	1	287606	6282464	Residential	67 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.1	0.1	-	-	-	-	-	-	-

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										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA04.RES.0130	NCA04	1	287973	6282096	Residential	14 Elizabeth Street North Richmond	60	55	P	50	44	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0135	NCA04	1	287823	6282286	Residential	44 Elizabeth Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0136	NCA04	1	287807	6282330	Residential	46C Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0137	NCA04	1	287822	6282312	Residential	46A Elizabeth Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0138	NCA04	1	287818	6282343	Residential	46B Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0139	NCA04	1	287789	6282330	Residential	50 Elizabeth Street North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0140	NCA04	1	287776	6282345	Residential	52 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0141	NCA04	1	287754	6282371	Residential	54 Elizabeth Street North Richmond	60	55	P	52	45	51	45	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0142	NCA04	1	287777	6282371	Residential	54 Elizabeth Street North Richmond	60	55	P	52	46	52	46	0.1	0.1	-	-	-	-	-	-	-
NCA04.RES.0143	NCA04	1	287723	6282398	Residential	56 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0144	NCA04	1	287719	6282410	Residential	58 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.1	0.1	-	-	-	-	-	-	-
NCA04.RES.0145	NCA04	1	287694	6282436	Residential	60 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0145	NCA04	2	287701	6282429	Residential	60 Elizabeth Street North Richmond	60	55	P	53	47	53	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0146	NCA04	1	287698	6282448	Residential	62 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0147	NCA04	1	287705	6282458	Residential	62 Elizabeth Street North Richmond	60	55	P	50	44	50	44	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0148	NCA04	1	287686	6282462	Residential	64 Elizabeth Street North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0149	NCA04	1	287661	6282471	Residential	66 Elizabeth Street North Richmond	60	55	P	51	45	51	45	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0149	NCA04	2	287661	6282471	Residential	66 Elizabeth Street North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0150	NCA04	1	287650	6282497	Residential	68 Elizabeth Street North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0151	NCA04	1	287677	6281939	Residential	1 Glenn Place North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0152	NCA04	1	287640	6281975	Residential	3A Glenn Place North Richmond	58	52	P	46	40	46	40	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0153	NCA04	1	287650	6281968	Residential	3 Glenn Place North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0154	NCA04	1	287632	6282021	Residential	5A Glenn Place North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0155	NCA04	1	287649	6282016	Residential	5 Glenn Place North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0156	NCA04	1	287690	6281998	Residential	7 Glenn Place North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0157	NCA04	1	287657	6281958	Residential	2 Glenn Place North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0158	NCA04	1	287613	6281995	Residential	4 Glenn Place North Richmond	58	52	P	46	40	45	39	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0159	NCA04	1	287676	6282038	Residential	6 Glenn Place North Richmond	58	53	P	46	41	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0167	NCA04	1	288109	6281891	Residential	18 Grose Vale Road North Richmond	60	55	P	71	65	70	64	0	0	-	-	-	-	-	-	-
NCA04.RES.0168	NCA04	1	288098	6281883	Residential	20 Grose Vale Road North Richmond	60	55	P	70	64	69	63	0	0	-	-	-	-	-	-	-
NCA04.RES.0169	NCA04	1	288082	6281873	Residential	22 Grose Vale Road North Richmond	60	55	P	68	62	67	61	0	0	-	-	-	-	-	-	-
NCA04.RES.0170	NCA04	1	288062	6281852	Residential	24 Grose Vale Road North Richmond	60	55	P	70	64	69	63	0	0	-	-	-	-	-	-	-
NCA04.RES.0171	NCA04	1	288039	6281850	Residential	26 Grose Vale Road North Richmond	60	55	P	60	54	60	54	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0172	NCA04	1	288041	6281834	Residential	26 Grose Vale Road North Richmond	60	55	P	69	63	68	63	0	0	-	-	-	-	-	-	-
NCA04.RES.0173	NCA04	1	288029	6281826	Residential	28 Grose Vale Road North Richmond	60	55	P	68	62	67	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0174	NCA04	1	288017	6281814	Residential	30 Grose Vale Road North Richmond	60	55	P	68	63	68	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0175	NCA04	1	287991	6281794	Residential	32 Grose Vale Road North Richmond	60	55	P	68	62	67	61	0	0	-	-	-	-	-	-	-
NCA04.RES.0176	NCA04	1	288005	6281801	Residential	32 Grose Vale Road North Richmond	60	55	P	70	64	69	63	0	0	-	-	-	-	-	-	-
NCA04.RES.0177	NCA04	1	287970	6281835	Residential	36 Grose Vale Road North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0178	NCA04	1	287952	6281814	Residential	36 Grose Vale Road North Richmond	60	55	P	52	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0179	NCA04	1	287983	6281785	Residential	36 Grose Vale Road North Richmond	60	55	P	68	63	67	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0179	NCA04	2	287983	6281785	Residential	36 Grose Vale Road North Richmond	60	55	P	69	64	69	63	0	0	-	-	-	-	-	-	-
NCA04.RES.0180	NCA04	1	287992	6281834	Residential	36 Grose Vale Road North Richmond	60	55	P	53	47	52	46	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0181	NCA04	1	287970	6281777	Residential	38 Grose Vale Road North Richmond	60	55	P	67	62	67	61	0	0	-	-	-	-	-	-	-
NCA04.RES.0181	NCA04	2	287970	6281777	Residential	38 Grose Vale Road North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0182	NCA04	1	287954	6281762	Residential	40 Grose Vale Road North Richmond	60	55	P	68	62	67	61	0	0	-	-	-	-	-	-	-
NCA04.RES.0183	NCA04	1	287929	6281786	Residential	40 Grose Vale Road North Richmond	60	55	P	52	46	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0184	NCA04	1	287944	6281754	Residential	42 Grose Vale Road North Richmond	60	55	P	68	62	67	61	0	0	-	-	-	-	-	-	-
NCA04.RES.0184	NCA04	2	287944	6281754	Residential	42 Grose Vale Road North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0185	NCA04	1	287915	6281773	Residential	44 Grose Vale Road North Richmond	60	55	P	54	48	53	47	0.1	0.1	-	-	-	-	-	-	-
NCA04.RES.0186	NCA04	1	287928	6281740	Residential	44 Grose Vale Road North Richmond	60	55	P	68	62	67	61	0	0	-	-	-	-	-	-	-
NCA04.RES.0186	NCA04	2	287928	6281740	Residential	44 Grose Vale Road North Richmond	60	55	P	69	63	68	63	0	0	-	-	-	-	-	-	-
NCA04.RES.0187	NCA04	1	287895	6281743	Residential	46 Grose Vale Road North Richmond	60	55	P	55	49	54	48	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0188	NCA04	1	287920	6281732	Residential	46 Grose Vale Road North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0189	NCA04	1	287899	6281714	Residential	48 Grose Vale Road North Richmond	60	55	P	67	61	66	60	0	0	-	-	-	-	-	-	-
NCA04.RES.0190	NCA04	1	287886	6281703	Residential	50 Grose Vale Road North Richmond	60	55	P	68	62	67	61	0	0	-	-	-	-	-	-	-
NCA04.RES.0191	NCA04	1	287871	6281689	Residential	52A Grose Vale Road North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0192	NCA04	1	287862	6281683	Residential	52A Grose Vale Road North Richmond	60	55	P	68	62	67	61	0	0	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA04.RES.0193	NCA04	1	287861	6281715	Residential	52B Grose Vale Road North Richmond	60	55	P	55	50	55	49	0.1	0.1	-	-	-	-	-	-	-
NCA04.RES.0194	NCA04	1	287838	6281707	Residential	54 Grose Vale Road North Richmond	60	55	P	54	48	53	47	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0194	NCA04	2	287838	6281707	Residential	54 Grose Vale Road North Richmond	60	55	P	57	51	56	50	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0195	NCA04	1	287847	6281697	Residential	54 Grose Vale Road North Richmond	60	55	P	56	50	55	49	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0196	NCA04	1	287829	6281691	Residential	54 Grose Vale Road North Richmond	60	55	P	52	46	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0197	NCA04	1	287846	6281676	Residential	56 Grose Vale Road North Richmond	60	55	P	66	61	66	60	0	0	-	-	-	-	-	-	-
NCA04.RES.0198	NCA04	1	287830	6281655	Residential	58 Grose Vale Road North Richmond	60	55	P	68	63	68	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0199	NCA04	1	287817	6281645	Residential	60 Grose Vale Road North Richmond	60	55	P	68	63	68	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0200	NCA04	1	287807	6281641	Residential	62 Grose Vale Road North Richmond	60	55	P	67	61	66	60	0	0	-	-	-	-	-	-	-
NCA04.RES.0200	NCA04	2	287807	6281641	Residential	62 Grose Vale Road North Richmond	60	55	P	68	62	67	62	0	0	-	-	-	-	-	-	-
NCA04.RES.0201	NCA04	1	287787	6281659	Residential	62 Grose Vale Road North Richmond	60	55	P	56	50	55	49	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0202	NCA04	1	287735	6281824	Residential	1 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0203	NCA04	1	287714	6281851	Residential	1B Hayman Street North Richmond	60	54	P	48	42	47	42	0.5	0.5	-	-	-	-	-	-	-
NCA04.RES.0204	NCA04	1	287748	6281839	Residential	3 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0205	NCA04	1	287754	6281854	Residential	5 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0206	NCA04	1	287766	6281868	Residential	7 Hayman Street North Richmond	60	55	P	49	43	48	43	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0207	NCA04	1	287782	6281881	Residential	9 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0208	NCA04	1	287794	6281892	Residential	11 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0209	NCA04	1	287798	6281896	Residential	11 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0210	NCA04	1	287809	6281906	Residential	13 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0211	NCA04	1	287825	6281916	Residential	15 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0212	NCA04	1	287836	6281942	Residential	17 Hayman Street North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0213	NCA04	1	287861	6281948	Residential	19 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0214	NCA04	1	287872	6281967	Residential	21 Hayman Street North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0215	NCA04	1	287803	6281828	Residential	4 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0216	NCA04	1	287811	6281847	Residential	6 Hayman Street North Richmond	60	55	P	49	43	48	42	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0217	NCA04	1	287832	6281856	Residential	8 Hayman Street North Richmond	60	55	P	49	43	49	43	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0218	NCA04	1	287849	6281872	Residential	10 Hayman Street North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0219	NCA04	1	287860	6281891	Residential	12 Hayman Street North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0220	NCA04	1	287831	6281725	Residential	5/10 Ignatius Av North Richmond	60	55	P	51	45	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0221	NCA04	1	287812	6281700	Residential	4/10 Ignatius Av North Richmond	60	55	P	50	44	49	44	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0222	NCA04	1	287827	6281796	Residential	1 Ignatius Avenue North Richmond	60	55	P	50	44	49	44	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0223	NCA04	1	287842	6281805	Residential	3 Ignatius Avenue North Richmond	60	55	P	50	45	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0224	NCA04	1	287859	6281822	Residential	5 Ignatius Avenue North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0225	NCA04	1	287872	6281859	Residential	7 Ignatius Avenue North Richmond	60	55	P	51	45	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0226	NCA04	1	287869	6281832	Residential	7 Ignatius Avenue North Richmond	60	55	P	50	44	49	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0227	NCA04	1	287910	6281849	Residential	9 Ignatius Avenue North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0228	NCA04	1	287928	6281829	Residential	11 Ignatius Avenue North Richmond	60	55	P	51	45	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0229	NCA04	1	287931	6281811	Residential	11 Ignatius Avenue North Richmond	60	55	P	51	45	50	45	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0230	NCA04	1	287942	6281809	Residential	11 Ignatius Avenue North Richmond	60	55	P	53	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0231	NCA04	1	287906	6281812	Residential	11 Ignatius Avenue North Richmond	60	55	P	51	45	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0232	NCA04	1	287919	6281776	Residential	13 Ignatius Avenue North Richmond	60	55	P	53	48	53	47	0.1	0.1	-	-	-	-	-	-	-
NCA04.RES.0233	NCA04	1	287902	6281791	Residential	13 Ignatius Avenue North Richmond	60	55	P	52	46	51	45	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0234	NCA04	1	287889	6281776	Residential	15 Ignatius Avenue North Richmond	60	55	P	50	45	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0235	NCA04	1	287770	6281800	Residential	2 Ignatius Avenue North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0236	NCA04	1	287781	6281794	Residential	4 Ignatius Avenue North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0237	NCA04	1	287796	6281777	Residential	6 Ignatius Avenue North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0238	NCA04	1	287811	6281763	Residential	8 Ignatius Avenue North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0239	NCA04	1	287792	6281736	Residential	8A Ignatius Avenue North Richmond	60	55	P	49	43	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0240	NCA04	1	287795	6281732	Residential	8A Ignatius Avenue North Richmond	60	55	P	48	43	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0241	NCA04	1	287803	6281710	Residential	8A Ignatius Avenue North Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0242	NCA04	1	287831	6281758	Residential	10 Ignatius Avenue North Richmond	60	55	P	51	45	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0243	NCA04	1	287853	6281745	Residential	12 Ignatius Avenue North Richmond	60	55	P	51	45	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0244	NCA04	1	287873	6281763	Residential	14 Ignatius Avenue North Richmond	60	55	P	53	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0245	NCA04	1	287272	6282269	Residential	1 Merrick Place North Richmond	57	51	P	45	39	45	39	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0246	NCA04	1	287295	6282319	Residential	3 Merrick Place North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0247	NCA04	1	287304	6282372	Residential	5 Merrick Place North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0248	NCA04	1	287291	6282286	Residential	2 Merrick Place North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA04.RES.0249	NCA04	1	287303	6282338	Residential	4 Merrick Place North Richmond	57	51	P	45	39	45	39	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0250	NCA04	1	287304	6282396	Residential	6 Merrick Place North Richmond	58	52	P	46	40	46	40	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0250	NCA04	2	287304	6282396	Residential	6 Merrick Place North Richmond	59	53	P	47	41	47	41	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0251	NCA04	1	287635	6281916	Residential	3 Mokari Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0252	NCA04	1	287693	6281978	Residential	5 Mokari Street North Richmond	59	53	P	47	41	47	41	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0253	NCA04	1	287706	6281973	Residential	5 Mokari Street North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0254	NCA04	1	287711	6281994	Residential	7 Mokari Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0255	NCA04	1	287727	6281990	Residential	7 Mokari Street North Richmond	60	54	P	48	42	48	42	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0256	NCA04	1	287759	6281997	Residential	9 Mokari Street North Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0257	NCA04	1	287775	6282021	Residential	11 Mokari Street North Richmond	60	54	P	48	42	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0258	NCA04	1	287714	6281872	Residential	2 Mokari Street North Richmond	60	54	P	48	42	47	41	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0259	NCA04	1	287692	6281891	Residential	2 Mokari Street North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0260	NCA04	1	287713	6281901	Residential	4 Mokari Street North Richmond	60	54	P	48	42	48	42	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0261	NCA04	1	287733	6281918	Residential	6 Mokari Street North Richmond	60	55	P	49	43	48	42	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0262	NCA04	1	287749	6281938	Residential	8 Mokari Street North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0263	NCA04	1	287767	6281951	Residential	10 Mokari Street North Richmond	60	54	P	48	42	48	42	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0264	NCA04	1	287791	6281965	Residential	12 Mokari Street North Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0265	NCA04	1	287808	6281981	Residential	14 Mokari Street North Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0266	NCA04	1	287831	6281995	Residential	16 Mokari Street North Richmond	60	54	P	48	42	48	42	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0267	NCA04	1	287847	6282011	Residential	18 Mokari Street North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0268	NCA04	1	287900	6281929	Residential	1 Monti Place North Richmond	60	55	P	51	45	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0269	NCA04	1	287933	6281894	Residential	3 Monti Place North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0270	NCA04	1	287959	6281864	Residential	5 Monti Place North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0271	NCA04	1	288024	6281885	Residential	7A Monti Place North Richmond	60	55	P	53	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0272	NCA04	1	288004	6281880	Residential	7 Monti Place North Richmond	60	55	P	51	45	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0273	NCA04	1	287977	6281934	Residential	9 Monti Place North Richmond	60	55	P	49	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0274	NCA04	1	287941	6281975	Residential	11 Monti Place North Richmond	60	55	P	50	44	49	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0275	NCA04	1	287911	6281995	Residential	13 Monti Place North Richmond	60	55	P	50	44	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0276	NCA04	1	287883	6282050	Residential	15 Monti Place North Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0277	NCA04	1	287861	6282058	Residential	15 Monti Place North Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0278	NCA04	1	287830	6282081	Residential	17 Monti Place North Richmond	60	54	P	48	42	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0278	NCA04	2	287830	6282081	Residential	17 Monti Place North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0279	NCA04	1	287785	6282093	Residential	19 Monti Place North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0280	NCA04	1	287770	6282090	Residential	19A Monti Place North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0281	NCA04	1	287709	6282084	Residential	1/21 Monti Place North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0282	NCA04	1	287697	6282030	Residential	23 Monti Place North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0283	NCA04	1	287718	6282039	Residential	23A Monti Place North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0284	NCA04	1	287768	6282036	Residential	25 Monti Place North Richmond	60	54	P	48	42	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0285	NCA04	1	287913	6281915	Residential	2 Monti Place North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0286	NCA04	1	287941	6281881	Residential	4 Monti Place North Richmond	60	55	P	50	44	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0287	NCA04	1	287994	6281869	Residential	6 Monti Place North Richmond	60	55	P	52	46	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0288	NCA04	1	287982	6281904	Residential	8 Monti Place North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0289	NCA04	1	288005	6281925	Residential	8B Monti Place North Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0290	NCA04	1	287951	6281952	Residential	10 Monti Place North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0291	NCA04	1	287929	6281976	Residential	12 Monti Place North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0292	NCA04	1	287889	6282036	Residential	14 Monti Place North Richmond	60	55	P	49	44	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0293	NCA04	1	287842	6282071	Residential	16 Monti Place North Richmond	60	54	P	48	42	48	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0294	NCA04	1	287798	6282079	Residential	18 Monti Place North Richmond	60	54	P	48	42	48	42	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0295	NCA04	1	287745	6282086	Residential	20A Monti Place North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0296	NCA04	1	287740	6282098	Residential	20B Monti Place North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0297	NCA04	1	287685	6282062	Residential	22C Monti Place North Richmond	59	53	P	47	41	47	41	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0298	NCA04	1	287698	6282061	Residential	22 Monti Place North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0299	NCA04	1	287712	6282053	Residential	22 Monti Place North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0300	NCA04	1	287735	6282031	Residential	24 Monti Place North Richmond	60	54	P	48	42	47	42	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0301	NCA04	1	287804	6282033	Residential	26 Monti Place North Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0302	NCA04	1	287475	6282179	Residential	1 Morton Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0303	NCA04	1	287463	6282193	Residential	3 Morton Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0304	NCA04	1	287454	6282200	Residential	5 Morton Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA04.RES.0305	NCA04	1	287438	6282225	Residential	7 Morton Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0306	NCA04	1	287427	6282241	Residential	9 Morton Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0307	NCA04	1	287427	6282257	Residential	11 Morton Street North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0308	NCA04	1	287426	6282271	Residential	13 Morton Street North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0309	NCA04	1	287431	6282283	Residential	15 Morton Street North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0310	NCA04	1	287436	6282302	Residential	17 Morton Street North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0311	NCA04	1	287526	6282182	Residential	2 Morton Street North Richmond	59	53	P	47	41	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0312	NCA04	1	287501	6282224	Residential	4 Morton Street North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0313	NCA04	1	287489	6282238	Residential	6 Morton Street North Richmond	58	53	P	46	41	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0314	NCA04	1	287479	6282263	Residential	8 Morton Street North Richmond	60	54	P	48	42	48	42	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0315	NCA04	1	287484	6282283	Residential	10 Morton Street North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0316	NCA04	1	287793	6281687	Residential	2 Pecks Road North Richmond	60	55	P	51	45	51	45	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0317	NCA04	1	287803	6281681	Residential	2 Pecks Road North Richmond	60	55	P	53	48	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0318	NCA04	1	287767	6281695	Residential	4 Pecks Road North Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0319	NCA04	1	287752	6281715	Residential	6 Pecks Road North Richmond	60	55	P	49	44	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0320	NCA04	1	287747	6281725	Residential	8 Pecks Road North Richmond	60	55	P	49	43	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0321	NCA04	1	287751	6281760	Residential	10 Pecks Road North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0322	NCA04	1	287734	6281764	Residential	12 Pecks Road North Richmond	60	55	P	49	43	48	42	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0323	NCA04	1	287749	6281780	Residential	12 Pecks Road North Richmond	60	55	P	49	43	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0324	NCA04	1	287723	6281809	Residential	14 Pecks Road North Richmond	60	55	P	49	43	49	43	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0325	NCA04	1	287704	6281785	Residential	14 Pecks Road North Richmond	60	55	P	49	43	48	42	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0326	NCA04	1	287697	6281818	Residential	16 Pecks Road North Richmond	60	55	P	49	43	48	43	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0327	NCA04	1	287687	6281828	Residential	18 Pecks Road North Richmond	60	54	P	48	42	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0328	NCA04	1	287674	6281844	Residential	20 Pecks Road North Richmond	60	54	P	48	42	47	41	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0329	NCA04	1	287669	6281854	Residential	22 Pecks Road North Richmond	60	54	P	48	42	48	42	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0329	NCA04	2	287669	6281854	Residential	22 Pecks Road North Richmond	60	55	P	49	44	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0330	NCA04	1	287622	6281906	Residential	38 Pecks Road North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0331	NCA04	1	287619	6281914	Residential	40 Pecks Road North Richmond	60	54	P	48	42	47	41	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0332	NCA04	1	287608	6281924	Residential	40 Pecks Road North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0333	NCA04	1	287607	6281939	Residential	42 Pecks Road North Richmond	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0334	NCA04	1	287605	6281960	Residential	44 Pecks Road North Richmond	59	53	P	47	41	47	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0335	NCA04	1	287588	6281978	Residential	46 Pecks Road North Richmond	59	53	P	47	41	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0336	NCA04	1	287544	6281994	Residential	48 Pecks Road North Richmond	58	52	P	46	40	45	39	0.5	0.4	-	-	-	-	-	-	-
NCA04.RES.0337	NCA04	1	287527	6282015	Residential	48 Pecks Road North Richmond	57	51	P	45	39	45	39	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0338	NCA04	1	287510	6282035	Residential	50 Pecks Road North Richmond	58	52	P	46	40	45	40	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0339	NCA04	1	287512	6282064	Residential	52 Pecks Road North Richmond	57	51	P	45	39	45	39	0.4	0.4	-	-	-	-	-	-	-
NCA04.RES.0340	NCA04	1	287438	6282153	Residential	58 Pecks Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0341	NCA04	1	287433	6282171	Residential	60 Pecks Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0342	NCA04	1	287413	6282180	Residential	62 Pecks Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0343	NCA04	1	287404	6282189	Residential	64 Pecks Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0344	NCA04	1	287399	6282203	Residential	66 Pecks Road North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0345	NCA04	1	287324	6282234	Residential	70A Pecks Road North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0346	NCA04	1	287286	6282260	Residential	72 Pecks Road North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0347	NCA04	1	287323	6282255	Residential	3 Susella Crescent North Richmond	57	51	P	45	39	45	39	0.4	0.3	-	-	-	-	-	-	-
NCA04.RES.0348	NCA04	1	287332	6282266	Residential	5 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0349	NCA04	1	287341	6282289	Residential	7 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0350	NCA04	1	287340	6282310	Residential	9 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0351	NCA04	1	287341	6282320	Residential	11 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0352	NCA04	1	287344	6282334	Residential	13 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0353	NCA04	1	287341	6282359	Residential	15 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0354	NCA04	1	287349	6282377	Residential	17 Susella Crescent North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0355	NCA04	1	287371	6282400	Residential	19 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0356	NCA04	1	287394	6282387	Residential	21 Susella Crescent North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0357	NCA04	1	287427	6282365	Residential	23 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0358	NCA04	1	287447	6282354	Residential	25 Susella Crescent North Richmond	60	53	P	48	41	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0359	NCA04	1	287466	6282349	Residential	27 Susella Crescent North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0360	NCA04	1	287479	6282337	Residential	29 Susella Crescent North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0361	NCA04	1	287491	6282336	Residential	31 Susella Crescent North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA04.RES.0362	NCA04	1	287530	6282312	Residential	33 Susella Crescent North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0363	NCA04	1	287556	6282295	Residential	37 Susella Crescent North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0364	NCA04	1	287570	6282285	Residential	39 Susella Crescent North Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0365	NCA04	1	287539	6282257	Residential	41 Susella Crescent North Richmond	59	53	P	47	41	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0366	NCA04	1	287518	6282263	Residential	43 Susella Crescent North Richmond	59	53	P	47	41	47	40	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0367	NCA04	1	287504	6282269	Residential	45 Susella Crescent North Richmond	60	54	P	48	42	48	42	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0368	NCA04	1	287373	6282217	Residential	2 Susella Crescent North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0369	NCA04	1	287383	6282236	Residential	4 Susella Crescent North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0370	NCA04	1	287374	6282247	Residential	6 Susella Crescent North Richmond	57	51	P	45	39	45	39	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0371	NCA04	1	287389	6282262	Residential	8 Susella Crescent North Richmond	58	52	P	46	40	46	40	0.3	0.3	-	-	-	-	-	-	-
NCA04.RES.0372	NCA04	1	287381	6282292	Residential	10 Susella Crescent North Richmond	58	52	P	46	40	46	40	0.3	0.2	-	-	-	-	-	-	-
NCA04.RES.0373	NCA04	1	287393	6282330	Residential	12 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.2	-	-	-	-	-	-	-
NCA04.RES.0374	NCA04	1	287407	6282313	Residential	14 Susella Crescent North Richmond	59	53	P	47	41	47	41	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0375	NCA04	1	287763	6282418	Residential	1 Trent Place North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0376	NCA04	1	287804	6282386	Residential	3 Trent Place North Richmond	60	55	P	52	46	52	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0377	NCA04	1	287785	6282415	Residential	2 Trent Place North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0378	NCA04	1	287894	6282360	Residential	49 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0379	NCA04	1	287877	6282383	Residential	51 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0380	NCA04	1	287885	6282371	Residential	51 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0381	NCA04	1	287864	6282354	Residential	51 William Street North Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA04.RES.0382	NCA04	1	287861	6282393	Residential	53 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0383	NCA04	1	287852	6282410	Residential	55 William Street North Richmond	60	55	P	55	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0384	NCA04	1	287839	6282425	Residential	57 William Street North Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0385	NCA04	1	287805	6282436	Residential	59 William Street North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0386	NCA04	1	287825	6282440	Residential	59 William Street North Richmond	60	55	P	53	47	53	47	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0387	NCA04	1	287810	6282457	Residential	61 William Street North Richmond	60	55	P	53	47	53	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0388	NCA04	1	287791	6282475	Residential	63 William Street North Richmond	60	55	P	53	46	53	46	0.1	0	-	-	-	-	-	-	-
NCA04.RES.0389	NCA04	1	287773	6282482	Residential	65 William Street North Richmond	60	55	P	54	47	54	47	0.1	0	-	-	-	-	-	-	-
NCA05.OOA.0007	NCA05	1	288876	6281828	Other (Outdoor Active)	45 Beaumont Avenue North Richmond	60	-	P	51	46	53	47	13.5	13.5	-	-	-	-	-	-	-
NCA05.OOA.0008	NCA05	1	288776	6281744	Other (Outdoor Active)	31/34 Beaumont Avenue North Richmond	60	-	P	58	52	57	51	17.3	17.1	-	-	-	-	-	-	-
NCA05.OOA.0052	NCA05	1	288709	6282150	Other (Outdoor Active)	Beaumont Avenue North Richmond	60	-	P	47	41	47	41	1.8	1.8	-	-	-	-	-	-	-
NCA05.OOA.0099	NCA05	1	288596	6282144	Other (Outdoor Active)	20A Terrace Road North Richmond	60	-	P	50	44	50	44	0.9	0.9	-	-	-	-	-	-	-
NCA05.OPW.0090	NCA05	1	288589	6282239	Other (Place of Worship)	26 Terrace Rd North Richmond	50	50	H	72	70	71	69	0	0	-	-	-	-	-	-	-
NCA05.RES.0001	NCA05	1	288796	6282018	Residential	35 Beaumont Avenue North Richmond	60	55	P	51	45	51	45	5	5.2	-	-	-	-	-	-	-
NCA05.RES.0001	NCA05	2	288796	6282018	Residential	35 Beaumont Avenue North Richmond	60	55	P	52	47	52	47	5.3	5.5	-	-	-	-	-	-	-
NCA05.RES.0002	NCA05	1	288803	6282004	Residential	37 Beaumont Avenue North Richmond	60	55	P	51	45	50	45	5.2	5.4	-	-	-	-	-	-	-
NCA05.RES.0002	NCA05	2	288803	6282004	Residential	37 Beaumont Avenue North Richmond	60	55	P	52	46	52	46	5.2	5.4	-	-	-	-	-	-	-
NCA05.RES.0003	NCA05	1	288839	6281985	Residential	39 Beaumont Avenue North Richmond	59	54	P	48	42	49	43	9.8	10	-	-	-	-	-	-	-
NCA05.RES.0003	NCA05	2	288839	6281985	Residential	39 Beaumont Avenue North Richmond	59	54	P	51	46	52	47	8.3	8.4	-	-	-	-	-	-	-
NCA05.RES.0004	NCA05	1	288825	6281974	Residential	39 Beaumont Avenue North Richmond	59	54	P	49	44	50	44	10.8	10.9	-	-	-	-	-	-	-
NCA05.RES.0004	NCA05	2	288825	6281974	Residential	39 Beaumont Avenue North Richmond	59	54	P	52	47	53	48	9.7	9.8	-	-	-	-	-	-	-
NCA05.RES.0005	NCA05	1	288806	6281986	Residential	39 Beaumont Avenue North Richmond	59	54	P	51	45	51	45	7.3	7.5	-	-	-	-	-	-	-
NCA05.RES.0005	NCA05	2	288806	6281986	Residential	39 Beaumont Avenue North Richmond	59	54	P	52	47	52	47	6.8	6.9	-	-	-	-	-	-	-
NCA05.RES.0006	NCA05	1	288811	6281966	Residential	39 Beaumont Avenue North Richmond	59	54	P	51	46	51	46	7.5	7.6	-	-	-	-	-	-	-
NCA05.RES.0006	NCA05	2	288811	6281966	Residential	39 Beaumont Avenue North Richmond	59	54	P	53	48	54	48	7.3	7.4	-	-	-	-	-	-	-
NCA05.RES.0009	NCA05	1	288754	6282000	Residential	3/34 Beaumont Avenue North Richmond	60	55	P	49	43	49	43	6.1	6.2	-	-	-	-	-	-	-
NCA05.RES.0010	NCA05	1	288691	6281928	Residential	51/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	45	7.5	7.6	-	-	-	-	-	-	-
NCA05.RES.0011	NCA05	1	288744	6281914	Residential	20/34 Beaumont Avenue North Richmond	59	54	P	49	44	50	44	8.3	8.6	-	-	-	-	-	-	-
NCA05.RES.0012	NCA05	1	288728	6281956	Residential	24/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	44	6.5	6.7	-	-	-	-	-	-	-
NCA05.RES.0013	NCA05	1	288779	6281991	Residential	5/34 Beaumont Avenue North Richmond	60	55	P	49	43	50	44	6.3	6.3	-	-	-	-	-	-	-
NCA05.RES.0014	NCA05	1	288730	6281939	Residential	22/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	44	6.7	6.9	-	-	-	-	-	-	-
NCA05.RES.0015	NCA05	1	288747	6281952	Residential	6/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	44	7.6	7.8	-	-	-	-	-	-	-
NCA05.RES.0016	NCA05	1	288713	6281917	Residential	34 Beaumont Avenue North Richmond	60	55	P	50	45	51	45	8.8	8.9	-	-	-	-	-	-	-
NCA05.RES.0017	NCA05	1	288764	6281862	Residential	25/34 Beaumont Avenue North Richmond	58	53	P	57	51	57	52	12.7	12.5	-	-	-	-	-	-	-
NCA05.RES.0018	NCA05	1	288749	6282007	Residential	1/34 Beaumont Avenue North Richmond	60	55	P	49	43	49	44	5.9	6.1	-	-	-	-	-	-	-
NCA05.RES.0019	NCA05	1	288717	6281862	Residential	33/34 Beaumont Avenue North Richmond	59	54	P	56	50	58	52	16.5	16.7	-	-	-	-	-	-	-
NCA05.RES.0020	NCA05	1	288748	6281936	Residential	10/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	44	7.6	7.7	-	-	-	-	-	-	-
NCA05.RES.0021	NCA05	1	288710	6281984	Residential	61/34 Beaumont Avenue North Richmond	60	55	P	49	44	50	44	7	7.1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA05.RES.0022	NCA05	1	288687	6281981	Residential	61/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	44	6.2	6.4	-	-	-	-	-	-	-
NCA05.RES.0023	NCA05	1	288740	6281839	Residential	31/34 Beaumont Avenue North Richmond	58	53	P	59	53	59	54	14.1	14	-	-	-	-	-	-	-
NCA05.RES.0024	NCA05	1	288788	6281936	Residential	15/34 Beaumont Avenue North Richmond	59	54	P	51	45	53	47	10.2	10.4	-	-	-	-	-	-	-
NCA05.RES.0025	NCA05	1	288776	6281882	Residential	23/34 Beaumont Avenue North Richmond	58	53	P	56	50	56	51	11.6	11.6	-	-	-	-	-	-	-
NCA05.RES.0026	NCA05	1	288781	6281980	Residential	7/34 Beaumont Avenue North Richmond	60	55	P	49	43	50	45	7.3	7.3	-	-	-	-	-	-	-
NCA05.RES.0027	NCA05	1	288708	6281945	Residential	55/34 Beaumont Avenue North Richmond	60	55	P	49	44	50	44	7.5	7.7	-	-	-	-	-	-	-
NCA05.RES.0028	NCA05	1	288750	6281918	Residential	12/34 Beaumont Avenue North Richmond	59	54	P	50	44	50	44	7.8	8.1	-	-	-	-	-	-	-
NCA05.RES.0029	NCA05	1	288697	6281917	Residential	45/34 Beaumont Avenue North Richmond	60	55	P	49	44	49	44	5.8	6	-	-	-	-	-	-	-
NCA05.RES.0030	NCA05	1	288719	6281992	Residential	65/34 Beaumont Avenue North Richmond	60	55	P	49	43	49	43	6.5	6.6	-	-	-	-	-	-	-
NCA05.RES.0031	NCA05	1	288786	6281905	Residential	19/34 Beaumont Avenue North Richmond	58	53	P	54	48	55	49	10.1	10	-	-	-	-	-	-	-
NCA05.RES.0032	NCA05	1	288731	6281896	Residential	18/34 Beaumont Avenue North Richmond	59	54	P	51	45	51	46	8.9	8.9	-	-	-	-	-	-	-
NCA05.RES.0033	NCA05	1	288758	6281853	Residential	29/34 Beaumont Avenue North Richmond	58	53	P	57	52	58	52	12.9	12.7	-	-	-	-	-	-	-
NCA05.RES.0034	NCA05	1	288789	6281924	Residential	17/34 Beaumont Avenue North Richmond	58	53	P	52	47	54	48	12.2	12.2	-	-	-	-	-	-	-
NCA05.RES.0035	NCA05	1	288680	6281946	Residential	51/34 Beaumont Avenue North Richmond	60	55	P	50	44	49	44	5.9	6.1	-	-	-	-	-	-	-
NCA05.RES.0036	NCA05	1	288716	6281954	Residential	59/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	45	7.5	7.6	-	-	-	-	-	-	-
NCA05.RES.0037	NCA05	1	288711	6281939	Residential	34 Beaumont Avenue North Richmond	60	55	P	49	44	49	43	6	6.2	-	-	-	-	-	-	-
NCA05.RES.0038	NCA05	1	288718	6281897	Residential	39/34 Beaumont Avenue North Richmond	60	55	P	49	44	49	44	6.3	6.5	-	-	-	-	-	-	-
NCA05.RES.0039	NCA05	1	288744	6281886	Residential	16/34 Beaumont Avenue North Richmond	59	54	P	51	45	51	45	8.9	9.1	-	-	-	-	-	-	-
NCA05.RES.0040	NCA05	1	288670	6281937	Residential	47/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	44	6.3	6.4	-	-	-	-	-	-	-
NCA05.RES.0041	NCA05	1	288785	6281943	Residential	13/34 Beaumont Avenue North Richmond	59	54	P	49	44	52	46	9.7	9.8	-	-	-	-	-	-	-
NCA05.RES.0042	NCA05	1	288680	6281920	Residential	47/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	44	8.1	8.2	-	-	-	-	-	-	-
NCA05.RES.0043	NCA05	1	288780	6281890	Residential	21/34 Beaumont Avenue North Richmond	58	53	P	55	50	56	50	11.8	11.7	-	-	-	-	-	-	-
NCA05.RES.0044	NCA05	1	288739	6281872	Residential	35/34 Beaumont Avenue North Richmond	59	54	P	52	46	53	47	11.2	11.3	-	-	-	-	-	-	-
NCA05.RES.0045	NCA05	1	288723	6281891	Residential	37/34 Beaumont Avenue North Richmond	60	55	P	50	44	49	44	6.6	6.8	-	-	-	-	-	-	-
NCA05.RES.0046	NCA05	1	288722	6281967	Residential	26/34 Beaumont Avenue North Richmond	60	55	P	50	44	50	45	6.8	6.9	-	-	-	-	-	-	-
NCA05.RES.0047	NCA05	1	288739	6281982	Residential	2/34 Beaumont Avenue North Richmond	60	55	P	49	43	49	43	5.9	6	-	-	-	-	-	-	-
NCA05.RES.0048	NCA05	1	288703	6281912	Residential	43/34 Beaumont Avenue North Richmond	60	55	P	49	44	49	44	6.2	6.2	-	-	-	-	-	-	-
NCA05.RES.0049	NCA05	1	288719	6281978	Residential	28/34 Beaumont Avenue North Richmond	60	55	P	49	44	50	44	6.1	6.3	-	-	-	-	-	-	-
NCA05.RES.0050	NCA05	1	288784	6281959	Residential	11/34 Beaumont Avenue North Richmond	59	54	P	49	44	51	46	8.7	8.8	-	-	-	-	-	-	-
NCA05.RES.0051	NCA05	1	288703	6282015	Residential	36 Beaumont Avenue North Richmond	60	55	P	49	43	49	44	6.7	6.9	-	-	-	-	-	-	-
NCA05.RES.0051	NCA05	2	288703	6282015	Residential	36 Beaumont Avenue North Richmond	60	55	P	52	46	53	47	6.1	6.2	-	-	-	-	-	-	-
NCA05.RES.0053	NCA05	1	288518	6281976	Residential	28 Bells Line Of Road North Richmond	60	55	P	64	59	65	59	18	18.3	-	-	Y	-	Y	-	Y
NCA05.RES.0054	NCA05	1	288922	6282050	Residential	11 Norfolk Place North Richmond	58	52	P	46	40	46	41	6.9	6.9	-	-	-	-	-	-	-
NCA05.RES.0054	NCA05	2	288913	6282046	Residential	11 Norfolk Place North Richmond	59	54	P	49	43	50	44	6.4	6.5	-	-	-	-	-	-	-
NCA05.RES.0055	NCA05	1	288881	6282092	Residential	15 Norfolk Place North Richmond	59	53	P	47	41	47	41	1.8	1.8	-	-	-	-	-	-	-
NCA05.RES.0056	NCA05	1	288910	6282128	Residential	17 Norfolk Place North Richmond	60	55	P	49	43	48	42	1.4	1.4	-	-	-	-	-	-	-
NCA05.RES.0057	NCA05	1	288964	6282062	Residential	23 Norfolk Place North Richmond	59	53	P	47	41	47	41	3.7	3.8	-	-	-	-	-	-	-
NCA05.RES.0057	NCA05	2	288972	6282064	Residential	23 Norfolk Place North Richmond	59	54	P	50	44	51	46	6.7	6.6	-	-	-	-	-	-	-
NCA05.RES.0058	NCA05	1	288998	6282046	Residential	23 Norfolk Place North Richmond	57	52	P	51	45	52	46	9	8.9	-	-	-	-	-	-	-
NCA05.RES.0058	NCA05	2	288991	6282045	Residential	23 Norfolk Place North Richmond	58	53	P	52	47	53	47	6.7	6.7	-	-	-	-	-	-	-
NCA05.RES.0059	NCA05	1	288969	6282027	Residential	25 Norfolk Place North Richmond	58	53	P	51	45	52	47	9.7	9.7	-	-	-	-	-	-	-
NCA05.RES.0059	NCA05	2	288969	6282027	Residential	25 Norfolk Place North Richmond	58	53	P	52	46	53	47	8.9	8.8	-	-	-	-	-	-	-
NCA05.RES.0060	NCA05	1	288949	6282009	Residential	27 Norfolk Place North Richmond	58	53	P	52	46	53	47	10	9.9	-	-	-	-	-	-	-
NCA05.RES.0060	NCA05	2	288949	6282009	Residential	27 Norfolk Place North Richmond	58	53	P	52	47	53	48	8.8	8.8	-	-	-	-	-	-	-
NCA05.RES.0061	NCA05	1	288906	6281977	Residential	31B Norfolk Place North Richmond	58	53	P	52	47	53	48	10.3	10.2	-	-	-	-	-	-	-
NCA05.RES.0061	NCA05	2	288906	6281977	Residential	31B Norfolk Place North Richmond	58	53	P	53	48	54	48	9.3	9.3	-	-	-	-	-	-	-
NCA05.RES.0062	NCA05	1	288881	6281953	Residential	33 Norfolk Place North Richmond	57	52	P	53	47	54	48	10.5	10.4	-	-	-	-	-	-	-
NCA05.RES.0062	NCA05	2	288881	6281953	Residential	33 Norfolk Place North Richmond	57	52	P	54	48	54	49	9.7	9.6	-	-	-	-	-	-	-
NCA05.RES.0063	NCA05	1	288864	6281932	Residential	35A Norfolk Place North Richmond	57	52	P	53	48	54	49	10.5	10.6	-	-	-	-	-	-	-
NCA05.RES.0063	NCA05	2	288857	6281930	Residential	35A Norfolk Place North Richmond	57	52	P	54	49	55	49	9.6	9.6	-	-	-	-	-	-	-
NCA05.RES.0064	NCA05	1	288837	6281901	Residential	37 Norfolk Place North Richmond	57	52	P	55	49	56	50	12.2	12.1	-	-	-	-	-	-	-
NCA05.RES.0064	NCA05	2	288837	6281901	Residential	37 Norfolk Place North Richmond	57	52	P	55	50	56	50	11.2	11.1	-	-	-	-	-	-	-
NCA05.RES.0065	NCA05	1	288901	6282077	Residential	14 Norfolk Place North Richmond	58	52	P	46	40	46	40	3.4	3.4	-	-	-	-	-	-	-
NCA05.RES.0066	NCA05	1	288888	6282109	Residential	16 Norfolk Place North Richmond	60	55	P	48	43	48	43	1.9	1.9	-	-	-	-	-	-	-
NCA05.RES.0067	NCA05	1	288927	6282128	Residential	18 Norfolk Place North Richmond	60	55	P	49	43	48	43	1.4	1.4	-	-	-	-	-	-	-
NCA05.RES.0067	NCA05	2	288927	6282128	Residential	18 Norfolk Place North Richmond	60	55	P	50	44	50	44	1.7	1.7	-	-	-	-	-	-	-
NCA05.RES.0068	NCA05	1	288937	6282100	Residential	18 Norfolk Place North Richmond	58	53	P	46	41	46	41	4.1	4.3	-	-	-	-	-	-	-
NCA05.RES.0068	NCA05	2	288937	6282100	Residential	18 Norfolk Place North Richmond	59	54	P	49	43	50	44	3.7	3.8	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA05.RES.0069	NCA05	1	288943	6282085	Residential	20 Norfolk Place North Richmond	59	53	P	47	41	47	41	3.7	3.8	-	-	-	-	-	-	-
NCA05.RES.0069	NCA05	2	288943	6282085	Residential	20 Norfolk Place North Richmond	59	54	P	50	44	50	44	3.7	3.8	-	-	-	-	-	-	-
NCA05.RES.0070	NCA05	1	288952	6282072	Residential	20 Norfolk Place North Richmond	59	53	P	47	41	47	41	3.7	3.8	-	-	-	-	-	-	-
NCA05.RES.0070	NCA05	2	288952	6282072	Residential	20 Norfolk Place North Richmond	59	54	P	50	44	50	44	3.4	3.4	-	-	-	-	-	-	-
NCA05.RES.0071	NCA05	1	288984	6282032	Residential	24 Norfolk Place North Richmond	57	52	P	51	46	53	47	8.8	8.6	-	-	-	-	-	-	-
NCA05.RES.0072	NCA05	1	288959	6282020	Residential	26 Norfolk Place North Richmond	58	53	P	51	45	52	47	9.6	9.5	-	-	-	-	-	-	-
NCA05.RES.0072	NCA05	2	288959	6282020	Residential	26 Norfolk Place North Richmond	58	53	P	52	46	53	47	8.5	8.5	-	-	-	-	-	-	-
NCA05.RES.0073	NCA05	1	288930	6281993	Residential	28A Norfolk Place North Richmond	58	53	P	52	46	53	48	10.1	10	-	-	-	-	-	-	-
NCA05.RES.0073	NCA05	2	288930	6281993	Residential	28A Norfolk Place North Richmond	58	53	P	53	47	54	48	8.8	8.7	-	-	-	-	-	-	-
NCA05.RES.0074	NCA05	1	288918	6281981	Residential	30 Norfolk Place North Richmond	58	53	P	52	47	53	48	10.3	10.2	-	-	-	-	-	-	-
NCA05.RES.0074	NCA05	2	288913	6281981	Residential	30 Norfolk Place North Richmond	58	53	P	53	48	54	48	8.7	8.7	-	-	-	-	-	-	-
NCA05.RES.0075	NCA05	1	288892	6281969	Residential	32 Norfolk Place North Richmond	58	53	P	52	46	53	48	10	9.8	-	-	-	-	-	-	-
NCA05.RES.0075	NCA05	2	288892	6281969	Residential	32 Norfolk Place North Richmond	58	53	P	53	47	54	48	9.3	9.1	-	-	-	-	-	-	-
NCA05.RES.0076	NCA05	1	288871	6281946	Residential	2/34 Norfolk Place North Richmond	57	52	P	52	47	53	48	10	9.8	-	-	-	-	-	-	-
NCA05.RES.0076	NCA05	2	288871	6281946	Residential	2/34 Norfolk Place North Richmond	57	52	P	53	48	54	49	9.4	9.3	-	-	-	-	-	-	-
NCA05.RES.0077	NCA05	1	288855	6281918	Residential	36 Norfolk Place North Richmond	56	51	P	54	48	55	49	11	10.9	-	-	-	-	-	-	-
NCA05.RES.0078	NCA05	1	288825	6281912	Residential	2/38 Norfolk Place North Richmond	57	52	P	48	42	52	47	14.6	14.7	-	-	-	-	-	-	-
NCA05.RES.0078	NCA05	2	288825	6281912	Residential	2/38 Norfolk Place North Richmond	57	52	P	51	45	53	48	11.7	11.8	-	-	-	-	-	-	-
NCA05.RES.0079	NCA05	1	288814	6281887	Residential	2/38 Norfolk Place North Richmond	57	52	P	55	50	56	50	12.1	11.9	-	-	-	-	-	-	-
NCA05.RES.0079	NCA05	2	288814	6281887	Residential	2/38 Norfolk Place North Richmond	57	52	P	56	50	57	51	11.3	11.3	-	-	-	-	-	-	-
NCA05.RES.0080	NCA05	1	288853	6281995	Residential	1 Rosetta Place North Richmond	59	53	P	47	41	47	42	9.2	9.3	-	-	-	-	-	-	-
NCA05.RES.0080	NCA05	2	288853	6281995	Residential	1 Rosetta Place North Richmond	59	54	P	50	44	51	45	7.6	7.6	-	-	-	-	-	-	-
NCA05.RES.0081	NCA05	1	288815	6282041	Residential	2/3 Rosetta Place North Richmond	59	54	P	47	42	48	42	1.8	1.9	-	-	-	-	-	-	-
NCA05.RES.0081	NCA05	2	288815	6282041	Residential	2/3 Rosetta Place North Richmond	60	55	P	50	44	50	45	2.9	2.9	-	-	-	-	-	-	-
NCA05.RES.0082	NCA05	1	288869	6282061	Residential	8/3 Rosetta Place North Richmond	58	53	P	46	41	47	41	5.5	5.6	-	-	-	-	-	-	-
NCA05.RES.0083	NCA05	1	288832	6282027	Residential	1/3 Rosetta Place North Richmond	58	52	P	46	40	46	40	5.9	5.9	-	-	-	-	-	-	-
NCA05.RES.0084	NCA05	1	288850	6282045	Residential	3/3 Rosetta Place North Richmond	58	53	P	46	41	46	41	5.4	5.4	-	-	-	-	-	-	-
NCA05.RES.0085	NCA05	1	288860	6282053	Residential	5/3 Rosetta Place North Richmond	59	53	P	47	41	47	41	5.5	5.5	-	-	-	-	-	-	-
NCA05.RES.0086	NCA05	1	288864	6282088	Residential	7/3 Rosetta Place North Richmond	58	53	P	46	41	46	40	1.3	1.3	-	-	-	-	-	-	-
NCA05.RES.0086	NCA05	2	288859	6282079	Residential	7/3 Rosetta Place North Richmond	60	55	P	49	44	50	44	4.5	4.6	-	-	-	-	-	-	-
NCA05.RES.0087	NCA05	1	288881	6282042	Residential	7 Rosetta Place North Richmond	59	53	P	47	41	47	42	4.7	4.9	-	-	-	-	-	-	-
NCA05.RES.0087	NCA05	2	288881	6282042	Residential	7 Rosetta Place North Richmond	59	54	P	50	44	50	44	4.8	4.9	-	-	-	-	-	-	-
NCA05.RES.0088	NCA05	1	288834	6282013	Residential	2 Rosetta Place North Richmond	57	52	P	45	40	45	39	4.2	4.2	-	-	-	-	-	-	-
NCA05.RES.0089	NCA05	1	288886	6282035	Residential	8 Rosetta Place North Richmond	59	53	P	47	41	47	41	4.7	4.7	-	-	-	-	-	-	-
NCA05.RES.0089	NCA05	2	288886	6282035	Residential	8 Rosetta Place North Richmond	59	54	P	49	44	50	44	4.7	4.7	-	-	-	-	-	-	-
NCA05.RES.0091	NCA05	1	289018	6282121	Residential	42 Terrace Rd North Richmond	59	54	P	49	43	50	45	6.2	6.2	-	-	-	-	-	-	-
NCA05.RES.0092	NCA05	1	288461	6282148	Residential	6 Terrace Road North Richmond	60	55	P	67	61	67	61	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0093	NCA05	1	288479	6282160	Residential	8 Terrace Road North Richmond	60	55	P	67	62	67	61	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0094	NCA05	1	288497	6282150	Residential	12 Terrace Road North Richmond	60	55	P	57	51	56	50	0.2	0.2	-	-	-	-	-	-	-
NCA05.RES.0095	NCA05	1	288495	6282168	Residential	12 Terrace Road North Richmond	60	55	P	66	60	66	60	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0096	NCA05	1	288513	6282176	Residential	14 Terrace Road North Richmond	60	55	P	64	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0097	NCA05	1	288530	6282192	Residential	16 Terrace Road North Richmond	60	55	P	66	61	66	60	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0098	NCA05	1	288517	6282183	Residential	16 Terrace Road North Richmond	60	55	P	67	61	66	60	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0100	NCA05	1	288549	6282200	Residential	20 Terrace Road North Richmond	60	55	P	65	59	64	59	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0101	NCA05	1	288552	6282177	Residential	20A Terrace Road North Richmond	60	55	P	53	47	53	47	0.6	0.6	-	-	-	-	-	-	-
NCA05.RES.0102	NCA05	1	288557	6282209	Residential	22 Terrace Road North Richmond	60	55	P	66	60	66	60	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0103	NCA05	1	288803	6282341	Residential	44 Terrace Road North Richmond	60	55	P	61	55	60	54	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0104	NCA05	1	288823	6282329	Residential	44 Terrace Road North Richmond	60	55	P	57	51	57	51	0.1	0	-	-	-	-	-	-	-
NCA05.RES.0105	NCA05	1	288843	6282303	Residential	48A Terrace Road North Richmond	60	55	P	54	48	53	48	0.2	0.1	-	-	-	-	-	-	-
NCA05.RES.0106	NCA05	1	288913	6282237	Residential	48B Terrace Road North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA05.RES.0106	NCA05	2	288913	6282237	Residential	48B Terrace Road North Richmond	60	55	P	51	45	51	45	0.5	0.5	-	-	-	-	-	-	-
NCA06.OCC.0251	NCA06	1	288296	6281921	Other (Childcare)	33 Riverview Street North Richmond	45	-	H	55	53	55	52	0.7	0.6	-	-	-	-	-	-	-
NCA06.OME.0238	NCA06	1	288402	6281833	Other (Medical)	15 Riverview Street North Richmond	45	-	H	51	49	52	49	3.7	3.7	-	-	Y	-	-	-	Y
NCA06.OME.0240	NCA06	1	288385	6281861	Other (Medical)	19 Riverview Street North Richmond	45	-	H	55	53	55	53	4.4	4.5	-	-	Y	-	-	-	Y
NCA06.OOA.0204	NCA06	1	288043	6281389	Other (Outdoor Active)	90 Keda Circuit North Richmond	60	-	P	38	33	38	32	1.3	1.2	-	-	-	-	-	-	-
NCA06.RES.0001	NCA06	1	288239	6281816	Residential	3 Enfield Avenue North Richmond	60	55	P	50	44	50	44	1	1	-	-	-	-	-	-	-
NCA06.RES.0002	NCA06	1	288219	6281808	Residential	5 Enfield Avenue North Richmond	60	55	P	51	45	51	45	0.6	0.5	-	-	-	-	-	-	-
NCA06.RES.0003	NCA06	1	288210	6281790	Residential	7 Enfield Avenue North Richmond	60	55	P	51	45	50	45	0.6	0.6	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0004	NCA06	1	288192	6281781	Residential	9 Enfield Avenue North Richmond	60	55	P	51	45	51	45	0.5	0.5	-	-	-	-	-	-	-
NCA06.RES.0005	NCA06	1	288178	6281764	Residential	11 Enfield Avenue North Richmond	60	55	P	52	46	51	45	0.5	0.5	-	-	-	-	-	-	-
NCA06.RES.0006	NCA06	1	288166	6281754	Residential	13 Enfield Avenue North Richmond	60	55	P	52	46	51	45	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0007	NCA06	1	288153	6281747	Residential	15 Enfield Avenue North Richmond	60	55	P	52	46	52	46	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0008	NCA06	1	288137	6281732	Residential	17 Enfield Avenue North Richmond	60	55	P	52	46	52	46	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0009	NCA06	1	288128	6281721	Residential	19 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0010	NCA06	1	288115	6281710	Residential	21 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0011	NCA06	1	288100	6281697	Residential	23 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0012	NCA06	1	288081	6281681	Residential	25 Enfield Avenue North Richmond	60	55	P	52	47	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0013	NCA06	1	288070	6281670	Residential	27 Enfield Avenue North Richmond	60	55	P	52	46	51	46	0.3	0.3	-	-	-	-	-	-	-
NCA06.RES.0014	NCA06	1	288057	6281660	Residential	29 Enfield Avenue North Richmond	60	55	P	51	46	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0015	NCA06	1	288044	6281645	Residential	31 Enfield Avenue North Richmond	60	55	P	51	45	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0016	NCA06	1	288032	6281637	Residential	33 Enfield Avenue North Richmond	60	55	P	52	46	51	45	0.3	0.3	-	-	-	-	-	-	-
NCA06.RES.0017	NCA06	1	288017	6281623	Residential	35 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.2	0.2	-	-	-	-	-	-	-
NCA06.RES.0018	NCA06	1	287959	6281568	Residential	37 Enfield Avenue North Richmond	60	55	P	53	47	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0019	NCA06	1	287946	6281558	Residential	39 Enfield Avenue North Richmond	60	55	P	53	48	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0020	NCA06	1	287932	6281547	Residential	41 Enfield Avenue North Richmond	60	55	P	54	48	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0021	NCA06	1	287916	6281533	Residential	43 Enfield Avenue North Richmond	60	55	P	53	47	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0022	NCA06	1	287903	6281522	Residential	45 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0023	NCA06	1	288220	6281871	Residential	2 Enfield Avenue North Richmond	60	55	P	55	49	54	48	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0023	NCA06	2	288203	6281879	Residential	2 Enfield Avenue North Richmond	60	55	P	57	51	57	51	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0024	NCA06	1	288199	6281853	Residential	4 Enfield Avenue North Richmond	60	55	P	51	45	50	44	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0025	NCA06	1	288195	6281846	Residential	6 Enfield Avenue North Richmond	60	55	P	52	46	51	45	0.7	0.7	-	-	-	-	-	-	-
NCA06.RES.0026	NCA06	1	288179	6281837	Residential	8 Enfield Avenue North Richmond	60	55	P	52	46	51	45	0.6	0.6	-	-	-	-	-	-	-
NCA06.RES.0027	NCA06	1	288159	6281824	Residential	10 Enfield Avenue North Richmond	60	55	P	49	43	48	42	0.8	0.8	-	-	-	-	-	-	-
NCA06.RES.0028	NCA06	1	288142	6281810	Residential	12 Enfield Avenue North Richmond	60	55	P	51	46	51	45	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0029	NCA06	1	288133	6281799	Residential	14 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0030	NCA06	1	288128	6281781	Residential	16 Enfield Avenue North Richmond	60	55	P	51	45	51	45	0.7	0.7	-	-	-	-	-	-	-
NCA06.RES.0031	NCA06	1	288105	6281768	Residential	18 Enfield Avenue North Richmond	60	55	P	52	46	51	45	0.3	0.3	-	-	-	-	-	-	-
NCA06.RES.0032	NCA06	1	288082	6281752	Residential	20 Enfield Avenue North Richmond	60	55	P	52	47	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0033	NCA06	1	288073	6281746	Residential	22 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0034	NCA06	1	288062	6281739	Residential	24 Enfield Avenue North Richmond	60	55	P	53	47	53	47	0.2	0.2	-	-	-	-	-	-	-
NCA06.RES.0035	NCA06	1	288048	6281720	Residential	26 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.2	0.2	-	-	-	-	-	-	-
NCA06.RES.0036	NCA06	1	288032	6281722	Residential	28 Enfield Avenue North Richmond	60	55	P	53	47	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0037	NCA06	1	288005	6281700	Residential	30 Enfield Avenue North Richmond	60	55	P	51	45	50	44	0.2	0.2	-	-	-	-	-	-	-
NCA06.RES.0038	NCA06	1	288005	6281687	Residential	32 Enfield Avenue North Richmond	60	55	P	52	46	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0039	NCA06	1	288000	6281679	Residential	34 Enfield Avenue North Richmond	60	55	P	51	45	51	45	0.3	0.3	-	-	-	-	-	-	-
NCA06.RES.0040	NCA06	1	287981	6281660	Residential	36 Enfield Avenue North Richmond	60	55	P	53	47	52	46	0.2	0.2	-	-	-	-	-	-	-
NCA06.RES.0041	NCA06	1	287963	6281640	Residential	38 Enfield Avenue North Richmond	60	55	P	54	48	53	47	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0042	NCA06	1	287918	6281615	Residential	44 Enfield Avenue North Richmond	60	55	P	55	49	54	48	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0043	NCA06	1	287903	6281610	Residential	46 Enfield Avenue North Richmond	60	55	P	56	50	55	50	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0044	NCA06	1	287885	6281596	Residential	48 Enfield Avenue North Richmond	60	55	P	55	49	54	48	0.1	0.1	-	-	-	-	-	-	-
NCA06.RES.0045	NCA06	1	287872	6281590	Residential	50 Enfield Avenue North Richmond	60	55	P	54	48	53	47	0.1	0.1	-	-	-	-	-	-	-
NCA06.RES.0046	NCA06	1	287865	6281565	Residential	52 Enfield Avenue North Richmond	60	55	P	54	48	53	47	0.1	0.1	-	-	-	-	-	-	-
NCA06.RES.0047	NCA06	1	288516	6281765	Residential	1 Flinders Place North Richmond	60	55	P	53	47	53	47	10.3	10.4	-	-	-	-	-	-	-
NCA06.RES.0048	NCA06	1	288529	6281721	Residential	1 Flinders Place North Richmond	60	55	P	52	46	51	46	11.4	11.6	-	-	-	-	-	-	-
NCA06.RES.0049	NCA06	1	288544	6281733	Residential	1 Flinders Place North Richmond	60	55	P	54	48	53	48	13	13.2	-	-	-	-	-	-	-
NCA06.RES.0050	NCA06	1	288514	6281745	Residential	1 Flinders Place North Richmond	60	55	P	52	46	52	46	8.9	9	-	-	-	-	-	-	-
NCA06.RES.0051	NCA06	1	288554	6281723	Residential	8/3 Flinders Place North Richmond	60	55	P	55	50	55	50	13.3	13.2	-	-	-	-	-	-	-
NCA06.RES.0052	NCA06	1	288543	6281686	Residential	3 Flinders Place North Richmond	59	54	P	56	51	57	51	10.7	10.6	-	-	-	-	-	-	-
NCA06.RES.0052	NCA06	2	288543	6281686	Residential	3 Flinders Place North Richmond	59	54	P	58	53	58	52	11.3	10.9	-	-	-	-	-	-	-
NCA06.RES.0053	NCA06	1	288556	6281693	Residential	8/3 Flinders Place North Richmond	59	54	P	57	51	56	51	12	11.8	-	-	-	-	-	-	-
NCA06.RES.0053	NCA06	2	288559	6281699	Residential	8/3 Flinders Place North Richmond	59	54	P	59	54	59	53	12.8	12.5	-	-	-	-	-	-	-
NCA06.RES.0054	NCA06	1	288564	6281708	Residential	8/3 Flinders Place North Richmond	59	54	P	57	52	56	50	10.5	10.4	-	-	-	-	-	-	-
NCA06.RES.0054	NCA06	2	288564	6281708	Residential	8/3 Flinders Place North Richmond	59	54	P	59	53	59	53	12.4	12.3	-	-	-	-	-	-	-
NCA06.RES.0055	NCA06	1	288539	6281707	Residential	3 Flinders Place North Richmond	60	55	P	50	45	50	45	13.3	13.6	-	-	-	-	-	-	-
NCA06.RES.0055	NCA06	2	288539	6281707	Residential	3 Flinders Place North Richmond	60	55	P	55	50	56	50	12.7	12.8	-	-	-	-	-	-	-
NCA06.RES.0056	NCA06	1	288550	6281716	Residential	8/3 Flinders Place North Richmond	60	55	P	52	46	51	46	14.5	14.6	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0056	NCA06	2	288550	6281716	Residential	8/3 Flinders Place North Richmond	60	55	P	57	51	58	52	11.9	12	-	-	-	-	-	-	-
NCA06.RES.0057	NCA06	1	288566	6281630	Residential	13 Flinders Place North Richmond	57	52	P	58	53	56	51	13.6	13.4	-	-	-	-	-	-	-
NCA06.RES.0057	NCA06	2	288566	6281630	Residential	13 Flinders Place North Richmond	57	52	P	59	53	57	51	11.4	11.1	-	-	-	-	-	-	-
NCA06.RES.0058	NCA06	1	288537	6281614	Residential	15 Flinders Place North Richmond	57	52	P	57	51	55	49	11.1	10.9	-	-	-	-	-	-	-
NCA06.RES.0058	NCA06	2	288537	6281614	Residential	15 Flinders Place North Richmond	57	52	P	57	52	56	50	9.5	9.2	-	-	-	-	-	-	-
NCA06.RES.0058	NCA06	3	288545	6281628	Residential	15 Flinders Place North Richmond	57	52	P	57	52	57	52	10	9.8	-	-	-	-	-	-	-
NCA06.RES.0059	NCA06	2	288521	6281613	Residential	17 Flinders Place North Richmond	57	52	P	56	50	55	49	7.9	7.7	-	-	-	-	-	-	-
NCA06.RES.0059	NCA06	3	288521	6281613	Residential	17 Flinders Place North Richmond	57	52	P	57	51	56	51	8.7	8.4	-	-	-	-	-	-	-
NCA06.RES.0060	NCA06	1	288512	6281605	Residential	19 Flinders Place North Richmond	57	52	P	56	51	55	50	8.6	8.3	-	-	-	-	-	-	-
NCA06.RES.0060	NCA06	2	288512	6281605	Residential	19 Flinders Place North Richmond	57	52	P	57	51	56	51	8.9	8.7	-	-	-	-	-	-	-
NCA06.RES.0061	NCA06	1	288510	6281580	Residential	21A Flinders Place North Richmond	56	51	P	57	51	56	50	9.4	9.1	-	-	-	-	-	-	-
NCA06.RES.0061	NCA06	2	288510	6281580	Residential	21A Flinders Place North Richmond	56	51	P	57	52	56	51	9.1	8.9	-	-	-	-	-	-	-
NCA06.RES.0061	NCA06	3	288510	6281580	Residential	21A Flinders Place North Richmond	56	51	P	58	52	57	51	9.2	9	-	-	-	-	-	-	-
NCA06.RES.0062	NCA06	1	288481	6281567	Residential	23 Flinders Place North Richmond	57	52	P	53	47	53	47	7.2	6.9	-	-	-	-	-	-	-
NCA06.RES.0062	NCA06	2	288481	6281567	Residential	23 Flinders Place North Richmond	57	52	P	54	48	53	48	6.6	6.4	-	-	-	-	-	-	-
NCA06.RES.0062	NCA06	3	288481	6281567	Residential	23 Flinders Place North Richmond	57	52	P	55	49	54	49	6.9	6.9	-	-	-	-	-	-	-
NCA06.RES.0063	NCA06	1	288465	6281554	Residential	25A Flinders Place North Richmond	57	52	P	53	48	53	48	7.7	7.6	-	-	-	-	-	-	-
NCA06.RES.0063	NCA06	2	288465	6281554	Residential	25A Flinders Place North Richmond	57	52	P	55	49	54	49	7	6.9	-	-	-	-	-	-	-
NCA06.RES.0063	NCA06	3	288465	6281554	Residential	25A Flinders Place North Richmond	57	52	P	55	50	55	49	7.1	7	-	-	-	-	-	-	-
NCA06.RES.0064	NCA06	1	288463	6281522	Residential	27 Flinders Place North Richmond	55	50	P	53	48	53	47	12.6	12.5	-	-	-	-	-	-	-
NCA06.RES.0064	NCA06	2	288461	6281518	Residential	27 Flinders Place North Richmond	56	51	P	54	49	54	48	9.7	9.5	-	-	-	-	-	-	-
NCA06.RES.0065	NCA06	1	288440	6281535	Residential	27A Flinders Place North Richmond	57	52	P	55	50	55	49	7.6	7.4	-	-	-	-	-	-	-
NCA06.RES.0065	NCA06	2	288447	6281547	Residential	27A Flinders Place North Richmond	57	52	P	56	50	56	50	7.5	7.4	-	-	-	-	-	-	-
NCA06.RES.0066	NCA06	1	288435	6281523	Residential	27A Flinders Place North Richmond	57	52	P	55	49	55	49	7.7	7.5	-	-	-	-	-	-	-
NCA06.RES.0066	NCA06	2	288435	6281523	Residential	27A Flinders Place North Richmond	57	52	P	56	50	55	49	7.7	7.5	-	-	-	-	-	-	-
NCA06.RES.0067	NCA06	1	288382	6281507	Residential	33 Flinders Place North Richmond	58	53	P	52	46	52	47	6.5	6.3	-	-	-	-	-	-	-
NCA06.RES.0067	NCA06	2	288382	6281507	Residential	33 Flinders Place North Richmond	58	53	P	52	47	53	47	6.5	6.3	-	-	-	-	-	-	-
NCA06.RES.0067	NCA06	3	288387	6281511	Residential	33 Flinders Place North Richmond	58	53	P	54	48	54	48	7.1	6.9	-	-	-	-	-	-	-
NCA06.RES.0068	NCA06	1	288403	6281508	Residential	33 Flinders Place North Richmond	57	52	P	54	48	54	48	7.2	7	-	-	-	-	-	-	-
NCA06.RES.0068	NCA06	2	288403	6281508	Residential	33 Flinders Place North Richmond	57	52	P	54	49	54	49	7.2	7	-	-	-	-	-	-	-
NCA06.RES.0069	NCA06	1	288354	6281481	Residential	35 Flinders Place North Richmond	57	52	P	52	47	53	47	7.6	7.4	-	-	-	-	-	-	-
NCA06.RES.0069	NCA06	2	288354	6281481	Residential	35 Flinders Place North Richmond	57	52	P	53	47	53	48	7.6	7.4	-	-	-	-	-	-	-
NCA06.RES.0070	NCA06	1	288321	6281467	Residential	37A Flinders Place North Richmond	57	52	P	52	47	53	47	7.6	7.5	-	-	-	-	-	-	-
NCA06.RES.0070	NCA06	2	288321	6281467	Residential	37A Flinders Place North Richmond	57	52	P	53	47	53	48	7.3	7.2	-	-	-	-	-	-	-
NCA06.RES.0071	NCA06	1	288349	6281444	Residential	37B Flinders Place North Richmond	56	51	P	52	46	52	47	8.2	8.1	-	-	-	-	-	-	-
NCA06.RES.0071	NCA06	2	288349	6281444	Residential	37B Flinders Place North Richmond	56	51	P	53	47	53	47	8	7.8	-	-	-	-	-	-	-
NCA06.RES.0071	NCA06	3	288349	6281444	Residential	37B Flinders Place North Richmond	56	51	P	53	48	53	48	7.8	7.7	-	-	-	-	-	-	-
NCA06.RES.0072	NCA06	1	288370	6281555	Residential	39 Flinders Place North Richmond	58	53	P	51	46	52	46	5.8	5.6	-	-	-	-	-	-	-
NCA06.RES.0072	NCA06	2	288370	6281545	Residential	39 Flinders Place North Richmond	58	53	P	54	48	54	49	7.7	7.4	-	-	-	-	-	-	-
NCA06.RES.0073	NCA06	1	288365	6281569	Residential	41 Flinders Place North Richmond	59	54	P	51	45	52	46	5.3	5.2	-	-	-	-	-	-	-
NCA06.RES.0074	NCA06	1	288350	6281586	Residential	43 Flinders Place North Richmond	60	55	P	51	45	52	46	3.9	3.8	-	-	-	-	-	-	-
NCA06.RES.0074	NCA06	2	288350	6281586	Residential	43 Flinders Place North Richmond	60	55	P	54	48	54	48	4.8	4.8	-	-	-	-	-	-	-
NCA06.RES.0075	NCA06	1	288333	6281602	Residential	45 Flinders Place North Richmond	60	55	P	51	45	50	45	3.6	3.4	-	-	-	-	-	-	-
NCA06.RES.0075	NCA06	2	288333	6281602	Residential	45 Flinders Place North Richmond	60	55	P	53	47	53	47	4.5	4.5	-	-	-	-	-	-	-
NCA06.RES.0076	NCA06	1	288312	6281619	Residential	47 Flinders Place North Richmond	60	54	P	48	42	48	42	3.2	3.3	-	-	-	-	-	-	-
NCA06.RES.0077	NCA06	1	288297	6281637	Residential	1/49 Flinders Place North Richmond	60	54	P	48	42	48	43	3.7	3.8	-	-	-	-	-	-	-
NCA06.RES.0077	NCA06	2	288297	6281637	Residential	1/49 Flinders Place North Richmond	60	55	P	51	46	52	46	3	3	-	-	-	-	-	-	-
NCA06.RES.0078	NCA06	1	288269	6281633	Residential	1/49 Flinders Place North Richmond	59	54	P	47	42	47	41	2	2	-	-	-	-	-	-	-
NCA06.RES.0079	NCA06	1	288288	6281649	Residential	51 Flinders Place North Richmond	60	54	P	48	42	48	43	3.6	3.7	-	-	-	-	-	-	-
NCA06.RES.0080	NCA06	1	288299	6281668	Residential	53 Flinders Place North Richmond	59	54	P	47	42	48	42	5.4	5.5	-	-	-	-	-	-	-
NCA06.RES.0081	NCA06	1	288314	6281688	Residential	55 Flinders Place North Richmond	60	55	P	49	43	49	43	3.4	3.5	-	-	-	-	-	-	-
NCA06.RES.0082	NCA06	1	288331	6281698	Residential	57 Flinders Place North Richmond	60	55	P	49	43	49	43	3.7	3.7	-	-	-	-	-	-	-
NCA06.RES.0083	NCA06	1	288338	6281716	Residential	59 Flinders Place North Richmond	60	55	P	49	43	49	43	3.5	3.6	-	-	-	-	-	-	-
NCA06.RES.0084	NCA06	1	288358	6281721	Residential	61 Flinders Place North Richmond	60	54	P	48	42	49	43	5.6	5.6	-	-	-	-	-	-	-
NCA06.RES.0085	NCA06	1	288379	6281773	Residential	63A Flinders Place North Richmond	60	55	P	49	44	50	44	3.3	3.2	-	-	-	-	-	-	-
NCA06.RES.0086	NCA06	1	288371	6281746	Residential	63 Flinders Place North Richmond	60	55	P	48	43	49	43	4.8	4.9	-	-	-	-	-	-	-
NCA06.RES.0086	NCA06	2	288366	6281752	Residential	63 Flinders Place North Richmond	60	55	P	52	46	52	46	3.2	3.2	-	-	-	-	-	-	-
NCA06.RES.0087	NCA06	1	288409	6281750	Residential	65 Flinders Place North Richmond	60	55	P	50	44	50	44	4	4.1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0088	NCA06	1	288413	6281767	Residential	65 Flinders Place North Richmond	60	55	P	49	44	49	44	4.3	4.3	-	-	-	-	-	-	-
NCA06.RES.0089	NCA06	1	288483	6281707	Residential	2 Flinders Place North Richmond	60	55	P	55	49	55	49	7.7	7.5	-	-	-	-	-	-	-
NCA06.RES.0090	NCA06	1	288489	6281693	Residential	4 Flinders Place North Richmond	60	55	P	55	49	55	50	9.3	9	-	-	-	-	-	-	-
NCA06.RES.0090	NCA06	2	288489	6281693	Residential	4 Flinders Place North Richmond	60	55	P	57	51	57	51	9.5	9.3	-	-	-	-	-	-	-
NCA06.RES.0091	NCA06	1	288520	6281671	Residential	6 Flinders Place North Richmond	59	54	P	57	51	57	51	10	9.9	-	-	-	-	-	-	-
NCA06.RES.0091	NCA06	2	288519	6281664	Residential	6 Flinders Place North Richmond	59	54	P	59	53	58	52	10.5	10.2	-	-	-	-	-	-	-
NCA06.RES.0092	NCA06	1	288489	6281642	Residential	8 Flinders Place North Richmond	59	54	P	55	49	56	50	9.6	9.1	-	-	-	-	-	-	-
NCA06.RES.0092	NCA06	2	288489	6281642	Residential	8 Flinders Place North Richmond	59	54	P	57	52	57	51	9.5	9.3	-	-	-	-	-	-	-
NCA06.RES.0093	NCA06	1	288433	6281598	Residential	18 Flinders Place North Richmond	59	54	P	53	47	54	48	7.7	7.5	-	-	-	-	-	-	-
NCA06.RES.0093	NCA06	2	288433	6281598	Residential	18 Flinders Place North Richmond	59	54	P	55	49	56	50	7.7	7.7	-	-	-	-	-	-	-
NCA06.RES.0094	NCA06	1	288415	6281580	Residential	20A Flinders Place North Richmond	58	53	P	54	48	54	49	6.9	6.8	-	-	-	-	-	-	-
NCA06.RES.0094	NCA06	2	288415	6281580	Residential	20A Flinders Place North Richmond	58	53	P	55	49	55	50	7.6	7.3	-	-	-	-	-	-	-
NCA06.RES.0095	NCA06	1	288397	6281607	Residential	22 Flinders Place North Richmond	59	54	P	50	44	51	45	7.9	8	-	-	-	-	-	-	-
NCA06.RES.0095	NCA06	2	288397	6281607	Residential	22 Flinders Place North Richmond	59	54	P	54	49	55	49	5.9	5.9	-	-	-	-	-	-	-
NCA06.RES.0096	NCA06	1	288382	6281623	Residential	24 Flinders Place North Richmond	60	55	P	50	44	52	46	10	9.9	-	-	-	-	-	-	-
NCA06.RES.0096	NCA06	2	288382	6281623	Residential	24 Flinders Place North Richmond	60	55	P	54	48	54	49	6.6	6.6	-	-	-	-	-	-	-
NCA06.RES.0097	NCA06	1	288378	6281638	Residential	26 Flinders Place North Richmond	60	55	P	53	47	53	48	5.7	5.7	-	-	-	-	-	-	-
NCA06.RES.0098	NCA06	1	288359	6281656	Residential	28 Flinders Place North Richmond	60	55	P	51	46	51	46	5.3	5.1	-	-	-	-	-	-	-
NCA06.RES.0099	NCA06	1	288373	6281681	Residential	30 Flinders Place North Richmond	60	55	P	49	43	49	44	4.7	4.9	-	-	-	-	-	-	-
NCA06.RES.0100	NCA06	1	288395	6281678	Residential	32 Flinders Place North Richmond	60	55	P	53	47	53	47	5.4	5.3	-	-	-	-	-	-	-
NCA06.RES.0101	NCA06	1	288414	6281701	Residential	34 Flinders Place North Richmond	60	55	P	50	44	50	45	5.4	5.4	-	-	-	-	-	-	-
NCA06.RES.0102	NCA06	1	288422	6281742	Residential	36 Flinders Place North Richmond	60	55	P	49	44	49	43	4.2	4.2	-	-	-	-	-	-	-
NCA06.RES.0103	NCA06	1	288259	6281986	Residential	13 Grose Vale Road North Richmond	60	55	P	70	64	69	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0104	NCA06	1	288278	6281973	Residential	13 Grose Vale Road North Richmond	60	55	P	61	56	61	56	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0105	NCA06	1	288243	6281978	Residential	15 Grose Vale Road North Richmond	60	55	P	71	66	71	65	0	0	-	-	-	-	-	-	-
NCA06.RES.0106	NCA06	1	288250	6281942	Residential	17 Grose Vale Road North Richmond	60	55	P	55	49	54	49	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0107	NCA06	1	288236	6281966	Residential	17 Grose Vale Road North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA06.RES.0107	NCA06	2	288236	6281966	Residential	17 Grose Vale Road North Richmond	60	55	P	69	63	69	63	0	0	-	-	-	-	-	-	-
NCA06.RES.0108	NCA06	1	288227	6281947	Residential	19 Grose Vale Road North Richmond	60	55	P	65	59	64	59	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0109	NCA06	1	288172	6281911	Residential	23 Grose Vale Road North Richmond	60	55	P	70	65	70	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0110	NCA06	1	288172	6281893	Residential	25 Grose Vale Road North Richmond	60	55	P	63	57	63	57	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0111	NCA06	1	288151	6281890	Residential	27 Grose Vale Road North Richmond	60	55	P	70	64	69	63	0	0	-	-	-	-	-	-	-
NCA06.RES.0112	NCA06	1	288134	6281876	Residential	29 Grose Vale Road North Richmond	60	55	P	70	64	69	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0112	NCA06	2	288134	6281876	Residential	29 Grose Vale Road North Richmond	60	55	P	70	64	69	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0113	NCA06	1	288123	6281868	Residential	29 Grose Vale Road North Richmond	60	55	P	71	65	70	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0113	NCA06	2	288123	6281868	Residential	29 Grose Vale Road North Richmond	60	55	P	71	65	70	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0114	NCA06	1	288147	6281845	Residential	29 Grose Vale Road North Richmond	60	55	P	52	46	51	46	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0114	NCA06	2	288139	6281847	Residential	29 Grose Vale Road North Richmond	60	55	P	54	48	54	48	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0115	NCA06	1	288139	6281853	Residential	29 Grose Vale Road North Richmond	60	55	P	55	49	54	48	0.1	0.1	-	-	-	-	-	-	-
NCA06.RES.0116	NCA06	1	288124	6281827	Residential	33 Grose Vale Road North Richmond	60	55	P	55	49	54	48	0.1	0.1	-	-	-	-	-	-	-
NCA06.RES.0117	NCA06	1	288116	6281861	Residential	33 Grose Vale Road North Richmond	60	55	P	70	64	69	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0118	NCA06	1	288107	6281852	Residential	33 Grose Vale Road North Richmond	60	55	P	70	64	69	63	0	0	-	-	-	-	-	-	-
NCA06.RES.0118	NCA06	2	288107	6281852	Residential	33 Grose Vale Road North Richmond	60	55	P	70	64	69	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0119	NCA06	1	288100	6281830	Residential	35 Grose Vale Road North Richmond	60	55	P	63	58	63	57	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0120	NCA06	1	288087	6281812	Residential	37 Grose Vale Road North Richmond	60	55	P	57	51	56	50	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0121	NCA06	1	288103	6281810	Residential	37 Grose Vale Road North Richmond	60	55	P	51	46	51	45	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0122	NCA06	1	288088	6281810	Residential	37 Grose Vale Road North Richmond	60	55	P	58	52	57	51	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0122	NCA06	2	288088	6281810	Residential	37 Grose Vale Road North Richmond	60	55	P	60	54	59	53	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0123	NCA06	1	288082	6281828	Residential	37 Grose Vale Road North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA06.RES.0123	NCA06	2	288082	6281828	Residential	37 Grose Vale Road North Richmond	60	55	P	69	64	69	63	0	0	-	-	-	-	-	-	-
NCA06.RES.0124	NCA06	1	288096	6281800	Residential	37 Grose Vale Road North Richmond	60	55	P	55	49	54	48	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0124	NCA06	2	288096	6281800	Residential	37 Grose Vale Road North Richmond	60	55	P	57	51	56	50	0.1	0.1	-	-	-	-	-	-	-
NCA06.RES.0125	NCA06	1	288072	6281804	Residential	39 Grose Vale Road North Richmond	60	55	P	63	57	62	56	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0126	NCA06	1	288050	6281803	Residential	41 Grose Vale Road North Richmond	60	55	P	70	64	69	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0126	NCA06	2	288050	6281803	Residential	41 Grose Vale Road North Richmond	60	55	P	70	64	69	64	0	0	-	-	-	-	-	-	-
NCA06.RES.0127	NCA06	1	288046	6281779	Residential	43 Grose Vale Road North Richmond	60	55	P	64	58	63	57	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0128	NCA06	1	288031	6281767	Residential	45 Grose Vale Road North Richmond	60	55	P	64	59	64	58	0	0	-	-	-	-	-	-	-
NCA06.RES.0129	NCA06	1	288017	6281757	Residential	47 Grose Vale Road North Richmond	60	55	P	63	58	63	57	0.1	0	-	-	-	-	-	-	-

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										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0130	NCA06	1	288005	6281744	Residential	49 Grose Vale Road North Richmond	60	55	P	62	57	62	56	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0131	NCA06	1	287982	6281741	Residential	51 Grose Vale Road North Richmond	60	55	P	68	63	68	62	0	0	-	-	-	-	-	-	-
NCA06.RES.0131	NCA06	2	287982	6281741	Residential	51 Grose Vale Road North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA06.RES.0132	NCA06	1	287996	6281717	Residential	51 Grose Vale Road North Richmond	60	55	P	55	49	54	48	0.1	0.1	-	-	-	-	-	-	-
NCA06.RES.0133	NCA06	1	287979	6281718	Residential	53 Grose Vale Road North Richmond	60	55	P	61	55	61	55	0	0	-	-	-	-	-	-	-
NCA06.RES.0133	NCA06	2	287979	6281718	Residential	53 Grose Vale Road North Richmond	60	55	P	62	57	62	56	0	0	-	-	-	-	-	-	-
NCA06.RES.0134	NCA06	1	287953	6281717	Residential	55 Grose Vale Road North Richmond	60	55	P	68	63	68	62	0	0	-	-	-	-	-	-	-
NCA06.RES.0135	NCA06	1	287983	6281699	Residential	55 Grose Vale Road North Richmond	60	55	P	54	48	54	48	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0136	NCA06	1	287936	6281711	Residential	57 Grose Vale Road North Richmond	60	55	P	72	67	72	66	0	0	-	-	-	-	-	-	-
NCA06.RES.0136	NCA06	2	287936	6281711	Residential	57 Grose Vale Road North Richmond	60	55	P	72	66	71	66	0	0	-	-	-	-	-	-	-
NCA06.RES.0137	NCA06	1	287932	6281682	Residential	59 Grose Vale Road North Richmond	60	55	P	63	57	62	56	0	0	-	-	-	-	-	-	-
NCA06.RES.0138	NCA06	1	287916	6281666	Residential	61 Grose Vale Road North Richmond	60	55	P	62	56	61	55	0	0	-	-	-	-	-	-	-
NCA06.RES.0139	NCA06	1	287929	6281648	Residential	61 Grose Vale Road North Richmond	60	55	P	55	49	54	48	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0140	NCA06	1	287909	6281680	Residential	61 Grose Vale Road North Richmond	60	55	P	70	64	69	63	0	0	-	-	-	-	-	-	-
NCA06.RES.0141	NCA06	1	287906	6281658	Residential	63 Grose Vale Road North Richmond	60	55	P	64	58	63	58	0	0	-	-	-	-	-	-	-
NCA06.RES.0142	NCA06	1	287900	6281641	Residential	65 Grose Vale Road North Richmond	60	55	P	62	56	62	56	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0143	NCA06	1	287874	6281636	Residential	67 Grose Vale Road North Richmond	60	55	P	66	60	65	59	0	0	-	-	-	-	-	-	-
NCA06.RES.0144	NCA06	1	287867	6281628	Residential	69 Grose Vale Road North Richmond	60	55	P	66	60	65	59	0	0	-	-	-	-	-	-	-
NCA06.RES.0144	NCA06	2	287867	6281628	Residential	69 Grose Vale Road North Richmond	60	55	P	67	61	66	60	0	0	-	-	-	-	-	-	-
NCA06.RES.0145	NCA06	1	287841	6281620	Residential	71 Grose Vale Road North Richmond	60	55	P	69	63	69	63	0	0	-	-	-	-	-	-	-
NCA06.RES.0146	NCA06	1	287837	6281599	Residential	73 Grose Vale Road North Richmond	60	55	P	64	58	63	57	0	0	-	-	-	-	-	-	-
NCA06.RES.0147	NCA06	1	288109	6281518	Residential	1 Keda Circuit North Richmond	60	55	P	49	43	49	43	0.7	0.7	-	-	-	-	-	-	-
NCA06.RES.0148	NCA06	1	288125	6281522	Residential	3 Keda Circuit North Richmond	60	55	P	49	43	49	43	0.8	0.8	-	-	-	-	-	-	-
NCA06.RES.0149	NCA06	1	288142	6281542	Residential	5 Keda Circuit North Richmond	60	55	P	50	44	49	43	0.8	0.7	-	-	-	-	-	-	-
NCA06.RES.0150	NCA06	1	288157	6281551	Residential	7 Keda Circuit North Richmond	60	55	P	49	43	49	43	0.8	0.7	-	-	-	-	-	-	-
NCA06.RES.0151	NCA06	1	288189	6281560	Residential	9 Keda Circuit North Richmond	60	54	P	48	42	48	42	2.7	2.7	-	-	-	-	-	-	-
NCA06.RES.0151	NCA06	2	288189	6281560	Residential	9 Keda Circuit North Richmond	60	55	P	51	45	51	46	2.1	2	-	-	-	-	-	-	-
NCA06.RES.0152	NCA06	1	288190	6281582	Residential	11 Keda Circuit North Richmond	60	55	P	50	44	50	44	3.7	3.7	-	-	-	-	-	-	-
NCA06.RES.0153	NCA06	1	288211	6281602	Residential	13 Keda Circuit North Richmond	60	55	P	49	43	50	44	3.3	3.3	-	-	-	-	-	-	-
NCA06.RES.0154	NCA06	1	288222	6281616	Residential	15 Keda Circuit North Richmond	60	55	P	49	43	49	44	3.4	3.4	-	-	-	-	-	-	-
NCA06.RES.0155	NCA06	1	288254	6281643	Residential	17 Keda Circuit North Richmond	60	54	P	48	42	48	42	2.7	2.8	-	-	-	-	-	-	-
NCA06.RES.0156	NCA06	1	288246	6281621	Residential	17 Keda Circuit North Richmond	60	55	P	48	43	49	43	2.8	2.9	-	-	-	-	-	-	-
NCA06.RES.0157	NCA06	1	288279	6281594	Residential	21 Keda Circuit North Richmond	60	54	P	48	42	48	42	3.6	3.6	-	-	-	-	-	-	-
NCA06.RES.0158	NCA06	1	288299	6281567	Residential	23 Keda Circuit North Richmond	60	54	P	48	42	48	43	4.5	4.5	-	-	-	-	-	-	-
NCA06.RES.0159	NCA06	1	288322	6281535	Residential	25 Keda Circuit North Richmond	58	53	P	48	42	48	43	5.4	5.3	-	-	-	-	-	-	-
NCA06.RES.0160	NCA06	1	288332	6281523	Residential	27 Keda Circuit North Richmond	58	53	P	52	46	52	46	5.6	5.5	-	-	-	-	-	-	-
NCA06.RES.0161	NCA06	1	288320	6281509	Residential	27 Keda Circuit North Richmond	58	53	P	52	47	53	47	6.9	6.8	-	-	-	-	-	-	-
NCA06.RES.0161	NCA06	2	288320	6281509	Residential	27 Keda Circuit North Richmond	58	53	P	53	47	53	48	6.7	6.6	-	-	-	-	-	-	-
NCA06.RES.0162	NCA06	1	288261	6281401	Residential	33 Keda Circuit North Richmond	58	53	P	53	47	53	47	7.5	7.4	-	-	-	-	-	-	-
NCA06.RES.0162	NCA06	2	288261	6281401	Residential	33 Keda Circuit North Richmond	58	53	P	53	48	53	48	6.9	6.9	-	-	-	-	-	-	-
NCA06.RES.0163	NCA06	1	288240	6281382	Residential	35 Keda Circuit North Richmond	58	53	P	52	47	53	47	7.4	7.3	-	-	-	-	-	-	-
NCA06.RES.0163	NCA06	2	288240	6281382	Residential	35 Keda Circuit North Richmond	58	53	P	53	47	53	47	7	6.9	-	-	-	-	-	-	-
NCA06.RES.0164	NCA06	1	288226	6281369	Residential	37 Keda Circuit North Richmond	58	53	P	52	46	53	47	7.6	7.3	-	-	-	-	-	-	-
NCA06.RES.0164	NCA06	2	288226	6281369	Residential	37 Keda Circuit North Richmond	58	53	P	52	47	53	47	7	6.9	-	-	-	-	-	-	-
NCA06.RES.0165	NCA06	1	288212	6281355	Residential	39 Keda Circuit North Richmond	58	53	P	52	46	52	47	7.3	7.1	-	-	-	-	-	-	-
NCA06.RES.0165	NCA06	2	288212	6281355	Residential	39 Keda Circuit North Richmond	58	53	P	52	47	53	47	6.7	6.6	-	-	-	-	-	-	-
NCA06.RES.0166	NCA06	1	288191	6281338	Residential	41 Keda Circuit North Richmond	58	53	P	51	45	51	46	6.7	6.5	-	-	-	-	-	-	-
NCA06.RES.0166	NCA06	2	288191	6281338	Residential	41 Keda Circuit North Richmond	58	53	P	52	46	52	47	6.9	6.9	-	-	-	-	-	-	-
NCA06.RES.0167	NCA06	1	288169	6281317	Residential	43 Keda Circuit North Richmond	58	53	P	51	45	51	46	6.9	6.8	-	-	-	-	-	-	-
NCA06.RES.0167	NCA06	2	288169	6281317	Residential	43 Keda Circuit North Richmond	58	53	P	51	46	52	46	6.5	6.4	-	-	-	-	-	-	-
NCA06.RES.0168	NCA06	1	288170	6281302	Residential	45 Keda Circuit North Richmond	58	53	P	51	45	51	46	7.3	7.1	-	-	-	-	-	-	-
NCA06.RES.0168	NCA06	2	288170	6281302	Residential	45 Keda Circuit North Richmond	58	53	P	51	46	52	46	6.9	6.7	-	-	-	-	-	-	-
NCA06.RES.0169	NCA06	1	288145	6281285	Residential	47 Keda Circuit North Richmond	58	53	P	50	44	50	45	6.9	6.9	-	-	-	-	-	-	-
NCA06.RES.0169	NCA06	2	288145	6281285	Residential	47 Keda Circuit North Richmond	58	53	P	51	45	51	45	6.7	6.6	-	-	-	-	-	-	-
NCA06.RES.0170	NCA06	1	288130	6281275	Residential	49 Keda Circuit North Richmond	58	53	P	49	44	50	44	6.3	6.2	-	-	-	-	-	-	-
NCA06.RES.0171	NCA06	1	288114	6281263	Residential	51 Keda Circuit North Richmond	58	52	P	46	40	46	40	4.6	4.6	-	-	-	-	-	-	-
NCA06.RES.0171	NCA06	2	288114	6281263	Residential	51 Keda Circuit North Richmond	58	53	P	49	44	50	44	5.9	5.8	-	-	-	-	-	-	-
NCA06.RES.0172	NCA06	1	288093	6281251	Residential	53 Keda Circuit North Richmond	58	53	P	46	41	47	41	4.5	4.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0172	NCA06	2	288101	6281254	Residential	53 Keda Circuit North Richmond	58	53	P	49	43	49	43	5.6	5.4	-	-	-	-	-	-	-
NCA06.RES.0173	NCA06	1	288099	6281237	Residential	55 Keda Circuit North Richmond	58	53	P	48	42	48	42	5.4	5.3	-	-	-	-	-	-	-
NCA06.RES.0174	NCA06	1	287924	6281488	Residential	135 Keda Circuit North Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0175	NCA06	1	287943	6281495	Residential	137 Keda Circuit North Richmond	60	55	P	50	45	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0176	NCA06	1	287956	6281503	Residential	139 Keda Circuit North Richmond	60	55	P	50	44	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0177	NCA06	1	287956	6281534	Residential	141B Keda Circuit North Richmond	60	55	P	52	46	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0178	NCA06	1	287977	6281497	Residential	141A Keda Circuit North Richmond	60	55	P	48	43	49	43	1.2	1.1	-	-	-	-	-	-	-
NCA06.RES.0179	NCA06	1	287981	6281547	Residential	143 Keda Circuit North Richmond	60	55	P	51	45	50	44	0.3	0.3	-	-	-	-	-	-	-
NCA06.RES.0180	NCA06	1	288001	6281510	Residential	145 Keda Circuit North Richmond	60	54	P	48	42	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA06.RES.0181	NCA06	1	288054	6281514	Residential	147 Keda Circuit North Richmond	60	54	P	48	42	48	42	1	0.9	-	-	-	-	-	-	-
NCA06.RES.0182	NCA06	1	288147	6281478	Residential	2 Keda Circuit North Richmond	60	54	P	48	42	48	42	0.7	0.7	-	-	-	-	-	-	-
NCA06.RES.0183	NCA06	1	288179	6281480	Residential	4 Keda Circuit North Richmond	60	55	P	49	43	50	44	3.1	3	-	-	-	-	-	-	-
NCA06.RES.0184	NCA06	1	288188	6281480	Residential	6 Keda Circuit North Richmond	60	55	P	50	45	50	45	4.6	4.5	-	-	-	-	-	-	-
NCA06.RES.0185	NCA06	1	288203	6281503	Residential	8 Keda Circuit North Richmond	59	54	P	47	42	49	43	7	6.9	-	-	-	-	-	-	-
NCA06.RES.0185	NCA06	2	288207	6281511	Residential	8 Keda Circuit North Richmond	60	55	P	53	47	53	48	4.6	4.6	-	-	-	-	-	-	-
NCA06.RES.0186	NCA06	1	288220	6281517	Residential	10 Keda Circuit North Richmond	60	55	P	49	43	50	44	5.1	5.1	-	-	-	-	-	-	-
NCA06.RES.0187	NCA06	1	288234	6281528	Residential	12 Keda Circuit North Richmond	60	55	P	51	46	51	46	4.8	4.7	-	-	-	-	-	-	-
NCA06.RES.0188	NCA06	1	288255	6281542	Residential	14A Keda Circuit North Richmond	60	55	P	52	46	52	46	4.6	4.4	-	-	-	-	-	-	-
NCA06.RES.0189	NCA06	1	288246	6281555	Residential	14 Keda Circuit North Richmond	60	55	P	52	46	52	47	4.5	4.5	-	-	-	-	-	-	-
NCA06.RES.0189	NCA06	2	288246	6281555	Residential	14 Keda Circuit North Richmond	60	55	P	53	48	53	48	4.3	4.3	-	-	-	-	-	-	-
NCA06.RES.0190	NCA06	1	288266	6281491	Residential	16 Keda Circuit North Richmond	59	54	P	53	47	53	47	6.2	6.1	-	-	-	-	-	-	-
NCA06.RES.0191	NCA06	1	288262	6281472	Residential	18 Keda Circuit North Richmond	59	54	P	53	47	53	47	6.7	6.5	-	-	-	-	-	-	-
NCA06.RES.0192	NCA06	1	288254	6281457	Residential	20 Keda Circuit North Richmond	59	54	P	53	47	53	47	6.9	6.8	-	-	-	-	-	-	-
NCA06.RES.0193	NCA06	1	288234	6281436	Residential	22 Keda Circuit North Richmond	59	54	P	52	47	53	47	7.3	7.2	-	-	-	-	-	-	-
NCA06.RES.0194	NCA06	1	288216	6281424	Residential	24 Keda Circuit North Richmond	59	54	P	51	46	52	46	9.6	9.6	-	-	-	-	-	-	-
NCA06.RES.0194	NCA06	2	288218	6281435	Residential	24 Keda Circuit North Richmond	59	54	P	52	47	53	47	6.2	6.2	-	-	-	-	-	-	-
NCA06.RES.0195	NCA06	1	288199	6281413	Residential	26 Keda Circuit North Richmond	59	54	P	49	44	49	44	7.1	7.1	-	-	-	-	-	-	-
NCA06.RES.0196	NCA06	1	288116	6281353	Residential	30 Keda Circuit North Richmond	54	48	P	42	36	42	36	1	1	-	-	-	-	-	-	-
NCA06.RES.0196	NCA06	2	288116	6281353	Residential	30 Keda Circuit North Richmond	57	51	P	45	39	45	39	1.8	1.8	-	-	-	-	-	-	-
NCA06.RES.0197	NCA06	1	288099	6281343	Residential	32 Keda Circuit North Richmond	54	48	P	42	36	42	36	0.9	0.9	-	-	-	-	-	-	-
NCA06.RES.0197	NCA06	2	288109	6281332	Residential	32 Keda Circuit North Richmond	56	51	P	44	39	44	38	2.1	2	-	-	-	-	-	-	-
NCA06.RES.0198	NCA06	1	288077	6281309	Residential	36 Keda Circuit North Richmond	52	47	P	40	35	40	34	1.1	1	-	-	-	-	-	-	-
NCA06.RES.0198	NCA06	2	288077	6281309	Residential	36 Keda Circuit North Richmond	55	50	P	43	38	43	37	1.8	1.8	-	-	-	-	-	-	-
NCA06.RES.0199	NCA06	1	288071	6281295	Residential	38 Keda Circuit North Richmond	52	46	P	40	34	40	34	2.9	3	-	-	-	-	-	-	-
NCA06.RES.0199	NCA06	2	288071	6281295	Residential	38 Keda Circuit North Richmond	54	49	P	42	37	42	36	2.6	2.6	-	-	-	-	-	-	-
NCA06.RES.0200	NCA06	1	287970	6281428	Residential	82 Keda Circuit North Richmond	53	47	P	41	35	41	35	1.6	1.5	-	-	-	-	-	-	-
NCA06.RES.0201	NCA06	1	287984	6281439	Residential	84 Keda Circuit North Richmond	54	48	P	42	36	43	37	3.5	3.4	-	-	-	-	-	-	-
NCA06.RES.0201	NCA06	2	287973	6281430	Residential	84 Keda Circuit North Richmond	57	51	P	45	39	45	39	2.3	2.2	-	-	-	-	-	-	-
NCA06.RES.0201	NCA06	3	287973	6281430	Residential	84 Keda Circuit North Richmond	59	53	P	47	41	47	41	2.1	2	-	-	-	-	-	-	-
NCA06.RES.0202	NCA06	1	288003	6281435	Residential	86 Keda Circuit North Richmond	54	49	P	42	37	42	37	2.2	2.2	-	-	-	-	-	-	-
NCA06.RES.0202	NCA06	2	288006	6281442	Residential	86 Keda Circuit North Richmond	57	52	P	45	40	46	40	2.4	2.3	-	-	-	-	-	-	-
NCA06.RES.0203	NCA06	1	288015	6281435	Residential	88 Keda Circuit North Richmond	54	49	P	42	37	42	36	1.1	1	-	-	-	-	-	-	-
NCA06.RES.0203	NCA06	2	288015	6281435	Residential	88 Keda Circuit North Richmond	56	51	P	44	39	45	39	1.8	1.7	-	-	-	-	-	-	-
NCA06.RES.0205	NCA06	1	288050	6281466	Residential	92 Keda Circuit North Richmond	56	50	P	44	38	44	38	0.9	0.9	-	-	-	-	-	-	-
NCA06.RES.0205	NCA06	2	288049	6281452	Residential	92 Keda Circuit North Richmond	58	52	P	46	40	46	40	1	1	-	-	-	-	-	-	-
NCA06.RES.0206	NCA06	1	288073	6281483	Residential	94 Keda Circuit North Richmond	59	54	P	47	42	47	41	0.8	0.7	-	-	-	-	-	-	-
NCA06.RES.0206	NCA06	2	288073	6281483	Residential	94 Keda Circuit North Richmond	60	55	P	49	43	49	43	0.8	0.8	-	-	-	-	-	-	-
NCA06.RES.0207	NCA06	1	287972	6281595	Residential	2 Matheson Avenue North Richmond	60	55	P	54	48	53	47	0.1	0	-	-	-	-	-	-	-
NCA06.RES.0208	NCA06	1	288003	6281574	Residential	6 Matheson Avenue North Richmond	60	55	P	52	46	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0209	NCA06	1	288009	6281557	Residential	8 Matheson Avenue North Richmond	60	55	P	49	43	49	43	0.4	0.4	-	-	-	-	-	-	-
NCA06.RES.0210	NCA06	1	288023	6281546	Residential	10 Matheson Avenue North Richmond	60	55	P	49	44	49	43	0.4	0.4	-	-	-	-	-	-	-
NCA06.RES.0211	NCA06	1	288044	6281529	Residential	12 Matheson Avenue North Richmond	60	55	P	49	43	48	42	0.9	0.9	-	-	-	-	-	-	-
NCA06.RES.0212	NCA06	1	288089	6281455	Residential	18 Matheson Avenue North Richmond	56	50	P	44	38	44	38	0.6	0.6	-	-	-	-	-	-	-
NCA06.RES.0212	NCA06	2	288102	6281465	Residential	18 Matheson Avenue North Richmond	59	53	P	47	41	47	41	1.5	1.5	-	-	-	-	-	-	-
NCA06.RES.0213	NCA06	1	288116	6281451	Residential	20 Matheson Avenue North Richmond	55	50	P	43	38	43	38	2	2	-	-	-	-	-	-	-
NCA06.RES.0213	NCA06	2	288123	6281445	Residential	20 Matheson Avenue North Richmond	58	52	P	46	40	46	40	2.2	2.2	-	-	-	-	-	-	-
NCA06.RES.0214	NCA06	1	288132	6281433	Residential	22 Matheson Avenue North Richmond	56	50	P	44	38	44	38	2.7	2.7	-	-	-	-	-	-	-
NCA06.RES.0215	NCA06	1	288143	6281420	Residential	24 Matheson Avenue North Richmond	56	50	P	44	38	44	38	2.5	2.5	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0215	NCA06	2	288143	6281420	Residential	24 Matheson Avenue North Richmond	59	53	P	47	41	47	41	3.2	3.2	-	-	-	-	-	-	-
NCA06.RES.0216	NCA06	1	288162	6281399	Residential	26 Matheson Avenue North Richmond	57	52	P	45	40	46	40	4.2	4.3	-	-	-	-	-	-	-
NCA06.RES.0217	NCA06	1	288171	6281388	Residential	28 Matheson Avenue North Richmond	58	52	P	46	40	46	40	4.9	5	-	-	-	-	-	-	-
NCA06.RES.0218	NCA06	1	288585	6281766	Residential	3 Pitt Lane North Richmond	60	55	P	64	58	63	58	20.5	20.6	-	-	-	-	-	-	-
NCA06.RES.0218	NCA06	2	288585	6281766	Residential	3 Pitt Lane North Richmond	60	55	P	66	60	65	60	18.8	18.7	-	-	Y	Y	Y	Y	Y
NCA06.RES.0219	NCA06	1	288545	6281765	Residential	5 Pitt Lane North Richmond	60	55	P	52	47	53	47	12.2	12.2	-	-	-	-	-	-	-
NCA06.RES.0219	NCA06	2	288545	6281765	Residential	5 Pitt Lane North Richmond	60	55	P	56	50	57	51	12.9	13	-	-	-	-	-	-	-
NCA06.RES.0220	NCA06	1	288560	6281746	Residential	5 Pitt Lane North Richmond	60	55	P	55	49	54	49	18	18.2	-	-	-	-	-	-	-
NCA06.RES.0220	NCA06	2	288560	6281746	Residential	5 Pitt Lane North Richmond	60	55	P	58	52	58	52	14.6	14.5	-	-	-	-	-	-	-
NCA06.RES.0221	NCA06	1	288551	6281761	Residential	5 Pitt Lane North Richmond	60	55	P	51	46	52	46	11.5	11.5	-	-	-	-	-	-	-
NCA06.RES.0221	NCA06	2	288551	6281761	Residential	5 Pitt Lane North Richmond	60	55	P	55	49	56	50	12.3	12.4	-	-	-	-	-	-	-
NCA06.RES.0222	NCA06	1	288557	6281757	Residential	5 Pitt Lane North Richmond	60	55	P	51	45	51	45	11	11	-	-	-	-	-	-	-
NCA06.RES.0222	NCA06	2	288557	6281757	Residential	5 Pitt Lane North Richmond	60	55	P	54	49	54	49	11.8	11.9	-	-	-	-	-	-	-
NCA06.RES.0223	NCA06	1	288525	6281773	Residential	5 Pitt Lane North Richmond	60	55	P	54	48	53	48	11.4	11.5	-	-	-	-	-	-	-
NCA06.RES.0224	NCA06	1	288544	6281780	Residential	5 Pitt Lane North Richmond	60	55	P	56	50	56	50	14	14.1	-	-	-	-	-	-	-
NCA06.RES.0225	NCA06	1	288460	6281681	Residential	19 Pitt Lane North Richmond	60	55	P	49	43	50	44	9.1	9.2	-	-	-	-	-	-	-
NCA06.RES.0225	NCA06	2	288460	6281681	Residential	19 Pitt Lane North Richmond	60	55	P	54	48	55	49	7	6.9	-	-	-	-	-	-	-
NCA06.RES.0226	NCA06	1	288437	6281635	Residential	21 Pitt Lane North Richmond	60	55	P	54	48	55	49	7.6	7.3	-	-	-	-	-	-	-
NCA06.RES.0226	NCA06	2	288439	6281647	Residential	21 Pitt Lane North Richmond	60	55	P	55	50	56	50	6.7	6.6	-	-	-	-	-	-	-
NCA06.RES.0227	NCA06	1	288448	6281726	Residential	1/1 Riverview Street North Richmond	60	55	P	49	43	49	44	11.8	12	-	-	-	-	-	-	-
NCA06.RES.0227	NCA06	2	288448	6281726	Residential	1/1 Riverview Street North Richmond	60	55	P	51	46	53	47	9.9	10.1	-	-	-	-	-	-	-
NCA06.RES.0228	NCA06	1	288460	6281737	Residential	1 Riverview Street North Richmond	60	55	P	53	47	53	47	9.5	9.3	-	-	-	-	-	-	-
NCA06.RES.0228	NCA06	2	288460	6281737	Residential	1 Riverview Street North Richmond	60	55	P	54	49	54	49	8.5	8.5	-	-	-	-	-	-	-
NCA06.RES.0229	NCA06	1	288473	6281756	Residential	1 Riverview Street North Richmond	60	55	P	51	46	52	46	6	6.2	-	-	-	-	-	-	-
NCA06.RES.0229	NCA06	2	288473	6281756	Residential	1 Riverview Street North Richmond	60	55	P	54	48	55	49	6.1	6.2	-	-	-	-	-	-	-
NCA06.RES.0230	NCA06	1	288462	6281767	Residential	3A Riverview Street North Richmond	60	55	P	50	45	51	45	5.1	5.2	-	-	-	-	-	-	-
NCA06.RES.0230	NCA06	2	288465	6281764	Residential	3A Riverview Street North Richmond	60	55	P	53	47	54	48	5.5	5.5	-	-	-	-	-	-	-
NCA06.RES.0231	NCA06	1	288435	6281771	Residential	5 Riverview Street North Richmond	60	55	P	49	43	49	43	4.3	4.4	-	-	-	-	-	-	-
NCA06.RES.0232	NCA06	1	288453	6281779	Residential	3/5 Riverview Street North Richmond	60	55	P	51	45	51	45	4.6	4.7	-	-	-	-	-	-	-
NCA06.RES.0233	NCA06	1	288440	6281792	Residential	7 Riverview Street North Richmond	60	55	P	50	45	51	45	4.5	4.5	-	-	-	-	-	-	-
NCA06.RES.0234	NCA06	1	288430	6281801	Residential	9 Riverview Street North Richmond	60	55	P	50	44	50	44	5.2	5.2	-	-	-	-	-	-	-
NCA06.RES.0235	NCA06	1	288413	6281784	Residential	9 Riverview Street North Richmond	60	55	P	49	44	49	44	4.2	4.2	-	-	-	-	-	-	-
NCA06.RES.0236	NCA06	1	288421	6281819	Residential	11 Riverview Street North Richmond	60	55	P	51	45	51	45	3.4	3.3	-	-	-	-	-	-	-
NCA06.RES.0237	NCA06	1	288409	6281825	Residential	13 Riverview Street North Richmond	60	55	P	50	44	50	44	3.6	3.7	-	-	-	-	-	-	-
NCA06.RES.0239	NCA06	1	288390	6281846	Residential	17 Riverview Street North Richmond	60	55	P	52	46	52	46	6.2	6.2	-	-	-	-	-	-	-
NCA06.RES.0241	NCA06	1	288362	6281863	Residential	21 Riverview Street North Richmond	60	55	P	52	46	52	46	5.4	5.5	-	-	-	-	-	-	-
NCA06.RES.0242	NCA06	1	288328	6281858	Residential	23 Riverview Street North Richmond	60	55	P	49	43	49	43	1.9	1.9	-	-	-	-	-	-	-
NCA06.RES.0243	NCA06	1	288362	6281881	Residential	23 Riverview Street North Richmond	60	55	P	53	47	53	48	2.9	2.8	-	-	-	-	-	-	-
NCA06.RES.0244	NCA06	1	288340	6281864	Residential	23 Riverview Street North Richmond	60	55	P	50	44	50	44	3.2	3.2	-	-	-	-	-	-	-
NCA06.RES.0245	NCA06	1	288357	6281868	Residential	23 Riverview Street North Richmond	60	55	P	51	46	51	46	6.5	6.5	-	-	-	-	-	-	-
NCA06.RES.0246	NCA06	1	288347	6281897	Residential	25 Riverview Street North Richmond	60	55	P	53	47	53	47	1.4	1.3	-	-	-	-	-	-	-
NCA06.RES.0247	NCA06	1	288334	6281908	Residential	27 Riverview Street North Richmond	60	55	P	52	47	52	47	1.6	1.5	-	-	-	-	-	-	-
NCA06.RES.0248	NCA06	1	288298	6281903	Residential	29 Riverview Street North Richmond	60	55	P	50	44	49	44	0.9	0.8	-	-	-	-	-	-	-
NCA06.RES.0248	NCA06	2	288290	6281903	Residential	29 Riverview Street North Richmond	60	55	P	55	49	55	49	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0249	NCA06	1	288310	6281912	Residential	29 Riverview Street North Richmond	60	55	P	53	48	53	48	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0249	NCA06	2	288310	6281912	Residential	29 Riverview Street North Richmond	60	55	P	56	50	55	50	0.6	0.5	-	-	-	-	-	-	-
NCA06.RES.0250	NCA06	1	288323	6281924	Residential	29 Riverview Street North Richmond	60	55	P	54	49	54	49	0.8	0.7	-	-	-	-	-	-	-
NCA06.RES.0250	NCA06	2	288323	6281924	Residential	29 Riverview Street North Richmond	60	55	P	56	50	56	50	0.8	0.7	-	-	-	-	-	-	-
NCA06.RES.0252	NCA06	1	288296	6281955	Residential	35 Riverview Street North Richmond	60	55	P	58	53	58	53	0.2	0.1	-	-	-	-	-	-	-
NCA06.RES.0253	NCA06	1	288635	6281713	Residential	3/5 Shortland Cl North Richmond	59	54	P	67	61	63	57	18.4	18.1	-	-	-	-	-	-	-
NCA06.RES.0253	NCA06	2	288635	6281713	Residential	3/5 Shortland Cl North Richmond	59	54	P	68	63	65	59	19.5	19.3	-	-	Y	Y	Y	-	Y
NCA06.RES.0254	NCA06	1	288589	6281720	Residential	3 Shortland Close North Richmond	60	55	P	59	53	58	52	20.9	21	-	-	-	-	-	-	-
NCA06.RES.0254	NCA06	2	288589	6281720	Residential	3 Shortland Close North Richmond	60	55	P	61	55	60	54	17.3	17.3	-	-	-	-	-	-	-
NCA06.RES.0255	NCA06	1	288592	6281733	Residential	3 Shortland Close North Richmond	60	55	P	58	52	58	52	19.5	19.6	-	-	-	-	-	-	-
NCA06.RES.0255	NCA06	2	288592	6281733	Residential	3 Shortland Close North Richmond	60	55	P	61	55	60	54	14.4	14.2	-	-	-	-	-	-	-
NCA06.RES.0256	NCA06	1	288559	6281741	Residential	3 Shortland Close North Richmond	60	55	P	53	48	53	47	15.5	15.7	-	-	-	-	-	-	-
NCA06.RES.0256	NCA06	2	288570	6281734	Residential	3 Shortland Close North Richmond	60	55	P	56	50	56	51	12.2	12.2	-	-	-	-	-	-	-
NCA06.RES.0257	NCA06	1	288585	6281750	Residential	3 Shortland Close North Richmond	60	55	P	58	52	58	52	19.1	19	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0257	NCA06	2	288585	6281750	Residential	3 Shortland Close North Richmond	60	55	P	61	56	61	56	16.1	16.2	-	-	-	-	-	-	-
NCA06.RES.0258	NCA06	1	288613	6281714	Residential	3 Shortland Close North Richmond	59	54	P	63	57	61	56	22.8	22.8	-	-	-	-	-	-	-
NCA06.RES.0258	NCA06	2	288613	6281714	Residential	3 Shortland Close North Richmond	59	54	P	64	59	63	57	20.2	20.3	-	-	-	-	-	-	-
NCA06.RES.0259	NCA06	1	288599	6281671	Residential	9 Shortland Close North Richmond	58	53	P	61	55	58	52	15.8	15.7	-	-	-	-	-	-	-
NCA06.RES.0259	NCA06	2	288599	6281671	Residential	9 Shortland Close North Richmond	58	53	P	62	56	59	53	14	13.7	-	-	-	-	-	-	-
NCA06.RES.0260	NCA06	1	288580	6281643	Residential	11A Shortland Close North Richmond	57	52	P	59	54	57	51	15	14.8	-	-	-	-	-	-	-
NCA06.RES.0260	NCA06	2	288580	6281643	Residential	11A Shortland Close North Richmond	57	52	P	60	54	58	52	12.7	12.4	-	-	-	-	-	-	-
NCA06.RES.0261	NCA06	1	288229	6281909	Residential	1 Sunnyside Crescent North Richmond	60	55	P	55	49	54	49	0.3	0.2	-	-	-	-	-	-	-
NCA06.RES.0262	NCA06	1	288209	6281939	Residential	1C Sunnyside Crescent North Richmond	60	55	P	69	63	68	62	0	0	-	-	-	-	-	-	-
NCA06.RES.0262	NCA06	2	288209	6281939	Residential	1C Sunnyside Crescent North Richmond	60	55	P	69	63	68	63	0	0	-	-	-	-	-	-	-
NCA06.RES.0263	NCA06	1	288243	6281897	Residential	3 Sunnyside Crescent North Richmond	60	55	P	53	47	52	46	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0264	NCA06	1	288260	6281893	Residential	5 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	0.8	0.8	-	-	-	-	-	-	-
NCA06.RES.0265	NCA06	1	288276	6281881	Residential	7 Sunnyside Crescent North Richmond	60	55	P	52	46	51	46	1.2	1.2	-	-	-	-	-	-	-
NCA06.RES.0266	NCA06	1	288281	6281863	Residential	9 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	1.1	1.1	-	-	-	-	-	-	-
NCA06.RES.0267	NCA06	1	288299	6281851	Residential	11 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	2.7	2.7	-	-	-	-	-	-	-
NCA06.RES.0268	NCA06	1	288318	6281836	Residential	13 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	3	3	-	-	-	-	-	-	-
NCA06.RES.0269	NCA06	1	288321	6281825	Residential	15 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	2.4	2.4	-	-	-	-	-	-	-
NCA06.RES.0270	NCA06	1	288334	6281811	Residential	17 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	4.2	4.2	-	-	-	-	-	-	-
NCA06.RES.0271	NCA06	1	288339	6281789	Residential	19 Sunnyside Crescent North Richmond	60	55	P	48	43	49	43	4.7	4.7	-	-	-	-	-	-	-
NCA06.RES.0272	NCA06	1	288333	6281774	Residential	21 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	2.9	2.9	-	-	-	-	-	-	-
NCA06.RES.0273	NCA06	1	288321	6281760	Residential	23 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	2	2	-	-	-	-	-	-	-
NCA06.RES.0274	NCA06	1	288309	6281751	Residential	25 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	2.4	2.5	-	-	-	-	-	-	-
NCA06.RES.0275	NCA06	1	288296	6281733	Residential	27 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	3.3	3.3	-	-	-	-	-	-	-
NCA06.RES.0276	NCA06	1	288275	6281726	Residential	29 Sunnyside Crescent North Richmond	60	54	P	48	42	48	42	2	2	-	-	-	-	-	-	-
NCA06.RES.0277	NCA06	1	288269	6281712	Residential	31 Sunnyside Crescent North Richmond	60	55	P	48	43	49	43	3	3.1	-	-	-	-	-	-	-
NCA06.RES.0278	NCA06	1	288254	6281695	Residential	33 Sunnyside Crescent North Richmond	60	55	P	48	43	49	43	3	3.1	-	-	-	-	-	-	-
NCA06.RES.0279	NCA06	1	288240	6281687	Residential	35 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	2.6	2.6	-	-	-	-	-	-	-
NCA06.RES.0280	NCA06	1	288219	6281678	Residential	37 Sunnyside Crescent North Richmond	60	55	P	49	44	49	43	1	1	-	-	-	-	-	-	-
NCA06.RES.0281	NCA06	1	288204	6281662	Residential	39 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	1	1	-	-	-	-	-	-	-
NCA06.RES.0282	NCA06	1	288192	6281652	Residential	41 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	0.9	0.9	-	-	-	-	-	-	-
NCA06.RES.0283	NCA06	1	288176	6281637	Residential	43 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	0.8	0.8	-	-	-	-	-	-	-
NCA06.RES.0284	NCA06	1	288159	6281627	Residential	45 Sunnyside Crescent North Richmond	60	55	P	50	45	50	44	0.6	0.5	-	-	-	-	-	-	-
NCA06.RES.0285	NCA06	1	288149	6281614	Residential	47 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	0.7	0.6	-	-	-	-	-	-	-
NCA06.RES.0286	NCA06	1	288137	6281603	Residential	49 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	0.6	0.6	-	-	-	-	-	-	-
NCA06.RES.0287	NCA06	1	288124	6281589	Residential	51 Sunnyside Crescent North Richmond	60	55	P	50	45	50	44	0.6	0.5	-	-	-	-	-	-	-
NCA06.RES.0288	NCA06	1	288107	6281579	Residential	53 Sunnyside Crescent North Richmond	60	55	P	51	45	50	44	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0289	NCA06	1	288094	6281566	Residential	55 Sunnyside Crescent North Richmond	60	55	P	51	45	50	44	0.4	0.4	-	-	-	-	-	-	-
NCA06.RES.0290	NCA06	1	288078	6281555	Residential	57 Sunnyside Crescent North Richmond	60	55	P	51	45	50	44	0.4	0.4	-	-	-	-	-	-	-
NCA06.RES.0291	NCA06	1	288258	6281826	Residential	4 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	1.2	1.2	-	-	-	-	-	-	-
NCA06.RES.0292	NCA06	1	288280	6281800	Residential	4 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	1.8	1.8	-	-	-	-	-	-	-
NCA06.RES.0292	NCA06	2	288280	6281800	Residential	4 Sunnyside Crescent North Richmond	60	55	P	53	47	53	47	1.9	1.9	-	-	-	-	-	-	-
NCA06.RES.0293	NCA06	1	288265	6281786	Residential	10 Sunnyside Crescent North Richmond	60	55	P	49	43	48	42	0.6	0.6	-	-	-	-	-	-	-
NCA06.RES.0293	NCA06	2	288265	6281786	Residential	10 Sunnyside Crescent North Richmond	60	55	P	52	46	51	45	0.9	0.8	-	-	-	-	-	-	-
NCA06.RES.0294	NCA06	1	288249	6281774	Residential	10 Sunnyside Crescent North Richmond	60	55	P	49	43	48	43	0.7	0.6	-	-	-	-	-	-	-
NCA06.RES.0294	NCA06	2	288249	6281774	Residential	10 Sunnyside Crescent North Richmond	60	55	P	51	46	51	45	0.8	0.8	-	-	-	-	-	-	-
NCA06.RES.0295	NCA06	1	288215	6281744	Residential	14 Sunnyside Crescent North Richmond	60	55	P	49	43	48	43	0.9	0.9	-	-	-	-	-	-	-
NCA06.RES.0296	NCA06	1	288220	6281763	Residential	14 Sunnyside Crescent North Richmond	60	55	P	49	43	48	42	0.8	0.7	-	-	-	-	-	-	-
NCA06.RES.0296	NCA06	2	288220	6281763	Residential	14 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	0.7	0.7	-	-	-	-	-	-	-
NCA06.RES.0297	NCA06	1	288231	6281757	Residential	14 Sunnyside Crescent North Richmond	60	54	P	48	42	48	42	0.8	0.7	-	-	-	-	-	-	-
NCA06.RES.0297	NCA06	2	288243	6281757	Residential	14 Sunnyside Crescent North Richmond	60	55	P	51	46	52	46	2	2	-	-	-	-	-	-	-
NCA06.RES.0298	NCA06	1	288212	6281730	Residential	16 Sunnyside Crescent North Richmond	60	55	P	49	44	49	44	1.8	1.8	-	-	-	-	-	-	-
NCA06.RES.0299	NCA06	1	288190	6281720	Residential	18 Sunnyside Crescent North Richmond	60	55	P	50	44	49	44	1	1	-	-	-	-	-	-	-
NCA06.RES.0300	NCA06	1	288170	6281703	Residential	20 Sunnyside Crescent North Richmond	60	55	P	51	45	50	44	0.7	0.7	-	-	-	-	-	-	-
NCA06.RES.0301	NCA06	1	288160	6281693	Residential	22 Sunnyside Crescent North Richmond	60	55	P	51	45	50	44	0.5	0.4	-	-	-	-	-	-	-
NCA06.RES.0302	NCA06	1	288148	6281680	Residential	24 Sunnyside Crescent North Richmond	60	55	P	50	44	49	43	0.7	0.7	-	-	-	-	-	-	-
NCA06.RES.0303	NCA06	1	288129	6281671	Residential	26 Sunnyside Crescent North Richmond	60	55	P	50	44	49	43	0.6	0.5	-	-	-	-	-	-	-
NCA06.RES.0304	NCA06	1	288116	6281653	Residential	28 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	0.5	0.5	-	-	-	-	-	-	-
NCA06.RES.0305	NCA06	1	288095	6281644	Residential	30 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	0.5	0.4	-	-	-	-	-	-	-

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										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA06.RES.0306	NCA06	1	288093	6281632	Residential	32 Sunnyside Crescent North Richmond	60	54	P	48	42	48	42	1.1	1.1	-	-	-	-	-	-	-
NCA06.RES.0307	NCA06	1	288070	6281622	Residential	34 Sunnyside Crescent North Richmond	60	55	P	50	45	50	44	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0308	NCA06	1	288060	6281605	Residential	36 Sunnyside Crescent North Richmond	60	55	P	50	44	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA06.RES.0309	NCA06	1	288047	6281598	Residential	38 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	0.4	0.3	-	-	-	-	-	-	-
NCA07.OOA.0001	NCA07	1	289015	6280790	Other (Outdoor Active)	118 Inalls Lane Richmond	60	-	P	53	48	54	48	12.3	11.8	-	-	-	-	-	-	-
NCA07.OOA.0002	NCA07	1	290140	6280853	Other (Outdoor Active)	5 Old Kurrajong Road Richmond	60	-	P	57	51	57	51	0.5	0.4	-	-	-	-	-	-	-
NCA07.OOA.0005	NCA07	1	289568	6281226	Other (Outdoor Active)	100 Old Kurrajong Road Richmond	60	-	P	55	49	55	49	7.2	7	-	-	-	-	-	-	-
NCA07.RES.0003	NCA07	1	289983	6281075	Residential	33 Old Kurrajong Road Richmond	60	55	P	55	49	55	49	1.7	1.6	-	-	-	-	-	-	-
NCA07.RES.0004	NCA07	1	290052	6281229	Residential	49 Old Kurrajong Road Richmond	60	55	P	51	45	51	46	2.3	2.2	-	-	-	-	-	-	-
NCA07.RES.0006	NCA07	1	289262	6281692	Residential	122 Old Kurrajong Road Richmond	57	52	P	52	46	51	46	6.3	6.2	-	-	-	-	-	-	-
NCA07.RES.0007	NCA07	1	289295	6281689	Residential	122 Old Kurrajong Road Richmond	58	53	P	52	46	52	47	7.3	7.2	-	-	-	-	-	-	-
NCA07.RES.0008	NCA07	1	289265	6281660	Residential	122 Old Kurrajong Road Richmond	57	52	P	53	47	53	48	7.9	7.8	-	-	-	-	-	-	-
NCA07.RES.0009	NCA07	1	289227	6281633	Residential	136 Old Kurrajong Road Richmond	57	52	P	52	46	54	48	9	8.8	-	-	-	-	-	-	-
NCA07.RES.0010	NCA07	1	289206	6281636	Residential	136 Old Kurrajong Road Richmond	57	52	P	54	48	55	49	10.5	10.5	-	-	-	-	-	-	-
NCA07.RES.0010	NCA07	2	289206	6281636	Residential	136 Old Kurrajong Road Richmond	57	52	P	55	49	56	50	10.5	10.3	-	-	-	-	-	-	-
NCA07.RES.0011	NCA07	1	289106	6281550	Residential	148 Old Kurrajong Road Richmond	55	50	P	55	50	58	52	13.3	13.3	Y	Y	-	-	-	-	Y
NCA07.RES.0012	NCA07	1	289108	6281569	Residential	148 Old Kurrajong Road Richmond	55	50	P	54	49	55	50	15.1	15.1	-	-	-	-	-	-	-
NCA07.RES.0013	NCA07	1	288827	6281339	Residential	170 Old Kurrajong Road Richmond	55	50	P	56	50	57	51	12.5	12.5	-	-	-	-	-	-	-
NCA07.RES.0014	NCA07	1	288838	6281350	Residential	170 Old Kurrajong Road Richmond	55	50	P	56	51	57	52	13.6	13.6	-	-	-	-	-	-	-
NCA07.RES.0015	NCA07	1	288791	6281322	Residential	2 Yarramundi Lane Richmond	55	50	P	58	53	57	51	11.8	11.8	-	-	-	-	-	-	-
NCA07.RES.0016	NCA07	1	288759	6281286	Residential	2 Yarramundi Lane Richmond	56	51	P	55	50	55	50	10.8	10.7	-	-	-	-	-	-	-
NCA07.RES.0017	NCA07	1	288584	6281154	Residential	22 Yarramundi Lane Richmond	57	52	P	53	47	53	47	9.3	9	-	-	-	-	-	-	-
NCA07.RES.0018	NCA07	1	288516	6281092	Residential	22 Yarramundi Lane Richmond	57	52	P	52	46	51	45	8.1	7.8	-	-	-	-	-	-	-
NCA08.OPW.0002	NCA08	1	289656	6279684	Other (Place of Worship)	Castlereagh Road Richmond	50	50	H	61	59	67	65	16	15.8	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0001	NCA08	1	288379	6281001	Residential	42 Yarramundi Lane Agnes Banks	57	52	P	50	45	50	44	7.8	7.6	-	-	-	-	-	-	-
NCA08.RES.0003	NCA08	1	289472	6279864	Residential	3 Drift Road Richmond	55	50	P	61	53	61	55	13.1	11.9	Y	Y	Y	Y	-	-	Y
NCA08.RES.0004	NCA08	1	289458	6279851	Residential	5 Drift Road Richmond	55	50	P	61	53	60	54	11.4	9.9	-	Y	Y	-	-	-	Y
NCA08.RES.0004	NCA08	2	289473	6279847	Residential	5 Drift Road Richmond	55	50	P	56	50	61	55	14.3	13.8	Y	Y	Y	Y	-	-	Y
NCA08.RES.0005	NCA08	1	289439	6279835	Residential	7 Drift Road Richmond	55	50	P	61	53	59	53	8.2	6.7	-	-	-	-	-	-	-
NCA08.RES.0005	NCA08	2	289439	6279835	Residential	7 Drift Road Richmond	55	50	P	62	54	59	54	7.7	6.2	-	-	-	-	-	-	-
NCA08.RES.0006	NCA08	1	289412	6279778	Residential	15 Drift Road Richmond	57	52	P	55	48	54	48	6.1	5.2	-	-	-	-	-	-	-
NCA08.RES.0007	NCA08	1	289376	6279777	Residential	19 Drift Road Richmond	58	53	P	59	52	55	50	3.9	2.9	-	-	-	-	-	-	-
NCA08.RES.0008	NCA08	1	289362	6279770	Residential	21 Drift Road Richmond	59	54	P	61	53	56	51	3	2.1	-	-	-	-	-	-	-
NCA08.RES.0009	NCA08	1	289334	6279739	Residential	23 Drift Road Richmond	60	55	P	60	52	54	49	2.4	1.7	-	-	-	-	-	-	-
NCA08.RES.0010	NCA08	1	289324	6279731	Residential	25 Drift Road Richmond	60	55	P	60	52	54	49	2.1	1.5	-	-	-	-	-	-	-
NCA08.RES.0011	NCA08	1	289305	6279713	Residential	27 Drift Road Richmond	60	55	P	60	52	54	49	1.9	1.3	-	-	-	-	-	-	-
NCA08.RES.0012	NCA08	1	289291	6279701	Residential	29 Drift Road Richmond	60	55	P	60	52	54	49	1.9	1.3	-	-	-	-	-	-	-
NCA08.RES.0013	NCA08	1	289277	6279688	Residential	31 Drift Road Richmond	60	55	P	60	53	54	49	1.8	1.2	-	-	-	-	-	-	-
NCA08.RES.0014	NCA08	1	289267	6279678	Residential	35 Drift Road Richmond	60	55	P	60	52	54	49	1.7	1.2	-	-	-	-	-	-	-
NCA08.RES.0015	NCA08	1	289238	6279652	Residential	39 Drift Road Richmond	60	55	P	60	52	54	49	1.3	0.9	-	-	-	-	-	-	-
NCA08.RES.0016	NCA08	1	289214	6279631	Residential	43 Drift Road Richmond	60	55	P	59	52	54	49	1	0.7	-	-	-	-	-	-	-
NCA08.RES.0017	NCA08	1	289250	6279588	Residential	47 Drift Road Richmond	60	55	P	59	54	61	54	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0017	NCA08	2	289250	6279588	Residential	47 Drift Road Richmond	60	55	P	62	56	63	57	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0018	NCA08	1	289240	6279576	Residential	51 Drift Road Richmond	60	55	P	63	57	64	58	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0019	NCA08	1	289213	6279595	Residential	55 Drift Road Richmond	60	55	P	53	47	54	48	0.3	0.3	-	-	-	-	-	-	-
NCA08.RES.0020	NCA08	1	289185	6279588	Residential	59 Drift Road Richmond	60	55	P	55	49	55	49	0.2	0.1	-	-	-	-	-	-	-
NCA08.RES.0021	NCA08	1	289222	6279559	Residential	61 Drift Road Richmond	60	55	P	67	61	68	62	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0022	NCA08	1	289187	6279551	Residential	63 Drift Road Richmond	60	55	P	66	60	68	61	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0023	NCA08	1	289170	6279592	Residential	65 Drift Road Richmond	60	55	P	60	53	55	50	0.7	0.5	-	-	-	-	-	-	-
NCA08.RES.0024	NCA08	1	289165	6279560	Residential	67 Drift Road Richmond	60	55	P	57	51	59	52	0.2	0.1	-	-	-	-	-	-	-
NCA08.RES.0025	NCA08	1	289152	6279551	Residential	69 Drift Road Richmond	60	55	P	60	54	62	55	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0026	NCA08	1	289135	6279534	Residential	71 Drift Road Richmond	60	55	P	66	60	67	61	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0027	NCA08	1	289100	6279509	Residential	73 Drift Road Richmond	60	55	P	67	61	69	62	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0029	NCA08	1	289370	6279914	Residential	6 Drift Road Richmond	55	50	P	55	49	60	54	14.4	13.7	Y	Y	Y	-	-	-	Y
NCA08.RES.0029	NCA08	2	289370	6279914	Residential	6 Drift Road Richmond	55	50	P	56	50	61	55	13.9	13.3	Y	Y	Y	Y	-	-	Y
NCA08.RES.0030	NCA08	1	289283	6279908	Residential	14 Drift Road Richmond	55	50	P	52	46	57	51	10.8	10.3	Y	Y	-	-	-	-	Y
NCA08.RES.0031	NCA08	1	289204	6279933	Residential	22 Drift Road Richmond	55	50	P	52	46	56	50	10.7	10.2	Y	-	-	-	-	-	Y
NCA08.RES.0032	NCA08	1	289101	6279852	Residential	26 Drift Road Richmond	58	53	P	49	44	52	46	6.5	6.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA08.RES.0033	NCA08	1	288872	6279917	Residential	42 Drift Road Richmond	57	52	P	49	44	52	46	6.6	6.3	-	-	-	-	-	-	-
NCA08.RES.0034	NCA08	1	289510	6279876	Residential	29 Inalls Lane Richmond	55	50	P	59	53	67	61	22	21.6	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0035	NCA08	1	289412	6279731	Residential	3 Ivory Place Richmond	59	54	P	50	44	51	45	3.5	3.4	-	-	-	-	-	-	-
NCA08.RES.0036	NCA08	1	289452	6279699	Residential	5 Ivory Place Richmond	60	55	P	52	46	54	48	2.7	2.7	-	-	-	-	-	-	-
NCA08.RES.0037	NCA08	1	289506	6279644	Residential	7 Ivory Place Richmond	60	55	P	64	58	65	59	0.4	0.3	-	-	-	-	-	-	-
NCA08.RES.0038	NCA08	1	289430	6279616	Residential	9 Ivory Place Richmond	60	55	P	65	59	67	61	0.1	0.1	-	-	-	-	-	-	-
NCA08.RES.0039	NCA08	1	289397	6279750	Residential	2 Ivory Place Richmond	58	53	P	51	44	52	46	4.9	4.6	-	-	-	-	-	-	-
NCA08.RES.0040	NCA08	1	289426	6279716	Residential	4 Ivory Place Richmond	60	55	P	49	43	51	45	3.2	3.1	-	-	-	-	-	-	-
NCA08.RES.0041	NCA08	1	289461	6279668	Residential	6 Ivory Place Richmond	60	55	P	54	48	56	50	1.8	1.7	-	-	-	-	-	-	-
NCA08.RES.0042	NCA08	1	289463	6279626	Residential	8 Ivory Place Richmond	60	55	P	65	59	66	60	0.2	0.1	-	-	-	-	-	-	-
NCA08.RES.0043	NCA08	1	289406	6279611	Residential	10 Ivory Place Richmond	60	55	P	65	59	66	60	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0044	NCA08	1	289382	6279614	Residential	10 Ivory Place Richmond	60	55	P	62	56	63	57	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0045	NCA08	1	289405	6279668	Residential	1 Langley Place Richmond	60	55	P	51	46	53	47	1.3	1.3	-	-	-	-	-	-	-
NCA08.RES.0046	NCA08	1	289375	6279602	Residential	3 Langley Place Richmond	60	55	P	65	59	67	60	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0047	NCA08	1	289340	6279601	Residential	5 Langley Place Richmond	60	55	P	63	57	65	58	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0048	NCA08	1	289296	6279587	Residential	7 Langley Place Richmond	60	55	P	63	57	64	58	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0049	NCA08	1	289269	6279578	Residential	7 Langley Place Richmond	60	55	P	65	59	66	60	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0049	NCA08	2	289269	6279578	Residential	7 Langley Place Richmond	60	55	P	66	60	68	61	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0050	NCA08	1	289298	6279643	Residential	9 Langley Place Richmond	60	55	P	52	46	54	47	0.6	0.6	-	-	-	-	-	-	-
NCA08.RES.0051	NCA08	1	289335	6279671	Residential	11 Langley Place Richmond	60	55	P	49	43	51	45	1.1	1	-	-	-	-	-	-	-
NCA08.RES.0051	NCA08	2	289335	6279671	Residential	11 Langley Place Richmond	60	55	P	52	46	54	48	1.4	1.3	-	-	-	-	-	-	-
NCA08.RES.0052	NCA08	1	289368	6279635	Residential	2 Langley Place Richmond	60	55	P	53	47	55	49	0.4	0.4	-	-	-	-	-	-	-
NCA08.RES.0052	NCA08	2	289368	6279635	Residential	2 Langley Place Richmond	60	55	P	58	52	59	53	0.6	0.5	-	-	-	-	-	-	-
NCA08.RES.0053	NCA08	1	289348	6279620	Residential	4 Langley Place Richmond	60	55	P	56	50	57	51	0.2	0.2	-	-	-	-	-	-	-
NCA08.RES.0053	NCA08	2	289348	6279620	Residential	4 Langley Place Richmond	60	55	P	60	55	62	56	0.3	0.2	-	-	-	-	-	-	-
NCA08.RES.0054	NCA08	1	289316	6279586	Residential	6 Langley Place Richmond	60	55	P	66	60	67	61	0.1	0	-	-	-	-	-	-	-
NCA08.RES.0055	NCA08	1	289270	6279611	Residential	8 Langley Place Richmond	60	55	P	54	48	56	50	0.3	0.2	-	-	-	-	-	-	-
NCA08.RES.0056	NCA08	1	289318	6279659	Residential	10 Langley Place Richmond	60	55	P	50	44	52	45	0.9	0.9	-	-	-	-	-	-	-
NCA08.RES.0057	NCA08	1	289370	6279708	Residential	12 Langley Place Richmond	60	55	P	50	44	52	46	3.9	3.8	-	-	-	-	-	-	-
NCA08.RES.0057	NCA08	2	289370	6279708	Residential	12 Langley Place Richmond	60	55	P	53	47	55	49	3.9	3.7	-	-	-	-	-	-	-
NCA08.RES.0058	NCA08	1	289569	6279816	Residential	1 Victoria Place Richmond	55	50	P	60	54	69	63	21.7	21.4	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0059	NCA08	1	289534	6279763	Residential	3 Victoria Place Richmond	55	50	P	53	47	56	50	5.1	5.1	Y	-	-	-	-	-	Y
NCA08.RES.0060	NCA08	1	289512	6279735	Residential	5 Victoria Place Richmond	57	52	P	54	48	57	51	3.5	3.5	-	-	-	-	-	-	-
NCA08.RES.0061	NCA08	1	289467	6279723	Residential	7 Victoria Place Richmond	59	54	P	52	46	54	48	1.5	1.5	-	-	-	-	-	-	-
NCA08.RES.0062	NCA08	1	289432	6279774	Residential	9 Victoria Place Richmond	57	52	P	52	45	53	47	5.6	5.1	-	-	-	-	-	-	-
NCA08.RES.0063	NCA08	1	289489	6279789	Residential	11 Victoria Place Richmond	55	50	P	49	43	54	48	7	6.9	-	-	-	-	-	-	-
NCA08.RES.0064	NCA08	1	289511	6279835	Residential	13 Victoria Place Richmond	55	50	P	53	47	59	53	14.5	14.1	Y	Y	-	-	-	-	Y
NCA08.RES.0065	NCA08	1	289560	6279778	Residential	2 Victoria Place Richmond	55	50	P	54	48	60	54	8.9	8.9	Y	Y	Y	-	-	-	Y
NCA08.RES.0066	NCA08	1	289523	6279753	Residential	4 Victoria Place Richmond	56	51	P	53	47	57	51	4.5	4.5	Y	-	-	-	-	-	Y
NCA08.RES.0066	NCA08	2	289523	6279753	Residential	4 Victoria Place Richmond	56	51	P	55	50	59	53	4.9	4.9	Y	Y	-	-	-	-	Y
NCA08.RES.0067	NCA08	1	289488	6279720	Residential	6 Victoria Place Richmond	58	53	P	53	47	56	49	2.4	2.4	-	-	-	-	-	-	-
NCA08.RES.0067	NCA08	2	289490	6279728	Residential	6 Victoria Place Richmond	58	53	P	55	49	58	52	3.9	3.8	-	-	-	-	-	-	-
NCA08.RES.0068	NCA08	1	289456	6279744	Residential	8 Victoria Place Richmond	58	53	P	50	44	53	47	5.4	5.3	-	-	-	-	-	-	-
NCA08.RES.0069	NCA08	1	289468	6279772	Residential	10 Victoria Place Richmond	56	51	P	49	44	53	47	4.8	4.7	-	-	-	-	-	-	-
NCA08.RES.0070	NCA08	1	289489	6279820	Residential	12 Victoria Place Richmond	55	50	P	50	44	55	49	11.5	10.8	-	-	-	-	-	-	-
NCA08.RES.0070	NCA08	2	289495	6279822	Residential	12 Victoria Place Richmond	55	50	P	54	49	60	54	12.8	12.3	Y	Y	Y	-	-	-	Y
NCA08.RES.0071	NCA08	1	289543	6279848	Residential	14 Victoria Place Richmond	55	50	P	60	54	69	63	24	23.6	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0071	NCA08	2	289543	6279848	Residential	14 Victoria Place Richmond	55	50	P	62	56	70	64	22.7	22.4	Y	Y	Y	Y	Y	Y	Y
NCA09.OOA.0109	NCA09	1	290391	6280647	Other (Outdoor Active)	Kurrajong Road Richmond	60	-	P	62	56	61	56	0.1	0	-	-	-	-	-	-	-
NCA09.OOA.0110	NCA09	1	290499	6280118	Other (Outdoor Active)	2A William Cox Drive Richmond	60	-	P	50	44	50	44	0.9	0.9	-	-	-	-	-	-	-
NCA09.OOA.0124	NCA09	1	290597	6280745	Other (Outdoor Active)	Windsor Street Richmond	60	-	P	51	45	51	46	0.6	0.5	-	-	-	-	-	-	-
NCA09.OOP.0119	NCA09	1	290696	6280673	Other (Outdoor Passive)	347 Windsor Street Richmond	55	-	P	51	45	51	45	0.9	0.8	-	-	-	-	-	-	-
NCA09.OPW.0117	NCA09	1	290722	6280608	Other (Place of Worship)	345 Windsor Street Richmond	50	50	H	53	51	53	51	1.1	1	-	-	-	-	-	-	-
NCA09.OPW.0123	NCA09	1	290663	6280586	Other (Place of Worship)	384 Windsor Street Richmond	50	50	H	56	54	56	54	0.8	0.7	-	-	-	-	-	-	-
NCA09.OPW.0123	NCA09	2	290663	6280586	Other (Place of Worship)	384 Windsor Street Richmond	50	50	H	57	55	57	55	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0001	NCA09	1	290811	6280686	Residential	1 Chapel Street Richmond	60	54	P	48	42	48	42	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0002	NCA09	1	290791	6280666	Residential	3 Chapel Street Richmond	60	55	P	51	45	51	46	1.2	1.1	-	-	-	-	-	-	-
NCA09.RES.0003	NCA09	1	290776	6280677	Residential	3 Chapel Street Richmond	60	55	P	52	46	52	46	1.2	1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA09.RES.0004	NCA09	1	290758	6280646	Residential	5A Chapel Street Richmond	60	55	P	51	45	51	46	1.2	1	-	-	-	-	-	-	-
NCA09.RES.0005	NCA09	1	290801	6280640	Residential	5 Chapel Street Richmond	60	55	P	49	43	49	43	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0006	NCA09	1	290795	6280618	Residential	7 Chapel Street Richmond	60	55	P	49	43	49	43	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0007	NCA09	1	290805	6280604	Residential	9 Chapel Street Richmond	60	55	P	49	43	49	43	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0008	NCA09	1	290723	6280510	Residential	11 Chapel Street Richmond	60	55	P	54	48	54	48	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0008	NCA09	2	290732	6280502	Residential	11 Chapel Street Richmond	60	55	P	57	51	57	51	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0009	NCA09	1	290762	6280528	Residential	11A Chapel Street Richmond	60	55	P	51	45	50	45	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0009	NCA09	2	290753	6280523	Residential	11A Chapel Street Richmond	60	55	P	53	47	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0010	NCA09	1	290716	6280497	Residential	13 Chapel Street Richmond	60	55	P	56	50	55	50	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0011	NCA09	1	290712	6280484	Residential	15 Chapel Street Richmond	60	55	P	57	51	56	51	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0012	NCA09	1	290700	6280457	Residential	17 Chapel Street Richmond	60	55	P	59	53	59	53	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0013	NCA09	1	290713	6280436	Residential	19 Chapel Street Richmond	60	55	P	61	55	61	55	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0014	NCA09	1	290695	6280425	Residential	21 Chapel Street Richmond	60	55	P	68	62	68	62	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0015	NCA09	1	290588	6280368	Residential	29/23 Chapel Street Richmond	60	55	P	51	45	50	45	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0016	NCA09	1	290661	6280336	Residential	1/23 Chapel Street Richmond	60	55	P	57	51	56	51	0	0	-	-	-	-	-	-	-
NCA09.RES.0016	NCA09	2	290663	6280350	Residential	1/23 Chapel Street Richmond	60	55	P	59	53	58	53	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0017	NCA09	1	290607	6280392	Residential	22/23 Chapel Street Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0018	NCA09	1	290589	6280412	Residential	31/23 Chapel Street Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0018	NCA09	2	290589	6280412	Residential	31/23 Chapel Street Richmond	60	55	P	59	53	58	53	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0019	NCA09	1	290560	6280445	Residential	36/23 Chapel Street Richmond	60	55	P	63	57	62	57	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0020	NCA09	1	290629	6280375	Residential	13/23 Chapel Street Richmond	60	55	P	52	46	51	46	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0020	NCA09	2	290626	6280371	Residential	13/23 Chapel Street Richmond	60	55	P	55	49	54	49	0.4	0.2	-	-	-	-	-	-	-
NCA09.RES.0021	NCA09	1	290565	6280367	Residential	29/23 Chapel Street Richmond	60	55	P	50	44	50	44	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0022	NCA09	1	290676	6280388	Residential	11/23 Chapel Street Richmond	60	55	P	71	65	71	65	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0022	NCA09	2	290676	6280388	Residential	11/23 Chapel Street Richmond	60	55	P	72	66	71	66	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0023	NCA09	1	290617	6280388	Residential	20/23 Chapel Street Richmond	60	55	P	56	50	55	50	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0024	NCA09	1	290598	6280361	Residential	22/23 Chapel Street Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0025	NCA09	1	290578	6280440	Residential	39/23 Chapel Street Richmond	60	55	P	67	61	66	61	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0025	NCA09	2	290578	6280440	Residential	39/23 Chapel Street Richmond	60	55	P	71	65	70	65	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0027	NCA09	1	290620	6280419	Residential	23/23 Chapel Street Richmond	60	55	P	70	64	70	64	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0027	NCA09	2	290620	6280419	Residential	23/23 Chapel Street Richmond	60	55	P	72	66	71	66	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0028	NCA09	1	290650	6280402	Residential	19/23 Chapel Street Richmond	60	55	P	71	65	71	65	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0028	NCA09	2	290650	6280402	Residential	19/23 Chapel Street Richmond	60	55	P	72	66	71	66	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0029	NCA09	1	290670	6280351	Residential	11/23 Chapel Street Richmond	60	55	P	59	54	59	53	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0030	NCA09	1	290569	6280403	Residential	40/23 Chapel Street Richmond	60	55	P	50	44	50	44	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0030	NCA09	2	290561	6280399	Residential	40/23 Chapel Street Richmond	60	55	P	53	47	53	48	1.2	1.2	-	-	-	-	-	-	-
NCA09.RES.0031	NCA09	1	290610	6280363	Residential	21/23 Chapel Street Richmond	60	55	P	50	44	50	44	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0032	NCA09	1	290551	6280418	Residential	36/23 Chapel Street Richmond	60	55	P	51	45	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0032	NCA09	2	290551	6280418	Residential	36/23 Chapel Street Richmond	60	55	P	55	49	55	50	0.8	0.7	-	-	-	-	-	-	-
NCA09.RES.0033	NCA09	1	290541	6280420	Residential	36/23 Chapel Street Richmond	60	55	P	52	46	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0034	NCA09	1	290617	6280356	Residential	20/23 Chapel Street Richmond	60	55	P	50	44	50	44	0.7	0.5	-	-	-	-	-	-	-
NCA09.RES.0035	NCA09	1	290651	6280369	Residential	13/23 Chapel Street Richmond	60	55	P	55	49	55	49	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0035	NCA09	2	290651	6280369	Residential	13/23 Chapel Street Richmond	60	55	P	57	51	57	51	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0036	NCA09	1	290599	6280430	Residential	25/23 Chapel Street Richmond	60	55	P	69	63	69	63	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0037	NCA09	1	290648	6280313	Residential	1/23 Chapel Street Richmond	60	55	P	54	48	54	48	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0038	NCA09	1	290595	6280339	Residential	4/23 Chapel Street Richmond	60	55	P	49	43	49	43	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0039	NCA09	1	290603	6280346	Residential	4/23 Chapel Street Richmond	60	55	P	49	43	49	43	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0040	NCA09	1	290632	6280333	Residential	4/23 Chapel Street Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0041	NCA09	1	290488	6280485	Residential	25 Chapel Street Richmond	60	55	P	64	58	64	58	0.1	0.1	-	-	-	-	-	-	-
NCA09.RES.0042	NCA09	1	290566	6280318	Residential	29 Chapel Street Richmond	60	54	P	48	42	48	43	0.8	0.7	-	-	-	-	-	-	-
NCA09.RES.0043	NCA09	1	290566	6280332	Residential	29 Chapel Street Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0044	NCA09	1	290547	6280332	Residential	29 Chapel Street Richmond	60	55	P	49	43	49	44	1	0.8	-	-	-	-	-	-	-
NCA09.RES.0045	NCA09	1	290536	6280350	Residential	29 Chapel Street Richmond	60	55	P	50	44	50	44	0.8	0.7	-	-	-	-	-	-	-
NCA09.RES.0046	NCA09	1	290501	6280307	Residential	29 Chapel Street Richmond	60	55	P	52	46	52	47	1.6	1.5	-	-	-	-	-	-	-
NCA09.RES.0047	NCA09	1	290551	6280361	Residential	29 Chapel Street Richmond	60	55	P	50	44	50	44	0.8	0.7	-	-	-	-	-	-	-
NCA09.RES.0048	NCA09	1	290556	6280339	Residential	29 Chapel Street Richmond	60	54	P	48	42	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0049	NCA09	1	290575	6280327	Residential	29 Chapel Street Richmond	60	55	P	48	43	48	43	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0050	NCA09	1	290586	6280332	Residential	29 Chapel Street Richmond	60	54	P	48	42	48	42	0.6	0.5	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA09.RES.0051	NCA09	1	290540	6280287	Residential	31 Chapel Street Richmond	60	55	P	49	43	49	43	1	0.9	-	-	-	-	-	-	-
NCA09.RES.0052	NCA09	1	290539	6280271	Residential	31 Chapel Street Richmond	60	55	P	51	45	51	45	1.7	1.6	-	-	-	-	-	-	-
NCA09.RES.0053	NCA09	1	290565	6280296	Residential	31 Chapel Street Richmond	60	54	P	48	42	48	43	1	0.9	-	-	-	-	-	-	-
NCA09.RES.0054	NCA09	1	290481	6280292	Residential	35 Chapel Street Richmond	60	55	P	53	47	53	47	1.4	1.3	-	-	-	-	-	-	-
NCA09.RES.0055	NCA09	1	290877	6280731	Residential	1/155 Francis Street Richmond	60	54	P	48	42	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA09.RES.0056	NCA09	1	290884	6280757	Residential	3/155 Francis Street Richmond	54	49	P	42	37	42	37	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0056	NCA09	2	290887	6280751	Residential	3/155 Francis Street Richmond	59	54	P	47	42	47	42	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0057	NCA09	1	290881	6280761	Residential	3/155 Francis Street Richmond	54	48	P	42	36	42	36	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0057	NCA09	2	290874	6280771	Residential	3/155 Francis Street Richmond	58	52	P	46	40	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0058	NCA09	1	290861	6280739	Residential	161 Francis Street Richmond	60	54	P	48	42	48	42	1.6	1.5	-	-	-	-	-	-	-
NCA09.RES.0058	NCA09	2	290861	6280739	Residential	161 Francis Street Richmond	60	55	P	50	44	50	44	1.5	1.3	-	-	-	-	-	-	-
NCA09.RES.0059	NCA09	1	290860	6280787	Residential	161 Francis Street Richmond	57	51	P	45	39	44	39	1.1	1	-	-	-	-	-	-	-
NCA09.RES.0059	NCA09	2	290855	6280782	Residential	161 Francis Street Richmond	60	54	P	48	42	48	43	1.1	0.9	-	-	-	-	-	-	-
NCA09.RES.0060	NCA09	1	290841	6280750	Residential	161 Francis Street Richmond	60	55	P	48	43	48	43	1.8	1.7	-	-	-	-	-	-	-
NCA09.RES.0060	NCA09	2	290841	6280750	Residential	161 Francis Street Richmond	60	55	P	50	45	50	45	1.5	1.4	-	-	-	-	-	-	-
NCA09.RES.0061	NCA09	1	290834	6280753	Residential	165 Francis Street Richmond	60	55	P	49	43	49	43	1.9	1.8	-	-	-	-	-	-	-
NCA09.RES.0062	NCA09	1	290819	6280798	Residential	167A Francis Street Richmond	54	48	P	42	36	42	36	0.7	0.7	-	-	-	-	-	-	-
NCA09.RES.0063	NCA09	1	290808	6280772	Residential	167 Francis Street Richmond	60	55	P	49	43	49	44	2	1.9	-	-	-	-	-	-	-
NCA09.RES.0064	NCA09	1	290790	6280780	Residential	169 Francis Street Richmond	60	55	P	50	44	50	44	1.7	1.6	-	-	-	-	-	-	-
NCA09.RES.0064	NCA09	2	290790	6280780	Residential	169 Francis Street Richmond	60	55	P	51	46	51	46	1.3	1.2	-	-	-	-	-	-	-
NCA09.RES.0065	NCA09	1	290773	6280789	Residential	171 Francis Street Richmond	60	55	P	50	45	50	45	1.4	1.3	-	-	-	-	-	-	-
NCA09.RES.0066	NCA09	1	290759	6280795	Residential	173A Francis Street Richmond	60	55	P	50	44	50	45	1.5	1.3	-	-	-	-	-	-	-
NCA09.RES.0066	NCA09	2	290755	6280816	Residential	173A Francis Street Richmond	60	55	P	52	46	52	47	1.2	1	-	-	-	-	-	-	-
NCA09.RES.0067	NCA09	1	290748	6280828	Residential	175A Francis Street Richmond	60	55	P	51	45	51	45	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0068	NCA09	1	290704	6280837	Residential	175A Francis Street Richmond	60	55	P	52	47	52	47	0.9	0.8	-	-	-	-	-	-	-
NCA09.RES.0068	NCA09	2	290704	6280837	Residential	175A Francis Street Richmond	60	55	P	53	47	53	47	0.9	0.8	-	-	-	-	-	-	-
NCA09.RES.0069	NCA09	1	290738	6280817	Residential	175 Francis Street Richmond	60	55	P	52	46	51	46	1.2	1	-	-	-	-	-	-	-
NCA09.RES.0070	NCA09	1	290839	6280687	Residential	160 Francis Street Richmond	60	55	P	48	43	48	43	1.2	1.1	-	-	-	-	-	-	-
NCA09.RES.0071	NCA09	1	290834	6280694	Residential	162 Francis Street Richmond	60	54	P	48	42	48	42	0.7	0.5	-	-	-	-	-	-	-
NCA09.RES.0072	NCA09	1	290817	6280706	Residential	164 Francis Street Richmond	60	54	P	48	42	47	42	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0073	NCA09	1	290790	6280705	Residential	166 Francis Street Richmond	60	55	P	50	45	50	45	1.4	1.3	-	-	-	-	-	-	-
NCA09.RES.0074	NCA09	1	290807	6280706	Residential	166 Francis Street Richmond	60	54	P	48	42	47	42	0.5	0.4	-	-	-	-	-	-	-
NCA09.RES.0075	NCA09	1	290779	6280722	Residential	168 Francis Street Richmond	60	55	P	51	45	51	46	1.2	1.1	-	-	-	-	-	-	-
NCA09.RES.0075	NCA09	2	290779	6280722	Residential	168 Francis Street Richmond	60	55	P	53	47	53	47	1	0.9	-	-	-	-	-	-	-
NCA09.RES.0076	NCA09	1	290766	6280733	Residential	170 Francis Street Richmond	60	55	P	52	46	51	46	0.8	0.7	-	-	-	-	-	-	-
NCA09.RES.0077	NCA09	1	290744	6280740	Residential	172 Francis Street Richmond	60	55	P	51	45	51	45	0.5	0.4	-	-	-	-	-	-	-
NCA09.RES.0078	NCA09	1	290709	6280749	Residential	174 Francis Street Richmond	60	55	P	53	47	53	48	0.9	0.8	-	-	-	-	-	-	-
NCA09.RES.0079	NCA09	1	290679	6280763	Residential	176 Francis Street Richmond	60	55	P	54	48	54	48	0.8	0.7	-	-	-	-	-	-	-
NCA09.RES.0080	NCA09	1	290553	6280130	Residential	29 John Tebbutt Place Richmond	60	55	P	48	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0081	NCA09	1	290563	6280132	Residential	29 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0082	NCA09	1	290582	6280166	Residential	37 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.3	0.3	-	-	-	-	-	-	-
NCA09.RES.0083	NCA09	1	290578	6280189	Residential	39 John Tebbutt Place Richmond	60	54	P	48	42	47	42	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0083	NCA09	2	290566	6280172	Residential	39 John Tebbutt Place Richmond	60	55	P	50	45	51	45	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0084	NCA09	1	290534	6280150	Residential	41 John Tebbutt Place Richmond	60	55	P	51	45	52	46	1.2	1.2	-	-	-	-	-	-	-
NCA09.RES.0085	NCA09	1	290567	6280224	Residential	47 John Tebbutt Place Richmond	60	55	P	50	44	50	44	1	0.9	-	-	-	-	-	-	-
NCA09.RES.0086	NCA09	1	290592	6280234	Residential	49 John Tebbutt Place Richmond	60	55	P	50	44	50	44	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0087	NCA09	1	290616	6280228	Residential	53 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0088	NCA09	1	290626	6280242	Residential	55 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.5	0.4	-	-	-	-	-	-	-
NCA09.RES.0089	NCA09	1	290642	6280272	Residential	59 John Tebbutt Place Richmond	60	55	P	52	46	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0090	NCA09	1	290639	6280298	Residential	59 John Tebbutt Place Richmond	60	55	P	50	45	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0091	NCA09	1	290631	6280291	Residential	59 John Tebbutt Place Richmond	60	55	P	50	44	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0092	NCA09	1	290622	6280284	Residential	59 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0093	NCA09	1	290616	6280276	Residential	59 John Tebbutt Place Richmond	60	55	P	49	44	49	44	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0094	NCA09	1	290541	6280120	Residential	26 John Tebbutt Place Richmond	60	55	P	52	46	52	46	1.1	1.1	-	-	-	-	-	-	-
NCA09.RES.0095	NCA09	1	290556	6280121	Residential	26 John Tebbutt Place Richmond	60	54	P	48	42	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0096	NCA09	1	290553	6280096	Residential	26 John Tebbutt Place Richmond	60	55	P	51	45	51	45	1.3	1.3	-	-	-	-	-	-	-
NCA09.RES.0097	NCA09	1	290564	6280127	Residential	29-36 John Tebbutt Place Richmond	60	54	P	48	42	48	43	0.7	0.6	-	-	-	-	-	-	-
NCA09.RES.0098	NCA09	1	290565	6280157	Residential	40 John Tebbutt Place Richmond	60	55	P	48	43	49	43	0.4	0.3	-	-	-	-	-	-	-

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										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA09.RES.0099	NCA09	1	290523	6280167	Residential	42 John Tebbutt Place Richmond	60	55	P	51	45	52	46	1.3	1.3	-	-	-	-	-	-	-
NCA09.RES.0100	NCA09	1	290514	6280186	Residential	44 John Tebbutt Place Richmond	60	55	P	51	45	52	46	1.6	1.5	-	-	-	-	-	-	-
NCA09.RES.0100	NCA09	2	290514	6280186	Residential	44 John Tebbutt Place Richmond	60	55	P	53	47	53	47	1.2	1.1	-	-	-	-	-	-	-
NCA09.RES.0101	NCA09	1	290540	6280207	Residential	46 John Tebbutt Place Richmond	60	55	P	50	44	50	44	1.9	1.8	-	-	-	-	-	-	-
NCA09.RES.0101	NCA09	2	290540	6280207	Residential	46 John Tebbutt Place Richmond	60	55	P	52	46	52	46	1.4	1.3	-	-	-	-	-	-	-
NCA09.RES.0102	NCA09	1	290576	6280226	Residential	48 John Tebbutt Place Richmond	60	55	P	49	44	49	44	1	0.9	-	-	-	-	-	-	-
NCA09.RES.0103	NCA09	1	290603	6280203	Residential	50 John Tebbutt Place Richmond	60	55	P	48	43	48	42	0.1	0	-	-	-	-	-	-	-
NCA09.RES.0103	NCA09	2	290596	6280186	Residential	50 John Tebbutt Place Richmond	60	55	P	51	46	52	46	1.1	1	-	-	-	-	-	-	-
NCA09.RES.0105	NCA09	1	290619	6280244	Residential	54 John Tebbutt Place Richmond	60	55	P	50	45	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA09.RES.0106	NCA09	1	290573	6280271	Residential	54 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.9	0.8	-	-	-	-	-	-	-
NCA09.RES.0107	NCA09	1	290597	6280263	Residential	54 John Tebbutt Place Richmond	60	55	P	48	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0108	NCA09	1	290607	6280269	Residential	54 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0111	NCA09	1	290776	6280573	Residential	335 Windsor Street Richmond	60	55	P	50	44	50	45	1.2	1.1	-	-	-	-	-	-	-
NCA09.RES.0112	NCA09	1	290766	6280579	Residential	337 Windsor Street Richmond	60	55	P	51	45	50	45	1.1	1	-	-	-	-	-	-	-
NCA09.RES.0113	NCA09	1	290779	6280589	Residential	337 Windsor Street Richmond	60	54	P	48	42	47	42	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0114	NCA09	1	290778	6280616	Residential	339 Windsor Street Richmond	60	54	P	48	42	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0115	NCA09	1	290763	6280602	Residential	341 Windsor Street Richmond	60	55	P	50	44	49	44	0.4	0.3	-	-	-	-	-	-	-
NCA09.RES.0116	NCA09	1	290754	6280639	Residential	343 Windsor Street Richmond	60	55	P	51	45	50	45	1.4	1.2	-	-	-	-	-	-	-
NCA09.RES.0118	NCA09	1	290739	6280598	Residential	345 Windsor Street Richmond	60	55	P	52	46	52	46	1	0.9	-	-	-	-	-	-	-
NCA09.RES.0120	NCA09	1	290723	6280534	Residential	378 Windsor Street Richmond	60	55	P	54	48	53	48	0.3	0.2	-	-	-	-	-	-	-
NCA09.RES.0121	NCA09	1	290689	6280549	Residential	378 Windsor Street Richmond	60	55	P	53	47	53	47	0.5	0.4	-	-	-	-	-	-	-
NCA09.RES.0122	NCA09	1	290588	6280595	Residential	380 Windsor Street Richmond	60	55	P	58	52	57	52	0.6	0.5	-	-	-	-	-	-	-
NCA09.RES.0122	NCA09	2	290587	6280580	Residential	380 Windsor Street Richmond	60	55	P	60	54	59	54	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0001	NCA10	1	290341	6279981	Residential	1 Andrew Town Place Richmond	60	55	P	51	46	52	46	0.3	0.3	-	-	-	-	-	-	-
NCA10.RES.0002	NCA10	1	290337	6280019	Residential	3 Andrew Town Place Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0003	NCA10	1	290320	6280058	Residential	5 Andrew Town Place Richmond	60	55	P	49	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0004	NCA10	1	290276	6280072	Residential	7 Andrew Town Place Richmond	60	55	P	49	44	50	45	2.2	2.1	-	-	-	-	-	-	-
NCA10.RES.0005	NCA10	1	290260	6280114	Residential	9 Andrew Town Place Richmond	60	55	P	52	46	52	47	1.7	1.5	-	-	-	-	-	-	-
NCA10.RES.0006	NCA10	1	290297	6280131	Residential	11 Andrew Town Place Richmond	60	55	P	52	46	52	47	1.8	1.7	-	-	-	-	-	-	-
NCA10.RES.0007	NCA10	1	290342	6280131	Residential	13 Andrew Town Place Richmond	60	55	P	51	46	51	46	1.1	1	-	-	-	-	-	-	-
NCA10.RES.0008	NCA10	1	290344	6280084	Residential	15 Andrew Town Place Richmond	60	55	P	49	43	50	44	1.3	1.2	-	-	-	-	-	-	-
NCA10.RES.0009	NCA10	1	290361	6280055	Residential	17 Andrew Town Place Richmond	60	55	P	49	44	50	44	1.1	1	-	-	-	-	-	-	-
NCA10.RES.0010	NCA10	1	290370	6280021	Residential	19 Andrew Town Place Richmond	60	55	P	50	44	51	45	1	0.9	-	-	-	-	-	-	-
NCA10.RES.0011	NCA10	1	290340	6280010	Residential	2 Andrew Town Place Richmond	60	55	P	50	45	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0012	NCA10	1	290310	6280031	Residential	4 Andrew Town Place Richmond	60	55	P	49	43	50	44	1.6	1.6	-	-	-	-	-	-	-
NCA10.RES.0013	NCA10	1	290314	6280074	Residential	6 Andrew Town Place Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0014	NCA10	1	290269	6280081	Residential	8 Andrew Town Place Richmond	60	55	P	49	43	50	45	2.2	2.2	-	-	-	-	-	-	-
NCA10.RES.0015	NCA10	1	290282	6280123	Residential	10 Andrew Town Place Richmond	60	55	P	52	46	52	46	1.8	1.7	-	-	-	-	-	-	-
NCA10.RES.0016	NCA10	1	290319	6280134	Residential	12 Andrew Town Place Richmond	60	55	P	52	46	52	46	1.6	1.5	-	-	-	-	-	-	-
NCA10.RES.0017	NCA10	1	290341	6280097	Residential	14 Andrew Town Place Richmond	60	55	P	49	43	49	43	1.3	1.2	-	-	-	-	-	-	-
NCA10.RES.0018	NCA10	1	290358	6280071	Residential	16 Andrew Town Place Richmond	60	55	P	49	43	49	43	1	1	-	-	-	-	-	-	-
NCA10.RES.0019	NCA10	1	290366	6280038	Residential	18 Andrew Town Place Richmond	60	55	P	50	44	50	44	1	0.9	-	-	-	-	-	-	-
NCA10.RES.0020	NCA10	1	290391	6280002	Residential	20 Andrew Town Place Richmond	60	55	P	51	46	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0021	NCA10	1	290134	6279926	Residential	1 Grand Flaneur Avenue Richmond	60	55	P	51	45	51	45	0.4	0.3	-	-	-	-	-	-	-
NCA10.RES.0022	NCA10	1	290131	6279941	Residential	3 Grand Flaneur Avenue Richmond	60	55	P	50	44	51	45	0.4	0.4	-	-	-	-	-	-	-
NCA10.RES.0023	NCA10	1	290099	6279919	Residential	5 Grand Flaneur Avenue Richmond	60	55	P	50	44	51	44	0.8	0.7	-	-	-	-	-	-	-
NCA10.RES.0024	NCA10	1	290080	6279912	Residential	7 Grand Flaneur Avenue Richmond	60	55	P	50	44	51	45	0.9	0.8	-	-	-	-	-	-	-
NCA10.RES.0025	NCA10	1	290065	6279905	Residential	9 Grand Flaneur Avenue Richmond	60	55	P	50	44	51	45	0.9	0.8	-	-	-	-	-	-	-
NCA10.RES.0026	NCA10	1	290045	6279901	Residential	11 Grand Flaneur Avenue Richmond	60	55	P	50	44	50	44	0.7	0.6	-	-	-	-	-	-	-
NCA10.RES.0027	NCA10	1	290014	6279900	Residential	13 Grand Flaneur Avenue Richmond	60	54	P	48	42	49	43	2.4	2.2	-	-	-	-	-	-	-
NCA10.RES.0028	NCA10	1	290000	6279881	Residential	15 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	1.2	1.2	-	-	-	-	-	-	-
NCA10.RES.0029	NCA10	1	289988	6279872	Residential	17 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	1.2	1.1	-	-	-	-	-	-	-
NCA10.RES.0030	NCA10	1	289969	6279858	Residential	19 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	1.4	1.3	-	-	-	-	-	-	-
NCA10.RES.0031	NCA10	1	289941	6279861	Residential	21 Grand Flaneur Avenue Richmond	60	55	P	48	43	50	44	1.5	1.4	-	-	-	-	-	-	-
NCA10.RES.0032	NCA10	1	289929	6279882	Residential	23 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	1.9	1.8	-	-	-	-	-	-	-
NCA10.RES.0033	NCA10	1	289911	6279871	Residential	25 Grand Flaneur Avenue Richmond	60	55	P	48	43	50	44	2.9	2.8	-	-	-	-	-	-	-
NCA10.RES.0034	NCA10	1	289896	6279881	Residential	27 Grand Flaneur Avenue Richmond	60	54	P	48	42	50	44	3.3	3.1	-	-	-	-	-	-	-
NCA10.RES.0035	NCA10	1	289872	6279897	Residential	29 Grand Flaneur Avenue Richmond	60	54	P	48	42	50	44	4.2	4	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA10.RES.0036	NCA10	1	289873	6279913	Residential	31 Grand Flaneur Avenue Richmond	60	54	P	48	42	50	44	4	3.8	-	-	-	-	-	-	-
NCA10.RES.0037	NCA10	1	289862	6279922	Residential	33 Grand Flaneur Avenue Richmond	59	54	P	47	42	50	44	3.6	3.4	-	-	-	-	-	-	-
NCA10.RES.0038	NCA10	1	289866	6279944	Residential	35 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	2.2	2.1	-	-	-	-	-	-	-
NCA10.RES.0039	NCA10	1	289829	6279950	Residential	37 Grand Flaneur Avenue Richmond	59	53	P	47	41	49	43	4.3	4.1	-	-	-	-	-	-	-
NCA10.RES.0039	NCA10	2	289828	6279943	Residential	37 Grand Flaneur Avenue Richmond	59	54	P	50	45	54	48	6.3	6.2	-	-	-	-	-	-	-
NCA10.RES.0040	NCA10	1	289845	6279967	Residential	39 Grand Flaneur Avenue Richmond	59	54	P	48	43	49	44	2.5	2.4	-	-	-	-	-	-	-
NCA10.RES.0041	NCA10	1	289817	6279975	Residential	41 Grand Flaneur Avenue Richmond	59	53	P	47	41	50	44	5.1	4.9	-	-	-	-	-	-	-
NCA10.RES.0042	NCA10	1	289809	6279983	Residential	43 Grand Flaneur Avenue Richmond	59	53	P	47	41	50	44	4.4	4.2	-	-	-	-	-	-	-
NCA10.RES.0043	NCA10	1	289798	6280024	Residential	45 Grand Flaneur Avenue Richmond	58	53	P	50	44	52	46	5	4.7	-	-	-	-	-	-	-
NCA10.RES.0044	NCA10	1	290180	6279944	Residential	2 Grand Flaneur Avenue Richmond	60	55	P	51	45	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0045	NCA10	1	290174	6279963	Residential	4 Grand Flaneur Avenue Richmond	60	55	P	50	45	51	45	0.3	0.3	-	-	-	-	-	-	-
NCA10.RES.0046	NCA10	1	290174	6279977	Residential	6 Grand Flaneur Avenue Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0047	NCA10	1	290166	6279998	Residential	8 Grand Flaneur Avenue Richmond	60	55	P	50	44	50	45	2	1.9	-	-	-	-	-	-	-
NCA10.RES.0047	NCA10	2	290166	6279998	Residential	8 Grand Flaneur Avenue Richmond	60	55	P	52	46	52	46	1.5	1.5	-	-	-	-	-	-	-
NCA10.RES.0048	NCA10	1	290114	6279985	Residential	10 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	2.4	2.3	-	-	-	-	-	-	-
NCA10.RES.0049	NCA10	1	290099	6279978	Residential	12 Grand Flaneur Avenue Richmond	60	55	P	50	44	50	44	0.9	0.8	-	-	-	-	-	-	-
NCA10.RES.0050	NCA10	1	290060	6279956	Residential	14 Grand Flaneur Avenue Richmond	60	55	P	49	43	51	45	2.7	2.7	-	-	-	-	-	-	-
NCA10.RES.0051	NCA10	1	290050	6279951	Residential	16 Grand Flaneur Avenue Richmond	60	55	P	50	44	50	45	0.8	0.7	-	-	-	-	-	-	-
NCA10.RES.0052	NCA10	1	290015	6279928	Residential	18 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	1.3	1.2	-	-	-	-	-	-	-
NCA10.RES.0053	NCA10	1	289986	6279945	Residential	20 Grand Flaneur Avenue Richmond	60	55	P	48	43	50	44	2.1	2	-	-	-	-	-	-	-
NCA10.RES.0054	NCA10	1	289978	6279941	Residential	22 Grand Flaneur Avenue Richmond	60	55	P	48	43	50	44	1.6	1.4	-	-	-	-	-	-	-
NCA10.RES.0055	NCA10	1	289963	6279931	Residential	24 Grand Flaneur Avenue Richmond	60	55	P	49	43	50	44	1.4	1.4	-	-	-	-	-	-	-
NCA10.RES.0056	NCA10	1	289933	6279915	Residential	28 Grand Flaneur Avenue Richmond	60	55	P	48	43	50	44	2.8	2.7	-	-	-	-	-	-	-
NCA10.RES.0057	NCA10	1	289924	6279927	Residential	30 Grand Flaneur Avenue Richmond	60	54	P	48	42	50	44	3	2.9	-	-	-	-	-	-	-
NCA10.RES.0058	NCA10	1	289901	6279945	Residential	32 Grand Flaneur Avenue Richmond	60	54	P	48	42	50	44	3.6	3.4	-	-	-	-	-	-	-
NCA10.RES.0059	NCA10	1	289867	6279988	Residential	36 Grand Flaneur Avenue Richmond	59	54	P	47	42	50	44	3.9	3.7	-	-	-	-	-	-	-
NCA10.RES.0060	NCA10	1	289853	6280008	Residential	38 Grand Flaneur Avenue Richmond	59	54	P	48	42	50	44	4.6	4.3	-	-	-	-	-	-	-
NCA10.RES.0061	NCA10	1	289847	6280017	Residential	40 Grand Flaneur Avenue Richmond	59	54	P	48	42	50	44	4.8	4.6	-	-	-	-	-	-	-
NCA10.RES.0062	NCA10	1	289829	6280047	Residential	42 Grand Flaneur Avenue Richmond	59	54	P	49	44	51	46	5.3	5	-	-	-	-	-	-	-
NCA10.RES.0063	NCA10	1	289734	6279707	Residential	2 Inalls Lane Richmond	60	55	P	62	57	66	59	12.6	11.8	Y	Y	Y	-	Y	-	Y
NCA10.RES.0064	NCA10	1	289722	6279718	Residential	4 Inalls Lane Richmond	60	55	P	61	56	65	58	15.7	15	Y	Y	Y	-	Y	-	Y
NCA10.RES.0065	NCA10	1	289711	6279729	Residential	6 Inalls Lane Richmond	59	54	P	61	56	65	58	16.8	16.1	Y	Y	Y	-	Y	-	Y
NCA10.RES.0066	NCA10	1	289695	6279746	Residential	8 Inalls Lane Richmond	56	51	P	61	55	65	58	16.6	16	Y	Y	Y	Y	Y	-	Y
NCA10.RES.0067	NCA10	1	289665	6279811	Residential	10 Inalls Lane Richmond	55	50	P	57	51	63	57	14.6	14.5	Y	Y	Y	Y	-	-	Y
NCA10.RES.0068	NCA10	1	289636	6279897	Residential	16 Inalls Lane Richmond	55	50	P	51	45	57	51	12.2	12	Y	Y	-	-	-	-	Y
NCA10.RES.0069	NCA10	1	289634	6279875	Residential	16 Inalls Lane Richmond	55	50	P	55	49	61	55	14.2	14.1	Y	Y	Y	Y	-	-	Y
NCA10.RES.0069	NCA10	2	289634	6279875	Residential	16 Inalls Lane Richmond	55	50	P	56	51	62	56	13.8	13.7	Y	Y	Y	Y	-	-	Y
NCA10.RES.0070	NCA10	1	289606	6279909	Residential	22 Inalls Lane Richmond	55	50	P	54	48	60	54	14.4	14.1	Y	Y	Y	-	-	-	Y
NCA10.RES.0070	NCA10	2	289606	6279909	Residential	22 Inalls Lane Richmond	55	50	P	56	50	62	56	13.9	13.8	Y	Y	Y	Y	-	-	Y
NCA10.RES.0071	NCA10	1	289572	6279935	Residential	32 Inalls Lane Richmond	55	50	P	53	47	58	52	13.2	12.9	Y	Y	-	-	-	-	Y
NCA10.RES.0072	NCA10	1	289538	6279947	Residential	32 Inalls Lane Richmond	55	50	P	59	53	63	57	18.6	17.8	Y	Y	Y	Y	-	-	Y
NCA10.RES.0073	NCA10	1	289551	6279912	Residential	32 Inalls Lane Richmond	55	50	P	61	55	67	61	20.8	20.4	Y	Y	Y	Y	Y	Y	Y
NCA10.RES.0074	NCA10	1	289569	6279998	Residential	34 Inalls Lane Richmond	55	50	P	54	49	58	52	12.2	11.6	Y	Y	-	-	-	-	Y
NCA10.RES.0075	NCA10	1	289584	6280011	Residential	34 Inalls Lane Richmond	55	50	P	53	48	57	51	11.5	10.6	Y	Y	-	-	-	-	Y
NCA10.RES.0076	NCA10	1	289875	6279982	Residential	1 Lindsay Place Richmond	59	54	P	47	42	49	43	4	3.8	-	-	-	-	-	-	-
NCA10.RES.0077	NCA10	1	289915	6280015	Residential	3 Lindsay Place Richmond	60	55	P	50	44	51	45	3	2.8	-	-	-	-	-	-	-
NCA10.RES.0078	NCA10	1	289945	6280028	Residential	5 Lindsay Place Richmond	60	55	P	50	44	51	46	2.4	2.3	-	-	-	-	-	-	-
NCA10.RES.0079	NCA10	1	289967	6279997	Residential	7 Lindsay Place Richmond	60	54	P	48	42	50	44	3.3	3.2	-	-	-	-	-	-	-
NCA10.RES.0080	NCA10	1	289974	6279963	Residential	9 Lindsay Place Richmond	59	54	P	47	42	49	43	2.5	2.4	-	-	-	-	-	-	-
NCA10.RES.0081	NCA10	1	289942	6279972	Residential	11 Lindsay Place Richmond	60	54	P	48	42	49	43	2.7	2.5	-	-	-	-	-	-	-
NCA10.RES.0082	NCA10	1	289897	6280023	Residential	2 Lindsay Place Richmond	60	55	P	50	44	50	45	2.1	1.9	-	-	-	-	-	-	-
NCA10.RES.0083	NCA10	1	289929	6280018	Residential	4 Lindsay Place Richmond	60	55	P	48	43	50	44	4	3.8	-	-	-	-	-	-	-
NCA10.RES.0084	NCA10	1	289980	6280025	Residential	6 Lindsay Place Richmond	60	55	P	50	44	49	44	0.7	0.6	-	-	-	-	-	-	-
NCA10.RES.0084	NCA10	2	289964	6280029	Residential	6 Lindsay Place Richmond	60	55	P	52	46	53	47	3	2.8	-	-	-	-	-	-	-
NCA10.RES.0085	NCA10	1	290006	6280059	Residential	6 Lindsay Place Richmond	60	55	P	51	45	52	46	2.8	2.5	-	-	-	-	-	-	-
NCA10.RES.0086	NCA10	1	289962	6280044	Residential	6 Lindsay Place Richmond	60	55	P	51	45	51	45	2.1	1.9	-	-	-	-	-	-	-
NCA10.RES.0087	NCA10	1	289970	6279988	Residential	8 Lindsay Place Richmond	60	54	P	48	42	50	44	3.2	3.1	-	-	-	-	-	-	-
NCA10.RES.0088	NCA10	1	289946	6279959	Residential	10 Lindsay Place Richmond	59	54	P	47	42	49	43	2.6	2.5	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA10.RES.0089	NCA10	1	289914	6279966	Residential	12 Lindsay Place Richmond	60	54	P	48	42	49	44	3	2.8	-	-	-	-	-	-	-
NCA10.RES.0090	NCA10	1	290266	6279949	Residential	1 Segenhoe Place Richmond	60	55	P	52	47	53	47	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0091	NCA10	1	290246	6279990	Residential	3 Segenhoe Place Richmond	60	55	P	50	44	51	45	0.9	0.8	-	-	-	-	-	-	-
NCA10.RES.0092	NCA10	1	290229	6280037	Residential	5 Segenhoe Place Richmond	60	55	P	50	44	50	44	1.8	1.7	-	-	-	-	-	-	-
NCA10.RES.0093	NCA10	1	290271	6280053	Residential	7 Segenhoe Place Richmond	60	55	P	50	44	50	45	1.4	1.3	-	-	-	-	-	-	-
NCA10.RES.0094	NCA10	1	290290	6280003	Residential	9 Segenhoe Place Richmond	60	55	P	49	44	50	44	1.1	1	-	-	-	-	-	-	-
NCA10.RES.0094	NCA10	2	290297	6280001	Residential	9 Segenhoe Place Richmond	60	55	P	52	47	53	47	0.4	0.3	-	-	-	-	-	-	-
NCA10.RES.0095	NCA10	1	290310	6279970	Residential	11 Segenhoe Place Richmond	60	55	P	51	46	52	46	0.4	0.3	-	-	-	-	-	-	-
NCA10.RES.0096	NCA10	1	290250	6279971	Residential	2 Segenhoe Place Richmond	60	55	P	51	46	52	46	0.9	0.9	-	-	-	-	-	-	-
NCA10.RES.0097	NCA10	1	290241	6280013	Residential	4 Segenhoe Place Richmond	60	55	P	49	43	50	44	1.6	1.5	-	-	-	-	-	-	-
NCA10.RES.0098	NCA10	1	290251	6280053	Residential	6 Segenhoe Place Richmond	60	55	P	50	44	50	45	1.1	0.9	-	-	-	-	-	-	-
NCA10.RES.0099	NCA10	1	290291	6280029	Residential	8 Segenhoe Place Richmond	60	54	P	48	42	49	43	1.5	1.4	-	-	-	-	-	-	-
NCA10.RES.0100	NCA10	1	290296	6279991	Residential	10 Segenhoe Place Richmond	60	55	P	50	45	51	45	1.1	1.1	-	-	-	-	-	-	-
NCA10.RES.0101	NCA10	1	289748	6279828	Residential	5 Silverburn Avenue Richmond	58	53	P	50	45	55	49	8.7	8.4	-	-	-	-	-	-	-
NCA10.RES.0102	NCA10	1	289722	6279849	Residential	7 Silverburn Avenue Richmond	57	52	P	50	44	55	48	9.2	9	-	-	-	-	-	-	-
NCA10.RES.0102	NCA10	2	289722	6279849	Residential	7 Silverburn Avenue Richmond	57	52	P	52	47	57	51	8.9	8.8	-	-	-	-	-	-	-
NCA10.RES.0103	NCA10	1	289687	6279890	Residential	9 Silverburn Avenue Richmond	56	51	P	50	44	55	49	9.2	9.1	-	-	-	-	-	-	-
NCA10.RES.0103	NCA10	2	289687	6279890	Residential	9 Silverburn Avenue Richmond	56	51	P	52	46	57	51	9	8.9	Y	-	-	-	-	-	Y
NCA10.RES.0104	NCA10	1	290416	6280046	Residential	3 Starlight Place Richmond	60	55	P	51	45	51	45	0.2	0.2	-	-	-	-	-	-	-
NCA10.RES.0105	NCA10	1	290396	6280084	Residential	5 Starlight Place Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0106	NCA10	1	290376	6280111	Residential	7 Starlight Place Richmond	60	55	P	49	43	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA10.RES.0107	NCA10	1	290372	6280148	Residential	9 Starlight Place Richmond	60	55	P	52	46	52	46	1.4	1.3	-	-	-	-	-	-	-
NCA10.RES.0108	NCA10	1	290416	6280168	Residential	11 Starlight Place Richmond	60	55	P	52	46	52	46	1.4	1.3	-	-	-	-	-	-	-
NCA10.RES.0109	NCA10	1	290446	6280124	Residential	13 Starlight Place Richmond	60	55	P	50	44	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0110	NCA10	1	290430	6280086	Residential	15 Starlight Place Richmond	60	55	P	49	43	50	44	0.9	0.9	-	-	-	-	-	-	-
NCA10.RES.0111	NCA10	1	290440	6280055	Residential	17 Starlight Place Richmond	60	55	P	50	44	50	44	0.7	0.7	-	-	-	-	-	-	-
NCA10.RES.0112	NCA10	1	290419	6280031	Residential	2 Starlight Place Richmond	60	55	P	52	46	52	46	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0113	NCA10	1	290403	6280067	Residential	4 Starlight Place Richmond	60	55	P	50	44	50	44	0.2	0.2	-	-	-	-	-	-	-
NCA10.RES.0114	NCA10	1	290387	6280099	Residential	6 Starlight Place Richmond	60	55	P	50	44	50	44	0.4	0.3	-	-	-	-	-	-	-
NCA10.RES.0115	NCA10	1	290349	6280141	Residential	8 Starlight Place Richmond	60	55	P	52	46	52	46	1.6	1.4	-	-	-	-	-	-	-
NCA10.RES.0116	NCA10	1	290388	6280158	Residential	10 Starlight Place Richmond	60	55	P	52	46	52	47	1.5	1.3	-	-	-	-	-	-	-
NCA10.RES.0117	NCA10	1	290413	6280126	Residential	12 Starlight Place Richmond	60	55	P	49	43	49	44	0.9	0.9	-	-	-	-	-	-	-
NCA10.RES.0118	NCA10	1	290423	6280107	Residential	14 Starlight Place Richmond	60	55	P	48	43	49	43	1.2	1.2	-	-	-	-	-	-	-
NCA10.RES.0118	NCA10	2	290425	6280101	Residential	14 Starlight Place Richmond	60	55	P	52	47	53	47	1.2	1.2	-	-	-	-	-	-	-
NCA10.RES.0119	NCA10	1	290433	6280073	Residential	16 Starlight Place Richmond	60	55	P	50	44	50	44	0.9	0.8	-	-	-	-	-	-	-
NCA10.RES.0120	NCA10	1	289852	6279769	Residential	3 Tim Whiffler Place Richmond	60	55	P	54	48	55	49	1.3	1.3	-	-	-	-	-	-	-
NCA10.RES.0121	NCA10	1	289848	6279740	Residential	5 Tim Whiffler Place Richmond	60	55	P	60	54	61	54	0.7	0.6	-	-	-	-	-	-	-
NCA10.RES.0122	NCA10	1	289788	6279720	Residential	7 Tim Whiffler Place Richmond	60	55	P	61	55	62	56	6.4	6.3	-	-	-	-	-	-	-
NCA10.RES.0123	NCA10	1	289769	6279721	Residential	9 Tim Whiffler Place Richmond	60	55	P	59	53	61	55	11.2	10.7	Y	-	-	-	-	-	Y
NCA10.RES.0124	NCA10	1	289734	6279761	Residential	11 Tim Whiffler Place Richmond	59	54	P	52	46	57	51	11.4	11.1	-	-	-	-	-	-	-
NCA10.RES.0125	NCA10	1	289751	6279793	Residential	13 Tim Whiffler Place Richmond	59	54	P	50	44	55	49	8.8	8.5	-	-	-	-	-	-	-
NCA10.RES.0126	NCA10	1	289782	6279780	Residential	15 Tim Whiffler Place Richmond	60	55	P	51	45	54	47	5.1	4.9	-	-	-	-	-	-	-
NCA10.RES.0127	NCA10	1	289787	6279813	Residential	17 Tim Whiffler Place Richmond	60	55	P	50	44	53	47	6.6	6.4	-	-	-	-	-	-	-
NCA10.RES.0128	NCA10	1	289865	6279751	Residential	2 Tim Whiffler Place Richmond	60	55	P	58	52	59	53	1.6	1.5	-	-	-	-	-	-	-
NCA10.RES.0128	NCA10	2	289865	6279751	Residential	2 Tim Whiffler Place Richmond	60	55	P	60	54	61	55	1.7	1.7	-	-	-	-	-	-	-
NCA10.RES.0129	NCA10	1	289841	6279759	Residential	4 Tim Whiffler Place Richmond	60	55	P	54	48	55	49	1.6	1.5	-	-	-	-	-	-	-
NCA10.RES.0130	NCA10	1	289819	6279734	Residential	6 Tim Whiffler Place Richmond	60	55	P	59	53	60	54	4.2	4	-	-	-	-	-	-	-
NCA10.RES.0131	NCA10	1	289780	6279725	Residential	8 Tim Whiffler Place Richmond	60	55	P	57	52	59	53	9.8	9.6	-	-	-	-	-	-	-
NCA10.RES.0132	NCA10	1	289749	6279732	Residential	10 Tim Whiffler Place Richmond	60	55	P	55	49	58	51	11.6	11.1	-	-	-	-	-	-	-
NCA10.RES.0133	NCA10	1	289724	6279774	Residential	12 Tim Whiffler Place Richmond	58	53	P	53	48	59	52	11.6	11.4	Y	-	-	-	-	-	Y
NCA10.RES.0134	NCA10	1	289773	6279781	Residential	14 Tim Whiffler Place Richmond	60	55	P	51	45	54	47	5.4	5.2	-	-	-	-	-	-	-
NCA10.RES.0135	NCA10	1	289801	6279782	Residential	16 Tim Whiffler Place Richmond	60	55	P	51	45	53	47	4.9	4.7	-	-	-	-	-	-	-
NCA10.RES.0136	NCA10	1	289801	6279823	Residential	18 Tim Whiffler Place Richmond	60	55	P	49	43	53	46	5.7	5.6	-	-	-	-	-	-	-
NCA10.RES.0137	NCA10	1	290489	6279993	Residential	1 William Cox Drive Richmond	60	55	P	61	55	62	55	0	0	-	-	-	-	-	-	-
NCA10.RES.0138	NCA10	1	290474	6279981	Residential	3 William Cox Drive Richmond	60	55	P	63	57	63	57	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0139	NCA10	1	290449	6279979	Residential	5 William Cox Drive Richmond	60	55	P	59	54	60	54	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0140	NCA10	1	290415	6279973	Residential	7 William Cox Drive Richmond	60	55	P	53	47	54	48	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0141	NCA10	1	290406	6279960	Residential	9 William Cox Drive Richmond	60	55	P	61	55	62	55	0.1	0	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA10.RES.0142	NCA10	1	290388	6279949	Residential	11 William Cox Drive Richmond	60	55	P	62	56	63	56	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0143	NCA10	1	290364	6279937	Residential	13 William Cox Drive Richmond	60	55	P	62	57	63	57	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0144	NCA10	1	290349	6279935	Residential	15 William Cox Drive Richmond	60	55	P	61	56	62	56	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0145	NCA10	1	290328	6279922	Residential	17 William Cox Drive Richmond	60	55	P	62	57	63	57	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0146	NCA10	1	290316	6279917	Residential	19 William Cox Drive Richmond	60	55	P	63	57	63	57	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0147	NCA10	1	290290	6279906	Residential	21 William Cox Drive Richmond	60	55	P	63	57	63	57	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0148	NCA10	1	290273	6279906	Residential	23 William Cox Drive Richmond	60	55	P	61	55	61	55	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0149	NCA10	1	290213	6279877	Residential	25 William Cox Drive Richmond	60	55	P	62	57	63	57	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0150	NCA10	1	290181	6279870	Residential	27 William Cox Drive Richmond	60	55	P	60	54	60	54	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0151	NCA10	1	290161	6279859	Residential	29 William Cox Drive Richmond	60	55	P	60	55	61	55	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0152	NCA10	1	290143	6279858	Residential	31 William Cox Drive Richmond	60	55	P	59	53	59	53	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0153	NCA10	1	290130	6279852	Residential	33 William Cox Drive Richmond	60	55	P	59	54	60	54	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0154	NCA10	1	290103	6279832	Residential	35 William Cox Drive Richmond	60	55	P	62	56	63	56	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0155	NCA10	1	290082	6279824	Residential	37 William Cox Drive Richmond	60	55	P	62	56	63	56	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0156	NCA10	1	290069	6279824	Residential	39 William Cox Drive Richmond	60	55	P	60	54	61	54	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0157	NCA10	1	290050	6279818	Residential	41 William Cox Drive Richmond	60	55	P	60	54	60	54	0.1	0	-	-	-	-	-	-	-
NCA10.RES.0158	NCA10	1	290038	6279806	Residential	43 William Cox Drive Richmond	60	55	P	62	57	63	57	0.1	0.1	-	-	-	-	-	-	-
NCA10.RES.0158	NCA10	2	290038	6279806	Residential	43 William Cox Drive Richmond	60	55	P	64	58	65	58	0.1	0.1	-	-	-	-	-	-	-
NCA10.RES.0159	NCA10	1	290010	6279800	Residential	45 William Cox Drive Richmond	60	55	P	61	55	62	55	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0160	NCA10	1	289990	6279791	Residential	47 William Cox Drive Richmond	60	55	P	61	56	62	56	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0161	NCA10	1	289978	6279788	Residential	49 William Cox Drive Richmond	60	55	P	61	55	62	55	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0162	NCA10	1	289950	6279783	Residential	51 William Cox Drive Richmond	60	55	P	58	53	59	53	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0163	NCA10	1	289938	6279779	Residential	53 William Cox Drive Richmond	60	55	P	57	51	58	51	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0164	NCA10	1	289926	6279768	Residential	55 William Cox Drive Richmond	60	55	P	59	54	60	54	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0165	NCA10	1	289897	6279761	Residential	57 William Cox Drive Richmond	60	55	P	57	51	57	51	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0166	NCA10	1	289883	6279779	Residential	59 William Cox Drive Richmond	60	55	P	50	44	52	46	2.9	2.8	-	-	-	-	-	-	-
NCA10.RES.0167	NCA10	1	289872	6279790	Residential	61 William Cox Drive Richmond	60	55	P	50	45	53	46	3.3	3.1	-	-	-	-	-	-	-
NCA10.RES.0168	NCA10	1	289861	6279799	Residential	63 William Cox Drive Richmond	60	55	P	51	45	53	47	3	3	-	-	-	-	-	-	-
NCA10.RES.0169	NCA10	1	289835	6279825	Residential	65 William Cox Drive Richmond	60	55	P	50	44	52	46	3.5	3.4	-	-	-	-	-	-	-
NCA10.RES.0170	NCA10	1	289819	6279844	Residential	67 William Cox Drive Richmond	60	55	P	49	44	52	46	5.1	5	-	-	-	-	-	-	-
NCA10.RES.0171	NCA10	1	289812	6279857	Residential	69 William Cox Drive Richmond	60	55	P	49	43	52	45	4.9	4.7	-	-	-	-	-	-	-
NCA10.RES.0172	NCA10	1	289797	6279865	Residential	71 William Cox Drive Richmond	59	54	P	48	43	51	45	5.3	5.2	-	-	-	-	-	-	-
NCA10.RES.0173	NCA10	1	289767	6279896	Residential	73 William Cox Drive Richmond	58	53	P	49	43	53	47	8.2	7.8	-	-	-	-	-	-	-
NCA10.RES.0174	NCA10	1	289760	6279909	Residential	75 William Cox Drive Richmond	58	53	P	48	42	52	46	8	7.8	-	-	-	-	-	-	-
NCA10.RES.0175	NCA10	1	289754	6279914	Residential	77 William Cox Drive Richmond	58	53	P	47	42	51	45	6.9	6.8	-	-	-	-	-	-	-
NCA10.RES.0176	NCA10	1	289739	6279924	Residential	79 William Cox Drive Richmond	57	52	P	48	43	52	45	6.9	6.6	-	-	-	-	-	-	-
NCA10.RES.0177	NCA10	1	289729	6279942	Residential	81 William Cox Drive Richmond	57	52	P	48	42	51	45	8	7.6	-	-	-	-	-	-	-
NCA10.RES.0178	NCA10	1	289720	6279949	Residential	83 William Cox Drive Richmond	57	52	P	48	42	51	45	7.9	7.6	-	-	-	-	-	-	-
NCA10.RES.0179	NCA10	1	289710	6279958	Residential	85 William Cox Drive Richmond	57	52	P	48	42	51	45	8.1	7.7	-	-	-	-	-	-	-
NCA10.RES.0180	NCA10	1	289700	6279983	Residential	87 William Cox Drive Richmond	56	51	P	49	43	53	47	9	8.7	-	-	-	-	-	-	-
NCA10.RES.0181	NCA10	1	289705	6280007	Residential	91 William Cox Drive Richmond	56	51	P	50	45	53	47	7.8	7.4	-	-	-	-	-	-	-
NCA10.RES.0182	NCA10	1	289722	6280022	Residential	93 William Cox Drive Richmond	57	52	P	50	45	53	47	6.4	6	-	-	-	-	-	-	-
NCA10.RES.0183	NCA10	1	289732	6280031	Residential	95 William Cox Drive Richmond	57	52	P	51	45	54	48	6.5	6	-	-	-	-	-	-	-
NCA10.RES.0184	NCA10	1	289744	6280040	Residential	97 William Cox Drive Richmond	57	52	P	51	45	54	48	6.3	5.8	-	-	-	-	-	-	-
NCA10.RES.0184	NCA10	2	289744	6280040	Residential	97 William Cox Drive Richmond	57	52	P	52	46	55	49	6	5.6	-	-	-	-	-	-	-
NCA10.RES.0185	NCA10	1	289784	6280078	Residential	103 William Cox Drive Richmond	58	53	P	50	45	53	47	6.5	6.1	-	-	-	-	-	-	-
NCA10.RES.0186	NCA10	1	289803	6280087	Residential	105 William Cox Drive Richmond	59	54	P	51	45	52	47	3.5	3.2	-	-	-	-	-	-	-
NCA10.RES.0187	NCA10	1	289842	6280091	Residential	107 William Cox Drive Richmond	59	54	P	51	46	53	47	3.9	3.6	-	-	-	-	-	-	-
NCA10.RES.0188	NCA10	1	289908	6280118	Residential	109 William Cox Drive Richmond	60	55	P	52	46	52	47	2.8	2.5	-	-	-	-	-	-	-
NCA10.RES.0189	NCA10	1	290467	6280039	Residential	2 William Cox Drive Richmond	60	55	P	54	48	54	48	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0190	NCA10	1	290455	6280032	Residential	4 William Cox Drive Richmond	60	55	P	53	48	54	48	0.2	0.1	-	-	-	-	-	-	-
NCA10.RES.0191	NCA10	1	290402	6280006	Residential	6 William Cox Drive Richmond	60	55	P	52	46	52	46	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0192	NCA10	1	290418	6280012	Residential	6 William Cox Drive Richmond	60	55	P	52	46	53	47	0.3	0.2	-	-	-	-	-	-	-
NCA10.RES.0193	NCA10	1	290147	6280183	Residential	16 William Cox Drive Richmond	60	55	P	53	47	53	48	1.6	1.4	-	-	-	-	-	-	-
NCA10.RES.0193	NCA10	2	290147	6280183	Residential	16 William Cox Drive Richmond	60	55	P	54	48	54	48	1.6	1.4	-	-	-	-	-	-	-
NCA10.RES.0193	NCA10	3	290147	6280183	Residential	16 William Cox Drive Richmond	60	55	P	54	48	54	49	1.6	1.4	-	-	-	-	-	-	-
NCA10.RES.0194	NCA10	1	290185	6279921	Residential	18 William Cox Drive Richmond	60	55	P	52	47	53	47	0.4	0.3	-	-	-	-	-	-	-
NCA10.RES.0195	NCA10	1	290137	6279901	Residential	20 William Cox Drive Richmond	60	55	P	52	46	53	46	0.4	0.3	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA10.RES.0196	NCA10	1	290110	6279892	Residential	22 William Cox Drive Richmond	60	55	P	52	46	52	46	0.5	0.5	-	-	-	-	-	-	-
NCA10.RES.0197	NCA10	1	290096	6279887	Residential	24 William Cox Drive Richmond	60	55	P	51	46	52	46	0.6	0.5	-	-	-	-	-	-	-
NCA10.RES.0198	NCA10	1	290075	6279879	Residential	26 William Cox Drive Richmond	60	55	P	51	46	52	46	0.6	0.5	-	-	-	-	-	-	-
NCA10.RES.0199	NCA10	1	290063	6279874	Residential	28 William Cox Drive Richmond	60	55	P	51	45	52	46	0.7	0.7	-	-	-	-	-	-	-
NCA10.RES.0200	NCA10	1	290037	6279864	Residential	30 William Cox Drive Richmond	60	55	P	50	45	52	45	0.8	0.7	-	-	-	-	-	-	-
NCA10.RES.0201	NCA10	1	290023	6279858	Residential	32 William Cox Drive Richmond	60	55	P	51	45	52	45	0.9	0.8	-	-	-	-	-	-	-
NCA10.RES.0202	NCA10	1	289999	6279848	Residential	34 William Cox Drive Richmond	60	55	P	51	45	52	46	0.9	0.9	-	-	-	-	-	-	-
NCA10.RES.0203	NCA10	1	289973	6279838	Residential	36 William Cox Drive Richmond	60	55	P	50	45	52	45	1.1	1	-	-	-	-	-	-	-
NCA10.RES.0204	NCA10	1	289959	6279833	Residential	38 William Cox Drive Richmond	60	55	P	51	45	52	46	1.2	1.1	-	-	-	-	-	-	-
NCA10.RES.0205	NCA10	1	289944	6279830	Residential	40 William Cox Drive Richmond	60	55	P	51	45	52	46	1.3	1.2	-	-	-	-	-	-	-
NCA10.RES.0206	NCA10	1	289927	6279828	Residential	42 William Cox Drive Richmond	60	55	P	50	45	52	46	1.7	1.6	-	-	-	-	-	-	-
NCA10.RES.0207	NCA10	1	289899	6279835	Residential	44 William Cox Drive Richmond	60	55	P	50	44	52	46	2.8	2.7	-	-	-	-	-	-	-
NCA10.RES.0207	NCA10	2	289910	6279831	Residential	44 William Cox Drive Richmond	60	55	P	53	47	55	49	2	1.9	-	-	-	-	-	-	-
NCA10.RES.0208	NCA10	1	289886	6279845	Residential	46 William Cox Drive Richmond	60	55	P	50	44	52	46	3.5	3.3	-	-	-	-	-	-	-
NCA10.RES.0209	NCA10	1	289874	6279854	Residential	48 William Cox Drive Richmond	60	55	P	50	44	52	46	3.9	3.8	-	-	-	-	-	-	-
NCA10.RES.0210	NCA10	1	289855	6279874	Residential	50 William Cox Drive Richmond	60	55	P	49	44	52	46	4.6	4.4	-	-	-	-	-	-	-
NCA10.RES.0211	NCA10	1	289850	6279881	Residential	52 William Cox Drive Richmond	60	55	P	49	43	52	46	4.7	4.5	-	-	-	-	-	-	-
NCA10.RES.0212	NCA10	1	289833	6279900	Residential	54 William Cox Drive Richmond	59	54	P	49	43	52	46	5.3	5.1	-	-	-	-	-	-	-
NCA10.RES.0213	NCA10	1	289820	6279913	Residential	56 William Cox Drive Richmond	59	54	P	49	43	52	46	5.9	5.6	-	-	-	-	-	-	-
NCA10.RES.0214	NCA10	1	289815	6279918	Residential	58 William Cox Drive Richmond	59	54	P	49	43	52	46	6.1	5.9	-	-	-	-	-	-	-
NCA10.RES.0215	NCA10	1	289802	6279932	Residential	60 William Cox Drive Richmond	59	54	P	49	43	52	46	6.4	6.2	-	-	-	-	-	-	-
NCA10.RES.0216	NCA10	1	289790	6279946	Residential	62 William Cox Drive Richmond	58	53	P	49	43	52	46	6.5	6.4	-	-	-	-	-	-	-
NCA10.RES.0217	NCA10	1	289780	6279955	Residential	64 William Cox Drive Richmond	58	53	P	48	43	52	46	7	6.8	-	-	-	-	-	-	-
NCA10.RES.0218	NCA10	1	289755	6279976	Residential	66 William Cox Drive Richmond	57	52	P	48	42	52	46	8.2	7.9	-	-	-	-	-	-	-
NCA10.RES.0219	NCA10	1	289768	6279998	Residential	68 William Cox Drive Richmond	58	53	P	49	43	51	45	5.3	4.8	-	-	-	-	-	-	-
NCA10.RES.0220	NCA10	1	289773	6280003	Residential	70 William Cox Drive Richmond	58	53	P	49	43	52	46	5.4	4.9	-	-	-	-	-	-	-
NCA10.RES.0221	NCA10	1	289790	6280018	Residential	72 William Cox Drive Richmond	58	53	P	49	44	52	46	5.2	4.9	-	-	-	-	-	-	-
NCA10.RES.0222	NCA10	1	289854	6280050	Residential	78 William Cox Drive Richmond	59	54	P	50	44	51	45	2.5	2.3	-	-	-	-	-	-	-
NCA10.RES.0223	NCA10	1	289879	6280051	Residential	80 William Cox Drive Richmond	60	55	P	51	45	52	46	3.3	3	-	-	-	-	-	-	-
NCA12.OCC.0297	NCA12	1	290768	6279318	Other (Childcare)	24 Laurence Street Hobartville	45	-	H	46	44	47	44	0.9	0.7	-	-	-	-	-	-	-
NCA12.OED.0048	NCA12	1	290539	6279593	Other (Educational)	15 Catchpole Avenue Hobartville	50	-	H	47	45	48	45	1.1	1	-	-	-	-	-	-	-
NCA12.OED.0049	NCA12	1	290553	6279569	Other (Educational)	19 Catchpole Avenue Hobartville	50	-	H	47	45	47	45	1	0.9	-	-	-	-	-	-	-
NCA12.OED.0621	NCA12	1	290439	6279520	Other (Educational)	26 Thompson Avenue Hobartville	50	-	H	48	45	49	46	1.3	1.2	-	-	-	-	-	-	-
NCA12.OED.0634	NCA12	1	290505	6279595	Other (Educational)	25 Valder Avenue Hobartville	50	-	H	48	45	48	46	1.1	1	-	-	-	-	-	-	-
NCA12.OED.0653	NCA12	1	290472	6279504	Other (Educational)	16 Valder Avenue Hobartville	50	-	H	46	44	47	45	1.1	1	-	-	-	-	-	-	-
NCA12.OED.0654	NCA12	1	290533	6279549	Other (Educational)	16 Valder Avenue Hobartville	50	-	H	47	44	47	45	1.3	1.2	-	-	-	-	-	-	-
NCA12.OED.0654	NCA12	2	290541	6279552	Other (Educational)	16 Valder Avenue Hobartville	50	-	H	49	46	49	47	1.4	1.2	-	-	-	-	-	-	-
NCA12.OOA.0290	NCA12	1	290612	6279319	Other (Outdoor Active)	35 Laurence Street Hobartville	60	-	P	43	38	44	38	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0001	NCA12	1	290384	6278985	Residential	1 Anderson Avenue Hobartville	60	55	P	52	47	55	50	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0002	NCA12	1	290405	6279002	Residential	3 Anderson Avenue Hobartville	59	54	P	47	42	49	44	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0003	NCA12	1	290412	6278978	Residential	6 Anderson Avenue Hobartville	60	55	P	49	44	51	46	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0003	NCA12	2	290414	6278973	Residential	6 Anderson Avenue Hobartville	60	55	P	52	46	54	49	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0004	NCA12	1	290334	6279428	Residential	1 Atkins Crescent Hobartville	56	51	P	44	39	46	40	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0004	NCA12	2	290335	6279437	Residential	1 Atkins Crescent Hobartville	59	54	P	47	42	49	43	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0005	NCA12	1	290364	6279443	Residential	3 Atkins Crescent Hobartville	57	52	P	45	40	47	41	1.4	1.2	-	-	-	-	-	-	-
NCA12.RES.0006	NCA12	1	290406	6279418	Residential	5 Atkins Crescent Hobartville	56	51	P	44	39	46	40	1.2	1	-	-	-	-	-	-	-
NCA12.RES.0007	NCA12	1	290420	6279393	Residential	7 Atkins Crescent Hobartville	57	52	P	45	40	46	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0008	NCA12	1	290434	6279369	Residential	9 Atkins Crescent Hobartville	57	51	P	45	39	47	41	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0009	NCA12	1	290438	6279337	Residential	11 Atkins Crescent Hobartville	57	52	P	45	40	46	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0010	NCA12	1	290426	6279309	Residential	13 Atkins Crescent Hobartville	57	52	P	45	40	46	40	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0011	NCA12	1	290350	6279437	Residential	2 Atkins Crescent Hobartville	57	51	P	45	39	46	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0012	NCA12	1	290386	6279446	Residential	4 Atkins Crescent Hobartville	57	51	P	45	39	46	40	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0013	NCA12	1	290409	6279410	Residential	6 Atkins Crescent Hobartville	57	51	P	45	39	46	41	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0014	NCA12	1	290429	6279379	Residential	8 Atkins Crescent Hobartville	57	51	P	45	39	46	41	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0015	NCA12	1	290441	6279350	Residential	10 Atkins Crescent Hobartville	57	52	P	45	40	47	41	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0016	NCA12	1	290432	6279319	Residential	12 Atkins Crescent Hobartville	57	51	P	45	39	46	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0017	NCA12	1	290017	6279451	Residential	1 Bell Avenue Hobartville	60	55	P	48	43	50	44	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0018	NCA12	1	290017	6279433	Residential	3 Bell Avenue Hobartville	60	55	P	48	43	51	45	1.1	1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0019	NCA12	1	290025	6279413	Residential	5 Bell Avenue Hobartville	60	55	P	49	44	52	46	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0020	NCA12	1	290022	6279394	Residential	7 Bell Avenue Hobartville	60	55	P	53	48	56	50	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0021	NCA12	1	290069	6279448	Residential	2 Bell Avenue Hobartville	60	55	P	48	43	50	44	1.2	1	-	-	-	-	-	-	-
NCA12.RES.0022	NCA12	1	290068	6279420	Residential	4 Bell Avenue Hobartville	60	55	P	49	43	51	45	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0023	NCA12	1	290070	6279393	Residential	6 Bell Avenue Hobartville	60	55	P	49	44	52	46	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0026	NCA12	1	290385	6279887	Residential	23 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0027	NCA12	1	290357	6279875	Residential	25 Castlereagh Road Hobartville	60	55	P	63	57	64	57	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0028	NCA12	1	290320	6279862	Residential	27 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0029	NCA12	1	290296	6279850	Residential	29 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0030	NCA12	1	290281	6279845	Residential	31 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0031	NCA12	1	290242	6279829	Residential	33 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0032	NCA12	1	290208	6279816	Residential	35 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0033	NCA12	1	290193	6279810	Residential	37 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0034	NCA12	1	290166	6279798	Residential	39 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0035	NCA12	1	290137	6279786	Residential	41 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0036	NCA12	1	290120	6279779	Residential	43 Castlereagh Road Hobartville	60	55	P	63	57	64	57	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0037	NCA12	1	290080	6279764	Residential	45 Castlereagh Road Hobartville	60	55	P	63	57	63	57	0.1	0.1	-	-	-	-	-	-	-
NCA12.RES.0038	NCA12	1	290060	6279756	Residential	47 Castlereagh Road Hobartville	60	55	P	63	57	64	57	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0039	NCA12	1	290037	6279752	Residential	49 Castlereagh Road Hobartville	60	55	P	64	59	65	59	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0039	NCA12	2	290037	6279752	Residential	49 Castlereagh Road Hobartville	60	55	P	66	60	67	60	0.1	0.1	-	-	-	-	-	-	-
NCA12.RES.0040	NCA12	1	289996	6279729	Residential	51 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0041	NCA12	1	289981	6279723	Residential	53 Castlereagh Road Hobartville	60	55	P	63	58	64	58	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0042	NCA12	1	289925	6279703	Residential	57 Castlereagh Road Hobartville	60	55	P	64	58	64	58	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0043	NCA12	1	289887	6279689	Residential	59 Castlereagh Road Hobartville	60	55	P	64	58	64	58	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0043	NCA12	2	289887	6279689	Residential	59 Castlereagh Road Hobartville	60	55	P	65	60	66	60	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0044	NCA12	1	289867	6279683	Residential	61 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0045	NCA12	1	289828	6279671	Residential	63 Castlereagh Road Hobartville	60	55	P	64	58	65	58	3	3	-	-	Y	-	-	-	Y
NCA12.RES.0046	NCA12	1	289807	6279665	Residential	65 Castlereagh Road Hobartville	60	55	P	64	58	65	58	5.5	5.3	-	-	Y	-	-	-	Y
NCA12.RES.0047	NCA12	1	289787	6279659	Residential	67 Castlereagh Road Hobartville	60	55	P	64	58	65	59	7.7	7.5	-	-	Y	-	-	-	Y
NCA12.RES.0047	NCA12	2	289787	6279659	Residential	67 Castlereagh Road Hobartville	60	55	P	65	60	67	60	7.4	7.3	-	-	Y	Y	Y	Y	Y
NCA12.RES.0050	NCA12	1	290391	6279804	Residential	2 Catchpole Avenue Hobartville	60	55	P	49	43	50	44	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0051	NCA12	1	290402	6279791	Residential	4 Catchpole Avenue Hobartville	60	54	P	48	42	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0052	NCA12	1	290387	6279765	Residential	6 Catchpole Avenue Hobartville	59	53	P	47	41	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0053	NCA12	1	290418	6279755	Residential	8 Catchpole Avenue Hobartville	59	53	P	47	41	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0054	NCA12	1	290425	6279739	Residential	10 Catchpole Avenue Hobartville	59	53	P	47	41	47	41	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0055	NCA12	1	290439	6279721	Residential	12 Catchpole Avenue Hobartville	59	53	P	47	41	47	41	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0056	NCA12	1	290443	6279711	Residential	14 Catchpole Avenue Hobartville	59	53	P	47	41	47	41	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0057	NCA12	1	290452	6279698	Residential	16 Catchpole Avenue Hobartville	59	53	P	47	41	47	41	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0058	NCA12	1	290461	6279683	Residential	18 Catchpole Avenue Hobartville	58	53	P	46	41	47	41	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0059	NCA12	1	290475	6279671	Residential	20 Catchpole Avenue Hobartville	58	53	P	46	41	47	41	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0060	NCA12	1	290280	6279259	Residential	1 Clarke Avenue Hobartville	57	52	P	45	40	47	41	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0061	NCA12	1	290269	6279255	Residential	3 Clarke Avenue Hobartville	58	52	P	46	40	47	41	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0062	NCA12	1	290258	6279234	Residential	5 Clarke Avenue Hobartville	58	53	P	46	41	48	42	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0063	NCA12	1	290243	6279255	Residential	7 Clarke Avenue Hobartville	58	52	P	46	40	48	42	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0064	NCA12	1	290228	6279273	Residential	9 Clarke Avenue Hobartville	58	52	P	46	40	48	42	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0065	NCA12	1	290225	6279281	Residential	11 Clarke Avenue Hobartville	58	52	P	46	40	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0066	NCA12	1	290207	6279296	Residential	13 Clarke Avenue Hobartville	58	52	P	46	40	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0067	NCA12	1	290199	6279310	Residential	15 Clarke Avenue Hobartville	58	52	P	46	40	48	42	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0068	NCA12	1	290189	6279319	Residential	17 Clarke Avenue Hobartville	58	53	P	46	41	48	42	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0069	NCA12	1	290175	6279335	Residential	19 Clarke Avenue Hobartville	58	53	P	46	41	48	43	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0070	NCA12	1	290172	6279351	Residential	21 Clarke Avenue Hobartville	58	53	P	46	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0071	NCA12	1	290164	6279363	Residential	23 Clarke Avenue Hobartville	59	53	P	47	41	49	43	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0072	NCA12	1	290311	6279233	Residential	2 Clarke Avenue Hobartville	57	52	P	45	40	47	41	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0073	NCA12	1	290300	6279224	Residential	4 Clarke Avenue Hobartville	58	52	P	46	40	47	41	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0074	NCA12	1	290283	6279200	Residential	6 Clarke Avenue Hobartville	58	52	P	46	40	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0075	NCA12	1	290247	6279175	Residential	8 Clarke Avenue Hobartville	58	53	P	46	41	49	43	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0076	NCA12	1	290238	6279186	Residential	10 Clarke Avenue Hobartville	58	53	P	46	41	49	43	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0077	NCA12	1	290229	6279197	Residential	12 Clarke Avenue Hobartville	58	53	P	46	41	48	43	0.4	0.3	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0078	NCA12	1	290215	6279211	Residential	14 Clarke Avenue Hobartville	58	53	P	46	41	48	43	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0079	NCA12	1	290205	6279221	Residential	16 Clarke Avenue Hobartville	59	54	P	47	42	49	44	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0080	NCA12	1	290203	6279235	Residential	18 Clarke Avenue Hobartville	58	53	P	46	41	48	42	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0081	NCA12	1	290188	6279245	Residential	20 Clarke Avenue Hobartville	57	52	P	45	40	48	42	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0082	NCA12	1	290175	6279255	Residential	22 Clarke Avenue Hobartville	58	53	P	46	41	49	43	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0083	NCA12	1	290170	6279272	Residential	24 Clarke Avenue Hobartville	57	52	P	45	40	47	42	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0084	NCA12	1	290160	6279284	Residential	26 Clarke Avenue Hobartville	57	52	P	45	40	47	42	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0085	NCA12	1	290146	6279290	Residential	28 Clarke Avenue Hobartville	58	52	P	46	40	48	42	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0086	NCA12	1	290133	6279305	Residential	30 Clarke Avenue Hobartville	58	53	P	46	41	49	43	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0086	NCA12	2	290133	6279305	Residential	30 Clarke Avenue Hobartville	60	55	P	50	44	53	47	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0087	NCA12	1	290128	6279316	Residential	32 Clarke Avenue Hobartville	59	53	P	47	41	49	43	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0088	NCA12	1	290122	6279340	Residential	34 Clarke Avenue Hobartville	58	53	P	46	41	48	42	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0089	NCA12	1	290127	6279375	Residential	36 Clarke Avenue Hobartville	60	54	P	48	42	50	44	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0090	NCA12	1	290255	6279396	Residential	1 Cornwell Avenue Hobartville	58	52	P	46	40	48	42	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0091	NCA12	1	290259	6279385	Residential	3 Cornwell Avenue Hobartville	58	53	P	46	41	48	42	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0092	NCA12	1	290266	6279366	Residential	5 Cornwell Avenue Hobartville	58	53	P	46	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0093	NCA12	1	290280	6279346	Residential	7 Cornwell Avenue Hobartville	57	51	P	45	39	47	41	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0093	NCA12	2	290280	6279346	Residential	7 Cornwell Avenue Hobartville	59	54	P	47	42	49	43	1.4	1.2	-	-	-	-	-	-	-
NCA12.RES.0094	NCA12	1	290294	6279327	Residential	9 Cornwell Avenue Hobartville	57	52	P	45	40	47	41	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0095	NCA12	1	290304	6279316	Residential	11 Cornwell Avenue Hobartville	57	52	P	45	40	47	41	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0096	NCA12	1	290318	6279300	Residential	13 Cornwell Avenue Hobartville	57	52	P	45	40	47	42	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0097	NCA12	1	290334	6279282	Residential	15 Cornwell Avenue Hobartville	57	52	P	45	40	47	42	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0098	NCA12	1	290343	6279273	Residential	17 Cornwell Avenue Hobartville	57	52	P	45	40	47	41	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0099	NCA12	1	290355	6279259	Residential	19 Cornwell Avenue Hobartville	57	51	P	45	39	47	41	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0100	NCA12	1	290374	6279243	Residential	21 Cornwell Avenue Hobartville	57	52	P	45	40	47	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0101	NCA12	1	290388	6279235	Residential	23 Cornwell Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0101	NCA12	2	290388	6279235	Residential	23 Cornwell Avenue Hobartville	58	53	P	46	41	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0102	NCA12	1	290397	6279222	Residential	25 Cornwell Avenue Hobartville	56	51	P	44	39	46	41	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0103	NCA12	1	290404	6279214	Residential	27 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0104	NCA12	1	290414	6279203	Residential	29 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0105	NCA12	1	290426	6279188	Residential	31 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0106	NCA12	1	290442	6279170	Residential	33 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0107	NCA12	1	290449	6279162	Residential	35 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0108	NCA12	1	290462	6279145	Residential	37 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0109	NCA12	1	290201	6279381	Residential	2 Cornwell Avenue Hobartville	59	53	P	47	41	49	43	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0110	NCA12	1	290215	6279364	Residential	4 Cornwell Avenue Hobartville	58	52	P	46	40	47	42	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0111	NCA12	1	290217	6279348	Residential	6 Cornwell Avenue Hobartville	58	52	P	46	40	47	42	1.4	1.2	-	-	-	-	-	-	-
NCA12.RES.0112	NCA12	1	290228	6279328	Residential	8 Cornwell Avenue Hobartville	58	52	P	46	40	47	42	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0113	NCA12	1	290234	6279317	Residential	10 Cornwell Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0114	NCA12	1	290249	6279302	Residential	12 Cornwell Avenue Hobartville	57	52	P	45	40	47	41	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0115	NCA12	1	290255	6279287	Residential	14 Cornwell Avenue Hobartville	57	52	P	45	40	47	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0116	NCA12	1	290273	6279281	Residential	16 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0117	NCA12	1	290302	6279278	Residential	18 Cornwell Avenue Hobartville	57	51	P	45	39	46	40	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0118	NCA12	1	290322	6279243	Residential	20 Cornwell Avenue Hobartville	57	52	P	45	40	47	41	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0119	NCA12	1	290334	6279218	Residential	22 Cornwell Avenue Hobartville	57	51	P	45	39	46	41	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0120	NCA12	1	290341	6279199	Residential	24 Cornwell Avenue Hobartville	57	51	P	45	39	47	41	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0121	NCA12	1	290353	6279189	Residential	26 Cornwell Avenue Hobartville	56	51	P	44	39	46	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0122	NCA12	1	290365	6279178	Residential	28 Cornwell Avenue Hobartville	56	51	P	44	39	46	41	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0123	NCA12	1	290375	6279168	Residential	30 Cornwell Avenue Hobartville	56	51	P	44	39	46	41	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0124	NCA12	1	290387	6279153	Residential	32 Cornwell Avenue Hobartville	56	51	P	44	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0125	NCA12	1	290400	6279146	Residential	34 Cornwell Avenue Hobartville	56	51	P	44	39	46	40	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0126	NCA12	1	290407	6279137	Residential	36 Cornwell Avenue Hobartville	56	51	P	44	39	46	41	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0127	NCA12	1	290415	6279131	Residential	38 Cornwell Avenue Hobartville	56	50	P	44	38	46	40	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0128	NCA12	1	290426	6279106	Residential	40 Cornwell Avenue Hobartville	56	51	P	44	39	46	40	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0129	NCA12	1	290436	6279099	Residential	42 Cornwell Avenue Hobartville	56	51	P	44	39	46	40	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0130	NCA12	1	290723	6279034	Residential	1 Day Avenue Hobartville	55	50	P	43	38	45	39	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0130	NCA12	2	290723	6279034	Residential	1 Day Avenue Hobartville	58	53	P	46	41	47	42	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0131	NCA12	1	290712	6279046	Residential	3 Day Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.6	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0132	NCA12	1	290704	6279058	Residential	5 Day Avenue Hobartville	56	51	P	44	39	45	40	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0133	NCA12	1	290694	6279072	Residential	7 Day Avenue Hobartville	56	51	P	44	39	45	40	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0134	NCA12	1	290693	6279105	Residential	9 Day Avenue Hobartville	57	52	P	45	40	46	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0135	NCA12	1	290658	6279087	Residential	11 Day Avenue Hobartville	57	51	P	45	39	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0136	NCA12	1	290717	6278986	Residential	2 Day Avenue Hobartville	58	53	P	46	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0137	NCA12	1	290700	6279019	Residential	4 Day Avenue Hobartville	57	52	P	45	40	46	41	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0138	NCA12	1	290687	6279023	Residential	6 Day Avenue Hobartville	56	51	P	44	39	45	40	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0139	NCA12	1	290678	6279037	Residential	8 Day Avenue Hobartville	57	52	P	45	40	45	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0140	NCA12	1	290667	6279044	Residential	10 Day Avenue Hobartville	57	51	P	45	39	45	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0141	NCA12	1	290647	6279059	Residential	12 Day Avenue Hobartville	57	51	P	45	39	46	40	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0143	NCA12	1	290395	6279862	Residential	29 Douglas Street Hobartville	60	55	P	50	44	51	45	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0144	NCA12	1	290386	6279852	Residential	31 Douglas Street Hobartville	60	55	P	50	45	51	45	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0145	NCA12	1	290368	6279846	Residential	33 Douglas Street Hobartville	60	55	P	49	44	50	44	0.5	0.5	-	-	-	-	-	-	-
NCA12.RES.0146	NCA12	1	290351	6279840	Residential	35 Douglas Street Hobartville	60	55	P	50	45	51	45	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0146	NCA12	2	290351	6279840	Residential	35 Douglas Street Hobartville	60	55	P	55	50	56	50	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0147	NCA12	1	290329	6279837	Residential	37 Douglas Street Hobartville	60	55	P	53	47	53	47	0.3	0.3	-	-	-	-	-	-	-
NCA12.RES.0148	NCA12	1	290319	6279825	Residential	39 Douglas Street Hobartville	60	55	P	51	46	52	46	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0149	NCA12	1	290306	6279817	Residential	41 Douglas Street Hobartville	60	55	P	51	45	51	45	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0150	NCA12	1	290285	6279816	Residential	43 Douglas Street Hobartville	60	55	P	53	48	54	48	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0151	NCA12	1	290253	6279804	Residential	45 Douglas Street Hobartville	60	55	P	55	50	56	50	0.1	0.1	-	-	-	-	-	-	-
NCA12.RES.0152	NCA12	1	290228	6279796	Residential	47 Douglas Street Hobartville	60	55	P	51	45	51	45	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0153	NCA12	1	290236	6279793	Residential	47 Douglas Street Hobartville	60	55	P	52	47	53	47	0.3	0.3	-	-	-	-	-	-	-
NCA12.RES.0154	NCA12	1	290197	6279782	Residential	49 Douglas Street Hobartville	60	55	P	50	45	51	45	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0155	NCA12	1	290280	6279757	Residential	46 Douglas Street Hobartville	60	55	P	51	45	51	45	0.5	0.5	-	-	-	-	-	-	-
NCA12.RES.0156	NCA12	1	290854	6279152	Residential	1 Ducker Avenue Hobartville	57	52	P	45	40	46	40	0.5	0.3	-	-	-	-	-	-	-
NCA12.RES.0157	NCA12	1	290845	6279163	Residential	3 Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.5	0.3	-	-	-	-	-	-	-
NCA12.RES.0158	NCA12	1	290832	6279172	Residential	5 Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0158	NCA12	2	290832	6279172	Residential	5 Ducker Avenue Hobartville	58	53	P	46	41	47	41	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0159	NCA12	1	290824	6279192	Residential	7 Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0160	NCA12	1	290811	6279201	Residential	9 Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0161	NCA12	1	290796	6279248	Residential	11A Ducker Avenue Hobartville	56	51	P	44	39	45	39	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0162	NCA12	1	290804	6279213	Residential	11 Ducker Avenue Hobartville	56	51	P	44	39	45	39	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0163	NCA12	1	290773	6279219	Residential	13A Ducker Avenue Hobartville	55	50	P	43	38	45	39	0.5	0.3	-	-	-	-	-	-	-
NCA12.RES.0164	NCA12	1	290832	6279134	Residential	2 Ducker Avenue Hobartville	57	52	P	45	40	46	41	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0165	NCA12	1	290818	6279148	Residential	4 Ducker Avenue Hobartville	57	52	P	45	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0166	NCA12	1	290812	6279155	Residential	6 Ducker Avenue Hobartville	57	52	P	45	40	45	40	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0167	NCA12	1	290799	6279167	Residential	8 Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0168	NCA12	1	290748	6279176	Residential	10A Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0169	NCA12	1	290772	6279167	Residential	10 Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0170	NCA12	1	290755	6279204	Residential	12 Ducker Avenue Hobartville	56	51	P	44	39	45	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0171	NCA12	1	290893	6279192	Residential	2 Harold Avenue Hobartville	57	52	P	45	40	46	41	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0172	NCA12	1	290886	6279200	Residential	4 Harold Avenue Hobartville	57	52	P	45	40	46	40	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0173	NCA12	1	290878	6279214	Residential	6 Harold Avenue Hobartville	57	52	P	45	40	46	41	0.5	0.3	-	-	-	-	-	-	-
NCA12.RES.0174	NCA12	1	290861	6279225	Residential	8 Harold Avenue Hobartville	57	52	P	45	40	45	40	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0175	NCA12	1	290852	6279237	Residential	10 Harold Avenue Hobartville	57	52	P	45	40	46	40	0.5	0.3	-	-	-	-	-	-	-
NCA12.RES.0176	NCA12	1	290840	6279248	Residential	12 Harold Avenue Hobartville	57	51	P	45	39	45	40	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0177	NCA12	1	290832	6279262	Residential	14 Harold Avenue Hobartville	57	52	P	45	40	45	40	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0178	NCA12	1	290822	6279272	Residential	16 Harold Avenue Hobartville	57	52	P	45	40	45	40	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0179	NCA12	1	290303	6279182	Residential	1 Hill Avenue Hobartville	58	53	P	46	41	48	43	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0180	NCA12	1	290323	6279171	Residential	3 Hill Avenue Hobartville	58	53	P	46	41	48	43	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0181	NCA12	1	290274	6279140	Residential	2 Hill Avenue Hobartville	60	55	P	48	43	51	45	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0182	NCA12	1	290280	6279144	Residential	4 Hill Avenue Hobartville	60	55	P	48	43	50	45	0.1	0.1	-	-	-	-	-	-	-
NCA12.RES.0183	NCA12	1	290330	6279493	Residential	1 Holborrow Avenue Hobartville	58	52	P	46	40	46	41	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0184	NCA12	1	290303	6279502	Residential	3 Holborrow Avenue Hobartville	57	51	P	45	39	46	41	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0185	NCA12	1	290298	6279513	Residential	5 Holborrow Avenue Hobartville	58	52	P	46	40	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0186	NCA12	1	290280	6279539	Residential	7 Holborrow Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0187	NCA12	1	290276	6279581	Residential	9 Holborrow Avenue Hobartville	58	53	P	46	41	47	41	1.1	1.1	-	-	-	-	-	-	-
NCA12.RES.0188	NCA12	1	290248	6279589	Residential	11 Holborrow Avenue Hobartville	59	53	P	47	41	48	42	1.5	1.4	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0189	NCA12	1	290250	6279598	Residential	13 Holborrow Avenue Hobartville	58	53	P	46	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0190	NCA12	1	290243	6279635	Residential	15 Holborrow Avenue Hobartville	60	54	P	48	42	49	43	1.2	1.2	-	-	-	-	-	-	-
NCA12.RES.0191	NCA12	1	290204	6279665	Residential	17 Holborrow Avenue Hobartville	60	55	P	49	43	50	44	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0192	NCA12	1	290192	6279640	Residential	17 Holborrow Avenue Hobartville	57	52	P	45	40	47	41	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0193	NCA12	1	290182	6279648	Residential	19 Holborrow Avenue Hobartville	59	53	P	47	41	48	42	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0193	NCA12	2	290183	6279653	Residential	19 Holborrow Avenue Hobartville	60	55	P	51	45	52	46	1.3	1.3	-	-	-	-	-	-	-
NCA12.RES.0194	NCA12	1	290178	6279669	Residential	19 Holborrow Avenue Hobartville	60	55	P	49	44	50	44	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0195	NCA12	1	290164	6279667	Residential	21 Holborrow Avenue Hobartville	60	55	P	49	44	50	44	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0196	NCA12	1	290147	6279663	Residential	23 Holborrow Avenue Hobartville	60	55	P	49	44	50	44	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0197	NCA12	1	290128	6279656	Residential	25 Holborrow Avenue Hobartville	60	55	P	49	44	50	44	1.3	1.3	-	-	-	-	-	-	-
NCA12.RES.0198	NCA12	1	290113	6279651	Residential	27 Holborrow Avenue Hobartville	60	55	P	49	44	50	44	1.4	1.4	-	-	-	-	-	-	-
NCA12.RES.0199	NCA12	1	290051	6279628	Residential	29 Holborrow Avenue Hobartville	60	55	P	50	44	51	45	1.7	1.7	-	-	-	-	-	-	-
NCA12.RES.0200	NCA12	1	290026	6279616	Residential	31 Holborrow Avenue Hobartville	60	55	P	50	44	52	46	1.8	1.8	-	-	-	-	-	-	-
NCA12.RES.0201	NCA12	1	290010	6279612	Residential	33 Holborrow Avenue Hobartville	60	55	P	50	45	52	46	1.9	1.9	-	-	-	-	-	-	-
NCA12.RES.0202	NCA12	1	289997	6279608	Residential	35 Holborrow Avenue Hobartville	60	55	P	50	45	52	46	2	2	-	-	-	-	-	-	-
NCA12.RES.0203	NCA12	1	289975	6279600	Residential	37 Holborrow Avenue Hobartville	60	55	P	50	44	52	46	2.2	2.2	-	-	-	-	-	-	-
NCA12.RES.0204	NCA12	1	289961	6279595	Residential	39 Holborrow Avenue Hobartville	60	55	P	50	44	52	46	2.5	2.4	-	-	-	-	-	-	-
NCA12.RES.0205	NCA12	1	290347	6279517	Residential	2 Holborrow Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0206	NCA12	1	290338	6279531	Residential	4 Holborrow Avenue Hobartville	58	52	P	46	40	47	41	1.5	1.3	-	-	-	-	-	-	-
NCA12.RES.0207	NCA12	1	290334	6279538	Residential	6 Holborrow Avenue Hobartville	58	52	P	46	40	47	42	1.5	1.3	-	-	-	-	-	-	-
NCA12.RES.0208	NCA12	1	290326	6279553	Residential	8 Holborrow Avenue Hobartville	58	53	P	46	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0209	NCA12	1	290318	6279570	Residential	10 Holborrow Avenue Hobartville	58	53	P	46	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0210	NCA12	1	290309	6279586	Residential	12 Holborrow Avenue Hobartville	58	53	P	46	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0211	NCA12	1	290302	6279599	Residential	14 Holborrow Avenue Hobartville	58	53	P	46	41	47	42	1.4	1.4	-	-	-	-	-	-	-
NCA12.RES.0212	NCA12	1	290293	6279615	Residential	16 Holborrow Avenue Hobartville	58	53	P	46	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0213	NCA12	1	290283	6279632	Residential	18 Holborrow Avenue Hobartville	59	53	P	47	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0214	NCA12	1	290291	6279657	Residential	20 Holborrow Avenue Hobartville	60	54	P	48	42	48	42	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0215	NCA12	1	290268	6279657	Residential	22 Holborrow Avenue Hobartville	59	53	P	47	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0216	NCA12	1	290254	6279672	Residential	24 Holborrow Avenue Hobartville	58	53	P	46	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0217	NCA12	1	290251	6279697	Residential	26 Holborrow Avenue Hobartville	60	55	P	49	43	50	44	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0218	NCA12	1	290227	6279712	Residential	28 Holborrow Avenue Hobartville	60	55	P	49	44	50	44	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0219	NCA12	1	290192	6279718	Residential	30 Holborrow Avenue Hobartville	60	55	P	50	44	50	44	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0220	NCA12	1	290180	6279709	Residential	32 Holborrow Avenue Hobartville	60	55	P	49	43	49	43	0.5	0.5	-	-	-	-	-	-	-
NCA12.RES.0221	NCA12	1	290153	6279710	Residential	34 Holborrow Avenue Hobartville	60	55	P	50	44	51	45	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0222	NCA12	1	290132	6279707	Residential	36 Holborrow Avenue Hobartville	60	55	P	50	44	51	45	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0223	NCA12	1	290121	6279697	Residential	38 Holborrow Avenue Hobartville	60	55	P	49	43	50	44	1	1	-	-	-	-	-	-	-
NCA12.RES.0224	NCA12	1	290100	6279694	Residential	40 Holborrow Avenue Hobartville	60	55	P	50	44	51	45	1.1	1.1	-	-	-	-	-	-	-
NCA12.RES.0225	NCA12	1	290089	6279688	Residential	42 Holborrow Avenue Hobartville	60	55	P	50	44	51	45	1.1	1.1	-	-	-	-	-	-	-
NCA12.RES.0226	NCA12	1	290066	6279685	Residential	44 Holborrow Avenue Hobartville	60	55	P	49	44	51	45	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0227	NCA12	1	290048	6279673	Residential	46 Holborrow Avenue Hobartville	60	55	P	50	45	52	45	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0228	NCA12	1	290034	6279672	Residential	48 Holborrow Avenue Hobartville	60	55	P	51	45	52	46	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0229	NCA12	1	290022	6279669	Residential	50 Holborrow Avenue Hobartville	60	55	P	52	46	53	47	1.1	1.1	-	-	-	-	-	-	-
NCA12.RES.0230	NCA12	1	290003	6279661	Residential	52 Holborrow Avenue Hobartville	60	55	P	52	47	53	47	1	1	-	-	-	-	-	-	-
NCA12.RES.0231	NCA12	1	289992	6279659	Residential	54 Holborrow Avenue Hobartville	60	55	P	53	47	54	48	1	1	-	-	-	-	-	-	-
NCA12.RES.0232	NCA12	1	289974	6279648	Residential	56 Holborrow Avenue Hobartville	60	55	P	53	47	54	48	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0233	NCA12	1	289953	6279648	Residential	58 Holborrow Avenue Hobartville	60	55	P	53	47	54	48	1	1	-	-	-	-	-	-	-
NCA12.RES.0234	NCA12	1	289935	6279650	Residential	60 Holborrow Avenue Hobartville	60	55	P	53	47	54	48	1	1	-	-	-	-	-	-	-
NCA12.RES.0235	NCA12	1	290259	6279567	Residential	1 Hughes Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0236	NCA12	1	290244	6279575	Residential	3 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0237	NCA12	1	290223	6279549	Residential	5 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0238	NCA12	1	290163	6279537	Residential	7 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0239	NCA12	1	290146	6279530	Residential	9 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0240	NCA12	1	290127	6279522	Residential	11 Hughes Avenue Hobartville	58	52	P	46	40	48	42	1.4	1.4	-	-	-	-	-	-	-
NCA12.RES.0241	NCA12	1	290120	6279519	Residential	13 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0242	NCA12	1	290106	6279514	Residential	15 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0243	NCA12	1	290086	6279495	Residential	17 Hughes Avenue Hobartville	58	53	P	46	41	48	42	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0244	NCA12	1	290080	6279523	Residential	19 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.8	1.7	-	-	-	-	-	-	-
NCA12.RES.0245	NCA12	1	290053	6279500	Residential	21 Hughes Avenue Hobartville	59	53	P	47	41	49	43	1.2	1.1	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0246	NCA12	1	290043	6279503	Residential	23 Hughes Avenue Hobartville	59	53	P	47	41	49	43	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0247	NCA12	1	290025	6279515	Residential	25 Hughes Avenue Hobartville	59	54	P	47	42	49	44	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0248	NCA12	1	290004	6279528	Residential	27 Hughes Avenue Hobartville	60	54	P	48	42	50	44	1.9	1.7	-	-	-	-	-	-	-
NCA12.RES.0249	NCA12	1	289991	6279542	Residential	29 Hughes Avenue Hobartville	60	54	P	48	42	50	45	2	1.9	-	-	-	-	-	-	-
NCA12.RES.0250	NCA12	1	289984	6279551	Residential	31 Hughes Avenue Hobartville	60	54	P	48	42	50	45	2	1.9	-	-	-	-	-	-	-
NCA12.RES.0251	NCA12	1	289971	6279566	Residential	33 Hughes Avenue Hobartville	60	54	P	48	42	50	44	1.9	1.8	-	-	-	-	-	-	-
NCA12.RES.0252	NCA12	1	289914	6279636	Residential	35 Hughes Avenue Hobartville	60	55	P	50	44	53	47	4.2	4.1	-	-	-	-	-	-	-
NCA12.RES.0253	NCA12	1	289903	6279665	Residential	37 Hughes Avenue Hobartville	60	55	P	53	47	54	48	1.1	1.1	-	-	-	-	-	-	-
NCA12.RES.0254	NCA12	1	289885	6279665	Residential	39 Hughes Avenue Hobartville	60	55	P	53	47	54	48	1.9	1.9	-	-	-	-	-	-	-
NCA12.RES.0255	NCA12	1	289865	6279635	Residential	41 Hughes Avenue Hobartville	60	55	P	50	45	54	48	6.4	6.4	-	-	-	-	-	-	-
NCA12.RES.0256	NCA12	1	289852	6279633	Residential	43 Hughes Avenue Hobartville	60	55	P	51	46	55	50	7.1	7.1	-	-	-	-	-	-	-
NCA12.RES.0257	NCA12	1	289835	6279624	Residential	45 Hughes Avenue Hobartville	60	55	P	54	49	57	51	8.1	8.1	-	-	-	-	-	-	-
NCA12.RES.0258	NCA12	1	289822	6279621	Residential	47 Hughes Avenue Hobartville	60	55	P	56	51	58	52	8.9	8.7	-	-	-	-	-	-	-
NCA12.RES.0259	NCA12	1	289799	6279623	Residential	49 Hughes Avenue Hobartville	60	55	P	63	58	63	57	7.1	6.7	-	-	-	-	-	-	-
NCA12.RES.0260	NCA12	1	290272	6279527	Residential	2 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0261	NCA12	1	290253	6279523	Residential	4 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.3	-	-	-	-	-	-	-
NCA12.RES.0262	NCA12	1	290240	6279518	Residential	6 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.3	-	-	-	-	-	-	-
NCA12.RES.0263	NCA12	1	290227	6279509	Residential	8 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0264	NCA12	1	290214	6279507	Residential	10 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0265	NCA12	1	290197	6279499	Residential	12 Hughes Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0266	NCA12	1	290186	6279495	Residential	14 Hughes Avenue Hobartville	59	53	P	47	41	48	43	1.3	1.3	-	-	-	-	-	-	-
NCA12.RES.0267	NCA12	1	290170	6279490	Residential	16 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0268	NCA12	1	290152	6279482	Residential	18 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0269	NCA12	1	290140	6279477	Residential	20 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0270	NCA12	1	290127	6279473	Residential	22 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0271	NCA12	1	290107	6279468	Residential	24 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.7	1.6	-	-	-	-	-	-	-
NCA12.RES.0272	NCA12	1	290102	6279468	Residential	26 Hughes Avenue Hobartville	60	54	P	48	42	49	43	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0273	NCA12	1	290071	6279465	Residential	28 Hughes Avenue Hobartville	60	54	P	48	42	50	44	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0274	NCA12	1	290040	6279473	Residential	30 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.7	1.7	-	-	-	-	-	-	-
NCA12.RES.0275	NCA12	1	290016	6279469	Residential	32 Hughes Avenue Hobartville	59	53	P	47	41	49	43	1.4	1.2	-	-	-	-	-	-	-
NCA12.RES.0276	NCA12	1	290014	6279486	Residential	34 Hughes Avenue Hobartville	59	54	P	47	42	49	43	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0277	NCA12	1	289988	6279491	Residential	36 Hughes Avenue Hobartville	60	55	P	49	43	51	45	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0278	NCA12	1	289941	6279516	Residential	38 Hughes Avenue Hobartville	60	55	P	49	43	51	46	1.6	1.4	-	-	-	-	-	-	-
NCA12.RES.0279	NCA12	1	289932	6279532	Residential	40 Hughes Avenue Hobartville	60	55	P	49	44	52	46	2.5	2.4	-	-	-	-	-	-	-
NCA12.RES.0280	NCA12	1	289933	6279544	Residential	42 Hughes Avenue Hobartville	60	55	P	49	43	52	46	2.4	2.2	-	-	-	-	-	-	-
NCA12.RES.0281	NCA12	1	289921	6279560	Residential	44 Hughes Avenue Hobartville	60	55	P	49	43	52	46	2.7	2.5	-	-	-	-	-	-	-
NCA12.RES.0282	NCA12	1	289911	6279565	Residential	46 Hughes Avenue Hobartville	60	55	P	49	43	52	46	2.6	2.4	-	-	-	-	-	-	-
NCA12.RES.0283	NCA12	1	289895	6279578	Residential	48 Hughes Avenue Hobartville	60	55	P	49	43	52	46	4	3.8	-	-	-	-	-	-	-
NCA12.RES.0283	NCA12	2	289898	6279591	Residential	48 Hughes Avenue Hobartville	60	55	P	54	48	57	51	4.2	4.2	-	-	-	-	-	-	-
NCA12.RES.0284	NCA12	1	289885	6279609	Residential	50 Hughes Avenue Hobartville	60	55	P	52	47	55	49	3.9	4	-	-	-	-	-	-	-
NCA12.RES.0285	NCA12	1	289867	6279603	Residential	52 Hughes Avenue Hobartville	60	55	P	53	48	56	50	4.9	4.9	-	-	-	-	-	-	-
NCA12.RES.0286	NCA12	1	289854	6279601	Residential	54 Hughes Avenue Hobartville	60	55	P	54	49	57	51	5.3	5.3	-	-	-	-	-	-	-
NCA12.RES.0287	NCA12	1	289836	6279579	Residential	56 Hughes Avenue Hobartville	60	55	P	63	58	64	58	4.3	4	-	-	-	-	-	-	-
NCA12.RES.0288	NCA12	1	290751	6279384	Residential	29 Laurence Street Hobartville	56	51	P	44	39	45	39	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0289	NCA12	1	290754	6279368	Residential	31 Laurence Street Hobartville	56	51	P	44	39	45	39	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0291	NCA12	1	290559	6279215	Residential	39 Laurence Street Hobartville	56	51	P	44	39	45	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0292	NCA12	1	290539	6279191	Residential	41 Laurence Street Hobartville	56	51	P	44	39	46	40	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0293	NCA12	1	290522	6279175	Residential	43 Laurence Street Hobartville	56	51	P	44	39	45	40	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0294	NCA12	1	290497	6279161	Residential	45 Laurence Street Hobartville	56	51	P	44	39	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0295	NCA12	1	290493	6279147	Residential	47 Laurence Street Hobartville	56	51	P	44	39	46	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0296	NCA12	1	290469	6279133	Residential	49 Laurence Street Hobartville	57	51	P	45	39	46	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0298	NCA12	1	290540	6279131	Residential	44 Laurence Street Hobartville	57	51	P	45	39	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0299	NCA12	1	290995	6279117	Residential	64 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0300	NCA12	1	290982	6279105	Residential	66 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0301	NCA12	1	290970	6279093	Residential	68 Londonderry Road Hobartville	60	55	P	59	54	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0302	NCA12	1	290957	6279080	Residential	70 Londonderry Road Hobartville	60	55	P	59	54	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0303	NCA12	1	290952	6279076	Residential	72 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0304	NCA12	1	290937	6279061	Residential	74 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0305	NCA12	1	290926	6279053	Residential	76 Londonderry Road Hobartville	60	55	P	59	54	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0306	NCA12	1	290912	6279039	Residential	78 Londonderry Road Hobartville	60	55	P	59	54	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0307	NCA12	1	290904	6279031	Residential	80 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0308	NCA12	1	290873	6279031	Residential	82 Londonderry Road Hobartville	60	55	P	48	43	48	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0309	NCA12	1	290892	6279021	Residential	82 Londonderry Road Hobartville	60	55	P	59	54	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0310	NCA12	1	290882	6279008	Residential	84 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0311	NCA12	1	290875	6279001	Residential	86 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0312	NCA12	1	290857	6278987	Residential	88 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0313	NCA12	1	290848	6278979	Residential	90 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0314	NCA12	1	290835	6278967	Residential	92 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0315	NCA12	1	290826	6278959	Residential	94 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0316	NCA12	1	290819	6278952	Residential	96 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0317	NCA12	1	290808	6278941	Residential	98 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0318	NCA12	1	290795	6278929	Residential	100 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0319	NCA12	1	290722	6278863	Residential	102 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0320	NCA12	1	290711	6278853	Residential	104 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0321	NCA12	1	290703	6278844	Residential	106 Londonderry Road Hobartville	60	55	P	59	54	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0322	NCA12	1	290686	6278830	Residential	108 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0323	NCA12	1	290676	6278820	Residential	110 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0324	NCA12	1	290667	6278811	Residential	112 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0325	NCA12	1	290652	6278796	Residential	114 Londonderry Road Hobartville	60	55	P	59	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0326	NCA12	1	290640	6278786	Residential	116 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0327	NCA12	1	290631	6278778	Residential	118 Londonderry Road Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0327	NCA12	2	290631	6278778	Residential	118 Londonderry Road Hobartville	60	55	P	61	57	62	57	0	0	-	-	-	-	-	-	-
NCA12.RES.0328	NCA12	1	290618	6278765	Residential	120 Londonderry Road Hobartville	60	55	P	60	55	61	56	0	0	-	-	-	-	-	-	-
NCA12.RES.0329	NCA12	1	290612	6278759	Residential	122 Londonderry Road Hobartville	60	55	P	60	55	61	56	0	0	-	-	-	-	-	-	-
NCA12.RES.0330	NCA12	1	290594	6278743	Residential	124 Londonderry Road Hobartville	60	55	P	60	56	62	57	0	0	-	-	-	-	-	-	-
NCA12.RES.0331	NCA12	1	290576	6278742	Residential	126 Londonderry Road Hobartville	60	55	P	61	56	64	59	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0331	NCA12	2	290576	6278742	Residential	126 Londonderry Road Hobartville	60	55	P	62	58	65	60	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0332	NCA12	1	290913	6279169	Residential	35 Luttrell Street Hobartville	58	53	P	46	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0333	NCA12	1	290900	6279157	Residential	37 Luttrell Street Hobartville	58	53	P	46	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0334	NCA12	1	290886	6279146	Residential	39 Luttrell Street Hobartville	58	53	P	46	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0335	NCA12	1	290875	6279134	Residential	41 Luttrell Street Hobartville	57	53	P	45	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0336	NCA12	1	290864	6279147	Residential	41 Luttrell Street Hobartville	56	51	P	44	39	45	40	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0337	NCA12	1	290846	6279106	Residential	43 Luttrell Street Hobartville	58	53	P	46	41	47	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0338	NCA12	1	290838	6279101	Residential	45 Luttrell Street Hobartville	58	53	P	46	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0339	NCA12	1	290819	6279085	Residential	47 Luttrell Street Hobartville	57	53	P	45	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0340	NCA12	1	290798	6279079	Residential	49 Luttrell Street Hobartville	58	53	P	46	41	47	41	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0341	NCA12	1	290781	6279060	Residential	51 Luttrell Street Hobartville	58	53	P	46	41	46	41	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0342	NCA12	1	290780	6279040	Residential	53 Luttrell Street Hobartville	58	53	P	46	41	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0343	NCA12	1	290761	6279027	Residential	55 Luttrell Street Hobartville	57	53	P	45	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0344	NCA12	1	290735	6279016	Residential	57 Luttrell Street Hobartville	56	51	P	44	39	46	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0344	NCA12	2	290747	6279015	Residential	57 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0345	NCA12	1	290710	6278979	Residential	61 Luttrell Street Hobartville	58	54	P	46	42	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0346	NCA12	1	290694	6278963	Residential	63 Luttrell Street Hobartville	59	54	P	47	42	48	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0347	NCA12	1	290684	6278953	Residential	65 Luttrell Street Hobartville	58	54	P	46	42	47	42	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0347	NCA12	2	290684	6278953	Residential	65 Luttrell Street Hobartville	60	55	P	49	44	49	44	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0348	NCA12	1	290654	6278931	Residential	67 Luttrell Street Hobartville	58	53	P	46	41	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0349	NCA12	1	290642	6278925	Residential	69 Luttrell Street Hobartville	58	53	P	46	41	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0350	NCA12	1	290622	6278917	Residential	71 Luttrell Street Hobartville	58	53	P	46	41	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0351	NCA12	1	290604	6278917	Residential	73 Luttrell Street Hobartville	58	53	P	46	41	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0352	NCA12	1	290596	6278918	Residential	75 Luttrell Street Hobartville	58	53	P	46	41	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0353	NCA12	1	290573	6278921	Residential	77 Luttrell Street Hobartville	58	53	P	46	41	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0354	NCA12	1	290554	6278926	Residential	79 Luttrell Street Hobartville	57	52	P	45	40	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0355	NCA12	1	290536	6278934	Residential	81 Luttrell Street Hobartville	58	53	P	46	41	48	42	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0356	NCA12	1	290524	6278946	Residential	83 Luttrell Street Hobartville	58	53	P	46	41	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0357	NCA12	1	290513	6278958	Residential	85 Luttrell Street Hobartville	58	52	P	46	40	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0358	NCA12	1	290503	6278970	Residential	87 Luttrell Street Hobartville	57	52	P	45	40	48	42	0.7	0.6	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
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										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0359	NCA12	1	290498	6278983	Residential	89 Luttrell Street Hobartville	57	51	P	45	39	47	42	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0359	NCA12	2	290498	6278983	Residential	89 Luttrell Street Hobartville	59	54	P	47	42	50	44	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0360	NCA12	1	290489	6278999	Residential	91 Luttrell Street Hobartville	57	52	P	45	40	47	42	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0361	NCA12	1	290484	6279018	Residential	93 Luttrell Street Hobartville	57	52	P	45	40	47	42	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0362	NCA12	1	290486	6279035	Residential	95 Luttrell Street Hobartville	57	52	P	45	40	47	41	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0363	NCA12	1	290488	6279051	Residential	97 Luttrell Street Hobartville	57	52	P	45	40	47	41	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0364	NCA12	1	290491	6279068	Residential	99 Luttrell Street Hobartville	57	52	P	45	40	47	41	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0365	NCA12	1	290495	6279079	Residential	101 Luttrell Street Hobartville	57	52	P	45	40	47	41	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0366	NCA12	1	290969	6279135	Residential	44 Luttrell Street Hobartville	57	52	P	45	40	45	40	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0366	NCA12	2	290969	6279135	Residential	44 Luttrell Street Hobartville	60	55	P	53	48	54	49	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0367	NCA12	1	290954	6279131	Residential	46 Luttrell Street Hobartville	58	54	P	46	42	47	42	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0368	NCA12	1	290941	6279127	Residential	48 Luttrell Street Hobartville	59	54	P	47	42	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0369	NCA12	1	290933	6279106	Residential	50 Luttrell Street Hobartville	60	55	P	48	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0370	NCA12	1	290929	6279099	Residential	52 Luttrell Street Hobartville	60	55	P	48	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0371	NCA12	1	290911	6279082	Residential	54 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0372	NCA12	1	290897	6279081	Residential	56 Luttrell Street Hobartville	58	53	P	46	41	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0373	NCA12	1	290883	6279070	Residential	58 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0374	NCA12	1	290871	6279058	Residential	60 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0375	NCA12	1	290863	6279055	Residential	62 Luttrell Street Hobartville	58	54	P	46	42	47	42	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0376	NCA12	1	290853	6279032	Residential	64 Luttrell Street Hobartville	59	54	P	47	42	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0377	NCA12	1	290843	6279022	Residential	66 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0377	NCA12	2	290843	6279022	Residential	66 Luttrell Street Hobartville	60	55	P	52	48	53	48	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0378	NCA12	1	290835	6279015	Residential	68 Luttrell Street Hobartville	59	54	P	47	42	47	42	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0379	NCA12	1	290820	6279010	Residential	70 Luttrell Street Hobartville	59	54	P	47	42	48	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0380	NCA12	1	290809	6279000	Residential	72 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0381	NCA12	1	290797	6278989	Residential	74 Luttrell Street Hobartville	59	54	P	47	42	48	43	0.2	0	-	-	-	-	-	-	-
NCA12.RES.0382	NCA12	1	290786	6278980	Residential	76 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0383	NCA12	1	290779	6278964	Residential	78 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0384	NCA12	1	290760	6278961	Residential	80 Luttrell Street Hobartville	58	54	P	46	42	47	42	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0385	NCA12	1	290734	6278945	Residential	82 Luttrell Street Hobartville	60	55	P	49	44	49	44	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0386	NCA12	1	290708	6278921	Residential	84 Luttrell Street Hobartville	60	55	P	50	45	50	45	0.3	0.1	-	-	-	-	-	-	-
NCA12.RES.0387	NCA12	1	290691	6278895	Residential	86 Luttrell Street Hobartville	59	54	P	47	42	48	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0388	NCA12	1	290681	6278884	Residential	88 Luttrell Street Hobartville	59	54	P	47	42	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0389	NCA12	1	290670	6278883	Residential	90 Luttrell Street Hobartville	59	54	P	47	42	47	42	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0390	NCA12	1	290660	6278862	Residential	92 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0391	NCA12	1	290650	6278850	Residential	94 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0392	NCA12	1	290647	6278837	Residential	96 Luttrell Street Hobartville	60	55	P	48	43	49	44	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0393	NCA12	1	290623	6278831	Residential	98 Luttrell Street Hobartville	59	55	P	47	43	48	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0394	NCA12	1	290614	6278816	Residential	100 Luttrell Street Hobartville	60	55	P	48	43	49	44	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0395	NCA12	1	290601	6278803	Residential	102 Luttrell Street Hobartville	60	55	P	48	44	50	44	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0396	NCA12	1	290572	6278806	Residential	104 Luttrell Street Hobartville	60	55	P	48	43	50	45	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0397	NCA12	1	290551	6278815	Residential	106 Luttrell Street Hobartville	59	54	P	47	42	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0397	NCA12	2	290551	6278815	Residential	106 Luttrell Street Hobartville	60	55	P	55	50	57	51	0.1	0.1	-	-	-	-	-	-	-
NCA12.RES.0398	NCA12	1	290542	6278831	Residential	108 Luttrell Street Hobartville	60	55	P	48	43	51	45	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0399	NCA12	1	290542	6278839	Residential	110 Luttrell Street Hobartville	59	54	P	47	42	50	44	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0400	NCA12	1	290536	6278857	Residential	112 Luttrell Street Hobartville	59	54	P	47	42	49	44	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0401	NCA12	1	290522	6278868	Residential	114 Luttrell Street Hobartville	59	54	P	47	42	49	44	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0402	NCA12	1	290510	6278878	Residential	116 Luttrell Street Hobartville	59	53	P	47	41	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0403	NCA12	1	290502	6278889	Residential	118 Luttrell Street Hobartville	59	54	P	47	42	49	44	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0404	NCA12	1	290494	6278898	Residential	120 Luttrell Street Hobartville	59	54	P	47	42	49	44	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0405	NCA12	1	290469	6278910	Residential	122 Luttrell Street Hobartville	60	55	P	48	43	51	46	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0406	NCA12	1	290471	6278925	Residential	124 Luttrell Street Hobartville	59	53	P	47	41	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0407	NCA12	1	290463	6278938	Residential	126 Luttrell Street Hobartville	58	53	P	46	41	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0408	NCA12	1	290449	6278948	Residential	128 Luttrell Street Hobartville	58	53	P	46	41	48	43	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0409	NCA12	1	290438	6278961	Residential	130 Luttrell Street Hobartville	58	53	P	46	41	49	43	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0410	NCA12	1	290432	6278973	Residential	132 Luttrell Street Hobartville	56	51	P	44	39	47	41	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0411	NCA12	1	290430	6278997	Residential	134 Luttrell Street Hobartville	59	54	P	47	42	49	44	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0412	NCA12	1	290436	6279033	Residential	136 Luttrell Street Hobartville	58	52	P	46	40	48	42	0.3	0.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0413	NCA12	1	290435	6279058	Residential	138 Luttrell Street Hobartville	57	51	P	45	39	46	41	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0414	NCA12	1	290440	6279073	Residential	140 Luttrell Street Hobartville	57	52	P	45	40	47	41	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0415	NCA12	1	290444	6279089	Residential	142 Luttrell Street Hobartville	57	52	P	45	40	47	41	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0416	NCA12	1	290657	6278979	Residential	1 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0417	NCA12	1	290641	6278998	Residential	3 Minchin Avenue Hobartville	57	51	P	45	39	46	41	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0418	NCA12	1	290634	6279006	Residential	5 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0419	NCA12	1	290624	6279017	Residential	7 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0420	NCA12	1	290609	6279033	Residential	9 Minchin Avenue Hobartville	56	51	P	44	39	45	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0421	NCA12	1	290600	6279041	Residential	11 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0422	NCA12	1	290590	6279052	Residential	13 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0423	NCA12	1	290578	6279065	Residential	15 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0424	NCA12	1	290563	6279083	Residential	17 Minchin Avenue Hobartville	55	50	P	43	38	45	39	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0424	NCA12	2	290568	6279098	Residential	17 Minchin Avenue Hobartville	58	52	P	46	40	47	41	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0425	NCA12	1	290551	6279094	Residential	19 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0426	NCA12	1	290533	6279125	Residential	21 Minchin Avenue Hobartville	57	51	P	45	39	46	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0427	NCA12	1	290619	6278978	Residential	2 Minchin Avenue Hobartville	57	52	P	45	40	46	41	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0428	NCA12	1	290611	6278977	Residential	4 Minchin Avenue Hobartville	57	52	P	45	40	46	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0429	NCA12	1	290591	6278975	Residential	6 Minchin Avenue Hobartville	57	52	P	45	40	46	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0430	NCA12	1	290582	6278975	Residential	8 Minchin Avenue Hobartville	57	51	P	45	39	46	40	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0431	NCA12	1	290567	6278985	Residential	10 Minchin Avenue Hobartville	57	51	P	45	39	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0432	NCA12	1	290541	6278982	Residential	12 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0433	NCA12	1	290554	6279002	Residential	14 Minchin Avenue Hobartville	57	52	P	45	40	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0434	NCA12	1	290527	6279011	Residential	16 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0435	NCA12	1	290524	6279031	Residential	18 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0436	NCA12	1	290522	6279057	Residential	20 Minchin Avenue Hobartville	56	51	P	44	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0437	NCA12	1	290535	6279073	Residential	22 Minchin Avenue Hobartville	57	51	P	45	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0438	NCA12	1	290502	6279091	Residential	24 Minchin Avenue Hobartville	57	52	P	45	40	47	41	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0439	NCA12	1	290336	6279155	Residential	5 Potts Street Hobartville	58	53	P	46	41	48	43	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0440	NCA12	1	290342	6279144	Residential	7 Potts Street Hobartville	58	53	P	46	41	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0441	NCA12	1	290353	6279129	Residential	9 Potts Street Hobartville	57	52	P	45	40	47	42	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0441	NCA12	2	290353	6279129	Residential	9 Potts Street Hobartville	60	54	P	48	42	50	44	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0442	NCA12	1	290370	6279141	Residential	9 Potts Street Hobartville	56	51	P	44	39	46	40	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0443	NCA12	1	290367	6279115	Residential	11 Potts Street Hobartville	57	52	P	45	40	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0444	NCA12	1	290372	6279109	Residential	13 Potts Street Hobartville	58	52	P	46	40	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0445	NCA12	1	290381	6279100	Residential	15 Potts Street Hobartville	58	52	P	46	40	48	42	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0446	NCA12	1	290391	6279086	Residential	17 Potts Street Hobartville	57	52	P	45	40	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0447	NCA12	1	290401	6279075	Residential	19 Potts Street Hobartville	57	52	P	45	40	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0448	NCA12	1	290413	6279062	Residential	21 Potts Street Hobartville	57	52	P	45	40	48	42	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0449	NCA12	1	290302	6279133	Residential	2 Potts Street Hobartville	60	55	P	48	43	51	45	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0450	NCA12	1	290306	6279107	Residential	4 Potts Street Hobartville	59	54	P	47	42	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0451	NCA12	1	290325	6279097	Residential	6 Potts Street Hobartville	58	53	P	46	41	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0452	NCA12	1	290331	6279091	Residential	8 Potts Street Hobartville	59	54	P	47	42	50	44	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0453	NCA12	1	290339	6279078	Residential	10 Potts Street Hobartville	59	54	P	47	42	49	44	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0454	NCA12	1	290351	6279067	Residential	12 Potts Street Hobartville	58	53	P	46	41	48	43	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0455	NCA12	1	290360	6279055	Residential	14 Potts Street Hobartville	57	52	P	45	40	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0456	NCA12	1	290365	6279045	Residential	16 Potts Street Hobartville	58	53	P	46	41	48	42	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0457	NCA12	1	290378	6279025	Residential	18 Potts Street Hobartville	58	53	P	46	41	48	43	0.5	0.3	-	-	-	-	-	-	-
NCA12.RES.0458	NCA12	1	290393	6279017	Residential	20 Potts Street Hobartville	58	53	P	46	41	48	43	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0459	NCA12	1	290657	6279451	Residential	43 Powell Street Hobartville	57	51	P	45	39	46	40	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0459	NCA12	2	290657	6279451	Residential	43 Powell Street Hobartville	58	52	P	46	40	47	41	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0460	NCA12	1	290668	6279425	Residential	45 Powell Street Hobartville	56	50	P	44	38	45	39	1.2	1	-	-	-	-	-	-	-
NCA12.RES.0461	NCA12	1	290673	6279420	Residential	47 Powell Street Hobartville	56	50	P	44	38	45	39	1.2	1	-	-	-	-	-	-	-
NCA12.RES.0462	NCA12	1	290688	6279403	Residential	49 Powell Street Hobartville	55	50	P	43	38	45	39	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0463	NCA12	1	290695	6279393	Residential	51 Powell Street Hobartville	56	51	P	44	39	45	40	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0464	NCA12	1	290708	6279380	Residential	53 Powell Street Hobartville	56	51	P	44	39	45	39	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0465	NCA12	1	290713	6279369	Residential	55 Powell Street Hobartville	56	51	P	44	39	45	40	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0466	NCA12	1	290718	6279360	Residential	57 Powell Street Hobartville	56	51	P	44	39	45	40	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0467	NCA12	1	290526	6279209	Residential	1 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.7	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0468	NCA12	1	290515	6279221	Residential	3 Rutherglen Avenue Hobartville	56	51	P	44	39	45	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0469	NCA12	1	290502	6279237	Residential	5 Rutherglen Avenue Hobartville	56	50	P	44	38	45	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0470	NCA12	1	290494	6279245	Residential	7 Rutherglen Avenue Hobartville	56	51	P	44	39	45	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0471	NCA12	1	290487	6279253	Residential	9 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0472	NCA12	1	290470	6279272	Residential	11 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0473	NCA12	1	290461	6279284	Residential	13 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0474	NCA12	1	290451	6279291	Residential	15 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0475	NCA12	1	290492	6279176	Residential	2 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0476	NCA12	1	290472	6279187	Residential	4 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0477	NCA12	1	290483	6279215	Residential	6 Rutherglen Avenue Hobartville	57	51	P	45	39	45	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0478	NCA12	1	290456	6279204	Residential	8A Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0479	NCA12	1	290450	6279227	Residential	10 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0480	NCA12	1	290455	6279247	Residential	12 Rutherglen Avenue Hobartville	57	51	P	45	39	45	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0481	NCA12	1	290440	6279261	Residential	14 Rutherglen Avenue Hobartville	57	51	P	45	39	45	40	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0482	NCA12	1	290413	6279270	Residential	16 Rutherglen Avenue Hobartville	56	50	P	44	38	45	39	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0483	NCA12	1	290403	6279282	Residential	18 Rutherglen Avenue Hobartville	57	51	P	45	39	46	40	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0484	NCA12	1	290383	6279278	Residential	20 Rutherglen Avenue Hobartville	56	51	P	44	39	46	40	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0485	NCA12	1	290386	6279296	Residential	22 Rutherglen Avenue Hobartville	57	51	P	45	39	46	40	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0486	NCA12	1	290370	6279311	Residential	24 Rutherglen Avenue Hobartville	57	51	P	45	39	46	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0487	NCA12	1	290356	6279331	Residential	26 Rutherglen Avenue Hobartville	57	52	P	45	40	46	40	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0488	NCA12	1	290348	6279345	Residential	28 Rutherglen Avenue Hobartville	57	51	P	45	39	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0489	NCA12	1	290319	6279345	Residential	30A Rutherglen Avenue Hobartville	55	50	P	43	38	45	39	1.5	1.3	-	-	-	-	-	-	-
NCA12.RES.0489	NCA12	2	290325	6279357	Residential	30A Rutherglen Avenue Hobartville	59	53	P	47	41	48	43	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0490	NCA12	1	290325	6279378	Residential	32 Rutherglen Avenue Hobartville	57	52	P	45	40	46	40	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0491	NCA12	1	290297	6279380	Residential	34 Rutherglen Avenue Hobartville	57	52	P	45	40	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0492	NCA12	1	290302	6279396	Residential	36 Rutherglen Avenue Hobartville	57	51	P	45	39	46	40	1.3	1.1	-	-	-	-	-	-	-
NCA12.RES.0493	NCA12	1	290288	6279409	Residential	38 Rutherglen Avenue Hobartville	57	51	P	45	39	46	40	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0494	NCA12	1	290298	6279440	Residential	40 Rutherglen Avenue Hobartville	58	53	P	46	41	47	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0495	NCA12	1	290788	6279094	Residential	1 Sardonyx Avenue Hobartville	57	52	P	45	40	46	41	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0496	NCA12	1	290778	6279108	Residential	3 Sardonyx Avenue Hobartville	56	51	P	44	39	45	40	0.5	0.3	-	-	-	-	-	-	-
NCA12.RES.0497	NCA12	1	290769	6279117	Residential	5 Sardonyx Avenue Hobartville	56	51	P	44	39	45	40	0.8	0.6	-	-	-	-	-	-	-
NCA12.RES.0498	NCA12	1	290761	6279128	Residential	7 Sardonyx Avenue Hobartville	57	52	P	45	40	46	40	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0499	NCA12	1	290744	6279145	Residential	9 Sardonyx Avenue Hobartville	56	51	P	44	39	45	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0500	NCA12	1	290719	6279155	Residential	11 Sardonyx Avenue Hobartville	56	51	P	44	39	46	40	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0501	NCA12	1	290764	6279075	Residential	2 Sardonyx Avenue Hobartville	57	52	P	45	40	46	41	0.7	0.5	-	-	-	-	-	-	-
NCA12.RES.0502	NCA12	1	290753	6279084	Residential	4 Sardonyx Avenue Hobartville	57	52	P	45	40	46	40	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0503	NCA12	1	290741	6279093	Residential	6 Sardonyx Avenue Hobartville	57	52	P	45	40	45	40	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0504	NCA12	1	290728	6279103	Residential	8 Sardonyx Avenue Hobartville	57	51	P	45	39	45	40	0.6	0.4	-	-	-	-	-	-	-
NCA12.RES.0505	NCA12	1	290707	6279103	Residential	10 Sardonyx Avenue Hobartville	56	51	P	44	39	46	40	0.9	0.7	-	-	-	-	-	-	-
NCA12.RES.0506	NCA12	1	290707	6279146	Residential	12 Sardonyx Avenue Hobartville	57	51	P	45	39	46	40	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0507	NCA12	1	290773	6278906	Residential	1 Smith Avenue Hobartville	60	55	P	60	55	60	55	0	0	-	-	-	-	-	-	-
NCA12.RES.0508	NCA12	1	290759	6278917	Residential	3 Smith Avenue Hobartville	60	55	P	54	49	54	49	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0509	NCA12	1	290741	6278937	Residential	5 Smith Avenue Hobartville	60	55	P	49	44	50	45	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0510	NCA12	1	290739	6278871	Residential	2 Smith Avenue Hobartville	60	55	P	61	56	61	56	0	0	-	-	-	-	-	-	-
NCA12.RES.0511	NCA12	1	290732	6278895	Residential	4 Smith Avenue Hobartville	60	55	P	53	49	54	49	0.1	0	-	-	-	-	-	-	-
NCA12.RES.0512	NCA12	1	290718	6278911	Residential	6 Smith Avenue Hobartville	60	55	P	51	46	52	47	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0513	NCA12	1	289857	6279562	Residential	1 Southee Road Hobartville	60	55	P	61	56	65	59	2.4	2.3	Y	Y	Y	-	-	-	Y
NCA12.RES.0514	NCA12	1	289866	6279552	Residential	3 Southee Road Hobartville	60	55	P	61	56	65	59	1.8	1.7	Y	Y	-	-	-	-	Y
NCA12.RES.0515	NCA12	1	289873	6279544	Residential	5 Southee Road Hobartville	60	55	P	61	56	64	59	1.2	1.1	Y	Y	-	-	-	-	Y
NCA12.RES.0516	NCA12	1	289888	6279526	Residential	7 Southee Road Hobartville	60	55	P	61	56	64	59	0.8	0.6	Y	Y	-	-	-	-	Y
NCA12.RES.0517	NCA12	1	289893	6279520	Residential	9 Southee Road Hobartville	60	55	P	61	56	64	59	0.6	0.5	Y	Y	-	-	-	-	Y
NCA12.RES.0518	NCA12	1	289908	6279503	Residential	11 Southee Road Hobartville	60	55	P	61	56	64	59	0.5	0.4	Y	Y	-	-	-	-	Y
NCA12.RES.0519	NCA12	1	289919	6279490	Residential	13 Southee Road Hobartville	60	55	P	61	56	64	59	0.4	0.3	Y	Y	-	-	-	-	Y
NCA12.RES.0520	NCA12	1	289924	6279485	Residential	15 Southee Road Hobartville	60	55	P	61	56	64	58	0.4	0.3	Y	Y	-	-	-	-	Y
NCA12.RES.0521	NCA12	1	289942	6279464	Residential	17 Southee Road Hobartville	60	55	P	60	55	64	58	0.3	0.2	Y	Y	-	-	-	-	Y
NCA12.RES.0522	NCA12	1	289953	6279454	Residential	19 Southee Road Hobartville	60	55	P	60	55	63	57	0.3	0.2	Y	Y	-	-	-	-	Y
NCA12.RES.0523	NCA12	1	289961	6279444	Residential	21 Southee Road Hobartville	60	55	P	60	55	63	58	0.2	0.1	Y	Y	-	-	-	-	Y
NCA12.RES.0524	NCA12	1	289967	6279436	Residential	23 Southee Road Hobartville	60	55	P	61	56	64	58	0.2	0.1	Y	Y	-	-	-	-	Y

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0525	NCA12	1	289978	6279426	Residential	25 Southee Road Hobartville	60	55	P	60	55	63	58	0.2	0.1	Y	Y	-	-	-	-	Y
NCA12.RES.0526	NCA12	1	289989	6279413	Residential	27 Southee Road Hobartville	60	55	P	60	55	63	58	0.2	0.1	Y	Y	-	-	-	-	Y
NCA12.RES.0527	NCA12	1	290005	6279393	Residential	29 Southee Road Hobartville	60	55	P	60	55	64	58	0.2	0.1	Y	Y	-	-	-	-	Y
NCA12.RES.0528	NCA12	1	290064	6279324	Residential	31 Southee Road Hobartville	60	55	P	61	56	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0529	NCA12	1	290074	6279313	Residential	33 Southee Road Hobartville	60	55	P	61	56	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0530	NCA12	1	290085	6279302	Residential	35 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0531	NCA12	1	290088	6279298	Residential	37 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0531	NCA12	2	290088	6279298	Residential	37 Southee Road Hobartville	60	55	P	62	57	65	59	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0532	NCA12	1	290101	6279284	Residential	39 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0533	NCA12	1	290113	6279270	Residential	41 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0534	NCA12	1	290121	6279258	Residential	43 Southee Road Hobartville	60	55	P	61	56	64	59	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0534	NCA12	2	290121	6279258	Residential	43 Southee Road Hobartville	60	55	P	62	57	65	60	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0535	NCA12	1	290135	6279244	Residential	45 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0536	NCA12	1	290145	6279233	Residential	47 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0537	NCA12	1	290151	6279226	Residential	49 Southee Road Hobartville	60	55	P	61	56	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0538	NCA12	1	290166	6279212	Residential	51 Southee Road Hobartville	60	55	P	59	54	62	57	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0539	NCA12	1	290170	6279203	Residential	53 Southee Road Hobartville	60	55	P	61	56	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0540	NCA12	1	290180	6279194	Residential	55 Southee Road Hobartville	60	55	P	60	55	63	58	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0541	NCA12	1	290193	6279184	Residential	57 Southee Road Hobartville	60	55	P	59	54	62	57	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0542	NCA12	1	290206	6279171	Residential	59 Southee Road Hobartville	60	55	P	59	54	62	56	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0543	NCA12	1	290213	6279158	Residential	61 Southee Road Hobartville	60	55	P	60	55	63	57	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0544	NCA12	1	290227	6279143	Residential	63 Southee Road Hobartville	60	55	P	59	54	62	57	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0545	NCA12	1	290237	6279126	Residential	65 Southee Road Hobartville	60	55	P	61	56	64	59	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0546	NCA12	1	290245	6279120	Residential	67 Southee Road Hobartville	60	55	P	60	55	63	57	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0547	NCA12	1	290266	6279094	Residential	69 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0548	NCA12	1	290279	6279079	Residential	71 Southee Road Hobartville	60	55	P	60	55	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0549	NCA12	1	290288	6279069	Residential	73 Southee Road Hobartville	60	55	P	60	55	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0550	NCA12	1	290304	6279051	Residential	77 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0551	NCA12	1	290318	6279036	Residential	79 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0552	NCA12	1	290329	6279056	Residential	79 Southee Road Hobartville	60	55	P	49	44	51	46	0.2	0.1	-	-	-	-	-	-	-
NCA12.RES.0553	NCA12	1	290330	6279022	Residential	81 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0554	NCA12	1	290337	6279015	Residential	83 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0555	NCA12	1	290345	6279005	Residential	85 Southee Road Hobartville	60	55	P	60	55	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0556	NCA12	1	290355	6278993	Residential	87 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0557	NCA12	1	290363	6278984	Residential	89 Southee Road Hobartville	60	55	P	61	56	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0558	NCA12	1	290390	6278954	Residential	91 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0559	NCA12	1	290398	6278945	Residential	93 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0560	NCA12	1	290411	6278935	Residential	95 Southee Road Hobartville	60	55	P	59	54	62	56	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0561	NCA12	1	290419	6278920	Residential	97 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0562	NCA12	1	290432	6278905	Residential	99 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0563	NCA12	1	290440	6278899	Residential	101 Southee Road Hobartville	60	55	P	59	54	62	57	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0564	NCA12	1	290454	6278888	Residential	103 Southee Road Hobartville	60	55	P	59	54	62	56	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0565	NCA12	1	290463	6278879	Residential	105 Southee Road Hobartville	60	55	P	59	54	62	56	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0566	NCA12	1	290473	6278868	Residential	107 Southee Road Hobartville	60	55	P	59	54	62	56	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0567	NCA12	1	290480	6278856	Residential	109 Southee Road Hobartville	60	55	P	59	54	62	57	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0568	NCA12	1	290492	6278838	Residential	111 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0569	NCA12	1	290499	6278831	Residential	113 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0570	NCA12	1	290514	6278818	Residential	115 Southee Road Hobartville	60	55	P	59	54	62	57	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0571	NCA12	1	290523	6278810	Residential	117 Southee Road Hobartville	60	55	P	59	54	62	57	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0572	NCA12	1	290534	6278799	Residential	119 Southee Road Hobartville	60	55	P	59	54	62	56	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0573	NCA12	1	290542	6278789	Residential	121 Southee Road Hobartville	60	55	P	59	54	62	57	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0574	NCA12	1	290553	6278769	Residential	123 Southee Road Hobartville	60	55	P	60	55	63	58	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0575	NCA12	1	290563	6278759	Residential	125 Southee Road Hobartville	60	55	P	60	55	63	58	0	0	Y	Y	-	-	-	-	Y
NCA12.RES.0576	NCA12	1	290214	6279580	Residential	3 Tarragen Avenue Hobartville	59	54	P	47	42	49	43	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0577	NCA12	1	290178	6279638	Residential	5 Tarragen Avenue Hobartville	59	53	P	47	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0578	NCA12	1	290158	6279627	Residential	7 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0579	NCA12	1	290136	6279625	Residential	9 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0580	NCA12	1	290125	6279616	Residential	11 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.5	1.4	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0581	NCA12	1	290100	6279593	Residential	13 Tarragen Avenue Hobartville	59	53	P	47	41	49	43	1.9	1.8	-	-	-	-	-	-	-
NCA12.RES.0582	NCA12	1	290094	6279613	Residential	15 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.7	1.7	-	-	-	-	-	-	-
NCA12.RES.0583	NCA12	1	290089	6279624	Residential	17 Tarragen Avenue Hobartville	60	54	P	48	42	50	44	1.7	1.7	-	-	-	-	-	-	-
NCA12.RES.0584	NCA12	1	290094	6279647	Residential	19 Tarragen Avenue Hobartville	60	55	P	49	43	50	44	1.4	1.4	-	-	-	-	-	-	-
NCA12.RES.0585	NCA12	1	290188	6279529	Residential	2 Tarragen Avenue Hobartville	58	53	P	46	41	48	42	1.6	1.4	-	-	-	-	-	-	-
NCA12.RES.0586	NCA12	1	290175	6279548	Residential	4 Tarragen Avenue Hobartville	58	53	P	46	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0587	NCA12	1	290173	6279569	Residential	6 Tarragen Avenue Hobartville	58	52	P	46	40	47	42	1.5	1.3	-	-	-	-	-	-	-
NCA12.RES.0588	NCA12	1	290167	6279587	Residential	8 Tarragen Avenue Hobartville	59	54	P	47	42	49	43	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0589	NCA12	1	290145	6279575	Residential	10 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.6	1.4	-	-	-	-	-	-	-
NCA12.RES.0590	NCA12	1	290139	6279572	Residential	12 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.6	1.4	-	-	-	-	-	-	-
NCA12.RES.0591	NCA12	1	290122	6279564	Residential	14 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0592	NCA12	1	290111	6279554	Residential	16 Tarragen Avenue Hobartville	59	54	P	47	42	49	43	1.9	1.8	-	-	-	-	-	-	-
NCA12.RES.0593	NCA12	1	290090	6279534	Residential	18 Tarragen Avenue Hobartville	59	53	P	47	41	49	43	1.8	1.7	-	-	-	-	-	-	-
NCA12.RES.0594	NCA12	1	290095	6279554	Residential	18 Tarragen Avenue Hobartville	60	54	P	48	42	49	43	1.8	1.7	-	-	-	-	-	-	-
NCA12.RES.0595	NCA12	1	290349	6279789	Residential	1 Thompson Avenue Hobartville	60	55	P	49	44	50	44	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0596	NCA12	1	290365	6279798	Residential	1 Thompson Avenue Hobartville	60	55	P	49	43	50	44	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0597	NCA12	1	290353	6279765	Residential	3 Thompson Avenue Hobartville	60	54	P	48	42	49	43	0.9	0.9	-	-	-	-	-	-	-
NCA12.RES.0598	NCA12	1	290358	6279757	Residential	5 Thompson Avenue Hobartville	60	54	P	48	42	48	43	0.9	0.9	-	-	-	-	-	-	-
NCA12.RES.0599	NCA12	1	290371	6279737	Residential	7 Thompson Avenue Hobartville	59	54	P	47	42	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0600	NCA12	1	290381	6279718	Residential	9 Thompson Avenue Hobartville	59	54	P	47	42	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0601	NCA12	1	290389	6279709	Residential	11 Thompson Avenue Hobartville	59	53	P	47	41	48	42	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0602	NCA12	1	290397	6279691	Residential	13 Thompson Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0603	NCA12	1	290404	6279680	Residential	15 Thompson Avenue Hobartville	58	53	P	46	41	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0604	NCA12	1	290410	6279665	Residential	17 Thompson Avenue Hobartville	58	52	P	46	40	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0604	NCA12	2	290419	6279675	Residential	17 Thompson Avenue Hobartville	60	55	P	49	43	49	43	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0605	NCA12	1	290426	6279645	Residential	19 Thompson Avenue Hobartville	57	52	P	45	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0606	NCA12	1	290433	6279633	Residential	21 Thompson Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0607	NCA12	1	290300	6279774	Residential	2 Thompson Avenue Hobartville	60	55	P	51	46	52	46	0.6	0.6	-	-	-	-	-	-	-
NCA12.RES.0608	NCA12	1	290301	6279763	Residential	2 Thompson Avenue Hobartville	60	55	P	50	45	51	45	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0609	NCA12	1	290313	6279742	Residential	4 Thompson Avenue Hobartville	60	55	P	48	43	49	43	1.1	1.1	-	-	-	-	-	-	-
NCA12.RES.0610	NCA12	1	290335	6279736	Residential	6 Thompson Avenue Hobartville	59	53	P	47	41	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA12.RES.0611	NCA12	1	290329	6279714	Residential	8 Thompson Avenue Hobartville	60	54	P	48	42	49	43	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0612	NCA12	1	290352	6279713	Residential	10 Thompson Avenue Hobartville	59	54	P	47	42	48	42	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0613	NCA12	1	290353	6279693	Residential	12 Thompson Avenue Hobartville	59	54	P	47	42	48	42	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0614	NCA12	1	290373	6279676	Residential	14 Thompson Avenue Hobartville	58	53	P	46	41	46	41	0.4	0.3	-	-	-	-	-	-	-
NCA12.RES.0614	NCA12	2	290361	6279677	Residential	14 Thompson Avenue Hobartville	60	55	P	49	44	50	44	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0615	NCA12	1	290370	6279648	Residential	16 Thompson Avenue Hobartville	57	52	P	45	40	47	41	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0616	NCA12	1	290375	6279638	Residential	18 Thompson Avenue Hobartville	58	52	P	46	40	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0617	NCA12	1	290379	6279625	Residential	20 Thompson Avenue Hobartville	58	53	P	46	41	48	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0618	NCA12	1	290394	6279596	Residential	22 Thompson Avenue Hobartville	58	52	P	46	40	47	41	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0619	NCA12	1	290420	6279599	Residential	24 Thompson Avenue Hobartville	58	52	P	46	40	46	40	0.7	0.6	-	-	-	-	-	-	-
NCA12.RES.0620	NCA12	1	290393	6279586	Residential	24 Thompson Avenue Hobartville	58	52	P	46	40	47	41	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0622	NCA12	1	290407	6279574	Residential	26 Thompson Avenue Hobartville	58	53	P	46	41	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0623	NCA12	1	290419	6279581	Residential	26 Thompson Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0624	NCA12	1	290685	6279469	Residential	41 Town Street Hobartville	56	50	P	44	38	45	39	1.1	0.9	-	-	-	-	-	-	-
NCA12.RES.0625	NCA12	1	290704	6279459	Residential	43 Town Street Hobartville	57	51	P	45	39	45	39	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0626	NCA12	1	290722	6279453	Residential	45 Town Street Hobartville	57	51	P	45	39	45	40	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0627	NCA12	1	290727	6279439	Residential	47 Town Street Hobartville	56	51	P	44	39	45	39	0.5	0.4	-	-	-	-	-	-	-
NCA12.RES.0628	NCA12	1	290736	6279429	Residential	49 Town Street Hobartville	57	51	P	45	39	45	40	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0629	NCA12	1	290748	6279415	Residential	51 Town Street Hobartville	57	51	P	45	39	45	39	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0630	NCA12	1	290761	6279406	Residential	53 Town Street Hobartville	57	51	P	45	39	45	40	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0631	NCA12	1	290766	6279393	Residential	55 Town Street Hobartville	56	50	P	44	38	44	39	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0632	NCA12	1	290486	6279651	Residential	21 Valder Avenue Hobartville	58	53	P	46	41	47	41	0.7	0.7	-	-	-	-	-	-	-
NCA12.RES.0633	NCA12	1	290472	6279643	Residential	23 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.1	1.1	-	-	-	-	-	-	-
NCA12.RES.0635	NCA12	1	290462	6279633	Residential	25 Valder Avenue Hobartville	58	52	P	46	40	46	40	0.9	0.8	-	-	-	-	-	-	-
NCA12.RES.0636	NCA12	1	290445	6279617	Residential	27 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0637	NCA12	1	290289	6279498	Residential	35 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0638	NCA12	1	290272	6279486	Residential	37 Valder Avenue Hobartville	57	52	P	45	40	46	41	1.5	1.4	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA12.RES.0639	NCA12	1	290256	6279487	Residential	39 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0640	NCA12	1	290245	6279472	Residential	41 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0641	NCA12	1	290230	6279469	Residential	43 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0642	NCA12	1	290211	6279465	Residential	45 Valder Avenue Hobartville	58	52	P	46	40	47	42	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0643	NCA12	1	290205	6279462	Residential	47 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0644	NCA12	1	290182	6279455	Residential	49 Valder Avenue Hobartville	58	53	P	46	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0645	NCA12	1	290177	6279447	Residential	51 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.4	1.3	-	-	-	-	-	-	-
NCA12.RES.0646	NCA12	1	290164	6279438	Residential	53 Valder Avenue Hobartville	58	52	P	46	40	48	42	1.6	1.5	-	-	-	-	-	-	-
NCA12.RES.0647	NCA12	1	290151	6279433	Residential	55 Valder Avenue Hobartville	58	53	P	46	41	48	42	1.4	1.4	-	-	-	-	-	-	-
NCA12.RES.0648	NCA12	1	290131	6279427	Residential	57 Valder Avenue Hobartville	59	53	P	47	41	48	42	1.5	1.4	-	-	-	-	-	-	-
NCA12.RES.0649	NCA12	1	290118	6279413	Residential	59 Valder Avenue Hobartville	57	52	P	45	40	47	42	1	0.9	-	-	-	-	-	-	-
NCA12.RES.0650	NCA12	1	290095	6279417	Residential	61 Valder Avenue Hobartville	58	53	P	46	41	48	42	1.2	1	-	-	-	-	-	-	-
NCA12.RES.0651	NCA12	1	290086	6279408	Residential	63 Valder Avenue Hobartville	59	53	P	47	41	49	43	1.1	1	-	-	-	-	-	-	-
NCA12.RES.0652	NCA12	1	290016	6279376	Residential	65 Valder Avenue Hobartville	60	55	P	62	57	65	59	0.1	0	Y	Y	-	-	-	-	Y
NCA12.RES.0655	NCA12	1	290383	6279500	Residential	28 Valder Avenue Hobartville	58	53	P	46	41	47	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0656	NCA12	1	290367	6279488	Residential	30 Valder Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0657	NCA12	1	290358	6279479	Residential	32 Valder Avenue Hobartville	58	53	P	46	41	47	42	1.2	1.2	-	-	-	-	-	-	-
NCA12.RES.0658	NCA12	1	290320	6279453	Residential	34 Valder Avenue Hobartville	58	52	P	46	40	47	41	1.2	1.1	-	-	-	-	-	-	-
NCA12.RES.0659	NCA12	1	290276	6279437	Residential	36 Valder Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0660	NCA12	1	290261	6279430	Residential	38 Valder Avenue Hobartville	59	53	P	47	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0661	NCA12	1	290249	6279402	Residential	40 Valder Avenue Hobartville	58	53	P	46	41	48	42	1.3	1.2	-	-	-	-	-	-	-
NCA12.RES.0662	NCA12	1	290108	6279365	Residential	42 Valder Avenue Hobartville	60	55	P	48	43	50	45	1	0.8	-	-	-	-	-	-	-
NCA12.RES.0663	NCA12	1	290088	6279361	Residential	44 Valder Avenue Hobartville	60	55	P	49	44	51	46	0.8	0.7	-	-	-	-	-	-	-
NCA12.RES.0664	NCA12	1	290074	6279359	Residential	46 Valder Avenue Hobartville	60	55	P	50	45	53	47	0.6	0.5	-	-	-	-	-	-	-
NCA12.RES.0665	NCA12	1	290047	6279344	Residential	48 Valder Avenue Hobartville	60	55	P	61	56	64	58	0.1	0	Y	Y	-	-	-	-	Y
NCA13.OED.0001	NCA13	1	290981	6278878	Other (Educational)	86 Londonderry Road Hobartville	50	-	H	52	50	52	51	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0001	NCA13	2	290981	6278878	Other (Educational)	86 Londonderry Road Hobartville	50	-	H	53	52	54	52	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0002	NCA13	1	290951	6278854	Other (Educational)	90 Londonderry Road Hobartville	50	-	H	52	51	53	51	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0003	NCA13	1	290784	6278610	Other (Educational)	112 Londonderry Road Hobartville	50	-	H	50	49	51	49	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0003	NCA13	2	290784	6278610	Other (Educational)	112 Londonderry Road Hobartville	50	-	H	52	50	53	51	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0004	NCA13	1	290891	6278791	Other (Educational)	1 Smith Avenue Hobartville	50	-	H	51	50	52	50	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0004	NCA13	2	290891	6278791	Other (Educational)	1 Smith Avenue Hobartville	50	-	H	53	52	54	52	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0004	NCA13	3	290891	6278791	Other (Educational)	1 Smith Avenue Hobartville	50	-	H	54	53	55	53	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0005	NCA13	1	290852	6278669	Other (Educational)	2 Smith Avenue Hobartville	50	-	H	49	48	50	48	0.3	0.1	-	-	-	-	-	-	-
NCA13.OED.0007	NCA13	1	291469	6278454	Other (Educational)	2 College Street Richmond	50	-	H	40	38	41	39	0.6	0.5	-	-	-	-	-	-	-
NCA13.OED.0007	NCA13	2	291469	6278454	Other (Educational)	2 College Street Richmond	50	-	H	42	40	42	40	0.8	0.6	-	-	-	-	-	-	-
NCA13.OED.0008	NCA13	1	291060	6278546	Other (Educational)	2 College Street Richmond	50	-	H	43	41	44	42	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0008	NCA13	2	291060	6278546	Other (Educational)	2 College Street Richmond	50	-	H	44	43	46	44	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0008	NCA13	3	291060	6278546	Other (Educational)	2 College Street Richmond	50	-	H	46	45	48	46	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0009	NCA13	1	291347	6278467	Other (Educational)	2 College Street Richmond	50	-	H	41	39	42	40	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0009	NCA13	2	291347	6278467	Other (Educational)	2 College Street Richmond	50	-	H	43	41	44	42	0.5	0.4	-	-	-	-	-	-	-
NCA13.OED.0010	NCA13	1	291391	6278520	Other (Educational)	2 College Street Richmond	50	-	H	42	40	42	40	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0010	NCA13	2	291391	6278520	Other (Educational)	2 College Street Richmond	50	-	H	43	41	44	42	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0011	NCA13	1	291054	6278611	Other (Educational)	2 College Street Richmond	50	-	H	45	43	46	44	0.7	0.6	-	-	-	-	-	-	-
NCA13.OED.0011	NCA13	2	291054	6278611	Other (Educational)	2 College Street Richmond	50	-	H	46	45	48	45	0.8	0.6	-	-	-	-	-	-	-
NCA13.OED.0011	NCA13	3	291054	6278611	Other (Educational)	2 College Street Richmond	50	-	H	48	46	49	47	0.8	0.6	-	-	-	-	-	-	-
NCA13.OED.0012	NCA13	1	291080	6278831	Other (Educational)	2 College Street Richmond	50	-	H	48	46	48	46	0.4	0.2	-	-	-	-	-	-	-
NCA13.OED.0013	NCA13	1	291056	6278796	Other (Educational)	2 College Street Richmond	50	-	H	47	45	48	46	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0014	NCA13	1	290931	6278687	Other (Educational)	2 College Street Richmond	50	-	H	46	44	47	45	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0015	NCA13	1	291384	6278412	Other (Educational)	2 College Street Richmond	50	-	H	40	38	41	39	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0016	NCA13	1	291090	6278644	Other (Educational)	2 College Street Richmond	50	-	H	44	42	45	43	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0016	NCA13	2	291090	6278644	Other (Educational)	2 College Street Richmond	50	-	H	45	44	46	44	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0017	NCA13	1	291361	6278530	Other (Educational)	2 College Street Richmond	50	-	H	40	38	40	38	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0017	NCA13	2	291361	6278530	Other (Educational)	2 College Street Richmond	50	-	H	42	40	43	41	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0018	NCA13	1	290948	6278681	Other (Educational)	2 College Street Richmond	50	-	H	46	44	47	45	0.6	0.5	-	-	-	-	-	-	-
NCA13.OED.0019	NCA13	1	291212	6278545	Other (Educational)	2 College Street Richmond	50	-	H	43	41	43	41	0.7	0.5	-	-	-	-	-	-	-
NCA13.OED.0020	NCA13	1	291037	6278826	Other (Educational)	2 College Street Richmond	50	-	H	48	47	49	47	0.1	0	-	-	-	-	-	-	-
NCA13.OED.0021	NCA13	1	290938	6278724	Other (Educational)	2 College Street Richmond	50	-	H	47	45	48	46	0.3	0.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA13.OED.0022	NCA13	1	290941	6278644	Other (Educational)	2 College Street Richmond	50	-	H	46	44	47	45	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0023	NCA13	1	290975	6278732	Other (Educational)	2 College Street Richmond	50	-	H	46	45	47	45	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0024	NCA13	1	291124	6278627	Other (Educational)	2 College Street Richmond	50	-	H	44	42	44	42	0.1	0	-	-	-	-	-	-	-
NCA13.OED.0024	NCA13	2	291124	6278627	Other (Educational)	2 College Street Richmond	50	-	H	45	43	46	44	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0024	NCA13	3	291108	6278508	Other (Educational)	2 College Street Richmond	50	-	H	46	45	48	46	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0025	NCA13	1	291301	6278581	Other (Educational)	2 College Street Richmond	50	-	H	44	42	44	42	0.7	0.5	-	-	-	-	-	-	-
NCA13.OED.0025	NCA13	2	291301	6278581	Other (Educational)	2 College Street Richmond	50	-	H	45	43	45	43	0.7	0.5	-	-	-	-	-	-	-
NCA13.OED.0025	NCA13	3	291301	6278581	Other (Educational)	2 College Street Richmond	50	-	H	45	44	46	44	0.8	0.6	-	-	-	-	-	-	-
NCA13.OED.0026	NCA13	1	290956	6278734	Other (Educational)	2 College Street Richmond	50	-	H	46	45	47	45	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0027	NCA13	1	291245	6278588	Other (Educational)	2 College Street Richmond	50	-	H	44	42	44	42	0.7	0.6	-	-	-	-	-	-	-
NCA13.OED.0028	NCA13	1	291446	6278466	Other (Educational)	2 College Street Richmond	50	-	H	37	35	38	36	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0028	NCA13	2	291430	6278472	Other (Educational)	2 College Street Richmond	50	-	H	40	38	41	39	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0028	NCA13	3	291430	6278472	Other (Educational)	2 College Street Richmond	50	-	H	44	42	45	43	0.6	0.5	-	-	-	-	-	-	-
NCA13.OED.0029	NCA13	1	290907	6278702	Other (Educational)	2 College Street Richmond	50	-	H	48	46	49	47	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0030	NCA13	1	290920	6278675	Other (Educational)	2 College Street Richmond	50	-	H	47	45	48	46	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0031	NCA13	1	291405	6278441	Other (Educational)	2 College Street Richmond	50	-	H	39	37	40	38	0.8	0.6	-	-	-	-	-	-	-
NCA13.OED.0031	NCA13	2	291405	6278441	Other (Educational)	2 College Street Richmond	50	-	H	42	40	43	41	0.7	0.5	-	-	-	-	-	-	-
NCA13.OED.0032	NCA13	1	291230	6278529	Other (Educational)	2 College Street Richmond	50	-	H	43	41	43	41	0.7	0.6	-	-	-	-	-	-	-
NCA13.OED.0033	NCA13	1	291429	6278561	Other (Educational)	2 College Street Richmond	50	-	H	43	41	43	41	0.7	0.5	-	-	-	-	-	-	-
NCA13.OED.0034	NCA13	1	291062	6278699	Other (Educational)	2 College Street Richmond	50	-	H	47	45	48	46	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0034	NCA13	2	291062	6278699	Other (Educational)	2 College Street Richmond	50	-	H	48	47	49	47	0.6	0.4	-	-	-	-	-	-	-
NCA13.OED.0034	NCA13	3	291050	6278686	Other (Educational)	2 College Street Richmond	50	-	H	49	48	50	48	0.6	0.4	-	-	-	-	-	-	-
NCA13.OED.0035	NCA13	1	290954	6278698	Other (Educational)	2 College Street Richmond	50	-	H	45	44	46	44	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0036	NCA13	1	291068	6278797	Other (Educational)	2 College Street Richmond	50	-	H	47	45	48	46	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0061	NCA13	1	291085	6278391	Other (Educational)	Londonderry Road Richmond	50	-	H	42	41	44	42	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0062	NCA13	1	290954	6278569	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0063	NCA13	1	290979	6278532	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	46	44	0.5	0.4	-	-	-	-	-	-	-
NCA13.OED.0063	NCA13	2	290979	6278532	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	48	46	0.6	0.4	-	-	-	-	-	-	-
NCA13.OED.0064	NCA13	1	291164	6278253	Other (Educational)	Londonderry Road Richmond	50	-	H	40	38	42	39	0.7	0.6	-	-	-	-	-	-	-
NCA13.OED.0064	NCA13	2	291164	6278253	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	44	42	0.7	0.6	-	-	-	-	-	-	-
NCA13.OED.0065	NCA13	1	291101	6278329	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	44	42	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0065	NCA13	2	291101	6278329	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	46	44	0.6	0.5	-	-	-	-	-	-	-
NCA13.OED.0066	NCA13	1	291057	6278416	Other (Educational)	Londonderry Road Richmond	50	-	H	42	41	44	42	0.4	0.2	-	-	-	-	-	-	-
NCA13.OED.0067	NCA13	1	291119	6278452	Other (Educational)	Londonderry Road Richmond	50	-	H	41	40	43	41	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0068	NCA13	1	291042	6278457	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	44	42	0.5	0.4	-	-	-	-	-	-	-
NCA13.OED.0069	NCA13	1	291077	6278360	Other (Educational)	Londonderry Road Richmond	50	-	H	43	42	45	42	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0070	NCA13	1	291216	6278273	Other (Educational)	Londonderry Road Richmond	50	-	H	40	38	41	39	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0071	NCA13	1	291119	6278207	Other (Educational)	Londonderry Road Richmond	50	-	H	42	41	44	42	0.1	0.1	-	-	-	-	-	-	-
NCA13.OED.0071	NCA13	2	291119	6278207	Other (Educational)	Londonderry Road Richmond	50	-	H	44	43	46	44	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0072	NCA13	1	290892	6278526	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	47	45	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0073	NCA13	1	291200	6278266	Other (Educational)	Londonderry Road Richmond	50	-	H	40	39	41	39	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0074	NCA13	1	290895	6278400	Other (Educational)	Londonderry Road Richmond	50	-	H	44	43	46	44	0.1	0	-	-	-	-	-	-	-
NCA13.OED.0074	NCA13	2	290895	6278400	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	48	46	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0075	NCA13	1	290878	6278516	Other (Educational)	Londonderry Road Richmond	50	-	H	46	45	48	46	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0076	NCA13	1	290938	6278594	Other (Educational)	Londonderry Road Richmond	50	-	H	46	45	47	45	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0077	NCA13	1	290966	6278560	Other (Educational)	Londonderry Road Richmond	50	-	H	44	43	46	44	0.2	0.1	-	-	-	-	-	-	-
NCA13.OED.0078	NCA13	1	290960	6278410	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0079	NCA13	1	291004	6278304	Other (Educational)	Londonderry Road Richmond	50	-	H	44	43	46	43	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0079	NCA13	2	291004	6278304	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	47	45	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0080	NCA13	1	291037	6278330	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	44	42	0.5	0.4	-	-	-	-	-	-	-
NCA13.OED.0081	NCA13	1	290949	6278397	Other (Educational)	Londonderry Road Richmond	50	-	H	43	42	45	43	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0082	NCA13	1	290931	6278452	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0082	NCA13	2	290931	6278452	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	48	46	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0083	NCA13	1	291058	6278155	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0084	NCA13	1	291050	6278518	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.8	0.6	-	-	-	-	-	-	-
NCA13.OED.0084	NCA13	2	291050	6278518	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	47	45	0.7	0.6	-	-	-	-	-	-	-
NCA13.OED.0085	NCA13	1	290975	6278425	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0085	NCA13	2	290975	6278425	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	48	46	0.5	0.4	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA13.OED.0086	NCA13	1	291217	6278311	Other (Educational)	Londonderry Road Richmond	50	-	H	41	39	42	40	0.7	0.5	-	-	-	-	-	-	-
NCA13.OED.0087	NCA13	1	290921	6278478	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	46	44	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0088	NCA13	1	291116	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	44	42	0.5	0.4	-	-	-	-	-	-	-
NCA13.OED.0088	NCA13	2	291116	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	46	44	0.6	0.4	-	-	-	-	-	-	-
NCA13.OED.0089	NCA13	1	290866	6278497	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	48	46	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0090	NCA13	1	290851	6278468	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	48	46	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0090	NCA13	2	290851	6278468	Other (Educational)	Londonderry Road Richmond	50	-	H	48	47	50	48	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0091	NCA13	1	291108	6278470	Other (Educational)	Londonderry Road Richmond	50	-	H	41	40	43	41	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0092	NCA13	1	291133	6278427	Other (Educational)	Londonderry Road Richmond	50	-	H	42	41	44	41	0.6	0.4	-	-	-	-	-	-	-
NCA13.OED.0093	NCA13	1	291081	6278259	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0093	NCA13	2	291081	6278259	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	47	45	0.5	0.3	-	-	-	-	-	-	-
NCA13.OED.0094	NCA13	1	291096	6278364	Other (Educational)	Londonderry Road Richmond	50	-	H	42	40	43	41	0.6	0.4	-	-	-	-	-	-	-
NCA13.OED.0095	NCA13	1	291071	6278290	Other (Educational)	Londonderry Road Richmond	50	-	H	42	41	43	41	0.4	0.3	-	-	-	-	-	-	-
NCA13.OED.0096	NCA13	1	290914	6278433	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	0.6	0.4	-	-	-	-	-	-	-
NCA13.OED.0097	NCA13	1	291159	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	38	36	39	37	0.3	0.2	-	-	-	-	-	-	-
NCA13.OED.0097	NCA13	2	291159	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	40	39	42	40	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0006	NCA13	1	290744	6278824	Residential	2 Smith Avenue Hobartville	60	55	P	64	59	64	60	0	0	-	-	-	-	-	-	-
NCA13.RES.0006	NCA13	2	290744	6278824	Residential	2 Smith Avenue Hobartville	60	55	P	65	61	66	61	0	0	-	-	-	-	-	-	-
NCA13.RES.0037	NCA13	1	290801	6278268	Residential	133 Londonderry Road Richmond	57	52	P	45	40	47	42	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0038	NCA13	1	290739	6278314	Residential	133 Londonderry Road Richmond	58	53	P	46	41	48	43	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0038	NCA13	2	290739	6278314	Residential	133 Londonderry Road Richmond	60	55	P	48	43	50	44	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0039	NCA13	1	290710	6278408	Residential	133 Londonderry Road Richmond	58	53	P	46	41	47	42	0.1	0.1	-	-	-	-	-	-	-
NCA13.RES.0040	NCA13	1	290728	6278447	Residential	133 Londonderry Road Richmond	59	54	P	47	42	48	43	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0041	NCA13	1	290763	6278434	Residential	133 Londonderry Road Richmond	57	52	P	45	40	47	41	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0042	NCA13	1	290728	6278400	Residential	133 Londonderry Road Richmond	56	51	P	44	39	45	40	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0043	NCA13	1	290717	6278432	Residential	133 Londonderry Road Richmond	58	53	P	46	41	47	42	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0044	NCA13	1	290693	6278357	Residential	133 Londonderry Road Richmond	60	55	P	48	43	49	44	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0044	NCA13	2	290693	6278357	Residential	133 Londonderry Road Richmond	60	55	P	50	45	51	46	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0045	NCA13	1	290649	6278505	Residential	133 Londonderry Road Richmond	60	55	P	51	46	53	48	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0046	NCA13	1	290759	6278411	Residential	133 Londonderry Road Richmond	56	51	P	44	39	45	40	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0047	NCA13	1	290691	6278499	Residential	133 Londonderry Road Richmond	60	55	P	48	43	50	45	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0048	NCA13	1	290669	6278378	Residential	133 Londonderry Road Richmond	60	55	P	49	44	51	46	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0049	NCA13	1	290800	6278379	Residential	133 Londonderry Road Richmond	55	50	P	43	38	44	39	0.5	0.4	-	-	-	-	-	-	-
NCA13.RES.0050	NCA13	1	290740	6278387	Residential	133 Londonderry Road Richmond	57	52	P	45	40	46	41	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0051	NCA13	1	290768	6278356	Residential	133 Londonderry Road Richmond	56	51	P	44	39	45	40	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0052	NCA13	1	290783	6278386	Residential	133 Londonderry Road Richmond	55	50	P	43	38	44	39	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0053	NCA13	1	290762	6278293	Residential	133 Londonderry Road Richmond	58	53	P	46	41	47	42	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0053	NCA13	2	290762	6278293	Residential	133 Londonderry Road Richmond	59	54	P	47	42	49	44	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0054	NCA13	1	290751	6278368	Residential	133 Londonderry Road Richmond	57	52	P	45	40	46	41	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0055	NCA13	1	290525	6278333	Residential	133 Londonderry Road Richmond	60	55	P	58	53	60	54	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0055	NCA13	2	290525	6278333	Residential	133 Londonderry Road Richmond	60	55	P	59	54	61	56	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0056	NCA13	1	290700	6278423	Residential	133 Londonderry Road Richmond	59	54	P	47	42	49	43	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0057	NCA13	1	290716	6278335	Residential	133 Londonderry Road Richmond	59	54	P	47	42	49	43	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0057	NCA13	2	290716	6278335	Residential	133 Londonderry Road Richmond	60	55	P	48	43	50	45	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0058	NCA13	1	290637	6278464	Residential	133 Londonderry Road Richmond	60	55	P	51	46	53	47	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0059	NCA13	1	290756	6278396	Residential	133 Londonderry Road Richmond	55	50	P	43	38	45	39	0.4	0.3	-	-	-	-	-	-	-
NCA13.RES.0060	NCA13	1	290784	6278345	Residential	133 Londonderry Road Richmond	55	50	P	43	38	45	40	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0098	NCA13	1	290796	6278332	Residential	Londonderry Road Richmond	56	51	P	44	39	45	40	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0099	NCA13	1	290892	6278271	Residential	Londonderry Road Richmond	52	47	P	40	35	41	36	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0099	NCA13	2	290892	6278271	Residential	Londonderry Road Richmond	57	52	P	45	40	47	42	0.4	0.3	-	-	-	-	-	-	-
NCA13.RES.0100	NCA13	1	290883	6278364	Residential	Londonderry Road Richmond	56	51	P	44	39	46	40	0.5	0.4	-	-	-	-	-	-	-
NCA13.RES.0101	NCA13	1	290798	6278409	Residential	Londonderry Road Richmond	57	52	P	45	40	47	41	0.4	0.3	-	-	-	-	-	-	-
NCA13.RES.0102	NCA13	1	290821	6278261	Residential	Londonderry Road Richmond	56	51	P	44	39	46	41	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0102	NCA13	2	290821	6278261	Residential	Londonderry Road Richmond	59	54	P	47	42	49	43	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0103	NCA13	1	290881	6278303	Residential	Londonderry Road Richmond	54	49	P	42	37	44	38	0.3	0.1	-	-	-	-	-	-	-
NCA13.RES.0104	NCA13	1	290906	6278301	Residential	Londonderry Road Richmond	53	48	P	41	36	42	37	0.2	0.1	-	-	-	-	-	-	-
NCA13.RES.0105	NCA13	1	290797	6278388	Residential	Londonderry Road Richmond	55	50	P	43	38	45	39	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0106	NCA13	1	290851	6278347	Residential	Londonderry Road Richmond	55	50	P	43	38	44	39	0.3	0.2	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation
										Year of Opening (Stage 2A)						>2dBA Increase[2]		Cumulative Limit[3]		Project Acute[4]		
										No Build		Build		Project Road Contribution								
							D	N		D	N	D	N	D	N	D	N	D	N	D	N	
NCA13.RES.0107	NCA13	1	290859	6278263	Residential	Londonderry Road Richmond	56	51	P	44	39	45	40	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0108	NCA13	1	290874	6278239	Residential	Londonderry Road Richmond	55	51	P	43	39	45	40	0.1	0	-	-	-	-	-	-	-
NCA13.RES.0108	NCA13	2	290872	6278249	Residential	Londonderry Road Richmond	58	53	P	46	41	48	42	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0109	NCA13	1	290832	6278395	Residential	Londonderry Road Richmond	57	52	P	45	40	47	42	0.4	0.3	-	-	-	-	-	-	-
NCA13.RES.0110	NCA13	1	290822	6278366	Residential	Londonderry Road Richmond	56	50	P	44	38	45	39	0.4	0.3	-	-	-	-	-	-	-
NCA13.RES.0111	NCA13	1	290844	6278306	Residential	Londonderry Road Richmond	56	51	P	44	39	45	40	0.3	0.2	-	-	-	-	-	-	-
NCA13.RES.0112	NCA13	1	290948	6278305	Residential	Londonderry Road Richmond	54	49	P	42	37	43	38	0.4	0.3	-	-	-	-	-	-	-
NCA13.RES.0112	NCA13	2	290960	6278304	Residential	Londonderry Road Richmond	56	51	P	44	39	46	40	0.7	0.5	-	-	-	-	-	-	-
NCA13.RES.0113	NCA13	1	290880	6278285	Residential	Londonderry Road Richmond	55	50	P	43	38	44	39	0.4	0.3	-	-	-	-	-	-	-

Note 1: The predicted noise level results are based on the triggered facade with the highest level per floor. If no facades are triggered, then the highest noise level of all facades is presented for each floor.

Note 2: The >2 dB increase trigger is presented for the facade with the greatest increase per floor and may not be the same as the facade with the highest noise levels.

Note 3: The cumulative limit trigger requires predicted noise levels to be 5 dB or more above the RNCG criteria and have a contribution of 2.0 dB or greater from project roads. If a receiver has noise levels 5 dB or more above the RNCG criteria but does not trigger the cumulative limit, then the project road contribution is less than 2.0 dB.

Note 4: The acute trigger requires predicted noise levels from project roads to be ≥65 dBA during the daytime (15hr) or ≥60 dBA during the night-time (9hr). If a receiver has noise levels above the acute level but does not trigger the acute criteria, the project road contribution is less than the criteria.

Stage 2B Receiver Assessment Table

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA01.RES.0001	NCA01	1	288109	6282920	Residential	1 Crooked Lane North Richmond	60	55	P	58	52	60	53	0.2	0.1	-	-	-	-	-	-	-	-
NCA01.RES.0001	NCA01	2	288109	6282920	Residential	1 Crooked Lane North Richmond	60	55	P	60	54	62	56	0.1	0.1	-	-	-	-	-	-	-	-
NCA01.RES.0002	NCA01	1	288171	6283000	Residential	47 Crooked Lane North Richmond	60	55	P	54	48	56	49	0.2	0.1	-	-	-	-	-	-	-	-
NCA02.RES.0001	NCA02	1	288298	6282489	Residential	84 Bells Line Of Road North Richmond	60	55	P	59	53	61	55	2.4	2.3	-	-	-	-	-	-	-	-
NCA02.RES.0002	NCA02	1	288267	6282886	Residential	1 Douglas Street North Richmond	60	55	P	58	52	61	54	0.5	0.4	-	-	-	-	-	-	-	-
NCA02.RES.0003	NCA02	1	288292	6283035	Residential	31 Douglas Street North Richmond	60	55	P	55	49	59	53	0.1	0	-	-	-	-	-	-	-	-
NCA02.RES.0004	NCA02	1	288384	6282764	Residential	24 Douglas Street North Richmond	60	55	P	54	48	60	53	1.9	1.8	-	-	-	-	-	-	-	-
NCA03.OME.0051	NCA03	1	288303	6282084	Other (Medical)	4 Grose Vale Road North Richmond	45	-	H	51	45	55	49	3	2.6	-	-	Y	-	-	-	Y	-
NCA03.OME.0055	NCA03	1	288243	6282032	Other (Medical)	12 Grose Vale Road North Richmond	45	-	H	51	45	55	48	2.2	1.9	-	-	Y	-	-	-	Y	-
NCA03.RES.0001	NCA03	1	288248	6282130	Residential	12/63 Bells Line Of Road North Richmond	60	55	P	49	43	54	48	6.5	5.7	-	-	-	-	-	-	-	-
NCA03.RES.0001	NCA03	2	288235	6282138	Residential	12/63 Bells Line Of Road North Richmond	60	55	P	61	55	62	56	7.6	7.1	-	-	-	-	-	-	-	-
NCA03.RES.0002	NCA03	1	288289	6282147	Residential	2/63 Bells Line Of Road North Richmond	60	55	P	63	57	64	57	20.6	20	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0003	NCA03	1	288271	6282164	Residential	14/63 Bells Line Of Road North Richmond	60	55	P	60	54	61	54	22.5	21.8	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0003	NCA03	2	288271	6282164	Residential	14/63 Bells Line Of Road North Richmond	60	55	P	53	47	54	48	19	18.4	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0004	NCA03	1	288252	6282135	Residential	13/63 Bells Line Of Road North Richmond	60	55	P	61	55	62	56	6.9	6.2	-	-	-	-	-	-	-	-
NCA03.RES.0004	NCA03	2	288247	6282150	Residential	13/63 Bells Line Of Road North Richmond	60	55	P	62	56	63	57	10.9	10.5	-	-	-	-	-	-	-	-
NCA03.RES.0005	NCA03	1	288267	6282139	Residential	10/63 Bells Line Of Road North Richmond	60	55	P	63	57	63	57	12.1	11.3	-	-	-	-	-	-	-	-
NCA03.RES.0006	NCA03	1	288282	6282109	Residential	9/63 Bells Line Of Road North Richmond	60	55	P	61	55	62	56	7.9	7.3	-	-	-	-	-	-	-	-
NCA03.RES.0007	NCA03	1	288297	6282104	Residential	4/63 Bells Line Of Road North Richmond	60	55	P	63	57	64	57	5.9	5.3	-	-	-	-	-	-	-	-
NCA03.RES.0007	NCA03	2	288297	6282104	Residential	4/63 Bells Line Of Road North Richmond	60	55	P	63	57	64	57	5.2	4.7	-	-	-	-	-	-	-	-
NCA03.RES.0008	NCA03	1	288271	6282089	Residential	6/63 Bells Line Of Road North Richmond	60	55	P	63	57	64	57	0.7	0.5	-	-	-	-	-	-	-	-
NCA03.RES.0009	NCA03	1	288269	6282104	Residential	8/63 Bells Line Of Road North Richmond	60	55	P	61	55	62	56	2.3	2	-	-	-	-	-	-	-	-
NCA03.RES.0010	NCA03	1	288309	6282125	Residential	3/63 Bells Line Of Road North Richmond	60	55	P	63	56	63	57	18.3	17.7	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0010	NCA03	2	288309	6282125	Residential	3/63 Bells Line Of Road North Richmond	60	55	P	60	54	61	54	16.9	16.4	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0011	NCA03	1	288253	6282167	Residential	77 Bells Line Of Road North Richmond	60	55	P	61	55	62	55	18.9	18.1	-	-	Y	-	Y	-	Y	-
NCA03.RES.0012	NCA03	1	288188	6282174	Residential	79 Bells Line Of Road North Richmond	60	55	P	59	53	60	54	9	8.5	-	-	-	-	-	-	-	-
NCA03.RES.0013	NCA03	1	288227	6282146	Residential	1/79 Bells Line Of Road North Richmond	60	55	P	60	54	61	54	5.6	5.2	-	-	-	-	-	-	-	-
NCA03.RES.0014	NCA03	1	288202	6282183	Residential	83 Bells Line Of Road North Richmond	60	55	P	62	56	63	57	11.6	11	-	-	-	-	-	-	-	-
NCA03.RES.0015	NCA03	1	288145	6282292	Residential	97 Bells Line Of Road North Richmond	60	55	P	62	56	63	57	20.6	20	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0016	NCA03	1	288116	6282302	Residential	97A Bells Line Of Road North Richmond	60	55	P	60	54	61	55	12.6	11.9	-	-	-	-	-	-	-	-
NCA03.RES.0017	NCA03	1	288125	6282274	Residential	97A Bells Line Of Road North Richmond	60	55	P	60	54	61	55	10.4	9.9	-	-	-	-	-	-	-	-
NCA03.RES.0018	NCA03	1	288117	6282262	Residential	97A Bells Line Of Road North Richmond	60	55	P	63	56	64	57	7.7	7.2	-	-	-	-	-	-	-	-
NCA03.RES.0019	NCA03	1	288133	6282320	Residential	99 Bells Line Of Road North Richmond	60	55	P	64	58	65	59	20.5	20.1	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0020	NCA03	1	288104	6282309	Residential	101 Bells Line Of Road North Richmond	60	55	P	61	55	62	56	11.8	11.3	-	-	-	-	-	-	-	-
NCA03.RES.0021	NCA03	1	288119	6282336	Residential	101A Bells Line Of Road North Richmond	60	55	P	62	56	63	56	15.4	15.2	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0022	NCA03	1	288090	6282297	Residential	101 Bells Line Of Road North Richmond	60	55	P	61	55	62	56	8.3	7.8	-	-	-	-	-	-	-	-
NCA03.RES.0023	NCA03	1	288092	6282351	Residential	103 Bells Line Of Road North Richmond	60	55	P	58	53	60	53	15.4	15	-	-	-	-	-	-	-	-
NCA03.RES.0024	NCA03	1	288075	6282361	Residential	7/105 Bells Line Of Road North Richmond	60	55	P	57	51	58	52	5.7	5.6	-	-	-	-	-	-	-	-
NCA03.RES.0025	NCA03	1	288054	6282376	Residential	8/105 Bells Line Of Road North Richmond	60	55	P	59	53	61	54	5.9	5.8	-	-	-	-	-	-	-	-
NCA03.RES.0026	NCA03	1	288080	6282375	Residential	105 Bells Line Of Road North Richmond	60	55	P	57	51	58	52	7.7	7.6	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0027	NCA03	1	288028	6282382	Residential	7/107 Bells Line Of Road North Richmond	60	55	P	50	44	53	47	2.5	2.5	-	-	-	-	-	-	-	-
NCA03.RES.0028	NCA03	1	288017	6282370	Residential	2/107 Bells Line Of Road North Richmond	60	55	P	51	45	54	48	2.1	2	-	-	-	-	-	-	-	-
NCA03.RES.0029	NCA03	1	288050	6282403	Residential	1/107 Bells Line Of Road North Richmond	60	55	P	51	45	54	48	3.5	3.4	-	-	Y	-	-	-	Y	-
NCA03.RES.0030	NCA03	1	288046	6282387	Residential	3/107 Bells Line Of Road North Richmond	60	55	P	50	44	53	47	0.9	0.9	-	-	-	-	-	-	-	-
NCA03.RES.0031	NCA03	1	288061	6282396	Residential	1/107 Bells Line Of Road North Richmond	60	55	P	50	44	54	47	3.5	3.4	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0032	NCA03	1	288036	6282423	Residential	107A Bells Line Of Road North Richmond	60	55	P	49	43	53	47	0.7	0.6	-	-	-	-	-	-	-	-
NCA03.RES.0033	NCA03	1	288028	6282377	Residential	6/107 Bells Line Of Road North Richmond	60	55	P	49	43	52	46	1.1	1	-	-	-	-	-	-	-	-
NCA03.RES.0034	NCA03	1	288016	6282411	Residential	109 Bells Line Of Road North Richmond	60	55	P	49	43	54	48	0.7	0.6	-	-	-	-	-	-	-	-
NCA03.RES.0035	NCA03	1	287997	6282415	Residential	109A Bells Line Of Road North Richmond	60	55	P	48	42	54	48	0.6	0.5	-	-	-	-	-	-	-	-
NCA03.RES.0035	NCA03	2	287997	6282415	Residential	109A Bells Line Of Road North Richmond	60	55	P	48	42	53	46	0.7	0.6	-	-	-	-	-	-	-	-
NCA03.RES.0036	NCA03	1	287978	6282424	Residential	109B Bells Line Of Road North Richmond	60	55	P	48	42	53	47	0.7	0.6	-	-	-	-	-	-	-	-
NCA03.RES.0036	NCA03	2	287978	6282424	Residential	109B Bells Line Of Road North Richmond	60	55	P	48	42	53	46	0.7	0.6	-	-	-	-	-	-	-	-
NCA03.RES.0037	NCA03	1	288092	6282207	Residential	19 Charles Street North Richmond	60	55	P	48	42	53	46	5.9	5.6	-	-	-	-	-	-	-	-
NCA03.RES.0038	NCA03	1	288102	6282252	Residential	19 Charles Street North Richmond	60	55	P	48	42	53	47	6.1	5.6	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA03.RES.0039	NCA03	1	288114	6282229	Residential	19 Charles Street North Richmond	60	55	P	49	43	54	48	7.1	6.6	-	-	-	-	-	-	-	-
NCA03.RES.0040	NCA03	1	288099	6282215	Residential	19 Charles Street North Richmond	60	55	P	51	44	54	48	6.2	5.7	-	-	-	-	-	-	-	-
NCA03.RES.0041	NCA03	1	288132	6282239	Residential	23 Charles Street North Richmond	60	55	P	51	45	54	48	10.5	9.9	-	-	-	-	-	-	-	-
NCA03.RES.0042	NCA03	1	288144	6282250	Residential	23 Charles Street North Richmond	60	55	P	51	45	55	49	12.2	11.5	-	-	-	-	-	-	-	-
NCA03.RES.0043	NCA03	1	288161	6282275	Residential	25 Charles Street North Richmond	60	55	P	51	45	55	49	20.7	20.1	-	-	Y	Y	Y	Y	Y	-
NCA03.RES.0044	NCA03	1	288118	6282177	Residential	8 Charles Street North Richmond	60	55	P	52	46	56	50	5.3	4.9	-	-	-	-	-	-	-	-
NCA03.RES.0045	NCA03	1	288152	6282201	Residential	10 Charles Street North Richmond	60	55	P	50	44	54	48	7.3	6.7	-	-	-	-	-	-	-	-
NCA03.RES.0045	NCA03	2	288149	6282212	Residential	10 Charles Street North Richmond	60	55	P	51	46	53	47	9.1	8.7	-	-	-	-	-	-	-	-
NCA03.RES.0046	NCA03	1	288131	6282185	Residential	10 Charles Street North Richmond	60	55	P	52	46	53	47	5.7	5.3	-	-	-	-	-	-	-	-
NCA03.RES.0046	NCA03	2	288131	6282185	Residential	10 Charles Street North Richmond	60	55	P	52	46	53	47	5.4	5.1	-	-	-	-	-	-	-	-
NCA03.RES.0047	NCA03	1	288142	6282192	Residential	10 Charles Street North Richmond	60	55	P	54	48	55	48	6.5	6.1	-	-	-	-	-	-	-	-
NCA03.RES.0047	NCA03	2	288142	6282192	Residential	10 Charles Street North Richmond	60	55	P	54	48	55	48	6.2	5.6	-	-	-	-	-	-	-	-
NCA03.RES.0048	NCA03	1	288155	6282233	Residential	16 Charles Street North Richmond	60	55	P	52	46	53	47	12.3	11.8	-	-	-	-	-	-	-	-
NCA03.RES.0049	NCA03	1	288173	6282238	Residential	16 Charles Street North Richmond	60	55	P	52	46	53	47	16.9	16.3	-	-	-	-	-	-	-	-
NCA03.RES.0050	NCA03	1	288147	6282226	Residential	16 Charles Street North Richmond	60	55	P	53	47	53	48	10.3	9.8	-	-	-	-	-	-	-	-
NCA03.RES.0052	NCA03	1	288294	6282061	Residential	6 Grose Vale Road North Richmond	60	55	P	54	48	54	48	0.3	0.2	-	-	-	-	-	-	-	-
NCA03.RES.0053	NCA03	1	288276	6282048	Residential	8-10 Grose Vale Road North Richmond	60	55	P	54	48	54	49	0.2	0.1	-	-	-	-	-	-	-	-
NCA03.RES.0054	NCA03	1	288260	6282033	Residential	8-10 Grose Vale Road North Richmond	60	55	P	53	47	54	48	0.2	0.1	-	-	-	-	-	-	-	-
NCA03.RES.0056	NCA03	1	288003	6282396	Residential	7/44-46 William St North Richmond	60	55	P	52	46	53	47	1.2	1.1	-	-	-	-	-	-	-	-
NCA03.RES.0057	NCA03	1	287967	6282408	Residential	1/48 William St North Richmond	60	55	P	52	46	53	47	3.7	3.6	-	-	-	-	-	-	-	-
NCA03.RES.0057	NCA03	2	287973	6282408	Residential	1/48 William St North Richmond	60	55	P	52	46	53	47	1.2	1.1	-	-	-	-	-	-	-	-
NCA03.RES.0058	NCA03	1	287837	6282545	Residential	2/70 William St North Richmond	60	55	P	52	46	53	47	6.6	6.5	-	-	-	-	-	-	-	-
NCA03.RES.0059	NCA03	1	288217	6282051	Residential	2 William Street North Richmond	60	55	P	51	45	53	47	0.4	0.3	-	-	-	-	-	-	-	-
NCA03.RES.0060	NCA03	1	288215	6282091	Residential	4 William Street North Richmond	60	55	P	51	45	52	46	3	2.6	-	-	-	-	-	-	-	-
NCA03.RES.0061	NCA03	1	288175	6282081	Residential	4 William Street North Richmond	60	55	P	51	45	52	46	1.1	0.9	-	-	-	-	-	-	-	-
NCA03.RES.0062	NCA03	1	288194	6282069	Residential	4 William Street North Richmond	60	55	P	51	45	53	47	0.9	0.8	-	-	-	-	-	-	-	-
NCA03.RES.0063	NCA03	1	288175	6282169	Residential	10 William Street North Richmond	60	55	P	51	44	53	46	9	8.5	-	-	-	-	-	-	-	-
NCA03.RES.0064	NCA03	1	288172	6282158	Residential	10 William Street North Richmond	60	55	P	51	45	53	47	4.3	3.9	-	-	-	-	-	-	-	-
NCA03.RES.0065	NCA03	1	288184	6282140	Residential	10 William Street North Richmond	60	55	P	51	45	53	47	2.9	2.6	-	-	-	-	-	-	-	-
NCA03.RES.0066	NCA03	1	288156	6282161	Residential	14 William Street North Richmond	60	55	P	51	45	53	47	7	6.5	-	-	-	-	-	-	-	-
NCA03.RES.0067	NCA03	1	288132	6282169	Residential	16 William Street North Richmond	60	55	P	50	44	53	47	6	5.6	-	-	-	-	-	-	-	-
NCA03.RES.0068	NCA03	1	288090	6282241	Residential	24 William Street North Richmond	60	55	P	53	47	56	50	5.9	5.5	-	-	-	-	-	-	-	-
NCA03.RES.0069	NCA03	1	288072	6282257	Residential	24 William Street North Richmond	60	55	P	50	44	53	47	5.6	5.2	-	-	-	-	-	-	-	-
NCA03.RES.0070	NCA03	1	288095	6282270	Residential	26 William Street North Richmond	60	55	P	50	44	53	47	8.2	7.7	-	-	-	-	-	-	-	-
NCA03.RES.0071	NCA03	1	288064	6282273	Residential	26 William Street North Richmond	60	55	P	49	43	53	47	5.2	4.8	-	-	-	-	-	-	-	-
NCA03.RES.0072	NCA03	1	288056	6282289	Residential	26 William Street North Richmond	60	55	P	49	43	53	47	5.4	5.1	-	-	-	-	-	-	-	-
NCA03.RES.0073	NCA03	1	288076	6282291	Residential	26 William Street North Richmond	60	55	P	49	43	53	47	5.6	5.3	-	-	-	-	-	-	-	-
NCA03.RES.0074	NCA03	1	288053	6282267	Residential	28 William Street North Richmond	60	55	P	49	43	54	47	5.4	5	-	-	-	-	-	-	-	-
NCA03.RES.0075	NCA03	1	288043	6282257	Residential	30 William Street North Richmond	60	55	P	49	43	54	48	4.5	4.3	-	-	-	-	-	-	-	-
NCA03.RES.0076	NCA03	1	288034	6282292	Residential	32 William Street North Richmond	60	55	P	49	43	54	47	4.4	4.1	-	-	-	-	-	-	-	-
NCA03.RES.0077	NCA03	1	288021	6282299	Residential	34 William Street North Richmond	60	55	P	49	43	54	48	4.2	3.9	-	-	-	-	-	-	-	-
NCA03.RES.0078	NCA03	1	288027	6282316	Residential	36 William Street North Richmond	60	55	P	49	43	53	47	4.2	4	-	-	-	-	-	-	-	-
NCA03.RES.0079	NCA03	1	288044	6282342	Residential	36 William Street North Richmond	60	55	P	48	42	53	47	4.5	4.4	-	-	-	-	-	-	-	-
NCA03.RES.0079	NCA03	2	288030	6282358	Residential	36 William Street North Richmond	60	55	P	49	43	53	46	2.8	2.7	-	-	-	-	-	-	-	-
NCA03.RES.0080	NCA03	1	288043	6282307	Residential	36 William Street North Richmond	60	55	P	49	43	53	47	4.8	4.5	-	-	-	-	-	-	-	-
NCA03.RES.0081	NCA03	1	288051	6282335	Residential	36 William Street North Richmond	60	55	P	48	42	53	47	4.5	4.3	-	-	-	-	-	-	-	-
NCA03.RES.0081	NCA03	2	288051	6282335	Residential	36 William Street North Richmond	60	55	P	48	42	51	45	4.2	4	-	-	-	-	-	-	-	-
NCA03.RES.0082	NCA03	1	288013	6282336	Residential	38 William Street North Richmond	60	55	P	51	45	52	46	2.2	2.1	-	-	-	-	-	-	-	-
NCA03.RES.0083	NCA03	1	287990	6282336	Residential	40 William Street North Richmond	60	55	P	46	44	49	46	2.8	2.6	-	-	-	-	-	-	-	-
NCA03.RES.0084	NCA03	1	287983	6282350	Residential	42 William Street North Richmond	60	55	P	48	45	49	46	2.7	2.6	-	-	-	-	-	-	-	-
NCA03.RES.0085	NCA03	1	287959	6282356	Residential	42 William Street North Richmond	60	55	P	47	45	48	46	1.8	1.7	-	-	-	-	-	-	-	-
NCA03.RES.0086	NCA03	1	287996	6282381	Residential	44 William Street North Richmond	60	55	P	48	45	51	49	1.9	1.8	-	-	-	-	-	-	-	-
NCA03.RES.0087	NCA03	1	287977	6282395	Residential	44 William Street North Richmond	60	55	P	48	45	50	47	0.7	0.6	-	-	-	-	-	-	-	-
NCA03.RES.0088	NCA03	1	287962	6282395	Residential	48 William Street North Richmond	60	55	P	47	44	50	48	2.1	2	-	-	-	-	-	-	-	-
NCA03.RES.0089	NCA03	1	287941	6282379	Residential	48 William Street North Richmond	60	55	P	46	43	49	46	1.2	1.2	-	-	-	-	-	-	-	-
NCA03.RES.0090	NCA03	1	287955	6282363	Residential	48 William Street North Richmond	60	55	P	49	46	52	49	2.5	2.3	-	-	-	-	-	-	-	-
NCA03.RES.0091	NCA03	1	287950	6282405	Residential	50 William Street North Richmond	60	55	P	43	38	47	41	1.5	1.4	-	-	-	-	-	-	-	-
NCA03.RES.0092	NCA03	1	287938	6282416	Residential	6/52 William Street North Richmond	60	55	P	53	47	57	51	1.6	1.5	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA03.RES.0093	NCA03	1	287923	6282458	Residential	52 William Street North Richmond	60	55	P	47	42	53	47	1.3	1.2	-	-	-	-	-	-	-	-
NCA03.RES.0094	NCA03	1	287900	6282444	Residential	12/52 William Street North Richmond	60	55	P	49	44	55	49	2	1.9	-	-	-	-	-	-	-	-
NCA03.RES.0095	NCA03	1	287938	6282444	Residential	52 William Street North Richmond	60	55	P	52	46	60	54	1.1	1	-	-	-	-	-	-	-	-
NCA03.RES.0096	NCA03	1	287916	6282404	Residential	52 William Street North Richmond	60	55	P	45	39	49	43	1.6	1.5	-	-	-	-	-	-	-	-
NCA03.RES.0097	NCA03	1	287899	6282421	Residential	52 William Street North Richmond	60	55	P	47	41	52	46	1.1	1	-	-	-	-	-	-	-	-
NCA03.RES.0098	NCA03	1	287892	6282458	Residential	58 William Street North Richmond	60	55	P	46	40	49	43	1.1	1	-	-	-	-	-	-	-	-
NCA03.RES.0099	NCA03	1	287860	6282460	Residential	60 William Street North Richmond	60	55	P	45	39	49	43	1.6	1.5	-	-	-	-	-	-	-	-
NCA03.RES.0099	NCA03	2	287860	6282460	Residential	60 William Street North Richmond	60	55	P	45	39	50	44	2.6	2.5	-	-	-	-	-	-	-	-
NCA03.RES.0100	NCA03	1	287867	6282459	Residential	60 William Street North Richmond	60	55	P	45	39	50	44	2	2	-	-	-	-	-	-	-	-
NCA03.RES.0101	NCA03	1	287865	6282477	Residential	62 William Street North Richmond	60	55	P	45	40	49	44	2.4	2.2	-	-	-	-	-	-	-	-
NCA03.RES.0102	NCA03	1	287844	6282493	Residential	64 William Street North Richmond	60	55	P	45	40	49	43	3.2	3	-	-	-	-	-	-	-	-
NCA03.RES.0103	NCA03	1	287894	6282505	Residential	8/66 William Street North Richmond	60	55	P	45	39	48	43	1.6	1.6	-	-	-	-	-	-	-	-
NCA03.RES.0103	NCA03	2	287894	6282505	Residential	8/66 William Street North Richmond	60	55	P	44	38	49	43	1.6	1.5	-	-	-	-	-	-	-	-
NCA03.RES.0104	NCA03	1	287878	6282538	Residential	4/66 William Street North Richmond	60	55	P	45	39	50	44	3.4	3.3	-	-	-	-	-	-	-	-
NCA03.RES.0104	NCA03	2	287878	6282538	Residential	4/66 William Street North Richmond	60	55	P	45	39	50	44	3.4	3.2	-	-	Y	-	-	-	Y	-
NCA03.RES.0105	NCA03	1	287886	6282525	Residential	6/66 William Street North Richmond	60	55	P	46	40	50	44	2.6	2.5	-	-	-	-	-	-	-	-
NCA03.RES.0105	NCA03	2	287886	6282525	Residential	6/66 William Street North Richmond	60	55	P	45	39	49	43	2.6	2.5	-	-	Y	-	-	-	Y	-
NCA03.RES.0106	NCA03	1	287862	6282546	Residential	66 William Street North Richmond	60	55	P	48	42	53	47	4.7	4.5	-	-	-	-	-	-	-	-
NCA03.RES.0106	NCA03	2	287862	6282546	Residential	66 William Street North Richmond	60	55	P	49	43	54	48	4.5	4.4	-	-	-	-	-	-	-	-
NCA03.RES.0107	NCA03	1	287901	6282490	Residential	11/66 William Street North Richmond	60	55	P	50	44	55	49	1.6	1.5	-	-	-	-	-	-	-	-
NCA03.RES.0108	NCA03	1	287829	6282521	Residential	68 William Street North Richmond	60	55	P	54	48	57	51	8.2	8	-	-	-	-	-	-	-	-
NCA03.RES.0108	NCA03	2	287829	6282521	Residential	68 William Street North Richmond	60	55	P	48	42	54	48	6.5	6.3	-	-	-	-	-	-	-	-
NCA03.RES.0109	NCA03	1	287839	6282531	Residential	68 William Street North Richmond	60	55	P	49	43	55	49	9.3	8.9	-	-	-	-	-	-	-	-
NCA03.RES.0109	NCA03	2	287835	6282530	Residential	68 William Street North Richmond	60	55	P	50	44	56	50	7.8	7.6	-	-	-	-	-	-	-	-
NCA03.RES.0110	NCA03	1	287811	6282536	Residential	70 William Street North Richmond	60	55	P	64	58	65	58	10	9.8	-	-	-	-	-	-	-	-
NCA03.RES.0110	NCA03	2	287829	6282539	Residential	70 William Street North Richmond	60	55	P	63	57	64	58	7.8	7.5	-	-	-	-	-	-	-	-
NCA04.OCC.0091	NCA04	1	288020	6281940	Other (Childcare)	7 Elizabeth Street North Richmond	45	-	H	64	58	65	58	2.3	2.2	-	-	Y	-	-	-	Y	-
NCA04.OCC.0091	NCA04	2	288041	6281916	Other (Childcare)	7 Elizabeth Street North Richmond	45	-	H	63	57	64	58	0.5	0.4	-	-	-	-	-	-	-	-
NCA04.OCC.0131	NCA04	1	287922	6282178	Other (Childcare)	22 Elizabeth Street North Richmond	45	-	H	64	58	65	58	2.3	2.2	-	-	Y	-	-	-	Y	-
NCA04.OED.0160	NCA04	1	288109	6281970	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	64	58	65	58	0.6	0.5	-	-	-	-	-	-	-	-
NCA04.OED.0161	NCA04	1	288162	6282008	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	64	58	65	58	2.4	2.1	-	-	-	-	-	-	-	-
NCA04.OED.0162	NCA04	1	288148	6282029	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	64	58	65	58	2.8	2.5	-	-	-	-	-	-	-	-
NCA04.OED.0163	NCA04	1	288102	6282000	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	64	58	64	58	2.3	2.1	-	-	-	-	-	-	-	-
NCA04.OED.0164	NCA04	1	288182	6281972	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	64	58	64	58	0.1	0	-	-	-	-	-	-	-	-
NCA04.OED.0164	NCA04	2	288170	6281994	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	63	57	64	58	2.2	2.1	-	-	Y	-	-	-	Y	-
NCA04.OED.0165	NCA04	1	288143	6281937	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	63	57	64	58	0.1	0	-	-	-	-	-	-	-	-
NCA04.OED.0166	NCA04	1	288204	6282002	Other (Educational)	14 Grose Vale Rd North Richmond	50	-	H	63	57	64	58	0.1	0	-	-	-	-	-	-	-	-
NCA04.OPB.0132	NCA04	1	287990	6282249	Other (Public Building)	22 Elizabeth Street North Richmond	50	-	P	65	59	66	59	3.5	3.4	-	-	-	-	-	-	-	-
NCA04.OPB.0133	NCA04	1	287983	6282214	Other (Public Building)	22 Elizabeth Street North Richmond	50	-	P	66	60	67	61	3.7	3.5	-	-	-	-	-	-	-	-
NCA04.OPB.0134	NCA04	1	287899	6282219	Other (Public Building)	22 Elizabeth Street North Richmond	50	-	P	64	58	65	58	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.OPW.0100	NCA04	1	287925	6282105	Other (Place of Worship)	27 Elizabeth Street North Richmond	50	50	H	64	58	65	58	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0001	NCA04	1	287447	6282116	Residential	1 Bradley Road North Richmond	58	52	P	64	58	65	59	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0002	NCA04	1	287475	6282141	Residential	3 Bradley Road North Richmond	58	52	P	64	58	65	59	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0002	NCA04	2	287471	6282152	Residential	3 Bradley Road North Richmond	60	54	P	59	53	62	55	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0003	NCA04	1	287489	6282160	Residential	5 Bradley Road North Richmond	59	52	P	64	58	65	59	1.6	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0004	NCA04	1	287544	6282206	Residential	9 Bradley Road North Richmond	58	52	P	64	58	65	59	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0005	NCA04	1	287569	6282227	Residential	11 Bradley Road North Richmond	59	53	P	64	58	65	59	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0005	NCA04	2	287569	6282227	Residential	11 Bradley Road North Richmond	60	55	P	64	58	67	60	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0006	NCA04	1	287589	6282243	Residential	13 Bradley Road North Richmond	60	53	P	65	59	68	62	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0007	NCA04	1	287603	6282253	Residential	15 Bradley Road North Richmond	60	55	P	49	43	50	44	2.1	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0008	NCA04	1	287608	6282281	Residential	17 Bradley Road North Richmond	60	55	P	48	42	50	44	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0009	NCA04	1	287605	6282313	Residential	19 Bradley Road North Richmond	59	53	P	47	41	49	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0010	NCA04	1	287606	6282337	Residential	21B Bradley Road North Richmond	58	52	P	47	41	48	42	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0011	NCA04	1	287628	6282323	Residential	21A Bradley Road North Richmond	60	55	P	46	40	48	42	3	2.9	-	-	-	-	-	-	-	-
NCA04.RES.0012	NCA04	1	287628	6282333	Residential	21C Bradley Road North Richmond	57	51	P	46	40	48	42	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0012	NCA04	2	287630	6282344	Residential	21C Bradley Road North Richmond	60	55	P	47	41	48	42	2.9	2.7	-	-	-	-	-	-	-	-
NCA04.RES.0013	NCA04	1	287656	6282313	Residential	23 Bradley Road North Richmond	60	55	P	46	40	48	42	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0014	NCA04	1	287657	6282292	Residential	25 Bradley Road North Richmond	60	54	P	45	39	48	42	2.7	2.5	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA04.RES.0015	NCA04	1	287705	6282246	Residential	27A Bradley Road North Richmond	60	54	P	46	40	48	42	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0016	NCA04	1	287692	6282267	Residential	27A Bradley Road North Richmond	60	54	P	46	40	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0017	NCA04	1	287681	6282248	Residential	29A Bradley Road North Richmond	60	54	P	45	39	51	46	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0018	NCA04	1	287649	6282266	Residential	29 Bradley Road North Richmond	60	53	P	46	40	53	47	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0019	NCA04	1	287656	6282234	Residential	31 Bradley Road North Richmond	60	54	P	46	40	53	47	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0020	NCA04	1	287483	6282082	Residential	2 Bradley Road North Richmond	58	52	P	46	40	52	47	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0021	NCA04	1	287479	6282100	Residential	4 Bradley Road North Richmond	58	52	P	46	40	52	46	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0022	NCA04	1	287499	6282117	Residential	6 Bradley Road North Richmond	59	53	P	46	40	52	46	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0023	NCA04	1	287508	6282125	Residential	8 Bradley Road North Richmond	58	52	P	46	40	52	46	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0024	NCA04	1	287524	6282134	Residential	10 Bradley Road North Richmond	58	52	P	47	41	52	47	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0025	NCA04	1	287543	6282148	Residential	12 Bradley Road North Richmond	59	53	P	47	41	52	47	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0026	NCA04	1	287552	6282159	Residential	14 Bradley Road North Richmond	58	52	P	47	41	52	46	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0027	NCA04	1	287565	6282168	Residential	16 Bradley Road North Richmond	58	52	P	47	41	53	47	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0027	NCA04	2	287581	6282166	Residential	16 Bradley Road North Richmond	60	55	P	46	40	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0028	NCA04	1	287585	6282182	Residential	18 Bradley Road North Richmond	59	53	P	44	39	51	45	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0029	NCA04	1	287607	6282183	Residential	20 Bradley Road North Richmond	60	53	P	46	40	53	47	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0030	NCA04	1	287609	6282207	Residential	22 Bradley Road North Richmond	60	54	P	47	41	53	47	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0031	NCA04	1	287639	6282215	Residential	24 Bradley Road North Richmond	60	54	P	47	41	53	48	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0032	NCA04	1	287683	6282230	Residential	26 Bradley Road North Richmond	60	55	P	47	41	53	47	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0033	NCA04	1	287523	6282072	Residential	1 Campbell Street North Richmond	56	50	P	47	41	53	47	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0034	NCA04	1	287519	6282088	Residential	1 Campbell Street North Richmond	57	51	P	47	42	53	47	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0035	NCA04	1	287520	6282076	Residential	1 Campbell Street North Richmond	56	50	P	46	41	53	47	1.2	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0036	NCA04	1	287538	6282063	Residential	1 Campbell Street North Richmond	58	52	P	46	40	52	46	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0037	NCA04	1	287523	6282049	Residential	1A Campbell Street North Richmond	58	53	P	47	41	52	46	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0038	NCA04	1	287554	6282074	Residential	3 Campbell Street North Richmond	58	52	P	46	40	52	46	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0039	NCA04	1	287564	6282106	Residential	5 Campbell Street North Richmond	58	52	P	46	40	52	46	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0040	NCA04	1	287574	6282086	Residential	5 Campbell Street North Richmond	58	53	P	46	40	52	47	1.3	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0041	NCA04	1	287588	6282100	Residential	7 Campbell Street North Richmond	58	53	P	47	41	53	47	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0042	NCA04	1	287601	6282110	Residential	9 Campbell Street North Richmond	59	53	P	50	44	58	52	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0043	NCA04	1	287616	6282126	Residential	11 Campbell Street North Richmond	59	53	P	47	41	53	47	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0044	NCA04	1	287624	6282132	Residential	13 Campbell Street North Richmond	59	53	P	47	41	52	46	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0045	NCA04	1	287641	6282146	Residential	15 Campbell Street North Richmond	59	53	P	48	42	53	47	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0046	NCA04	1	287648	6282154	Residential	17 Campbell Street North Richmond	59	53	P	46	40	51	46	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0047	NCA04	1	287664	6282174	Residential	19 Campbell Street North Richmond	60	54	P	47	41	52	46	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0048	NCA04	1	287734	6282217	Residential	27 Campbell Street North Richmond	60	54	P	46	41	52	46	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0049	NCA04	1	287744	6282250	Residential	27 Campbell Street North Richmond	60	55	P	45	39	51	45	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0050	NCA04	1	287717	6282237	Residential	27 Campbell Street North Richmond	60	54	P	47	41	54	48	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0051	NCA04	1	287753	6282221	Residential	29 Campbell Street North Richmond	60	54	P	45	39	51	45	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0052	NCA04	1	287774	6282240	Residential	31 Campbell Street North Richmond	60	54	P	46	40	51	46	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0053	NCA04	1	287840	6282288	Residential	37 Campbell Street North Richmond	60	54	P	46	40	52	46	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0054	NCA04	1	287854	6282316	Residential	37A Campbell Street North Richmond	60	55	P	46	40	52	46	2.5	2.4	-	-	-	-	-	-	-	-
NCA04.RES.0055	NCA04	1	287877	6282336	Residential	2/39 Campbell Street North Richmond	60	55	P	46	40	51	46	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0056	NCA04	1	287560	6281995	Residential	2 Campbell Street North Richmond	58	52	P	45	39	51	46	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0057	NCA04	1	287564	6282039	Residential	4 Campbell Street North Richmond	58	52	P	45	40	51	45	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0058	NCA04	1	287589	6282026	Residential	6 Campbell Street North Richmond	58	53	P	44	39	51	45	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0059	NCA04	1	287598	6282065	Residential	8 Campbell Street North Richmond	60	53	P	46	40	53	47	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0060	NCA04	1	287615	6282059	Residential	10 Campbell Street North Richmond	59	53	P	45	39	51	45	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0061	NCA04	1	287623	6282088	Residential	12 Campbell Street North Richmond	59	53	P	45	39	51	45	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0062	NCA04	1	287639	6282103	Residential	14 Campbell Street North Richmond	59	53	P	45	39	51	45	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0063	NCA04	1	287657	6282115	Residential	16 Campbell Street North Richmond	59	53	P	45	39	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0064	NCA04	1	287672	6282131	Residential	18 Campbell Street North Richmond	59	53	P	45	39	51	45	1.9	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0065	NCA04	1	287689	6282144	Residential	20 Campbell Street North Richmond	59	53	P	45	39	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0066	NCA04	1	287714	6282161	Residential	22 Campbell Street North Richmond	60	54	P	45	39	51	45	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0067	NCA04	1	287718	6282134	Residential	22 Campbell Street North Richmond	59	53	P	47	41	52	46	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0068	NCA04	1	287731	6282144	Residential	24 Campbell Street North Richmond	59	53	P	46	40	51	45	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0069	NCA04	1	287724	6282176	Residential	24 Campbell Street North Richmond	59	53	P	46	40	51	45	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0070	NCA04	1	287754	6282179	Residential	26 Campbell Street North Richmond	60	54	P	46	40	51	45	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0070	NCA04	2	287754	6282179	Residential	26 Campbell Street North Richmond	60	55	P	45	40	51	45	2	1.9	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA04.RES.0071	NCA04	1	287779	6282190	Residential	28 Campbell Street North Richmond	60	54	P	46	40	51	46	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0072	NCA04	1	287807	6282208	Residential	30 Campbell Street North Richmond	60	54	P	46	40	51	45	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0073	NCA04	1	287843	6282204	Residential	32 Campbell Street North Richmond	60	55	P	45	39	51	45	2.1	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0074	NCA04	1	287833	6282214	Residential	32 Campbell Street North Richmond	60	55	P	44	39	50	45	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0075	NCA04	1	287823	6282223	Residential	32 Campbell Street North Richmond	60	55	P	46	40	50	45	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0076	NCA04	1	287917	6282053	Residential	1 Charles Street North Richmond	60	55	P	45	39	51	45	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0077	NCA04	1	287920	6282075	Residential	3 Charles Street North Richmond	60	54	P	45	39	51	45	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0078	NCA04	1	287948	6282076	Residential	3 Charles Street North Richmond	60	55	P	45	39	51	45	2	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0079	NCA04	1	287958	6281999	Residential	1/2 Charles Street North Richmond	60	55	P	45	39	51	45	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0080	NCA04	1	287984	6281970	Residential	1/2 Charles Street North Richmond	60	55	P	45	39	50	44	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0081	NCA04	1	287943	6282017	Residential	2B Charles Street North Richmond	60	55	P	44	39	50	44	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0082	NCA04	1	287971	6281985	Residential	1/2 Charles Street North Richmond	60	55	P	45	39	50	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0083	NCA04	1	287931	6282007	Residential	2B Charles Street North Richmond	60	55	P	45	39	51	45	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0084	NCA04	1	287948	6282047	Residential	4 Charles Street North Richmond	60	54	P	44	38	50	44	2.6	2.5	-	-	-	-	-	-	-	-
NCA04.RES.0085	NCA04	1	287961	6282024	Residential	4 Charles Street North Richmond	60	54	P	44	39	50	45	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0086	NCA04	1	287712	6282474	Residential	64 Elizabeth St North Richmond	60	55	P	44	39	50	45	4.5	4.3	-	-	-	-	-	-	-	-
NCA04.RES.0087	NCA04	1	288098	6281914	Residential	3 Elizabeth Street North Richmond	60	55	P	44	38	48	42	0.2	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0088	NCA04	1	288061	6281889	Residential	5A Elizabeth Street North Richmond	60	55	P	46	41	50	44	0.2	0.1	-	-	-	-	-	-	-	-
NCA04.RES.0089	NCA04	1	288083	6281928	Residential	5 Elizabeth Street North Richmond	60	55	P	45	39	48	43	0.5	0.4	-	-	-	-	-	-	-	-
NCA04.RES.0090	NCA04	1	288032	6281894	Residential	5A Elizabeth Street North Richmond	60	55	P	44	39	48	43	0.3	0.3	-	-	-	-	-	-	-	-
NCA04.RES.0092	NCA04	1	287999	6281951	Residential	9 Elizabeth Street North Richmond	60	55	P	44	39	48	43	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0093	NCA04	1	288043	6281971	Residential	9 Elizabeth Street North Richmond	60	55	P	44	39	48	43	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0094	NCA04	1	288023	6281997	Residential	13 Elizabeth Street North Richmond	60	55	P	45	39	49	43	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0095	NCA04	1	288006	6282013	Residential	15 Elizabeth Street North Richmond	60	55	P	45	39	47	42	1.7	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0096	NCA04	1	287998	6282023	Residential	17 Elizabeth Street North Richmond	60	55	P	45	39	48	42	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0097	NCA04	1	287989	6282033	Residential	19 Elizabeth Street North Richmond	60	55	P	43	38	47	42	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0098	NCA04	1	287979	6282044	Residential	21 Elizabeth Street North Richmond	60	55	P	44	39	48	42	2	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0099	NCA04	1	287968	6282057	Residential	23 Elizabeth Street North Richmond	60	55	P	44	39	48	42	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0101	NCA04	1	287940	6282089	Residential	27 Elizabeth Street North Richmond	60	55	P	44	39	48	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0102	NCA04	1	287881	6282154	Residential	1/35 Elizabeth Street North Richmond	60	54	P	50	44	51	45	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0103	NCA04	1	287841	6282164	Residential	10/35 Elizabeth Street North Richmond	58	52	P	51	44	51	45	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0104	NCA04	1	287853	6282117	Residential	5/35 Elizabeth Street North Richmond	59	53	P	50	44	51	45	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0105	NCA04	1	287850	6282193	Residential	11/35 Elizabeth Street North Richmond	60	55	P	51	45	52	45	1.9	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0106	NCA04	1	287861	6282174	Residential	11/35 Elizabeth Street North Richmond	60	54	P	56	50	57	50	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0107	NCA04	1	287862	6282129	Residential	3/35 Elizabeth Street North Richmond	58	53	P	53	47	54	48	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0108	NCA04	1	287828	6282130	Residential	6/35 Elizabeth Street North Richmond	57	51	P	52	46	53	46	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0109	NCA04	1	287837	6282160	Residential	8/35 Elizabeth Street North Richmond	58	51	P	51	45	52	46	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0110	NCA04	1	287805	6282157	Residential	6/35 Elizabeth Street North Richmond	59	53	P	54	48	55	49	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0111	NCA04	1	287836	6282180	Residential	39 Elizabeth Street North Richmond	60	53	P	55	49	56	50	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0112	NCA04	1	287808	6282166	Residential	39 Elizabeth Street North Richmond	60	54	P	51	45	52	46	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0113	NCA04	1	287774	6282276	Residential	43A Elizabeth Street North Richmond	60	55	P	53	47	54	47	1.9	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0114	NCA04	1	287787	6282260	Residential	43 Elizabeth Street North Richmond	60	55	P	51	45	52	46	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0115	NCA04	1	287752	6282297	Residential	45 Elizabeth Street North Richmond	60	55	P	51	45	52	46	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0116	NCA04	1	287739	6282311	Residential	47 Elizabeth Street North Richmond	60	55	P	45	40	47	42	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0117	NCA04	1	287729	6282321	Residential	49 Elizabeth Street North Richmond	60	55	P	44	39	47	41	2.4	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0118	NCA04	1	287710	6282299	Residential	49A Elizabeth Street North Richmond	60	55	P	44	39	47	42	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0119	NCA04	1	287670	6282309	Residential	51A Elizabeth Street North Richmond	60	54	P	46	41	49	43	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0120	NCA04	1	287721	6282331	Residential	51 Elizabeth Street North Richmond	60	55	P	44	39	47	42	2.5	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0121	NCA04	1	287699	6282348	Residential	53 Elizabeth Street North Richmond	60	55	P	44	39	47	42	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0122	NCA04	1	287690	6282367	Residential	55 Elizabeth Street North Richmond	60	55	P	44	39	47	41	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0123	NCA04	1	287652	6282399	Residential	59 Elizabeth Street North Richmond	60	55	P	44	39	47	41	2.9	2.7	-	-	-	-	-	-	-	-
NCA04.RES.0124	NCA04	1	287636	6282373	Residential	59A Elizabeth Street North Richmond	60	55	P	44	38	47	42	2.6	2.5	-	-	-	-	-	-	-	-
NCA04.RES.0124	NCA04	2	287636	6282373	Residential	59A Elizabeth Street North Richmond	60	55	P	44	39	46	41	2.5	2.4	-	-	-	-	-	-	-	-
NCA04.RES.0125	NCA04	1	287675	6282385	Residential	59 Elizabeth Street North Richmond	60	55	P	44	39	47	41	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0126	NCA04	1	287649	6282414	Residential	61 Elizabeth Street North Richmond	60	55	P	44	39	47	42	3.3	3.1	-	-	-	-	-	-	-	-
NCA04.RES.0127	NCA04	1	287643	6282420	Residential	63 Elizabeth Street North Richmond	60	55	P	43	38	46	41	3	2.9	-	-	-	-	-	-	-	-
NCA04.RES.0128	NCA04	1	287619	6282447	Residential	65 Elizabeth Street North Richmond	60	55	P	44	39	48	42	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0129	NCA04	1	287606	6282464	Residential	67 Elizabeth Street North Richmond	60	55	P	44	39	47	42	2.8	2.7	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA04.RES.0130	NCA04	1	287973	6282096	Residential	14 Elizabeth Street North Richmond	60	55	P	44	39	48	42	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0135	NCA04	1	287823	6282286	Residential	44 Elizabeth Street North Richmond	60	54	P	45	40	46	41	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0136	NCA04	1	287807	6282330	Residential	46C Elizabeth Street North Richmond	60	55	P	44	39	46	41	2.5	2.4	-	-	-	-	-	-	-	-
NCA04.RES.0137	NCA04	1	287822	6282312	Residential	46A Elizabeth Street North Richmond	60	54	P	46	40	46	41	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0138	NCA04	1	287818	6282343	Residential	46B Elizabeth Street North Richmond	60	55	P	44	39	46	41	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0139	NCA04	1	287789	6282330	Residential	50 Elizabeth Street North Richmond	60	55	P	44	38	46	41	2	2	-	-	-	-	-	-	-	-
NCA04.RES.0140	NCA04	1	287776	6282345	Residential	52 Elizabeth Street North Richmond	60	55	P	44	39	46	41	2.5	2.4	-	-	-	-	-	-	-	-
NCA04.RES.0141	NCA04	1	287754	6282371	Residential	54 Elizabeth Street North Richmond	60	55	P	44	39	46	41	2.6	2.5	-	-	-	-	-	-	-	-
NCA04.RES.0142	NCA04	1	287779	6282369	Residential	54 Elizabeth Street North Richmond	60	55	P	45	39	47	41	2.8	2.6	-	-	-	-	-	-	-	-
NCA04.RES.0143	NCA04	1	287723	6282398	Residential	56 Elizabeth Street North Richmond	60	55	P	47	41	53	47	3.2	3	-	-	-	-	-	-	-	-
NCA04.RES.0144	NCA04	1	287719	6282410	Residential	58 Elizabeth Street North Richmond	60	55	P	47	41	54	48	3.2	3.1	-	-	-	-	-	-	-	-
NCA04.RES.0145	NCA04	1	287701	6282429	Residential	60 Elizabeth Street North Richmond	60	55	P	49	43	55	49	3.5	3.3	-	-	-	-	-	-	-	-
NCA04.RES.0145	NCA04	2	287701	6282429	Residential	60 Elizabeth Street North Richmond	60	55	P	49	43	55	49	3.4	3.2	-	-	-	-	-	-	-	-
NCA04.RES.0146	NCA04	1	287698	6282448	Residential	62 Elizabeth Street North Richmond	60	55	P	45	39	49	43	4.3	4.1	-	-	-	-	-	-	-	-
NCA04.RES.0147	NCA04	1	287705	6282458	Residential	62 Elizabeth Street North Richmond	60	55	P	45	39	49	43	4.2	4.1	-	-	-	-	-	-	-	-
NCA04.RES.0148	NCA04	1	287686	6282462	Residential	64 Elizabeth Street North Richmond	60	55	P	46	40	50	44	3.7	3.6	-	-	-	-	-	-	-	-
NCA04.RES.0149	NCA04	1	287661	6282471	Residential	66 Elizabeth Street North Richmond	60	55	P	47	41	50	44	3.5	3.4	-	-	-	-	-	-	-	-
NCA04.RES.0149	NCA04	2	287661	6282471	Residential	66 Elizabeth Street North Richmond	60	55	P	47	41	49	43	3.6	3.6	-	-	-	-	-	-	-	-
NCA04.RES.0150	NCA04	1	287650	6282497	Residential	68 Elizabeth Street North Richmond	60	55	P	47	41	50	44	4	3.8	-	-	-	-	-	-	-	-
NCA04.RES.0151	NCA04	1	287677	6281939	Residential	1 Glenn Place North Richmond	60	54	P	47	41	50	44	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0152	NCA04	1	287640	6281975	Residential	3A Glenn Place North Richmond	58	52	P	48	42	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0153	NCA04	1	287650	6281968	Residential	3 Glenn Place North Richmond	60	54	P	49	43	50	44	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0154	NCA04	1	287632	6282021	Residential	5A Glenn Place North Richmond	59	53	P	46	40	49	43	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0155	NCA04	1	287649	6282016	Residential	5 Glenn Place North Richmond	59	53	P	47	41	50	44	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0156	NCA04	1	287690	6281998	Residential	7 Glenn Place North Richmond	60	54	P	51	45	54	48	2	2	-	-	-	-	-	-	-	-
NCA04.RES.0157	NCA04	1	287657	6281958	Residential	2 Glenn Place North Richmond	60	54	P	50	44	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0158	NCA04	1	287613	6281995	Residential	4 Glenn Place North Richmond	58	52	P	50	44	51	45	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0159	NCA04	1	287676	6282038	Residential	6 Glenn Place North Richmond	59	53	P	50	43	52	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0167	NCA04	1	288109	6281891	Residential	18 Grose Vale Road North Richmond	60	55	P	50	43	52	45	0.1	0	-	-	-	-	-	-	-	-
NCA04.RES.0168	NCA04	1	288098	6281883	Residential	20 Grose Vale Road North Richmond	60	55	P	49	43	52	45	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0169	NCA04	1	288082	6281873	Residential	22 Grose Vale Road North Richmond	60	55	P	50	44	52	46	0.1	0	-	-	-	-	-	-	-	-
NCA04.RES.0170	NCA04	1	288062	6281852	Residential	24 Grose Vale Road North Richmond	60	55	P	50	44	53	47	0.1	0	-	-	-	-	-	-	-	-
NCA04.RES.0171	NCA04	1	288039	6281850	Residential	26 Grose Vale Road North Richmond	60	55	P	51	45	53	47	0.1	0	-	-	-	-	-	-	-	-
NCA04.RES.0172	NCA04	1	288041	6281834	Residential	26 Grose Vale Road North Richmond	60	55	P	51	45	53	47	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0173	NCA04	1	288029	6281826	Residential	28 Grose Vale Road North Richmond	60	55	P	50	44	53	47	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0174	NCA04	1	288017	6281814	Residential	30 Grose Vale Road North Richmond	60	55	P	49	43	54	48	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0175	NCA04	1	287991	6281794	Residential	32 Grose Vale Road North Richmond	60	55	P	46	40	49	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0176	NCA04	1	288005	6281801	Residential	32 Grose Vale Road North Richmond	60	55	P	46	40	50	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0177	NCA04	1	287970	6281835	Residential	36 Grose Vale Road North Richmond	60	55	P	46	40	50	44	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0178	NCA04	1	287952	6281814	Residential	36 Grose Vale Road North Richmond	60	55	P	47	41	50	44	0.3	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0179	NCA04	1	287983	6281785	Residential	36 Grose Vale Road North Richmond	60	55	P	46	41	50	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0179	NCA04	2	287983	6281785	Residential	36 Grose Vale Road North Richmond	60	55	P	47	41	50	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0180	NCA04	1	287992	6281834	Residential	36 Grose Vale Road North Richmond	60	55	P	46	41	50	44	0.5	0.5	-	-	-	-	-	-	-	-
NCA04.RES.0181	NCA04	1	287970	6281777	Residential	38 Grose Vale Road North Richmond	60	55	P	47	41	50	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0181	NCA04	2	287970	6281777	Residential	38 Grose Vale Road North Richmond	60	55	P	47	41	50	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0182	NCA04	1	287954	6281762	Residential	40 Grose Vale Road North Richmond	60	55	P	47	41	50	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0183	NCA04	1	287929	6281786	Residential	40 Grose Vale Road North Richmond	60	55	P	47	41	50	44	0.2	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0184	NCA04	1	287944	6281754	Residential	42 Grose Vale Road North Richmond	60	55	P	47	41	51	45	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0184	NCA04	2	287944	6281754	Residential	42 Grose Vale Road North Richmond	60	55	P	47	41	51	45	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0185	NCA04	1	287915	6281773	Residential	44 Grose Vale Road North Richmond	60	55	P	49	43	51	45	0.2	0.1	-	-	-	-	-	-	-	-
NCA04.RES.0186	NCA04	1	287928	6281740	Residential	44 Grose Vale Road North Richmond	60	55	P	50	44	51	45	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0186	NCA04	2	287928	6281740	Residential	44 Grose Vale Road North Richmond	60	55	P	49	43	50	44	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0187	NCA04	1	287895	6281743	Residential	46 Grose Vale Road North Richmond	60	55	P	50	44	52	45	0.1	0.1	-	-	-	-	-	-	-	-
NCA04.RES.0188	NCA04	1	287920	6281732	Residential	46 Grose Vale Road North Richmond	60	55	P	50	44	52	45	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0189	NCA04	1	287899	6281714	Residential	48 Grose Vale Road North Richmond	60	55	P	49	43	51	45	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0190	NCA04	1	287886	6281703	Residential	50 Grose Vale Road North Richmond	60	55	P	50	44	52	46	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0191	NCA04	1	287871	6281689	Residential	52A Grose Vale Road North Richmond	60	55	P	50	44	52	46	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0192	NCA04	1	287862	6281683	Residential	52A Grose Vale Road North Richmond	60	55	P	50	44	52	45	0	0	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA04.RES.0193	NCA04	1	287861	6281715	Residential	52B Grose Vale Road North Richmond	60	55	P	51	45	53	46	0.2	0.1	-	-	-	-	-	-	-	-
NCA04.RES.0194	NCA04	1	287838	6281707	Residential	54 Grose Vale Road North Richmond	60	55	P	51	45	53	47	0.2	0.1	-	-	-	-	-	-	-	-
NCA04.RES.0194	NCA04	2	287838	6281707	Residential	54 Grose Vale Road North Richmond	60	55	P	52	46	54	47	0.2	0.1	-	-	-	-	-	-	-	-
NCA04.RES.0195	NCA04	1	287847	6281697	Residential	54 Grose Vale Road North Richmond	60	55	P	53	47	54	48	0.1	0	-	-	-	-	-	-	-	-
NCA04.RES.0196	NCA04	1	287829	6281691	Residential	54 Grose Vale Road North Richmond	60	55	P	53	47	55	49	0.3	0.3	-	-	-	-	-	-	-	-
NCA04.RES.0197	NCA04	1	287846	6281676	Residential	56 Grose Vale Road North Richmond	60	55	P	53	47	55	48	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0198	NCA04	1	287830	6281655	Residential	58 Grose Vale Road North Richmond	60	55	P	53	47	55	48	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0199	NCA04	1	287817	6281645	Residential	60 Grose Vale Road North Richmond	60	55	P	53	47	55	49	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0200	NCA04	1	287807	6281641	Residential	62 Grose Vale Road North Richmond	60	55	P	45	39	49	43	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0200	NCA04	2	287807	6281641	Residential	62 Grose Vale Road North Richmond	60	55	P	45	39	49	43	0	0	-	-	-	-	-	-	-	-
NCA04.RES.0201	NCA04	1	287787	6281659	Residential	62 Grose Vale Road North Richmond	60	55	P	47	41	51	45	0.1	0	-	-	-	-	-	-	-	-
NCA04.RES.0202	NCA04	1	287735	6281824	Residential	1 Hayman Street North Richmond	60	55	P	45	39	50	44	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0203	NCA04	1	287714	6281851	Residential	1B Hayman Street North Richmond	60	54	P	45	39	50	44	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0204	NCA04	1	287748	6281839	Residential	3 Hayman Street North Richmond	60	55	P	45	39	51	45	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0205	NCA04	1	287754	6281854	Residential	5 Hayman Street North Richmond	60	55	P	45	40	51	45	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0206	NCA04	1	287766	6281868	Residential	7 Hayman Street North Richmond	60	55	P	46	40	51	45	1	1	-	-	-	-	-	-	-	-
NCA04.RES.0207	NCA04	1	287782	6281881	Residential	9 Hayman Street North Richmond	60	55	P	47	41	52	46	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0208	NCA04	1	287794	6281892	Residential	11 Hayman Street North Richmond	60	55	P	47	41	53	47	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0209	NCA04	1	287798	6281896	Residential	11 Hayman Street North Richmond	60	55	P	47	41	53	47	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0210	NCA04	1	287809	6281906	Residential	13 Hayman Street North Richmond	60	55	P	47	41	53	47	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0211	NCA04	1	287825	6281916	Residential	15 Hayman Street North Richmond	60	55	P	48	42	53	47	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0212	NCA04	1	287836	6281942	Residential	17 Hayman Street North Richmond	60	55	P	48	42	54	48	1.6	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0213	NCA04	1	287861	6281948	Residential	19 Hayman Street North Richmond	60	55	P	48	42	54	48	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0214	NCA04	1	287872	6281967	Residential	21 Hayman Street North Richmond	60	55	P	48	42	54	48	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0215	NCA04	1	287803	6281828	Residential	4 Hayman Street North Richmond	60	55	P	48	42	54	48	0.8	0.7	-	-	-	-	-	-	-	-
NCA04.RES.0216	NCA04	1	287811	6281847	Residential	6 Hayman Street North Richmond	60	55	P	50	44	55	49	0.9	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0217	NCA04	1	287832	6281856	Residential	8 Hayman Street North Richmond	60	55	P	50	44	55	49	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0218	NCA04	1	287849	6281872	Residential	10 Hayman Street North Richmond	60	55	P	51	45	56	49	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0219	NCA04	1	287860	6281891	Residential	12 Hayman Street North Richmond	60	55	P	51	45	56	50	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0220	NCA04	1	287831	6281725	Residential	5/10 Ignatius Av North Richmond	60	55	P	52	46	57	51	0.7	0.6	-	-	-	-	-	-	-	-
NCA04.RES.0221	NCA04	1	287812	6281700	Residential	4/10 Ignatius Av North Richmond	60	55	P	54	48	59	53	0.3	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0222	NCA04	1	287827	6281796	Residential	1 Ignatius Avenue North Richmond	60	55	P	57	51	60	54	0.6	0.5	-	-	-	-	-	-	-	-
NCA04.RES.0223	NCA04	1	287842	6281805	Residential	3 Ignatius Avenue North Richmond	60	55	P	64	58	65	58	0.6	0.5	-	-	-	-	-	-	-	-
NCA04.RES.0224	NCA04	1	287859	6281822	Residential	5 Ignatius Avenue North Richmond	60	55	P	47	41	50	44	0.7	0.6	-	-	-	-	-	-	-	-
NCA04.RES.0225	NCA04	1	287872	6281859	Residential	7 Ignatius Avenue North Richmond	60	55	P	47	41	50	44	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0226	NCA04	1	287869	6281832	Residential	7 Ignatius Avenue North Richmond	60	55	P	47	41	50	44	0.7	0.6	-	-	-	-	-	-	-	-
NCA04.RES.0227	NCA04	1	287910	6281849	Residential	9 Ignatius Avenue North Richmond	60	55	P	47	41	50	44	1	1	-	-	-	-	-	-	-	-
NCA04.RES.0228	NCA04	1	287928	6281829	Residential	11 Ignatius Avenue North Richmond	60	55	P	47	41	50	44	0.8	0.7	-	-	-	-	-	-	-	-
NCA04.RES.0229	NCA04	1	287931	6281811	Residential	11 Ignatius Avenue North Richmond	60	55	P	47	41	50	44	0.6	0.5	-	-	-	-	-	-	-	-
NCA04.RES.0230	NCA04	1	287942	6281809	Residential	11 Ignatius Avenue North Richmond	60	55	P	47	41	50	44	0.3	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0231	NCA04	1	287906	6281812	Residential	11 Ignatius Avenue North Richmond	60	55	P	48	42	51	45	0.5	0.4	-	-	-	-	-	-	-	-
NCA04.RES.0232	NCA04	1	287919	6281776	Residential	13 Ignatius Avenue North Richmond	60	55	P	48	42	51	45	0.2	0.1	-	-	-	-	-	-	-	-
NCA04.RES.0233	NCA04	1	287902	6281791	Residential	13 Ignatius Avenue North Richmond	60	55	P	48	42	51	45	0.4	0.3	-	-	-	-	-	-	-	-
NCA04.RES.0234	NCA04	1	287889	6281776	Residential	15 Ignatius Avenue North Richmond	60	55	P	48	42	51	45	0.5	0.4	-	-	-	-	-	-	-	-
NCA04.RES.0235	NCA04	1	287770	6281800	Residential	2 Ignatius Avenue North Richmond	60	55	P	48	42	51	45	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0236	NCA04	1	287781	6281794	Residential	4 Ignatius Avenue North Richmond	60	55	P	47	41	52	46	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0237	NCA04	1	287796	6281777	Residential	6 Ignatius Avenue North Richmond	60	55	P	48	42	54	48	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0238	NCA04	1	287811	6281763	Residential	8 Ignatius Avenue North Richmond	60	55	P	47	41	52	46	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0239	NCA04	1	287792	6281736	Residential	8A Ignatius Avenue North Richmond	60	55	P	47	41	53	47	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0240	NCA04	1	287795	6281732	Residential	8A Ignatius Avenue North Richmond	60	55	P	47	41	53	47	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0241	NCA04	1	287803	6281710	Residential	8A Ignatius Avenue North Richmond	60	55	P	48	42	54	48	0.4	0.3	-	-	-	-	-	-	-	-
NCA04.RES.0242	NCA04	1	287831	6281758	Residential	10 Ignatius Avenue North Richmond	60	55	P	49	43	55	49	0.8	0.7	-	-	-	-	-	-	-	-
NCA04.RES.0243	NCA04	1	287853	6281745	Residential	12 Ignatius Avenue North Richmond	60	55	P	50	44	55	49	0.4	0.4	-	-	-	-	-	-	-	-
NCA04.RES.0244	NCA04	1	287873	6281763	Residential	14 Ignatius Avenue North Richmond	60	55	P	49	43	55	49	0.5	0.4	-	-	-	-	-	-	-	-
NCA04.RES.0245	NCA04	1	287272	6282269	Residential	1 Merrick Place North Richmond	57	51	P	49	43	54	49	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0246	NCA04	1	287295	6282319	Residential	3 Merrick Place North Richmond	58	52	P	49	43	55	49	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0247	NCA04	1	287304	6282372	Residential	5 Merrick Place North Richmond	58	52	P	49	43	55	49	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0248	NCA04	1	287291	6282286	Residential	2 Merrick Place North Richmond	58	52	P	53	47	60	54	1.4	1.3	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA04.RES.0249	NCA04	1	287303	6282338	Residential	4 Merrick Place North Richmond	58	51	P	53	47	56	50	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0250	NCA04	1	287304	6282396	Residential	6 Merrick Place North Richmond	58	52	P	54	48	57	51	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0250	NCA04	2	287304	6282396	Residential	6 Merrick Place North Richmond	60	53	P	55	49	58	52	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0251	NCA04	1	287635	6281916	Residential	3 Mokari Street North Richmond	59	53	P	64	58	64	58	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0252	NCA04	1	287693	6281978	Residential	5 Mokari Street North Richmond	60	54	P	44	39	47	41	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0253	NCA04	1	287706	6281973	Residential	5 Mokari Street North Richmond	60	53	P	44	38	46	40	2	2	-	-	-	-	-	-	-	-
NCA04.RES.0254	NCA04	1	287711	6281994	Residential	7 Mokari Street North Richmond	60	54	P	45	39	48	42	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0255	NCA04	1	287727	6281990	Residential	7 Mokari Street North Richmond	60	54	P	44	39	49	43	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0256	NCA04	1	287759	6281997	Residential	9 Mokari Street North Richmond	60	55	P	44	38	49	43	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0257	NCA04	1	287775	6282021	Residential	11 Mokari Street North Richmond	60	54	P	45	39	49	43	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0258	NCA04	1	287714	6281872	Residential	2 Mokari Street North Richmond	60	54	P	44	38	49	43	1.6	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0259	NCA04	1	287692	6281891	Residential	2 Mokari Street North Richmond	60	54	P	45	39	50	45	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0260	NCA04	1	287713	6281901	Residential	4 Mokari Street North Richmond	60	55	P	45	39	50	44	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0261	NCA04	1	287733	6281918	Residential	6 Mokari Street North Richmond	60	55	P	59	55	58	54	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0262	NCA04	1	287749	6281938	Residential	8 Mokari Street North Richmond	60	54	P	59	55	58	54	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0263	NCA04	1	287767	6281951	Residential	10 Mokari Street North Richmond	60	54	P	59	54	58	54	2.1	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0264	NCA04	1	287791	6281965	Residential	12 Mokari Street North Richmond	60	55	P	59	55	58	54	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0265	NCA04	1	287808	6281981	Residential	14 Mokari Street North Richmond	60	55	P	59	55	58	54	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0266	NCA04	1	287831	6281995	Residential	16 Mokari Street North Richmond	60	55	P	59	55	58	54	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0267	NCA04	1	287847	6282011	Residential	18 Mokari Street North Richmond	60	55	P	59	54	58	54	1.9	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0268	NCA04	1	287900	6281929	Residential	1 Monti Place North Richmond	60	55	P	59	54	58	54	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0269	NCA04	1	287933	6281894	Residential	3 Monti Place North Richmond	60	55	P	59	55	58	54	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0270	NCA04	1	287957	6281853	Residential	5 Monti Place North Richmond	60	55	P	47	43	48	44	0.4	0.3	-	-	-	-	-	-	-	-
NCA04.RES.0271	NCA04	1	288024	6281885	Residential	7A Monti Place North Richmond	60	55	P	59	54	58	54	0.4	0.3	-	-	-	-	-	-	-	-
NCA04.RES.0272	NCA04	1	288004	6281880	Residential	7 Monti Place North Richmond	60	55	P	60	55	59	55	0.6	0.6	-	-	-	-	-	-	-	-
NCA04.RES.0273	NCA04	1	287977	6281934	Residential	9 Monti Place North Richmond	60	55	P	60	55	59	55	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0274	NCA04	1	287941	6281975	Residential	11 Monti Place North Richmond	60	55	P	59	55	59	55	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0275	NCA04	1	287911	6281995	Residential	13 Monti Place North Richmond	60	55	P	59	55	59	55	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0276	NCA04	1	287883	6282050	Residential	15 Monti Place North Richmond	60	55	P	59	55	59	55	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0277	NCA04	1	287861	6282058	Residential	15 Monti Place North Richmond	60	55	P	59	55	59	55	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0278	NCA04	1	287830	6282081	Residential	17 Monti Place North Richmond	60	54	P	60	55	59	55	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0278	NCA04	2	287833	6282075	Residential	17 Monti Place North Richmond	60	55	P	60	55	59	55	2.4	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0279	NCA04	1	287785	6282093	Residential	19 Monti Place North Richmond	60	54	P	60	55	59	55	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0280	NCA04	1	287770	6282090	Residential	19A Monti Place North Richmond	60	54	P	59	55	59	55	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0281	NCA04	1	287719	6282073	Residential	1/21 Monti Place North Richmond	58	52	P	59	55	59	55	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0282	NCA04	1	287697	6282030	Residential	23 Monti Place North Richmond	59	53	P	59	54	59	55	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0283	NCA04	1	287718	6282039	Residential	23A Monti Place North Richmond	60	53	P	59	54	59	55	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0284	NCA04	1	287768	6282036	Residential	25 Monti Place North Richmond	60	54	P	59	55	59	55	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0285	NCA04	1	287913	6281915	Residential	2 Monti Place North Richmond	60	55	P	59	55	59	55	1.3	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0286	NCA04	1	287941	6281881	Residential	4 Monti Place North Richmond	60	55	P	59	55	60	55	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0287	NCA04	1	287994	6281869	Residential	6 Monti Place North Richmond	60	55	P	60	55	59	55	0.7	0.6	-	-	-	-	-	-	-	-
NCA04.RES.0288	NCA04	1	287982	6281904	Residential	8 Monti Place North Richmond	60	55	P	60	55	59	54	0.7	0.6	-	-	-	-	-	-	-	-
NCA04.RES.0289	NCA04	1	288005	6281925	Residential	8B Monti Place North Richmond	60	55	P	56	52	59	54	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0290	NCA04	1	287951	6281952	Residential	10 Monti Place North Richmond	60	55	P	60	55	59	54	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0291	NCA04	1	287929	6281976	Residential	12 Monti Place North Richmond	60	55	P	60	55	60	55	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0292	NCA04	1	287889	6282036	Residential	14 Monti Place North Richmond	60	55	P	61	56	60	55	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0293	NCA04	1	287847	6282068	Residential	16 Monti Place North Richmond	60	54	P	62	56	62	57	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0294	NCA04	1	287798	6282079	Residential	18 Monti Place North Richmond	60	54	P	63	58	64	59	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0295	NCA04	1	287749	6282082	Residential	20A Monti Place North Richmond	59	53	P	46	41	46	42	1.7	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0296	NCA04	1	287740	6282098	Residential	20B Monti Place North Richmond	59	53	P	46	41	47	42	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0297	NCA04	1	287685	6282062	Residential	22C Monti Place North Richmond	59	53	P	45	41	46	42	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0298	NCA04	1	287698	6282061	Residential	22 Monti Place North Richmond	59	53	P	45	40	47	42	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0299	NCA04	1	287712	6282053	Residential	22 Monti Place North Richmond	59	53	P	44	39	47	42	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0300	NCA04	1	287735	6282031	Residential	24 Monti Place North Richmond	60	54	P	45	39	47	42	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0301	NCA04	1	287804	6282033	Residential	26 Monti Place North Richmond	60	55	P	45	39	47	42	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0302	NCA04	1	287475	6282179	Residential	1 Morton Street North Richmond	59	53	P	44	39	47	42	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0303	NCA04	1	287463	6282193	Residential	3 Morton Street North Richmond	59	53	P	46	41	48	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0304	NCA04	1	287454	6282200	Residential	5 Morton Street North Richmond	59	53	P	45	39	47	41	1.7	1.6	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA04.RES.0305	NCA04	1	287443	6282220	Residential	7 Morton Street North Richmond	59	53	P	45	39	48	42	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0306	NCA04	1	287427	6282241	Residential	9 Morton Street North Richmond	60	53	P	45	41	47	42	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0307	NCA04	1	287427	6282257	Residential	11 Morton Street North Richmond	60	54	P	44	39	48	43	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0308	NCA04	1	287426	6282271	Residential	13 Morton Street North Richmond	60	54	P	47	42	50	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0309	NCA04	1	287431	6282283	Residential	15 Morton Street North Richmond	60	54	P	45	40	49	43	1.9	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0310	NCA04	1	287436	6282302	Residential	17 Morton Street North Richmond	60	54	P	45	39	48	42	1.8	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0311	NCA04	1	287526	6282182	Residential	2 Morton Street North Richmond	59	53	P	45	39	49	44	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0312	NCA04	1	287501	6282224	Residential	4 Morton Street North Richmond	59	53	P	47	42	52	46	1.6	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0313	NCA04	1	287489	6282238	Residential	6 Morton Street North Richmond	59	53	P	46	41	49	44	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0314	NCA04	1	287479	6282263	Residential	8 Morton Street North Richmond	60	54	P	46	41	50	44	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0315	NCA04	1	287484	6282283	Residential	10 Morton Street North Richmond	60	54	P	46	40	50	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0316	NCA04	1	287775	6281687	Residential	2 Pecks Road North Richmond	60	55	P	46	41	51	45	0.3	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0317	NCA04	1	287803	6281681	Residential	2 Pecks Road North Richmond	60	55	P	46	41	51	46	0.4	0.3	-	-	-	-	-	-	-	-
NCA04.RES.0318	NCA04	1	287767	6281695	Residential	4 Pecks Road North Richmond	60	55	P	46	41	51	46	0.3	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0319	NCA04	1	287752	6281715	Residential	6 Pecks Road North Richmond	60	55	P	46	40	52	46	0.2	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0320	NCA04	1	287747	6281725	Residential	8 Pecks Road North Richmond	60	55	P	46	41	52	46	0.3	0.2	-	-	-	-	-	-	-	-
NCA04.RES.0321	NCA04	1	287751	6281760	Residential	10 Pecks Road North Richmond	60	55	P	46	41	52	46	1.2	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0322	NCA04	1	287734	6281764	Residential	12 Pecks Road North Richmond	60	55	P	46	40	52	46	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0323	NCA04	1	287749	6281780	Residential	12 Pecks Road North Richmond	60	55	P	46	40	52	46	0.9	0.8	-	-	-	-	-	-	-	-
NCA04.RES.0324	NCA04	1	287721	6281800	Residential	14 Pecks Road North Richmond	60	55	P	45	39	52	46	1	0.9	-	-	-	-	-	-	-	-
NCA04.RES.0325	NCA04	1	287704	6281785	Residential	14 Pecks Road North Richmond	60	55	P	48	42	55	49	0.9	0.8	-	-	-	-	-	-	-	-
NCA04.RES.0326	NCA04	1	287697	6281818	Residential	16 Pecks Road North Richmond	60	55	P	46	40	52	46	1.3	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0327	NCA04	1	287687	6281828	Residential	18 Pecks Road North Richmond	60	54	P	46	40	51	45	1.2	1.2	-	-	-	-	-	-	-	-
NCA04.RES.0328	NCA04	1	287674	6281844	Residential	20 Pecks Road North Richmond	60	54	P	46	40	51	45	1.3	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0329	NCA04	1	287669	6281854	Residential	22 Pecks Road North Richmond	60	54	P	46	40	51	45	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0329	NCA04	2	287669	6281854	Residential	22 Pecks Road North Richmond	60	55	P	46	40	51	45	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0330	NCA04	1	287622	6281906	Residential	38 Pecks Road North Richmond	59	53	P	45	40	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0331	NCA04	1	287619	6281914	Residential	40 Pecks Road North Richmond	60	54	P	44	39	47	41	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0332	NCA04	1	287608	6281924	Residential	40 Pecks Road North Richmond	59	53	P	53	48	52	48	2.1	2	-	-	-	-	-	-	-	-
NCA04.RES.0333	NCA04	1	287607	6281939	Residential	42 Pecks Road North Richmond	59	53	P	45	40	47	42	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0334	NCA04	1	287605	6281960	Residential	44 Pecks Road North Richmond	59	53	P	45	40	47	42	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0335	NCA04	1	287588	6281978	Residential	46 Pecks Road North Richmond	59	53	P	47	43	48	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0336	NCA04	1	287544	6281994	Residential	48 Pecks Road North Richmond	58	52	P	48	43	48	43	1.1	1.1	-	-	-	-	-	-	-	-
NCA04.RES.0337	NCA04	1	287527	6282015	Residential	48 Pecks Road North Richmond	57	51	P	47	43	47	43	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0338	NCA04	1	287510	6282035	Residential	50 Pecks Road North Richmond	58	52	P	45	40	47	42	1.1	1	-	-	-	-	-	-	-	-
NCA04.RES.0339	NCA04	1	287512	6282064	Residential	52 Pecks Road North Richmond	57	51	P	46	41	48	42	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0340	NCA04	1	287438	6282153	Residential	58 Pecks Road North Richmond	58	52	P	47	43	48	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0341	NCA04	1	287433	6282171	Residential	60 Pecks Road North Richmond	58	52	P	45	40	48	42	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0342	NCA04	1	287413	6282180	Residential	62 Pecks Road North Richmond	58	52	P	45	39	47	42	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0343	NCA04	1	287403	6282198	Residential	64 Pecks Road North Richmond	59	52	P	45	39	47	42	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0344	NCA04	1	287399	6282203	Residential	66 Pecks Road North Richmond	58	52	P	52	48	52	48	1.6	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0345	NCA04	1	287324	6282234	Residential	70A Pecks Road North Richmond	59	52	P	45	40	48	42	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0346	NCA04	1	287286	6282260	Residential	72 Pecks Road North Richmond	58	52	P	45	40	48	42	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0347	NCA04	1	287323	6282255	Residential	3 Susella Crescent North Richmond	57	51	P	47	43	48	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0348	NCA04	1	287332	6282266	Residential	5 Susella Crescent North Richmond	59	53	P	45	40	48	42	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0349	NCA04	1	287341	6282289	Residential	7 Susella Crescent North Richmond	59	53	P	46	41	48	43	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0350	NCA04	1	287339	6282306	Residential	9 Susella Crescent North Richmond	59	53	P	45	39	48	42	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0351	NCA04	1	287341	6282320	Residential	11 Susella Crescent North Richmond	60	53	P	45	40	48	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0352	NCA04	1	287344	6282334	Residential	13 Susella Crescent North Richmond	60	53	P	49	44	50	45	1.9	1.7	-	-	-	-	-	-	-	-
NCA04.RES.0353	NCA04	1	287341	6282359	Residential	15 Susella Crescent North Richmond	59	53	P	50	45	50	46	2	1.9	-	-	-	-	-	-	-	-
NCA04.RES.0354	NCA04	1	287354	6282382	Residential	17 Susella Crescent North Richmond	59	53	P	46	41	50	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0355	NCA04	1	287371	6282400	Residential	19 Susella Crescent North Richmond	59	53	P	46	41	50	45	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0356	NCA04	1	287394	6282387	Residential	21 Susella Crescent North Richmond	60	54	P	46	41	51	45	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0357	NCA04	1	287427	6282365	Residential	23 Susella Crescent North Richmond	60	53	P	46	41	51	45	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0358	NCA04	1	287447	6282354	Residential	25 Susella Crescent North Richmond	60	54	P	46	40	51	45	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0359	NCA04	1	287466	6282349	Residential	27 Susella Crescent North Richmond	60	54	P	47	41	51	46	2.3	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0360	NCA04	1	287479	6282337	Residential	29 Susella Crescent North Richmond	60	54	P	47	42	51	46	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0361	NCA04	1	287498	6282325	Residential	31 Susella Crescent North Richmond	60	54	P	46	41	51	45	2.4	2.2	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA04.RES.0362	NCA04	1	287530	6282312	Residential	33 Susella Crescent North Richmond	60	55	P	48	44	52	46	2.4	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0363	NCA04	1	287556	6282295	Residential	37 Susella Crescent North Richmond	60	55	P	48	43	53	47	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0364	NCA04	1	287570	6282285	Residential	39 Susella Crescent North Richmond	60	55	P	48	42	53	47	2.2	2	-	-	-	-	-	-	-	-
NCA04.RES.0365	NCA04	1	287539	6282257	Residential	41 Susella Crescent North Richmond	59	53	P	55	50	61	55	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0366	NCA04	1	287524	6282260	Residential	43 Susella Crescent North Richmond	59	53	P	49	43	54	49	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0367	NCA04	1	287504	6282269	Residential	45 Susella Crescent North Richmond	60	54	P	48	42	54	48	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0368	NCA04	1	287373	6282217	Residential	2 Susella Crescent North Richmond	58	52	P	47	42	53	48	1.5	1.4	-	-	-	-	-	-	-	-
NCA04.RES.0369	NCA04	1	287383	6282236	Residential	4 Susella Crescent North Richmond	59	53	P	47	42	53	47	1.4	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0370	NCA04	1	287373	6282245	Residential	6 Susella Crescent North Richmond	58	51	P	47	42	53	48	1.9	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0371	NCA04	1	287389	6282262	Residential	8 Susella Crescent North Richmond	58	52	P	48	42	54	48	1.3	1.3	-	-	-	-	-	-	-	-
NCA04.RES.0372	NCA04	1	287381	6282292	Residential	10 Susella Crescent North Richmond	58	52	P	48	42	54	48	1.8	1.8	-	-	-	-	-	-	-	-
NCA04.RES.0373	NCA04	1	287393	6282330	Residential	12 Susella Crescent North Richmond	59	53	P	49	43	55	49	1.7	1.6	-	-	-	-	-	-	-	-
NCA04.RES.0374	NCA04	1	287407	6282313	Residential	14 Susella Crescent North Richmond	59	53	P	47	41	53	48	1.6	1.5	-	-	-	-	-	-	-	-
NCA04.RES.0375	NCA04	1	287763	6282418	Residential	1 Trent Place North Richmond	60	55	P	47	41	53	48	3.2	3.1	-	-	-	-	-	-	-	-
NCA04.RES.0376	NCA04	1	287804	6282386	Residential	3 Trent Place North Richmond	60	55	P	46	41	53	47	3	2.8	-	-	-	-	-	-	-	-
NCA04.RES.0377	NCA04	1	287785	6282415	Residential	2 Trent Place North Richmond	60	55	P	47	41	53	47	3	2.8	-	-	-	-	-	-	-	-
NCA04.RES.0378	NCA04	1	287894	6282360	Residential	49 William Street North Richmond	60	55	P	45	39	51	45	2.4	2.2	-	-	-	-	-	-	-	-
NCA04.RES.0379	NCA04	1	287877	6282383	Residential	51 William Street North Richmond	60	55	P	48	42	53	47	2.7	2.5	-	-	-	-	-	-	-	-
NCA04.RES.0380	NCA04	1	287885	6282371	Residential	51 William Street North Richmond	60	55	P	46	40	52	46	2.6	2.5	-	-	-	-	-	-	-	-
NCA04.RES.0381	NCA04	1	287864	6282354	Residential	51 William Street North Richmond	60	55	P	45	39	51	45	2.5	2.4	-	-	-	-	-	-	-	-
NCA04.RES.0382	NCA04	1	287856	6282399	Residential	53 William Street North Richmond	60	55	P	46	40	51	45	2.4	2.3	-	-	-	-	-	-	-	-
NCA04.RES.0383	NCA04	1	287852	6282410	Residential	55 William Street North Richmond	60	55	P	45	40	51	45	2.2	2.1	-	-	-	-	-	-	-	-
NCA04.RES.0384	NCA04	1	287839	6282425	Residential	57 William Street North Richmond	60	55	P	44	39	49	43	3.4	3.2	-	-	-	-	-	-	-	-
NCA04.RES.0385	NCA04	1	287805	6282436	Residential	59 William Street North Richmond	60	55	P	45	39	49	44	3.4	3.2	-	-	-	-	-	-	-	-
NCA04.RES.0386	NCA04	1	287825	6282440	Residential	59 William Street North Richmond	60	55	P	44	39	49	43	3.3	3.1	-	-	-	-	-	-	-	-
NCA04.RES.0387	NCA04	1	287810	6282457	Residential	61 William Street North Richmond	60	55	P	44	39	49	43	2.9	2.7	-	-	-	-	-	-	-	-
NCA04.RES.0388	NCA04	1	287791	6282475	Residential	63 William Street North Richmond	60	55	P	44	39	49	43	3.2	3.1	-	-	-	-	-	-	-	-
NCA04.RES.0389	NCA04	1	287773	6282482	Residential	65 William Street North Richmond	60	55	P	44	39	49	44	4.3	4.1	-	-	-	-	-	-	-	-
NCA05.OOA.0007	NCA05	1	288876	6281828	Other (Outdoor Active)	45 Beaumont Avenue North Richmond	60	-	P	44	39	49	44	14.3	14.2	-	-	-	-	-	-	-	-
NCA05.OOA.0008	NCA05	1	288776	6281744	Other (Outdoor Active)	31/34 Beaumont Avenue North Richmond	60	-	P	44	38	49	44	17.9	17.5	-	-	-	-	-	-	-	-
NCA05.OOA.0052	NCA05	1	288709	6282150	Other (Outdoor Active)	Beaumont Avenue North Richmond	60	-	P	43	38	49	44	3.5	3.5	-	-	-	-	-	-	-	-
NCA05.OOA.0099	NCA05	1	288596	6282144	Other (Outdoor Active)	20A Terrace Road North Richmond	60	-	P	45	40	51	45	3.6	3.4	-	-	-	-	-	-	-	-
NCA05.OPW.0090	NCA05	1	288589	6282239	Other (Place of Worship)	26 Terrace Rd North Richmond	50	50	H	44	39	50	44	0.1	0	-	-	-	-	-	-	-	-
NCA05.RES.0001	NCA05	1	288796	6282018	Residential	35 Beaumont Avenue North Richmond	59	54	P	45	39	50	44	6.5	6.8	-	-	-	-	-	-	-	-
NCA05.RES.0001	NCA05	2	288796	6282018	Residential	35 Beaumont Avenue North Richmond	59	54	P	45	40	49	43	6.9	7	-	-	-	-	-	-	-	-
NCA05.RES.0002	NCA05	1	288803	6282004	Residential	37 Beaumont Avenue North Richmond	59	54	P	45	40	49	43	6.8	7	-	-	-	-	-	-	-	-
NCA05.RES.0002	NCA05	2	288803	6282004	Residential	37 Beaumont Avenue North Richmond	59	54	P	44	39	49	43	6.7	6.9	-	-	-	-	-	-	-	-
NCA05.RES.0003	NCA05	1	288839	6281985	Residential	39 Beaumont Avenue North Richmond	58	53	P	43	37	49	43	10.8	10.8	-	-	-	-	-	-	-	-
NCA05.RES.0003	NCA05	2	288839	6281985	Residential	39 Beaumont Avenue North Richmond	58	53	P	44	38	49	43	9.3	9.3	-	-	-	-	-	-	-	-
NCA05.RES.0004	NCA05	1	288825	6281974	Residential	39 Beaumont Avenue North Richmond	58	53	P	45	39	49	44	11.8	11.8	-	-	-	-	-	-	-	-
NCA05.RES.0004	NCA05	2	288825	6281974	Residential	39 Beaumont Avenue North Richmond	58	53	P	44	39	49	43	10.8	10.7	-	-	-	-	-	-	-	-
NCA05.RES.0005	NCA05	1	288806	6281986	Residential	39 Beaumont Avenue North Richmond	59	54	P	45	39	49	44	8.4	8.5	-	-	-	-	-	-	-	-
NCA05.RES.0005	NCA05	2	288806	6281986	Residential	39 Beaumont Avenue North Richmond	59	54	P	44	39	49	44	7.9	8.1	-	-	-	-	-	-	-	-
NCA05.RES.0006	NCA05	1	288811	6281966	Residential	39 Beaumont Avenue North Richmond	58	53	P	45	39	49	43	8.6	8.6	-	-	-	-	-	-	-	-
NCA05.RES.0006	NCA05	2	288811	6281966	Residential	39 Beaumont Avenue North Richmond	58	53	P	44	38	49	43	8.3	8.3	-	-	-	-	-	-	-	-
NCA05.RES.0009	NCA05	1	288754	6282000	Residential	3/34 Beaumont Avenue North Richmond	60	55	P	45	40	50	45	7.4	7.5	-	-	-	-	-	-	-	-
NCA05.RES.0010	NCA05	1	288691	6281928	Residential	51/34 Beaumont Avenue North Richmond	60	55	P	47	41	53	48	8.6	8.6	-	-	-	-	-	-	-	-
NCA05.RES.0011	NCA05	1	288744	6281914	Residential	20/34 Beaumont Avenue North Richmond	59	54	P	46	41	53	47	9.4	9.5	-	-	-	-	-	-	-	-
NCA05.RES.0012	NCA05	1	288728	6281956	Residential	24/34 Beaumont Avenue North Richmond	60	55	P	45	40	53	47	7.6	7.7	-	-	-	-	-	-	-	-
NCA05.RES.0013	NCA05	1	288779	6281991	Residential	5/34 Beaumont Avenue North Richmond	59	54	P	48	42	56	50	7.2	7.1	-	-	-	-	-	-	-	-
NCA05.RES.0014	NCA05	1	288730	6281939	Residential	22/34 Beaumont Avenue North Richmond	60	55	P	43	37	49	44	7.7	7.8	-	-	-	-	-	-	-	-
NCA05.RES.0015	NCA05	1	288747	6281952	Residential	6/34 Beaumont Avenue North Richmond	60	55	P	46	40	53	47	8.9	8.9	-	-	-	-	-	-	-	-
NCA05.RES.0016	NCA05	1	288713	6281917	Residential	34 Beaumont Avenue North Richmond	60	55	P	46	40	53	47	9.7	9.7	-	-	-	-	-	-	-	-
NCA05.RES.0017	NCA05	1	288764	6281862	Residential	25/34 Beaumont Avenue North Richmond	57	52	P	46	40	53	47	13.5	13.4	-	-	-	-	-	-	-	-
NCA05.RES.0018	NCA05	1	288749	6282007	Residential	1/34 Beaumont Avenue North Richmond	60	55	P	46	40	52	47	7.2	7.2	-	-	-	-	-	-	-	-
NCA05.RES.0019	NCA05	1	288717	6281862	Residential	33/34 Beaumont Avenue North Richmond	59	54	P	46	40	52	46	17.3	17.3	-	-	-	-	-	-	-	-
NCA05.RES.0020	NCA05	1	288748	6281936	Residential	10/34 Beaumont Avenue North Richmond	59	54	P	46	40	52	46	8.8	8.8	-	-	-	-	-	-	-	-
NCA05.RES.0021	NCA05	1	288710	6281984	Residential	61/34 Beaumont Avenue North Richmond	60	55	P	49	43	55	49	8.2	8.3	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA05.RES.0022	NCA05	1	288687	6281981	Residential	61/34 Beaumont Avenue North Richmond	60	55	P	48	42	54	48	7.3	7.4	-	-	-	-	-	-	-	-
NCA05.RES.0023	NCA05	1	288740	6281839	Residential	31/34 Beaumont Avenue North Richmond	58	53	P	47	41	53	48	14.8	14.8	-	-	-	-	-	-	-	-
NCA05.RES.0024	NCA05	1	288788	6281936	Residential	15/34 Beaumont Avenue North Richmond	58	53	P	48	42	54	48	11.2	11.3	-	-	-	-	-	-	-	-
NCA05.RES.0025	NCA05	1	288776	6281882	Residential	23/34 Beaumont Avenue North Richmond	57	52	P	47	42	54	48	12.5	12.4	-	-	-	-	-	-	-	-
NCA05.RES.0026	NCA05	1	288781	6281980	Residential	7/34 Beaumont Avenue North Richmond	59	54	P	47	41	53	47	8.3	8.3	-	-	-	-	-	-	-	-
NCA05.RES.0027	NCA05	1	288708	6281945	Residential	55/34 Beaumont Avenue North Richmond	60	55	P	46	40	52	46	8.6	8.7	-	-	-	-	-	-	-	-
NCA05.RES.0028	NCA05	1	288750	6281918	Residential	12/34 Beaumont Avenue North Richmond	59	54	P	46	40	52	46	9	9	-	-	-	-	-	-	-	-
NCA05.RES.0029	NCA05	1	288697	6281917	Residential	45/34 Beaumont Avenue North Richmond	60	55	P	46	40	53	47	6.8	6.8	-	-	-	-	-	-	-	-
NCA05.RES.0030	NCA05	1	288719	6281992	Residential	65/34 Beaumont Avenue North Richmond	60	55	P	46	41	53	47	7.7	7.7	-	-	-	-	-	-	-	-
NCA05.RES.0031	NCA05	1	288788	6281910	Residential	19/34 Beaumont Avenue North Richmond	58	53	P	44	38	48	42	12	11.9	-	-	-	-	-	-	-	-
NCA05.RES.0032	NCA05	1	288731	6281896	Residential	18/34 Beaumont Avenue North Richmond	59	54	P	45	39	49	43	9.8	9.9	-	-	-	-	-	-	-	-
NCA05.RES.0033	NCA05	1	288758	6281853	Residential	29/34 Beaumont Avenue North Richmond	57	52	P	44	38	48	42	13.6	13.6	-	-	-	-	-	-	-	-
NCA05.RES.0034	NCA05	1	288789	6281924	Residential	17/34 Beaumont Avenue North Richmond	58	53	P	44	38	48	42	13.2	13.1	-	-	-	-	-	-	-	-
NCA05.RES.0035	NCA05	1	288680	6281946	Residential	51/34 Beaumont Avenue North Richmond	60	55	P	44	38	48	42	6.9	6.9	-	-	-	-	-	-	-	-
NCA05.RES.0036	NCA05	1	288716	6281954	Residential	59/34 Beaumont Avenue North Richmond	60	55	P	44	39	48	42	8.4	8.5	-	-	-	-	-	-	-	-
NCA05.RES.0037	NCA05	1	288711	6281939	Residential	34 Beaumont Avenue North Richmond	60	55	P	44	39	48	42	7.1	7.2	-	-	-	-	-	-	-	-
NCA05.RES.0038	NCA05	1	288718	6281897	Residential	39/34 Beaumont Avenue North Richmond	60	55	P	44	39	48	42	7.3	7.3	-	-	-	-	-	-	-	-
NCA05.RES.0039	NCA05	1	288744	6281886	Residential	16/34 Beaumont Avenue North Richmond	59	54	P	45	39	48	42	9.9	10.1	-	-	-	-	-	-	-	-
NCA05.RES.0040	NCA05	1	288670	6281937	Residential	47/34 Beaumont Avenue North Richmond	60	55	P	44	39	49	43	7.2	7.3	-	-	-	-	-	-	-	-
NCA05.RES.0041	NCA05	1	288786	6281950	Residential	13/34 Beaumont Avenue North Richmond	59	54	P	44	39	49	43	10.6	10.6	-	-	-	-	-	-	-	-
NCA05.RES.0042	NCA05	1	288680	6281920	Residential	47/34 Beaumont Avenue North Richmond	60	55	P	44	38	49	43	9.2	9.3	-	-	-	-	-	-	-	-
NCA05.RES.0043	NCA05	1	288780	6281891	Residential	21/34 Beaumont Avenue North Richmond	58	53	P	44	39	49	43	12.8	12.6	-	-	-	-	-	-	-	-
NCA05.RES.0044	NCA05	1	288739	6281872	Residential	35/34 Beaumont Avenue North Richmond	59	54	P	44	39	49	43	12	12	-	-	-	-	-	-	-	-
NCA05.RES.0045	NCA05	1	288710	6281875	Residential	37/34 Beaumont Avenue North Richmond	60	55	P	45	39	49	43	9.9	9.9	-	-	-	-	-	-	-	-
NCA05.RES.0046	NCA05	1	288722	6281967	Residential	26/34 Beaumont Avenue North Richmond	60	55	P	44	39	49	43	8	8.1	-	-	-	-	-	-	-	-
NCA05.RES.0047	NCA05	1	288739	6281982	Residential	2/34 Beaumont Avenue North Richmond	60	55	P	44	39	49	43	7.1	7.2	-	-	-	-	-	-	-	-
NCA05.RES.0048	NCA05	1	288703	6281912	Residential	43/34 Beaumont Avenue North Richmond	60	55	P	44	39	50	44	7.2	7.2	-	-	-	-	-	-	-	-
NCA05.RES.0049	NCA05	1	288719	6281978	Residential	28/34 Beaumont Avenue North Richmond	60	55	P	45	39	50	44	7.3	7.4	-	-	-	-	-	-	-	-
NCA05.RES.0050	NCA05	1	288784	6281959	Residential	11/34 Beaumont Avenue North Richmond	59	54	P	44	38	49	43	9.8	9.8	-	-	-	-	-	-	-	-
NCA05.RES.0051	NCA05	1	288703	6282015	Residential	36 Beaumont Avenue North Richmond	60	55	P	45	39	50	44	8	8	-	-	-	-	-	-	-	-
NCA05.RES.0051	NCA05	2	288703	6282015	Residential	36 Beaumont Avenue North Richmond	60	55	P	44	38	50	44	7.3	7.4	-	-	-	-	-	-	-	-
NCA05.RES.0053	NCA05	1	288518	6281976	Residential	28 Bells Line Of Road North Richmond	60	55	P	44	38	49	43	22.6	22.5	-	-	Y	-	Y	-	Y	Y
NCA05.RES.0054	NCA05	1	288922	6282050	Residential	11 Norfolk Place North Richmond	58	52	P	43	37	48	43	7.5	7.5	-	-	-	-	-	-	-	-
NCA05.RES.0054	NCA05	2	288913	6282046	Residential	11 Norfolk Place North Richmond	58	53	P	43	37	48	42	7.2	7.2	-	-	-	-	-	-	-	-
NCA05.RES.0055	NCA05	1	288881	6282092	Residential	15 Norfolk Place North Richmond	59	53	P	44	39	49	43	2.3	2.2	-	-	-	-	-	-	-	-
NCA05.RES.0056	NCA05	1	288910	6282128	Residential	17 Norfolk Place North Richmond	59	54	P	44	39	49	44	1.9	1.9	-	-	-	-	-	-	-	-
NCA05.RES.0057	NCA05	1	288964	6282062	Residential	23 Norfolk Place North Richmond	58	53	P	44	38	49	43	4.7	4.9	-	-	-	-	-	-	-	-
NCA05.RES.0057	NCA05	2	288972	6282064	Residential	23 Norfolk Place North Richmond	58	53	P	44	38	49	43	7.5	7.5	-	-	-	-	-	-	-	-
NCA05.RES.0058	NCA05	1	288998	6282046	Residential	23 Norfolk Place North Richmond	57	52	P	44	38	49	43	9.9	9.7	-	-	-	-	-	-	-	-
NCA05.RES.0058	NCA05	2	288991	6282045	Residential	23 Norfolk Place North Richmond	57	52	P	44	38	49	43	7.6	7.6	-	-	-	-	-	-	-	-
NCA05.RES.0059	NCA05	1	288969	6282027	Residential	25 Norfolk Place North Richmond	57	52	P	43	38	49	43	10.5	10.5	-	-	-	-	-	-	-	-
NCA05.RES.0059	NCA05	2	288963	6282026	Residential	25 Norfolk Place North Richmond	58	53	P	46	41	53	47	8.9	8.8	-	-	-	-	-	-	-	-
NCA05.RES.0060	NCA05	1	288945	6282009	Residential	27 Norfolk Place North Richmond	58	53	P	44	38	49	43	10.7	10.6	-	-	-	-	-	-	-	-
NCA05.RES.0060	NCA05	2	288949	6282009	Residential	27 Norfolk Place North Richmond	57	52	P	46	40	50	44	9.6	9.5	-	-	-	-	-	-	-	-
NCA05.RES.0061	NCA05	1	288906	6281977	Residential	31B Norfolk Place North Richmond	57	52	P	45	39	49	43	11.1	11	-	-	-	-	-	-	-	-
NCA05.RES.0061	NCA05	2	288900	6281975	Residential	31B Norfolk Place North Richmond	57	52	P	45	39	49	43	10	9.9	-	-	-	-	-	-	-	-
NCA05.RES.0062	NCA05	1	288881	6281953	Residential	33 Norfolk Place North Richmond	57	52	P	47	41	50	44	11.5	11.3	-	-	-	-	-	-	-	-
NCA05.RES.0062	NCA05	2	288881	6281953	Residential	33 Norfolk Place North Richmond	57	52	P	45	40	48	43	10.6	10.6	-	-	-	-	-	-	-	-
NCA05.RES.0063	NCA05	1	288864	6281932	Residential	35A Norfolk Place North Richmond	56	51	P	44	39	47	42	11.4	11.3	-	-	-	-	-	-	-	-
NCA05.RES.0063	NCA05	2	288864	6281932	Residential	35A Norfolk Place North Richmond	56	51	P	45	39	48	42	11.1	11	-	-	-	-	-	-	-	-
NCA05.RES.0064	NCA05	1	288837	6281901	Residential	37 Norfolk Place North Richmond	56	51	P	45	40	48	43	13.1	12.9	-	-	-	-	-	-	-	-
NCA05.RES.0064	NCA05	2	288837	6281901	Residential	37 Norfolk Place North Richmond	56	51	P	45	39	48	42	11.9	11.9	-	-	-	-	-	-	-	-
NCA05.RES.0065	NCA05	1	288908	6282078	Residential	14 Norfolk Place North Richmond	58	52	P	45	39	48	42	3.1	3.1	-	-	-	-	-	-	-	-
NCA05.RES.0066	NCA05	1	288888	6282109	Residential	16 Norfolk Place North Richmond	59	54	P	44	39	47	41	2.4	2.4	-	-	-	-	-	-	-	-
NCA05.RES.0067	NCA05	1	288927	6282128	Residential	18 Norfolk Place North Richmond	59	54	P	44	39	48	42	1.9	1.9	-	-	-	-	-	-	-	-
NCA05.RES.0067	NCA05	2	288927	6282128	Residential	18 Norfolk Place North Richmond	59	54	P	45	39	47	42	2.2	2.2	-	-	-	-	-	-	-	-
NCA05.RES.0068	NCA05	1	288937	6282100	Residential	18 Norfolk Place North Richmond	58	53	P	44	39	48	42	5.5	5.6	-	-	-	-	-	-	-	-
NCA05.RES.0068	NCA05	2	288937	6282100	Residential	18 Norfolk Place North Richmond	59	54	P	44	39	48	42	4.8	4.9	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA05.RES.0069	NCA05	1	288943	6282085	Residential	20 Norfolk Place North Richmond	59	53	P	45	39	49	43	4.8	4.9	-	-	-	-	-	-	-	-
NCA05.RES.0069	NCA05	2	288943	6282085	Residential	20 Norfolk Place North Richmond	59	54	P	60	55	59	55	4.6	4.7	-	-	-	-	-	-	-	-
NCA05.RES.0070	NCA05	1	288952	6282072	Residential	20 Norfolk Place North Richmond	58	53	P	53	49	54	50	4.7	4.8	-	-	-	-	-	-	-	-
NCA05.RES.0070	NCA05	2	288952	6282072	Residential	20 Norfolk Place North Richmond	58	53	P	49	44	51	46	4.2	4.3	-	-	-	-	-	-	-	-
NCA05.RES.0071	NCA05	1	288984	6282032	Residential	24 Norfolk Place North Richmond	57	52	P	61	56	60	56	9.5	9.4	-	-	-	-	-	-	-	-
NCA05.RES.0072	NCA05	1	288959	6282020	Residential	26 Norfolk Place North Richmond	58	53	P	53	49	53	49	10.4	10.3	-	-	-	-	-	-	-	-
NCA05.RES.0072	NCA05	2	288959	6282020	Residential	26 Norfolk Place North Richmond	58	53	P	51	46	51	47	9.3	9.2	-	-	-	-	-	-	-	-
NCA05.RES.0073	NCA05	1	288930	6281993	Residential	28A Norfolk Place North Richmond	57	52	P	62	56	63	57	11	10.8	-	-	-	-	-	-	-	-
NCA05.RES.0073	NCA05	2	288930	6281993	Residential	28A Norfolk Place North Richmond	57	52	P	62	56	63	57	9.6	9.6	-	-	-	-	-	-	-	-
NCA05.RES.0074	NCA05	1	288918	6281981	Residential	30 Norfolk Place North Richmond	57	52	P	62	56	63	57	11.1	10.9	-	-	-	-	-	-	-	-
NCA05.RES.0074	NCA05	2	288913	6281981	Residential	30 Norfolk Place North Richmond	57	52	P	62	56	63	57	9.6	9.6	-	-	-	-	-	-	-	-
NCA05.RES.0075	NCA05	1	288892	6281969	Residential	32 Norfolk Place North Richmond	57	52	P	62	56	63	57	10.9	10.7	-	-	-	-	-	-	-	-
NCA05.RES.0075	NCA05	2	288892	6281969	Residential	32 Norfolk Place North Richmond	57	52	P	62	56	63	57	10.1	10	-	-	-	-	-	-	-	-
NCA05.RES.0076	NCA05	1	288871	6281946	Residential	2/34 Norfolk Place North Richmond	57	52	P	62	56	63	57	10.9	10.7	-	-	-	-	-	-	-	-
NCA05.RES.0076	NCA05	2	288871	6281946	Residential	2/34 Norfolk Place North Richmond	57	52	P	61	56	63	57	10.3	10.2	-	-	-	-	-	-	-	-
NCA05.RES.0077	NCA05	1	288855	6281918	Residential	36 Norfolk Place North Richmond	56	51	P	61	55	62	56	11.8	11.8	-	-	-	-	-	-	-	-
NCA05.RES.0078	NCA05	1	288812	6281921	Residential	2/38 Norfolk Place North Richmond	57	52	P	61	55	62	56	11.5	11.6	-	-	-	-	-	-	-	-
NCA05.RES.0078	NCA05	2	288825	6281912	Residential	2/38 Norfolk Place North Richmond	57	52	P	61	55	62	56	12.5	12.6	-	-	-	-	-	-	-	-
NCA05.RES.0079	NCA05	1	288814	6281887	Residential	2/38 Norfolk Place North Richmond	56	51	P	61	56	62	56	13.1	13	-	-	-	-	-	-	-	-
NCA05.RES.0079	NCA05	2	288814	6281887	Residential	2/38 Norfolk Place North Richmond	56	51	P	61	55	62	56	12.3	12.2	-	-	-	-	-	-	-	-
NCA05.RES.0080	NCA05	1	288853	6281995	Residential	1 Rosetta Place North Richmond	58	53	P	61	55	62	56	10	10	-	-	-	-	-	-	-	-
NCA05.RES.0080	NCA05	2	288853	6281995	Residential	1 Rosetta Place North Richmond	58	53	P	61	55	62	56	8.3	8.4	-	-	-	-	-	-	-	-
NCA05.RES.0081	NCA05	1	288815	6282048	Residential	2/3 Rosetta Place North Richmond	60	54	P	62	56	62	56	3.2	3.2	-	-	-	-	-	-	-	-
NCA05.RES.0081	NCA05	2	288815	6282041	Residential	2/3 Rosetta Place North Richmond	60	55	P	62	56	62	56	4.7	4.7	-	-	-	-	-	-	-	-
NCA05.RES.0082	NCA05	1	288869	6282061	Residential	8/3 Rosetta Place North Richmond	59	53	P	61	55	62	56	6.5	6.6	-	-	-	-	-	-	-	-
NCA05.RES.0083	NCA05	1	288832	6282027	Residential	1/3 Rosetta Place North Richmond	58	52	P	61	55	62	56	6.9	7	-	-	-	-	-	-	-	-
NCA05.RES.0084	NCA05	1	288824	6282056	Residential	3/3 Rosetta Place North Richmond	59	53	P	62	57	64	58	4.5	4.4	-	-	-	-	-	-	-	-
NCA05.RES.0085	NCA05	1	288860	6282053	Residential	5/3 Rosetta Place North Richmond	59	53	P	61	55	62	56	6.3	6.3	-	-	-	-	-	-	-	-
NCA05.RES.0086	NCA05	1	288864	6282088	Residential	7/3 Rosetta Place North Richmond	59	53	P	61	55	62	56	1.7	1.6	-	-	-	-	-	-	-	-
NCA05.RES.0086	NCA05	2	288859	6282079	Residential	7/3 Rosetta Place North Richmond	59	54	P	62	56	62	57	5.6	5.6	-	-	-	-	-	-	-	-
NCA05.RES.0087	NCA05	1	288881	6282042	Residential	7 Rosetta Place North Richmond	58	53	P	63	57	64	58	6	6.1	-	-	-	-	-	-	-	-
NCA05.RES.0087	NCA05	2	288881	6282042	Residential	7 Rosetta Place North Richmond	58	53	P	61	55	62	56	6	6.1	-	-	-	-	-	-	-	-
NCA05.RES.0088	NCA05	1	288834	6282013	Residential	2 Rosetta Place North Richmond	57	52	P	61	55	62	57	5.1	5.1	-	-	-	-	-	-	-	-
NCA05.RES.0089	NCA05	1	288886	6282035	Residential	8 Rosetta Place North Richmond	58	53	P	61	56	62	57	5.8	5.9	-	-	-	-	-	-	-	-
NCA05.RES.0089	NCA05	2	288886	6282035	Residential	8 Rosetta Place North Richmond	58	53	P	60	54	62	56	5.6	5.8	-	-	-	-	-	-	-	-
NCA05.RES.0091	NCA05	1	289018	6282121	Residential	42 Terrace Rd North Richmond	59	54	P	61	56	62	57	6.9	6.9	-	-	-	-	-	-	-	-
NCA05.RES.0092	NCA05	1	288461	6282148	Residential	6 Terrace Road North Richmond	60	55	P	61	55	62	56	0.5	0.4	-	-	-	-	-	-	-	-
NCA05.RES.0093	NCA05	1	288479	6282160	Residential	8 Terrace Road North Richmond	60	55	P	60	54	62	56	0.3	0.3	-	-	-	-	-	-	-	-
NCA05.RES.0094	NCA05	1	288497	6282150	Residential	12 Terrace Road North Richmond	60	55	P	59	54	61	56	1.2	1.1	-	-	-	-	-	-	-	-
NCA05.RES.0095	NCA05	1	288495	6282168	Residential	12 Terrace Road North Richmond	60	55	P	61	55	62	56	0.3	0.2	-	-	-	-	-	-	-	-
NCA05.RES.0096	NCA05	1	288513	6282176	Residential	14 Terrace Road North Richmond	60	55	P	60	54	62	56	0.3	0.2	-	-	-	-	-	-	-	-
NCA05.RES.0097	NCA05	1	288530	6282192	Residential	16 Terrace Road North Richmond	60	55	P	62	56	63	57	0.2	0.2	-	-	-	-	-	-	-	-
NCA05.RES.0098	NCA05	1	288517	6282183	Residential	16 Terrace Road North Richmond	60	55	P	61	55	62	56	0.3	0.2	-	-	-	-	-	-	-	-
NCA05.RES.0100	NCA05	1	288549	6282200	Residential	20 Terrace Road North Richmond	60	55	P	61	55	63	57	0.2	0.1	-	-	-	-	-	-	-	-
NCA05.RES.0101	NCA05	1	288552	6282177	Residential	20A Terrace Road North Richmond	60	55	P	61	55	63	57	1.7	1.7	-	-	-	-	-	-	-	-
NCA05.RES.0102	NCA05	1	288557	6282209	Residential	22 Terrace Road North Richmond	60	55	P	61	55	63	57	0.2	0.1	-	-	-	-	-	-	-	-
NCA05.RES.0103	NCA05	1	288803	6282341	Residential	44 Terrace Road North Richmond	60	55	P	61	55	63	57	0.1	0	-	-	-	-	-	-	-	-
NCA05.RES.0104	NCA05	1	288823	6282329	Residential	44 Terrace Road North Richmond	60	55	P	61	55	63	57	0.1	0.1	-	-	-	-	-	-	-	-
NCA05.RES.0105	NCA05	1	288843	6282303	Residential	48A Terrace Road North Richmond	60	55	P	49	44	55	49	0.3	0.2	-	-	-	-	-	-	-	-
NCA05.RES.0106	NCA05	1	288913	6282237	Residential	48B Terrace Road North Richmond	60	55	P	61	55	62	56	0.7	0.6	-	-	-	-	-	-	-	-
NCA05.RES.0106	NCA05	2	288913	6282237	Residential	48B Terrace Road North Richmond	60	55	P	61	55	62	56	0.8	0.7	-	-	-	-	-	-	-	-
NCA06.OCC.0251	NCA06	1	288276	6281914	Other (Childcare)	33 Riverview Street North Richmond	45	-	H	61	55	62	56	2.3	2.2	-	-	Y	-	-	-	Y	-
NCA06.OME.0238	NCA06	1	288402	6281833	Other (Medical)	15 Riverview Street North Richmond	45	-	H	61	55	62	56	4.8	4.7	-	-	Y	-	-	-	Y	Y
NCA06.OME.0240	NCA06	1	288385	6281861	Other (Medical)	19 Riverview Street North Richmond	45	-	H	61	55	62	56	5.6	5.5	-	-	Y	-	-	-	Y	Y
NCA06.OOA.0204	NCA06	1	288043	6281389	Other (Outdoor Active)	90 Keda Circuit North Richmond	60	-	P	61	55	62	56	1.6	1.5	-	-	-	-	-	-	-	-
NCA06.RES.0001	NCA06	1	288239	6281816	Residential	3 Enfield Avenue North Richmond	60	55	P	61	55	62	56	2	1.9	-	-	-	-	-	-	-	-
NCA06.RES.0002	NCA06	1	288219	6281808	Residential	5 Enfield Avenue North Richmond	60	55	P	60	54	61	55	1.4	1.3	-	-	-	-	-	-	-	-
NCA06.RES.0003	NCA06	1	288210	6281790	Residential	7 Enfield Avenue North Richmond	60	55	P	61	55	62	56	1.5	1.4	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0004	NCA06	1	288192	6281781	Residential	9 Enfield Avenue North Richmond	60	55	P	61	55	62	56	1.1	1	-	-	-	-	-	-	-	-
NCA06.RES.0005	NCA06	1	288178	6281764	Residential	11 Enfield Avenue North Richmond	60	55	P	60	54	61	55	1.1	1	-	-	-	-	-	-	-	-
NCA06.RES.0006	NCA06	1	288166	6281754	Residential	13 Enfield Avenue North Richmond	60	55	P	60	54	61	55	1	1	-	-	-	-	-	-	-	-
NCA06.RES.0007	NCA06	1	288153	6281747	Residential	15 Enfield Avenue North Richmond	60	55	P	60	54	61	55	1	0.9	-	-	-	-	-	-	-	-
NCA06.RES.0008	NCA06	1	288137	6281732	Residential	17 Enfield Avenue North Richmond	60	55	P	59	54	61	55	0.8	0.7	-	-	-	-	-	-	-	-
NCA06.RES.0009	NCA06	1	288122	6281718	Residential	19 Enfield Avenue North Richmond	60	55	P	60	54	62	56	0.8	0.7	-	-	-	-	-	-	-	-
NCA06.RES.0010	NCA06	1	288115	6281710	Residential	21 Enfield Avenue North Richmond	60	55	P	61	55	62	56	0.7	0.7	-	-	-	-	-	-	-	-
NCA06.RES.0011	NCA06	1	288100	6281697	Residential	23 Enfield Avenue North Richmond	60	55	P	61	55	62	56	0.7	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0012	NCA06	1	288081	6281681	Residential	25 Enfield Avenue North Richmond	60	55	P	60	54	62	56	0.7	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0013	NCA06	1	288070	6281670	Residential	27 Enfield Avenue North Richmond	60	55	P	60	54	62	56	0.7	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0014	NCA06	1	288057	6281660	Residential	29 Enfield Avenue North Richmond	60	55	P	60	54	62	56	0.6	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0015	NCA06	1	288044	6281645	Residential	31 Enfield Avenue North Richmond	60	55	P	60	54	62	56	0.7	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0016	NCA06	1	288027	6281634	Residential	33 Enfield Avenue North Richmond	60	55	P	61	55	62	56	0.7	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0017	NCA06	1	288017	6281623	Residential	35 Enfield Avenue North Richmond	60	55	P	61	55	62	56	0.5	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0018	NCA06	1	287959	6281568	Residential	37 Enfield Avenue North Richmond	60	55	P	47	42	51	45	0.3	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0019	NCA06	1	287946	6281558	Residential	39 Enfield Avenue North Richmond	60	55	P	46	40	50	44	0.3	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0020	NCA06	1	287932	6281547	Residential	41 Enfield Avenue North Richmond	60	55	P	48	42	50	44	0.4	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0021	NCA06	1	287922	6281537	Residential	43 Enfield Avenue North Richmond	60	55	P	48	42	51	45	0.4	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0022	NCA06	1	287903	6281522	Residential	45 Enfield Avenue North Richmond	60	55	P	47	41	50	44	0.4	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0023	NCA06	1	288220	6281871	Residential	2 Enfield Avenue North Richmond	60	55	P	47	41	52	46	0.9	0.8	-	-	-	-	-	-	-	-
NCA06.RES.0023	NCA06	2	288203	6281879	Residential	2 Enfield Avenue North Richmond	60	55	P	48	42	52	46	0.6	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0024	NCA06	1	288199	6281853	Residential	4 Enfield Avenue North Richmond	60	55	P	48	42	52	46	1.3	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0025	NCA06	1	288195	6281846	Residential	6 Enfield Avenue North Richmond	60	55	P	49	42	52	46	1.5	1.5	-	-	-	-	-	-	-	-
NCA06.RES.0026	NCA06	1	288179	6281837	Residential	8 Enfield Avenue North Richmond	60	55	P	47	41	51	45	1.3	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0027	NCA06	1	288159	6281824	Residential	10 Enfield Avenue North Richmond	60	55	P	47	41	51	45	1.2	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0028	NCA06	1	288143	6281803	Residential	12 Enfield Avenue North Richmond	60	55	P	46	40	50	44	0.7	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0029	NCA06	1	288133	6281799	Residential	14 Enfield Avenue North Richmond	60	55	P	48	42	50	44	0.6	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0030	NCA06	1	288118	6281781	Residential	16 Enfield Avenue North Richmond	60	55	P	48	42	50	44	1.1	1	-	-	-	-	-	-	-	-
NCA06.RES.0031	NCA06	1	288105	6281768	Residential	18 Enfield Avenue North Richmond	60	55	P	48	42	51	44	0.7	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0032	NCA06	1	288082	6281752	Residential	20 Enfield Avenue North Richmond	60	55	P	47	41	51	45	0.3	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0033	NCA06	1	288073	6281746	Residential	22 Enfield Avenue North Richmond	60	55	P	48	42	50	44	0.4	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0034	NCA06	1	288058	6281736	Residential	24 Enfield Avenue North Richmond	60	55	P	47	41	52	46	0.5	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0035	NCA06	1	288048	6281720	Residential	26 Enfield Avenue North Richmond	60	55	P	48	42	52	46	0.5	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0036	NCA06	1	288032	6281722	Residential	28 Enfield Avenue North Richmond	60	55	P	49	43	51	45	0.5	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0037	NCA06	1	288005	6281700	Residential	30 Enfield Avenue North Richmond	60	55	P	49	43	51	44	0.3	0.2	-	-	-	-	-	-	-	-
NCA06.RES.0038	NCA06	1	288005	6281687	Residential	32 Enfield Avenue North Richmond	60	55	P	48	42	50	44	0.5	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0039	NCA06	1	288000	6281679	Residential	34 Enfield Avenue North Richmond	60	55	P	48	42	50	44	0.6	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0040	NCA06	1	287981	6281660	Residential	36 Enfield Avenue North Richmond	60	55	P	48	42	50	44	0.5	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0041	NCA06	1	287963	6281640	Residential	38 Enfield Avenue North Richmond	60	55	P	48	42	50	44	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0042	NCA06	1	287918	6281615	Residential	44 Enfield Avenue North Richmond	60	55	P	47	41	50	44	0.2	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0043	NCA06	1	287903	6281610	Residential	46 Enfield Avenue North Richmond	60	55	P	47	41	49	43	0.2	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0044	NCA06	1	287885	6281596	Residential	48 Enfield Avenue North Richmond	60	55	P	47	41	49	43	0.2	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0045	NCA06	1	287872	6281590	Residential	50 Enfield Avenue North Richmond	60	55	P	46	40	49	43	0.2	0.2	-	-	-	-	-	-	-	-
NCA06.RES.0046	NCA06	1	287865	6281565	Residential	52 Enfield Avenue North Richmond	60	55	P	48	42	51	45	0.2	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0047	NCA06	1	288516	6281765	Residential	1 Flinders Place North Richmond	60	55	P	46	40	49	43	10.7	10.8	-	-	-	-	-	-	-	-
NCA06.RES.0048	NCA06	1	288524	6281733	Residential	1 Flinders Place North Richmond	60	55	P	46	40	49	43	9.8	9.8	-	-	-	-	-	-	-	-
NCA06.RES.0049	NCA06	1	288544	6281733	Residential	1 Flinders Place North Richmond	60	55	P	52	46	53	47	13.5	13.7	-	-	-	-	-	-	-	-
NCA06.RES.0050	NCA06	1	288514	6281745	Residential	1 Flinders Place North Richmond	60	55	P	50	44	52	46	9.5	9.5	-	-	-	-	-	-	-	-
NCA06.RES.0051	NCA06	1	288554	6281723	Residential	8/3 Flinders Place North Richmond	60	55	P	48	42	51	45	13.8	13.8	-	-	-	-	-	-	-	-
NCA06.RES.0052	NCA06	1	288543	6281686	Residential	3 Flinders Place North Richmond	59	54	P	46	40	49	43	11.5	11.4	-	-	-	-	-	-	-	-
NCA06.RES.0052	NCA06	2	288543	6281686	Residential	3 Flinders Place North Richmond	59	54	P	48	42	51	44	11.9	11.8	-	-	-	-	-	-	-	-
NCA06.RES.0053	NCA06	1	288556	6281693	Residential	8/3 Flinders Place North Richmond	59	54	P	48	42	49	43	12.7	12.6	-	-	-	-	-	-	-	-
NCA06.RES.0053	NCA06	2	288559	6281699	Residential	8/3 Flinders Place North Richmond	59	54	P	47	41	49	43	13.4	13.3	-	-	-	-	-	-	-	-
NCA06.RES.0054	NCA06	1	288564	6281708	Residential	8/3 Flinders Place North Richmond	59	54	P	45	39	49	43	11.2	11	-	-	-	-	-	-	-	-
NCA06.RES.0054	NCA06	2	288564	6281708	Residential	8/3 Flinders Place North Richmond	59	54	P	48	42	51	45	13.2	13	-	-	-	-	-	-	-	-
NCA06.RES.0055	NCA06	1	288539	6281707	Residential	3 Flinders Place North Richmond	59	54	P	45	39	49	43	14.5	14.5	-	-	-	-	-	-	-	-
NCA06.RES.0055	NCA06	2	288539	6281707	Residential	3 Flinders Place North Richmond	59	54	P	46	40	49	43	13.3	13.4	-	-	-	-	-	-	-	-
NCA06.RES.0056	NCA06	1	288550	6281716	Residential	8/3 Flinders Place North Richmond	60	55	P	46	40	50	44	15.2	15.3	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0056	NCA06	2	288550	6281716	Residential	8/3 Flinders Place North Richmond	60	55	P	46	40	49	43	12.7	12.6	-	-	-	-	-	-	-	-
NCA06.RES.0057	NCA06	1	288566	6281630	Residential	13 Flinders Place North Richmond	56	51	P	45	39	48	42	14.4	14.2	-	-	-	-	-	-	-	-
NCA06.RES.0057	NCA06	2	288566	6281630	Residential	13 Flinders Place North Richmond	56	51	P	46	40	50	44	12	11.8	-	-	-	-	-	-	-	-
NCA06.RES.0058	NCA06	1	288537	6281614	Residential	15 Flinders Place North Richmond	56	51	P	46	40	50	44	12.6	12.4	-	-	-	-	-	-	-	-
NCA06.RES.0058	NCA06	2	288537	6281614	Residential	15 Flinders Place North Richmond	56	51	P	46	40	49	43	10.4	10.2	-	-	-	-	-	-	-	-
NCA06.RES.0058	NCA06	3	288545	6281628	Residential	15 Flinders Place North Richmond	57	52	P	44	39	47	41	10.5	10.5	-	-	-	-	-	-	-	-
NCA06.RES.0059	NCA06	2	288521	6281613	Residential	17 Flinders Place North Richmond	57	52	P	44	39	46	40	8.5	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0059	NCA06	3	288521	6281613	Residential	17 Flinders Place North Richmond	57	52	P	43	38	46	41	9.3	9.1	-	-	-	-	-	-	-	-
NCA06.RES.0060	NCA06	1	288505	6281598	Residential	19 Flinders Place North Richmond	57	52	P	43	38	46	40	9.6	9.2	-	-	-	-	-	-	-	-
NCA06.RES.0060	NCA06	2	288512	6281605	Residential	19 Flinders Place North Richmond	57	52	P	44	39	47	41	9.5	9.3	-	-	-	-	-	-	-	-
NCA06.RES.0061	NCA06	1	288510	6281580	Residential	21A Flinders Place North Richmond	55	50	P	44	38	47	41	10.4	10.3	-	-	-	-	-	-	-	-
NCA06.RES.0061	NCA06	2	288510	6281580	Residential	21A Flinders Place North Richmond	55	50	P	44	38	46	41	10	9.8	-	-	-	-	-	-	-	-
NCA06.RES.0061	NCA06	3	288510	6281580	Residential	21A Flinders Place North Richmond	55	50	P	44	38	46	40	10	9.8	-	-	-	-	-	-	-	-
NCA06.RES.0062	NCA06	1	288481	6281567	Residential	23 Flinders Place North Richmond	56	51	P	47	41	48	42	7.8	7.6	-	-	-	-	-	-	-	-
NCA06.RES.0062	NCA06	2	288481	6281567	Residential	23 Flinders Place North Richmond	56	51	P	46	40	48	42	7.3	7	-	-	-	-	-	-	-	-
NCA06.RES.0062	NCA06	3	288481	6281567	Residential	23 Flinders Place North Richmond	56	51	P	46	40	48	42	7.6	7.5	-	-	-	-	-	-	-	-
NCA06.RES.0063	NCA06	1	288465	6281554	Residential	25A Flinders Place North Richmond	56	51	P	46	40	49	43	8.5	8.5	-	-	-	-	-	-	-	-
NCA06.RES.0063	NCA06	2	288465	6281554	Residential	25A Flinders Place North Richmond	56	51	P	44	39	49	43	7.5	7.5	-	-	-	-	-	-	-	-
NCA06.RES.0063	NCA06	3	288465	6281554	Residential	25A Flinders Place North Richmond	56	51	P	44	38	49	43	7.7	7.6	-	-	-	-	-	-	-	-
NCA06.RES.0064	NCA06	1	288463	6281522	Residential	27 Flinders Place North Richmond	55	50	P	44	39	50	44	13.6	13.6	-	-	-	-	-	-	-	-
NCA06.RES.0064	NCA06	2	288464	6281524	Residential	27 Flinders Place North Richmond	55	50	P	45	39	50	44	10	10.1	-	-	-	-	-	-	-	-
NCA06.RES.0065	NCA06	1	288440	6281535	Residential	27A Flinders Place North Richmond	56	51	P	44	39	49	44	8.1	7.8	-	-	-	-	-	-	-	-
NCA06.RES.0065	NCA06	2	288443	6281553	Residential	27A Flinders Place North Richmond	57	52	P	45	39	51	45	8.5	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0066	NCA06	1	288435	6281523	Residential	27A Flinders Place North Richmond	56	51	P	44	39	51	45	8.3	8.2	-	-	-	-	-	-	-	-
NCA06.RES.0066	NCA06	2	288435	6281523	Residential	27A Flinders Place North Richmond	56	51	P	45	39	51	45	8.2	8.1	-	-	-	-	-	-	-	-
NCA06.RES.0067	NCA06	1	288382	6281507	Residential	33 Flinders Place North Richmond	57	52	P	44	39	51	45	7.2	7	-	-	-	-	-	-	-	-
NCA06.RES.0067	NCA06	2	288382	6281507	Residential	33 Flinders Place North Richmond	57	52	P	45	39	51	45	7.2	7	-	-	-	-	-	-	-	-
NCA06.RES.0067	NCA06	3	288387	6281511	Residential	33 Flinders Place North Richmond	57	52	P	45	39	51	45	8	7.9	-	-	-	-	-	-	-	-
NCA06.RES.0068	NCA06	1	288403	6281508	Residential	33 Flinders Place North Richmond	57	52	P	46	40	52	46	8.2	8	-	-	-	-	-	-	-	-
NCA06.RES.0068	NCA06	2	288403	6281508	Residential	33 Flinders Place North Richmond	57	52	P	46	40	52	46	8.1	7.9	-	-	-	-	-	-	-	-
NCA06.RES.0069	NCA06	1	288354	6281481	Residential	35 Flinders Place North Richmond	56	51	P	47	41	52	46	8.6	8.4	-	-	-	-	-	-	-	-
NCA06.RES.0069	NCA06	2	288354	6281481	Residential	35 Flinders Place North Richmond	56	51	P	46	40	52	46	8.6	8.4	-	-	-	-	-	-	-	-
NCA06.RES.0070	NCA06	1	288321	6281467	Residential	37A Flinders Place North Richmond	56	51	P	62	57	62	56	8.3	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0070	NCA06	2	288321	6281467	Residential	37A Flinders Place North Richmond	56	51	P	47	41	50	44	8.1	8.1	-	-	-	-	-	-	-	-
NCA06.RES.0071	NCA06	1	288349	6281444	Residential	37B Flinders Place North Richmond	55	50	P	47	41	50	44	9.1	8.9	-	-	-	-	-	-	-	-
NCA06.RES.0071	NCA06	2	288349	6281444	Residential	37B Flinders Place North Richmond	55	50	P	47	41	50	44	8.9	8.6	-	-	-	-	-	-	-	-
NCA06.RES.0071	NCA06	3	288346	6281438	Residential	37B Flinders Place North Richmond	55	50	P	46	40	50	44	8.6	8.5	-	-	-	-	-	-	-	-
NCA06.RES.0072	NCA06	1	288370	6281555	Residential	39 Flinders Place North Richmond	58	53	P	47	41	50	44	6.6	6.5	-	-	-	-	-	-	-	-
NCA06.RES.0072	NCA06	2	288370	6281545	Residential	39 Flinders Place North Richmond	57	52	P	47	41	50	44	8.5	8.4	-	-	-	-	-	-	-	-
NCA06.RES.0073	NCA06	1	288365	6281569	Residential	41 Flinders Place North Richmond	58	53	P	46	40	52	46	6.3	6.3	-	-	-	-	-	-	-	-
NCA06.RES.0074	NCA06	1	288350	6281586	Residential	43 Flinders Place North Richmond	59	54	P	49	43	54	48	4.6	4.6	-	-	-	-	-	-	-	-
NCA06.RES.0074	NCA06	2	288350	6281586	Residential	43 Flinders Place North Richmond	59	54	P	50	44	54	48	5.7	5.8	-	-	-	-	-	-	-	-
NCA06.RES.0075	NCA06	1	288333	6281602	Residential	45 Flinders Place North Richmond	59	54	P	51	45	55	49	4.2	4.1	-	-	-	-	-	-	-	-
NCA06.RES.0075	NCA06	2	288333	6281602	Residential	45 Flinders Place North Richmond	59	54	P	61	56	62	56	5.2	5.1	-	-	-	-	-	-	-	-
NCA06.RES.0076	NCA06	1	288312	6281619	Residential	47 Flinders Place North Richmond	60	54	P	52	50	52	51	4.2	4.2	-	-	-	-	-	-	-	-
NCA06.RES.0077	NCA06	1	288297	6281637	Residential	1/49 Flinders Place North Richmond	60	54	P	53	52	53	52	4.8	4.9	-	-	-	-	-	-	-	-
NCA06.RES.0077	NCA06	2	288297	6281637	Residential	1/49 Flinders Place North Richmond	60	55	P	52	51	53	52	4	3.9	-	-	-	-	-	-	-	-
NCA06.RES.0078	NCA06	1	288269	6281633	Residential	1/49 Flinders Place North Richmond	60	54	P	50	49	53	51	2.8	2.8	-	-	-	-	-	-	-	-
NCA06.RES.0079	NCA06	1	288288	6281649	Residential	51 Flinders Place North Richmond	60	54	P	52	50	55	53	4.5	4.5	-	-	-	-	-	-	-	-
NCA06.RES.0080	NCA06	1	288299	6281668	Residential	53 Flinders Place North Richmond	60	54	P	51	50	52	51	6.4	6.5	-	-	-	-	-	-	-	-
NCA06.RES.0081	NCA06	1	288314	6281688	Residential	55 Flinders Place North Richmond	60	55	P	50	48	52	50	4.4	4.4	-	-	-	-	-	-	-	-
NCA06.RES.0082	NCA06	1	288331	6281698	Residential	57 Flinders Place North Richmond	60	55	P	54	53	55	54	4.7	4.7	-	-	-	-	-	-	-	-
NCA06.RES.0083	NCA06	1	288342	6281703	Residential	59 Flinders Place North Richmond	60	55	P	49	48	51	50	5.8	5.7	-	-	-	-	-	-	-	-
NCA06.RES.0084	NCA06	1	288358	6281721	Residential	61 Flinders Place North Richmond	60	54	P	40	38	41	39	6.4	6.4	-	-	-	-	-	-	-	-
NCA06.RES.0085	NCA06	1	288379	6281773	Residential	63A Flinders Place North Richmond	60	55	P	42	40	42	40	4.2	4.2	-	-	-	-	-	-	-	-
NCA06.RES.0086	NCA06	1	288371	6281746	Residential	63 Flinders Place North Richmond	60	55	P	43	41	46	44	6	6	-	-	-	-	-	-	-	-
NCA06.RES.0086	NCA06	2	288366	6281752	Residential	63 Flinders Place North Richmond	60	55	P	44	43	48	46	4.4	4.5	-	-	-	-	-	-	-	-
NCA06.RES.0087	NCA06	1	288409	6281750	Residential	65 Flinders Place North Richmond	60	55	P	46	45	50	47	5.1	5.1	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0088	NCA06	1	288413	6281767	Residential	65 Flinders Place North Richmond	60	55	P	42	40	43	41	5.3	5.2	-	-	-	-	-	-	-	-
NCA06.RES.0089	NCA06	1	288483	6281707	Residential	2 Flinders Place North Richmond	60	55	P	43	41	45	43	8.3	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0090	NCA06	1	288489	6281693	Residential	4 Flinders Place North Richmond	60	55	P	42	40	43	41	9.9	9.7	-	-	-	-	-	-	-	-
NCA06.RES.0090	NCA06	2	288489	6281693	Residential	4 Flinders Place North Richmond	60	55	P	43	41	44	42	10.2	10.1	-	-	-	-	-	-	-	-
NCA06.RES.0091	NCA06	1	288519	6281664	Residential	6 Flinders Place North Richmond	59	54	P	45	43	48	45	11.2	11	-	-	-	-	-	-	-	-
NCA06.RES.0091	NCA06	2	288519	6281664	Residential	6 Flinders Place North Richmond	59	54	P	46	45	49	47	11.1	10.9	-	-	-	-	-	-	-	-
NCA06.RES.0092	NCA06	1	288489	6281642	Residential	8 Flinders Place North Richmond	59	54	P	48	46	50	48	10	9.8	-	-	-	-	-	-	-	-
NCA06.RES.0092	NCA06	2	288489	6281642	Residential	8 Flinders Place North Richmond	59	54	P	48	46	48	47	10.1	9.8	-	-	-	-	-	-	-	-
NCA06.RES.0093	NCA06	1	288433	6281598	Residential	18 Flinders Place North Richmond	58	53	P	47	46	48	47	8.8	8.6	-	-	-	-	-	-	-	-
NCA06.RES.0093	NCA06	2	288433	6281598	Residential	18 Flinders Place North Richmond	58	53	P	46	44	48	46	8.7	8.6	-	-	-	-	-	-	-	-
NCA06.RES.0094	NCA06	1	288415	6281580	Residential	20A Flinders Place North Richmond	58	53	P	40	38	42	40	7.4	7.4	-	-	-	-	-	-	-	-
NCA06.RES.0094	NCA06	2	288415	6281580	Residential	20A Flinders Place North Richmond	58	53	P	44	42	46	45	8.2	8	-	-	-	-	-	-	-	-
NCA06.RES.0095	NCA06	1	288397	6281607	Residential	22 Flinders Place North Richmond	59	54	P	45	44	48	46	9.2	9.2	-	-	-	-	-	-	-	-
NCA06.RES.0095	NCA06	2	288397	6281607	Residential	22 Flinders Place North Richmond	59	54	P	39	38	41	39	7	7	-	-	-	-	-	-	-	-
NCA06.RES.0096	NCA06	1	288382	6281623	Residential	24 Flinders Place North Richmond	59	54	P	42	40	43	41	10.8	10.7	-	-	-	-	-	-	-	-
NCA06.RES.0096	NCA06	2	288382	6281623	Residential	24 Flinders Place North Richmond	59	54	P	46	44	48	46	7.2	7.2	-	-	-	-	-	-	-	-
NCA06.RES.0097	NCA06	1	288378	6281638	Residential	26 Flinders Place North Richmond	59	54	P	43	41	43	41	6.6	6.6	-	-	-	-	-	-	-	-
NCA06.RES.0098	NCA06	1	288359	6281656	Residential	28 Flinders Place North Richmond	60	55	P	48	47	49	47	5.9	5.7	-	-	-	-	-	-	-	-
NCA06.RES.0099	NCA06	1	288373	6281681	Residential	30 Flinders Place North Richmond	60	55	P	47	45	49	47	5.8	5.9	-	-	-	-	-	-	-	-
NCA06.RES.0100	NCA06	1	288395	6281678	Residential	32 Flinders Place North Richmond	60	55	P	46	44	48	46	5.9	5.8	-	-	-	-	-	-	-	-
NCA06.RES.0101	NCA06	1	288414	6281701	Residential	34 Flinders Place North Richmond	60	55	P	46	45	47	46	6.6	6.6	-	-	-	-	-	-	-	-
NCA06.RES.0102	NCA06	1	288422	6281742	Residential	36 Flinders Place North Richmond	60	55	P	44	42	44	42	5.2	5.2	-	-	-	-	-	-	-	-
NCA06.RES.0103	NCA06	1	288259	6281986	Residential	13 Grose Vale Road North Richmond	60	55	P	45	43	46	44	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0104	NCA06	1	288278	6281973	Residential	13 Grose Vale Road North Richmond	60	55	P	46	45	49	47	0.3	0.2	-	-	-	-	-	-	-	-
NCA06.RES.0105	NCA06	1	288243	6281978	Residential	15 Grose Vale Road North Richmond	60	55	P	44	42	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0106	NCA06	1	288250	6281942	Residential	17 Grose Vale Road North Richmond	60	55	P	45	43	46	44	0.6	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0107	NCA06	1	288236	6281966	Residential	17 Grose Vale Road North Richmond	60	55	P	46	44	47	45	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0107	NCA06	2	288236	6281966	Residential	17 Grose Vale Road North Richmond	60	55	P	45	44	48	46	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0108	NCA06	1	288227	6281947	Residential	19 Grose Vale Road North Richmond	60	55	P	44	42	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0109	NCA06	1	288172	6281911	Residential	23 Grose Vale Road North Richmond	60	55	P	36	34	38	36	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0110	NCA06	1	288172	6281893	Residential	25 Grose Vale Road North Richmond	60	55	P	40	38	42	39	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0111	NCA06	1	288151	6281890	Residential	27 Grose Vale Road North Richmond	60	55	P	44	42	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0112	NCA06	1	288134	6281876	Residential	29 Grose Vale Road North Richmond	60	55	P	48	46	50	48	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0112	NCA06	2	288134	6281876	Residential	29 Grose Vale Road North Richmond	60	55	P	47	45	49	47	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0113	NCA06	1	288123	6281868	Residential	29 Grose Vale Road North Richmond	60	55	P	39	37	41	38	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0113	NCA06	2	288123	6281868	Residential	29 Grose Vale Road North Richmond	60	55	P	42	40	44	42	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0114	NCA06	1	288147	6281845	Residential	29 Grose Vale Road North Richmond	60	55	P	43	41	43	41	0.3	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0114	NCA06	2	288147	6281845	Residential	29 Grose Vale Road North Richmond	60	55	P	43	41	44	42	0.5	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0115	NCA06	1	288139	6281853	Residential	29 Grose Vale Road North Richmond	60	55	P	47	45	49	47	0.3	0.2	-	-	-	-	-	-	-	-
NCA06.RES.0116	NCA06	1	288124	6281827	Residential	33 Grose Vale Road North Richmond	60	55	P	48	47	50	48	0.2	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0117	NCA06	1	288116	6281861	Residential	33 Grose Vale Road North Richmond	60	55	P	49	48	51	49	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0118	NCA06	1	288107	6281852	Residential	33 Grose Vale Road North Richmond	60	55	P	45	44	47	45	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0118	NCA06	2	288107	6281852	Residential	33 Grose Vale Road North Richmond	60	55	P	47	45	48	46	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0119	NCA06	1	288100	6281830	Residential	35 Grose Vale Road North Richmond	60	55	P	42	41	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0120	NCA06	1	288087	6281812	Residential	37 Grose Vale Road North Richmond	60	55	P	44	42	47	45	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0121	NCA06	1	288103	6281810	Residential	37 Grose Vale Road North Richmond	60	55	P	45	43	47	45	0.8	0.7	-	-	-	-	-	-	-	-
NCA06.RES.0122	NCA06	1	288088	6281810	Residential	37 Grose Vale Road North Richmond	60	55	P	47	45	49	47	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0122	NCA06	2	288088	6281810	Residential	37 Grose Vale Road North Richmond	60	55	P	41	38	42	40	0.1	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0123	NCA06	1	288082	6281828	Residential	37 Grose Vale Road North Richmond	60	55	P	43	41	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0123	NCA06	2	288082	6281828	Residential	37 Grose Vale Road North Richmond	60	55	P	43	41	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0124	NCA06	1	288096	6281800	Residential	37 Grose Vale Road North Richmond	60	55	P	45	43	48	45	0.1	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0124	NCA06	2	288096	6281800	Residential	37 Grose Vale Road North Richmond	60	55	P	43	41	46	43	0.2	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0125	NCA06	1	288072	6281804	Residential	39 Grose Vale Road North Richmond	60	55	P	42	40	44	42	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0126	NCA06	1	288050	6281803	Residential	41 Grose Vale Road North Richmond	60	55	P	43	41	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0126	NCA06	2	288050	6281803	Residential	41 Grose Vale Road North Richmond	60	55	P	44	42	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0127	NCA06	1	288046	6281779	Residential	43 Grose Vale Road North Richmond	60	55	P	41	38	42	40	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0128	NCA06	1	288031	6281767	Residential	45 Grose Vale Road North Richmond	60	55	P	43	41	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0129	NCA06	1	288017	6281757	Residential	47 Grose Vale Road North Richmond	60	55	P	44	43	47	45	0.1	0	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0130	NCA06	1	288005	6281744	Residential	49 Grose Vale Road North Richmond	60	55	P	46	44	48	46	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0131	NCA06	1	287982	6281741	Residential	51 Grose Vale Road North Richmond	60	55	P	41	39	42	40	0	0	-	-	-	-	-	-	-	-
NCA06.RES.0131	NCA06	2	287982	6281741	Residential	51 Grose Vale Road North Richmond	60	55	P	45	43	50	47	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0132	NCA06	1	287996	6281717	Residential	51 Grose Vale Road North Richmond	60	55	P	47	45	52	49	0.2	0.1	-	-	-	-	-	-	-	-
NCA06.RES.0133	NCA06	1	287979	6281718	Residential	53 Grose Vale Road North Richmond	60	55	P	47	45	50	48	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0133	NCA06	2	287979	6281718	Residential	53 Grose Vale Road North Richmond	60	55	P	46	45	48	46	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0134	NCA06	1	287953	6281717	Residential	55 Grose Vale Road North Richmond	60	55	P	44	42	47	45	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0135	NCA06	1	287983	6281699	Residential	55 Grose Vale Road North Richmond	60	55	P	44	42	46	44	0.2	0.2	-	-	-	-	-	-	-	-
NCA06.RES.0136	NCA06	1	287936	6281711	Residential	57 Grose Vale Road North Richmond	60	55	P	43	41	47	45	0	0	-	-	-	-	-	-	-	-
NCA06.RES.0136	NCA06	2	287936	6281711	Residential	57 Grose Vale Road North Richmond	60	55	P	45	43	49	47	0	0	-	-	-	-	-	-	-	-
NCA06.RES.0137	NCA06	1	287932	6281682	Residential	59 Grose Vale Road North Richmond	60	55	P	43	41	45	43	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0138	NCA06	1	287916	6281666	Residential	61 Grose Vale Road North Richmond	60	55	P	44	42	45	43	0	0	-	-	-	-	-	-	-	-
NCA06.RES.0139	NCA06	1	287929	6281648	Residential	61 Grose Vale Road North Richmond	60	55	P	44	42	47	45	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0140	NCA06	1	287909	6281680	Residential	61 Grose Vale Road North Richmond	60	55	P	47	45	50	48	0	0	-	-	-	-	-	-	-	-
NCA06.RES.0141	NCA06	1	287906	6281658	Residential	63 Grose Vale Road North Richmond	60	55	P	44	42	46	44	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0142	NCA06	1	287900	6281641	Residential	65 Grose Vale Road North Richmond	60	55	P	44	42	47	44	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0143	NCA06	1	287874	6281636	Residential	67 Grose Vale Road North Richmond	60	55	P	46	44	48	46	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0144	NCA06	1	287867	6281628	Residential	69 Grose Vale Road North Richmond	60	55	P	44	42	46	44	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0144	NCA06	2	287867	6281628	Residential	69 Grose Vale Road North Richmond	60	55	P	46	44	49	47	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0145	NCA06	1	287841	6281620	Residential	71 Grose Vale Road North Richmond	60	55	P	41	39	43	41	0	0	-	-	-	-	-	-	-	-
NCA06.RES.0146	NCA06	1	287837	6281599	Residential	73 Grose Vale Road North Richmond	60	55	P	44	42	48	46	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0147	NCA06	1	288109	6281518	Residential	1 Keda Circuit North Richmond	60	55	P	43	41	45	43	1.2	1.1	-	-	-	-	-	-	-	-
NCA06.RES.0148	NCA06	1	288125	6281522	Residential	3 Keda Circuit North Richmond	60	55	P	45	43	48	45	1.4	1.3	-	-	-	-	-	-	-	-
NCA06.RES.0149	NCA06	1	288142	6281542	Residential	5 Keda Circuit North Richmond	60	55	P	47	45	50	48	1.2	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0150	NCA06	1	288157	6281551	Residential	7 Keda Circuit North Richmond	60	55	P	47	45	51	49	1.3	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0151	NCA06	1	288171	6281564	Residential	9 Keda Circuit North Richmond	60	54	P	49	47	53	50	1.1	1	-	-	-	-	-	-	-	-
NCA06.RES.0151	NCA06	2	288189	6281560	Residential	9 Keda Circuit North Richmond	60	55	P	42	40	44	42	3.3	3.2	-	-	-	-	-	-	-	-
NCA06.RES.0152	NCA06	1	288190	6281582	Residential	11 Keda Circuit North Richmond	60	55	P	43	41	45	43	4.1	4.1	-	-	-	-	-	-	-	-
NCA06.RES.0153	NCA06	1	288211	6281602	Residential	13 Keda Circuit North Richmond	60	55	P	44	42	46	44	4.5	4.5	-	-	-	-	-	-	-	-
NCA06.RES.0154	NCA06	1	288222	6281616	Residential	15 Keda Circuit North Richmond	60	55	P	46	44	48	46	4.5	4.5	-	-	-	-	-	-	-	-
NCA06.RES.0155	NCA06	1	288254	6281643	Residential	17 Keda Circuit North Richmond	60	55	P	42	40	44	42	3.5	3.5	-	-	-	-	-	-	-	-
NCA06.RES.0156	NCA06	1	288246	6281621	Residential	17 Keda Circuit North Richmond	60	55	P	42	41	44	42	3.7	3.7	-	-	-	-	-	-	-	-
NCA06.RES.0157	NCA06	1	288284	6281588	Residential	21 Keda Circuit North Richmond	59	54	P	42	40	47	44	4.2	4.2	-	-	-	-	-	-	-	-
NCA06.RES.0158	NCA06	1	288299	6281567	Residential	23 Keda Circuit North Richmond	59	54	P	38	36	40	38	5.1	5.2	-	-	-	-	-	-	-	-
NCA06.RES.0159	NCA06	1	288322	6281535	Residential	25 Keda Circuit North Richmond	58	53	P	41	39	43	41	6.4	6.3	-	-	-	-	-	-	-	-
NCA06.RES.0160	NCA06	1	288332	6281523	Residential	27 Keda Circuit North Richmond	57	52	P	64	59	63	59	6.5	6.3	-	-	-	-	-	-	-	-
NCA06.RES.0161	NCA06	1	288320	6281509	Residential	27 Keda Circuit North Richmond	57	52	P	65	61	65	61	7.7	7.6	-	-	-	-	-	-	-	-
NCA06.RES.0161	NCA06	2	288320	6281509	Residential	27 Keda Circuit North Richmond	57	52	P	46	40	48	42	7.5	7.3	-	-	-	-	-	-	-	-
NCA06.RES.0162	NCA06	1	288261	6281401	Residential	33 Keda Circuit North Richmond	57	52	P	46	41	49	43	8.5	8.4	-	-	-	-	-	-	-	-
NCA06.RES.0162	NCA06	2	288261	6281401	Residential	33 Keda Circuit North Richmond	57	52	P	48	43	51	45	7.7	7.7	-	-	-	-	-	-	-	-
NCA06.RES.0163	NCA06	1	288234	6281377	Residential	35 Keda Circuit North Richmond	57	52	P	46	41	48	43	8.7	8.5	-	-	-	-	-	-	-	-
NCA06.RES.0163	NCA06	2	288240	6281382	Residential	35 Keda Circuit North Richmond	57	52	P	47	41	52	46	8	7.9	-	-	-	-	-	-	-	-
NCA06.RES.0164	NCA06	1	288226	6281369	Residential	37 Keda Circuit North Richmond	57	52	P	46	40	47	41	8.6	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0164	NCA06	2	288226	6281369	Residential	37 Keda Circuit North Richmond	57	52	P	44	39	46	41	7.9	7.8	-	-	-	-	-	-	-	-
NCA06.RES.0165	NCA06	1	288212	6281355	Residential	39 Keda Circuit North Richmond	57	52	P	46	41	48	42	8.4	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0165	NCA06	2	288212	6281355	Residential	39 Keda Circuit North Richmond	57	52	P	48	43	50	45	7.7	7.7	-	-	-	-	-	-	-	-
NCA06.RES.0166	NCA06	1	288191	6281338	Residential	41 Keda Circuit North Richmond	57	52	P	50	45	53	47	7.7	7.6	-	-	-	-	-	-	-	-
NCA06.RES.0166	NCA06	2	288191	6281338	Residential	41 Keda Circuit North Richmond	57	52	P	52	46	55	50	7.8	7.7	-	-	-	-	-	-	-	-
NCA06.RES.0167	NCA06	1	288169	6281317	Residential	43 Keda Circuit North Richmond	57	52	P	44	39	46	41	7.9	7.8	-	-	-	-	-	-	-	-
NCA06.RES.0167	NCA06	2	288169	6281317	Residential	43 Keda Circuit North Richmond	57	52	P	48	43	53	48	7.4	7.3	-	-	-	-	-	-	-	-
NCA06.RES.0168	NCA06	1	288170	6281302	Residential	45 Keda Circuit North Richmond	56	51	P	49	44	53	47	8.2	8.1	-	-	-	-	-	-	-	-
NCA06.RES.0168	NCA06	2	288170	6281302	Residential	45 Keda Circuit North Richmond	56	51	P	43	38	45	40	7.7	7.7	-	-	-	-	-	-	-	-
NCA06.RES.0169	NCA06	1	288145	6281285	Residential	47 Keda Circuit North Richmond	57	52	P	45	40	47	42	7.8	7.7	-	-	-	-	-	-	-	-
NCA06.RES.0169	NCA06	2	288145	6281285	Residential	47 Keda Circuit North Richmond	57	52	P	44	39	46	41	7.6	7.6	-	-	-	-	-	-	-	-
NCA06.RES.0170	NCA06	1	288130	6281275	Residential	49 Keda Circuit North Richmond	57	52	P	43	38	45	40	7.1	7	-	-	-	-	-	-	-	-
NCA06.RES.0171	NCA06	1	288114	6281263	Residential	51 Keda Circuit North Richmond	56	51	P	46	41	48	43	5.2	5.2	-	-	-	-	-	-	-	-
NCA06.RES.0171	NCA06	2	288114	6281263	Residential	51 Keda Circuit North Richmond	56	51	P	47	43	50	45	6.5	6.5	-	-	-	-	-	-	-	-
NCA06.RES.0172	NCA06	1	288093	6281251	Residential	53 Keda Circuit North Richmond	57	52	P	45	40	47	42	5.4	5.2	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0172	NCA06	2	288101	6281254	Residential	53 Keda Circuit North Richmond	57	52	P	58	53	61	55	6.2	6.2	-	-	-	-	-	-	-	-
NCA06.RES.0173	NCA06	1	288099	6281237	Residential	55 Keda Circuit North Richmond	56	51	P	59	54	62	57	5.7	5.7	-	-	-	-	-	-	-	-
NCA06.RES.0174	NCA06	1	287924	6281488	Residential	135 Keda Circuit North Richmond	60	55	P	47	42	50	44	0.6	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0175	NCA06	1	287943	6281495	Residential	137 Keda Circuit North Richmond	60	55	P	47	42	50	44	0.4	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0176	NCA06	1	287956	6281503	Residential	139 Keda Circuit North Richmond	60	55	P	48	44	51	46	0.4	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0177	NCA06	1	287956	6281534	Residential	141B Keda Circuit North Richmond	60	55	P	51	46	55	49	0.4	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0178	NCA06	1	287977	6281497	Residential	141A Keda Circuit North Richmond	60	55	P	43	38	46	40	1.5	1.4	-	-	-	-	-	-	-	-
NCA06.RES.0179	NCA06	1	287981	6281547	Residential	143 Keda Circuit North Richmond	60	55	P	44	38	46	40	0.6	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0180	NCA06	1	288009	6281518	Residential	145 Keda Circuit North Richmond	60	55	P	44	39	46	41	1.1	1	-	-	-	-	-	-	-	-
NCA06.RES.0181	NCA06	1	288054	6281514	Residential	147 Keda Circuit North Richmond	60	54	P	40	35	42	37	1.9	1.9	-	-	-	-	-	-	-	-
NCA06.RES.0182	NCA06	1	288147	6281478	Residential	2 Keda Circuit North Richmond	60	54	P	46	40	48	43	1.3	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0183	NCA06	1	288179	6281480	Residential	4 Keda Circuit North Richmond	60	55	P	44	39	48	43	4	4	-	-	-	-	-	-	-	-
NCA06.RES.0184	NCA06	1	288188	6281480	Residential	6 Keda Circuit North Richmond	59	54	P	45	40	51	45	4.9	4.9	-	-	-	-	-	-	-	-
NCA06.RES.0185	NCA06	1	288203	6281503	Residential	8 Keda Circuit North Richmond	59	54	P	45	39	47	41	7.9	7.8	-	-	-	-	-	-	-	-
NCA06.RES.0185	NCA06	2	288207	6281511	Residential	8 Keda Circuit North Richmond	59	54	P	47	42	50	44	6	5.9	-	-	-	-	-	-	-	-
NCA06.RES.0186	NCA06	1	288220	6281517	Residential	10 Keda Circuit North Richmond	59	54	P	42	37	45	39	6	6.2	-	-	-	-	-	-	-	-
NCA06.RES.0187	NCA06	1	288234	6281528	Residential	12 Keda Circuit North Richmond	59	54	P	41	36	43	38	5.2	5.3	-	-	-	-	-	-	-	-
NCA06.RES.0188	NCA06	1	288255	6281542	Residential	14A Keda Circuit North Richmond	59	54	P	43	38	46	40	5.7	5.7	-	-	-	-	-	-	-	-
NCA06.RES.0189	NCA06	1	288246	6281555	Residential	14 Keda Circuit North Richmond	59	54	P	41	36	47	41	5.6	5.6	-	-	-	-	-	-	-	-
NCA06.RES.0189	NCA06	2	288246	6281555	Residential	14 Keda Circuit North Richmond	59	54	P	44	39	46	41	5.6	5.6	-	-	-	-	-	-	-	-
NCA06.RES.0190	NCA06	1	288266	6281491	Residential	16 Keda Circuit North Richmond	58	53	P	44	39	46	41	7.1	7	-	-	-	-	-	-	-	-
NCA06.RES.0191	NCA06	1	288262	6281472	Residential	18 Keda Circuit North Richmond	58	53	P	46	41	49	43	7.6	7.5	-	-	-	-	-	-	-	-
NCA06.RES.0192	NCA06	1	288254	6281457	Residential	20 Keda Circuit North Richmond	58	53	P	46	40	50	44	7.8	7.7	-	-	-	-	-	-	-	-
NCA06.RES.0193	NCA06	1	288234	6281436	Residential	22 Keda Circuit North Richmond	58	53	P	43	37	49	43	8.3	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0194	NCA06	1	288216	6281424	Residential	24 Keda Circuit North Richmond	58	53	P	44	39	46	41	11.3	11.3	-	-	-	-	-	-	-	-
NCA06.RES.0194	NCA06	2	288218	6281435	Residential	24 Keda Circuit North Richmond	58	53	P	42	36	46	40	7.2	7.1	-	-	-	-	-	-	-	-
NCA06.RES.0195	NCA06	1	288199	6281413	Residential	26 Keda Circuit North Richmond	58	53	P	44	39	48	43	8.8	8.8	-	-	-	-	-	-	-	-
NCA06.RES.0196	NCA06	1	288116	6281353	Residential	30 Keda Circuit North Richmond	54	49	P	43	38	45	40	1.2	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0196	NCA06	2	288116	6281353	Residential	30 Keda Circuit North Richmond	57	51	P	45	39	45	39	2.2	2.2	-	-	-	-	-	-	-	-
NCA06.RES.0197	NCA06	1	288099	6281343	Residential	32 Keda Circuit North Richmond	54	49	P	42	37	42	36	1.1	1	-	-	-	-	-	-	-	-
NCA06.RES.0197	NCA06	2	288109	6281332	Residential	32 Keda Circuit North Richmond	56	51	P	44	39	45	39	2.4	2.4	-	-	-	-	-	-	-	-
NCA06.RES.0198	NCA06	1	288077	6281309	Residential	36 Keda Circuit North Richmond	53	47	P	41	35	41	35	1.3	1.3	-	-	-	-	-	-	-	-
NCA06.RES.0198	NCA06	2	288077	6281309	Residential	36 Keda Circuit North Richmond	55	50	P	43	38	44	38	2.4	2.3	-	-	-	-	-	-	-	-
NCA06.RES.0199	NCA06	1	288064	6281313	Residential	38 Keda Circuit North Richmond	52	47	P	40	35	41	35	1.5	1.5	-	-	-	-	-	-	-	-
NCA06.RES.0199	NCA06	2	288071	6281295	Residential	38 Keda Circuit North Richmond	54	49	P	42	37	43	37	3.2	3.2	-	-	-	-	-	-	-	-
NCA06.RES.0200	NCA06	1	287970	6281428	Residential	82 Keda Circuit North Richmond	53	48	P	41	36	42	36	2.1	2	-	-	-	-	-	-	-	-
NCA06.RES.0201	NCA06	1	287984	6281439	Residential	84 Keda Circuit North Richmond	54	48	P	42	36	44	38	4.9	4.7	-	-	-	-	-	-	-	-
NCA06.RES.0201	NCA06	2	287973	6281430	Residential	84 Keda Circuit North Richmond	57	51	P	45	39	47	41	3	3	-	-	-	-	-	-	-	-
NCA06.RES.0201	NCA06	3	287973	6281430	Residential	84 Keda Circuit North Richmond	58	53	P	47	41	48	42	2.7	2.7	-	-	-	-	-	-	-	-
NCA06.RES.0202	NCA06	1	287994	6281448	Residential	86 Keda Circuit North Richmond	55	49	P	43	37	43	37	1.3	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0202	NCA06	2	288006	6281442	Residential	86 Keda Circuit North Richmond	57	52	P	45	40	47	41	3.4	3.3	-	-	-	-	-	-	-	-
NCA06.RES.0203	NCA06	1	288015	6281435	Residential	88 Keda Circuit North Richmond	54	49	P	42	37	43	37	1.4	1.3	-	-	-	-	-	-	-	-
NCA06.RES.0203	NCA06	2	288015	6281435	Residential	88 Keda Circuit North Richmond	57	51	P	45	39	46	40	2.5	2.5	-	-	-	-	-	-	-	-
NCA06.RES.0205	NCA06	1	288050	6281466	Residential	92 Keda Circuit North Richmond	56	51	P	44	39	45	39	1.1	1.1	-	-	-	-	-	-	-	-
NCA06.RES.0205	NCA06	2	288054	6281449	Residential	92 Keda Circuit North Richmond	58	52	P	46	40	47	41	2.6	2.5	-	-	-	-	-	-	-	-
NCA06.RES.0206	NCA06	1	288073	6281483	Residential	94 Keda Circuit North Richmond	60	54	P	48	42	48	42	1.4	1.4	-	-	-	-	-	-	-	-
NCA06.RES.0206	NCA06	2	288073	6281483	Residential	94 Keda Circuit North Richmond	60	55	P	49	43	50	44	1.4	1.4	-	-	-	-	-	-	-	-
NCA06.RES.0207	NCA06	1	287972	6281595	Residential	2 Matheson Avenue North Richmond	60	55	P	54	48	54	48	0.3	0.2	-	-	-	-	-	-	-	-
NCA06.RES.0208	NCA06	1	288003	6281574	Residential	6 Matheson Avenue North Richmond	60	55	P	52	46	52	46	0.6	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0209	NCA06	1	288009	6281557	Residential	8 Matheson Avenue North Richmond	60	55	P	49	43	50	43	0.8	0.7	-	-	-	-	-	-	-	-
NCA06.RES.0210	NCA06	1	288023	6281546	Residential	10 Matheson Avenue North Richmond	60	55	P	50	44	50	44	1.1	1.1	-	-	-	-	-	-	-	-
NCA06.RES.0211	NCA06	1	288044	6281529	Residential	12 Matheson Avenue North Richmond	60	55	P	49	43	49	43	1.8	1.8	-	-	-	-	-	-	-	-
NCA06.RES.0212	NCA06	1	288089	6281455	Residential	18 Matheson Avenue North Richmond	56	51	P	44	39	44	39	0.7	0.7	-	-	-	-	-	-	-	-
NCA06.RES.0212	NCA06	2	288102	6281465	Residential	18 Matheson Avenue North Richmond	59	53	P	47	41	47	41	2.4	2.4	-	-	-	-	-	-	-	-
NCA06.RES.0213	NCA06	1	288123	6281445	Residential	20 Matheson Avenue North Richmond	56	50	P	44	38	44	38	2.6	2.5	-	-	-	-	-	-	-	-
NCA06.RES.0213	NCA06	2	288123	6281445	Residential	20 Matheson Avenue North Richmond	58	52	P	46	40	47	41	3	3	-	-	-	-	-	-	-	-
NCA06.RES.0214	NCA06	1	288132	6281433	Residential	22 Matheson Avenue North Richmond	56	50	P	44	38	45	39	3.5	3.5	-	-	-	-	-	-	-	-
NCA06.RES.0215	NCA06	1	288143	6281420	Residential	24 Matheson Avenue North Richmond	56	50	P	44	38	44	38	3.3	3.3	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0215	NCA06	2	288143	6281420	Residential	24 Matheson Avenue North Richmond	58	53	P	47	41	48	42	3.9	4	-	-	-	-	-	-	-	-
NCA06.RES.0216	NCA06	1	288162	6281399	Residential	26 Matheson Avenue North Richmond	57	52	P	45	40	46	40	4.9	5	-	-	-	-	-	-	-	-
NCA06.RES.0217	NCA06	1	288171	6281388	Residential	28 Matheson Avenue North Richmond	58	52	P	46	40	47	41	5.5	5.6	-	-	-	-	-	-	-	-
NCA06.RES.0218	NCA06	1	288585	6281766	Residential	3 Pitt Lane North Richmond	60	55	P	64	58	64	58	21.2	21.2	-	-	-	-	-	-	-	-
NCA06.RES.0218	NCA06	2	288585	6281766	Residential	3 Pitt Lane North Richmond	60	55	P	66	60	66	60	19.6	19.6	-	-	Y	Y	Y	Y	Y	Y
NCA06.RES.0219	NCA06	1	288545	6281765	Residential	5 Pitt Lane North Richmond	60	55	P	53	47	53	47	13	13	-	-	-	-	-	-	-	-
NCA06.RES.0219	NCA06	2	288545	6281765	Residential	5 Pitt Lane North Richmond	60	55	P	56	50	57	51	13.6	13.6	-	-	-	-	-	-	-	-
NCA06.RES.0220	NCA06	1	288560	6281746	Residential	5 Pitt Lane North Richmond	60	55	P	55	49	55	49	18.7	18.9	-	-	-	-	-	-	-	-
NCA06.RES.0220	NCA06	2	288560	6281746	Residential	5 Pitt Lane North Richmond	60	55	P	58	52	58	53	15.1	15.2	-	-	-	-	-	-	-	-
NCA06.RES.0221	NCA06	1	288551	6281761	Residential	5 Pitt Lane North Richmond	60	55	P	52	46	52	46	12	12.1	-	-	-	-	-	-	-	-
NCA06.RES.0221	NCA06	2	288551	6281761	Residential	5 Pitt Lane North Richmond	60	55	P	55	49	56	50	12.9	12.9	-	-	-	-	-	-	-	-
NCA06.RES.0222	NCA06	1	288557	6281757	Residential	5 Pitt Lane North Richmond	60	55	P	51	45	51	45	11.6	11.6	-	-	-	-	-	-	-	-
NCA06.RES.0222	NCA06	2	288557	6281757	Residential	5 Pitt Lane North Richmond	60	55	P	55	49	55	49	12.2	12.3	-	-	-	-	-	-	-	-
NCA06.RES.0223	NCA06	1	288525	6281773	Residential	5 Pitt Lane North Richmond	60	55	P	54	48	54	48	11.8	11.9	-	-	-	-	-	-	-	-
NCA06.RES.0224	NCA06	1	288544	6281780	Residential	5 Pitt Lane North Richmond	60	55	P	56	50	56	51	14.3	14.4	-	-	-	-	-	-	-	-
NCA06.RES.0225	NCA06	1	288460	6281681	Residential	19 Pitt Lane North Richmond	60	55	P	49	43	50	45	10	10	-	-	-	-	-	-	-	-
NCA06.RES.0225	NCA06	2	288460	6281681	Residential	19 Pitt Lane North Richmond	60	55	P	54	48	55	49	7.7	7.5	-	-	-	-	-	-	-	-
NCA06.RES.0226	NCA06	1	288437	6281635	Residential	21 Pitt Lane North Richmond	59	54	P	54	49	55	49	8.4	8.3	-	-	-	-	-	-	-	-
NCA06.RES.0226	NCA06	2	288439	6281647	Residential	21 Pitt Lane North Richmond	59	54	P	56	50	56	50	7.7	7.7	-	-	-	-	-	-	-	-
NCA06.RES.0227	NCA06	1	288448	6281726	Residential	1/1 Riverview Street North Richmond	60	55	P	49	44	50	44	12.7	12.7	-	-	-	-	-	-	-	-
NCA06.RES.0227	NCA06	2	288448	6281726	Residential	1/1 Riverview Street North Richmond	60	55	P	52	46	53	47	10.6	10.7	-	-	-	-	-	-	-	-
NCA06.RES.0228	NCA06	1	288460	6281737	Residential	1 Riverview Street North Richmond	60	55	P	53	47	53	47	10.2	9.9	-	-	-	-	-	-	-	-
NCA06.RES.0228	NCA06	2	288460	6281737	Residential	1 Riverview Street North Richmond	60	55	P	54	49	55	49	9.3	9.1	-	-	-	-	-	-	-	-
NCA06.RES.0229	NCA06	1	288473	6281756	Residential	1 Riverview Street North Richmond	60	55	P	51	46	52	46	7.3	7.4	-	-	-	-	-	-	-	-
NCA06.RES.0229	NCA06	2	288473	6281756	Residential	1 Riverview Street North Richmond	60	55	P	54	48	55	49	7.3	7.3	-	-	-	-	-	-	-	-
NCA06.RES.0230	NCA06	1	288465	6281764	Residential	3A Riverview Street North Richmond	60	55	P	51	45	51	45	6.5	6.5	-	-	-	-	-	-	-	-
NCA06.RES.0230	NCA06	2	288465	6281764	Residential	3A Riverview Street North Richmond	60	55	P	53	47	54	49	6.6	6.7	-	-	-	-	-	-	-	-
NCA06.RES.0231	NCA06	1	288435	6281771	Residential	5 Riverview Street North Richmond	60	55	P	49	43	49	43	5.2	5.2	-	-	-	-	-	-	-	-
NCA06.RES.0232	NCA06	1	288453	6281779	Residential	3/5 Riverview Street North Richmond	60	55	P	51	45	51	46	5.6	5.7	-	-	-	-	-	-	-	-
NCA06.RES.0233	NCA06	1	288440	6281792	Residential	7 Riverview Street North Richmond	60	55	P	50	45	51	45	5.6	5.6	-	-	-	-	-	-	-	-
NCA06.RES.0234	NCA06	1	288430	6281801	Residential	9 Riverview Street North Richmond	60	55	P	50	44	51	45	6.1	6	-	-	-	-	-	-	-	-
NCA06.RES.0235	NCA06	1	288413	6281784	Residential	9 Riverview Street North Richmond	60	55	P	50	44	50	44	5.1	5.2	-	-	-	-	-	-	-	-
NCA06.RES.0236	NCA06	1	288421	6281819	Residential	11 Riverview Street North Richmond	60	55	P	51	45	51	46	4.3	4.3	-	-	-	-	-	-	-	-
NCA06.RES.0237	NCA06	1	288409	6281825	Residential	13 Riverview Street North Richmond	60	55	P	50	44	50	44	5.1	5.1	-	-	-	-	-	-	-	-
NCA06.RES.0239	NCA06	1	288390	6281846	Residential	17 Riverview Street North Richmond	60	55	P	52	46	52	47	7.3	7.1	-	-	-	-	-	-	-	-
NCA06.RES.0241	NCA06	1	288362	6281863	Residential	21 Riverview Street North Richmond	60	55	P	52	46	52	47	6.5	6.4	-	-	-	-	-	-	-	-
NCA06.RES.0242	NCA06	1	288328	6281858	Residential	23 Riverview Street North Richmond	60	55	P	49	43	49	43	2.9	2.8	-	-	-	-	-	-	-	-
NCA06.RES.0243	NCA06	1	288362	6281881	Residential	23 Riverview Street North Richmond	60	55	P	53	48	54	48	4	3.8	-	-	-	-	-	-	-	-
NCA06.RES.0244	NCA06	1	288340	6281864	Residential	23 Riverview Street North Richmond	60	55	P	50	44	50	44	4.3	4.1	-	-	-	-	-	-	-	-
NCA06.RES.0245	NCA06	1	288357	6281868	Residential	23 Riverview Street North Richmond	60	55	P	51	46	52	46	7.3	7.2	-	-	-	-	-	-	-	-
NCA06.RES.0246	NCA06	1	288347	6281897	Residential	25 Riverview Street North Richmond	60	55	P	53	47	53	48	2.5	2.3	-	-	-	-	-	-	-	-
NCA06.RES.0247	NCA06	1	288334	6281908	Residential	27 Riverview Street North Richmond	60	55	P	52	47	53	47	2.5	2.2	-	-	-	-	-	-	-	-
NCA06.RES.0248	NCA06	1	288298	6281903	Residential	29 Riverview Street North Richmond	60	55	P	50	44	50	45	1.9	1.7	-	-	-	-	-	-	-	-
NCA06.RES.0248	NCA06	2	288290	6281903	Residential	29 Riverview Street North Richmond	60	55	P	55	49	55	50	1.3	1.1	-	-	-	-	-	-	-	-
NCA06.RES.0249	NCA06	1	288310	6281912	Residential	29 Riverview Street North Richmond	60	55	P	53	48	54	48	1	0.8	-	-	-	-	-	-	-	-
NCA06.RES.0249	NCA06	2	288299	6281912	Residential	29 Riverview Street North Richmond	60	55	P	56	50	56	51	1.2	1	-	-	-	-	-	-	-	-
NCA06.RES.0250	NCA06	1	288323	6281924	Residential	29 Riverview Street North Richmond	60	55	P	54	49	55	49	1.6	1.3	-	-	-	-	-	-	-	-
NCA06.RES.0250	NCA06	2	288323	6281924	Residential	29 Riverview Street North Richmond	60	55	P	56	50	56	51	1.5	1.3	-	-	-	-	-	-	-	-
NCA06.RES.0252	NCA06	1	288296	6281955	Residential	35 Riverview Street North Richmond	60	55	P	58	53	59	54	0.6	0.4	-	-	-	-	-	-	-	-
NCA06.RES.0253	NCA06	1	288635	6281713	Residential	3/5 Shortland Cl North Richmond	59	54	P	67	61	63	57	19	18.9	-	-	-	-	-	-	-	-
NCA06.RES.0253	NCA06	2	288635	6281713	Residential	3/5 Shortland Cl North Richmond	59	54	P	68	63	65	60	20.1	20.1	-	-	Y	Y	Y	Y	Y	Y
NCA06.RES.0254	NCA06	1	288589	6281720	Residential	3 Shortland Close North Richmond	59	54	P	59	53	58	53	21.4	21.5	-	-	-	-	-	-	-	-
NCA06.RES.0254	NCA06	2	288589	6281720	Residential	3 Shortland Close North Richmond	59	54	P	61	55	60	54	17.8	17.8	-	-	-	-	-	-	-	-
NCA06.RES.0255	NCA06	1	288592	6281733	Residential	3 Shortland Close North Richmond	60	55	P	58	52	58	52	20.3	20.2	-	-	-	-	-	-	-	-
NCA06.RES.0255	NCA06	2	288592	6281733	Residential	3 Shortland Close North Richmond	60	55	P	61	56	61	55	15.3	15.1	-	-	-	-	-	-	-	-
NCA06.RES.0256	NCA06	1	288559	6281741	Residential	3 Shortland Close North Richmond	60	55	P	53	48	53	47	15.5	15.8	-	-	-	-	-	-	-	-
NCA06.RES.0256	NCA06	2	288570	6281734	Residential	3 Shortland Close North Richmond	60	55	P	56	50	57	51	12.8	12.7	-	-	-	-	-	-	-	-
NCA06.RES.0257	NCA06	1	288585	6281750	Residential	3 Shortland Close North Richmond	60	55	P	58	53	58	52	19.8	19.7	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0257	NCA06	2	288585	6281750	Residential	3 Shortland Close North Richmond	60	55	P	61	56	62	56	16.8	16.7	-	-	-	-	-	-	-	-
NCA06.RES.0258	NCA06	1	288613	6281714	Residential	3 Shortland Close North Richmond	59	54	P	63	57	62	56	23.2	23.3	-	-	-	-	-	-	-	-
NCA06.RES.0258	NCA06	2	288613	6281714	Residential	3 Shortland Close North Richmond	59	54	P	64	59	63	58	20.7	20.8	-	-	-	-	-	-	-	-
NCA06.RES.0259	NCA06	1	288599	6281671	Residential	9 Shortland Close North Richmond	57	52	P	61	55	59	53	16.6	16.6	-	-	-	-	-	-	-	-
NCA06.RES.0259	NCA06	2	288599	6281671	Residential	9 Shortland Close North Richmond	57	52	P	62	56	60	54	14.7	14.5	-	-	-	-	-	-	-	-
NCA06.RES.0260	NCA06	1	288580	6281643	Residential	11A Shortland Close North Richmond	56	51	P	59	54	57	52	15.9	15.7	-	-	-	-	-	-	-	-
NCA06.RES.0260	NCA06	2	288580	6281643	Residential	11A Shortland Close North Richmond	56	51	P	60	54	58	52	13.4	13.3	-	-	-	-	-	-	-	-
NCA06.RES.0261	NCA06	1	288229	6281909	Residential	1 Sunnyside Crescent North Richmond	60	55	P	55	49	55	49	0.4	0.3	-	-	-	-	-	-	-	-
NCA06.RES.0262	NCA06	1	288209	6281939	Residential	1C Sunnyside Crescent North Richmond	60	55	P	68	63	69	63	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0262	NCA06	2	288209	6281939	Residential	1C Sunnyside Crescent North Richmond	60	55	P	69	63	69	64	0.1	0	-	-	-	-	-	-	-	-
NCA06.RES.0263	NCA06	1	288243	6281897	Residential	3 Sunnyside Crescent North Richmond	60	55	P	53	47	53	47	0.5	0.5	-	-	-	-	-	-	-	-
NCA06.RES.0264	NCA06	1	288260	6281893	Residential	5 Sunnyside Crescent North Richmond	60	55	P	52	47	53	47	1.8	1.6	-	-	-	-	-	-	-	-
NCA06.RES.0265	NCA06	1	288276	6281881	Residential	7 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	2.4	2.2	-	-	-	-	-	-	-	-
NCA06.RES.0266	NCA06	1	288281	6281863	Residential	9 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA06.RES.0267	NCA06	1	288299	6281851	Residential	11 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	3.8	3.7	-	-	-	-	-	-	-	-
NCA06.RES.0268	NCA06	1	288318	6281836	Residential	13 Sunnyside Crescent North Richmond	60	55	P	50	44	51	45	3.9	3.8	-	-	-	-	-	-	-	-
NCA06.RES.0269	NCA06	1	288321	6281825	Residential	15 Sunnyside Crescent North Richmond	60	55	P	49	43	50	44	3.4	3.3	-	-	-	-	-	-	-	-
NCA06.RES.0270	NCA06	1	288334	6281811	Residential	17 Sunnyside Crescent North Richmond	60	55	P	50	44	50	45	5.4	5.2	-	-	-	-	-	-	-	-
NCA06.RES.0271	NCA06	1	288339	6281789	Residential	19 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	5.8	5.6	-	-	-	-	-	-	-	-
NCA06.RES.0272	NCA06	1	288333	6281774	Residential	21 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	3.7	3.7	-	-	-	-	-	-	-	-
NCA06.RES.0273	NCA06	1	288321	6281760	Residential	23 Sunnyside Crescent North Richmond	60	55	P	50	44	51	45	3.3	3.3	-	-	-	-	-	-	-	-
NCA06.RES.0274	NCA06	1	288309	6281751	Residential	25 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	3.7	3.7	-	-	-	-	-	-	-	-
NCA06.RES.0275	NCA06	1	288296	6281733	Residential	27 Sunnyside Crescent North Richmond	60	55	P	49	43	50	44	4.1	4.1	-	-	-	-	-	-	-	-
NCA06.RES.0276	NCA06	1	288275	6281726	Residential	29 Sunnyside Crescent North Richmond	60	55	P	48	43	49	43	2.7	2.6	-	-	-	-	-	-	-	-
NCA06.RES.0277	NCA06	1	288269	6281712	Residential	31 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	3.9	3.9	-	-	-	-	-	-	-	-
NCA06.RES.0278	NCA06	1	288254	6281695	Residential	33 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	3.9	3.8	-	-	-	-	-	-	-	-
NCA06.RES.0279	NCA06	1	288240	6281687	Residential	35 Sunnyside Crescent North Richmond	60	55	P	49	43	50	44	3.5	3.5	-	-	-	-	-	-	-	-
NCA06.RES.0280	NCA06	1	288219	6281678	Residential	37 Sunnyside Crescent North Richmond	60	55	P	49	44	50	44	1.8	1.8	-	-	-	-	-	-	-	-
NCA06.RES.0281	NCA06	1	288204	6281662	Residential	39 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	1.7	1.7	-	-	-	-	-	-	-	-
NCA06.RES.0282	NCA06	1	288192	6281652	Residential	41 Sunnyside Crescent North Richmond	60	55	P	50	44	51	44	1.5	1.4	-	-	-	-	-	-	-	-
NCA06.RES.0283	NCA06	1	288176	6281637	Residential	43 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	1.2	1.2	-	-	-	-	-	-	-	-
NCA06.RES.0284	NCA06	1	288159	6281627	Residential	45 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	1	1	-	-	-	-	-	-	-	-
NCA06.RES.0285	NCA06	1	288149	6281614	Residential	47 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	1	1	-	-	-	-	-	-	-	-
NCA06.RES.0286	NCA06	1	288137	6281603	Residential	49 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	1	0.9	-	-	-	-	-	-	-	-
NCA06.RES.0287	NCA06	1	288124	6281589	Residential	51 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	1	0.9	-	-	-	-	-	-	-	-
NCA06.RES.0288	NCA06	1	288107	6281579	Residential	53 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	0.9	0.8	-	-	-	-	-	-	-	-
NCA06.RES.0289	NCA06	1	288094	6281566	Residential	55 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	0.9	0.8	-	-	-	-	-	-	-	-
NCA06.RES.0290	NCA06	1	288078	6281555	Residential	57 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	0.9	0.8	-	-	-	-	-	-	-	-
NCA06.RES.0291	NCA06	1	288258	6281826	Residential	4 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	2.1	2.1	-	-	-	-	-	-	-	-
NCA06.RES.0292	NCA06	1	288280	6281800	Residential	4 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	3	2.9	-	-	-	-	-	-	-	-
NCA06.RES.0292	NCA06	2	288290	6281792	Residential	4 Sunnyside Crescent North Richmond	60	55	P	53	47	53	47	3.3	3.3	-	-	-	-	-	-	-	-
NCA06.RES.0293	NCA06	1	288265	6281786	Residential	10 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	1.7	1.6	-	-	-	-	-	-	-	-
NCA06.RES.0293	NCA06	2	288265	6281786	Residential	10 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	2.1	2	-	-	-	-	-	-	-	-
NCA06.RES.0294	NCA06	1	288249	6281774	Residential	10 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	1.8	1.7	-	-	-	-	-	-	-	-
NCA06.RES.0294	NCA06	2	288249	6281774	Residential	10 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	2.1	1.9	-	-	-	-	-	-	-	-
NCA06.RES.0295	NCA06	1	288215	6281744	Residential	14 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	1.7	1.7	-	-	-	-	-	-	-	-
NCA06.RES.0296	NCA06	1	288220	6281763	Residential	14 Sunnyside Crescent North Richmond	60	55	P	49	43	49	43	1.7	1.6	-	-	-	-	-	-	-	-
NCA06.RES.0296	NCA06	2	288220	6281763	Residential	14 Sunnyside Crescent North Richmond	60	55	P	52	46	53	47	1.6	1.6	-	-	-	-	-	-	-	-
NCA06.RES.0297	NCA06	1	288231	6281757	Residential	14 Sunnyside Crescent North Richmond	60	54	P	48	42	48	42	1.9	1.8	-	-	-	-	-	-	-	-
NCA06.RES.0297	NCA06	2	288243	6281757	Residential	14 Sunnyside Crescent North Richmond	60	55	P	52	46	52	46	3.4	3.3	-	-	-	-	-	-	-	-
NCA06.RES.0298	NCA06	1	288212	6281730	Residential	16 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	2.9	2.9	-	-	-	-	-	-	-	-
NCA06.RES.0299	NCA06	1	288190	6281720	Residential	18 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	2.2	2.2	-	-	-	-	-	-	-	-
NCA06.RES.0300	NCA06	1	288170	6281703	Residential	20 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	1.4	1.4	-	-	-	-	-	-	-	-
NCA06.RES.0301	NCA06	1	288160	6281693	Residential	22 Sunnyside Crescent North Richmond	60	55	P	51	45	51	45	1.4	1.3	-	-	-	-	-	-	-	-
NCA06.RES.0302	NCA06	1	288148	6281680	Residential	24 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	1.6	1.5	-	-	-	-	-	-	-	-
NCA06.RES.0303	NCA06	1	288129	6281671	Residential	26 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	0.9	0.9	-	-	-	-	-	-	-	-
NCA06.RES.0304	NCA06	1	288116	6281653	Residential	28 Sunnyside Crescent North Richmond	60	55	P	49	44	50	44	1	0.9	-	-	-	-	-	-	-	-
NCA06.RES.0305	NCA06	1	288095	6281644	Residential	30 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	0.6	0.6	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA06.RES.0306	NCA06	1	288093	6281632	Residential	32 Sunnyside Crescent North Richmond	60	54	P	48	42	49	42	1.6	1.6	-	-	-	-	-	-	-	-
NCA06.RES.0307	NCA06	1	288070	6281622	Residential	34 Sunnyside Crescent North Richmond	60	55	P	50	45	51	45	0.6	0.6	-	-	-	-	-	-	-	-
NCA06.RES.0308	NCA06	1	288060	6281605	Residential	36 Sunnyside Crescent North Richmond	60	55	P	50	44	50	44	0.9	0.8	-	-	-	-	-	-	-	-
NCA06.RES.0309	NCA06	1	288047	6281598	Residential	38 Sunnyside Crescent North Richmond	60	55	P	51	45	52	45	0.8	0.7	-	-	-	-	-	-	-	-
NCA07.OOA.0001	NCA07	1	289015	6280790	Other (Outdoor Active)	118 Inalls Lane Richmond	60	-	P	54	49	55	50	13.5	13.4	-	-	-	-	-	-	-	-
NCA07.OOA.0002	NCA07	1	290140	6280853	Other (Outdoor Active)	5 Old Kurrajong Road Richmond	60	-	P	57	51	57	51	0.6	0.5	-	-	-	-	-	-	-	-
NCA07.OOA.0005	NCA07	1	289568	6281226	Other (Outdoor Active)	100 Old Kurrajong Road Richmond	60	-	P	55	49	55	49	7.8	7.7	-	-	-	-	-	-	-	-
NCA07.RES.0003	NCA07	1	289983	6281075	Residential	33 Old Kurrajong Road Richmond	60	55	P	55	49	55	49	2	1.9	-	-	-	-	-	-	-	-
NCA07.RES.0004	NCA07	1	290052	6281229	Residential	49 Old Kurrajong Road Richmond	60	55	P	51	45	51	46	2.7	2.6	-	-	-	-	-	-	-	-
NCA07.RES.0006	NCA07	1	289262	6281692	Residential	122 Old Kurrajong Road Richmond	56	51	P	52	46	52	46	7	6.9	-	-	-	-	-	-	-	-
NCA07.RES.0007	NCA07	1	289295	6281689	Residential	122 Old Kurrajong Road Richmond	57	52	P	52	46	53	47	8.2	8	-	-	-	-	-	-	-	-
NCA07.RES.0008	NCA07	1	289265	6281660	Residential	122 Old Kurrajong Road Richmond	57	52	P	53	47	54	48	8.6	8.4	-	-	-	-	-	-	-	-
NCA07.RES.0009	NCA07	1	289227	6281633	Residential	136 Old Kurrajong Road Richmond	56	51	P	52	47	54	49	9.7	9.6	-	-	-	-	-	-	-	-
NCA07.RES.0010	NCA07	1	289206	6281636	Residential	136 Old Kurrajong Road Richmond	56	51	P	54	48	55	49	11.2	11.1	-	-	-	-	-	-	-	-
NCA07.RES.0010	NCA07	2	289206	6281636	Residential	136 Old Kurrajong Road Richmond	56	51	P	55	49	56	50	11.1	11	-	-	-	-	-	-	-	-
NCA07.RES.0011	NCA07	1	289106	6281550	Residential	148 Old Kurrajong Road Richmond	55	50	P	56	50	58	53	14.3	14.2	Y	Y	-	-	-	-	Y	Y
NCA07.RES.0012	NCA07	1	289108	6281569	Residential	148 Old Kurrajong Road Richmond	55	50	P	54	49	56	50	15.7	15.7	-	-	-	-	-	-	-	-
NCA07.RES.0013	NCA07	1	288827	6281339	Residential	170 Old Kurrajong Road Richmond	55	50	P	56	50	57	52	13.2	13.2	-	-	-	-	-	-	-	-
NCA07.RES.0014	NCA07	1	288838	6281350	Residential	170 Old Kurrajong Road Richmond	55	50	P	56	51	58	52	14.1	14.1	-	-	-	-	-	-	-	-
NCA07.RES.0015	NCA07	1	288791	6281322	Residential	2 Yarramundi Lane Richmond	55	50	P	59	53	57	52	12.9	12.8	-	-	-	-	-	-	-	-
NCA07.RES.0016	NCA07	1	288759	6281286	Residential	2 Yarramundi Lane Richmond	55	50	P	56	50	56	50	11.5	11.5	-	-	-	-	-	-	-	-
NCA07.RES.0017	NCA07	1	288584	6281154	Residential	22 Yarramundi Lane Richmond	56	51	P	53	47	53	48	10.3	10.2	-	-	-	-	-	-	-	-
NCA07.RES.0018	NCA07	1	288516	6281092	Residential	22 Yarramundi Lane Richmond	56	51	P	52	46	52	46	9.1	8.9	-	-	-	-	-	-	-	-
NCA08.OPW.0002	NCA08	1	289653	6279694	Other (Place of Worship)	Castlereagh Road Richmond	50	50	H	61	58	69	66	19.2	19	Y	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0001	NCA08	1	288379	6281001	Residential	42 Yarramundi Lane Agnes Banks	56	51	P	50	45	51	45	8.7	8.6	-	-	-	-	-	-	-	-
NCA08.RES.0003	NCA08	1	289472	6279864	Residential	3 Drift Road Richmond	55	50	P	62	53	62	56	13.8	12.1	Y	Y	Y	Y	-	-	Y	Y
NCA08.RES.0004	NCA08	1	289458	6279851	Residential	5 Drift Road Richmond	55	50	P	61	53	61	55	11.6	9.5	-	Y	Y	Y	-	-	Y	Y
NCA08.RES.0004	NCA08	2	289473	6279847	Residential	5 Drift Road Richmond	55	50	P	57	50	63	56	16	15.3	Y	Y	Y	Y	-	-	Y	Y
NCA08.RES.0005	NCA08	1	289439	6279835	Residential	7 Drift Road Richmond	55	50	P	62	53	60	54	8.5	6.4	-	Y	Y	-	-	-	Y	-
NCA08.RES.0005	NCA08	2	289439	6279835	Residential	7 Drift Road Richmond	55	50	P	63	54	61	55	8.1	6	-	Y	Y	Y	-	-	Y	-
NCA08.RES.0006	NCA08	1	289417	6279778	Residential	15 Drift Road Richmond	55	50	P	54	47	55	49	7.7	6.5	-	-	-	-	-	-	-	-
NCA08.RES.0007	NCA08	1	289393	6279778	Residential	19 Drift Road Richmond	55	50	P	57	49	56	50	6.3	5.1	-	-	-	-	-	-	-	-
NCA08.RES.0008	NCA08	1	289362	6279770	Residential	21 Drift Road Richmond	57	52	P	62	53	56	52	3.5	2.2	-	-	-	-	-	-	-	-
NCA08.RES.0009	NCA08	1	289334	6279739	Residential	23 Drift Road Richmond	58	53	P	60	52	55	50	2.9	1.9	-	-	-	-	-	-	-	-
NCA08.RES.0010	NCA08	1	289324	6279731	Residential	25 Drift Road Richmond	58	53	P	61	52	55	50	2.6	1.7	-	-	-	-	-	-	-	-
NCA08.RES.0011	NCA08	1	289305	6279713	Residential	27 Drift Road Richmond	59	54	P	60	52	54	50	2.2	1.4	-	-	-	-	-	-	-	-
NCA08.RES.0012	NCA08	1	289291	6279701	Residential	29 Drift Road Richmond	59	54	P	61	52	55	50	2.3	1.4	-	-	-	-	-	-	-	-
NCA08.RES.0013	NCA08	1	289277	6279688	Residential	31 Drift Road Richmond	60	55	P	61	52	55	50	2.2	1.3	-	-	-	-	-	-	-	-
NCA08.RES.0014	NCA08	1	289267	6279678	Residential	35 Drift Road Richmond	60	55	P	61	52	55	50	2.1	1.3	-	-	-	-	-	-	-	-
NCA08.RES.0015	NCA08	1	289238	6279652	Residential	39 Drift Road Richmond	60	55	P	60	52	54	50	1.7	1.1	-	-	-	-	-	-	-	-
NCA08.RES.0016	NCA08	1	289214	6279631	Residential	43 Drift Road Richmond	60	55	P	60	52	54	50	1.4	0.9	-	-	-	-	-	-	-	-
NCA08.RES.0017	NCA08	1	289250	6279588	Residential	47 Drift Road Richmond	60	55	P	59	53	61	55	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0017	NCA08	2	289250	6279588	Residential	47 Drift Road Richmond	60	55	P	62	56	63	57	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0018	NCA08	1	289240	6279576	Residential	51 Drift Road Richmond	60	55	P	63	57	64	58	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0019	NCA08	1	289198	6279616	Residential	55 Drift Road Richmond	60	55	P	60	52	55	50	1.1	0.7	-	-	-	-	-	-	-	-
NCA08.RES.0020	NCA08	1	289185	6279588	Residential	59 Drift Road Richmond	60	55	P	55	48	55	49	0.3	0.2	-	-	-	-	-	-	-	-
NCA08.RES.0021	NCA08	1	289222	6279559	Residential	61 Drift Road Richmond	60	55	P	67	60	68	62	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0022	NCA08	1	289187	6279551	Residential	63 Drift Road Richmond	60	55	P	66	60	67	62	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0023	NCA08	1	289170	6279592	Residential	65 Drift Road Richmond	60	55	P	61	53	55	51	0.9	0.6	-	-	-	-	-	-	-	-
NCA08.RES.0024	NCA08	1	289165	6279560	Residential	67 Drift Road Richmond	60	55	P	58	51	59	53	0.3	0.2	-	-	-	-	-	-	-	-
NCA08.RES.0025	NCA08	1	289152	6279551	Residential	69 Drift Road Richmond	60	55	P	61	54	62	56	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0026	NCA08	1	289135	6279534	Residential	71 Drift Road Richmond	60	55	P	66	60	67	61	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0027	NCA08	1	289100	6279509	Residential	73 Drift Road Richmond	60	55	P	67	61	68	63	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0029	NCA08	1	289370	6279914	Residential	6 Drift Road Richmond	55	50	P	55	49	62	56	15.9	15.3	Y	Y	Y	Y	-	-	Y	Y
NCA08.RES.0029	NCA08	2	289370	6279914	Residential	6 Drift Road Richmond	55	50	P	56	50	62	56	15.4	14.8	Y	Y	Y	Y	-	-	Y	Y
NCA08.RES.0030	NCA08	1	289274	6279912	Residential	14 Drift Road Richmond	55	50	P	52	46	58	52	12.1	11.8	Y	Y	-	-	-	-	Y	Y
NCA08.RES.0031	NCA08	1	289204	6279933	Residential	22 Drift Road Richmond	55	50	P	52	46	58	52	12.1	11.8	Y	Y	-	-	-	-	Y	Y
NCA08.RES.0032	NCA08	1	289101	6279852	Residential	26 Drift Road Richmond	55	50	P	50	43	53	47	7.9	7.5	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA08.RES.0033	NCA08	1	288872	6279917	Residential	42 Drift Road Richmond	55	50	P	50	44	53	47	8	7.7	-	-	-	-	-	-	-	-
NCA08.RES.0034	NCA08	1	289510	6279876	Residential	29 Inalls Lane Richmond	55	50	P	60	53	68	62	23.5	22.7	Y	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0035	NCA08	1	289412	6279731	Residential	3 Ivory Place Richmond	56	51	P	50	44	52	46	4.6	4.2	-	-	-	-	-	-	-	-
NCA08.RES.0036	NCA08	1	289450	6279705	Residential	5 Ivory Place Richmond	57	52	P	51	45	55	49	4	3.7	-	-	-	-	-	-	-	-
NCA08.RES.0037	NCA08	1	289477	6279643	Residential	7 Ivory Place Richmond	60	55	P	60	54	61	56	0.2	0.1	-	Y	-	-	-	-	Y	-
NCA08.RES.0038	NCA08	1	289430	6279616	Residential	9 Ivory Place Richmond	60	55	P	65	59	67	61	0.2	0.1	-	-	-	-	-	-	-	-
NCA08.RES.0039	NCA08	1	289397	6279750	Residential	2 Ivory Place Richmond	56	51	P	51	44	53	47	6	5.3	-	-	-	-	-	-	-	-
NCA08.RES.0040	NCA08	1	289426	6279716	Residential	4 Ivory Place Richmond	57	52	P	50	43	52	46	4.2	3.8	-	-	-	-	-	-	-	-
NCA08.RES.0041	NCA08	1	289469	6279688	Residential	6 Ivory Place Richmond	58	53	P	54	48	57	51	4	3.7	-	-	-	-	-	-	-	-
NCA08.RES.0042	NCA08	1	289463	6279626	Residential	8 Ivory Place Richmond	60	55	P	65	59	66	60	0.3	0.2	-	-	-	-	-	-	-	-
NCA08.RES.0043	NCA08	1	289406	6279611	Residential	10 Ivory Place Richmond	60	55	P	65	59	66	60	0.1	0.1	-	-	-	-	-	-	-	-
NCA08.RES.0044	NCA08	1	289382	6279614	Residential	10 Ivory Place Richmond	60	55	P	62	56	63	57	0.2	0.2	-	-	-	-	-	-	-	-
NCA08.RES.0045	NCA08	1	289405	6279668	Residential	1 Langley Place Richmond	60	55	P	52	46	54	48	2	1.9	-	-	-	-	-	-	-	-
NCA08.RES.0046	NCA08	1	289375	6279602	Residential	3 Langley Place Richmond	60	55	P	65	59	67	61	0.2	0.1	-	-	-	-	-	-	-	-
NCA08.RES.0047	NCA08	1	289340	6279601	Residential	5 Langley Place Richmond	60	55	P	63	57	64	59	0.1	0.1	-	-	-	-	-	-	-	-
NCA08.RES.0048	NCA08	1	289296	6279587	Residential	7 Langley Place Richmond	60	55	P	63	57	64	58	0.1	0.1	-	-	-	-	-	-	-	-
NCA08.RES.0049	NCA08	1	289269	6279578	Residential	7 Langley Place Richmond	60	55	P	65	59	66	60	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0049	NCA08	2	289269	6279578	Residential	7 Langley Place Richmond	60	55	P	66	60	67	62	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0050	NCA08	1	289288	6279633	Residential	9 Langley Place Richmond	60	55	P	52	46	54	48	1.1	0.9	-	-	-	-	-	-	-	-
NCA08.RES.0051	NCA08	1	289335	6279671	Residential	11 Langley Place Richmond	60	55	P	49	43	51	45	1.6	1.4	-	-	-	-	-	-	-	-
NCA08.RES.0051	NCA08	2	289348	6279683	Residential	11 Langley Place Richmond	59	54	P	52	46	55	49	2.9	2.7	-	-	-	-	-	-	-	-
NCA08.RES.0052	NCA08	1	289368	6279635	Residential	2 Langley Place Richmond	60	55	P	53	47	55	49	0.7	0.6	-	-	-	-	-	-	-	-
NCA08.RES.0052	NCA08	2	289368	6279635	Residential	2 Langley Place Richmond	60	55	P	58	52	59	54	1	0.9	-	-	-	-	-	-	-	-
NCA08.RES.0053	NCA08	1	289348	6279620	Residential	4 Langley Place Richmond	60	55	P	56	50	57	51	0.4	0.3	-	-	-	-	-	-	-	-
NCA08.RES.0053	NCA08	2	289348	6279620	Residential	4 Langley Place Richmond	60	55	P	61	54	62	56	0.5	0.4	-	-	-	-	-	-	-	-
NCA08.RES.0054	NCA08	1	289316	6279586	Residential	6 Langley Place Richmond	60	55	P	66	60	67	61	0.1	0	-	-	-	-	-	-	-	-
NCA08.RES.0055	NCA08	1	289270	6279611	Residential	8 Langley Place Richmond	60	55	P	55	48	56	50	0.4	0.3	-	-	-	-	-	-	-	-
NCA08.RES.0056	NCA08	1	289318	6279659	Residential	10 Langley Place Richmond	60	55	P	50	44	52	46	1.4	1.2	-	-	-	-	-	-	-	-
NCA08.RES.0057	NCA08	1	289370	6279708	Residential	12 Langley Place Richmond	58	53	P	51	44	53	47	5.2	4.8	-	-	-	-	-	-	-	-
NCA08.RES.0057	NCA08	2	289370	6279708	Residential	12 Langley Place Richmond	58	53	P	54	47	56	50	5.4	5	-	-	-	-	-	-	-	-
NCA08.RES.0058	NCA08	1	289569	6279816	Residential	1 Victoria Place Richmond	55	50	P	61	54	70	64	23.6	23	Y	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0059	NCA08	1	289531	6279784	Residential	3 Victoria Place Richmond	55	50	P	51	45	58	51	11.8	11.2	Y	Y	-	-	-	-	Y	Y
NCA08.RES.0060	NCA08	1	289512	6279735	Residential	5 Victoria Place Richmond	55	50	P	54	48	58	52	5	4.6	Y	Y	-	-	-	-	Y	-
NCA08.RES.0061	NCA08	1	289467	6279723	Residential	7 Victoria Place Richmond	56	51	P	52	46	55	49	3	2.9	-	-	-	-	-	-	-	-
NCA08.RES.0062	NCA08	1	289432	6279774	Residential	9 Victoria Place Richmond	55	50	P	52	45	54	48	6.8	5.9	-	-	-	-	-	-	-	-
NCA08.RES.0063	NCA08	1	289489	6279789	Residential	11 Victoria Place Richmond	55	50	P	50	43	55	49	8.4	7.7	-	-	-	-	-	-	-	-
NCA08.RES.0064	NCA08	1	289511	6279835	Residential	13 Victoria Place Richmond	55	50	P	54	47	61	54	16.1	15.3	Y	Y	Y	-	-	-	Y	Y
NCA08.RES.0065	NCA08	1	289560	6279778	Residential	2 Victoria Place Richmond	55	50	P	54	48	61	55	10.3	9.6	Y	Y	Y	Y	-	-	Y	Y
NCA08.RES.0066	NCA08	1	289523	6279753	Residential	4 Victoria Place Richmond	55	50	P	53	47	58	52	6.1	5.6	Y	Y	-	-	-	-	Y	Y
NCA08.RES.0066	NCA08	2	289519	6279765	Residential	4 Victoria Place Richmond	55	50	P	54	48	61	54	12.2	11.7	Y	Y	Y	-	-	-	Y	Y
NCA08.RES.0067	NCA08	1	289483	6279717	Residential	6 Victoria Place Richmond	56	51	P	53	47	57	51	3.7	3.4	Y	-	-	-	-	-	Y	-
NCA08.RES.0067	NCA08	2	289490	6279728	Residential	6 Victoria Place Richmond	55	50	P	55	49	59	53	5.4	5.1	Y	Y	-	-	-	-	Y	-
NCA08.RES.0068	NCA08	1	289456	6279744	Residential	8 Victoria Place Richmond	55	50	P	50	44	54	47	6.6	6	-	-	-	-	-	-	-	-
NCA08.RES.0069	NCA08	1	289468	6279772	Residential	10 Victoria Place Richmond	55	50	P	50	44	54	48	6.1	5.6	-	-	-	-	-	-	-	-
NCA08.RES.0070	NCA08	1	289489	6279820	Residential	12 Victoria Place Richmond	55	50	P	50	44	56	50	12.9	12.1	Y	-	-	-	-	-	Y	-
NCA08.RES.0070	NCA08	2	289495	6279822	Residential	12 Victoria Place Richmond	55	50	P	55	49	62	55	14.4	13.8	Y	Y	Y	Y	-	-	Y	Y
NCA08.RES.0071	NCA08	1	289543	6279848	Residential	14 Victoria Place Richmond	55	50	P	61	54	70	64	25.7	25.1	Y	Y	Y	Y	Y	Y	Y	Y
NCA08.RES.0071	NCA08	2	289543	6279848	Residential	14 Victoria Place Richmond	55	50	P	62	56	72	65	25.1	24.5	Y	Y	Y	Y	Y	Y	Y	Y
NCA09.OOA.0109	NCA09	1	290391	6280647	Other (Outdoor Active)	Kurrajong Road Richmond	60	-	P	62	56	61	55	0.2	0.1	-	-	-	-	-	-	-	-
NCA09.OOA.0110	NCA09	1	290499	6280118	Other (Outdoor Active)	2A William Cox Drive Richmond	60	-	P	50	44	51	45	1.3	1.3	-	-	-	-	-	-	-	-
NCA09.OOA.0124	NCA09	1	290597	6280745	Other (Outdoor Active)	Windsor Street Richmond	60	-	P	52	46	51	46	0.7	0.7	-	-	-	-	-	-	-	-
NCA09.OOP.0119	NCA09	1	290696	6280673	Other (Outdoor Passive)	347 Windsor Street Richmond	55	-	P	51	45	51	45	1.3	1.2	-	-	-	-	-	-	-	-
NCA09.OPW.0117	NCA09	1	290722	6280608	Other (Place of Worship)	345 Windsor Street Richmond	50	50	H	54	51	53	51	1.3	1.3	-	-	-	-	-	-	-	-
NCA09.OPW.0123	NCA09	1	290663	6280586	Other (Place of Worship)	384 Windsor Street Richmond	50	50	H	56	54	56	54	1	0.9	-	-	-	-	-	-	-	-
NCA09.OPW.0123	NCA09	2	290663	6280586	Other (Place of Worship)	384 Windsor Street Richmond	50	50	H	58	55	57	55	0.9	0.8	-	-	-	-	-	-	-	-
NCA09.RES.0001	NCA09	1	290811	6280686	Residential	1 Chapel Street Richmond	60	54	P	48	42	48	42	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0002	NCA09	1	290791	6280666	Residential	3 Chapel Street Richmond	60	55	P	51	45	51	46	1.5	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0003	NCA09	1	290776	6280677	Residential	3 Chapel Street Richmond	60	55	P	52	46	52	46	1.5	1.4	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA09.RES.0004	NCA09	1	290758	6280646	Residential	5A Chapel Street Richmond	60	55	P	51	45	51	46	1.5	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0005	NCA09	1	290801	6280640	Residential	5 Chapel Street Richmond	60	55	P	49	43	49	43	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0006	NCA09	1	290795	6280618	Residential	7 Chapel Street Richmond	60	55	P	49	43	49	43	1	1	-	-	-	-	-	-	-	-
NCA09.RES.0007	NCA09	1	290805	6280604	Residential	9 Chapel Street Richmond	60	55	P	49	43	49	43	0.9	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0008	NCA09	1	290723	6280510	Residential	11 Chapel Street Richmond	60	55	P	54	48	54	48	0.4	0.4	-	-	-	-	-	-	-	-
NCA09.RES.0008	NCA09	2	290732	6280502	Residential	11 Chapel Street Richmond	60	55	P	57	51	57	51	0.4	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0009	NCA09	1	290762	6280528	Residential	11A Chapel Street Richmond	60	55	P	51	45	50	45	0.3	0.2	-	-	-	-	-	-	-	-
NCA09.RES.0009	NCA09	2	290753	6280523	Residential	11A Chapel Street Richmond	60	55	P	53	47	53	47	0.3	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0010	NCA09	1	290716	6280497	Residential	13 Chapel Street Richmond	60	55	P	56	50	55	50	0.4	0.4	-	-	-	-	-	-	-	-
NCA09.RES.0011	NCA09	1	290712	6280484	Residential	15 Chapel Street Richmond	60	55	P	57	51	56	51	0.4	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0012	NCA09	1	290700	6280457	Residential	17 Chapel Street Richmond	60	55	P	60	53	59	53	0.2	0.1	-	-	-	-	-	-	-	-
NCA09.RES.0013	NCA09	1	290713	6280436	Residential	19 Chapel Street Richmond	60	55	P	61	56	61	55	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0014	NCA09	1	290695	6280425	Residential	21 Chapel Street Richmond	60	55	P	68	62	67	62	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0015	NCA09	1	290588	6280368	Residential	29/23 Chapel Street Richmond	60	55	P	51	45	50	45	0.6	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0016	NCA09	1	290661	6280336	Residential	1/23 Chapel Street Richmond	60	55	P	57	51	56	50	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0016	NCA09	2	290663	6280350	Residential	1/23 Chapel Street Richmond	60	55	P	59	53	58	53	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0017	NCA09	1	290607	6280392	Residential	22/23 Chapel Street Richmond	60	55	P	51	45	51	45	0.4	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0018	NCA09	1	290589	6280412	Residential	31/23 Chapel Street Richmond	60	55	P	55	49	54	49	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0018	NCA09	2	290589	6280412	Residential	31/23 Chapel Street Richmond	60	55	P	59	53	58	52	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0019	NCA09	1	290560	6280445	Residential	36/23 Chapel Street Richmond	60	55	P	63	57	62	57	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0020	NCA09	1	290629	6280375	Residential	13/23 Chapel Street Richmond	60	55	P	52	46	52	46	0.4	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0020	NCA09	2	290626	6280371	Residential	13/23 Chapel Street Richmond	60	55	P	55	49	55	49	0.6	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0021	NCA09	1	290565	6280367	Residential	29/23 Chapel Street Richmond	60	55	P	50	44	50	44	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0022	NCA09	1	290676	6280388	Residential	11/23 Chapel Street Richmond	60	55	P	71	65	70	65	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0022	NCA09	2	290676	6280388	Residential	11/23 Chapel Street Richmond	60	55	P	72	66	71	66	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0023	NCA09	1	290617	6280388	Residential	20/23 Chapel Street Richmond	60	55	P	56	50	55	49	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0024	NCA09	1	290597	6280354	Residential	22/23 Chapel Street Richmond	60	55	P	50	44	50	44	0.7	0.6	-	-	-	-	-	-	-	-
NCA09.RES.0025	NCA09	1	290578	6280440	Residential	39/23 Chapel Street Richmond	60	55	P	67	61	66	60	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0025	NCA09	2	290578	6280440	Residential	39/23 Chapel Street Richmond	60	55	P	71	65	70	65	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0027	NCA09	1	290620	6280419	Residential	23/23 Chapel Street Richmond	60	55	P	70	64	69	64	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0027	NCA09	2	290620	6280419	Residential	23/23 Chapel Street Richmond	60	55	P	72	66	71	65	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0028	NCA09	1	290650	6280402	Residential	19/23 Chapel Street Richmond	60	55	P	71	65	70	64	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0028	NCA09	2	290650	6280402	Residential	19/23 Chapel Street Richmond	60	55	P	72	66	71	65	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0029	NCA09	1	290670	6280351	Residential	11/23 Chapel Street Richmond	60	55	P	60	54	59	53	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0030	NCA09	1	290569	6280403	Residential	40/23 Chapel Street Richmond	60	55	P	51	44	50	44	0.4	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0030	NCA09	2	290561	6280399	Residential	40/23 Chapel Street Richmond	60	55	P	53	47	53	48	1.6	1.5	-	-	-	-	-	-	-	-
NCA09.RES.0031	NCA09	1	290610	6280363	Residential	21/23 Chapel Street Richmond	60	55	P	50	44	50	45	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0032	NCA09	1	290551	6280418	Residential	36/23 Chapel Street Richmond	60	55	P	52	45	51	45	0.4	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0032	NCA09	2	290551	6280418	Residential	36/23 Chapel Street Richmond	60	55	P	56	49	55	49	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0033	NCA09	1	290541	6280420	Residential	36/23 Chapel Street Richmond	60	55	P	52	46	52	46	0.6	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0034	NCA09	1	290616	6280359	Residential	20/23 Chapel Street Richmond	60	55	P	50	44	50	44	0.9	0.8	-	-	-	-	-	-	-	-
NCA09.RES.0035	NCA09	1	290651	6280369	Residential	13/23 Chapel Street Richmond	60	55	P	55	49	54	49	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0035	NCA09	2	290651	6280369	Residential	13/23 Chapel Street Richmond	60	55	P	57	51	56	51	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0036	NCA09	1	290599	6280430	Residential	25/23 Chapel Street Richmond	60	55	P	69	63	68	62	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0037	NCA09	1	290648	6280313	Residential	1/23 Chapel Street Richmond	60	55	P	54	48	53	48	0.1	0	-	-	-	-	-	-	-	-
NCA09.RES.0038	NCA09	1	290595	6280339	Residential	4/23 Chapel Street Richmond	60	55	P	49	43	49	43	0.9	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0039	NCA09	1	290603	6280346	Residential	4/23 Chapel Street Richmond	60	55	P	49	43	49	43	0.8	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0040	NCA09	1	290630	6280325	Residential	4/23 Chapel Street Richmond	60	55	P	49	43	49	43	0.6	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0041	NCA09	1	290488	6280485	Residential	25 Chapel Street Richmond	60	55	P	64	58	64	58	0.1	0.1	-	-	-	-	-	-	-	-
NCA09.RES.0042	NCA09	1	290566	6280318	Residential	29 Chapel Street Richmond	60	54	P	48	42	49	43	1.2	1	-	-	-	-	-	-	-	-
NCA09.RES.0043	NCA09	1	290566	6280332	Residential	29 Chapel Street Richmond	60	55	P	49	43	49	43	0.8	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0044	NCA09	1	290547	6280332	Residential	29 Chapel Street Richmond	60	55	P	49	43	50	44	1.5	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0045	NCA09	1	290536	6280350	Residential	29 Chapel Street Richmond	60	55	P	50	44	50	44	1.2	1.1	-	-	-	-	-	-	-	-
NCA09.RES.0046	NCA09	1	290501	6280307	Residential	29 Chapel Street Richmond	60	55	P	52	46	52	47	2	1.9	-	-	-	-	-	-	-	-
NCA09.RES.0047	NCA09	1	290547	6280359	Residential	29 Chapel Street Richmond	60	55	P	50	44	50	44	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0048	NCA09	1	290556	6280339	Residential	29 Chapel Street Richmond	60	54	P	48	42	48	43	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0049	NCA09	1	290575	6280327	Residential	29 Chapel Street Richmond	60	55	P	48	43	49	43	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0050	NCA09	1	290586	6280332	Residential	29 Chapel Street Richmond	60	54	P	48	42	48	42	0.9	0.7	-	-	-	-	-	-	-	-

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										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA09.RES.0051	NCA09	1	290540	6280287	Residential	31 Chapel Street Richmond	60	55	P	49	43	50	44	1.5	1.5	-	-	-	-	-	-	-	-
NCA09.RES.0052	NCA09	1	290539	6280271	Residential	31 Chapel Street Richmond	60	55	P	51	45	51	46	2.2	2.2	-	-	-	-	-	-	-	-
NCA09.RES.0053	NCA09	1	290565	6280296	Residential	31 Chapel Street Richmond	60	54	P	48	42	48	43	1.4	1.3	-	-	-	-	-	-	-	-
NCA09.RES.0054	NCA09	1	290481	6280292	Residential	35 Chapel Street Richmond	60	55	P	53	47	53	47	1.8	1.7	-	-	-	-	-	-	-	-
NCA09.RES.0055	NCA09	1	290877	6280731	Residential	1/155 Francis Street Richmond	60	54	P	48	42	48	43	1.9	1.9	-	-	-	-	-	-	-	-
NCA09.RES.0056	NCA09	1	290884	6280757	Residential	3/155 Francis Street Richmond	54	49	P	42	37	43	37	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0056	NCA09	2	290887	6280751	Residential	3/155 Francis Street Richmond	60	54	P	48	42	48	42	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0057	NCA09	1	290874	6280771	Residential	3/155 Francis Street Richmond	54	48	P	42	36	42	36	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0057	NCA09	2	290874	6280771	Residential	3/155 Francis Street Richmond	58	52	P	46	40	46	40	1.2	1.1	-	-	-	-	-	-	-	-
NCA09.RES.0058	NCA09	1	290861	6280739	Residential	161 Francis Street Richmond	60	54	P	48	42	48	43	2	2	-	-	-	-	-	-	-	-
NCA09.RES.0058	NCA09	2	290861	6280739	Residential	161 Francis Street Richmond	60	55	P	50	44	50	44	1.9	1.8	-	-	-	-	-	-	-	-
NCA09.RES.0059	NCA09	1	290855	6280782	Residential	161 Francis Street Richmond	57	51	P	45	39	45	39	1.4	1.3	-	-	-	-	-	-	-	-
NCA09.RES.0059	NCA09	2	290855	6280782	Residential	161 Francis Street Richmond	60	54	P	48	42	49	43	1.5	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0060	NCA09	1	290841	6280750	Residential	161 Francis Street Richmond	60	55	P	48	43	49	43	2.2	2.1	-	-	-	-	-	-	-	-
NCA09.RES.0060	NCA09	2	290841	6280750	Residential	161 Francis Street Richmond	60	55	P	51	45	51	45	1.9	1.8	-	-	-	-	-	-	-	-
NCA09.RES.0061	NCA09	1	290834	6280753	Residential	165 Francis Street Richmond	60	55	P	49	43	49	43	2.4	2.2	-	-	-	-	-	-	-	-
NCA09.RES.0062	NCA09	1	290819	6280798	Residential	167A Francis Street Richmond	54	48	P	42	36	42	37	1.2	1.2	-	-	-	-	-	-	-	-
NCA09.RES.0063	NCA09	1	290808	6280772	Residential	167 Francis Street Richmond	60	55	P	49	44	50	44	2.4	2.3	-	-	-	-	-	-	-	-
NCA09.RES.0064	NCA09	1	290790	6280780	Residential	169 Francis Street Richmond	60	55	P	50	44	50	44	1.9	1.9	-	-	-	-	-	-	-	-
NCA09.RES.0064	NCA09	2	290790	6280780	Residential	169 Francis Street Richmond	60	55	P	52	46	51	46	1.6	1.5	-	-	-	-	-	-	-	-
NCA09.RES.0065	NCA09	1	290773	6280789	Residential	171 Francis Street Richmond	60	55	P	51	45	50	45	1.7	1.6	-	-	-	-	-	-	-	-
NCA09.RES.0066	NCA09	1	290759	6280795	Residential	173A Francis Street Richmond	60	55	P	50	45	50	45	1.7	1.6	-	-	-	-	-	-	-	-
NCA09.RES.0066	NCA09	2	290755	6280816	Residential	173A Francis Street Richmond	60	55	P	52	46	52	47	1.5	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0067	NCA09	1	290748	6280828	Residential	175A Francis Street Richmond	60	55	P	51	45	51	45	0.8	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0068	NCA09	1	290704	6280837	Residential	175A Francis Street Richmond	60	55	P	53	47	52	47	1.2	1.1	-	-	-	-	-	-	-	-
NCA09.RES.0068	NCA09	2	290704	6280837	Residential	175A Francis Street Richmond	60	55	P	53	47	53	47	1.2	1.1	-	-	-	-	-	-	-	-
NCA09.RES.0069	NCA09	1	290738	6280817	Residential	175 Francis Street Richmond	60	55	P	52	46	51	46	1.4	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0070	NCA09	1	290839	6280687	Residential	160 Francis Street Richmond	60	55	P	49	43	49	43	1.6	1.5	-	-	-	-	-	-	-	-
NCA09.RES.0071	NCA09	1	290834	6280694	Residential	162 Francis Street Richmond	60	54	P	48	42	48	42	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0072	NCA09	1	290817	6280706	Residential	164 Francis Street Richmond	60	54	P	48	42	48	42	1.1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0073	NCA09	1	290790	6280705	Residential	166 Francis Street Richmond	60	55	P	51	45	50	45	1.7	1.7	-	-	-	-	-	-	-	-
NCA09.RES.0074	NCA09	1	290807	6280706	Residential	166 Francis Street Richmond	60	54	P	48	42	48	42	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0075	NCA09	1	290779	6280722	Residential	168 Francis Street Richmond	60	55	P	51	45	51	46	1.5	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0075	NCA09	2	290779	6280722	Residential	168 Francis Street Richmond	60	55	P	53	47	53	47	1.3	1.2	-	-	-	-	-	-	-	-
NCA09.RES.0076	NCA09	1	290766	6280733	Residential	170 Francis Street Richmond	60	55	P	52	46	52	46	1.1	1.1	-	-	-	-	-	-	-	-
NCA09.RES.0077	NCA09	1	290744	6280740	Residential	172 Francis Street Richmond	60	55	P	51	45	51	45	0.8	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0078	NCA09	1	290709	6280749	Residential	174 Francis Street Richmond	60	55	P	53	47	53	47	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0079	NCA09	1	290679	6280763	Residential	176 Francis Street Richmond	60	55	P	54	48	54	48	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0080	NCA09	1	290553	6280130	Residential	29 John Tebbutt Place Richmond	60	55	P	48	43	49	43	0.7	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0081	NCA09	1	290563	6280132	Residential	29 John Tebbutt Place Richmond	60	55	P	49	43	50	44	0.9	0.8	-	-	-	-	-	-	-	-
NCA09.RES.0082	NCA09	1	290582	6280166	Residential	37 John Tebbutt Place Richmond	60	55	P	49	43	50	44	0.7	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0083	NCA09	1	290566	6280172	Residential	39 John Tebbutt Place Richmond	59	53	P	47	41	48	42	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0083	NCA09	2	290566	6280172	Residential	39 John Tebbutt Place Richmond	60	55	P	51	45	52	45	0.8	0.8	-	-	-	-	-	-	-	-
NCA09.RES.0084	NCA09	1	290534	6280150	Residential	41 John Tebbutt Place Richmond	60	55	P	51	45	52	46	1.7	1.8	-	-	-	-	-	-	-	-
NCA09.RES.0085	NCA09	1	290567	6280224	Residential	47 John Tebbutt Place Richmond	60	55	P	50	44	50	44	1.3	1.3	-	-	-	-	-	-	-	-
NCA09.RES.0086	NCA09	1	290592	6280234	Residential	49 John Tebbutt Place Richmond	60	55	P	50	44	50	44	0.6	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0087	NCA09	1	290616	6280228	Residential	53 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.5	0.4	-	-	-	-	-	-	-	-
NCA09.RES.0088	NCA09	1	290626	6280242	Residential	55 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.8	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0089	NCA09	1	290642	6280272	Residential	59 John Tebbutt Place Richmond	60	55	P	52	46	52	46	0.5	0.4	-	-	-	-	-	-	-	-
NCA09.RES.0090	NCA09	1	290639	6280298	Residential	59 John Tebbutt Place Richmond	60	55	P	50	45	50	44	0.5	0.4	-	-	-	-	-	-	-	-
NCA09.RES.0091	NCA09	1	290631	6280291	Residential	59 John Tebbutt Place Richmond	60	55	P	50	44	50	44	0.5	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0092	NCA09	1	290622	6280284	Residential	59 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.6	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0093	NCA09	1	290616	6280276	Residential	59 John Tebbutt Place Richmond	60	55	P	50	44	50	44	0.6	0.5	-	-	-	-	-	-	-	-
NCA09.RES.0094	NCA09	1	290541	6280120	Residential	26 John Tebbutt Place Richmond	60	55	P	52	46	53	47	1.5	1.5	-	-	-	-	-	-	-	-
NCA09.RES.0095	NCA09	1	290556	6280121	Residential	26 John Tebbutt Place Richmond	60	54	P	48	42	49	43	0.9	0.8	-	-	-	-	-	-	-	-
NCA09.RES.0096	NCA09	1	290553	6280096	Residential	26 John Tebbutt Place Richmond	60	55	P	51	45	52	46	1.7	1.7	-	-	-	-	-	-	-	-
NCA09.RES.0097	NCA09	1	290564	6280127	Residential	29-36 John Tebbutt Place Richmond	60	54	P	48	42	49	43	1.1	1	-	-	-	-	-	-	-	-
NCA09.RES.0098	NCA09	1	290565	6280157	Residential	40 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.9	0.8	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA09.RES.0099	NCA09	1	290523	6280167	Residential	42 John Tebbutt Place Richmond	60	55	P	51	45	52	46	1.9	1.9	-	-	-	-	-	-	-	-
NCA09.RES.0100	NCA09	1	290514	6280186	Residential	44 John Tebbutt Place Richmond	60	55	P	51	45	52	46	2.1	2.1	-	-	-	-	-	-	-	-
NCA09.RES.0100	NCA09	2	290514	6280186	Residential	44 John Tebbutt Place Richmond	60	55	P	53	47	53	47	1.6	1.6	-	-	-	-	-	-	-	-
NCA09.RES.0101	NCA09	1	290540	6280207	Residential	46 John Tebbutt Place Richmond	60	55	P	50	44	50	44	2.3	2.2	-	-	-	-	-	-	-	-
NCA09.RES.0101	NCA09	2	290540	6280207	Residential	46 John Tebbutt Place Richmond	60	55	P	52	46	52	46	1.7	1.7	-	-	-	-	-	-	-	-
NCA09.RES.0102	NCA09	1	290576	6280226	Residential	48 John Tebbutt Place Richmond	60	55	P	50	44	50	44	1.4	1.3	-	-	-	-	-	-	-	-
NCA09.RES.0103	NCA09	1	290603	6280203	Residential	50 John Tebbutt Place Richmond	60	55	P	49	43	48	42	0.2	0.1	-	-	-	-	-	-	-	-
NCA09.RES.0103	NCA09	2	290596	6280186	Residential	50 John Tebbutt Place Richmond	60	55	P	52	46	52	46	1.4	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0105	NCA09	1	290619	6280244	Residential	54 John Tebbutt Place Richmond	60	55	P	51	45	50	44	0.4	0.3	-	-	-	-	-	-	-	-
NCA09.RES.0106	NCA09	1	290573	6280271	Residential	54 John Tebbutt Place Richmond	60	55	P	49	43	49	43	1.4	1.2	-	-	-	-	-	-	-	-
NCA09.RES.0107	NCA09	1	290597	6280263	Residential	54 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.8	0.7	-	-	-	-	-	-	-	-
NCA09.RES.0108	NCA09	1	290607	6280269	Residential	54 John Tebbutt Place Richmond	60	55	P	49	43	49	43	0.6	0.6	-	-	-	-	-	-	-	-
NCA09.RES.0111	NCA09	1	290776	6280573	Residential	335 Windsor Street Richmond	60	55	P	50	44	50	44	1.5	1.4	-	-	-	-	-	-	-	-
NCA09.RES.0112	NCA09	1	290766	6280579	Residential	337 Windsor Street Richmond	60	55	P	51	45	51	45	1.4	1.3	-	-	-	-	-	-	-	-
NCA09.RES.0113	NCA09	1	290779	6280589	Residential	337 Windsor Street Richmond	60	54	P	48	42	48	42	0.7	0.6	-	-	-	-	-	-	-	-
NCA09.RES.0114	NCA09	1	290778	6280616	Residential	339 Windsor Street Richmond	60	54	P	48	42	48	42	1	0.9	-	-	-	-	-	-	-	-
NCA09.RES.0115	NCA09	1	290763	6280602	Residential	341 Windsor Street Richmond	60	55	P	50	44	50	44	0.7	0.6	-	-	-	-	-	-	-	-
NCA09.RES.0116	NCA09	1	290754	6280639	Residential	343 Windsor Street Richmond	60	55	P	51	45	51	45	1.8	1.6	-	-	-	-	-	-	-	-
NCA09.RES.0118	NCA09	1	290739	6280598	Residential	345 Windsor Street Richmond	60	55	P	52	46	52	46	1.3	1.2	-	-	-	-	-	-	-	-
NCA09.RES.0120	NCA09	1	290725	6280530	Residential	378 Windsor Street Richmond	60	55	P	54	48	53	47	0.5	0.4	-	-	-	-	-	-	-	-
NCA09.RES.0121	NCA09	1	290689	6280549	Residential	378 Windsor Street Richmond	60	55	P	53	47	53	47	0.7	0.6	-	-	-	-	-	-	-	-
NCA09.RES.0122	NCA09	1	290588	6280595	Residential	380 Windsor Street Richmond	60	55	P	58	52	57	52	0.7	0.6	-	-	-	-	-	-	-	-
NCA09.RES.0122	NCA09	2	290587	6280580	Residential	380 Windsor Street Richmond	60	55	P	60	54	59	54	0.4	0.3	-	-	-	-	-	-	-	-
NCA10.RES.0001	NCA10	1	290341	6279981	Residential	1 Andrew Town Place Richmond	60	55	P	52	46	53	47	0.7	0.7	-	-	-	-	-	-	-	-
NCA10.RES.0002	NCA10	1	290337	6280019	Residential	3 Andrew Town Place Richmond	60	55	P	50	44	51	45	0.5	0.5	-	-	-	-	-	-	-	-
NCA10.RES.0003	NCA10	1	290320	6280058	Residential	5 Andrew Town Place Richmond	60	55	P	50	44	50	44	0.6	0.6	-	-	-	-	-	-	-	-
NCA10.RES.0004	NCA10	1	290276	6280072	Residential	7 Andrew Town Place Richmond	60	55	P	50	44	51	45	3	2.9	-	-	-	-	-	-	-	-
NCA10.RES.0005	NCA10	1	290260	6280114	Residential	9 Andrew Town Place Richmond	60	55	P	52	46	53	47	2.2	2.1	-	-	-	-	-	-	-	-
NCA10.RES.0006	NCA10	1	290297	6280131	Residential	11 Andrew Town Place Richmond	60	55	P	52	46	52	47	2.2	2.1	-	-	-	-	-	-	-	-
NCA10.RES.0007	NCA10	1	290342	6280131	Residential	13 Andrew Town Place Richmond	60	55	P	52	46	51	46	1.3	1.2	-	-	-	-	-	-	-	-
NCA10.RES.0008	NCA10	1	290344	6280084	Residential	15 Andrew Town Place Richmond	60	55	P	49	43	51	45	2	2	-	-	-	-	-	-	-	-
NCA10.RES.0009	NCA10	1	290361	6280055	Residential	17 Andrew Town Place Richmond	60	55	P	50	44	51	45	1.8	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0010	NCA10	1	290370	6280021	Residential	19 Andrew Town Place Richmond	60	55	P	50	44	52	45	1.6	1.6	-	-	-	-	-	-	-	-
NCA10.RES.0011	NCA10	1	290340	6280010	Residential	2 Andrew Town Place Richmond	60	55	P	50	44	51	45	0.5	0.5	-	-	-	-	-	-	-	-
NCA10.RES.0012	NCA10	1	290310	6280031	Residential	4 Andrew Town Place Richmond	60	55	P	49	43	50	44	2.1	2.1	-	-	-	-	-	-	-	-
NCA10.RES.0013	NCA10	1	290314	6280074	Residential	6 Andrew Town Place Richmond	60	55	P	50	44	50	44	0.6	0.5	-	-	-	-	-	-	-	-
NCA10.RES.0014	NCA10	1	290269	6280081	Residential	8 Andrew Town Place Richmond	60	55	P	49	43	51	45	3	3.1	-	-	-	-	-	-	-	-
NCA10.RES.0015	NCA10	1	290282	6280123	Residential	10 Andrew Town Place Richmond	60	55	P	52	46	52	47	2.2	2.1	-	-	-	-	-	-	-	-
NCA10.RES.0016	NCA10	1	290319	6280134	Residential	12 Andrew Town Place Richmond	60	55	P	52	46	52	46	2	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0017	NCA10	1	290341	6280097	Residential	14 Andrew Town Place Richmond	60	55	P	49	43	50	44	2	2	-	-	-	-	-	-	-	-
NCA10.RES.0018	NCA10	1	290358	6280071	Residential	16 Andrew Town Place Richmond	60	55	P	49	43	50	44	1.8	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0019	NCA10	1	290366	6280038	Residential	18 Andrew Town Place Richmond	60	55	P	50	44	51	45	1.7	1.7	-	-	-	-	-	-	-	-
NCA10.RES.0020	NCA10	1	290391	6280002	Residential	20 Andrew Town Place Richmond	60	55	P	51	46	53	46	0.7	0.7	-	-	-	-	-	-	-	-
NCA10.RES.0021	NCA10	1	290134	6279926	Residential	1 Grand Flaneur Avenue Richmond	60	55	P	51	45	52	46	0.8	0.8	-	-	-	-	-	-	-	-
NCA10.RES.0022	NCA10	1	290117	6279937	Residential	3 Grand Flaneur Avenue Richmond	60	55	P	50	44	51	45	2.4	2.4	-	-	-	-	-	-	-	-
NCA10.RES.0023	NCA10	1	290099	6279919	Residential	5 Grand Flaneur Avenue Richmond	60	55	P	50	44	52	45	1.5	1.5	-	-	-	-	-	-	-	-
NCA10.RES.0024	NCA10	1	290080	6279912	Residential	7 Grand Flaneur Avenue Richmond	60	55	P	50	44	52	45	1.5	1.5	-	-	-	-	-	-	-	-
NCA10.RES.0025	NCA10	1	290065	6279905	Residential	9 Grand Flaneur Avenue Richmond	60	55	P	50	44	52	45	1.6	1.6	-	-	-	-	-	-	-	-
NCA10.RES.0026	NCA10	1	290041	6279894	Residential	11 Grand Flaneur Avenue Richmond	60	55	P	49	43	51	45	1.6	1.6	-	-	-	-	-	-	-	-
NCA10.RES.0027	NCA10	1	290017	6279879	Residential	13 Grand Flaneur Avenue Richmond	60	54	P	48	42	50	44	2.6	2.6	-	-	-	-	-	-	-	-
NCA10.RES.0028	NCA10	1	290000	6279881	Residential	15 Grand Flaneur Avenue Richmond	60	55	P	49	43	51	45	2	2.1	-	-	-	-	-	-	-	-
NCA10.RES.0029	NCA10	1	289988	6279872	Residential	17 Grand Flaneur Avenue Richmond	59	54	P	49	43	51	45	2	2	-	-	-	-	-	-	-	-
NCA10.RES.0030	NCA10	1	289969	6279858	Residential	19 Grand Flaneur Avenue Richmond	59	54	P	49	43	51	45	2.2	2.2	-	-	-	-	-	-	-	-
NCA10.RES.0031	NCA10	1	289941	6279861	Residential	21 Grand Flaneur Avenue Richmond	59	54	P	49	43	51	45	2.5	2.5	-	-	-	-	-	-	-	-
NCA10.RES.0032	NCA10	1	289930	6279860	Residential	23 Grand Flaneur Avenue Richmond	59	54	P	49	43	51	45	2.6	2.6	-	-	-	-	-	-	-	-
NCA10.RES.0033	NCA10	1	289911	6279871	Residential	25 Grand Flaneur Avenue Richmond	58	53	P	49	43	51	45	3.8	3.8	-	-	-	-	-	-	-	-
NCA10.RES.0034	NCA10	1	289896	6279881	Residential	27 Grand Flaneur Avenue Richmond	58	53	P	48	42	51	45	4.2	4.1	-	-	-	-	-	-	-	-
NCA10.RES.0035	NCA10	1	289872	6279897	Residential	29 Grand Flaneur Avenue Richmond	57	52	P	48	42	51	45	5.4	5.3	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA10.RES.0036	NCA10	1	289873	6279913	Residential	31 Grand Flaneur Avenue Richmond	57	52	P	48	42	51	45	5.3	5.1	-	-	-	-	-	-	-	-
NCA10.RES.0037	NCA10	1	289862	6279922	Residential	33 Grand Flaneur Avenue Richmond	57	52	P	48	42	51	45	4.9	4.8	-	-	-	-	-	-	-	-
NCA10.RES.0038	NCA10	1	289866	6279944	Residential	35 Grand Flaneur Avenue Richmond	57	52	P	49	43	50	44	2.8	2.8	-	-	-	-	-	-	-	-
NCA10.RES.0039	NCA10	1	289829	6279950	Residential	37 Grand Flaneur Avenue Richmond	56	51	P	47	41	50	44	5.4	5.1	-	-	-	-	-	-	-	-
NCA10.RES.0039	NCA10	2	289828	6279943	Residential	37 Grand Flaneur Avenue Richmond	56	51	P	51	45	55	49	7.8	7.7	-	-	-	-	-	-	-	-
NCA10.RES.0040	NCA10	1	289845	6279967	Residential	39 Grand Flaneur Avenue Richmond	56	51	P	49	43	50	44	3	2.9	-	-	-	-	-	-	-	-
NCA10.RES.0041	NCA10	1	289817	6279975	Residential	41 Grand Flaneur Avenue Richmond	56	51	P	47	41	51	45	6.4	6.2	-	-	-	-	-	-	-	-
NCA10.RES.0042	NCA10	1	289809	6279983	Residential	43 Grand Flaneur Avenue Richmond	56	51	P	47	41	51	45	5.8	5.6	-	-	-	-	-	-	-	-
NCA10.RES.0043	NCA10	1	289798	6280024	Residential	45 Grand Flaneur Avenue Richmond	56	51	P	50	44	53	47	5.9	5.6	-	-	-	-	-	-	-	-
NCA10.RES.0044	NCA10	1	290170	6279939	Residential	2 Grand Flaneur Avenue Richmond	60	55	P	50	44	52	45	2.2	2.3	-	-	-	-	-	-	-	-
NCA10.RES.0045	NCA10	1	290160	6279961	Residential	4 Grand Flaneur Avenue Richmond	60	55	P	50	44	52	45	2.3	2.4	-	-	-	-	-	-	-	-
NCA10.RES.0046	NCA10	1	290157	6279970	Residential	6 Grand Flaneur Avenue Richmond	60	55	P	49	43	51	45	2.4	2.5	-	-	-	-	-	-	-	-
NCA10.RES.0047	NCA10	1	290161	6280002	Residential	8 Grand Flaneur Avenue Richmond	60	55	P	50	44	51	45	2	2	-	-	-	-	-	-	-	-
NCA10.RES.0047	NCA10	2	290156	6279988	Residential	8 Grand Flaneur Avenue Richmond	60	55	P	51	45	53	47	1.9	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0048	NCA10	1	290121	6279970	Residential	10 Grand Flaneur Avenue Richmond	60	55	P	49	43	51	45	1.7	1.7	-	-	-	-	-	-	-	-
NCA10.RES.0049	NCA10	1	290088	6279960	Residential	12 Grand Flaneur Avenue Richmond	60	55	P	49	43	51	45	1.9	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0050	NCA10	1	290060	6279956	Residential	14 Grand Flaneur Avenue Richmond	59	54	P	49	43	51	45	3.5	3.5	-	-	-	-	-	-	-	-
NCA10.RES.0051	NCA10	1	290040	6279942	Residential	16 Grand Flaneur Avenue Richmond	59	54	P	49	43	51	45	1.9	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0052	NCA10	1	290015	6279928	Residential	18 Grand Flaneur Avenue Richmond	59	54	P	49	43	51	45	2.2	2.2	-	-	-	-	-	-	-	-
NCA10.RES.0053	NCA10	1	289993	6279941	Residential	20 Grand Flaneur Avenue Richmond	59	54	P	48	42	51	45	3.1	3.1	-	-	-	-	-	-	-	-
NCA10.RES.0054	NCA10	1	289978	6279941	Residential	22 Grand Flaneur Avenue Richmond	58	53	P	49	43	51	45	2.5	2.5	-	-	-	-	-	-	-	-
NCA10.RES.0055	NCA10	1	289955	6279928	Residential	24 Grand Flaneur Avenue Richmond	58	53	P	48	42	51	45	3.5	3.4	-	-	-	-	-	-	-	-
NCA10.RES.0056	NCA10	1	289933	6279915	Residential	28 Grand Flaneur Avenue Richmond	58	53	P	48	42	51	45	4	4	-	-	-	-	-	-	-	-
NCA10.RES.0057	NCA10	1	289924	6279927	Residential	30 Grand Flaneur Avenue Richmond	58	53	P	48	42	51	45	4.2	4.2	-	-	-	-	-	-	-	-
NCA10.RES.0058	NCA10	1	289901	6279945	Residential	32 Grand Flaneur Avenue Richmond	57	52	P	48	42	51	45	4.9	4.9	-	-	-	-	-	-	-	-
NCA10.RES.0059	NCA10	1	289867	6279988	Residential	36 Grand Flaneur Avenue Richmond	57	52	P	48	42	51	45	5.3	5.3	-	-	-	-	-	-	-	-
NCA10.RES.0060	NCA10	1	289853	6280008	Residential	38 Grand Flaneur Avenue Richmond	56	51	P	48	42	51	45	5.9	5.9	-	-	-	-	-	-	-	-
NCA10.RES.0061	NCA10	1	289847	6280017	Residential	40 Grand Flaneur Avenue Richmond	56	51	P	48	42	51	45	6.2	6.1	-	-	-	-	-	-	-	-
NCA10.RES.0062	NCA10	1	289829	6280047	Residential	42 Grand Flaneur Avenue Richmond	56	51	P	49	44	52	46	6.5	6.3	-	-	-	-	-	-	-	-
NCA10.RES.0063	NCA10	1	289729	6279710	Residential	2 Inalls Lane Richmond	60	55	P	62	56	67	60	15.6	14.7	Y	Y	Y	Y	Y	Y	Y	Y
NCA10.RES.0064	NCA10	1	289717	6279722	Residential	4 Inalls Lane Richmond	58	53	P	62	56	66	60	18.5	17.7	Y	Y	Y	Y	Y	Y	Y	Y
NCA10.RES.0065	NCA10	1	289711	6279729	Residential	6 Inalls Lane Richmond	57	52	P	62	56	66	60	20	19.2	Y	Y	Y	Y	Y	Y	Y	Y
NCA10.RES.0066	NCA10	1	289695	6279746	Residential	8 Inalls Lane Richmond	55	50	P	61	55	67	60	19.8	18.9	Y	Y	Y	Y	Y	Y	Y	Y
NCA10.RES.0067	NCA10	1	289665	6279811	Residential	10 Inalls Lane Richmond	55	50	P	57	51	64	58	16.3	15.6	Y	Y	Y	Y	-	-	Y	Y
NCA10.RES.0068	NCA10	1	289636	6279897	Residential	16 Inalls Lane Richmond	55	50	P	52	45	59	52	13.7	12.9	Y	Y	-	-	-	-	Y	Y
NCA10.RES.0069	NCA10	1	289634	6279875	Residential	16 Inalls Lane Richmond	55	50	P	55	49	63	56	15.9	15.1	Y	Y	Y	Y	-	-	Y	Y
NCA10.RES.0069	NCA10	2	289634	6279875	Residential	16 Inalls Lane Richmond	55	50	P	57	51	64	57	15.6	14.8	Y	Y	Y	Y	-	-	Y	Y
NCA10.RES.0070	NCA10	1	289606	6279909	Residential	22 Inalls Lane Richmond	55	50	P	54	48	62	55	16	15.3	Y	Y	Y	Y	-	-	Y	Y
NCA10.RES.0070	NCA10	2	289606	6279909	Residential	22 Inalls Lane Richmond	55	50	P	57	50	64	57	15.8	15	Y	Y	Y	Y	-	-	Y	Y
NCA10.RES.0071	NCA10	1	289572	6279935	Residential	32 Inalls Lane Richmond	55	50	P	54	47	60	53	14.7	13.7	Y	Y	Y	-	-	-	Y	Y
NCA10.RES.0072	NCA10	1	289538	6279947	Residential	32 Inalls Lane Richmond	55	50	P	59	52	65	58	19.9	18.5	Y	Y	Y	Y	Y	-	Y	Y
NCA10.RES.0073	NCA10	1	289551	6279912	Residential	32 Inalls Lane Richmond	55	50	P	62	55	69	62	22.9	21.9	Y	Y	Y	Y	Y	Y	Y	Y
NCA10.RES.0074	NCA10	1	289569	6279998	Residential	34 Inalls Lane Richmond	55	50	P	55	49	59	53	13.6	13.3	Y	Y	-	-	-	-	Y	Y
NCA10.RES.0075	NCA10	1	289584	6280011	Residential	34 Inalls Lane Richmond	55	50	P	54	47	58	52	12.9	12.6	Y	Y	-	-	-	-	Y	Y
NCA10.RES.0076	NCA10	1	289875	6279982	Residential	1 Lindsay Place Richmond	57	52	P	47	41	51	45	5.4	5.3	-	-	-	-	-	-	-	-
NCA10.RES.0077	NCA10	1	289915	6280015	Residential	3 Lindsay Place Richmond	57	52	P	50	44	51	46	3.5	3.3	-	-	-	-	-	-	-	-
NCA10.RES.0078	NCA10	1	289945	6280028	Residential	5 Lindsay Place Richmond	58	53	P	50	44	52	46	3	2.8	-	-	-	-	-	-	-	-
NCA10.RES.0079	NCA10	1	289967	6279997	Residential	7 Lindsay Place Richmond	58	53	P	48	42	51	45	4.5	4.3	-	-	-	-	-	-	-	-
NCA10.RES.0080	NCA10	1	289974	6279963	Residential	9 Lindsay Place Richmond	58	53	P	48	42	50	44	3.6	3.6	-	-	-	-	-	-	-	-
NCA10.RES.0081	NCA10	1	289939	6279958	Residential	11 Lindsay Place Richmond	58	53	P	48	42	50	44	3.3	3.2	-	-	-	-	-	-	-	-
NCA10.RES.0082	NCA10	1	289897	6280023	Residential	2 Lindsay Place Richmond	57	52	P	50	44	51	45	2.7	2.5	-	-	-	-	-	-	-	-
NCA10.RES.0083	NCA10	1	289929	6280018	Residential	4 Lindsay Place Richmond	57	52	P	49	43	51	45	4.7	4.7	-	-	-	-	-	-	-	-
NCA10.RES.0084	NCA10	1	289968	6280013	Residential	6 Lindsay Place Richmond	58	53	P	47	41	50	44	5.2	5.2	-	-	-	-	-	-	-	-
NCA10.RES.0084	NCA10	2	289964	6280029	Residential	6 Lindsay Place Richmond	58	53	P	52	46	54	48	3.9	3.7	-	-	-	-	-	-	-	-
NCA10.RES.0085	NCA10	1	290006	6280059	Residential	6 Lindsay Place Richmond	58	53	P	51	45	52	46	3.2	3.1	-	-	-	-	-	-	-	-
NCA10.RES.0086	NCA10	1	289962	6280044	Residential	6 Lindsay Place Richmond	58	53	P	51	45	52	46	2.7	2.5	-	-	-	-	-	-	-	-
NCA10.RES.0087	NCA10	1	289970	6279988	Residential	8 Lindsay Place Richmond	58	53	P	48	42	51	45	4.3	4.3	-	-	-	-	-	-	-	-
NCA10.RES.0088	NCA10	1	289946	6279959	Residential	10 Lindsay Place Richmond	58	53	P	48	42	50	44	3.9	3.8	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA10.RES.0089	NCA10	1	289913	6279960	Residential	12 Lindsay Place Richmond	57	52	P	48	42	50	44	4.7	4.7	-	-	-	-	-	-	-	-
NCA10.RES.0090	NCA10	1	290266	6279949	Residential	1 Segenhoe Place Richmond	60	55	P	53	46	54	47	0.6	0.6	-	-	-	-	-	-	-	-
NCA10.RES.0091	NCA10	1	290246	6279990	Residential	3 Segenhoe Place Richmond	60	55	P	50	44	52	46	1.6	1.6	-	-	-	-	-	-	-	-
NCA10.RES.0092	NCA10	1	290229	6280037	Residential	5 Segenhoe Place Richmond	60	55	P	50	44	51	45	2.8	2.7	-	-	-	-	-	-	-	-
NCA10.RES.0093	NCA10	1	290271	6280053	Residential	7 Segenhoe Place Richmond	60	55	P	50	44	51	45	2.1	2	-	-	-	-	-	-	-	-
NCA10.RES.0094	NCA10	1	290290	6280003	Residential	9 Segenhoe Place Richmond	60	55	P	50	44	51	45	1.8	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0094	NCA10	2	290305	6280004	Residential	9 Segenhoe Place Richmond	60	55	P	53	47	54	48	0.7	0.7	-	-	-	-	-	-	-	-
NCA10.RES.0095	NCA10	1	290310	6279970	Residential	11 Segenhoe Place Richmond	60	55	P	51	45	53	46	0.8	0.7	-	-	-	-	-	-	-	-
NCA10.RES.0096	NCA10	1	290250	6279971	Residential	2 Segenhoe Place Richmond	60	55	P	52	46	53	47	1.4	1.5	-	-	-	-	-	-	-	-
NCA10.RES.0097	NCA10	1	290244	6280007	Residential	4 Segenhoe Place Richmond	60	55	P	49	43	51	45	3.1	3.1	-	-	-	-	-	-	-	-
NCA10.RES.0098	NCA10	1	290249	6280049	Residential	6 Segenhoe Place Richmond	60	55	P	50	44	51	45	1.6	1.4	-	-	-	-	-	-	-	-
NCA10.RES.0099	NCA10	1	290291	6280029	Residential	8 Segenhoe Place Richmond	60	54	P	48	42	50	44	2.3	2.3	-	-	-	-	-	-	-	-
NCA10.RES.0100	NCA10	1	290296	6279991	Residential	10 Segenhoe Place Richmond	60	55	P	50	44	52	46	1.7	1.7	-	-	-	-	-	-	-	-
NCA10.RES.0101	NCA10	1	289748	6279828	Residential	5 Silverburn Avenue Richmond	56	51	P	51	45	57	50	10.3	9.7	Y	-	-	-	-	-	Y	-
NCA10.RES.0102	NCA10	1	289722	6279849	Residential	7 Silverburn Avenue Richmond	55	50	P	50	44	56	50	10.9	10.4	Y	-	-	-	-	-	Y	-
NCA10.RES.0102	NCA10	2	289722	6279849	Residential	7 Silverburn Avenue Richmond	55	50	P	53	47	59	53	10.6	10.2	Y	Y	-	-	-	-	Y	-
NCA10.RES.0103	NCA10	1	289687	6279890	Residential	9 Silverburn Avenue Richmond	55	50	P	50	44	56	50	11	10.5	Y	-	-	-	-	-	Y	-
NCA10.RES.0103	NCA10	2	289687	6279890	Residential	9 Silverburn Avenue Richmond	55	50	P	52	46	58	52	10.7	10.3	Y	Y	-	-	-	-	Y	Y
NCA10.RES.0104	NCA10	1	290416	6280046	Residential	3 Starlight Place Richmond	60	55	P	51	45	52	46	0.3	0.3	-	-	-	-	-	-	-	-
NCA10.RES.0105	NCA10	1	290385	6280075	Residential	5 Starlight Place Richmond	60	55	P	49	43	50	44	1.5	1.5	-	-	-	-	-	-	-	-
NCA10.RES.0106	NCA10	1	290364	6280107	Residential	7 Starlight Place Richmond	60	54	P	48	42	50	44	1.7	1.7	-	-	-	-	-	-	-	-
NCA10.RES.0107	NCA10	1	290372	6280148	Residential	9 Starlight Place Richmond	60	55	P	52	46	52	47	1.8	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0108	NCA10	1	290416	6280168	Residential	11 Starlight Place Richmond	60	55	P	52	46	52	46	1.6	1.5	-	-	-	-	-	-	-	-
NCA10.RES.0109	NCA10	1	290446	6280124	Residential	13 Starlight Place Richmond	60	55	P	50	44	50	44	0.5	0.4	-	-	-	-	-	-	-	-
NCA10.RES.0110	NCA10	1	290430	6280086	Residential	15 Starlight Place Richmond	60	55	P	49	43	51	44	1.6	1.6	-	-	-	-	-	-	-	-
NCA10.RES.0111	NCA10	1	290440	6280055	Residential	17 Starlight Place Richmond	60	55	P	50	44	51	45	1.3	1.3	-	-	-	-	-	-	-	-
NCA10.RES.0112	NCA10	1	290419	6280031	Residential	2 Starlight Place Richmond	60	55	P	52	46	53	46	0.3	0.2	-	-	-	-	-	-	-	-
NCA10.RES.0113	NCA10	1	290403	6280067	Residential	4 Starlight Place Richmond	60	55	P	50	44	50	44	0.4	0.4	-	-	-	-	-	-	-	-
NCA10.RES.0114	NCA10	1	290375	6280090	Residential	6 Starlight Place Richmond	60	55	P	49	43	50	44	1.5	1.4	-	-	-	-	-	-	-	-
NCA10.RES.0115	NCA10	1	290349	6280141	Residential	8 Starlight Place Richmond	60	55	P	52	46	52	47	2	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0116	NCA10	1	290399	6280161	Residential	10 Starlight Place Richmond	60	55	P	52	46	52	47	1.9	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0117	NCA10	1	290413	6280126	Residential	12 Starlight Place Richmond	60	55	P	49	43	50	44	1.7	1.6	-	-	-	-	-	-	-	-
NCA10.RES.0118	NCA10	1	290423	6280107	Residential	14 Starlight Place Richmond	60	55	P	49	43	50	44	2	2	-	-	-	-	-	-	-	-
NCA10.RES.0118	NCA10	2	290425	6280101	Residential	14 Starlight Place Richmond	60	55	P	53	47	54	48	1.7	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0119	NCA10	1	290433	6280073	Residential	16 Starlight Place Richmond	60	55	P	50	44	51	45	1.5	1.5	-	-	-	-	-	-	-	-
NCA10.RES.0120	NCA10	1	289852	6279769	Residential	3 Tim Whiffler Place Richmond	59	54	P	54	48	56	50	1.9	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0121	NCA10	1	289848	6279740	Residential	5 Tim Whiffler Place Richmond	60	55	P	60	54	61	55	0.9	0.9	-	-	-	-	-	-	-	-
NCA10.RES.0122	NCA10	1	289788	6279720	Residential	7 Tim Whiffler Place Richmond	60	55	P	61	55	63	57	7.1	7	Y	-	-	-	-	-	Y	-
NCA10.RES.0123	NCA10	1	289769	6279721	Residential	9 Tim Whiffler Place Richmond	59	54	P	59	53	63	56	12.5	12.3	Y	Y	-	-	-	-	Y	Y
NCA10.RES.0124	NCA10	1	289734	6279761	Residential	11 Tim Whiffler Place Richmond	57	52	P	53	46	59	52	13	12.2	Y	-	-	-	-	-	Y	-
NCA10.RES.0125	NCA10	1	289744	6279788	Residential	13 Tim Whiffler Place Richmond	56	51	P	51	45	56	50	10.5	9.7	-	-	-	-	-	-	-	-
NCA10.RES.0126	NCA10	1	289782	6279780	Residential	15 Tim Whiffler Place Richmond	57	52	P	51	45	55	49	6.3	6.2	-	-	-	-	-	-	-	-
NCA10.RES.0127	NCA10	1	289787	6279813	Residential	17 Tim Whiffler Place Richmond	57	52	P	50	44	54	48	7.9	7.5	-	-	-	-	-	-	-	-
NCA10.RES.0128	NCA10	1	289865	6279751	Residential	2 Tim Whiffler Place Richmond	60	55	P	58	52	60	53	1.9	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0128	NCA10	2	289865	6279751	Residential	2 Tim Whiffler Place Richmond	60	55	P	60	54	62	56	2.1	2.1	-	-	-	-	-	-	-	-
NCA10.RES.0129	NCA10	1	289844	6279762	Residential	4 Tim Whiffler Place Richmond	59	54	P	54	48	56	49	1.7	1.7	-	-	-	-	-	-	-	-
NCA10.RES.0130	NCA10	1	289819	6279734	Residential	6 Tim Whiffler Place Richmond	60	55	P	59	53	61	55	4.9	4.9	-	-	-	-	-	-	-	-
NCA10.RES.0131	NCA10	1	289780	6279725	Residential	8 Tim Whiffler Place Richmond	59	54	P	58	52	61	54	11.2	11	Y	-	-	-	-	-	Y	-
NCA10.RES.0132	NCA10	1	289749	6279732	Residential	10 Tim Whiffler Place Richmond	58	53	P	55	49	59	53	13.3	12.8	Y	-	-	-	-	-	Y	-
NCA10.RES.0133	NCA10	1	289724	6279774	Residential	12 Tim Whiffler Place Richmond	56	51	P	54	48	60	53	13.2	12.4	Y	Y	-	-	-	-	Y	Y
NCA10.RES.0134	NCA10	1	289773	6279781	Residential	14 Tim Whiffler Place Richmond	57	52	P	51	45	55	49	6.6	6.4	-	-	-	-	-	-	-	-
NCA10.RES.0135	NCA10	1	289801	6279782	Residential	16 Tim Whiffler Place Richmond	58	53	P	51	45	55	48	6.2	5.9	-	-	-	-	-	-	-	-
NCA10.RES.0136	NCA10	1	289801	6279823	Residential	18 Tim Whiffler Place Richmond	57	52	P	49	43	54	48	7	6.8	-	-	-	-	-	-	-	-
NCA10.RES.0137	NCA10	1	290489	6279993	Residential	1 William Cox Drive Richmond	60	55	P	61	55	62	56	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0138	NCA10	1	290474	6279981	Residential	3 William Cox Drive Richmond	60	55	P	63	57	64	57	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0139	NCA10	1	290449	6279979	Residential	5 William Cox Drive Richmond	60	55	P	60	54	61	54	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0140	NCA10	1	290415	6279973	Residential	7 William Cox Drive Richmond	60	55	P	53	47	54	48	0.2	0.2	-	-	-	-	-	-	-	-
NCA10.RES.0141	NCA10	1	290406	6279960	Residential	9 William Cox Drive Richmond	60	55	P	61	55	62	56	0.1	0	-	-	-	-	-	-	-	-

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										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA10.RES.0142	NCA10	1	290388	6279949	Residential	11 William Cox Drive Richmond	60	55	P	62	56	63	57	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0143	NCA10	1	290364	6279937	Residential	13 William Cox Drive Richmond	60	55	P	63	57	63	57	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0144	NCA10	1	290349	6279935	Residential	15 William Cox Drive Richmond	60	55	P	61	55	62	56	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0145	NCA10	1	290328	6279922	Residential	17 William Cox Drive Richmond	60	55	P	63	57	64	57	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0146	NCA10	1	290316	6279917	Residential	19 William Cox Drive Richmond	60	55	P	63	57	64	57	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0147	NCA10	1	290290	6279906	Residential	21 William Cox Drive Richmond	60	55	P	63	57	64	57	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0148	NCA10	1	290273	6279906	Residential	23 William Cox Drive Richmond	60	55	P	61	55	62	56	0.1	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0149	NCA10	1	290213	6279877	Residential	25 William Cox Drive Richmond	60	55	P	63	56	63	57	0.1	0	-	-	-	-	-	-	-	-
NCA10.RES.0150	NCA10	1	290181	6279870	Residential	27 William Cox Drive Richmond	60	55	P	60	54	61	54	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0151	NCA10	1	290161	6279859	Residential	29 William Cox Drive Richmond	60	55	P	61	55	62	55	0.1	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0152	NCA10	1	290143	6279858	Residential	31 William Cox Drive Richmond	60	55	P	59	53	60	54	0.2	0.2	-	-	-	-	-	-	-	-
NCA10.RES.0153	NCA10	1	290130	6279852	Residential	33 William Cox Drive Richmond	60	55	P	60	54	61	54	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0154	NCA10	1	290103	6279832	Residential	35 William Cox Drive Richmond	60	55	P	62	56	63	57	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0155	NCA10	1	290082	6279824	Residential	37 William Cox Drive Richmond	60	55	P	62	56	63	57	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0156	NCA10	1	290069	6279824	Residential	39 William Cox Drive Richmond	60	55	P	60	54	61	55	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0157	NCA10	1	290050	6279818	Residential	41 William Cox Drive Richmond	60	55	P	60	54	61	55	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0158	NCA10	1	290038	6279806	Residential	43 William Cox Drive Richmond	60	55	P	63	56	64	57	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0158	NCA10	2	290038	6279806	Residential	43 William Cox Drive Richmond	60	55	P	64	58	65	59	0.2	0.1	-	-	-	-	-	-	-	-
NCA10.RES.0159	NCA10	1	290010	6279800	Residential	45 William Cox Drive Richmond	60	55	P	61	55	62	56	0.3	0.2	-	-	-	-	-	-	-	-
NCA10.RES.0160	NCA10	1	289990	6279791	Residential	47 William Cox Drive Richmond	60	55	P	62	56	63	56	0.3	0.2	-	-	-	-	-	-	-	-
NCA10.RES.0161	NCA10	1	289978	6279788	Residential	49 William Cox Drive Richmond	60	55	P	61	55	62	56	0.3	0.2	-	-	-	-	-	-	-	-
NCA10.RES.0162	NCA10	1	289950	6279783	Residential	51 William Cox Drive Richmond	60	55	P	58	53	60	53	0.4	0.3	-	-	-	-	-	-	-	-
NCA10.RES.0163	NCA10	1	289938	6279779	Residential	53 William Cox Drive Richmond	60	55	P	57	51	58	52	0.6	0.6	-	-	-	-	-	-	-	-
NCA10.RES.0164	NCA10	1	289926	6279768	Residential	55 William Cox Drive Richmond	60	55	P	59	53	61	54	0.4	0.4	-	-	-	-	-	-	-	-
NCA10.RES.0165	NCA10	1	289897	6279761	Residential	57 William Cox Drive Richmond	60	55	P	57	51	58	52	0.6	0.5	-	-	-	-	-	-	-	-
NCA10.RES.0166	NCA10	1	289883	6279779	Residential	59 William Cox Drive Richmond	59	54	P	50	44	53	47	3.7	3.7	-	-	-	-	-	-	-	-
NCA10.RES.0167	NCA10	1	289872	6279790	Residential	61 William Cox Drive Richmond	59	54	P	51	45	54	48	4	4	-	-	-	-	-	-	-	-
NCA10.RES.0168	NCA10	1	289861	6279799	Residential	63 William Cox Drive Richmond	59	54	P	51	45	54	48	3.9	3.8	-	-	-	-	-	-	-	-
NCA10.RES.0169	NCA10	1	289835	6279825	Residential	65 William Cox Drive Richmond	57	52	P	50	44	53	47	4.6	4.5	-	-	-	-	-	-	-	-
NCA10.RES.0170	NCA10	1	289819	6279844	Residential	67 William Cox Drive Richmond	57	52	P	50	44	54	47	6.4	6.2	-	-	-	-	-	-	-	-
NCA10.RES.0171	NCA10	1	289812	6279857	Residential	69 William Cox Drive Richmond	57	52	P	49	43	53	47	6.2	5.9	-	-	-	-	-	-	-	-
NCA10.RES.0172	NCA10	1	289797	6279865	Residential	71 William Cox Drive Richmond	56	51	P	49	43	52	46	6.8	6.6	-	-	-	-	-	-	-	-
NCA10.RES.0173	NCA10	1	289767	6279896	Residential	73 William Cox Drive Richmond	56	51	P	49	43	54	48	9.5	9.1	-	-	-	-	-	-	-	-
NCA10.RES.0174	NCA10	1	289760	6279909	Residential	75 William Cox Drive Richmond	55	50	P	48	42	54	48	9.6	9.3	-	-	-	-	-	-	-	-
NCA10.RES.0175	NCA10	1	289754	6279914	Residential	77 William Cox Drive Richmond	55	50	P	48	42	53	46	8.4	8.1	-	-	-	-	-	-	-	-
NCA10.RES.0176	NCA10	1	289743	6279919	Residential	79 William Cox Drive Richmond	55	50	P	48	42	53	47	8.1	7.7	-	-	-	-	-	-	-	-
NCA10.RES.0177	NCA10	1	289729	6279942	Residential	81 William Cox Drive Richmond	55	50	P	48	42	53	46	9.4	9.1	-	-	-	-	-	-	-	-
NCA10.RES.0178	NCA10	1	289720	6279949	Residential	83 William Cox Drive Richmond	55	50	P	48	42	53	46	9.2	9	-	-	-	-	-	-	-	-
NCA10.RES.0179	NCA10	1	289710	6279958	Residential	85 William Cox Drive Richmond	55	50	P	48	42	53	47	9.5	9.3	-	-	-	-	-	-	-	-
NCA10.RES.0180	NCA10	1	289700	6279983	Residential	87 William Cox Drive Richmond	55	50	P	49	43	54	48	10.3	10.1	-	-	-	-	-	-	-	-
NCA10.RES.0181	NCA10	1	289705	6280007	Residential	91 William Cox Drive Richmond	55	50	P	51	44	54	48	9.1	8.9	-	-	-	-	-	-	-	-
NCA10.RES.0182	NCA10	1	289722	6280022	Residential	93 William Cox Drive Richmond	55	50	P	51	45	54	48	7.6	7.3	-	-	-	-	-	-	-	-
NCA10.RES.0183	NCA10	1	289732	6280031	Residential	95 William Cox Drive Richmond	55	50	P	51	45	55	49	7.6	7.4	-	-	-	-	-	-	-	-
NCA10.RES.0184	NCA10	1	289744	6280040	Residential	97 William Cox Drive Richmond	55	50	P	51	45	55	49	7.5	7.2	-	-	-	-	-	-	-	-
NCA10.RES.0184	NCA10	2	289744	6280040	Residential	97 William Cox Drive Richmond	55	50	P	52	46	56	50	7.2	6.9	Y	-	-	-	-	-	Y	-
NCA10.RES.0185	NCA10	1	289782	6280072	Residential	103 William Cox Drive Richmond	56	51	P	50	44	54	48	9.5	9.5	-	-	-	-	-	-	-	-
NCA10.RES.0186	NCA10	1	289803	6280087	Residential	105 William Cox Drive Richmond	56	51	P	51	46	53	47	4.3	4.1	-	-	-	-	-	-	-	-
NCA10.RES.0187	NCA10	1	289842	6280091	Residential	107 William Cox Drive Richmond	56	51	P	52	46	53	47	4.7	4.5	-	-	-	-	-	-	-	-
NCA10.RES.0188	NCA10	1	289908	6280118	Residential	109 William Cox Drive Richmond	57	52	P	52	46	53	47	3.4	3.2	-	-	-	-	-	-	-	-
NCA10.RES.0189	NCA10	1	290467	6280039	Residential	2 William Cox Drive Richmond	60	55	P	54	48	55	48	0.4	0.3	-	-	-	-	-	-	-	-
NCA10.RES.0190	NCA10	1	290455	6280032	Residential	4 William Cox Drive Richmond	60	55	P	54	48	55	48	0.4	0.3	-	-	-	-	-	-	-	-
NCA10.RES.0191	NCA10	1	290402	6280006	Residential	6 William Cox Drive Richmond	60	55	P	52	46	53	47	0.6	0.6	-	-	-	-	-	-	-	-
NCA10.RES.0192	NCA10	1	290418	6280012	Residential	6 William Cox Drive Richmond	60	55	P	52	46	53	47	0.6	0.5	-	-	-	-	-	-	-	-
NCA10.RES.0193	NCA10	1	290147	6280183	Residential	16 William Cox Drive Richmond	60	55	P	53	47	53	48	2	1.8	-	-	-	-	-	-	-	-
NCA10.RES.0193	NCA10	2	290147	6280183	Residential	16 William Cox Drive Richmond	60	55	P	54	48	54	48	1.9	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0193	NCA10	3	290147	6280183	Residential	16 William Cox Drive Richmond	60	55	P	54	48	54	49	2	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0194	NCA10	1	290185	6279921	Residential	18 William Cox Drive Richmond	60	55	P	53	47	54	48	0.7	0.7	-	-	-	-	-	-	-	-
NCA10.RES.0195	NCA10	1	290131	6279897	Residential	20 William Cox Drive Richmond	60	55	P	52	46	53	47	0.9	0.9	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA10.RES.0196	NCA10	1	290110	6279892	Residential	22 William Cox Drive Richmond	60	55	P	52	46	53	47	1	1	-	-	-	-	-	-	-	-
NCA10.RES.0197	NCA10	1	290096	6279887	Residential	24 William Cox Drive Richmond	60	55	P	52	46	53	47	1.1	1.1	-	-	-	-	-	-	-	-
NCA10.RES.0198	NCA10	1	290075	6279879	Residential	26 William Cox Drive Richmond	60	55	P	52	46	53	47	1.1	1.1	-	-	-	-	-	-	-	-
NCA10.RES.0199	NCA10	1	290063	6279874	Residential	28 William Cox Drive Richmond	60	55	P	51	45	53	47	1.3	1.3	-	-	-	-	-	-	-	-
NCA10.RES.0200	NCA10	1	290037	6279864	Residential	30 William Cox Drive Richmond	60	55	P	51	45	52	46	1.3	1.3	-	-	-	-	-	-	-	-
NCA10.RES.0201	NCA10	1	290023	6279858	Residential	32 William Cox Drive Richmond	60	55	P	51	45	52	46	1.4	1.4	-	-	-	-	-	-	-	-
NCA10.RES.0202	NCA10	1	289999	6279848	Residential	34 William Cox Drive Richmond	60	55	P	51	45	53	47	1.6	1.6	-	-	-	-	-	-	-	-
NCA10.RES.0203	NCA10	1	289973	6279838	Residential	36 William Cox Drive Richmond	60	55	P	51	44	53	46	1.9	1.9	-	-	-	-	-	-	-	-
NCA10.RES.0204	NCA10	1	289959	6279833	Residential	38 William Cox Drive Richmond	60	55	P	51	45	53	47	2	2	-	-	-	-	-	-	-	-
NCA10.RES.0205	NCA10	1	289944	6279830	Residential	40 William Cox Drive Richmond	60	55	P	51	45	53	47	2.1	2.1	-	-	-	-	-	-	-	-
NCA10.RES.0206	NCA10	1	289927	6279828	Residential	42 William Cox Drive Richmond	59	54	P	51	45	53	47	2.6	2.6	-	-	-	-	-	-	-	-
NCA10.RES.0207	NCA10	1	289899	6279835	Residential	44 William Cox Drive Richmond	58	53	P	50	44	53	47	4	4	-	-	-	-	-	-	-	-
NCA10.RES.0207	NCA10	2	289910	6279831	Residential	44 William Cox Drive Richmond	59	54	P	53	47	56	50	3	2.9	-	-	-	-	-	-	-	-
NCA10.RES.0208	NCA10	1	289886	6279845	Residential	46 William Cox Drive Richmond	58	53	P	50	44	53	47	4.7	4.7	-	-	-	-	-	-	-	-
NCA10.RES.0209	NCA10	1	289874	6279854	Residential	48 William Cox Drive Richmond	58	53	P	50	44	53	47	5.1	5.1	-	-	-	-	-	-	-	-
NCA10.RES.0210	NCA10	1	289855	6279874	Residential	50 William Cox Drive Richmond	57	52	P	49	43	53	47	6	5.9	-	-	-	-	-	-	-	-
NCA10.RES.0211	NCA10	1	289850	6279881	Residential	52 William Cox Drive Richmond	57	52	P	49	43	53	47	6	6	-	-	-	-	-	-	-	-
NCA10.RES.0212	NCA10	1	289833	6279900	Residential	54 William Cox Drive Richmond	56	51	P	49	43	53	47	6.7	6.6	-	-	-	-	-	-	-	-
NCA10.RES.0213	NCA10	1	289820	6279913	Residential	56 William Cox Drive Richmond	56	51	P	49	43	54	47	7.3	7.2	-	-	-	-	-	-	-	-
NCA10.RES.0214	NCA10	1	289815	6279918	Residential	58 William Cox Drive Richmond	56	51	P	49	43	54	48	7.4	7.3	-	-	-	-	-	-	-	-
NCA10.RES.0215	NCA10	1	289802	6279932	Residential	60 William Cox Drive Richmond	56	51	P	49	43	54	47	7.8	7.7	-	-	-	-	-	-	-	-
NCA10.RES.0216	NCA10	1	289790	6279946	Residential	62 William Cox Drive Richmond	56	51	P	49	43	54	48	8.1	7.9	-	-	-	-	-	-	-	-
NCA10.RES.0217	NCA10	1	289780	6279955	Residential	64 William Cox Drive Richmond	55	50	P	49	43	53	47	8.5	8.3	-	-	-	-	-	-	-	-
NCA10.RES.0218	NCA10	1	289755	6279976	Residential	66 William Cox Drive Richmond	55	50	P	48	42	53	47	9.6	9.5	-	-	-	-	-	-	-	-
NCA10.RES.0219	NCA10	1	289768	6279998	Residential	68 William Cox Drive Richmond	55	50	P	49	43	53	46	6.5	6.2	-	-	-	-	-	-	-	-
NCA10.RES.0220	NCA10	1	289773	6280003	Residential	70 William Cox Drive Richmond	55	50	P	49	43	53	47	6.5	6.2	-	-	-	-	-	-	-	-
NCA10.RES.0221	NCA10	1	289789	6280011	Residential	72 William Cox Drive Richmond	56	51	P	48	42	53	47	8.1	8	-	-	-	-	-	-	-	-
NCA10.RES.0222	NCA10	1	289849	6280043	Residential	78 William Cox Drive Richmond	56	51	P	48	42	51	45	6	5.9	-	-	-	-	-	-	-	-
NCA10.RES.0223	NCA10	1	289879	6280051	Residential	80 William Cox Drive Richmond	57	52	P	51	45	52	46	4	3.9	-	-	-	-	-	-	-	-
NCA12.OCC.0297	NCA12	1	290768	6279318	Other (Childcare)	24 Laurence Street Hobartville	45	-	H	46	44	49	46	3.4	3.2	Y	-	-	-	-	-	Y	-
NCA12.OED.0048	NCA12	1	290539	6279593	Other (Educational)	15 Catchpole Avenue Hobartville	50	-	H	48	45	49	46	2	2	-	-	-	-	-	-	-	-
NCA12.OED.0049	NCA12	1	290553	6279569	Other (Educational)	19 Catchpole Avenue Hobartville	50	-	H	47	45	48	46	1.8	1.8	-	-	-	-	-	-	-	-
NCA12.OED.0621	NCA12	1	290439	6279520	Other (Educational)	26 Thompson Avenue Hobartville	50	-	H	48	45	51	49	4.6	4.5	Y	-	-	-	-	-	Y	-
NCA12.OED.0634	NCA12	1	290494	6279585	Other (Educational)	25 Valder Avenue Hobartville	50	-	H	48	45	50	47	3.4	3.4	-	-	-	-	-	-	-	-
NCA12.OED.0653	NCA12	1	290472	6279504	Other (Educational)	16 Valder Avenue Hobartville	50	-	H	47	44	50	48	4.9	4.7	-	-	-	-	-	-	-	-
NCA12.OED.0654	NCA12	1	290500	6279534	Other (Educational)	16 Valder Avenue Hobartville	50	-	H	46	43	49	46	3.6	3.6	-	-	-	-	-	-	-	-
NCA12.OED.0654	NCA12	2	290500	6279534	Other (Educational)	16 Valder Avenue Hobartville	50	-	H	49	46	52	49	4.5	4.4	Y	-	-	-	-	-	Y	-
NCA12.OOA.0290	NCA12	1	290612	6279319	Other (Outdoor Active)	35 Laurence Street Hobartville	60	-	P	43	38	47	41	4.7	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0001	NCA12	1	290385	6278984	Residential	1 Anderson Avenue Hobartville	55	50	P	53	47	57	51	11.6	10.2	Y	Y	-	-	-	-	Y	-
NCA12.RES.0002	NCA12	1	290405	6279002	Residential	3 Anderson Avenue Hobartville	55	50	P	47	42	53	47	11.2	10	-	-	-	-	-	-	-	-
NCA12.RES.0003	NCA12	1	290412	6278978	Residential	6 Anderson Avenue Hobartville	55	50	P	49	44	55	49	10.6	9.9	-	-	-	-	-	-	-	-
NCA12.RES.0003	NCA12	2	290414	6278973	Residential	6 Anderson Avenue Hobartville	55	50	P	52	46	60	54	12.8	12.1	Y	Y	Y	-	-	-	Y	-
NCA12.RES.0004	NCA12	1	290334	6279428	Residential	1 Atkins Crescent Hobartville	56	51	P	45	39	49	43	6.5	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0004	NCA12	2	290334	6279428	Residential	1 Atkins Crescent Hobartville	56	51	P	47	41	52	46	5.9	5.8	-	-	-	-	-	-	-	-
NCA12.RES.0005	NCA12	1	290364	6279443	Residential	3 Atkins Crescent Hobartville	56	51	P	46	40	49	43	4.6	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0006	NCA12	1	290406	6279418	Residential	5 Atkins Crescent Hobartville	56	51	P	45	39	49	43	6.2	6.1	-	-	-	-	-	-	-	-
NCA12.RES.0007	NCA12	1	290420	6279393	Residential	7 Atkins Crescent Hobartville	56	51	P	45	39	50	44	5.9	5.8	-	-	-	-	-	-	-	-
NCA12.RES.0008	NCA12	1	290434	6279369	Residential	9 Atkins Crescent Hobartville	55	50	P	45	39	50	44	6	5.9	-	-	-	-	-	-	-	-
NCA12.RES.0009	NCA12	1	290438	6279337	Residential	11 Atkins Crescent Hobartville	55	50	P	45	40	49	44	5.4	5.4	-	-	-	-	-	-	-	-
NCA12.RES.0010	NCA12	1	290426	6279309	Residential	13 Atkins Crescent Hobartville	55	50	P	45	40	49	43	5.1	5.1	-	-	-	-	-	-	-	-
NCA12.RES.0011	NCA12	1	290350	6279437	Residential	2 Atkins Crescent Hobartville	56	51	P	45	39	48	43	4.4	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0012	NCA12	1	290386	6279429	Residential	4 Atkins Crescent Hobartville	56	50	P	44	38	49	43	6.5	6.2	-	-	-	-	-	-	-	-
NCA12.RES.0013	NCA12	1	290409	6279410	Residential	6 Atkins Crescent Hobartville	56	51	P	45	39	50	44	5.9	5.7	-	-	-	-	-	-	-	-
NCA12.RES.0014	NCA12	1	290429	6279379	Residential	8 Atkins Crescent Hobartville	56	51	P	45	39	50	44	6.2	6.1	-	-	-	-	-	-	-	-
NCA12.RES.0015	NCA12	1	290441	6279350	Residential	10 Atkins Crescent Hobartville	55	50	P	46	40	50	44	5.4	5.3	-	-	-	-	-	-	-	-
NCA12.RES.0016	NCA12	1	290432	6279319	Residential	12 Atkins Crescent Hobartville	55	50	P	45	39	49	43	5.6	5.5	-	-	-	-	-	-	-	-
NCA12.RES.0017	NCA12	1	290017	6279451	Residential	1 Bell Avenue Hobartville	55	50	P	48	42	53	47	7.7	7.6	-	-	-	-	-	-	-	-
NCA12.RES.0018	NCA12	1	290017	6279433	Residential	3 Bell Avenue Hobartville	55	50	P	49	43	54	48	8.7	8.5	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
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										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0019	NCA12	1	290025	6279413	Residential	5 Bell Avenue Hobartville	55	50	P	50	44	55	49	9.6	9.4	-	-	-	-	-	-	-	-
NCA12.RES.0020	NCA12	1	290022	6279394	Residential	7 Bell Avenue Hobartville	55	50	P	54	48	57	51	11.3	10.7	Y	Y	-	-	-	-	Y	-
NCA12.RES.0021	NCA12	1	290071	6279437	Residential	2 Bell Avenue Hobartville	55	50	P	48	42	54	48	8.5	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0022	NCA12	1	290068	6279420	Residential	4 Bell Avenue Hobartville	55	50	P	49	43	55	49	8.7	8.5	-	-	-	-	-	-	-	-
NCA12.RES.0023	NCA12	1	290070	6279393	Residential	6 Bell Avenue Hobartville	55	50	P	50	44	56	50	11.1	10.8	Y	-	-	-	-	-	Y	-
NCA12.RES.0026	NCA12	1	290385	6279887	Residential	23 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0027	NCA12	1	290357	6279875	Residential	25 Castlereagh Road Hobartville	60	55	P	63	57	64	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0028	NCA12	1	290320	6279862	Residential	27 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0029	NCA12	1	290296	6279850	Residential	29 Castlereagh Road Hobartville	60	55	P	63	57	64	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0030	NCA12	1	290281	6279845	Residential	31 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0031	NCA12	1	290242	6279829	Residential	33 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0032	NCA12	1	290208	6279816	Residential	35 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0033	NCA12	1	290184	6279807	Residential	37 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0034	NCA12	1	290166	6279798	Residential	39 Castlereagh Road Hobartville	60	55	P	64	58	64	58	0.1	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0035	NCA12	1	290137	6279786	Residential	41 Castlereagh Road Hobartville	60	55	P	64	58	64	58	0.1	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0036	NCA12	1	290120	6279779	Residential	43 Castlereagh Road Hobartville	60	55	P	63	57	64	58	0.1	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0037	NCA12	1	290080	6279764	Residential	45 Castlereagh Road Hobartville	60	55	P	63	57	64	58	0.2	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0038	NCA12	1	290060	6279756	Residential	47 Castlereagh Road Hobartville	60	55	P	63	57	64	58	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0039	NCA12	1	290037	6279752	Residential	49 Castlereagh Road Hobartville	60	55	P	65	59	66	59	0.2	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0039	NCA12	2	290037	6279752	Residential	49 Castlereagh Road Hobartville	60	55	P	66	60	67	61	0.2	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0040	NCA12	1	289996	6279729	Residential	51 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.2	0.2	-	-	-	-	-	-	-	-
NCA12.RES.0041	NCA12	1	289981	6279723	Residential	53 Castlereagh Road Hobartville	60	55	P	64	58	65	58	0.3	0.2	-	-	-	-	-	-	-	-
NCA12.RES.0042	NCA12	1	289925	6279703	Residential	57 Castlereagh Road Hobartville	60	55	P	64	58	65	59	0.4	0.3	-	-	-	-	-	-	-	-
NCA12.RES.0043	NCA12	1	289887	6279689	Residential	59 Castlereagh Road Hobartville	60	55	P	64	58	65	59	0.6	0.5	-	-	-	-	-	-	-	-
NCA12.RES.0043	NCA12	2	289882	6279674	Residential	59 Castlereagh Road Hobartville	60	55	P	59	53	62	55	3.3	3.2	Y	-	-	-	-	-	Y	-
NCA12.RES.0044	NCA12	1	289867	6279683	Residential	61 Castlereagh Road Hobartville	60	55	P	64	58	65	59	0.9	0.8	-	-	-	-	-	-	-	-
NCA12.RES.0045	NCA12	1	289828	6279671	Residential	63 Castlereagh Road Hobartville	60	55	P	64	58	65	59	3.2	3.1	-	-	Y	-	-	-	Y	Y
NCA12.RES.0046	NCA12	1	289807	6279665	Residential	65 Castlereagh Road Hobartville	60	55	P	64	58	65	59	5.8	5.5	-	-	Y	-	-	-	Y	Y
NCA12.RES.0047	NCA12	1	289779	6279650	Residential	67 Castlereagh Road Hobartville	58	53	P	64	58	67	60	14.3	13.5	Y	Y	Y	Y	Y	Y	Y	Y
NCA12.RES.0047	NCA12	2	289779	6279650	Residential	67 Castlereagh Road Hobartville	58	53	P	65	59	68	62	13.6	13	Y	Y	Y	Y	Y	Y	Y	Y
NCA12.RES.0050	NCA12	1	290391	6279804	Residential	2 Catchpole Avenue Hobartville	60	55	P	49	43	50	44	1	1	-	-	-	-	-	-	-	-
NCA12.RES.0051	NCA12	1	290384	6279784	Residential	4 Catchpole Avenue Hobartville	60	54	P	48	42	50	44	2	2	-	-	-	-	-	-	-	-
NCA12.RES.0052	NCA12	1	290387	6279765	Residential	6 Catchpole Avenue Hobartville	59	53	P	47	41	49	43	2.5	2.6	-	-	-	-	-	-	-	-
NCA12.RES.0053	NCA12	1	290418	6279755	Residential	8 Catchpole Avenue Hobartville	59	53	P	47	41	48	42	1	0.9	-	-	-	-	-	-	-	-
NCA12.RES.0054	NCA12	1	290418	6279726	Residential	10 Catchpole Avenue Hobartville	58	52	P	46	40	48	42	2.5	2.5	-	-	-	-	-	-	-	-
NCA12.RES.0055	NCA12	1	290421	6279711	Residential	12 Catchpole Avenue Hobartville	58	52	P	46	40	48	42	2.7	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0056	NCA12	1	290423	6279706	Residential	14 Catchpole Avenue Hobartville	59	53	P	47	41	48	42	2.2	2.2	-	-	-	-	-	-	-	-
NCA12.RES.0057	NCA12	1	290439	6279690	Residential	16 Catchpole Avenue Hobartville	58	52	P	46	40	48	42	2.7	2.8	-	-	-	-	-	-	-	-
NCA12.RES.0058	NCA12	1	290451	6279671	Residential	18 Catchpole Avenue Hobartville	57	51	P	45	39	48	42	3.2	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0059	NCA12	1	290465	6279668	Residential	20 Catchpole Avenue Hobartville	58	52	P	46	40	48	42	2	2.1	-	-	-	-	-	-	-	-
NCA12.RES.0060	NCA12	1	290280	6279259	Residential	1 Clarke Avenue Hobartville	55	50	P	46	40	51	45	8.1	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0061	NCA12	1	290276	6279243	Residential	3 Clarke Avenue Hobartville	55	50	P	45	39	51	46	9.2	8.7	-	-	-	-	-	-	-	-
NCA12.RES.0062	NCA12	1	290255	6279239	Residential	5 Clarke Avenue Hobartville	55	50	P	46	40	53	47	9.4	9.1	-	-	-	-	-	-	-	-
NCA12.RES.0063	NCA12	1	290243	6279255	Residential	7 Clarke Avenue Hobartville	55	50	P	46	40	53	47	9.3	9	-	-	-	-	-	-	-	-
NCA12.RES.0064	NCA12	1	290228	6279273	Residential	9 Clarke Avenue Hobartville	55	50	P	46	40	52	47	9.3	9	-	-	-	-	-	-	-	-
NCA12.RES.0065	NCA12	1	290225	6279281	Residential	11 Clarke Avenue Hobartville	55	50	P	46	40	52	46	8.9	8.7	-	-	-	-	-	-	-	-
NCA12.RES.0066	NCA12	1	290207	6279296	Residential	13 Clarke Avenue Hobartville	55	50	P	46	40	52	46	8.9	8.7	-	-	-	-	-	-	-	-
NCA12.RES.0067	NCA12	1	290199	6279310	Residential	15 Clarke Avenue Hobartville	55	50	P	46	40	52	46	8.8	8.5	-	-	-	-	-	-	-	-
NCA12.RES.0068	NCA12	1	290189	6279319	Residential	17 Clarke Avenue Hobartville	55	50	P	47	41	52	47	8.4	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0069	NCA12	1	290175	6279335	Residential	19 Clarke Avenue Hobartville	55	50	P	47	41	52	47	8.1	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0070	NCA12	1	290172	6279351	Residential	21 Clarke Avenue Hobartville	55	50	P	47	41	52	46	7.7	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0071	NCA12	1	290164	6279363	Residential	23 Clarke Avenue Hobartville	55	50	P	47	41	53	47	7.7	7.5	-	-	-	-	-	-	-	-
NCA12.RES.0072	NCA12	1	290311	6279233	Residential	2 Clarke Avenue Hobartville	55	50	P	46	40	51	45	6.8	6.6	-	-	-	-	-	-	-	-
NCA12.RES.0073	NCA12	1	290304	6279211	Residential	4 Clarke Avenue Hobartville	55	50	P	44	39	51	45	9.8	9.2	-	-	-	-	-	-	-	-
NCA12.RES.0074	NCA12	1	290283	6279200	Residential	6 Clarke Avenue Hobartville	55	50	P	46	40	53	47	9.8	9.5	-	-	-	-	-	-	-	-
NCA12.RES.0075	NCA12	1	290254	6279169	Residential	8 Clarke Avenue Hobartville	55	50	P	47	41	53	47	11.1	10.5	-	-	-	-	-	-	-	-
NCA12.RES.0076	NCA12	1	290238	6279186	Residential	10 Clarke Avenue Hobartville	55	50	P	47	41	53	48	11.1	10.6	-	-	-	-	-	-	-	-
NCA12.RES.0077	NCA12	1	290229	6279197	Residential	12 Clarke Avenue Hobartville	55	50	P	47	41	53	47	10.6	10.3	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0078	NCA12	1	290215	6279211	Residential	14 Clarke Avenue Hobartville	55	50	P	47	41	53	47	9.9	9.6	-	-	-	-	-	-	-	-
NCA12.RES.0079	NCA12	1	290205	6279221	Residential	16 Clarke Avenue Hobartville	55	50	P	47	42	53	47	10.3	9.8	-	-	-	-	-	-	-	-
NCA12.RES.0080	NCA12	1	290203	6279235	Residential	18 Clarke Avenue Hobartville	55	50	P	46	41	53	47	10.1	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0081	NCA12	1	290188	6279245	Residential	20 Clarke Avenue Hobartville	55	50	P	46	40	52	46	10	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0082	NCA12	1	290175	6279255	Residential	22 Clarke Avenue Hobartville	55	50	P	47	41	52	46	10	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0083	NCA12	1	290170	6279272	Residential	24 Clarke Avenue Hobartville	55	50	P	46	40	52	46	9.9	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0084	NCA12	1	290160	6279284	Residential	26 Clarke Avenue Hobartville	55	50	P	46	40	52	46	10	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0085	NCA12	1	290146	6279290	Residential	28 Clarke Avenue Hobartville	55	50	P	46	40	52	47	10.2	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0086	NCA12	1	290133	6279305	Residential	30 Clarke Avenue Hobartville	55	50	P	47	41	53	47	10.3	10	-	-	-	-	-	-	-	-
NCA12.RES.0086	NCA12	2	290133	6279305	Residential	30 Clarke Avenue Hobartville	55	50	P	50	44	58	52	11.5	11.2	Y	Y	-	-	-	-	Y	-
NCA12.RES.0087	NCA12	1	290128	6279316	Residential	32 Clarke Avenue Hobartville	55	50	P	47	41	53	47	8.8	8.4	-	-	-	-	-	-	-	-
NCA12.RES.0088	NCA12	1	290122	6279340	Residential	34 Clarke Avenue Hobartville	55	50	P	47	41	52	46	8.7	8.5	-	-	-	-	-	-	-	-
NCA12.RES.0089	NCA12	1	290127	6279375	Residential	36 Clarke Avenue Hobartville	55	50	P	48	42	53	47	6.9	6.7	-	-	-	-	-	-	-	-
NCA12.RES.0090	NCA12	1	290255	6279396	Residential	1 Cornwell Avenue Hobartville	55	50	P	46	40	51	46	6.9	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0091	NCA12	1	290259	6279385	Residential	3 Cornwell Avenue Hobartville	55	50	P	47	41	52	46	6.5	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0092	NCA12	1	290266	6279366	Residential	5 Cornwell Avenue Hobartville	55	50	P	46	41	52	46	6.9	6.8	-	-	-	-	-	-	-	-
NCA12.RES.0093	NCA12	1	290280	6279346	Residential	7 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.2	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0093	NCA12	2	290280	6279346	Residential	7 Cornwell Avenue Hobartville	55	50	P	47	41	54	48	8.2	8	-	-	-	-	-	-	-	-
NCA12.RES.0094	NCA12	1	290291	6279331	Residential	9 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0095	NCA12	1	290304	6279316	Residential	11 Cornwell Avenue Hobartville	55	50	P	46	40	51	46	7.8	7.6	-	-	-	-	-	-	-	-
NCA12.RES.0096	NCA12	1	290318	6279300	Residential	13 Cornwell Avenue Hobartville	55	50	P	46	40	52	46	7.8	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0097	NCA12	1	290334	6279282	Residential	15 Cornwell Avenue Hobartville	55	50	P	46	40	52	46	8	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0098	NCA12	1	290343	6279273	Residential	17 Cornwell Avenue Hobartville	55	50	P	46	40	51	46	8.2	8	-	-	-	-	-	-	-	-
NCA12.RES.0099	NCA12	1	290355	6279259	Residential	19 Cornwell Avenue Hobartville	55	50	P	45	39	51	46	8.4	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0100	NCA12	1	290374	6279243	Residential	21 Cornwell Avenue Hobartville	55	50	P	45	40	51	45	8.2	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0101	NCA12	1	290388	6279235	Residential	23 Cornwell Avenue Hobartville	55	50	P	44	39	51	45	9.5	9.2	-	-	-	-	-	-	-	-
NCA12.RES.0101	NCA12	2	290388	6279235	Residential	23 Cornwell Avenue Hobartville	55	50	P	46	40	53	47	9.2	8.9	-	-	-	-	-	-	-	-
NCA12.RES.0102	NCA12	1	290397	6279222	Residential	25 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.7	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0103	NCA12	1	290404	6279214	Residential	27 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.3	8	-	-	-	-	-	-	-	-
NCA12.RES.0104	NCA12	1	290414	6279203	Residential	29 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.2	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0105	NCA12	1	290426	6279188	Residential	31 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.4	8.1	-	-	-	-	-	-	-	-
NCA12.RES.0106	NCA12	1	290442	6279170	Residential	33 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.3	8.1	-	-	-	-	-	-	-	-
NCA12.RES.0107	NCA12	1	290449	6279162	Residential	35 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.2	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0108	NCA12	1	290462	6279145	Residential	37 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.3	8	-	-	-	-	-	-	-	-
NCA12.RES.0109	NCA12	1	290201	6279381	Residential	2 Cornwell Avenue Hobartville	55	50	P	47	41	52	46	6.7	6.6	-	-	-	-	-	-	-	-
NCA12.RES.0110	NCA12	1	290215	6279364	Residential	4 Cornwell Avenue Hobartville	55	50	P	46	40	51	45	7.4	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0111	NCA12	1	290217	6279348	Residential	6 Cornwell Avenue Hobartville	55	50	P	46	40	51	45	7.4	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0112	NCA12	1	290228	6279328	Residential	8 Cornwell Avenue Hobartville	55	50	P	46	40	51	45	7.6	7.4	-	-	-	-	-	-	-	-
NCA12.RES.0113	NCA12	1	290235	6279322	Residential	10 Cornwell Avenue Hobartville	55	50	P	45	40	51	45	7.7	7.5	-	-	-	-	-	-	-	-
NCA12.RES.0114	NCA12	1	290249	6279302	Residential	12 Cornwell Avenue Hobartville	55	50	P	46	40	51	46	8.3	8.2	-	-	-	-	-	-	-	-
NCA12.RES.0115	NCA12	1	290255	6279287	Residential	14 Cornwell Avenue Hobartville	55	50	P	46	40	51	45	8	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0116	NCA12	1	290273	6279281	Residential	16 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.5	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0117	NCA12	1	290300	6279271	Residential	18 Cornwell Avenue Hobartville	55	50	P	44	39	50	45	8.2	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0118	NCA12	1	290322	6279243	Residential	20 Cornwell Avenue Hobartville	55	50	P	46	40	50	45	6.4	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0119	NCA12	1	290334	6279218	Residential	22 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.8	8.4	-	-	-	-	-	-	-	-
NCA12.RES.0120	NCA12	1	290341	6279199	Residential	24 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.5	8.2	-	-	-	-	-	-	-	-
NCA12.RES.0121	NCA12	1	290353	6279189	Residential	26 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	8.7	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0122	NCA12	1	290362	6279184	Residential	28 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	9	8.8	-	-	-	-	-	-	-	-
NCA12.RES.0123	NCA12	1	290375	6279168	Residential	30 Cornwell Avenue Hobartville	55	50	P	45	39	50	44	8.5	8.2	-	-	-	-	-	-	-	-
NCA12.RES.0124	NCA12	1	290387	6279153	Residential	32 Cornwell Avenue Hobartville	55	50	P	44	39	50	44	7.9	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0125	NCA12	1	290400	6279146	Residential	34 Cornwell Avenue Hobartville	55	50	P	45	39	50	45	9	8.7	-	-	-	-	-	-	-	-
NCA12.RES.0126	NCA12	1	290411	6279132	Residential	36 Cornwell Avenue Hobartville	55	50	P	45	39	51	45	9.2	8.8	-	-	-	-	-	-	-	-
NCA12.RES.0127	NCA12	1	290415	6279131	Residential	38 Cornwell Avenue Hobartville	55	50	P	44	38	50	44	8.8	8.4	-	-	-	-	-	-	-	-
NCA12.RES.0128	NCA12	1	290426	6279106	Residential	40 Cornwell Avenue Hobartville	55	50	P	44	39	50	45	8.9	8.5	-	-	-	-	-	-	-	-
NCA12.RES.0129	NCA12	1	290436	6279099	Residential	42 Cornwell Avenue Hobartville	55	50	P	44	39	50	45	9	8.7	-	-	-	-	-	-	-	-
NCA12.RES.0130	NCA12	1	290723	6279034	Residential	1 Day Avenue Hobartville	56	50	P	44	38	48	42	6.3	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0130	NCA12	2	290723	6279034	Residential	1 Day Avenue Hobartville	57	52	P	46	41	50	44	5.6	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0131	NCA12	1	290712	6279046	Residential	3 Day Avenue Hobartville	57	51	P	45	39	48	43	5.5	4.9	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0132	NCA12	1	290704	6279058	Residential	5 Day Avenue Hobartville	56	51	P	44	39	48	43	5.9	5.2	-	-	-	-	-	-	-	-
NCA12.RES.0133	NCA12	1	290694	6279072	Residential	7 Day Avenue Hobartville	56	51	P	44	39	48	43	6.2	5.4	-	-	-	-	-	-	-	-
NCA12.RES.0134	NCA12	1	290685	6279080	Residential	9 Day Avenue Hobartville	56	51	P	44	39	48	43	5.9	5.2	-	-	-	-	-	-	-	-
NCA12.RES.0135	NCA12	1	290658	6279087	Residential	11 Day Avenue Hobartville	56	51	P	45	39	49	43	6	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0136	NCA12	1	290711	6278998	Residential	2 Day Avenue Hobartville	57	51	P	45	39	47	42	4.2	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0137	NCA12	1	290696	6279019	Residential	4 Day Avenue Hobartville	57	51	P	45	39	48	42	4.6	4.2	-	-	-	-	-	-	-	-
NCA12.RES.0138	NCA12	1	290677	6279011	Residential	6 Day Avenue Hobartville	55	50	P	43	38	47	42	5.6	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0139	NCA12	1	290669	6279025	Residential	8 Day Avenue Hobartville	56	51	P	44	39	48	42	5.9	5.1	-	-	-	-	-	-	-	-
NCA12.RES.0140	NCA12	1	290653	6279032	Residential	10 Day Avenue Hobartville	56	51	P	44	39	48	42	6.3	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0141	NCA12	1	290642	6279053	Residential	12 Day Avenue Hobartville	55	50	P	44	39	48	43	6.2	5.9	-	-	-	-	-	-	-	-
NCA12.RES.0143	NCA12	1	290395	6279862	Residential	29 Douglas Street Hobartville	60	55	P	50	44	51	45	0.7	0.7	-	-	-	-	-	-	-	-
NCA12.RES.0144	NCA12	1	290386	6279852	Residential	31 Douglas Street Hobartville	60	55	P	51	44	51	45	0.6	0.6	-	-	-	-	-	-	-	-
NCA12.RES.0145	NCA12	1	290368	6279846	Residential	33 Douglas Street Hobartville	60	55	P	50	44	51	45	0.8	0.7	-	-	-	-	-	-	-	-
NCA12.RES.0146	NCA12	1	290351	6279840	Residential	35 Douglas Street Hobartville	60	55	P	51	45	52	45	0.6	0.6	-	-	-	-	-	-	-	-
NCA12.RES.0146	NCA12	2	290351	6279840	Residential	35 Douglas Street Hobartville	60	55	P	56	50	57	50	0.7	0.7	-	-	-	-	-	-	-	-
NCA12.RES.0147	NCA12	1	290329	6279837	Residential	37 Douglas Street Hobartville	60	55	P	53	47	54	48	0.5	0.5	-	-	-	-	-	-	-	-
NCA12.RES.0148	NCA12	1	290319	6279825	Residential	39 Douglas Street Hobartville	60	55	P	52	46	53	46	0.7	0.7	-	-	-	-	-	-	-	-
NCA12.RES.0149	NCA12	1	290306	6279817	Residential	41 Douglas Street Hobartville	60	55	P	51	45	52	46	0.8	0.8	-	-	-	-	-	-	-	-
NCA12.RES.0150	NCA12	1	290285	6279816	Residential	43 Douglas Street Hobartville	60	55	P	54	48	55	49	0.7	0.7	-	-	-	-	-	-	-	-
NCA12.RES.0151	NCA12	1	290253	6279804	Residential	45 Douglas Street Hobartville	60	55	P	55	49	56	50	0.2	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0152	NCA12	1	290217	6279797	Residential	47 Douglas Street Hobartville	60	55	P	51	45	52	46	0.8	0.8	-	-	-	-	-	-	-	-
NCA12.RES.0153	NCA12	1	290236	6279793	Residential	47 Douglas Street Hobartville	60	55	P	53	47	54	47	0.6	0.6	-	-	-	-	-	-	-	-
NCA12.RES.0154	NCA12	1	290197	6279782	Residential	49 Douglas Street Hobartville	60	55	P	51	45	52	46	1.4	1.4	-	-	-	-	-	-	-	-
NCA12.RES.0155	NCA12	1	290280	6279757	Residential	46 Douglas Street Hobartville	60	55	P	51	45	52	46	0.9	0.9	-	-	-	-	-	-	-	-
NCA12.RES.0156	NCA12	1	290854	6279152	Residential	1 Ducker Avenue Hobartville	57	52	P	45	40	47	42	3.4	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0157	NCA12	1	290845	6279163	Residential	3 Ducker Avenue Hobartville	56	51	P	44	39	47	41	3.7	3	-	-	-	-	-	-	-	-
NCA12.RES.0158	NCA12	1	290832	6279172	Residential	5 Ducker Avenue Hobartville	56	51	P	44	39	47	42	4	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0158	NCA12	2	290832	6279172	Residential	5 Ducker Avenue Hobartville	58	53	P	46	41	49	43	3.9	3.2	-	-	-	-	-	-	-	-
NCA12.RES.0159	NCA12	1	290824	6279192	Residential	7 Ducker Avenue Hobartville	56	51	P	44	39	47	42	4.1	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0160	NCA12	1	290811	6279201	Residential	9 Ducker Avenue Hobartville	56	51	P	44	39	47	42	4.1	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0161	NCA12	1	290788	6279245	Residential	11A Ducker Avenue Hobartville	56	51	P	44	39	47	41	3.7	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0162	NCA12	1	290804	6279213	Residential	11 Ducker Avenue Hobartville	56	51	P	44	39	47	41	4	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0163	NCA12	1	290771	6279222	Residential	13A Ducker Avenue Hobartville	56	50	P	44	38	47	42	4.7	4.2	-	-	-	-	-	-	-	-
NCA12.RES.0164	NCA12	1	290812	6279120	Residential	2 Ducker Avenue Hobartville	56	51	P	44	39	46	41	3.3	2.6	-	-	-	-	-	-	-	-
NCA12.RES.0165	NCA12	1	290802	6279135	Residential	4 Ducker Avenue Hobartville	56	51	P	44	39	47	41	3.4	2.8	-	-	-	-	-	-	-	-
NCA12.RES.0166	NCA12	1	290791	6279140	Residential	6 Ducker Avenue Hobartville	56	51	P	44	39	47	42	4	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0167	NCA12	1	290780	6279151	Residential	8 Ducker Avenue Hobartville	55	50	P	43	38	46	41	4	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0168	NCA12	1	290745	6279185	Residential	10A Ducker Avenue Hobartville	56	51	P	44	39	48	42	5	4.6	-	-	-	-	-	-	-	-
NCA12.RES.0169	NCA12	1	290772	6279167	Residential	10 Ducker Avenue Hobartville	56	51	P	44	39	47	42	4.4	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0170	NCA12	1	290755	6279204	Residential	12 Ducker Avenue Hobartville	56	51	P	44	39	48	42	4.8	4.4	-	-	-	-	-	-	-	-
NCA12.RES.0171	NCA12	1	290883	6279180	Residential	2 Harold Avenue Hobartville	57	52	P	45	40	46	41	2.8	2.2	-	-	-	-	-	-	-	-
NCA12.RES.0172	NCA12	1	290869	6279192	Residential	4 Harold Avenue Hobartville	56	51	P	44	39	46	41	2.7	2.1	-	-	-	-	-	-	-	-
NCA12.RES.0173	NCA12	1	290878	6279214	Residential	6 Harold Avenue Hobartville	58	52	P	46	40	46	41	1.5	1.1	-	-	-	-	-	-	-	-
NCA12.RES.0174	NCA12	1	290852	6279211	Residential	8 Harold Avenue Hobartville	56	51	P	44	39	46	41	3.5	2.8	-	-	-	-	-	-	-	-
NCA12.RES.0175	NCA12	1	290839	6279225	Residential	10 Harold Avenue Hobartville	56	50	P	44	38	46	41	3.8	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0176	NCA12	1	290828	6279241	Residential	12 Harold Avenue Hobartville	56	51	P	44	39	46	41	3.5	3	-	-	-	-	-	-	-	-
NCA12.RES.0177	NCA12	1	290819	6279244	Residential	14 Harold Avenue Hobartville	56	51	P	44	39	46	41	3.5	3	-	-	-	-	-	-	-	-
NCA12.RES.0178	NCA12	1	290812	6279273	Residential	16 Harold Avenue Hobartville	57	51	P	45	39	47	41	3.6	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0179	NCA12	1	290303	6279182	Residential	1 Hill Avenue Hobartville	55	50	P	47	41	53	47	10.3	9.9	-	-	-	-	-	-	-	-
NCA12.RES.0180	NCA12	1	290323	6279171	Residential	3 Hill Avenue Hobartville	55	50	P	47	41	54	48	10.7	10.2	-	-	-	-	-	-	-	-
NCA12.RES.0181	NCA12	1	290274	6279140	Residential	2 Hill Avenue Hobartville	55	50	P	49	43	55	49	12	11.2	-	-	-	-	-	-	-	-
NCA12.RES.0182	NCA12	1	290280	6279144	Residential	4 Hill Avenue Hobartville	55	50	P	49	43	55	49	11.9	11.2	-	-	-	-	-	-	-	-
NCA12.RES.0183	NCA12	1	290314	6279484	Residential	1 Holborrow Avenue Hobartville	56	51	P	45	39	49	43	5.9	5.8	-	-	-	-	-	-	-	-
NCA12.RES.0184	NCA12	1	290303	6279502	Residential	3 Holborrow Avenue Hobartville	56	51	P	45	39	49	43	4.7	4.6	-	-	-	-	-	-	-	-
NCA12.RES.0185	NCA12	1	290298	6279513	Residential	5 Holborrow Avenue Hobartville	57	52	P	46	40	50	44	4.7	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0186	NCA12	1	290280	6279539	Residential	7 Holborrow Avenue Hobartville	57	52	P	47	41	50	44	3.5	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0187	NCA12	1	290276	6279581	Residential	9 Holborrow Avenue Hobartville	57	52	P	47	41	49	43	2.7	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0188	NCA12	1	290248	6279589	Residential	11 Holborrow Avenue Hobartville	57	52	P	47	41	50	44	4.2	4.2	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0189	NCA12	1	290250	6279598	Residential	13 Holborrow Avenue Hobartville	58	53	P	47	41	50	44	4.2	4.2	-	-	-	-	-	-	-	-
NCA12.RES.0190	NCA12	1	290239	6279624	Residential	15 Holborrow Avenue Hobartville	58	53	P	48	42	51	45	4.2	4.1	-	-	-	-	-	-	-	-
NCA12.RES.0191	NCA12	1	290204	6279665	Residential	17 Holborrow Avenue Hobartville	59	54	P	49	43	50	44	1.8	1.8	-	-	-	-	-	-	-	-
NCA12.RES.0192	NCA12	1	290198	6279642	Residential	17 Holborrow Avenue Hobartville	58	52	P	46	40	49	43	3.4	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0193	NCA12	1	290182	6279648	Residential	19 Holborrow Avenue Hobartville	58	53	P	47	41	50	44	3.7	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0193	NCA12	2	290183	6279653	Residential	19 Holborrow Avenue Hobartville	59	54	P	51	45	54	48	2.9	3	-	-	-	-	-	-	-	-
NCA12.RES.0194	NCA12	1	290178	6279669	Residential	19 Holborrow Avenue Hobartville	59	54	P	50	44	51	45	2	2	-	-	-	-	-	-	-	-
NCA12.RES.0195	NCA12	1	290164	6279667	Residential	21 Holborrow Avenue Hobartville	59	54	P	50	44	51	45	2	2	-	-	-	-	-	-	-	-
NCA12.RES.0196	NCA12	1	290147	6279663	Residential	23 Holborrow Avenue Hobartville	59	54	P	50	43	52	45	2.2	2.2	-	-	-	-	-	-	-	-
NCA12.RES.0197	NCA12	1	290128	6279656	Residential	25 Holborrow Avenue Hobartville	59	54	P	50	43	52	45	2.3	2.2	-	-	-	-	-	-	-	-
NCA12.RES.0198	NCA12	1	290113	6279651	Residential	27 Holborrow Avenue Hobartville	59	54	P	49	43	52	45	2.4	2.4	-	-	-	-	-	-	-	-
NCA12.RES.0199	NCA12	1	290051	6279628	Residential	29 Holborrow Avenue Hobartville	58	53	P	50	44	52	46	2.8	2.8	-	-	-	-	-	-	-	-
NCA12.RES.0200	NCA12	1	290026	6279616	Residential	31 Holborrow Avenue Hobartville	57	52	P	50	44	53	47	3	3	-	-	-	-	-	-	-	-
NCA12.RES.0201	NCA12	1	290010	6279612	Residential	33 Holborrow Avenue Hobartville	57	52	P	51	45	53	47	3	3.1	-	-	-	-	-	-	-	-
NCA12.RES.0202	NCA12	1	289997	6279608	Residential	35 Holborrow Avenue Hobartville	57	52	P	51	45	53	47	3.2	3.2	-	-	-	-	-	-	-	-
NCA12.RES.0203	NCA12	1	289975	6279600	Residential	37 Holborrow Avenue Hobartville	57	52	P	50	44	53	47	3.9	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0204	NCA12	1	289958	6279574	Residential	39 Holborrow Avenue Hobartville	56	51	P	49	43	54	48	7.3	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0205	NCA12	1	290347	6279517	Residential	2 Holborrow Avenue Hobartville	57	52	P	46	40	49	44	4.7	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0206	NCA12	1	290338	6279531	Residential	4 Holborrow Avenue Hobartville	57	52	P	46	40	50	44	4.9	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0207	NCA12	1	290334	6279538	Residential	6 Holborrow Avenue Hobartville	57	52	P	46	40	50	44	4.8	4.8	-	-	-	-	-	-	-	-
NCA12.RES.0208	NCA12	1	290326	6279553	Residential	8 Holborrow Avenue Hobartville	57	52	P	47	41	50	44	4.7	4.6	-	-	-	-	-	-	-	-
NCA12.RES.0209	NCA12	1	290318	6279570	Residential	10 Holborrow Avenue Hobartville	57	52	P	46	41	50	44	4.8	4.8	-	-	-	-	-	-	-	-
NCA12.RES.0210	NCA12	1	290309	6279586	Residential	12 Holborrow Avenue Hobartville	58	53	P	47	41	50	44	4.6	4.6	-	-	-	-	-	-	-	-
NCA12.RES.0211	NCA12	1	290302	6279599	Residential	14 Holborrow Avenue Hobartville	58	53	P	46	41	50	44	4.5	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0212	NCA12	1	290293	6279615	Residential	16 Holborrow Avenue Hobartville	58	53	P	47	41	50	44	4.3	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0213	NCA12	1	290282	6279635	Residential	18 Holborrow Avenue Hobartville	58	53	P	47	41	50	44	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0214	NCA12	1	290276	6279645	Residential	20 Holborrow Avenue Hobartville	59	53	P	47	41	50	44	3.9	4	-	-	-	-	-	-	-	-
NCA12.RES.0215	NCA12	1	290268	6279657	Residential	22 Holborrow Avenue Hobartville	59	53	P	47	41	50	44	4.1	4.1	-	-	-	-	-	-	-	-
NCA12.RES.0216	NCA12	1	290254	6279672	Residential	24 Holborrow Avenue Hobartville	59	53	P	47	41	51	45	4.3	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0217	NCA12	1	290240	6279682	Residential	26 Holborrow Avenue Hobartville	59	53	P	47	41	51	45	3.9	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0218	NCA12	1	290223	6279702	Residential	28 Holborrow Avenue Hobartville	59	54	P	49	43	51	45	2.4	2.5	-	-	-	-	-	-	-	-
NCA12.RES.0219	NCA12	1	290192	6279718	Residential	30 Holborrow Avenue Hobartville	60	55	P	50	44	51	45	1.2	1.2	-	-	-	-	-	-	-	-
NCA12.RES.0220	NCA12	1	290180	6279709	Residential	32 Holborrow Avenue Hobartville	60	55	P	49	43	50	44	1.1	1.1	-	-	-	-	-	-	-	-
NCA12.RES.0221	NCA12	1	290153	6279710	Residential	34 Holborrow Avenue Hobartville	60	55	P	50	44	52	45	1.5	1.5	-	-	-	-	-	-	-	-
NCA12.RES.0222	NCA12	1	290132	6279707	Residential	36 Holborrow Avenue Hobartville	60	55	P	50	44	52	45	1.6	1.6	-	-	-	-	-	-	-	-
NCA12.RES.0223	NCA12	1	290121	6279697	Residential	38 Holborrow Avenue Hobartville	59	54	P	49	43	51	45	1.8	1.8	-	-	-	-	-	-	-	-
NCA12.RES.0224	NCA12	1	290100	6279694	Residential	40 Holborrow Avenue Hobartville	59	54	P	50	44	52	46	1.7	1.8	-	-	-	-	-	-	-	-
NCA12.RES.0225	NCA12	1	290089	6279688	Residential	42 Holborrow Avenue Hobartville	59	54	P	50	44	52	46	1.8	1.9	-	-	-	-	-	-	-	-
NCA12.RES.0226	NCA12	1	290066	6279685	Residential	44 Holborrow Avenue Hobartville	59	54	P	50	44	52	45	1.9	1.9	-	-	-	-	-	-	-	-
NCA12.RES.0227	NCA12	1	290048	6279673	Residential	46 Holborrow Avenue Hobartville	59	54	P	51	45	53	46	1.9	1.9	-	-	-	-	-	-	-	-
NCA12.RES.0228	NCA12	1	290034	6279672	Residential	48 Holborrow Avenue Hobartville	59	54	P	51	45	53	47	1.8	1.8	-	-	-	-	-	-	-	-
NCA12.RES.0229	NCA12	1	290022	6279669	Residential	50 Holborrow Avenue Hobartville	59	54	P	52	46	54	47	1.6	1.7	-	-	-	-	-	-	-	-
NCA12.RES.0230	NCA12	1	290003	6279661	Residential	52 Holborrow Avenue Hobartville	59	54	P	53	47	54	48	1.5	1.5	-	-	-	-	-	-	-	-
NCA12.RES.0231	NCA12	1	289992	6279659	Residential	54 Holborrow Avenue Hobartville	59	54	P	53	47	55	49	1.5	1.5	-	-	-	-	-	-	-	-
NCA12.RES.0232	NCA12	1	289968	6279647	Residential	56 Holborrow Avenue Hobartville	58	53	P	53	47	55	48	1.4	1.4	-	-	-	-	-	-	-	-
NCA12.RES.0233	NCA12	1	289953	6279648	Residential	58 Holborrow Avenue Hobartville	58	53	P	53	47	55	48	1.4	1.3	-	-	-	-	-	-	-	-
NCA12.RES.0234	NCA12	1	289935	6279650	Residential	60 Holborrow Avenue Hobartville	58	53	P	53	47	55	49	1.4	1.4	-	-	-	-	-	-	-	-
NCA12.RES.0235	NCA12	1	290266	6279557	Residential	1 Hughes Avenue Hobartville	57	51	P	45	39	49	43	5.8	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0236	NCA12	1	290247	6279552	Residential	3 Hughes Avenue Hobartville	57	51	P	45	39	49	43	5.9	5.7	-	-	-	-	-	-	-	-
NCA12.RES.0237	NCA12	1	290223	6279549	Residential	5 Hughes Avenue Hobartville	57	52	P	47	41	51	45	5.1	5.2	-	-	-	-	-	-	-	-
NCA12.RES.0238	NCA12	1	290173	6279521	Residential	7 Hughes Avenue Hobartville	56	51	P	45	39	50	44	6.7	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0239	NCA12	1	290153	6279514	Residential	9 Hughes Avenue Hobartville	56	51	P	45	39	50	44	6.8	6.6	-	-	-	-	-	-	-	-
NCA12.RES.0240	NCA12	1	290142	6279509	Residential	11 Hughes Avenue Hobartville	55	50	P	45	39	51	45	7.3	7.1	-	-	-	-	-	-	-	-
NCA12.RES.0241	NCA12	1	290122	6279500	Residential	13 Hughes Avenue Hobartville	55	50	P	45	40	51	45	7.6	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0242	NCA12	1	290114	6279498	Residential	15 Hughes Avenue Hobartville	55	50	P	46	40	51	45	7.6	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0243	NCA12	1	290086	6279495	Residential	17 Hughes Avenue Hobartville	55	50	P	47	41	52	46	7.5	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0244	NCA12	1	290068	6279497	Residential	19 Hughes Avenue Hobartville	55	50	P	47	41	53	47	8.2	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0245	NCA12	1	290053	6279500	Residential	21 Hughes Avenue Hobartville	55	50	P	47	41	53	47	8.2	7.9	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0246	NCA12	1	290043	6279503	Residential	23 Hughes Avenue Hobartville	55	50	P	47	41	53	47	8	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0247	NCA12	1	290025	6279515	Residential	25 Hughes Avenue Hobartville	55	50	P	48	42	53	47	8	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0248	NCA12	1	290011	6279522	Residential	27 Hughes Avenue Hobartville	55	50	P	48	42	54	48	8.1	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0249	NCA12	1	289991	6279542	Residential	29 Hughes Avenue Hobartville	55	50	P	48	42	54	48	8	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0250	NCA12	1	289984	6279551	Residential	31 Hughes Avenue Hobartville	55	50	P	48	42	54	48	7.8	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0251	NCA12	1	289971	6279566	Residential	33 Hughes Avenue Hobartville	56	51	P	48	42	54	48	7.5	7.4	-	-	-	-	-	-	-	-
NCA12.RES.0252	NCA12	1	289917	6279633	Residential	35 Hughes Avenue Hobartville	57	52	P	50	44	55	49	6.8	6.6	-	-	-	-	-	-	-	-
NCA12.RES.0253	NCA12	1	289895	6279640	Residential	37 Hughes Avenue Hobartville	58	53	P	50	44	55	49	8	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0254	NCA12	1	289884	6279647	Residential	39 Hughes Avenue Hobartville	58	53	P	51	45	56	49	6.6	6.7	-	-	-	-	-	-	-	-
NCA12.RES.0255	NCA12	1	289865	6279635	Residential	41 Hughes Avenue Hobartville	57	52	P	51	45	56	50	9.3	9.4	-	-	-	-	-	-	-	-
NCA12.RES.0256	NCA12	1	289852	6279633	Residential	43 Hughes Avenue Hobartville	57	52	P	52	46	57	51	9.9	9.9	-	-	-	-	-	-	-	-
NCA12.RES.0257	NCA12	1	289835	6279624	Residential	45 Hughes Avenue Hobartville	57	52	P	54	48	59	53	10.8	10.6	Y	Y	-	-	-	-	Y	-
NCA12.RES.0258	NCA12	1	289822	6279621	Residential	47 Hughes Avenue Hobartville	56	51	P	57	51	60	54	11.8	11.6	Y	Y	-	-	-	-	Y	-
NCA12.RES.0259	NCA12	1	289799	6279623	Residential	49 Hughes Avenue Hobartville	56	51	P	64	58	65	58	11.2	10.7	Y	Y	Y	Y	-	-	Y	-
NCA12.RES.0260	NCA12	1	290275	6279531	Residential	2 Hughes Avenue Hobartville	57	52	P	47	41	50	44	3.6	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0261	NCA12	1	290253	6279523	Residential	4 Hughes Avenue Hobartville	56	51	P	47	41	50	44	3.5	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0262	NCA12	1	290240	6279518	Residential	6 Hughes Avenue Hobartville	56	51	P	47	41	50	44	3.6	3.5	-	-	-	-	-	-	-	-
NCA12.RES.0263	NCA12	1	290227	6279509	Residential	8 Hughes Avenue Hobartville	56	51	P	47	41	50	44	3.4	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0264	NCA12	1	290214	6279507	Residential	10 Hughes Avenue Hobartville	56	51	P	47	41	50	44	3.7	3.7	-	-	-	-	-	-	-	-
NCA12.RES.0265	NCA12	1	290197	6279499	Residential	12 Hughes Avenue Hobartville	56	51	P	47	41	50	44	3.7	3.7	-	-	-	-	-	-	-	-
NCA12.RES.0266	NCA12	1	290186	6279495	Residential	14 Hughes Avenue Hobartville	56	51	P	47	41	50	44	3.7	3.7	-	-	-	-	-	-	-	-
NCA12.RES.0267	NCA12	1	290170	6279490	Residential	16 Hughes Avenue Hobartville	55	50	P	48	42	51	45	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0268	NCA12	1	290152	6279482	Residential	18 Hughes Avenue Hobartville	55	50	P	48	42	51	45	4.5	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0269	NCA12	1	290140	6279477	Residential	20 Hughes Avenue Hobartville	55	50	P	48	42	51	45	4.5	4.4	-	-	-	-	-	-	-	-
NCA12.RES.0270	NCA12	1	290127	6279473	Residential	22 Hughes Avenue Hobartville	55	50	P	48	42	51	45	4.3	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0271	NCA12	1	290107	6279468	Residential	24 Hughes Avenue Hobartville	55	50	P	48	42	51	45	4.5	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0272	NCA12	1	290093	6279452	Residential	26 Hughes Avenue Hobartville	55	50	P	47	41	52	46	7.2	7.1	-	-	-	-	-	-	-	-
NCA12.RES.0273	NCA12	1	290071	6279460	Residential	28 Hughes Avenue Hobartville	55	50	P	48	42	54	48	7.7	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0274	NCA12	1	290034	6279457	Residential	30 Hughes Avenue Hobartville	55	50	P	47	41	52	46	7	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0275	NCA12	1	290022	6279462	Residential	32 Hughes Avenue Hobartville	55	50	P	47	41	53	47	8.7	8.6	-	-	-	-	-	-	-	-
NCA12.RES.0276	NCA12	1	290006	6279474	Residential	34 Hughes Avenue Hobartville	55	50	P	47	41	53	47	9.3	9	-	-	-	-	-	-	-	-
NCA12.RES.0277	NCA12	1	289985	6279477	Residential	36 Hughes Avenue Hobartville	55	50	P	48	42	54	48	9.2	8.9	-	-	-	-	-	-	-	-
NCA12.RES.0278	NCA12	1	289941	6279516	Residential	38 Hughes Avenue Hobartville	55	50	P	49	43	55	49	9	8.9	-	-	-	-	-	-	-	-
NCA12.RES.0279	NCA12	1	289931	6279522	Residential	40 Hughes Avenue Hobartville	55	50	P	50	44	55	49	10	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0280	NCA12	1	289933	6279544	Residential	42 Hughes Avenue Hobartville	55	50	P	49	43	55	49	8.6	8.4	-	-	-	-	-	-	-	-
NCA12.RES.0281	NCA12	1	289921	6279560	Residential	44 Hughes Avenue Hobartville	55	50	P	49	43	54	49	7.8	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0282	NCA12	1	289911	6279565	Residential	46 Hughes Avenue Hobartville	55	50	P	49	43	55	49	8.9	8.7	-	-	-	-	-	-	-	-
NCA12.RES.0283	NCA12	1	289895	6279578	Residential	48 Hughes Avenue Hobartville	55	50	P	49	43	55	49	10.1	9.9	-	-	-	-	-	-	-	-
NCA12.RES.0283	NCA12	2	289895	6279578	Residential	48 Hughes Avenue Hobartville	55	50	P	53	47	60	54	10.4	10.2	Y	Y	Y	-	-	-	Y	-
NCA12.RES.0284	NCA12	1	289885	6279609	Residential	50 Hughes Avenue Hobartville	56	51	P	53	47	56	50	5.3	5.3	-	-	-	-	-	-	-	-
NCA12.RES.0285	NCA12	1	289867	6279603	Residential	52 Hughes Avenue Hobartville	56	51	P	54	48	57	51	6.2	6.2	Y	-	-	-	-	-	Y	-
NCA12.RES.0286	NCA12	1	289854	6279601	Residential	54 Hughes Avenue Hobartville	56	51	P	55	49	58	52	6.9	6.7	Y	Y	-	-	-	-	Y	-
NCA12.RES.0287	NCA12	1	289836	6279579	Residential	56 Hughes Avenue Hobartville	55	50	P	64	58	64	58	10.6	10.2	-	-	Y	Y	-	-	Y	-
NCA12.RES.0288	NCA12	1	290754	6279387	Residential	29 Laurence Street Hobartville	56	51	P	44	39	47	41	3.3	3.2	-	-	-	-	-	-	-	-
NCA12.RES.0289	NCA12	1	290748	6279371	Residential	31 Laurence Street Hobartville	56	50	P	44	38	46	40	2.7	2.5	-	-	-	-	-	-	-	-
NCA12.RES.0291	NCA12	1	290559	6279215	Residential	39 Laurence Street Hobartville	55	50	P	45	39	48	42	4.5	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0292	NCA12	1	290539	6279191	Residential	41 Laurence Street Hobartville	55	50	P	44	39	49	43	6.9	6.6	-	-	-	-	-	-	-	-
NCA12.RES.0293	NCA12	1	290509	6279172	Residential	43 Laurence Street Hobartville	55	50	P	44	38	49	43	6.5	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0294	NCA12	1	290497	6279161	Residential	45 Laurence Street Hobartville	55	50	P	45	39	49	43	6	5.9	-	-	-	-	-	-	-	-
NCA12.RES.0295	NCA12	1	290490	6279138	Residential	47 Laurence Street Hobartville	55	50	P	44	38	49	43	7.2	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0296	NCA12	1	290469	6279133	Residential	49 Laurence Street Hobartville	55	50	P	45	39	50	45	8.2	8	-	-	-	-	-	-	-	-
NCA12.RES.0298	NCA12	1	290540	6279131	Residential	44 Laurence Street Hobartville	55	50	P	45	39	50	44	6.2	6	-	-	-	-	-	-	-	-
NCA12.RES.0299	NCA12	1	290995	6279117	Residential	64 Londonderry Road Hobartville	60	55	P	59	55	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0300	NCA12	1	290982	6279105	Residential	66 Londonderry Road Hobartville	60	55	P	59	55	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0301	NCA12	1	290970	6279093	Residential	68 Londonderry Road Hobartville	60	55	P	59	54	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0302	NCA12	1	290960	6279083	Residential	70 Londonderry Road Hobartville	60	55	P	59	55	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0303	NCA12	1	290952	6279076	Residential	72 Londonderry Road Hobartville	60	55	P	59	55	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0304	NCA12	1	290937	6279061	Residential	74 Londonderry Road Hobartville	60	55	P	59	55	58	54	0.1	0	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0305	NCA12	1	290926	6279053	Residential	76 Londonderry Road Hobartville	60	55	P	59	54	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0306	NCA12	1	290912	6279039	Residential	78 Londonderry Road Hobartville	60	55	P	59	54	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0307	NCA12	1	290904	6279031	Residential	80 Londonderry Road Hobartville	60	55	P	59	55	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0308	NCA12	1	290873	6279031	Residential	82 Londonderry Road Hobartville	59	55	P	47	43	48	44	1.5	1	-	-	-	-	-	-	-	-
NCA12.RES.0309	NCA12	1	290892	6279021	Residential	82 Londonderry Road Hobartville	60	55	P	59	54	58	54	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0310	NCA12	1	290882	6279008	Residential	84 Londonderry Road Hobartville	60	55	P	60	55	59	55	0.1	0	-	-	-	-	-	-	-	-
NCA12.RES.0311	NCA12	1	290875	6279001	Residential	86 Londonderry Road Hobartville	60	55	P	60	55	59	55	0.2	0	-	-	-	-	-	-	-	-
NCA12.RES.0312	NCA12	1	290857	6278987	Residential	88 Londonderry Road Hobartville	60	55	P	59	55	59	55	0.2	0	-	-	-	-	-	-	-	-
NCA12.RES.0313	NCA12	1	290848	6278979	Residential	90 Londonderry Road Hobartville	60	55	P	59	55	59	55	0.2	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0314	NCA12	1	290835	6278967	Residential	92 Londonderry Road Hobartville	60	55	P	59	55	59	55	0.2	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0315	NCA12	1	290826	6278959	Residential	94 Londonderry Road Hobartville	60	55	P	59	55	59	55	0.2	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0316	NCA12	1	290819	6278952	Residential	96 Londonderry Road Hobartville	60	55	P	60	55	59	55	0.3	0.1	-	-	-	-	-	-	-	-
NCA12.RES.0317	NCA12	1	290808	6278941	Residential	98 Londonderry Road Hobartville	60	55	P	60	55	59	55	0.3	0.2	-	-	-	-	-	-	-	-
NCA12.RES.0318	NCA12	1	290795	6278929	Residential	100 Londonderry Road Hobartville	60	55	P	60	55	59	55	0.4	0.2	-	-	-	-	-	-	-	-
NCA12.RES.0319	NCA12	1	290719	6278859	Residential	102 Londonderry Road Hobartville	60	55	P	59	55	59	55	2	1.8	-	-	-	-	-	-	-	-
NCA12.RES.0320	NCA12	1	290711	6278853	Residential	104 Londonderry Road Hobartville	60	55	P	59	55	59	55	2.7	2.4	-	-	-	-	-	-	-	-
NCA12.RES.0321	NCA12	1	290703	6278844	Residential	106 Londonderry Road Hobartville	60	55	P	59	54	59	55	4	3.7	-	-	-	-	-	-	-	-
NCA12.RES.0322	NCA12	1	290692	6278833	Residential	108 Londonderry Road Hobartville	60	55	P	59	54	59	55	6	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0323	NCA12	1	290676	6278820	Residential	110 Londonderry Road Hobartville	60	55	P	59	55	59	55	8.2	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0324	NCA12	1	290667	6278811	Residential	112 Londonderry Road Hobartville	60	55	P	59	55	59	55	9.4	8.9	-	-	-	-	-	-	-	-
NCA12.RES.0325	NCA12	1	290652	6278796	Residential	114 Londonderry Road Hobartville	60	55	P	59	55	60	55	11	10.5	-	-	-	-	-	-	-	-
NCA12.RES.0326	NCA12	1	290645	6278791	Residential	116 Londonderry Road Hobartville	60	55	P	60	55	59	55	11.3	10.7	-	-	-	-	-	-	-	-
NCA12.RES.0327	NCA12	1	290631	6278778	Residential	118 Londonderry Road Hobartville	60	55	P	60	55	59	54	11.8	11.2	-	-	-	-	-	-	-	-
NCA12.RES.0327	NCA12	2	290616	6278785	Residential	118 Londonderry Road Hobartville	58	53	P	56	52	59	54	12.1	12.1	Y	Y	-	-	-	-	Y	-
NCA12.RES.0328	NCA12	1	290618	6278765	Residential	120 Londonderry Road Hobartville	59	54	P	60	55	59	54	12	11.4	-	-	-	-	-	-	-	-
NCA12.RES.0329	NCA12	1	290612	6278759	Residential	122 Londonderry Road Hobartville	59	54	P	60	55	60	55	12.3	11.6	-	-	-	-	-	-	-	-
NCA12.RES.0330	NCA12	1	290594	6278743	Residential	124 Londonderry Road Hobartville	58	53	P	61	56	60	55	11.9	11.2	-	-	-	-	-	-	-	-
NCA12.RES.0331	NCA12	1	290576	6278742	Residential	126 Londonderry Road Hobartville	57	52	P	62	56	62	57	10.1	8.8	Y	-	Y	Y	-	-	Y	Y
NCA12.RES.0331	NCA12	2	290576	6278742	Residential	126 Londonderry Road Hobartville	57	52	P	63	58	64	59	10.5	9.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0332	NCA12	1	290913	6279169	Residential	35 Luttrell Street Hobartville	58	53	P	46	41	46	42	1.5	1	-	-	-	-	-	-	-	-
NCA12.RES.0333	NCA12	1	290900	6279157	Residential	37 Luttrell Street Hobartville	58	53	P	46	41	47	42	1.8	1.2	-	-	-	-	-	-	-	-
NCA12.RES.0334	NCA12	1	290886	6279146	Residential	39 Luttrell Street Hobartville	57	53	P	45	41	46	42	1.7	1.3	-	-	-	-	-	-	-	-
NCA12.RES.0335	NCA12	1	290866	6279134	Residential	41 Luttrell Street Hobartville	57	52	P	45	40	47	42	3.2	2.5	-	-	-	-	-	-	-	-
NCA12.RES.0336	NCA12	1	290864	6279147	Residential	41 Luttrell Street Hobartville	56	51	P	44	39	47	42	3.5	2.9	-	-	-	-	-	-	-	-
NCA12.RES.0337	NCA12	1	290839	6279116	Residential	43 Luttrell Street Hobartville	57	51	P	45	39	47	42	3.5	3.1	-	-	-	-	-	-	-	-
NCA12.RES.0338	NCA12	1	290822	6279108	Residential	45 Luttrell Street Hobartville	57	51	P	45	39	47	42	3.7	3.2	-	-	-	-	-	-	-	-
NCA12.RES.0339	NCA12	1	290807	6279091	Residential	47 Luttrell Street Hobartville	56	51	P	44	39	47	42	4	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0340	NCA12	1	290798	6279079	Residential	49 Luttrell Street Hobartville	58	53	P	46	41	48	43	3.7	3.1	-	-	-	-	-	-	-	-
NCA12.RES.0341	NCA12	1	290775	6279060	Residential	51 Luttrell Street Hobartville	57	51	P	45	39	47	41	3.7	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0342	NCA12	1	290757	6279052	Residential	53 Luttrell Street Hobartville	57	51	P	45	39	48	42	4	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0343	NCA12	1	290761	6279027	Residential	55 Luttrell Street Hobartville	57	53	P	45	41	47	42	2.4	1.8	-	-	-	-	-	-	-	-
NCA12.RES.0344	NCA12	1	290735	6279016	Residential	57 Luttrell Street Hobartville	56	51	P	44	39	48	43	5.8	5.1	-	-	-	-	-	-	-	-
NCA12.RES.0344	NCA12	2	290735	6279016	Residential	57 Luttrell Street Hobartville	58	53	P	47	42	50	45	4.9	4.1	-	-	-	-	-	-	-	-
NCA12.RES.0345	NCA12	1	290696	6278991	Residential	61 Luttrell Street Hobartville	57	52	P	45	40	49	43	5.2	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0346	NCA12	1	290682	6278976	Residential	63 Luttrell Street Hobartville	57	51	P	45	39	48	42	4.8	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0347	NCA12	1	290671	6278957	Residential	65 Luttrell Street Hobartville	57	51	P	45	39	49	44	7.7	7.1	-	-	-	-	-	-	-	-
NCA12.RES.0347	NCA12	2	290671	6278957	Residential	65 Luttrell Street Hobartville	57	52	P	47	42	52	46	8.2	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0348	NCA12	1	290654	6278931	Residential	67 Luttrell Street Hobartville	57	52	P	46	41	49	44	6	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0349	NCA12	1	290642	6278925	Residential	69 Luttrell Street Hobartville	57	52	P	46	41	50	44	6.5	5.5	-	-	-	-	-	-	-	-
NCA12.RES.0350	NCA12	1	290616	6278919	Residential	71 Luttrell Street Hobartville	56	51	P	46	40	50	45	8.9	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0351	NCA12	1	290604	6278917	Residential	73 Luttrell Street Hobartville	56	51	P	46	41	51	45	8.9	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0352	NCA12	1	290589	6278918	Residential	75 Luttrell Street Hobartville	55	50	P	46	41	51	46	9.3	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0353	NCA12	1	290573	6278921	Residential	77 Luttrell Street Hobartville	55	50	P	46	41	51	46	9.8	8.9	-	-	-	-	-	-	-	-
NCA12.RES.0354	NCA12	1	290554	6278926	Residential	79 Luttrell Street Hobartville	55	50	P	46	40	52	46	10.8	10	-	-	-	-	-	-	-	-
NCA12.RES.0355	NCA12	1	290536	6278934	Residential	81 Luttrell Street Hobartville	55	50	P	46	41	52	46	10.4	9.7	-	-	-	-	-	-	-	-
NCA12.RES.0356	NCA12	1	290524	6278946	Residential	83 Luttrell Street Hobartville	55	50	P	46	41	52	46	10.1	9.6	-	-	-	-	-	-	-	-
NCA12.RES.0357	NCA12	1	290513	6278958	Residential	85 Luttrell Street Hobartville	55	50	P	46	40	52	46	10	9.6	-	-	-	-	-	-	-	-
NCA12.RES.0358	NCA12	1	290503	6278970	Residential	87 Luttrell Street Hobartville	55	50	P	46	40	52	46	10.1	9.8	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0359	NCA12	1	290498	6278983	Residential	89 Luttrell Street Hobartville	55	50	P	45	39	52	46	10.5	10.2	-	-	-	-	-	-	-	-
NCA12.RES.0359	NCA12	2	290498	6278983	Residential	89 Luttrell Street Hobartville	55	50	P	48	42	55	49	9.9	9.5	-	-	-	-	-	-	-	-
NCA12.RES.0360	NCA12	1	290489	6278999	Residential	91 Luttrell Street Hobartville	55	50	P	46	40	52	46	8.9	8.5	-	-	-	-	-	-	-	-
NCA12.RES.0361	NCA12	1	290484	6279018	Residential	93 Luttrell Street Hobartville	55	50	P	46	40	51	45	8.4	8.1	-	-	-	-	-	-	-	-
NCA12.RES.0362	NCA12	1	290486	6279035	Residential	95 Luttrell Street Hobartville	55	50	P	46	40	51	45	8.2	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0363	NCA12	1	290488	6279051	Residential	97 Luttrell Street Hobartville	55	50	P	46	40	51	45	8.1	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0364	NCA12	1	290491	6279068	Residential	99 Luttrell Street Hobartville	55	50	P	46	40	51	45	7.7	7.4	-	-	-	-	-	-	-	-
NCA12.RES.0365	NCA12	1	290495	6279079	Residential	101 Luttrell Street Hobartville	55	50	P	45	40	51	45	7.3	7	-	-	-	-	-	-	-	-
NCA12.RES.0366	NCA12	1	290953	6279159	Residential	44 Luttrell Street Hobartville	56	51	P	44	39	47	41	3.3	3	-	-	-	-	-	-	-	-
NCA12.RES.0366	NCA12	2	290969	6279135	Residential	44 Luttrell Street Hobartville	60	55	P	53	48	52	48	0.4	0.2	-	-	-	-	-	-	-	-
NCA12.RES.0367	NCA12	1	290942	6279145	Residential	46 Luttrell Street Hobartville	57	52	P	45	40	47	42	3	2.6	-	-	-	-	-	-	-	-
NCA12.RES.0368	NCA12	1	290936	6279138	Residential	48 Luttrell Street Hobartville	57	52	P	45	40	47	42	2.8	2.3	-	-	-	-	-	-	-	-
NCA12.RES.0369	NCA12	1	290933	6279106	Residential	50 Luttrell Street Hobartville	59	55	P	47	43	48	43	1	0.6	-	-	-	-	-	-	-	-
NCA12.RES.0370	NCA12	1	290929	6279099	Residential	52 Luttrell Street Hobartville	60	55	P	48	43	48	43	1	0.6	-	-	-	-	-	-	-	-
NCA12.RES.0371	NCA12	1	290911	6279082	Residential	54 Luttrell Street Hobartville	59	55	P	47	43	47	43	1	0.6	-	-	-	-	-	-	-	-
NCA12.RES.0372	NCA12	1	290888	6279092	Residential	56 Luttrell Street Hobartville	57	52	P	45	40	47	42	3.2	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0373	NCA12	1	290875	6279084	Residential	58 Luttrell Street Hobartville	58	53	P	46	41	48	42	3	2.5	-	-	-	-	-	-	-	-
NCA12.RES.0374	NCA12	1	290871	6279058	Residential	60 Luttrell Street Hobartville	59	55	P	47	43	48	43	1.3	0.8	-	-	-	-	-	-	-	-
NCA12.RES.0375	NCA12	1	290852	6279064	Residential	62 Luttrell Street Hobartville	57	52	P	45	40	48	42	3.3	2.6	-	-	-	-	-	-	-	-
NCA12.RES.0376	NCA12	1	290836	6279054	Residential	64 Luttrell Street Hobartville	57	51	P	45	39	47	42	3.9	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0377	NCA12	1	290826	6279043	Residential	66 Luttrell Street Hobartville	57	51	P	45	39	47	42	4.2	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0377	NCA12	2	290843	6279022	Residential	66 Luttrell Street Hobartville	60	55	P	52	48	52	48	0.8	0.5	-	-	-	-	-	-	-	-
NCA12.RES.0378	NCA12	1	290818	6279032	Residential	68 Luttrell Street Hobartville	57	52	P	45	40	48	42	3.5	3	-	-	-	-	-	-	-	-
NCA12.RES.0379	NCA12	1	290808	6279022	Residential	70 Luttrell Street Hobartville	57	52	P	45	40	48	42	3.5	2.9	-	-	-	-	-	-	-	-
NCA12.RES.0380	NCA12	1	290809	6279000	Residential	72 Luttrell Street Hobartville	59	55	P	47	43	48	43	1.4	0.9	-	-	-	-	-	-	-	-
NCA12.RES.0381	NCA12	1	290783	6279002	Residential	74 Luttrell Street Hobartville	57	52	P	45	40	48	42	3.9	3.2	-	-	-	-	-	-	-	-
NCA12.RES.0382	NCA12	1	290778	6278993	Residential	76 Luttrell Street Hobartville	58	53	P	46	41	48	43	3.9	3.2	-	-	-	-	-	-	-	-
NCA12.RES.0383	NCA12	1	290764	6278984	Residential	78 Luttrell Street Hobartville	57	51	P	45	39	48	42	4.8	4.4	-	-	-	-	-	-	-	-
NCA12.RES.0384	NCA12	1	290748	6278968	Residential	80 Luttrell Street Hobartville	57	52	P	45	40	48	43	4.9	4.4	-	-	-	-	-	-	-	-
NCA12.RES.0385	NCA12	1	290734	6278945	Residential	82 Luttrell Street Hobartville	59	54	P	49	44	50	45	3.2	2.5	-	-	-	-	-	-	-	-
NCA12.RES.0386	NCA12	1	290708	6278921	Residential	84 Luttrell Street Hobartville	58	53	P	50	45	50	46	1.8	1.3	-	-	-	-	-	-	-	-
NCA12.RES.0387	NCA12	1	290681	6278900	Residential	86 Luttrell Street Hobartville	58	53	P	46	41	50	45	6.9	6.1	-	-	-	-	-	-	-	-
NCA12.RES.0388	NCA12	1	290670	6278891	Residential	88 Luttrell Street Hobartville	58	53	P	46	41	50	45	6.5	5.9	-	-	-	-	-	-	-	-
NCA12.RES.0389	NCA12	1	290658	6278883	Residential	90 Luttrell Street Hobartville	57	52	P	46	41	51	45	6.9	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0390	NCA12	1	290649	6278873	Residential	92 Luttrell Street Hobartville	57	52	P	46	41	51	45	7.2	6.6	-	-	-	-	-	-	-	-
NCA12.RES.0391	NCA12	1	290640	6278861	Residential	94 Luttrell Street Hobartville	57	52	P	46	40	51	45	7.7	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0392	NCA12	1	290626	6278850	Residential	96 Luttrell Street Hobartville	57	52	P	47	41	51	46	7.9	7.5	-	-	-	-	-	-	-	-
NCA12.RES.0393	NCA12	1	290618	6278840	Residential	98 Luttrell Street Hobartville	57	52	P	47	42	51	46	7.7	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0394	NCA12	1	290608	6278829	Residential	100 Luttrell Street Hobartville	57	52	P	46	41	51	45	8	7.6	-	-	-	-	-	-	-	-
NCA12.RES.0395	NCA12	1	290601	6278803	Residential	102 Luttrell Street Hobartville	57	52	P	48	44	52	46	9.9	9.2	-	-	-	-	-	-	-	-
NCA12.RES.0396	NCA12	1	290572	6278806	Residential	104 Luttrell Street Hobartville	55	50	P	48	43	53	47	12.1	11.4	-	-	-	-	-	-	-	-
NCA12.RES.0397	NCA12	1	290551	6278815	Residential	106 Luttrell Street Hobartville	55	50	P	48	42	53	47	11.7	11.3	-	-	-	-	-	-	-	-
NCA12.RES.0397	NCA12	2	290551	6278815	Residential	106 Luttrell Street Hobartville	55	50	P	55	50	61	55	8.7	8.3	Y	Y	Y	Y	-	-	Y	-
NCA12.RES.0398	NCA12	1	290542	6278831	Residential	108 Luttrell Street Hobartville	55	50	P	49	43	54	49	11.8	11.1	-	-	-	-	-	-	-	-
NCA12.RES.0399	NCA12	1	290542	6278839	Residential	110 Luttrell Street Hobartville	55	50	P	48	42	54	48	11.5	10.8	-	-	-	-	-	-	-	-
NCA12.RES.0400	NCA12	1	290536	6278857	Residential	112 Luttrell Street Hobartville	55	50	P	47	42	53	48	11.6	11	-	-	-	-	-	-	-	-
NCA12.RES.0401	NCA12	1	290522	6278868	Residential	114 Luttrell Street Hobartville	55	50	P	47	42	53	47	11.6	11	-	-	-	-	-	-	-	-
NCA12.RES.0402	NCA12	1	290510	6278878	Residential	116 Luttrell Street Hobartville	55	50	P	47	42	53	48	11.2	10.6	-	-	-	-	-	-	-	-
NCA12.RES.0403	NCA12	1	290502	6278889	Residential	118 Luttrell Street Hobartville	55	50	P	48	42	54	48	11.6	11	-	-	-	-	-	-	-	-
NCA12.RES.0404	NCA12	1	290494	6278898	Residential	120 Luttrell Street Hobartville	55	50	P	48	42	54	48	11.8	11.3	-	-	-	-	-	-	-	-
NCA12.RES.0405	NCA12	1	290469	6278910	Residential	122 Luttrell Street Hobartville	55	50	P	49	43	55	49	11.9	11.1	-	-	-	-	-	-	-	-
NCA12.RES.0406	NCA12	1	290471	6278925	Residential	124 Luttrell Street Hobartville	55	50	P	47	41	53	48	11.6	11.1	-	-	-	-	-	-	-	-
NCA12.RES.0407	NCA12	1	290463	6278938	Residential	126 Luttrell Street Hobartville	55	50	P	47	41	53	48	11	10.5	-	-	-	-	-	-	-	-
NCA12.RES.0408	NCA12	1	290449	6278948	Residential	128 Luttrell Street Hobartville	55	50	P	46	41	53	47	11.4	10.8	-	-	-	-	-	-	-	-
NCA12.RES.0409	NCA12	1	290438	6278961	Residential	130 Luttrell Street Hobartville	55	50	P	47	41	53	47	11.6	10.8	-	-	-	-	-	-	-	-
NCA12.RES.0410	NCA12	1	290432	6278973	Residential	132 Luttrell Street Hobartville	55	50	P	45	39	51	45	11.7	11	-	-	-	-	-	-	-	-
NCA12.RES.0411	NCA12	1	290430	6278997	Residential	134 Luttrell Street Hobartville	55	50	P	48	42	53	47	9.4	8.9	-	-	-	-	-	-	-	-
NCA12.RES.0412	NCA12	1	290436	6279033	Residential	136 Luttrell Street Hobartville	55	50	P	46	40	52	46	9.9	9.3	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0413	NCA12	1	290435	6279058	Residential	138 Luttrell Street Hobartville	55	50	P	45	39	51	45	7.9	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0414	NCA12	1	290440	6279073	Residential	140 Luttrell Street Hobartville	55	50	P	46	40	51	45	7.9	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0415	NCA12	1	290444	6279089	Residential	142 Luttrell Street Hobartville	55	50	P	45	40	51	45	8.5	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0416	NCA12	1	290657	6278979	Residential	1 Minchin Avenue Hobartville	56	51	P	44	39	49	43	7.3	6.8	-	-	-	-	-	-	-	-
NCA12.RES.0417	NCA12	1	290641	6278998	Residential	3 Minchin Avenue Hobartville	56	51	P	45	39	49	44	6.8	6.2	-	-	-	-	-	-	-	-
NCA12.RES.0418	NCA12	1	290634	6279006	Residential	5 Minchin Avenue Hobartville	55	50	P	44	39	49	43	7	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0419	NCA12	1	290624	6279017	Residential	7 Minchin Avenue Hobartville	55	50	P	44	39	49	43	7.3	6.7	-	-	-	-	-	-	-	-
NCA12.RES.0420	NCA12	1	290609	6279033	Residential	9 Minchin Avenue Hobartville	55	50	P	44	39	49	43	7.5	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0421	NCA12	1	290596	6279047	Residential	11 Minchin Avenue Hobartville	55	50	P	44	39	49	44	7.4	7	-	-	-	-	-	-	-	-
NCA12.RES.0422	NCA12	1	290584	6279061	Residential	13 Minchin Avenue Hobartville	55	50	P	44	39	49	44	7.6	7	-	-	-	-	-	-	-	-
NCA12.RES.0423	NCA12	1	290572	6279074	Residential	15 Minchin Avenue Hobartville	55	50	P	44	38	49	44	8.7	8.2	-	-	-	-	-	-	-	-
NCA12.RES.0424	NCA12	1	290563	6279083	Residential	17 Minchin Avenue Hobartville	55	50	P	43	38	49	44	9.3	8.9	-	-	-	-	-	-	-	-
NCA12.RES.0424	NCA12	2	290563	6279083	Residential	17 Minchin Avenue Hobartville	55	50	P	45	40	51	45	8.6	8.1	-	-	-	-	-	-	-	-
NCA12.RES.0425	NCA12	1	290549	6279099	Residential	19 Minchin Avenue Hobartville	55	50	P	44	39	50	44	8	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0426	NCA12	1	290531	6279111	Residential	21 Minchin Avenue Hobartville	55	50	P	45	39	50	44	8	7.6	-	-	-	-	-	-	-	-
NCA12.RES.0427	NCA12	1	290619	6278978	Residential	2 Minchin Avenue Hobartville	55	50	P	45	40	49	43	5.3	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0428	NCA12	1	290611	6278977	Residential	4 Minchin Avenue Hobartville	55	50	P	45	40	49	43	5.4	5	-	-	-	-	-	-	-	-
NCA12.RES.0429	NCA12	1	290598	6278953	Residential	6 Minchin Avenue Hobartville	55	50	P	44	39	49	43	7.9	7	-	-	-	-	-	-	-	-
NCA12.RES.0430	NCA12	1	290574	6278957	Residential	8 Minchin Avenue Hobartville	55	49	P	43	37	49	43	10	9.5	-	-	-	-	-	-	-	-
NCA12.RES.0431	NCA12	1	290558	6278969	Residential	10 Minchin Avenue Hobartville	55	50	P	44	38	49	43	8.5	8	-	-	-	-	-	-	-	-
NCA12.RES.0432	NCA12	1	290541	6278982	Residential	12 Minchin Avenue Hobartville	55	50	P	45	39	49	44	7.8	7.6	-	-	-	-	-	-	-	-
NCA12.RES.0433	NCA12	1	290537	6278996	Residential	14 Minchin Avenue Hobartville	55	50	P	44	39	49	43	7.8	7.5	-	-	-	-	-	-	-	-
NCA12.RES.0434	NCA12	1	290528	6279017	Residential	16 Minchin Avenue Hobartville	55	50	P	45	39	49	44	7.4	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0435	NCA12	1	290524	6279031	Residential	18 Minchin Avenue Hobartville	55	50	P	44	39	49	44	7.6	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0436	NCA12	1	290522	6279048	Residential	20 Minchin Avenue Hobartville	55	50	P	45	39	49	43	6.9	6.7	-	-	-	-	-	-	-	-
NCA12.RES.0437	NCA12	1	290523	6279067	Residential	22 Minchin Avenue Hobartville	55	50	P	44	38	49	43	7.5	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0438	NCA12	1	290502	6279091	Residential	24 Minchin Avenue Hobartville	55	50	P	45	40	50	45	7.1	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0439	NCA12	1	290336	6279155	Residential	5 Potts Street Hobartville	55	50	P	47	41	53	48	10.5	10.2	-	-	-	-	-	-	-	-
NCA12.RES.0440	NCA12	1	290342	6279144	Residential	7 Potts Street Hobartville	55	50	P	46	41	53	47	10.3	9.8	-	-	-	-	-	-	-	-
NCA12.RES.0441	NCA12	1	290353	6279129	Residential	9 Potts Street Hobartville	55	50	P	45	40	53	47	11.1	10.7	-	-	-	-	-	-	-	-
NCA12.RES.0441	NCA12	2	290353	6279129	Residential	9 Potts Street Hobartville	55	50	P	48	42	56	50	11.7	11.4	Y	-	-	-	-	-	Y	-
NCA12.RES.0442	NCA12	1	290368	6279132	Residential	9 Potts Street Hobartville	55	49	P	43	37	49	44	10.1	9.1	-	-	-	-	-	-	-	-
NCA12.RES.0443	NCA12	1	290367	6279115	Residential	11 Potts Street Hobartville	55	50	P	46	40	53	47	10.4	9.9	-	-	-	-	-	-	-	-
NCA12.RES.0444	NCA12	1	290372	6279109	Residential	13 Potts Street Hobartville	55	50	P	46	40	53	47	10.4	9.9	-	-	-	-	-	-	-	-
NCA12.RES.0445	NCA12	1	290381	6279100	Residential	15 Potts Street Hobartville	55	50	P	46	40	53	47	9.8	9.5	-	-	-	-	-	-	-	-
NCA12.RES.0446	NCA12	1	290391	6279086	Residential	17 Potts Street Hobartville	55	50	P	46	40	52	47	9.9	9.6	-	-	-	-	-	-	-	-
NCA12.RES.0447	NCA12	1	290401	6279075	Residential	19 Potts Street Hobartville	55	50	P	46	40	52	46	9.8	9.4	-	-	-	-	-	-	-	-
NCA12.RES.0448	NCA12	1	290413	6279062	Residential	21 Potts Street Hobartville	55	50	P	46	40	52	46	9.6	9.3	-	-	-	-	-	-	-	-
NCA12.RES.0449	NCA12	1	290300	6279124	Residential	2 Potts Street Hobartville	55	50	P	49	43	55	49	11.2	10.6	-	-	-	-	-	-	-	-
NCA12.RES.0450	NCA12	1	290306	6279107	Residential	4 Potts Street Hobartville	55	50	P	48	42	54	48	11	10.5	-	-	-	-	-	-	-	-
NCA12.RES.0451	NCA12	1	290325	6279097	Residential	6 Potts Street Hobartville	55	50	P	47	41	53	48	11.2	10.6	-	-	-	-	-	-	-	-
NCA12.RES.0452	NCA12	1	290331	6279091	Residential	8 Potts Street Hobartville	55	50	P	48	42	54	48	11.3	10.7	-	-	-	-	-	-	-	-
NCA12.RES.0453	NCA12	1	290339	6279078	Residential	10 Potts Street Hobartville	55	50	P	47	42	54	48	11	10.6	-	-	-	-	-	-	-	-
NCA12.RES.0454	NCA12	1	290351	6279067	Residential	12 Potts Street Hobartville	55	50	P	47	41	53	47	10.5	10	-	-	-	-	-	-	-	-
NCA12.RES.0455	NCA12	1	290361	6279050	Residential	14 Potts Street Hobartville	55	50	P	46	40	52	46	10.3	9.9	-	-	-	-	-	-	-	-
NCA12.RES.0456	NCA12	1	290367	6279039	Residential	16 Potts Street Hobartville	55	50	P	46	40	52	46	10.8	10.3	-	-	-	-	-	-	-	-
NCA12.RES.0457	NCA12	1	290377	6279033	Residential	18 Potts Street Hobartville	55	50	P	46	40	53	47	10.8	10.3	-	-	-	-	-	-	-	-
NCA12.RES.0458	NCA12	1	290391	6279022	Residential	20 Potts Street Hobartville	55	50	P	46	41	53	47	10.6	10.1	-	-	-	-	-	-	-	-
NCA12.RES.0459	NCA12	1	290655	6279442	Residential	43 Powell Street Hobartville	56	50	P	44	38	48	42	5.9	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0459	NCA12	2	290655	6279442	Residential	43 Powell Street Hobartville	57	51	P	45	39	49	43	5.2	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0460	NCA12	1	290668	6279425	Residential	45 Powell Street Hobartville	56	50	P	44	38	48	42	5.2	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0461	NCA12	1	290673	6279420	Residential	47 Powell Street Hobartville	56	50	P	44	38	48	42	5	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0462	NCA12	1	290688	6279403	Residential	49 Powell Street Hobartville	56	50	P	44	38	48	42	5.4	5.1	-	-	-	-	-	-	-	-
NCA12.RES.0463	NCA12	1	290695	6279393	Residential	51 Powell Street Hobartville	56	51	P	44	39	48	42	5	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0464	NCA12	1	290708	6279380	Residential	53 Powell Street Hobartville	56	51	P	44	39	48	42	4.9	4.6	-	-	-	-	-	-	-	-
NCA12.RES.0465	NCA12	1	290713	6279369	Residential	55 Powell Street Hobartville	56	51	P	44	39	48	42	5	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0466	NCA12	1	290718	6279360	Residential	57 Powell Street Hobartville	57	51	P	45	39	48	42	4.8	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0467	NCA12	1	290526	6279209	Residential	1 Rutherglen Avenue Hobartville	55	50	P	44	39	49	43	6.6	6.4	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0468	NCA12	1	290515	6279221	Residential	3 Rutherglen Avenue Hobartville	55	50	P	44	39	49	43	6.7	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0469	NCA12	1	290502	6279237	Residential	5 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	6.9	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0470	NCA12	1	290494	6279245	Residential	7 Rutherglen Avenue Hobartville	55	50	P	44	39	49	43	6.8	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0471	NCA12	1	290487	6279253	Residential	9 Rutherglen Avenue Hobartville	55	50	P	44	39	49	43	6.7	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0472	NCA12	1	290470	6279272	Residential	11 Rutherglen Avenue Hobartville	55	50	P	45	39	49	43	6.5	6.2	-	-	-	-	-	-	-	-
NCA12.RES.0473	NCA12	1	290461	6279284	Residential	13 Rutherglen Avenue Hobartville	55	50	P	44	39	49	43	6.7	6.3	-	-	-	-	-	-	-	-
NCA12.RES.0474	NCA12	1	290451	6279291	Residential	15 Rutherglen Avenue Hobartville	55	50	P	44	39	49	43	6.7	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0475	NCA12	1	290492	6279176	Residential	2 Rutherglen Avenue Hobartville	55	50	P	44	39	50	44	7.5	7.2	-	-	-	-	-	-	-	-
NCA12.RES.0476	NCA12	1	290472	6279187	Residential	4 Rutherglen Avenue Hobartville	55	50	P	45	39	50	44	7.4	7.1	-	-	-	-	-	-	-	-
NCA12.RES.0477	NCA12	1	290475	6279200	Residential	6 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	7.6	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0478	NCA12	1	290456	6279204	Residential	8A Rutherglen Avenue Hobartville	55	50	P	45	39	50	44	7.3	7	-	-	-	-	-	-	-	-
NCA12.RES.0479	NCA12	1	290453	6279223	Residential	10 Rutherglen Avenue Hobartville	55	50	P	44	38	50	44	7.9	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0480	NCA12	1	290440	6279239	Residential	12 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	7.5	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0481	NCA12	1	290430	6279251	Residential	14 Rutherglen Avenue Hobartville	55	49	P	43	37	48	43	7.8	7.5	-	-	-	-	-	-	-	-
NCA12.RES.0482	NCA12	1	290410	6279261	Residential	16 Rutherglen Avenue Hobartville	55	49	P	43	37	48	42	7.7	7.6	-	-	-	-	-	-	-	-
NCA12.RES.0483	NCA12	1	290385	6279267	Residential	18 Rutherglen Avenue Hobartville	55	50	P	44	39	49	43	6.7	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0484	NCA12	1	290383	6279278	Residential	20 Rutherglen Avenue Hobartville	55	50	P	44	39	49	44	7.2	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0485	NCA12	1	290370	6279289	Residential	22 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	6.8	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0486	NCA12	1	290361	6279305	Residential	24 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	6.7	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0487	NCA12	1	290342	6279325	Residential	26 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	7.1	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0488	NCA12	1	290323	6279334	Residential	28 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	6.8	6.7	-	-	-	-	-	-	-	-
NCA12.RES.0489	NCA12	1	290319	6279345	Residential	30A Rutherglen Avenue Hobartville	55	50	P	43	38	49	43	8.5	8.4	-	-	-	-	-	-	-	-
NCA12.RES.0489	NCA12	2	290319	6279345	Residential	30A Rutherglen Avenue Hobartville	55	50	P	46	41	53	47	8.2	7.9	-	-	-	-	-	-	-	-
NCA12.RES.0490	NCA12	1	290308	6279366	Residential	32 Rutherglen Avenue Hobartville	55	50	P	44	38	49	43	6.2	6.2	-	-	-	-	-	-	-	-
NCA12.RES.0491	NCA12	1	290297	6279380	Residential	34 Rutherglen Avenue Hobartville	55	50	P	46	40	50	44	5.7	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0492	NCA12	1	290302	6279396	Residential	36 Rutherglen Avenue Hobartville	55	50	P	45	39	49	43	5.9	5.9	-	-	-	-	-	-	-	-
NCA12.RES.0493	NCA12	1	290288	6279409	Residential	38 Rutherglen Avenue Hobartville	55	50	P	45	39	49	43	5.4	5.3	-	-	-	-	-	-	-	-
NCA12.RES.0494	NCA12	1	290298	6279440	Residential	40 Rutherglen Avenue Hobartville	56	51	P	47	41	50	44	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0495	NCA12	1	290788	6279094	Residential	1 Sardonyx Avenue Hobartville	57	52	P	45	40	48	43	4	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0496	NCA12	1	290778	6279108	Residential	3 Sardonyx Avenue Hobartville	56	51	P	44	39	47	42	4.2	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0497	NCA12	1	290769	6279117	Residential	5 Sardonyx Avenue Hobartville	57	51	P	45	39	48	42	4.9	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0498	NCA12	1	290761	6279128	Residential	7 Sardonyx Avenue Hobartville	57	52	P	45	40	48	43	4.7	4	-	-	-	-	-	-	-	-
NCA12.RES.0499	NCA12	1	290744	6279145	Residential	9 Sardonyx Avenue Hobartville	57	51	P	45	39	48	42	4.7	4	-	-	-	-	-	-	-	-
NCA12.RES.0500	NCA12	1	290719	6279155	Residential	11 Sardonyx Avenue Hobartville	57	51	P	45	39	48	42	5.1	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0501	NCA12	1	290758	6279065	Residential	2 Sardonyx Avenue Hobartville	56	51	P	44	39	47	41	4	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0502	NCA12	1	290743	6279072	Residential	4 Sardonyx Avenue Hobartville	56	51	P	44	39	48	42	4.7	4	-	-	-	-	-	-	-	-
NCA12.RES.0503	NCA12	1	290725	6279081	Residential	6 Sardonyx Avenue Hobartville	57	51	P	45	39	47	42	4.3	3.7	-	-	-	-	-	-	-	-
NCA12.RES.0504	NCA12	1	290709	6279094	Residential	8 Sardonyx Avenue Hobartville	56	51	P	44	39	48	42	4.8	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0505	NCA12	1	290705	6279110	Residential	10 Sardonyx Avenue Hobartville	56	51	P	44	39	48	42	5.4	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0506	NCA12	1	290703	6279142	Residential	12 Sardonyx Avenue Hobartville	57	51	P	45	39	49	43	5.4	5	-	-	-	-	-	-	-	-
NCA12.RES.0507	NCA12	1	290773	6278906	Residential	1 Smith Avenue Hobartville	60	55	P	60	55	59	55	0.6	0.4	-	-	-	-	-	-	-	-
NCA12.RES.0508	NCA12	1	290759	6278917	Residential	3 Smith Avenue Hobartville	60	55	P	53	49	54	50	1.2	0.8	-	-	-	-	-	-	-	-
NCA12.RES.0509	NCA12	1	290741	6278937	Residential	5 Smith Avenue Hobartville	59	54	P	49	44	51	46	2.9	2.2	-	-	-	-	-	-	-	-
NCA12.RES.0510	NCA12	1	290739	6278871	Residential	2 Smith Avenue Hobartville	60	55	P	61	56	60	56	1	0.8	-	-	-	-	-	-	-	-
NCA12.RES.0511	NCA12	1	290732	6278895	Residential	4 Smith Avenue Hobartville	60	55	P	53	49	53	49	0.6	0.4	-	-	-	-	-	-	-	-
NCA12.RES.0512	NCA12	1	290718	6278911	Residential	6 Smith Avenue Hobartville	59	54	P	51	46	51	47	1	0.6	-	-	-	-	-	-	-	-
NCA12.RES.0513	NCA12	1	289857	6279562	Residential	1 Southee Road Hobartville	55	50	P	62	56	63	57	11	10.6	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0514	NCA12	1	289866	6279552	Residential	3 Southee Road Hobartville	55	50	P	62	56	63	57	11.1	10.7	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0515	NCA12	1	289873	6279544	Residential	5 Southee Road Hobartville	55	50	P	62	56	63	57	11.2	10.6	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0516	NCA12	1	289888	6279526	Residential	7 Southee Road Hobartville	55	50	P	62	56	63	57	11.3	10.8	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0517	NCA12	1	289893	6279520	Residential	9 Southee Road Hobartville	55	50	P	62	56	63	57	11.3	10.8	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0518	NCA12	1	289908	6279503	Residential	11 Southee Road Hobartville	55	50	P	62	56	63	57	11.5	10.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0519	NCA12	1	289919	6279490	Residential	13 Southee Road Hobartville	55	50	P	62	56	63	57	11.6	11.1	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0520	NCA12	1	289924	6279485	Residential	15 Southee Road Hobartville	55	50	P	61	56	63	57	11.6	11.1	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0521	NCA12	1	289942	6279464	Residential	17 Southee Road Hobartville	55	50	P	61	55	62	56	11.7	11.2	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0522	NCA12	1	289953	6279454	Residential	19 Southee Road Hobartville	55	50	P	61	55	62	56	11.9	11.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0523	NCA12	1	289961	6279444	Residential	21 Southee Road Hobartville	55	50	P	61	55	62	56	11.7	11.2	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0524	NCA12	1	289967	6279436	Residential	23 Southee Road Hobartville	55	50	P	61	56	62	56	11.6	11	-	-	Y	Y	-	-	Y	Y

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0525	NCA12	1	289978	6279426	Residential	25 Southee Road Hobartville	55	50	P	61	55	62	56	11.7	11.1	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0526	NCA12	1	289989	6279413	Residential	27 Southee Road Hobartville	55	50	P	61	55	62	56	11.7	11.1	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0527	NCA12	1	290005	6279393	Residential	29 Southee Road Hobartville	55	50	P	61	55	62	56	11.6	11	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0528	NCA12	1	290064	6279324	Residential	31 Southee Road Hobartville	55	50	P	62	56	62	56	9.6	8.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0529	NCA12	1	290074	6279313	Residential	33 Southee Road Hobartville	55	50	P	62	56	62	56	9.7	8.4	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0530	NCA12	1	290085	6279302	Residential	35 Southee Road Hobartville	55	50	P	61	55	62	56	9.9	8.6	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0531	NCA12	1	290088	6279298	Residential	37 Southee Road Hobartville	55	50	P	61	55	62	56	10	8.6	-	-	Y	Y	-	-	Y	Y
NCA12.RES.0531	NCA12	2	290088	6279298	Residential	37 Southee Road Hobartville	55	50	P	62	57	64	58	10.2	8.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0532	NCA12	1	290101	6279284	Residential	39 Southee Road Hobartville	55	50	P	61	55	62	56	10.1	8.7	-	-	Y	Y	-	-	Y	Y
NCA12.RES.0533	NCA12	1	290113	6279270	Residential	41 Southee Road Hobartville	55	50	P	61	55	62	56	9.9	8.6	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0534	NCA12	1	290121	6279258	Residential	43 Southee Road Hobartville	55	50	P	62	56	62	57	9.7	8.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0534	NCA12	2	290121	6279258	Residential	43 Southee Road Hobartville	55	50	P	63	57	64	58	9.9	8.6	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0535	NCA12	1	290135	6279244	Residential	45 Southee Road Hobartville	55	50	P	61	55	62	56	10.1	8.7	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0536	NCA12	1	290145	6279233	Residential	47 Southee Road Hobartville	55	50	P	61	55	62	57	10.2	8.8	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0537	NCA12	1	290151	6279226	Residential	49 Southee Road Hobartville	55	50	P	61	56	62	57	10.1	8.7	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0538	NCA12	1	290166	6279212	Residential	51 Southee Road Hobartville	55	50	P	60	54	62	56	10.4	9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0539	NCA12	1	290174	6279199	Residential	53 Southee Road Hobartville	55	50	P	61	56	62	57	10.2	8.8	-	Y	Y	Y	-	-	Y	Y
NCA12.RES.0540	NCA12	1	290180	6279194	Residential	55 Southee Road Hobartville	55	50	P	61	55	62	56	10.5	9	Y	-	Y	Y	-	-	Y	Y
NCA12.RES.0541	NCA12	1	290193	6279184	Residential	57 Southee Road Hobartville	55	50	P	60	54	62	56	10.5	9.2	Y	-	Y	Y	-	-	Y	Y
NCA12.RES.0542	NCA12	1	290206	6279171	Residential	59 Southee Road Hobartville	55	50	P	59	54	61	56	10.8	9.4	Y	-	Y	Y	-	-	Y	Y
NCA12.RES.0543	NCA12	1	290213	6279158	Residential	61 Southee Road Hobartville	55	50	P	61	55	62	56	10.4	8.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0544	NCA12	1	290227	6279143	Residential	63 Southee Road Hobartville	55	50	P	60	54	62	56	10.6	9.1	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0545	NCA12	1	290237	6279126	Residential	65 Southee Road Hobartville	55	50	P	62	56	63	57	10	8.5	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0546	NCA12	1	290245	6279120	Residential	67 Southee Road Hobartville	55	50	P	61	55	62	56	10.6	9.1	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0547	NCA12	1	290266	6279094	Residential	69 Southee Road Hobartville	55	50	P	61	55	63	57	10.5	9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0548	NCA12	1	290279	6279079	Residential	71 Southee Road Hobartville	55	50	P	61	55	63	57	10.5	8.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0549	NCA12	1	290288	6279069	Residential	73 Southee Road Hobartville	55	50	P	61	55	63	57	10.4	8.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0550	NCA12	1	290304	6279051	Residential	77 Southee Road Hobartville	55	50	P	61	55	63	57	10.5	8.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0551	NCA12	1	290318	6279036	Residential	79 Southee Road Hobartville	55	50	P	61	55	63	57	10.5	8.8	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0552	NCA12	1	290329	6279056	Residential	79 Southee Road Hobartville	55	50	P	49	44	55	49	11.3	10.6	-	-	-	-	-	-	-	-
NCA12.RES.0553	NCA12	1	290330	6279022	Residential	81 Southee Road Hobartville	55	50	P	61	55	62	56	10.3	8.7	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0554	NCA12	1	290337	6279015	Residential	83 Southee Road Hobartville	55	50	P	61	55	62	56	10.2	8.5	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0555	NCA12	1	290345	6279005	Residential	85 Southee Road Hobartville	55	50	P	61	55	62	56	10.1	8.3	Y	-	Y	Y	-	-	Y	Y
NCA12.RES.0556	NCA12	1	290355	6278993	Residential	87 Southee Road Hobartville	55	50	P	61	55	62	56	10	8.4	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0557	NCA12	1	290363	6278984	Residential	89 Southee Road Hobartville	55	50	P	61	55	62	56	10	8.4	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0558	NCA12	1	290390	6278954	Residential	91 Southee Road Hobartville	55	50	P	61	55	62	56	10.1	8.4	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0559	NCA12	1	290398	6278945	Residential	93 Southee Road Hobartville	55	50	P	61	55	62	56	10.2	8.6	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0560	NCA12	1	290411	6278935	Residential	95 Southee Road Hobartville	55	50	P	60	54	61	55	10.6	9.1	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0561	NCA12	1	290419	6278920	Residential	97 Southee Road Hobartville	55	50	P	61	55	62	56	10	8.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0562	NCA12	1	290432	6278905	Residential	99 Southee Road Hobartville	55	50	P	61	55	62	56	9.9	8.3	-	-	Y	Y	-	-	Y	Y
NCA12.RES.0563	NCA12	1	290440	6278899	Residential	101 Southee Road Hobartville	55	50	P	60	54	61	55	10.3	8.7	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0564	NCA12	1	290454	6278888	Residential	103 Southee Road Hobartville	55	50	P	60	54	61	55	10.4	8.8	Y	-	Y	Y	-	-	Y	Y
NCA12.RES.0565	NCA12	1	290463	6278879	Residential	105 Southee Road Hobartville	55	50	P	60	54	61	55	10.4	8.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0566	NCA12	1	290473	6278868	Residential	107 Southee Road Hobartville	55	50	P	59	54	61	55	10.3	8.9	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0567	NCA12	1	290480	6278856	Residential	109 Southee Road Hobartville	55	50	P	60	54	62	56	10	8.5	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0568	NCA12	1	290492	6278838	Residential	111 Southee Road Hobartville	55	50	P	61	55	62	56	9.7	8.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0569	NCA12	1	290499	6278831	Residential	113 Southee Road Hobartville	55	50	P	61	55	62	56	9.6	8.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0570	NCA12	1	290514	6278818	Residential	115 Southee Road Hobartville	55	50	P	60	54	62	56	9.7	8.6	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0571	NCA12	1	290523	6278810	Residential	117 Southee Road Hobartville	55	50	P	60	54	62	56	9	8	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0572	NCA12	1	290534	6278799	Residential	119 Southee Road Hobartville	55	50	P	60	54	62	56	9.5	8.3	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0573	NCA12	1	290542	6278789	Residential	121 Southee Road Hobartville	55	50	P	60	54	62	56	9.6	8.5	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0574	NCA12	1	290553	6278769	Residential	123 Southee Road Hobartville	55	50	P	61	55	62	56	9.4	8.2	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0575	NCA12	1	290563	6278759	Residential	125 Southee Road Hobartville	56	51	P	61	55	62	56	9.8	8.7	Y	Y	Y	Y	-	-	Y	Y
NCA12.RES.0576	NCA12	1	290214	6279580	Residential	3 Tarragen Avenue Hobartville	57	52	P	47	42	51	45	4.4	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0577	NCA12	1	290176	6279618	Residential	5 Tarragen Avenue Hobartville	58	52	P	46	40	50	44	5.5	5.4	-	-	-	-	-	-	-	-
NCA12.RES.0578	NCA12	1	290162	6279636	Residential	7 Tarragen Avenue Hobartville	58	53	P	48	42	50	44	2.8	2.8	-	-	-	-	-	-	-	-
NCA12.RES.0579	NCA12	1	290135	6279619	Residential	9 Tarragen Avenue Hobartville	58	53	P	48	42	51	45	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0580	NCA12	1	290121	6279612	Residential	11 Tarragen Avenue Hobartville	58	53	P	47	41	50	44	4	4	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0581	NCA12	1	290100	6279593	Residential	13 Tarragen Avenue Hobartville	57	52	P	47	41	52	46	5.5	5.6	-	-	-	-	-	-	-	-
NCA12.RES.0582	NCA12	1	290094	6279613	Residential	15 Tarragen Avenue Hobartville	58	53	P	48	42	52	46	4.9	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0583	NCA12	1	290089	6279624	Residential	17 Tarragen Avenue Hobartville	58	53	P	48	42	52	46	4.7	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0584	NCA12	1	290089	6279638	Residential	19 Tarragen Avenue Hobartville	58	53	P	49	42	52	46	4.2	4.2	-	-	-	-	-	-	-	-
NCA12.RES.0585	NCA12	1	290188	6279529	Residential	2 Tarragen Avenue Hobartville	56	51	P	47	41	51	45	5.6	5.7	-	-	-	-	-	-	-	-
NCA12.RES.0586	NCA12	1	290175	6279548	Residential	4 Tarragen Avenue Hobartville	56	51	P	47	41	51	45	5.3	5.3	-	-	-	-	-	-	-	-
NCA12.RES.0587	NCA12	1	290173	6279569	Residential	6 Tarragen Avenue Hobartville	57	52	P	46	40	50	44	5.1	5.1	-	-	-	-	-	-	-	-
NCA12.RES.0588	NCA12	1	290167	6279587	Residential	8 Tarragen Avenue Hobartville	57	52	P	48	42	50	44	3	3	-	-	-	-	-	-	-	-
NCA12.RES.0589	NCA12	1	290145	6279575	Residential	10 Tarragen Avenue Hobartville	57	52	P	48	42	50	44	3.4	3.3	-	-	-	-	-	-	-	-
NCA12.RES.0590	NCA12	1	290139	6279572	Residential	12 Tarragen Avenue Hobartville	57	52	P	48	42	51	44	3.5	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0591	NCA12	1	290118	6279558	Residential	14 Tarragen Avenue Hobartville	56	51	P	47	41	51	45	4.9	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0592	NCA12	1	290111	6279554	Residential	16 Tarragen Avenue Hobartville	56	51	P	48	42	50	44	3.5	3.5	-	-	-	-	-	-	-	-
NCA12.RES.0593	NCA12	1	290090	6279534	Residential	18 Tarragen Avenue Hobartville	55	50	P	47	41	52	46	6.5	6.5	-	-	-	-	-	-	-	-
NCA12.RES.0594	NCA12	1	290086	6279542	Residential	18 Tarragen Avenue Hobartville	56	51	P	48	42	52	46	5.9	5.9	-	-	-	-	-	-	-	-
NCA12.RES.0595	NCA12	1	290357	6279792	Residential	1 Thompson Avenue Hobartville	60	55	P	49	43	51	45	1.3	1.3	-	-	-	-	-	-	-	-
NCA12.RES.0596	NCA12	1	290365	6279798	Residential	1 Thompson Avenue Hobartville	60	55	P	49	43	51	44	1.3	1.3	-	-	-	-	-	-	-	-
NCA12.RES.0597	NCA12	1	290353	6279765	Residential	3 Thompson Avenue Hobartville	60	54	P	48	42	50	44	2.2	2.2	-	-	-	-	-	-	-	-
NCA12.RES.0598	NCA12	1	290358	6279757	Residential	5 Thompson Avenue Hobartville	60	54	P	48	42	50	44	2.3	2.4	-	-	-	-	-	-	-	-
NCA12.RES.0599	NCA12	1	290371	6279737	Residential	7 Thompson Avenue Hobartville	60	54	P	48	42	50	44	2.6	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0600	NCA12	1	290381	6279718	Residential	9 Thompson Avenue Hobartville	60	54	P	48	42	50	44	2.6	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0601	NCA12	1	290389	6279709	Residential	11 Thompson Avenue Hobartville	59	53	P	47	41	50	44	2.7	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0602	NCA12	1	290397	6279691	Residential	13 Thompson Avenue Hobartville	59	53	P	47	41	49	43	3	3	-	-	-	-	-	-	-	-
NCA12.RES.0603	NCA12	1	290404	6279680	Residential	15 Thompson Avenue Hobartville	59	53	P	47	41	49	43	3.3	3.4	-	-	-	-	-	-	-	-
NCA12.RES.0604	NCA12	1	290410	6279665	Residential	17 Thompson Avenue Hobartville	58	52	P	46	40	49	43	3.7	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0604	NCA12	2	290410	6279665	Residential	17 Thompson Avenue Hobartville	59	54	P	48	42	51	45	3.7	3.7	-	-	-	-	-	-	-	-
NCA12.RES.0605	NCA12	1	290426	6279645	Residential	19 Thompson Avenue Hobartville	58	52	P	46	40	49	43	4.1	4	-	-	-	-	-	-	-	-
NCA12.RES.0606	NCA12	1	290432	6279637	Residential	21 Thompson Avenue Hobartville	58	52	P	46	40	49	43	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0607	NCA12	1	290300	6279774	Residential	2 Thompson Avenue Hobartville	60	55	P	52	46	53	47	1	1	-	-	-	-	-	-	-	-
NCA12.RES.0608	NCA12	1	290301	6279763	Residential	2 Thompson Avenue Hobartville	60	55	P	50	44	52	46	1.7	1.8	-	-	-	-	-	-	-	-
NCA12.RES.0609	NCA12	1	290313	6279742	Residential	4 Thompson Avenue Hobartville	60	54	P	48	42	51	45	2.6	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0610	NCA12	1	290327	6279732	Residential	6 Thompson Avenue Hobartville	58	52	P	46	40	49	43	3.5	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0611	NCA12	1	290329	6279714	Residential	8 Thompson Avenue Hobartville	60	54	P	48	42	51	44	2.8	2.8	-	-	-	-	-	-	-	-
NCA12.RES.0612	NCA12	1	290352	6279713	Residential	10 Thompson Avenue Hobartville	60	54	P	48	42	49	43	1.2	1.2	-	-	-	-	-	-	-	-
NCA12.RES.0613	NCA12	1	290346	6279685	Residential	12 Thompson Avenue Hobartville	59	53	P	47	41	49	43	2.9	2.9	-	-	-	-	-	-	-	-
NCA12.RES.0614	NCA12	1	290357	6279666	Residential	14 Thompson Avenue Hobartville	57	51	P	45	39	49	43	4.9	4.9	-	-	-	-	-	-	-	-
NCA12.RES.0614	NCA12	2	290357	6279666	Residential	14 Thompson Avenue Hobartville	59	54	P	48	42	51	45	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0615	NCA12	1	290367	6279653	Residential	16 Thompson Avenue Hobartville	57	51	P	45	39	49	43	4.3	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0616	NCA12	1	290375	6279638	Residential	18 Thompson Avenue Hobartville	58	52	P	46	40	49	43	4.2	4.2	-	-	-	-	-	-	-	-
NCA12.RES.0617	NCA12	1	290381	6279616	Residential	20 Thompson Avenue Hobartville	58	52	P	46	40	50	44	4.3	4.2	-	-	-	-	-	-	-	-
NCA12.RES.0618	NCA12	1	290394	6279600	Residential	22 Thompson Avenue Hobartville	58	52	P	46	40	49	43	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0619	NCA12	1	290410	6279594	Residential	24 Thompson Avenue Hobartville	57	51	P	45	39	48	42	4	4	-	-	-	-	-	-	-	-
NCA12.RES.0620	NCA12	1	290393	6279586	Residential	24 Thompson Avenue Hobartville	58	52	P	46	40	50	44	4.5	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0622	NCA12	1	290406	6279565	Residential	26 Thompson Avenue Hobartville	58	52	P	46	40	50	44	4.8	4.8	-	-	-	-	-	-	-	-
NCA12.RES.0623	NCA12	1	290419	6279581	Residential	26 Thompson Avenue Hobartville	58	52	P	46	40	49	43	3.3	3.2	-	-	-	-	-	-	-	-
NCA12.RES.0624	NCA12	1	290679	6279476	Residential	41 Town Street Hobartville	56	51	P	44	39	47	41	3.7	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0625	NCA12	1	290691	6279461	Residential	43 Town Street Hobartville	56	51	P	44	39	46	40	2.7	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0626	NCA12	1	290699	6279439	Residential	45 Town Street Hobartville	55	50	P	43	38	46	41	4.4	4.2	-	-	-	-	-	-	-	-
NCA12.RES.0627	NCA12	1	290713	6279430	Residential	47 Town Street Hobartville	55	50	P	43	38	46	40	3.8	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0628	NCA12	1	290724	6279416	Residential	49 Town Street Hobartville	56	51	P	44	39	47	41	3.8	3.6	-	-	-	-	-	-	-	-
NCA12.RES.0629	NCA12	1	290737	6279409	Residential	51 Town Street Hobartville	56	50	P	44	38	47	41	4.2	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0630	NCA12	1	290747	6279397	Residential	53 Town Street Hobartville	56	50	P	44	38	46	41	4.2	3.9	-	-	-	-	-	-	-	-
NCA12.RES.0631	NCA12	1	290766	6279393	Residential	55 Town Street Hobartville	56	50	P	44	38	46	40	2.9	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0632	NCA12	1	290486	6279651	Residential	21 Valder Avenue Hobartville	59	53	P	47	41	48	42	2	2	-	-	-	-	-	-	-	-
NCA12.RES.0633	NCA12	1	290472	6279643	Residential	23 Valder Avenue Hobartville	58	52	P	46	40	48	42	2.8	2.7	-	-	-	-	-	-	-	-
NCA12.RES.0635	NCA12	1	290462	6279633	Residential	25 Valder Avenue Hobartville	58	52	P	46	40	48	42	2.4	2.3	-	-	-	-	-	-	-	-
NCA12.RES.0636	NCA12	1	290444	6279607	Residential	27 Valder Avenue Hobartville	58	52	P	46	40	49	43	4.3	4.3	-	-	-	-	-	-	-	-
NCA12.RES.0637	NCA12	1	290292	6279475	Residential	35 Valder Avenue Hobartville	56	51	P	44	39	49	43	6.4	6.2	-	-	-	-	-	-	-	-
NCA12.RES.0638	NCA12	1	290279	6279468	Residential	37 Valder Avenue Hobartville	56	50	P	44	38	49	43	6.9	6.7	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA12.RES.0639	NCA12	1	290268	6279464	Residential	39 Valder Avenue Hobartville	56	51	P	44	39	50	44	6.9	6.6	-	-	-	-	-	-	-	-
NCA12.RES.0640	NCA12	1	290242	6279460	Residential	41 Valder Avenue Hobartville	55	50	P	45	39	50	44	6.3	6.2	-	-	-	-	-	-	-	-
NCA12.RES.0641	NCA12	1	290234	6279454	Residential	43 Valder Avenue Hobartville	55	50	P	44	39	49	44	6.6	6.4	-	-	-	-	-	-	-	-
NCA12.RES.0642	NCA12	1	290227	6279445	Residential	45 Valder Avenue Hobartville	55	50	P	45	39	51	45	7.6	7.3	-	-	-	-	-	-	-	-
NCA12.RES.0643	NCA12	1	290209	6279441	Residential	47 Valder Avenue Hobartville	55	50	P	44	39	51	45	8.2	7.8	-	-	-	-	-	-	-	-
NCA12.RES.0644	NCA12	1	290192	6279434	Residential	49 Valder Avenue Hobartville	55	50	P	45	39	51	45	8.5	8.1	-	-	-	-	-	-	-	-
NCA12.RES.0645	NCA12	1	290177	6279430	Residential	51 Valder Avenue Hobartville	55	50	P	44	39	51	45	8.7	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0646	NCA12	1	290166	6279424	Residential	53 Valder Avenue Hobartville	55	50	P	45	39	51	45	8.9	8.5	-	-	-	-	-	-	-	-
NCA12.RES.0647	NCA12	1	290149	6279419	Residential	55 Valder Avenue Hobartville	55	50	P	45	39	51	45	8.4	8.1	-	-	-	-	-	-	-	-
NCA12.RES.0648	NCA12	1	290136	6279408	Residential	57 Valder Avenue Hobartville	55	50	P	46	40	52	46	9.6	9.3	-	-	-	-	-	-	-	-
NCA12.RES.0649	NCA12	1	290124	6279411	Residential	59 Valder Avenue Hobartville	55	50	P	46	40	52	46	9.6	9.4	-	-	-	-	-	-	-	-
NCA12.RES.0650	NCA12	1	290095	6279417	Residential	61 Valder Avenue Hobartville	55	50	P	47	41	52	46	7.7	7.7	-	-	-	-	-	-	-	-
NCA12.RES.0651	NCA12	1	290092	6279396	Residential	63 Valder Avenue Hobartville	55	50	P	46	40	52	46	9.4	9	-	-	-	-	-	-	-	-
NCA12.RES.0652	NCA12	1	290016	6279376	Residential	65 Valder Avenue Hobartville	55	50	P	62	57	62	56	10.9	10.2	-	-	Y	Y	-	-	Y	Y
NCA12.RES.0655	NCA12	1	290380	6279499	Residential	28 Valder Avenue Hobartville	57	52	P	47	41	50	44	3.8	3.7	-	-	-	-	-	-	-	-
NCA12.RES.0656	NCA12	1	290367	6279488	Residential	30 Valder Avenue Hobartville	57	52	P	47	41	50	44	3.9	3.8	-	-	-	-	-	-	-	-
NCA12.RES.0657	NCA12	1	290358	6279479	Residential	32 Valder Avenue Hobartville	56	51	P	47	41	50	44	4	3.9	-	-	-	-	-	-	-	-
NCA12.RES.0658	NCA12	1	290320	6279453	Residential	34 Valder Avenue Hobartville	56	51	P	46	40	50	44	5.3	5.1	-	-	-	-	-	-	-	-
NCA12.RES.0659	NCA12	1	290276	6279437	Residential	36 Valder Avenue Hobartville	55	50	P	47	41	50	44	4.5	4.5	-	-	-	-	-	-	-	-
NCA12.RES.0660	NCA12	1	290261	6279430	Residential	38 Valder Avenue Hobartville	55	50	P	47	41	50	44	4.7	4.7	-	-	-	-	-	-	-	-
NCA12.RES.0661	NCA12	1	290244	6279415	Residential	40 Valder Avenue Hobartville	55	50	P	46	40	52	46	7.1	6.9	-	-	-	-	-	-	-	-
NCA12.RES.0662	NCA12	1	290108	6279365	Residential	42 Valder Avenue Hobartville	55	50	P	49	43	54	48	8.2	8.1	-	-	-	-	-	-	-	-
NCA12.RES.0663	NCA12	1	290088	6279361	Residential	44 Valder Avenue Hobartville	55	50	P	50	44	54	48	7.7	7.6	-	-	-	-	-	-	-	-
NCA12.RES.0664	NCA12	1	290074	6279359	Residential	46 Valder Avenue Hobartville	55	50	P	51	45	55	49	8.4	8.3	-	-	-	-	-	-	-	-
NCA12.RES.0665	NCA12	1	290047	6279344	Residential	48 Valder Avenue Hobartville	55	50	P	61	56	62	56	10	8.6	Y	-	Y	Y	-	-	Y	Y
NCA13.OED.0001	NCA13	1	290981	6278878	Other (Educational)	86 Londonderry Road Hobartville	50	-	H	52	50	52	51	1.5	1	-	-	-	-	-	-	-	-
NCA13.OED.0001	NCA13	2	290981	6278878	Other (Educational)	86 Londonderry Road Hobartville	50	-	H	53	52	53	52	1.5	1	-	-	-	-	-	-	-	-
NCA13.OED.0002	NCA13	1	290951	6278854	Other (Educational)	90 Londonderry Road Hobartville	50	-	H	52	51	53	52	1.7	1.2	-	-	-	-	-	-	-	-
NCA13.OED.0003	NCA13	1	290784	6278610	Other (Educational)	112 Londonderry Road Hobartville	50	-	H	50	49	53	51	7.7	7.1	Y	-	-	-	-	-	Y	-
NCA13.OED.0003	NCA13	2	290784	6278610	Other (Educational)	112 Londonderry Road Hobartville	50	-	H	52	50	55	53	7.8	7.2	Y	-	Y	-	-	-	Y	-
NCA13.OED.0004	NCA13	1	290891	6278791	Other (Educational)	1 Smith Avenue Hobartville	50	-	H	51	50	52	51	2.9	2.2	-	-	-	-	-	-	-	-
NCA13.OED.0004	NCA13	2	290891	6278778	Other (Educational)	1 Smith Avenue Hobartville	50	-	H	50	48	52	50	5.4	4.7	Y	-	-	-	-	-	Y	-
NCA13.OED.0004	NCA13	3	290891	6278791	Other (Educational)	1 Smith Avenue Hobartville	50	-	H	54	53	55	54	3	2.2	Y	-	Y	-	-	-	Y	-
NCA13.OED.0005	NCA13	1	290852	6278669	Other (Educational)	2 Smith Avenue Hobartville	50	-	H	49	48	51	50	5.8	5.2	Y	-	-	-	-	-	Y	-
NCA13.OED.0007	NCA13	1	291469	6278454	Other (Educational)	2 College Street Richmond	50	-	H	40	38	41	39	1	0.8	-	-	-	-	-	-	-	-
NCA13.OED.0007	NCA13	2	291469	6278454	Other (Educational)	2 College Street Richmond	50	-	H	42	40	42	40	1.5	1.2	-	-	-	-	-	-	-	-
NCA13.OED.0008	NCA13	1	291060	6278546	Other (Educational)	2 College Street Richmond	50	-	H	43	41	46	44	4.3	4.2	-	-	-	-	-	-	-	-
NCA13.OED.0008	NCA13	2	291060	6278546	Other (Educational)	2 College Street Richmond	50	-	H	44	43	48	46	4.2	4	-	-	-	-	-	-	-	-
NCA13.OED.0008	NCA13	3	291060	6278546	Other (Educational)	2 College Street Richmond	50	-	H	46	45	50	47	3.9	3.7	-	-	-	-	-	-	-	-
NCA13.OED.0009	NCA13	1	291347	6278467	Other (Educational)	2 College Street Richmond	50	-	H	42	40	43	41	1.7	1.6	-	-	-	-	-	-	-	-
NCA13.OED.0009	NCA13	2	291347	6278467	Other (Educational)	2 College Street Richmond	50	-	H	43	41	45	43	1.7	1.5	-	-	-	-	-	-	-	-
NCA13.OED.0010	NCA13	1	291391	6278520	Other (Educational)	2 College Street Richmond	50	-	H	42	40	43	41	1.4	1.2	-	-	-	-	-	-	-	-
NCA13.OED.0010	NCA13	2	291391	6278520	Other (Educational)	2 College Street Richmond	50	-	H	43	41	44	42	1.5	1.3	-	-	-	-	-	-	-	-
NCA13.OED.0011	NCA13	1	291054	6278611	Other (Educational)	2 College Street Richmond	50	-	H	45	43	48	45	4	3.7	-	-	-	-	-	-	-	-
NCA13.OED.0011	NCA13	2	291054	6278611	Other (Educational)	2 College Street Richmond	50	-	H	46	45	49	47	4.3	4	-	-	-	-	-	-	-	-
NCA13.OED.0011	NCA13	3	291054	6278611	Other (Educational)	2 College Street Richmond	50	-	H	48	46	50	48	4.4	4	-	-	-	-	-	-	-	-
NCA13.OED.0012	NCA13	1	291080	6278831	Other (Educational)	2 College Street Richmond	50	-	H	48	46	48	47	1.5	1.1	-	-	-	-	-	-	-	-
NCA13.OED.0013	NCA13	1	291056	6278796	Other (Educational)	2 College Street Richmond	50	-	H	47	46	48	47	2	1.6	-	-	-	-	-	-	-	-
NCA13.OED.0014	NCA13	1	290931	6278687	Other (Educational)	2 College Street Richmond	50	-	H	46	44	48	46	4.1	3.7	-	-	-	-	-	-	-	-
NCA13.OED.0015	NCA13	1	291384	6278412	Other (Educational)	2 College Street Richmond	50	-	H	40	38	42	40	2	1.9	-	-	-	-	-	-	-	-
NCA13.OED.0016	NCA13	1	291090	6278644	Other (Educational)	2 College Street Richmond	50	-	H	44	42	46	45	4.6	4	-	-	-	-	-	-	-	-
NCA13.OED.0016	NCA13	2	291090	6278644	Other (Educational)	2 College Street Richmond	50	-	H	45	44	48	46	4.9	4.2	-	-	-	-	-	-	-	-
NCA13.OED.0017	NCA13	1	291336	6278519	Other (Educational)	2 College Street Richmond	50	-	H	39	38	41	39	1.2	1.1	-	-	-	-	-	-	-	-
NCA13.OED.0017	NCA13	2	291358	6278518	Other (Educational)	2 College Street Richmond	50	-	H	42	40	43	41	1.8	1.7	-	-	-	-	-	-	-	-
NCA13.OED.0018	NCA13	1	290948	6278681	Other (Educational)	2 College Street Richmond	50	-	H	46	44	48	46	3.7	3.3	-	-	-	-	-	-	-	-
NCA13.OED.0019	NCA13	1	291212	6278545	Other (Educational)	2 College Street Richmond	50	-	H	43	41	43	41	1.3	1	-	-	-	-	-	-	-	-
NCA13.OED.0020	NCA13	1	291037	6278826	Other (Educational)	2 College Street Richmond	50	-	H	48	47	49	47	1.5	1.1	-	-	-	-	-	-	-	-
NCA13.OED.0021	NCA13	1	290938	6278724	Other (Educational)	2 College Street Richmond	50	-	H	47	45	49	47	5.1	4.6	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA13.OED.0022	NCA13	1	290941	6278644	Other (Educational)	2 College Street Richmond	50	-	H	46	44	48	46	4.5	4.3	-	-	-	-	-	-	-	-
NCA13.OED.0023	NCA13	1	290975	6278732	Other (Educational)	2 College Street Richmond	50	-	H	46	45	47	46	2.3	1.9	-	-	-	-	-	-	-	-
NCA13.OED.0024	NCA13	1	291124	6278627	Other (Educational)	2 College Street Richmond	50	-	H	44	42	44	42	0.7	0.5	-	-	-	-	-	-	-	-
NCA13.OED.0024	NCA13	2	291124	6278627	Other (Educational)	2 College Street Richmond	50	-	H	45	43	46	44	1.2	0.9	-	-	-	-	-	-	-	-
NCA13.OED.0024	NCA13	3	291108	6278508	Other (Educational)	2 College Street Richmond	50	-	H	46	45	49	47	3.3	3.1	-	-	-	-	-	-	-	-
NCA13.OED.0025	NCA13	1	291301	6278581	Other (Educational)	2 College Street Richmond	50	-	H	44	42	45	43	1.9	1.6	-	-	-	-	-	-	-	-
NCA13.OED.0025	NCA13	2	291301	6278581	Other (Educational)	2 College Street Richmond	50	-	H	45	43	46	44	2	1.6	-	-	-	-	-	-	-	-
NCA13.OED.0025	NCA13	3	291301	6278581	Other (Educational)	2 College Street Richmond	50	-	H	46	44	47	45	2.1	1.7	-	-	-	-	-	-	-	-
NCA13.OED.0026	NCA13	1	290947	6278707	Other (Educational)	2 College Street Richmond	50	-	H	45	44	48	46	5.4	5.3	-	-	-	-	-	-	-	-
NCA13.OED.0027	NCA13	1	291245	6278588	Other (Educational)	2 College Street Richmond	50	-	H	44	42	45	43	1.8	1.4	-	-	-	-	-	-	-	-
NCA13.OED.0028	NCA13	1	291422	6278461	Other (Educational)	2 College Street Richmond	50	-	H	36	34	38	36	1.5	1.4	-	-	-	-	-	-	-	-
NCA13.OED.0028	NCA13	2	291422	6278461	Other (Educational)	2 College Street Richmond	50	-	H	40	38	42	39	1.8	1.6	-	-	-	-	-	-	-	-
NCA13.OED.0028	NCA13	3	291430	6278472	Other (Educational)	2 College Street Richmond	50	-	H	44	42	45	43	1.8	1.5	-	-	-	-	-	-	-	-
NCA13.OED.0029	NCA13	1	290907	6278702	Other (Educational)	2 College Street Richmond	50	-	H	48	46	50	48	5.2	4.7	-	-	-	-	-	-	-	-
NCA13.OED.0030	NCA13	1	290920	6278675	Other (Educational)	2 College Street Richmond	50	-	H	47	45	49	47	4.6	4.3	-	-	-	-	-	-	-	-
NCA13.OED.0031	NCA13	1	291405	6278441	Other (Educational)	2 College Street Richmond	50	-	H	39	37	41	38	1.7	1.5	-	-	-	-	-	-	-	-
NCA13.OED.0031	NCA13	2	291405	6278441	Other (Educational)	2 College Street Richmond	50	-	H	42	40	44	42	1.8	1.6	-	-	-	-	-	-	-	-
NCA13.OED.0032	NCA13	1	291230	6278529	Other (Educational)	2 College Street Richmond	50	-	H	43	41	43	41	1.3	1.1	-	-	-	-	-	-	-	-
NCA13.OED.0033	NCA13	1	291429	6278561	Other (Educational)	2 College Street Richmond	50	-	H	43	41	44	42	1.9	1.6	-	-	-	-	-	-	-	-
NCA13.OED.0034	NCA13	1	291050	6278686	Other (Educational)	2 College Street Richmond	50	-	H	47	45	49	47	3	2.6	-	-	-	-	-	-	-	-
NCA13.OED.0034	NCA13	2	291062	6278699	Other (Educational)	2 College Street Richmond	50	-	H	48	47	50	48	3.3	2.7	-	-	-	-	-	-	-	-
NCA13.OED.0034	NCA13	3	291050	6278686	Other (Educational)	2 College Street Richmond	50	-	H	49	48	51	49	3.5	2.9	-	-	-	-	-	-	-	-
NCA13.OED.0035	NCA13	1	290954	6278698	Other (Educational)	2 College Street Richmond	50	-	H	45	44	47	45	3.5	3.1	-	-	-	-	-	-	-	-
NCA13.OED.0036	NCA13	1	291068	6278797	Other (Educational)	2 College Street Richmond	50	-	H	47	45	48	46	1.8	1.4	-	-	-	-	-	-	-	-
NCA13.OED.0061	NCA13	1	291081	6278398	Other (Educational)	Londonderry Road Richmond	50	-	H	42	41	45	43	2.4	2.3	-	-	-	-	-	-	-	-
NCA13.OED.0062	NCA13	1	290954	6278569	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	47	45	4.3	4.2	-	-	-	-	-	-	-	-
NCA13.OED.0063	NCA13	1	290979	6278532	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	47	45	3.9	3.6	-	-	-	-	-	-	-	-
NCA13.OED.0063	NCA13	2	290979	6278532	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	49	47	3.7	3.4	-	-	-	-	-	-	-	-
NCA13.OED.0064	NCA13	1	291164	6278253	Other (Educational)	Londonderry Road Richmond	50	-	H	41	38	42	40	2.1	2	-	-	-	-	-	-	-	-
NCA13.OED.0064	NCA13	2	291164	6278253	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	45	43	2	1.9	-	-	-	-	-	-	-	-
NCA13.OED.0065	NCA13	1	291101	6278329	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	45	43	2.2	2	-	-	-	-	-	-	-	-
NCA13.OED.0065	NCA13	2	291101	6278329	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	48	45	2.4	2.2	-	-	-	-	-	-	-	-
NCA13.OED.0066	NCA13	1	291057	6278416	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	46	43	2.6	2.5	-	-	-	-	-	-	-	-
NCA13.OED.0067	NCA13	1	291119	6278452	Other (Educational)	Londonderry Road Richmond	50	-	H	42	40	44	42	3.4	3.3	-	-	-	-	-	-	-	-
NCA13.OED.0068	NCA13	1	291042	6278457	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	45	43	2.8	2.6	-	-	-	-	-	-	-	-
NCA13.OED.0069	NCA13	1	291077	6278360	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	2.1	2	-	-	-	-	-	-	-	-
NCA13.OED.0070	NCA13	1	291270	6278282	Other (Educational)	Londonderry Road Richmond	50	-	H	41	38	42	40	2.2	2	-	-	-	-	-	-	-	-
NCA13.OED.0071	NCA13	1	291119	6278207	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	45	43	1	0.9	-	-	-	-	-	-	-	-
NCA13.OED.0071	NCA13	2	291119	6278207	Other (Educational)	Londonderry Road Richmond	50	-	H	44	43	47	45	1.1	1	-	-	-	-	-	-	-	-
NCA13.OED.0072	NCA13	1	290892	6278526	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	48	46	4.7	4.4	-	-	-	-	-	-	-	-
NCA13.OED.0073	NCA13	1	291200	6278266	Other (Educational)	Londonderry Road Richmond	50	-	H	41	39	42	40	1.5	1.4	-	-	-	-	-	-	-	-
NCA13.OED.0074	NCA13	1	290895	6278400	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	50	47	5.9	5.6	-	-	-	-	-	-	-	-
NCA13.OED.0074	NCA13	2	290895	6278400	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	52	49	5.2	5	Y	-	-	-	-	-	Y	-
NCA13.OED.0075	NCA13	1	290878	6278516	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	50	48	5.4	5.1	-	-	-	-	-	-	-	-
NCA13.OED.0076	NCA13	1	290938	6278594	Other (Educational)	Londonderry Road Richmond	50	-	H	46	45	48	46	3.4	3.1	-	-	-	-	-	-	-	-
NCA13.OED.0077	NCA13	1	290968	6278554	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	47	45	4.3	4.2	-	-	-	-	-	-	-	-
NCA13.OED.0078	NCA13	1	290960	6278410	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	46	44	2.9	2.7	-	-	-	-	-	-	-	-
NCA13.OED.0079	NCA13	1	291014	6278285	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	47	45	3.3	3.1	-	-	-	-	-	-	-	-
NCA13.OED.0079	NCA13	2	291014	6278285	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	49	47	3.1	2.9	-	-	-	-	-	-	-	-
NCA13.OED.0080	NCA13	1	291037	6278330	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	45	43	2.4	2.3	-	-	-	-	-	-	-	-
NCA13.OED.0081	NCA13	1	290949	6278397	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	45	43	1.6	1.5	-	-	-	-	-	-	-	-
NCA13.OED.0082	NCA13	1	290931	6278452	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	47	45	3.7	3.6	-	-	-	-	-	-	-	-
NCA13.OED.0082	NCA13	2	290931	6278452	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	50	48	4.5	4.2	-	-	-	-	-	-	-	-
NCA13.OED.0083	NCA13	1	291058	6278155	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	46	44	1	0.9	-	-	-	-	-	-	-	-
NCA13.OED.0084	NCA13	1	291050	6278518	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	47	44	3.1	2.9	-	-	-	-	-	-	-	-
NCA13.OED.0084	NCA13	2	291050	6278518	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	48	46	3.2	3	-	-	-	-	-	-	-	-
NCA13.OED.0085	NCA13	1	291005	6278431	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	46	44	3.5	3.3	-	-	-	-	-	-	-	-
NCA13.OED.0085	NCA13	2	291005	6278431	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	49	47	4	3.8	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA13.OED.0086	NCA13	1	291217	6278311	Other (Educational)	Londonderry Road Richmond	50	-	H	41	39	43	41	1.8	1.7	-	-	-	-	-	-	-	-
NCA13.OED.0087	NCA13	1	290928	6278465	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	48	46	5.4	5.1	-	-	-	-	-	-	-	-
NCA13.OED.0088	NCA13	1	291116	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	45	43	2	1.9	-	-	-	-	-	-	-	-
NCA13.OED.0088	NCA13	2	291116	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	45	43	48	45	2.4	2.2	-	-	-	-	-	-	-	-
NCA13.OED.0089	NCA13	1	290866	6278497	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	50	48	6	5.7	-	-	-	-	-	-	-	-
NCA13.OED.0090	NCA13	1	290851	6278468	Other (Educational)	Londonderry Road Richmond	50	-	H	47	45	51	49	7	6.6	Y	-	-	-	-	-	Y	-
NCA13.OED.0090	NCA13	2	290851	6278468	Other (Educational)	Londonderry Road Richmond	50	-	H	49	47	53	50	6.9	6.5	Y	-	-	-	-	-	Y	-
NCA13.OED.0091	NCA13	1	291108	6278470	Other (Educational)	Londonderry Road Richmond	50	-	H	42	40	44	42	2.4	2.4	-	-	-	-	-	-	-	-
NCA13.OED.0092	NCA13	1	291133	6278427	Other (Educational)	Londonderry Road Richmond	50	-	H	43	41	45	43	2.9	2.8	-	-	-	-	-	-	-	-
NCA13.OED.0093	NCA13	1	291081	6278259	Other (Educational)	Londonderry Road Richmond	50	-	H	44	42	46	44	0.8	0.7	-	-	-	-	-	-	-	-
NCA13.OED.0093	NCA13	2	291081	6278259	Other (Educational)	Londonderry Road Richmond	50	-	H	46	44	48	46	1.3	1.2	-	-	-	-	-	-	-	-
NCA13.OED.0094	NCA13	1	291096	6278364	Other (Educational)	Londonderry Road Richmond	50	-	H	42	40	44	42	2.9	2.8	-	-	-	-	-	-	-	-
NCA13.OED.0095	NCA13	1	291071	6278290	Other (Educational)	Londonderry Road Richmond	50	-	H	42	41	44	42	1.6	1.5	-	-	-	-	-	-	-	-
NCA13.OED.0096	NCA13	1	290929	6278435	Other (Educational)	Londonderry Road Richmond	50	-	H	42	40	47	44	7.4	7	-	-	-	-	-	-	-	-
NCA13.OED.0097	NCA13	1	291159	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	38	36	40	38	2	1.9	-	-	-	-	-	-	-	-
NCA13.OED.0097	NCA13	2	291159	6278289	Other (Educational)	Londonderry Road Richmond	50	-	H	41	39	43	41	2.1	2.1	-	-	-	-	-	-	-	-
NCA13.RES.0006	NCA13	1	290744	6278824	Residential	2 Smith Avenue Hobartville	60	55	P	64	59	63	59	1.4	1.2	-	-	-	-	-	-	-	-
NCA13.RES.0006	NCA13	2	290744	6278824	Residential	2 Smith Avenue Hobartville	60	55	P	65	61	65	61	1.4	1.2	-	-	-	-	-	-	-	-
NCA13.RES.0037	NCA13	1	290801	6278268	Residential	133 Londonderry Road Richmond	58	52	P	46	40	48	42	0.5	0.4	-	-	-	-	-	-	-	-
NCA13.RES.0038	NCA13	1	290739	6278314	Residential	133 Londonderry Road Richmond	58	53	P	46	41	49	43	0.5	0.4	-	-	-	-	-	-	-	-
NCA13.RES.0038	NCA13	2	290739	6278314	Residential	133 Londonderry Road Richmond	60	55	P	48	43	51	45	0.6	0.5	-	-	-	-	-	-	-	-
NCA13.RES.0039	NCA13	1	290710	6278408	Residential	133 Londonderry Road Richmond	58	53	P	46	41	48	43	3.6	3.5	-	-	-	-	-	-	-	-
NCA13.RES.0040	NCA13	1	290739	6278453	Residential	133 Londonderry Road Richmond	58	53	P	47	41	52	46	10.4	9.9	-	-	-	-	-	-	-	-
NCA13.RES.0041	NCA13	1	290763	6278434	Residential	133 Londonderry Road Richmond	58	52	P	46	40	47	41	5.1	4.9	-	-	-	-	-	-	-	-
NCA13.RES.0042	NCA13	1	290728	6278400	Residential	133 Londonderry Road Richmond	56	51	P	44	39	46	41	2.4	2.3	-	-	-	-	-	-	-	-
NCA13.RES.0043	NCA13	1	290717	6278432	Residential	133 Londonderry Road Richmond	58	53	P	46	41	48	42	5.6	5.6	-	-	-	-	-	-	-	-
NCA13.RES.0044	NCA13	1	290693	6278357	Residential	133 Londonderry Road Richmond	60	55	P	48	43	50	45	1.1	1	-	-	-	-	-	-	-	-
NCA13.RES.0044	NCA13	2	290693	6278357	Residential	133 Londonderry Road Richmond	60	55	P	50	45	53	47	1.9	1.8	-	-	-	-	-	-	-	-
NCA13.RES.0045	NCA13	1	290649	6278505	Residential	133 Londonderry Road Richmond	60	55	P	52	46	55	50	10.1	9.8	-	-	-	-	-	-	-	-
NCA13.RES.0046	NCA13	1	290759	6278411	Residential	133 Londonderry Road Richmond	56	51	P	44	39	46	41	3.7	3.7	-	-	-	-	-	-	-	-
NCA13.RES.0047	NCA13	1	290691	6278499	Residential	133 Londonderry Road Richmond	58	53	P	48	43	53	48	10.5	9.9	-	-	-	-	-	-	-	-
NCA13.RES.0048	NCA13	1	290669	6278378	Residential	133 Londonderry Road Richmond	60	55	P	49	44	53	47	3.3	3.1	-	-	-	-	-	-	-	-
NCA13.RES.0049	NCA13	1	290800	6278379	Residential	133 Londonderry Road Richmond	55	50	P	43	38	45	40	3.7	3.6	-	-	-	-	-	-	-	-
NCA13.RES.0050	NCA13	1	290740	6278387	Residential	133 Londonderry Road Richmond	57	52	P	45	40	47	42	2.9	2.8	-	-	-	-	-	-	-	-
NCA13.RES.0051	NCA13	1	290768	6278356	Residential	133 Londonderry Road Richmond	56	51	P	44	39	46	41	1.7	1.7	-	-	-	-	-	-	-	-
NCA13.RES.0052	NCA13	1	290769	6278379	Residential	133 Londonderry Road Richmond	55	50	P	43	38	45	40	3.5	3.4	-	-	-	-	-	-	-	-
NCA13.RES.0053	NCA13	1	290762	6278293	Residential	133 Londonderry Road Richmond	58	53	P	46	41	48	43	0.4	0.4	-	-	-	-	-	-	-	-
NCA13.RES.0053	NCA13	2	290762	6278293	Residential	133 Londonderry Road Richmond	59	55	P	47	43	50	45	0.5	0.4	-	-	-	-	-	-	-	-
NCA13.RES.0054	NCA13	1	290751	6278368	Residential	133 Londonderry Road Richmond	57	52	P	45	40	47	42	3.1	3.1	-	-	-	-	-	-	-	-
NCA13.RES.0055	NCA13	1	290525	6278333	Residential	133 Londonderry Road Richmond	60	55	P	58	53	61	55	1.6	1.6	Y	-	-	-	-	-	Y	-
NCA13.RES.0055	NCA13	2	290525	6278333	Residential	133 Londonderry Road Richmond	60	55	P	59	54	62	57	1.6	1.6	Y	Y	-	-	-	-	Y	-
NCA13.RES.0056	NCA13	1	290700	6278423	Residential	133 Londonderry Road Richmond	59	54	P	47	42	50	44	3.5	3.5	-	-	-	-	-	-	-	-
NCA13.RES.0057	NCA13	1	290716	6278335	Residential	133 Londonderry Road Richmond	59	54	P	47	42	50	44	0.6	0.6	-	-	-	-	-	-	-	-
NCA13.RES.0057	NCA13	2	290716	6278335	Residential	133 Londonderry Road Richmond	60	55	P	48	44	51	46	0.8	0.7	-	-	-	-	-	-	-	-
NCA13.RES.0058	NCA13	1	290637	6278464	Residential	133 Londonderry Road Richmond	60	55	P	51	46	55	49	9.3	9.1	-	-	-	-	-	-	-	-
NCA13.RES.0059	NCA13	1	290756	6278396	Residential	133 Londonderry Road Richmond	55	50	P	43	38	46	40	3.4	3.3	-	-	-	-	-	-	-	-
NCA13.RES.0060	NCA13	1	290784	6278345	Residential	133 Londonderry Road Richmond	56	50	P	44	38	46	40	1.7	1.7	-	-	-	-	-	-	-	-
NCA13.RES.0098	NCA13	1	290796	6278332	Residential	Londonderry Road Richmond	56	51	P	44	39	46	41	1.9	1.8	-	-	-	-	-	-	-	-
NCA13.RES.0099	NCA13	1	290892	6278271	Residential	Londonderry Road Richmond	52	47	P	40	35	42	37	0.9	0.8	-	-	-	-	-	-	-	-
NCA13.RES.0099	NCA13	2	290892	6278271	Residential	Londonderry Road Richmond	58	52	P	46	40	48	43	1.9	1.7	-	-	-	-	-	-	-	-
NCA13.RES.0100	NCA13	1	290883	6278364	Residential	Londonderry Road Richmond	56	51	P	44	39	48	43	5.9	5.6	-	-	-	-	-	-	-	-
NCA13.RES.0101	NCA13	1	290798	6278409	Residential	Londonderry Road Richmond	57	52	P	45	40	51	45	9.3	9	-	-	-	-	-	-	-	-
NCA13.RES.0102	NCA13	1	290821	6278261	Residential	Londonderry Road Richmond	57	51	P	45	39	47	41	0.5	0.4	-	-	-	-	-	-	-	-
NCA13.RES.0102	NCA13	2	290821	6278261	Residential	Londonderry Road Richmond	59	54	P	47	42	50	44	1.2	1.1	-	-	-	-	-	-	-	-
NCA13.RES.0103	NCA13	1	290881	6278303	Residential	Londonderry Road Richmond	54	49	P	42	37	45	39	1.7	1.6	-	-	-	-	-	-	-	-
NCA13.RES.0104	NCA13	1	290906	6278301	Residential	Londonderry Road Richmond	53	48	P	41	36	43	38	1.1	1	-	-	-	-	-	-	-	-
NCA13.RES.0105	NCA13	1	290797	6278388	Residential	Londonderry Road Richmond	55	50	P	43	38	46	40	3.1	3.1	-	-	-	-	-	-	-	-
NCA13.RES.0106	NCA13	1	290875	6278338	Residential	Londonderry Road Richmond	53	48	P	41	36	47	41	7.2	6.9	-	-	-	-	-	-	-	-

Name	NCA	Floor	Easting	Northing	Receiver Type	Address	RNCG Criteria		Period	Predicted Noise Level (dBA)[1]						Triggers						Consider Further Additional Noise Mitigation	Stage 2A Mitigation Status
										Design Year (Stage 2B)						>2dBA increase[2]		Cumulative Limit[3]		Project Acute[4]			
										No Build		Build		Project road contribution									
							D	N		D	N	D	N	D	N	D	N	D	N	D	N		
NCA13.RES.0107	NCA13	1	290859	6278263	Residential	Londonderry Road Richmond	56	51	P	44	39	46	41	0.8	0.8	-	-	-	-	-	-	-	-
NCA13.RES.0108	NCA13	1	290874	6278239	Residential	Londonderry Road Richmond	56	51	P	44	39	46	41	0.4	0.3	-	-	-	-	-	-	-	-
NCA13.RES.0108	NCA13	2	290872	6278249	Residential	Londonderry Road Richmond	58	53	P	46	41	49	43	1.2	1.1	-	-	-	-	-	-	-	-
NCA13.RES.0109	NCA13	1	290832	6278395	Residential	Londonderry Road Richmond	58	52	P	46	40	50	44	7.1	6.8	-	-	-	-	-	-	-	-
NCA13.RES.0110	NCA13	1	290841	6278374	Residential	Londonderry Road Richmond	55	49	P	43	37	49	43	9.7	9.5	-	-	-	-	-	-	-	-
NCA13.RES.0111	NCA13	1	290844	6278306	Residential	Londonderry Road Richmond	56	51	P	44	39	46	41	1.4	1.4	-	-	-	-	-	-	-	-
NCA13.RES.0112	NCA13	1	290960	6278304	Residential	Londonderry Road Richmond	54	48	P	42	36	46	40	7.5	7	-	-	-	-	-	-	-	-
NCA13.RES.0112	NCA13	2	290960	6278304	Residential	Londonderry Road Richmond	56	51	P	44	39	48	43	7.3	6.9	-	-	-	-	-	-	-	-
NCA13.RES.0113	NCA13	1	290880	6278285	Residential	Londonderry Road Richmond	55	50	P	43	38	45	40	1.8	1.8	-	-	-	-	-	-	-	-

Note 1: The predicted noise level results are based on the triggered facade with the highest level per floor. If no facades are triggered, then the highest noise level of all facades is presented for each floor.

Note 2: The >2 dB increase trigger is presented for the facade with the greatest increase per floor and may not be the same as the facade with the highest noise levels.

Note 3: The cumulative limit trigger requires predicted noise levels to be 5 dB or more above the RNCG criteria and have a contribution of 2.0 dB or greater from project roads. If a receiver has noise levels 5 dB or more above the RNCG criteria but does not trigger the cumulative limit, then the project road contribution is less than 2.0 dB.

Note 4: The acute trigger requires predicted noise levels from project roads to be ≥65 dBA during the daytime (15hr) or ≥60 dBA during the night-time (9hr). If a receiver has noise levels above the acute level but does not trigger the acute criteria, the project road contribution is less than the criteria.

At-receiver road noise treatment guideline treatment packages

Table 9: Deemed to comply At-Property Treatment Mitigation Packages (TfNSW At -receiver road noise treatment guideline)

Construction	Treatment package				
	1	2	3	4	5
	Exceedance				
	1 5	6 8	9 11	12 14	>14
All	• Optional ceiling fans[1] • Mechanical ventilation (MV)[2] • New acoustic seals for windows • Seal around window architraves / door jambs • Seal all vents and opening	• As per category 1 treatment • External solid core door (40 mm) with perimeter acoustic seals and threshold seals			
Brick veneer or double brick Window area less than or equal to 20% floor area		For 6 dBA exceedances • 6.38mm laminate and roof insulation (R4.0 215mm thick) **or** • 6.5mm lam with acoustic interlayer For 7 dBA exceedance: • 8.5mm lam with acoustic interlayer **or** • 10.38mm lam For 8 dBA exceedance: • 8.5mm lam with acoustic interlayer **or** • 10.5mm lam with acoustic interlayer **or** • 10mm acrylic panel with nominally 100m gap **or** • >4mm secondary window with 100mm gap or equivalent	• Roof insulation (R4.0 215mm thick) For 9 dBA exceedance: • 8.5mm lam with acoustic interlayer **or** • 10.38mm lam Otherwise: • 10.5mm lam with acoustic interlayer **or** • 10mm acrylic panel with nominally 100mm gap **or** • >4mm secondary window with 100mm gap or equivalent	• >4mm secondary window with 100mm gap, or equivalent • Roof insulation (R4.0 215mm thick)	• >6mm secondary window with nominally 100mm gap, or equivalent • Roof insulation (R4.0 215mm thick)
Brick veneer or double brick Sliding door area less than or equal to 50% wall area	• 6.38mm lam, or equivalent	• 6.5mm lam with acoustic interlayer, or equivalent Roof insulation (R4.0 15mm thick) **or** • 8.5mm lam with acoustic interlayer, or equivalent	• 8.5mm lam with acoustic interlayer **or** • >4mm secondary window with nominally100mm gap, or equivalent • Roof insulation (R4.0 215mm thick)	• >6mm secondary window with nominally 100mm gap, or equivalent • Roof insulation (R4.0 215mm thick)	• >6mm secondary window with nominally 100mm gap, or equivalent • Roof insulation (R4.0 215mm thick)
Lightweight Window area less than or equal to 20% floor area	• Seal subfloor • Roof insulation (R4.0 215mm thick)	• As per Category 1 treatments For 8 dBA exceedance: • 10mm acrylic panel with nominally 100mm gap, or equivalent • Re-sheet wall lining (1x 6mm fibre cement sheeting with nominal board weight of 11 kg/m^2 and 1 x 13mm plasterboard with nominal board weight of 10.5 kg/m^2 to finish, or equivalent) • Wall insulation (R2.7 90mm thick) Otherwise: • 10mm acrylic panel with 100mm gap, or equivalent • Additional wall lining (1 x 13mm plasterboard with nominal board weight of 10.5 kg/m^2 to finish, or equivalent)	• As per Category 1 treatments • 10mm acrylic panel with nominally 100mm gap, or equivalent • Re-sheet wall lining (1x 6mm fibre cement sheeting with nominal board weight of 11 kg/m^2 and 1 x 13mm plasterboard with nominal board weight of 10.5 kg/m^2 to finish, or equivalent) • Wall insulation (R2.7 90mm thick) • Resilient mount to isolate wall lining and stud	• As per Category 1 treatments • >4mm secondary window with nominally 100mm gap, or equivalent • Re-sheet wall lining (1x 6mm fibre cement sheeting with nominal board weight of 11 kg/m^2 and 1 x 13mm plasterboard with nominal board weight of 10.5 kg/m^2 to finish, or equivalent) • Wall insulation (R2.7 90mm thick) • Resilient mount to isolate wall lining and stud	• As per Category 1 treatments • >6mm secondary window with nominally 100mm gap, or equivalent • Re-sheet wall lining (1x 6mm fibre cement sheeting with nominal board weight of 11 kg/m^2 and 1 x 13mm • plasterboard with nominal board weight of 10.5 kg/m^2 to finish, or equivalent) • Wall insulation (R2.7 90mm thick) • Resilient mount to isolate wall lining and stud

Note 1: Ceiling fans should have Direct Current (DC) electric motors to minimise noise.

Note 2: Mechanical ventilation (MC) should be installed so that fresh air is ducted from an unaffected building façade. Mechanical fan noise should meet the recommended noise level in AS2107

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