

# Appendix F

## Noise and vibration impact assessment



## **Transport for NSW**

Townson Road Upgrade between Richmond Road and  
Jersey Road – Stage 1

Noise and vibration assessment

February 2021

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# Executive summary

## Overview

Transport for NSW (TfNSW) is proposing to construct a four-lane divided road along Townson Road/Burdekin Road corridor linking Richmond Road, Marsden Park in the west and Burdekin Road, Schofields in the east. The length of the overall program of work is about 3.6 kilometres.

The overall program of work consists of two stages:

- Stage 1 involves an upgrade of about 1.6 kilometres of road extending from Richmond Road to south of Jersey Road (referred to as ‘the proposal’ for the purposes of this assessment). This would comprise an interim and ultimate phase.
- Stage 2 is about two kilometres in length involving the construction of a new road between the Stage 1 tie-in and Burdekin Road.

Stage 2 is subject to a separate planning approval.

## Construction noise

The predicted levels indicate that the noise management levels will be exceeded during both standard hours and OOHW2 works (night works) during the interim phase and ultimate phase of the project.

It should be noted that the magnitude of off-site noise impacts associated with construction will be dependent upon a number of factors including the intensity and location of construction activities, the type of equipment used by the contractor, existing background noise levels, intervening local structures and the prevailing weather conditions.

Noise mitigation measures are further discussed in Section 4.10 in accordance with the requirements of the *Construction Noise and Vibration Guideline* (CNVG) (Roads and Maritime, 2016).

## Construction noise – sleep disturbance

The predicted results indicate that up to 16 residential receivers are anticipated to exceed the sleep disturbance criteria during the construction of new road (North) and new road (South) during the construction of the interim phase. During the construction of the ultimate phase, up to 24 residences are predicted to exceed the sleep disturbance criteria.

All workers would be briefed on the need to minimise noise as a result of their activities. This would be included in a noise management plan. The Construction Noise and Vibration Management Plan (CEMP) would identify noise sensitive locations and the work practices to be implemented to minimise noise impacts.

## Construction vibration

For the interim construction works, 42 buildings within the study area have been identified to (5 existing and 37 future) fall within the 20 metre safe working distance for vibratory rolling works. For the ultimate phase construction works, 39 buildings within the study area have been identified to (3 existing and 36 future) fall within the 20 metre safe working distance for vibratory rolling works.

No vibration impacts are anticipated as a result of bored piling to construct the Bells Creek Bridge.

Mitigation measures to reduce potential vibration impacts to receivers are presented in Section 4.10.

### **Construction traffic noise**

The additional traffic during the construction of the interim phase is not predicted to increase noise levels by more than 2 dBA for sensitive receivers along the temporary access road directly adjacent to Townson Road.

The additional traffic during the construction of the ultimate phase is not predicted to increase noise levels by more than 2 dBA for sensitive receivers along Townson Road given construction heavy vehicles limit their speed to 40 km/hr along these roads. As such, compliance with the Road Noise Policy (RNP) (DECCW, 2011) is anticipated.

### **Operational road traffic noise**

Based on the operational road traffic noise modelling, 37 residential receivers qualify for noise mitigation for the ultimate phase and 13 residential receivers qualify for noise mitigation for the interim phase. It should be noted that 46 Durham Road is to be acquired prior to Stage 1 and 42 Jersey Road is to be acquired prior to Stage 2.

Groups of four or more closely spaced receivers were identified along Victory Road at locations outside the project area. Low road noise pavements were not considered a reasonable or feasible mitigation option as the sections of Victory Road adjacent to the qualifying residences were outside the project area. Noise mounds or noise barriers were not considered reasonable or feasible mitigation options due to limited space and the direct access required for residences along the eastern side of Victory Road.

Low noise pavement surfaces would likely benefit four or more closely spaced receivers along the northern side of Sunningdale Drive (20 Sunningdale Drive to 68 Sunningdale Drive). Noise modelling of low noise pavement surfaces should be undertaken during the detailed design phase of the project considering where it is reasonable and feasible to use.

Four residences along the northern side of Sunningdale Drive qualify for mitigation during the ultimate design phase. A noise barrier along the southern side of Townson Road would likely benefit four or more closely spaced receivers along the northern side of Sunningdale Drive (20 Sunningdale Drive to 68 Sunningdale Drive). A noise barrier analysis should be undertaken during the detailed design phase of the project considering where it is reasonable and feasible to construct a noise barrier.

Residual noise impacts at sensitive receivers would be eligible for at-property treatments.

### **Operational road traffic noise – sleep disturbance**

For residential receivers within Noise Catchment Area 1 (NCA01) and Noise Catchment Area 3 (NCA03), the difference in maximum noise levels due to the upgraded road configuration is not expected to result in a discernible difference in perceived noise levels

For residential receivers within Noise Catchment Area 2 (NCA02), the difference in maximum noise levels due to the upgraded road configuration is expected to result in an increase of up to 8.4 dBA. However, it should be noted that the closest residences to Townson Road within NCA02 are yet to be built (Luxeland Development Stage 2).

The residential receivers within Noise Catchment Area 4 (NCA04) are predicted to receive the largest variability in the difference of maximum noise levels. It should be noted that the majority of receivers within NCA04 are predicted to expect a reduction in maximum noise levels due to the upgraded road configuration.

### **Operational noise – audio tactile devices (ultimate phase only)**

The results indicate that the noise generated by audio tactile devices at the pedestrian crossing signal post is predicted to comply with the sleep disturbance noise criteria at all sensitive receivers during the night time period except for the six closest residential receivers within the Luxeland Development Stage 2 (corner of Townson Road and Victory Road South).

General noise mitigation measures applicable to the audio tactile devices to reduce potential sleep disturbance impacts should include volume adjustment limiting the devices to a sound pressure level of 68 dBA at one metre.

# Glossary of acoustic terms and abbreviations

Abbreviation	Definition
Acute noise level	A level of road traffic noise of 65 dBA $L_{Aeq(15hr)}$ (Day) or 60 dBA $L_{Aeq(9hr)}$ (Night), 1 metre from the building façade.
Ambient noise	The all-encompassing noise associated within a given environment. It is the composite of sounds from many sources, both near and far.
Background noise	The underlying level of noise present in the ambient noise, excluding the noise source under investigation, when extraneous noise is removed. This is described using the $L_{A90}$ descriptor.
Controlling criterion	Whichever of the day or night time $L_{Aeq}$ criteria (Noise Criteria Guideline) is exceeded by the greatest amount.
CNVG	Construction Noise and Vibration Guideline (Roads and Maritime, 2016)
Cumulative limit	A total noise level that is 5 dBA or more above the Noise Criteria Guideline criteria in the build year.
dB	Decibel is the logarithmic unit used for expressing the sound pressure level (SPL) or power level (SWL) in acoustics.
dBA	Frequency weighting filter used to measure 'A-weighted' sound pressure levels, which conforms approximately to the human ear response, as our hearing is less sensitive at very low and very high frequencies.
ENMM	Environmental Noise Management Manual (RTA, 2001)
Feasibility (NMG definition)	<p>'Feasibility' relates to engineering considerations (what can be practically built). These engineering considerations may include:</p> <ul style="list-style-type: none"> <li>• The inherent limitations of different techniques to reduce noise emissions from road traffic noise sources</li> <li>• Safety issues, such as restrictions on road vision</li> <li>• Road corridor site constraints such as space limitations</li> <li>• Floodway and stormwater flow obstruction</li> <li>• Access requirements</li> <li>• Maintenance requirements</li> <li>• The suitability of building conditions for architectural treatments.</li> </ul>
$L_{Aeq(period)}$	Equivalent sound pressure level: the steady sound level that, over a specified period of time, would produce the same energy equivalence as the fluctuating sound level actually occurring.
$L_{A90(period)}$	The sound pressure level exceeded for 90% of the measurement period.
$L_{Amax}$	The maximum sound level recorded during the measurement period.
$L_{Aeq(15hr)}$	The $L_{Aeq}$ noise level for the period 7 am to 10 pm.
$L_{Aeq(9hr)}$	The $L_{Aeq}$ noise level for the period 10 pm to 7 am.
$L_{Aeq(1hr)}$	The highest hourly $L_{Aeq}$ noise level during the day and night periods.
NCG	Noise Criteria Guideline (Roads and Maritime, 2014)
NMG	Noise Mitigation Guideline (Roads and Maritime, 2014)
NVG	Noise Validation Guideline (Roads and Maritime, 2016)
Noise sensitive receiver	An area or place potentially affected by noise including residential dwellings, schools, child care centres, places of worship, health care institutions and active or passive recreational areas.
Rating background level (RBL)	The overall single-figure background level representing each assessment period (day/evening/night) over the whole monitoring period.

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Appendix O – List of residences qualifying for architectural treatments

# 1. Introduction

## 1.1 Overview

Transport for NSW (TfNSW) is proposing to construct a four-lane divided road along Townson Road/Burdekin Road corridor linking Richmond Road, Marsden Park in the west and Burdekin Road, Schofields in the east. The length of the overall program of work is about 3.6 kilometres.

The overall program of work consists of two stages:

- Stage 1 (the proposal) involves an upgrade of about 1.6 kilometres of road extending from Richmond Road to south of Jersey Road (see Figure 1.1)
- Stage 2 is about two kilometres in length involving the construction of a new road between the Stage 1 tie-in and Burdekin Road.

Stage 2 is subject to a separate planning approval.

Staged delivery of the proposal would involve:

- Interim phase – two lanes plus earthworks (Figure 1.2)
- Ultimate phase – completion of remainder of the works for a four-lane dual carriageway.

The proposal is located within the Marsden Park Industrial and West Schofields precincts of the North West Growth Area, about 37 kilometres north-west of the Sydney central business district and three kilometres west of Schofields .

TfNSW is the proponent of the proposal, and an environmental assessment in the form of a review of environmental factors (REF) is being prepared in accordance with the requirements of Division 5.1 of the *NSW Environmental Planning and Assessment Act 1979* (EP&A Act).

This report assesses and documents the potential noise and vibration impacts of the proposal.

## 1.2 Proposal outline

The key features of the proposal are shown in Figure 1.1 and include:

- Widening and upgrading about 1.6 kilometres of Townson Road, between Richmond Road and Durham Road/Jersey Road, to provide:
  - Two traffic lanes, about 3.5 metres wide in each direction
  - A new section of Townson Road about 250 metres long, to the east of the existing alignment, between Meadow Road and Durham Road/Jersey Road
  - A temporary connection road extending from the tie-in stub to Durham Road/Jersey Road to maintain access and connectivity until Stage 2 is operational
  - A new southbound sliplane at Richmond Road intersection from Townson Road.
- Providing a wide central median along the length of the proposal narrowing at intersections to allow for turning lanes
- Constructing two bridges, each about 36 metres long, to reduce flooding afflux with one bridge over Bells Creek and another bridge about 50 metres east of Bells Creek
- Providing two new signalised intersection allowing all turning movements to and from Townson Road/Victory Road/a planned new road, and formalised pedestrian crossings at each leg of the signalised intersection

- Constructing stubs for Victory Road north and the new road to the north and south of the Townson Road intersection, with a traffic lane in each direction about 3.5 metres wide and a footway on either side, about 1.2 metres wide
- Providing a shared path about three metres wide for pedestrians and cyclists on the southern side of Townson Road along the length of the proposal and a pedestrian crossing across the new southbound sliplane from Townson Road to Richmond Road
- Providing a footpath about 1.2 metres wide on the northern side of Townson Road along the length of the proposal and at the intersections.

This interim phase allows the surrounding developments to progress and allows utilities to be relocated to their ultimate location. It is anticipated that construction of the interim phase would commence in early 2022 and would be open to traffic in 2023. Completion of the ultimate phase of the proposal would take place around five years after completion of the interim phase.

### 1.3 Scope of this assessment

The purpose of this report is to document the results of the assessment of the potential noise and vibration impacts of the operation and construction of the proposal. This report supports the REF for the proposal. The scope of assessment included:

- Identification of the existing noise levels in the proposal area
- Assess the potential operational noise impacts of the proposal including approved project opening and 10 years after opening (interim phase and ultimate phase)
- Assess the potential construction noise impacts of the proposal based on the approved project description (based on the ultimate phase)
- Determine suitable mitigation measures in order to meet the proposal noise and vibration criteria
- Prepare a report summarising the findings of the study.

### 1.4 Report structure

The report is comprised of the following sections:

- **Section 2 – Methodology:** a brief summary of the methods and guidance used for the assessment of the proposal
- **Section 3 – Existing environment:** summarises the existing noise environment
- **Section 4 – Construction noise and vibration assessment:** provides an overview of construction methods and timing, construction study area, construction noise and vibration criteria, the results of the construction noise and vibration assessment and potential mitigation options
- **Section 5 – Operational noise assessment:** discusses the operational study area, operational noise assessment criteria, noise modelling scenarios and methodology, traffic data, assessment of road traffic noise and potential mitigation options
- **Section 6 – Cumulative impacts assessment:** discusses the cumulative impacts of the proposal on the study area
- **Section 7 – Conclusion:** presents a summary of the noise and vibration assessment findings and sets out the principal conclusions for the study.
- **Section 8 – References:** presents the documents that have been referenced within this report

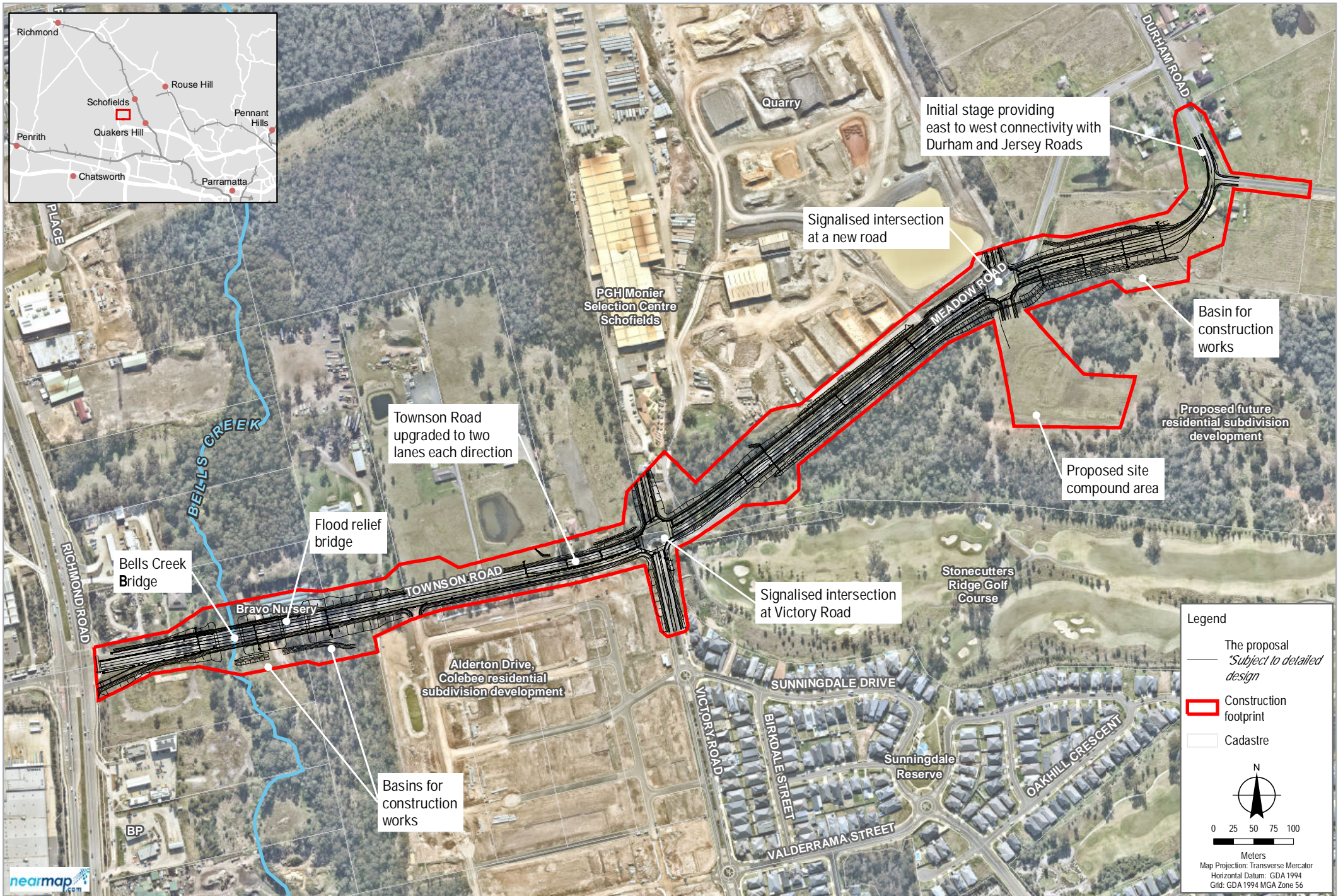


Figure 1.1 The ultimate phase of the proposal

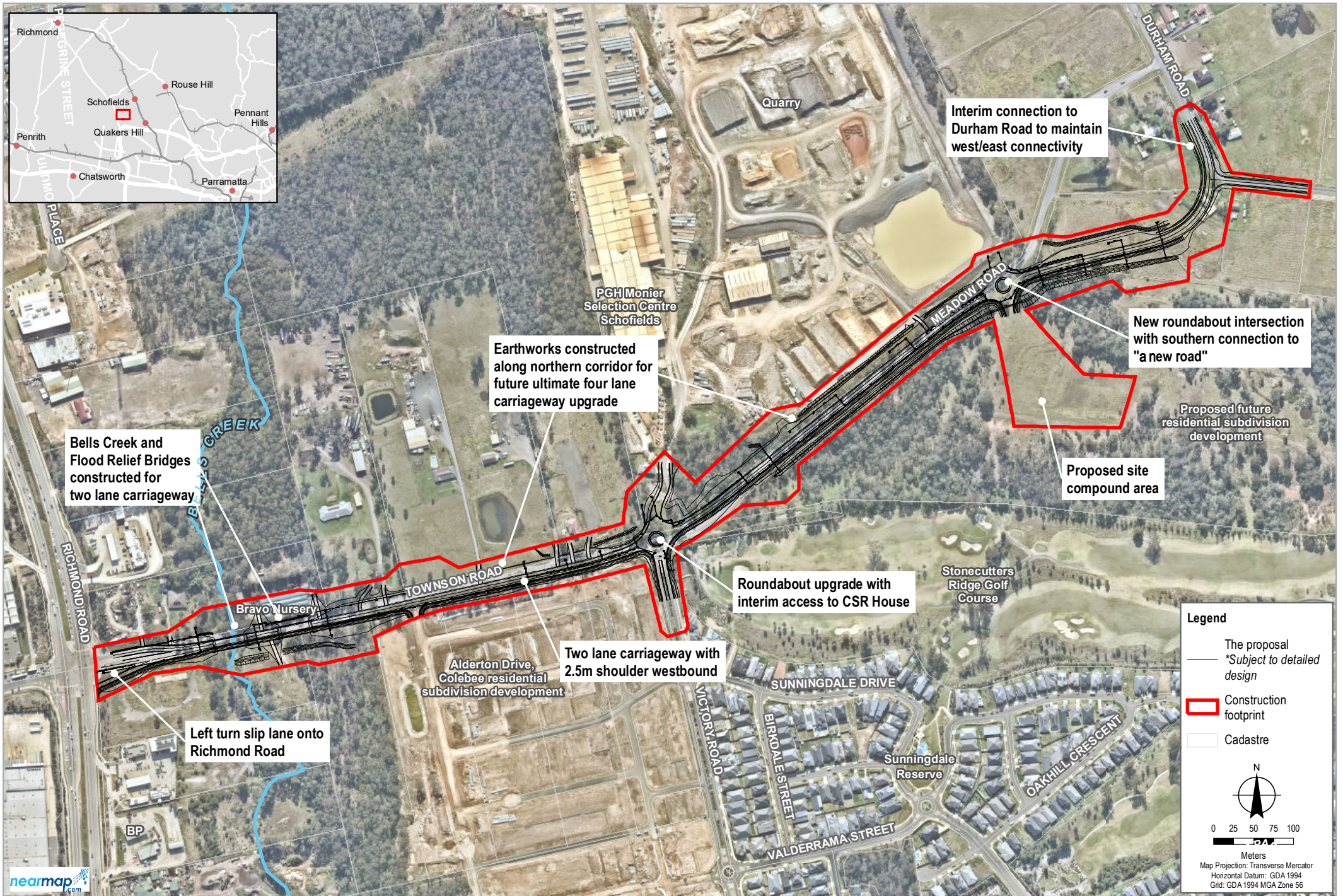


Figure 1.2 Interim phase of the proposal

## 2. Methodology

The methodology and assumptions for the noise and vibration assessment are outlined in the specific sections within this report.

This assessment has been prepared with consideration to the following guidelines and the Transport for NSW brief:

- BS 7385 – 2: 1993, Evaluation and measurement for vibration in buildings – Part 2: Guide to damage levels from groundborne vibration (British Standard, 1993)
- Noise Policy for Industry (NPI) (EPA, 2017)
- *Noise Criteria Guideline* (NCG) (Roads and Maritime, 2015)
- *Noise Mitigation Guideline* (NMG) (Roads and Maritime, 2015)
- *Noise Model Validation Guideline* (NMVG) (Roads and Maritime, 2018)
- At-Receiver Noise Treatment Guideline (ARNTG) (Roads and Maritime, 2017)
- Interim Construction Noise Guideline (ICNG) (DECC, 2009)
- Construction Noise and Vibration Guideline (CNVG) (Roads and Maritime, 2016)
- Assessing Vibration: A Technical Guideline (DEC, 2006)
- Environmental Noise Management Manual (RTA 2001)
- *Road Noise Policy* (RNP) (DECCW, 2011)

### 3. Existing noise environment

The proposal is located in the Blacktown City Council Local Government Area (LGA).

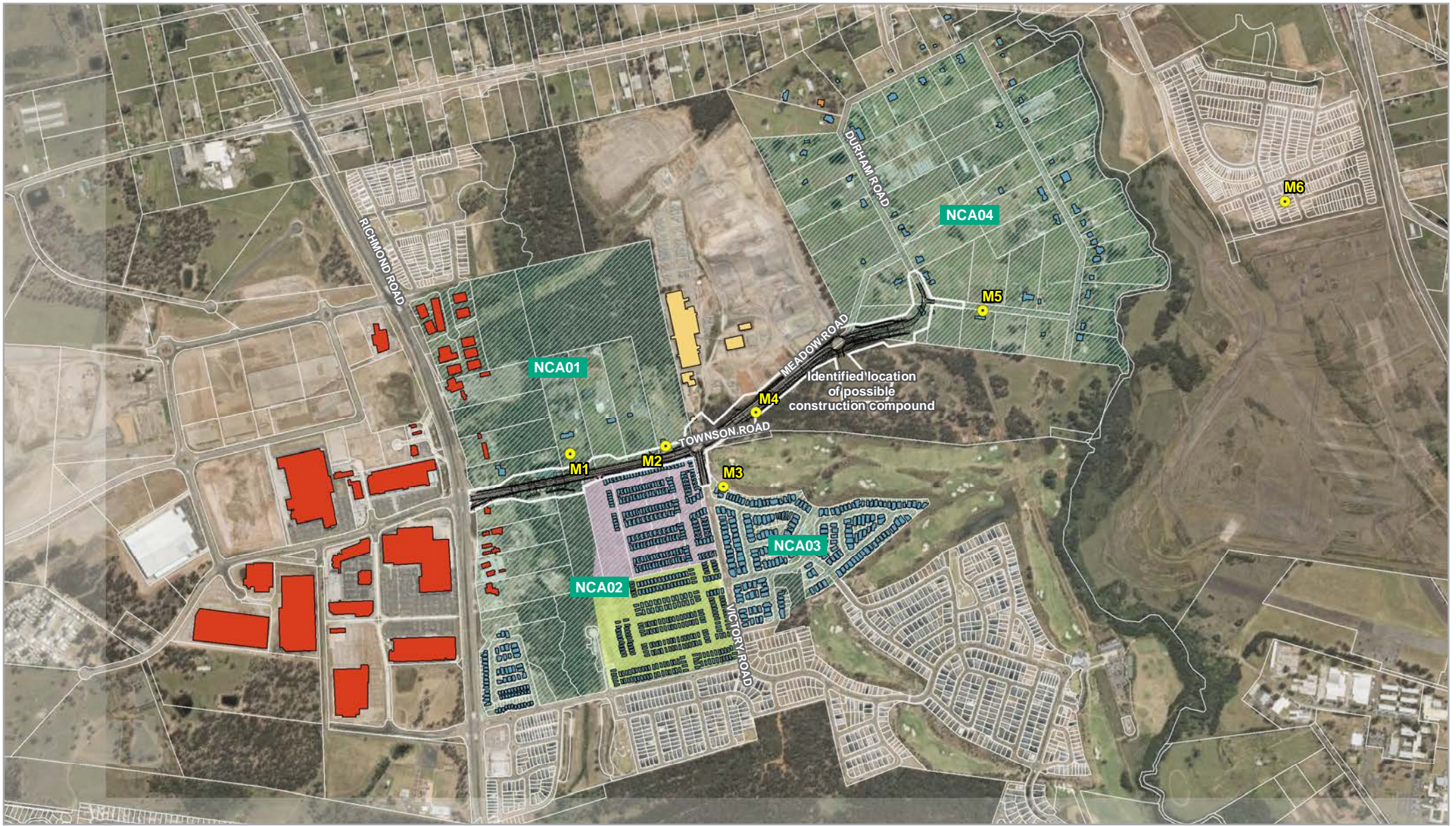
The study area has been determined to be 600 metres from the proposal as noise management levels are not expected to be exceeded outside this distance. The residential areas in the study area have been categorised into four separate noise catchment areas (NCAs). The six NCAs (4 residential, one commercial and one industrial) have different acoustic environments and land uses with differing background noise levels based on their proximity to noisy sources such as roads and industry and are described in Table 3-1. The project location, sensitive receivers, land use zones, NCAs and noise monitoring locations are shown in Figure 3.1.

Figure 3.1 also shows the future Luxeland Stage 1 and Stage 2 buildings. A detailed sensitive receiver map is shown in Appendix A and listed in Appendix B.

**Table 3-1 Noise Catchment Areas (NCAs)**

NCA	Location	Description	Land Use Zones	Sensitive receiver buildings
COM	West of Richmond Road, between Hawthorne Avenue and Langford Drive	Comprises of large commercial buildings, including: Marsden Brewhouse, Coles Express, Bunnings, ALDI, IKEA, Costco etc	<ul style="list-style-type: none"> <li>• B7</li> <li>• SP2</li> <li>• IND2</li> <li>• B5</li> </ul>	<ul style="list-style-type: none"> <li>• 18 Commercial</li> </ul>
IND	75 Townson Road	CSR Brickworks	<ul style="list-style-type: none"> <li>• RU4</li> </ul>	<ul style="list-style-type: none"> <li>• Five Industrial</li> </ul>
NCA01	North of Townson Road, between Richmond Road and CSR	Mainly homesteads on large rural properties, commercial buildings along Richmond Road.	<ul style="list-style-type: none"> <li>• RU4</li> <li>• E2</li> <li>• B5</li> <li>• SP2</li> </ul>	<ul style="list-style-type: none"> <li>• Five Residential</li> <li>• ~15 Commercial</li> </ul>
NCA02	South of Townson Road, between Richmond Road and Victory Road	Low density residential development under construction (Luxeland development and Sandstone Ridge). One future passive recreational area	<ul style="list-style-type: none"> <li>• R2</li> <li>• SP2</li> <li>• RE1</li> <li>• E2</li> <li>• B5</li> </ul>	<ul style="list-style-type: none"> <li>• 71 Residential (existing)</li> <li>• 10 Commercial (existing)</li> <li>• 216 Residential Luxeland S1 (future)</li> <li>• 343 Residential Luxeland S2 (future)</li> </ul>
NCA03	Stonecutters Ridge estate	Medium density residential development, Stonecutters Ridge Golf course and Sunningdale Reserve	<ul style="list-style-type: none"> <li>• R3</li> <li>• RE2</li> <li>• RE1</li> </ul>	<ul style="list-style-type: none"> <li>• 216 Residential</li> <li>• One passive recreational area (golf course)</li> </ul>
NCA04	Jersey Road/ Durham Road/ Kerry Road	Mainly homesteads on large rural properties and one child care centre	<ul style="list-style-type: none"> <li>• RU4</li> </ul>	<ul style="list-style-type: none"> <li>• 54 Residential</li> <li>• One Child care centre</li> </ul>



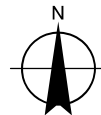


**LEGEND**

- Noise monitoring locations
- Cadastre
- The proposal (Ultimate) *Subject to detailed design*
- Construction footprint
- Stage 1
- Stage 2
- Noise catchment areas

Paper Size ISO A4  
 0 100 200  
 Metres

Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 56



Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 Proposal location, sensitive receivers,  
 new residential developments, NCAs  
 and noise monitoring locations

Project No. 1251195.0  
 Revision No. -  
 Date 03 Dec 2020

**Figure 3-1**

### 3.1 Noise monitoring methodology

The methodology for the noise monitoring program included the following:

- Identification of sensitive receivers including residences and other sensitive land uses in the vicinity of the proposal (including future land uses)
- Noise monitoring was undertaken from Wednesday 30 October 2019 to Monday 11 November 2019, at five locations near the proposal site (as shown in Figure 3.1) to determine background noise levels for the construction noise assessment and existing road traffic noise levels for the operational noise modelling verification process
- Noise monitoring was undertaken using five Svan 977 environmental noise loggers. All noise loggers were programmed to accumulate  $L_{A90}$ ,  $L_{A10}$  and  $L_{Aeq}$  noise descriptors continuously over the entire monitoring period. Details of the noise monitoring equipment are provided in Table 3-2
- A calibration check was performed on the noise monitoring equipment using a sound level calibrator. At completion of the measurements, the meter's calibration was re-checked to ensure the sensitivity of the noise monitoring equipment had not varied. The noise loggers were found to be within the acceptable tolerance of  $\pm 0.5$  dBA
- The data collected by the loggers was downloaded and analysed, and any invalid data removed. Invalid data generally refers to periods of time where average wind speeds were greater than 5 m/s, or when rainfall occurred. Meteorological data was sourced from the Bureau of Meteorology's Richmond RAAF airport weather station (number 067105)
- Traffic count data was measured at three locations at the same time as the noise monitoring. The data was used to validate existing levels of traffic noise in the proposal area in accordance with the NMVG. The three traffic count locations were:
  - Townson Road (between Richmond Road and Victory Road)
  - Victory Road (between Townson Road and Sunningdale Drive)
  - Meadow Road (between Victory Road and Durham Road).

### 3.2 Summary of noise monitoring results

Details of the noise monitoring equipment and locations are provided in Table 3-2. Noise logger data results, including Rating Background Level (RBL) and road traffic noise descriptors are summarised in Table 3-3. Measured noise data has been provided for the seven day week, however it should be noted that the noise model has been calibrated for the weekday noise levels as traffic flows are atypical during weekends. Furthermore, road traffic noise is higher during weekdays due to higher traffic volumes and the assessment aims to determine the noise impact and mitigation during these days when noise is higher than during a weekend.

Noise monitoring charts for the monitoring period are presented in Appendix C. A summary of the monitored results is provided in Table 3-3.

The noise monitoring results are typical of areas influenced by road traffic noise in a rural and suburban residential environments. The site with the highest daytime measured noise levels is M4, which was located seven metres from the Meadow Road westbound lane. The other sites which were set further back from Townson Road and Meadow Road experience lower noise levels.

Loggers M1, M2 and, M3 were used for operational noise model validation. Background noise levels at M2 (NCA01 and NCA02), M3 (NCA03) and M5 (NCA04) were used to establish construction noise management levels.

**Table 3-2 Unattended noise monitoring details**

ID	Location and coordinates	Distance to Townson Road	Equipment details	Equipment settings	Site photo
<b>M1</b>	35 Townson Road  Lot 8/DP 17048  X: 300573 Y: 6267203	60 m free field	Svan 977 Type 1 SN: 36871	A-weighted Fast time response 15 minute intervals  Pre and post calibration variation: -0.1 dBA	
<b>M2</b>	63 Townson Road  Lot 11/ DP17048  X: 300839 Y: 6267226	20 m 1 m from facade	Svan 977 Type 1 SN: 36872	A-weighted Fast time response 15 minute intervals  Pre and post calibration variation: -0.1 dBA	
<b>M3</b>	66 Sunningdale Drive Lot 1025/ DP1191446  X: 301047 Y: 6267101	130 m free-field	Svan 977 Type 1 SN: 36873	A-weighted Fast time response 15 minute intervals  Pre and post calibration variation: -0.1 dBA	
<b>M4</b>	75 Townson Road  Lot 3/ DP232574  X: 301146 Y: 6267334	7 m free-field	Svan 977 Type 1 SN: 36874	A-weighted Fast time response 15 minute intervals  Pre and post calibration variation: +0.1 dBA	
<b>M5</b>	32 Jersey Road  Lot 26/ DP12076  X: 301850 Y: 6267649	8 m free-field	Svan 977 Type 1 SN: 45733	A-weighted Fast time response 15 minute intervals  Pre and post calibration variation: -0.1 dBA	

**Table 3-3 Summary of noise monitoring results, dBA**

Monitoring location	NCA	Free-field /Facade	Address	Background noise descriptors <sup>2</sup>			Road traffic noise descriptors <sup>2,3</sup>			
				L <sub>A90</sub> (Day)	L <sub>A90</sub> (Evening)	L <sub>A90</sub> (Night)	L <sub>Aeq</sub> (15hr)	L <sub>Aeq</sub> (9hr)	L <sub>Aeq</sub> (1hr) Day	L <sub>Aeq</sub> (1hr) Night
				7 am to 6 pm, Monday to Saturday; 8 am to 6 pm Sundays & Public Holidays	6 pm to 10 pm, Monday to Sunday & Public Holidays	10pm to 7am, Monday to Saturday; 10pm to 8am Sunday & public holidays	7 am to 10 pm	10 pm to 7 am	7 am to 10 pm	10 pm to 7 am
M1	NCA01	Free-field <sup>4</sup>	35 Townson Road	43	43	41	54	53	55	56
M2	NCA01	Facade	63 Townson Road	43	39	37	61	56	63	59
M3	NCA03	Free-field	66 Sunningdale Drive	43	38	37	52	48	52	50
M4	-	Free-field	75 Townson Road	41	37	37	65	59	67	62
M5	NCA04	Free-field	32 Jersey Road	38	36	31	55	40	57	53

- Notes:
1. No suitable monitoring location could be established within NCA02. As such, background noise levels from M2 were used to determine the construction noise management levels for NCA02 and are considered representative of the NCA02 acoustic environment.
  2. All noise monitoring activities were undertaken in accordance with the *Noise Policy for Industry* (EPA, 2017) long-term monitoring method.
  3. Road traffic noise descriptors have been presented as measured.
  4. Free-field noise monitoring results include a +2.5 dB façade correction.

## 4. Construction noise and vibration assessment

### 4.1 Methodology

Construction noise and vibration impacts associated during the construction of the interim and ultimate phases of the proposal have been assessed. The methodology for the construction noise and vibration assessment included:

- The construction study area was established in accordance with the CNVG.
- The rating background levels (RBL) for the proposal were calculated from the noise monitoring data. The RBLs were used to establish the construction noise management levels in accordance with the ICNG.
- A list of likely construction activities was established for the interim and ultimate phases of the proposal. Typical sound power levels for each item of equipment were sourced from the CNVG and *Australian Standard AS2436-2010: Guide to noise and vibration control on construction, demolition and maintenance sites*.
- For each construction activity, the potential noise impacts on the surrounding sensitive receivers have been predicted and assessed against the construction noise management levels and sleep disturbance criteria.
- Noise impacts associated with construction traffic impacts were assessed.
- For vibratory plant and equipment, a construction vibration assessment was undertaken and potential impacted sensitive receivers identified.
- Construction noise and vibration mitigation measures were considered with reference to the CNVG.

### 4.2 Study area

Noise emissions from construction have been assessed for receivers in the construction study area during standard construction hours and outside the standard construction hours. A detailed quantitative construction noise assessment has been undertaken with consideration to the CNVG as many affected receivers have been identified within the affected distance and the duration of the construction works will be greater than six weeks.

The construction study area has been identified as per the CNVG and includes all sensitive receivers within the affected distance, where the affected distance is defined in the CNVG as the *“the distance up to which noise levels are expected to exceed the Noise Management Level as defined by the EPA’s ICNG”*. The noise management levels relevant to this proposal are discussed in section 4.4.

The construction noise study area is the logical boundary for receivers within approximately 600 metres of the proposal. Sensitive receivers within the construction study area include residences, commercial premises, industrial premises, a passive recreational area and a child care centre (educational institute). Sensitive receivers included in this assessment are listed in Appendix B. Both single storey and double storey sensitive receivers were considered. A detailed sensitive receiver map is also shown in Appendix A.

### 4.3 Construction staging

Construction activities would be guided by a construction environmental management plan (CEMP) to ensure work is carried out to Transport for NSW specifications within the specified work area. Detailed work methodologies would be determined during detailed design and construction planning. The construction works are proposed to be undertaken in following stages outlined in Table 4-1. 12 indicative construction scenarios have been used to assess the potential impacts at sensitive receivers in the study area (7 interim scenarios and 5 ultimate scenarios).

**Table 4-1 Construction scenarios for Townson Road Stage 1 (interim and ultimate phases)**

Construction staging	Scenario	Location	Description of task
Interim	CS01	Throughout entire construction corridor	Enabling works, site establishment and utility relocation
	CS02	Throughout entire construction corridor	Bulk earthworks and construction of drainage and structures
	CS03	Western section of Townson Road	Construction of access roads along Townson Road
	CS04	South of CSR (75 Townson Road)	Construction compound (interim)
	CS05	Bells Creek Bridge and surrounds	Bridge construction
	CS06	Throughout entire construction corridor	Pavement and finishing works
	CS07	Victory Road and New Road intersections	Intersection night works
Ultimate	CS08	Throughout entire construction corridor	Enabling works and site establishment
	CS09	South of CSR (75 Townson Road)	Construction compound
	CS10	Bells Creek Bridge and surrounds	Bridge widening
	CS11	Throughout entire construction corridor	Pavement widening and finishing works
	CS12	Victory Road and New Road intersections	Intersection night works

#### 4.3.1 Proposed working hours

Construction would take about 18 months to complete for each design phase of the project. It is anticipated that construction would be carried out during standard and outside of standard construction working hours:

Night works would be also necessary to construct the new Victory Road North and South intersections and the new road (North) and new road (South) intersection in for both the interim and ultimate phases to minimise traffic disruptions along Townson Road.

Any work undertaken outside of standard working hours would be in accordance with the ICNG and the CNVG.

## 4.4 Construction noise criteria

The ICNG provides guidance for assessment management of construction noise. The guideline recommends standard hours for construction activities as Monday to Friday: 7 am to 6 pm, Saturday: 8 am to 1 pm and no work on Sundays or Public Holidays.

Construction activities should aim to be undertaken during the recommended standard hours. However, the following activities have justification to be undertaken outside the recommended construction hours. This is assuming all reasonable and feasible mitigation measures are implemented to minimise the impacts to the surrounding community:

- The delivery of oversized plant or structure
- Emergency work
- Works for which it can be demonstrated that there is a need to operate outside the recommended standard hours
- Works which maintain noise levels at receivers to below the night-time noise affected construction noise management levels.

The night time construction works associated with the proposal would fall under the third category “works for which it can be demonstrated that there is a need to operate outside the recommended standard hours” as the night time construction would be required to minimise traffic impacts along Townson Road and approvals of lane closures would only be granted at night.

Table 4-2 and Table 4-3 detail the noise management levels at sensitive residences and land uses respectively.

### 4.4.1 Sleep disturbance

The ICNG states that where construction works are planned to extend over more than two consecutive nights, the analysis should include maximum noise levels and the extent and number of times the maximum exceeds the sleep disturbance criteria. Further guidance for sleep disturbance is provided in the *Road Noise Policy* (DECCW, 2011) which concludes, based on the research to date, that:

- Maximum internal noise levels below 50 to 55 dBA are unlikely to awaken people from sleep
- One or two noise events per night, with maximum internal noise levels of 65 to 70 dBA, are not likely to affect health and wellbeing significantly.

The CNVG recommends a 65 dBA  $L_{Amax}$  external noise level for sleep disturbance. This level has been adopted for this assessment.

**Table 4-2 Noise management levels at residences**

Time of day	Management level $L_{Aeq(15min)}$	How to apply
<b>Recommended standard hours:</b> Monday to Friday 7am to 6pm Saturday 8am to 1pm No work on Sundays or public holidays	Noise affected Rating background level + 10 dBA	<p>The noise affected level represents the noise level which there may be some community reaction to noise.</p> <p>Where the predicted or measured <math>L_{Aeq(15min)}</math> is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level.</p> <p>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.</p>
	Highly noise affected 75 dBA	<p>The highly noise affected level represents the point above which there may be strong community reaction to noise. Where noise is above this level, the relevant authority (consent, determining or regulatory) may require respite periods by restricting the hours that the very noisy activities can occur, taking into account:</p> <p>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).</p> <p>If the community is prepared to accept a longer period of construction in exchange for restrictions on construction times.</p>
<b>Outside recommended standard hours</b>	Noise affected Rating background level + 5 dBA	<p>A strong justification would typically be required for works outside the recommended standard hours.</p> <p>The proponent should apply all feasible and reasonable work practices to meet the noise affected level.</p> <p>Where all feasible and reasonable practices have been applied and noise is more than 5 dBA above the noise affected level, the proponent should negotiate with the community.</p>

**Table 4-3 Noise management levels at sensitive land uses**

Land use	Management level, $L_{Aeq(15min)}$ (applies when properties are being used)
Classrooms at schools and other educational institutions	Internal noise level 45 dBA External noise level 55 dBA
Passive recreation areas (characterised by contemplative activities that generate little noise and where benefits are compromised by external noise intrusion, for example, reading, meditation)	External noise level 60 dBA
Commercial premises	External noise level 70 dBA
Industrial premises	External noise level 75 dBA



#### 4.4.2 Proposal specific construction noise management level

The noise management levels at sensitive receivers in the study area are summarised in Table 4-4 and have been based on Table 4-2 and Table 4-3.

The study area has been split into four (4) discrete Noise Catchment Areas (NCAs) as the four areas have different acoustic environments.

The lowest measured rating background level (RBL) for the day, evening and night time periods has been adopted from the two measurement locations in NCA01 (63 and 75 Townson Road). The RBLs from NCA01 have also been used to establish the noise management levels (NMLs) for NCA02.

M3 (66 Sunningdale Drive) was used to establish the NMLs for NCA03 and M5 (32 Jersey Road) was used to establish the NMLs for NCA04.

**Table 4-4 Proposal specific construction noise management level, dBA**

Receiver area	Construction noise management level, $L_{Aeq}(15min)$					
	During standard recommended hours		Outside of standard recommended hours			
	7 am to 6 pm Monday to Friday, 8 am to 1 pm Saturday, no work on Sunday or public holidays		Day 7 am to 8 am and 1 pm to 6 pm Saturday, 8 am to 6 pm Sunday & public holidays	Evening 6 pm to 10 pm Monday to Sunday & public holidays	Night 10 pm to 7 am, Monday to Saturday; 10 pm to 8 am Sunday & public holidays	Sleep dist. criteria <sup>1</sup> $L_{Amax}$
	Noise affected	Highly noise affected				
Residential (NCA01 and NCA02)	53	75	48	44	42	65
Residential (NCA03)	53	75	48	43	42	65
Residential (NCA04)	48	75	43	41	36	65
Child care centre	55 (External noise level) <sup>1</sup>					
Golf course	60 <sup>1</sup>					
Commercial premises	70 <sup>1</sup> (External noise level)					
Industrial premises	75 <sup>1</sup> (External noise level)					

Note: 1. Applies when properties are being used.

#### 4.5 Construction vibration criteria

##### 4.5.1 Human comfort

Vibration criteria have been set with consideration to *Assessing Vibration: a technical guideline* (DEC, 2006), as referenced in the CNVG. British Standard *BS 6472 – 1992, Guide to Evaluation of Human Exposure to Vibration in Buildings (1 Hz to 80 Hz)* is recognised by the guideline as the preferred standard for assessing the ‘human comfort criteria’.

Typically, construction activities generate ground vibration of an intermittent nature. Intermittent vibration is assessed using the vibration dose value. Acceptable values of vibration dose are presented in Table 4-5 for sensitive receivers.

Whilst the assessment of response to vibration in *BS 6472-1:1992* is based on vibration dose value (refer to Table 4-5) and weighted acceleration, for construction related vibration, it is considered more appropriate to provide guidance in terms of a peak value (velocity in mm/s), since this parameter is likely to be more routinely measured based on the more usual concern over potential building damage (see Table 4-5 Table 4-8).

**Table 4-5 Human comfort intermittent vibration limits (BS 6472-1992)**

Receiver type	Period	Intermittent vibration dose value (m/s <sup>1.75</sup> )	
		Preferred value	Maximum value
Residential	Day (7 am and 10 pm)	0.2	0.4
	Night (10 pm and 7 am)	0.13	0.26
Offices, schools, educational institutes and places of worship	When in use	0.4	0.8

Continuous and impulsive vibration would be assessed against the vibration criteria provided in *Assessing Vibration a Technical Guideline* (DEC, 2006). Peak particle velocity preferred and maximum values are provided in Table 4-6 and are based on Appendix C of the guideline.

**Table 4-6 Human comfort continuous and impulsive vibration criteria (EPA)**

Receiver type	Period	Peak particle velocity (mm/s)	
		Preferred value	Maximum value
Continuous vibration			
Residential	Day	0.28	0.56
	Night	0.20	0.40
Offices, schools, educational institutes and places of worship	When in use	0.56	1.1
Impulsive vibration			
Residential	Day	8.6	17.0
	Night	2.8	5.6
Offices, schools, educational institutes and places of worship	When in use	18.0	36.0

Humans are capable of detecting vibration at levels which are well below those causing risk of damage to a building. The degrees of perception for humans are suggested by the vibration level categories given in *British Standard, BS 5228.2 – 2009, Code of Practice Part 2 Vibration for noise and vibration on construction and open sites – Part 2: Vibration* and are shown below in Table 4-7.

**Table 4-7 Guidance on effects of vibration levels for human comfort (BS 5228.2-2009)**

Vibration level	Effect
0.14 mm/s	Vibration might be just perceptible in the most sensitive situations for most vibration frequencies associated with construction.
0.3 mm/s	Vibration might be just perceptible in residential environments.
1.0 mm/s	It is likely that vibration at this level in residential environments will cause complaints, but can be tolerated if prior warning and explanation has been given to residents.
10 mm/s	Vibration is likely to be intolerable for any more than a very brief exposure.

#### 4.5.2 Structural damage

The CNVG provides minimum working distances for cosmetic damage to standard structures. The CNVG recommends that “*where predicted ground-borne vibration levels exceed the cosmetic damage objectives, a different construction method with lower source vibration levels must be used where feasible and reasonable otherwise construction works should not proceed unless attended vibration measurements are undertaken at the commencement of the works*”. The CNVG minimum distances for plant and equipment relevant to the proposal are further discussed in section 4.9.2.

The minimum working distances for cosmetic damage provided in the CNVG are based on British Standard 7385-2:1993 *Evaluation and measurement for vibration in buildings Part 2 - Guide to damage levels from ground borne vibration* which represents a definitive standard against which the likelihood of building damage from ground vibration can be assessed. The vibration levels in this standard are adopted as building damage criteria due to construction activities and are presented in Table 4-8.

**Table 4-8 Transient vibration guide values–minimal risk of cosmetic damage**

Line	Type of Building	Peak Component Particle Velocity in Frequency Range of Predominant Pulse	
		4 Hz to 15 Hz	15 Hz and above
1	Reinforced or framed structures Industrial and heavy commercial buildings	50 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

## 4.6 Construction noise impacts

### 4.6.1 Noise generating equipment

Plant and equipment needed for the proposal would be determined during the construction planning phase. Likely equipment including typical sound levels are summarised in Table 4-9. Noise level data has been obtained from Australian Standard *AS2436:2010: Guide to Noise and vibration control on construction, demolition and maintenance sites*, the CNVG and the GHD noise database. Other equipment may be used however it is anticipated that they would produce similar noise emissions.

The magnitude of off-site noise impacts associated with construction will be dependent upon a number of factors:

- The intensity and location of construction activities
- The type of equipment used
- Existing background noise levels
- Intervening terrain and structures
- The prevailing weather conditions.

Construction machinery would likely move about the study area altering noise for individual receivers. During any given period, the machinery items to be used in the study area would operate at maximum sound power levels for only brief stages. At other times, the machinery may produce lower sound levels while carrying out activities not requiring full power. It is highly unlikely that all construction equipment would be operating at their maximum sound power levels at any one time. Certain types of construction machinery would be present in the study area for only brief periods during construction. Therefore noise predictions are considered conservative.

**Table 4-9 Construction plant and equipment sound power levels, dBA**

Plant and equipment	Typical sound power level dBA <sup>1</sup>	Source
Asphalt paver	108	AS2436
Bogie tipper truck	110	CNVG
Cherry picker	105	AS2436
Concrete pump	108	AS2436
Concrete truck	109	CNVG
Drilling/boring equipment	114	GHD database
Excavator (20-35t)	107	AS2436
Franna crane	98	CNVG
Generator	99	AS2436
Grader	110	AS2436
Light vehicle (4WD)	106	AS2436
Loader	110	AS2436
Mobile crane	104	AS2436
Piling rig (bored)	112	CNVG
Rock breaker/crusher	118	CVNG
Truck	107	AS2436
Vibratory Rollers (12-15t)	109	CNVG
Water truck	107	AS2436

Construction noise levels at receivers have been predicted based on the potential construction scenarios listed in Table 4-10. The scenarios represent different equipment noise levels and provide an indication of how noise levels may change across the proposal area when different construction activities are being undertaken.

It should be noted that the scenario sound power level is a representative worst-case value assigned to the scenario and is representative of the two loudest items of equipment operating at a single point at the nearest distance between the construction area and the receiver.

Additionally, the  $L_{A1}$  sound power levels for S07 and S12 are presented for the assessment of sleep disturbance for night-works.

**Table 4-10 Construction noise scenarios and equipment**

Staging	Interim							Ultimate				
	CS01	CS02	CS03	CS04	CS05	CS06	CS07	CS08	CS09	CS10	CS11	CS12
Standard construction hours	✓	✓	✓	✓	✓	✓	×	✓	✓	✓	✓	×
OOHW2 (Night)	×	×	×	×	×	×	✓	×	×	×	×	✓
Asphalt paver			✓			✓	✓				✓	✓
Cherry picker					✓					✓		
Concrete pump			✓		✓	✓	✓			✓	✓	✓
Concrete truck			✓		✓	✓	✓			✓	✓	✓
Boring equipment	✓	✓						✓	✓			
Excavator (20-35t)	✓	✓		✓						✓		
Franna crane					✓			✓		✓		
Generator	✓	✓	✓		✓	✓	✓		✓		✓	✓
Grader				✓				✓	✓	✓		
Light vehicle (4WD)	✓	✓	✓	✓	✓	✓	✓				✓	✓
Loader	✓	✓						✓				
Mobile crane						✓	✓			✓	✓	✓
Piling rig (bored)					✓							
Rock breaker/crusher		✓						✓	✓	✓		
Trucks	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Vibratory Rollers (12-15t)	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓
Water truck	✓	✓		✓								
<b>Activity SWL LAeq, dBA</b>	<b>115</b>	<b>119</b>	<b>112</b>	<b>113</b>	<b>114</b>	<b>112</b>	<b>112</b>	<b>115</b>	<b>113</b>	<b>114</b>	<b>112</b>	<b>112</b>
<b>Activity SWL LA1, dBA</b>	-	-	-	-	-	-	<b>115</b>	-	-	-	-	<b>115</b>

## 4.6.2 Noise modelling parameters

The noise model inputs and assumptions for the construction assessment are provided in Table 4-11. The noise modelling has been undertaken without mitigation measures (such as hoarding) to be conservative.

**Table 4-11 Construction noise modelling assumptions**

Modelling component	Assumption
Noise model	SoundPLAN v7.4
Prediction algorithm	<i>ISO 9613 – 2 Acoustics – Attenuation of sound during propagation outdoors.</i>
Meteorology	ISO 9613 considers the presence of a well-developed moderate ground based temperature inversion, such as commonly occurs on clear, calm nights or ‘downwind’ conditions which are favourable to sound propagation
Ground absorption coefficient	G = 0.75
Atmospheric absorption	Based on an average temperature of 10 °C and an average humidity of 70 %
Receiver heights	1.5 m above building ground level (ground floor) and an additional 3.0 m for every storey

### 4.6.1 Predicted construction noise impacts

Predicted noise levels from the construction scenarios during recommended construction hours and outside the recommended construction hours (night works) are provided in Appendix D and Appendix E.

Table 4-12 presents the predicted number of exceedances of the construction noise management levels for each construction scenario.

The predicted levels indicate that the noise management levels will be exceeded during both standard hours and OOHW2 works (night works).

It should be noted that the magnitude of off-site noise impacts associated with construction will be dependent upon a number of factors including the intensity and location of construction activities, the type of equipment used by the contractor, existing background noise levels, intervening local structures and the prevailing weather conditions.

The predicted noise levels are considered worst-case and will decrease as the construction activity moves along the road corridor, away from affected receivers.

Noise mitigation measures are further discussed in Section 4.10 in accordance with the requirements of the CNVG. Maps showing the construction area for each construction scenario are presented in Appendix F along with the perception categories as per the CNVG (see Table 4-20).

**Table 4-12 Predicted number of exceedances of the NML**

Staging	Interim							Ultimate				
	CS01	CS02	CS03	CS04	CS05	CS06	CS07	CS08	CS09	CS10	CS11	CS12
Standard construction hours	✓	✓	✓	✓	✓	✓	×	✓	✓	✓	✓	×
OOHW2 (Night)	×	×	×	×	×	×	✓	×	×	×	×	✓
NCA01	5	5	4	0	3	5	5	5	0	3	5	5
NCA02	117	191	43	0	31	94	136	121	0	21	93	148
NCA03	29	40	0	0	0	17	57	31	0	0	16	170
NCA04	25	41	0	5	0	15	33	25	5	0	16	55
All residential	176	277	47	5	34	131	231	182	5	24	130	378
Highly noise affected	40	50	3	0	0	37	3	41	0	0	38	10
Sleep dist. LA1 >65	-	-	-	-	-	-	16	-	-	-	-	24
Commercial	1	3	0	0	0	1	-	1	0	0	1	-
Industrial	0	1	0	0	0	0	-	1	0	0	1	-
Child care centre	0	0	0	0	0	0	-	0	0	0	0	-
Golf course	1	1	0	0	0	1	-	1	0	0	1	-

Note: 1.



## **4.7 Discussion of results**

The predicted results presented in Table 4-12 indicate the following:

### **4.7.1 Interim phase main works**

#### **CS01 – Enabling works, site establishment and utility relocation**

Exceedances of the residential NMLs (standard hours) are predicted at all NCAs, with the greatest number of exceedances predicted to occur in NCA02. The highly noise affected level of 75 dBA is predicted to be exceeded at 40 residences. Non-residential NMLs are also predicted to be exceeded at 1 commercial building and at the golf course.

#### **CS02 – Bulk earthworks and construction of drainage and structures**

The residential NMLs (standard hours) are predicted to be exceeded at all NCAs, with the greatest number of exceedances predicted to occur in NCA02, The highly noise affected level predicted of 75 dBA is to be exceeded at 50 residences. Non-residential NMLs are also predicted to be exceeded at 3 commercial buildings, 1 industrial building and at the golf course.

#### **CS03 – Construction of access roads along Townson Road**

Exceedances of the residential NMLs (standard hours) are predicted at NCA01 and NCA02, with the greatest number of exceedances predicted to occur in NCA02. The highly noise affected level of 75 dBA is predicted to be exceeded at 3 residences. Noise levels are not predicted to exceed the NMLs at non-residential buildings.

#### **CS05 – Bridge construction**

Exceedances of the residential NMLs (standard hours) are predicted at NCA01 and NCA02, with the greatest number of exceedances predicted to occur in NCA02. The highly noise affected level is not predicted to be exceeded and no non-residential buildings are predicted to exceed the NMLs.

#### **CS06 – Pavement and finishing works**

Exceedances of the residential NMLs (standard hours) are predicted at all NCAs, with the greatest number of exceedances predicted to occur in NCA02. The highly noise affected level is predicted to be exceeded at 37 residences. Non-residential NMLs are also predicted to be exceeded at 1 commercial building and at the golf course.

### **4.7.2 Ultimate phase main works**

#### **CS08 – Enabling works and site establishment**

The residential NMLs (standard hours) are predicted to be exceeded at all NCAs, with the greatest number of exceedances predicted to occur in NCA02. The highly noise affected level of 75 dBA is predicted to be exceeded at 41 residences. Non-residential NMLs are also predicted to be exceeded at 1 commercial buildings, 1 industrial building and at the golf course.

#### **CS10 – Bridge widening**

The residential NMLs (standard hours) are predicted to be exceeded at NCA01 and NCA02, with the greatest number of exceedances predicted to occur in NCA02. The highly noise affected level is not predicted to be exceeded and no non-residential buildings are predicted to exceed the NMLs.



### CS11 – Pavement widening and finishing works

The residential NMLs (standard hours) are predicted to be exceeded at all NCAs. The greatest number of exceedances are predicted to occur in NCA02 with the highly noise affected level predicted to be exceeded at 38 residences. Non-residential NMLs are also predicted to be exceeded at 1 commercial buildings, 1 industrial building and at the golf course.

#### 4.7.3 Construction compounds

The construction compound would typically include a combination of demountable offices, meal rooms, toilets/showers, parking facilities, secure and bunded storage areas for site materials, including fuel and chemicals. The compound site would also typically allow for lay down areas, equipment storage, maintenance sheds, chemical/fuel stores and stockpile of earth and construction materials.

The compound site would also be the nominated stockpile area. A potential compound site location has been nominated within a clearing area at 75 Townson Road (east of Meadow Road). The compound location is shown in Figure 1.1.

### CS04 – Construction compound (interim phase)

Noise levels are predicted to exceed the residential NMLs (standard hours) 5 residences within NCA04, with no residences exceeding the highly noise affected level. No non-residential buildings are predicted to exceed the NMLs.

### CS09 – Construction compound

Noise levels are predicted to exceed the residential NMLs (standard hours) 5 residences within NCA04, with no residences exceeding the highly noise affected level. No non-residential buildings are predicted to exceed the NMLs.

#### 4.7.4 Night works

Out of hours night works have the potential to cause sleep disturbance impacts at sensitive receiver. The ICNG states that 'where construction works are planned to extend over more than two consecutive nights, the impact assessment should cover the maximum noise level from the proposed works'.

For the construction scenarios identified as potentially occurring outside of standard construction hours (CS07 and CS12), a  $L_{A1(1\text{minute})}$  noise level of 115 dBA has been adopted to represent the maximum noise level for the construction of the intersections during the night period.

The predicted  $L_{A1}$  levels for each construction scenario are provided in Appendix E.

All workers would be briefed on the need to minimise noise as a result of their activities. This would be included in a noise management plan. The noise management plan would identify noise sensitive locations and the work practices to be implemented to minimise noise impacts.

### CS07 Intersection night works (interim phase)

The  $L_{Aeq(15\text{min})}$  noise levels are predicted to exceed the residential NMLs at all NCAs with the greatest number of exceedances occurring in NCA02. The highly affected noise level of 75 dBA is predicted to be exceeded at 3 residences.

The  $L_{A1(1\text{min})}$  noise levels are predicted to exceed 65 dBA (sleep disturbance criteria) at 16 residential receivers during the construction of the intersections during the interim phase.

## CS12 Intersection night works (ultimate phase)

The  $L_{Aeq(15min)}$  noise levels are predicted to exceed the residential NMLs at all NCAs with the greatest number of exceedances occurring in NCA03. The highly affected noise level of 75 dBA is predicted to be exceeded at 10 residences.

The  $L_{A1(1min)}$  noise levels are predicted to exceed 65 dBA (sleep disturbance criteria) at 24 residential receivers during the construction of the intersections during the ultimate phase

### 4.8 Construction traffic noise impacts

The CNVG recommends that, in assessing construction traffic noise impacts, “an initial screening test should first be applied by evaluation whether noise levels will increase by more than 2 dBA due to construction traffic or a temporary reroute due to a road closure. Where increases are 2 dBA or less then no further assessment is required”.

The main access routes for construction vehicles would be along Richmond Road and Townson Road travelling in both directions. Construction would generate heavy vehicle movements associated with the transportation of construction machinery, equipment and materials to the site. Light vehicle movements would be associated with employees and smaller deliveries.

It should be noted that construction traffic volumes are insignificant when compared to the existing traffic along Richmond Road (AADT > 40,000 vehicles per day). As road traffic noise levels are not expected to increase by 2 dBA, road traffic noise impacts are not predicted for residential receivers along Richmond Road.

#### 4.8.1 Interim phase construction traffic

Townson Road is proposed to be closed for general public vehicles for the interim phase with access provided for CSR, the nursery and residences along Townson Road only. A temporary access road to the north of Townson Road is to be built within the road corridor adjacent to the nursery. The new temporary access road has been assessed against the ‘local road’ criteria and is based on peak hourly traffic movements. The estimated peak hourly volumes for the day and night period are presented in Table 4-13 and assume access for CSR, the nursery and Townson Road residents only.

Peak hourly traffic volumes for the night period have been conservatively assumed to be half the number of movements estimated for the day period.

**Table 4-13 Hourly traffic movements on main access routes**

Road	Vehicle type	Total number of vehicles per hour - day period	Total number of vehicles per hour – night period
Townson Road – pre construction <sup>1</sup>	Light construction vehicles and utilities	187 <sup>1</sup>	39 <sup>1</sup>
	Heavy vehicles and trucks	28 <sup>1</sup>	8 <sup>1</sup>
Townson Road and temporary access road – during construction <sup>2</sup>	Light construction vehicles and utilities	10	5 <sup>2</sup>
	Heavy vehicles and trucks	26	13 <sup>2</sup>

Notes: 1. Existing peak hourly volumes have been based on average traffic volumes counted during the monitoring period

2. Peak night hourly traffic movements during construction have been conservatively assumed to be half the number of movements as during the day.

Predicted noise levels for the closure of Townson Road during the interim phase at the nearest residential receiver to Townson Road are presented in Table 4-14 (based on the RMS Construction Noise Estimator). The  $L_{Aeq(1hour)}$  noise level is predicted to reduce during the day period and the  $L_{Aeq(1hour)}$  noise level is predicted to increase by 0.5 dBA during the night period. As noise levels are not predicted to increase by more than 2 dBA, the noise requirements of the Road Noise Policy are considered to be met. Compliance with the RNP criteria at the nearest residential receiver at 10 metres from Townson Road also ensures compliance at receivers further away.

**Table 4-14 Predicted noise levels for construction traffic**

Road	Distance to receiver, m	Day level, $L_{Aeq,1hour}$ dBA	Night level, $L_{Aeq,1hour}$ dBA
Townson Road – pre construction	10	65.4	59.3
Townson Road – during construction	10	61.0	59.8
<b>Difference in noise level</b>		<b>-4.4</b>	<b>+0.5</b>

#### 4.8.2 Ultimate phase construction traffic

Townson Road is to remain open for the duration of the construction works for the ultimate phase. The additional traffic generated by the construction of the proposal has been conservatively assessed against the existing traffic volumes along Townson Road.

A summary of typical construction traffic movements (bi-directional) along this route is provided in Table 4-15. The existing (bi-directional) traffic volumes along the main access routes are presented in Table 4-16.

**Table 4-15 Proposed construction traffic movements per period**

Roads	Vehicle type	Total number of vehicles movements per day period (bi-directional)	Total number of vehicles movements per night period (bi-directional)
Townson Road	Light construction vehicles and utilities	150 to 180	45 to 55
	Heavy vehicles and trucks	75 to 150	20 to 45

**Table 4-16 Existing traffic on main access routes per period**

Road	Vehicle type	Total number of vehicles per day	Total vehicle movements per night
Townson Road <sup>1</sup>	Light construction vehicles and utilities	2808	350
	Heavy vehicles and trucks	425	71

Predicted noise levels for the closure of Townson Road during the interim phase at the closest receiver are presented in Table 4-18 (based on the RMS Construction Noise Estimator). The  $L_{Aeq(15hour)}$  noise level is predicted to increase by 1.2 dBA during the day period and the  $L_{Aeq(9hour)}$  noise level is predicted to increase by 1.7 dBA during the night period (assuming the speed of construction heavy vehicles are limited to 40 km/hr on Townson Road). As noise levels are not predicted to increase by more than 2 dBA, the noise requirements of the Road Noise Policy are considered to be met. Compliance with the RNP criteria at the nearest residential receiver at 10 metres from Townson Road also ensures compliance at receivers further away.

**Table 4-17 Predicted noise levels for construction traffic**

Road	Distance to receiver, m	Day level, $L_{Aeq,15hour}$ dBA	Night level, $L_{Aeq,9hour}$ dBA
Townson Road – pre construction	10	64.1	59.3
Townson Road – during construction <sup>1</sup>	10	65.3 <sup>1</sup>	61.0 <sup>1</sup>
<b>Difference in noise level</b>		<b>+1.2</b>	<b>+1.7</b>

Note: 1. Predicted noise levels during construction assume construction heavy vehicles are limited to 40 km/hr

## 4.9 Construction vibration impacts

### 4.9.1 Construction vibration methodology

The methodology for the construction vibration assessment included:

- Typical vibration levels for construction plant were sourced from available data
- Minimum working distances for cosmetic damage and human response were sourced from the CNVG
- Receivers within minimum working distances were identified and listed
- Where residences were identified within cosmetic damage buffer distances, mitigation measures were provided to minimise impacts from each construction phase.

### 4.9.2 Construction vibration safe working distances

Safe working buffer distances to comply with the human comfort and cosmetic damage criteria were sourced from the CNVG and are presented in Table 4-18 for the equipment listed in Table 4-4. It should be noted that no heritage structures have been identified within the study area.

**Table 4-18 Vibration safe working buffer distances, m**

Plant item	Rating/Description	Minimum working distance	
		Cosmetic damage (BS 7385)	Human response (OH&E Vibration guideline)
Vibratory Roller	< 300 kN (Typically 7-13 tonnes)	15 m	100 m
	> 300 kN (Typically 13-18 tonnes)	20 m	100 m
Pile Boring	≤ 800 mm	2 m (nominal)	4 m

For the interim construction works, 42 buildings within the study area have been identified to (5 existing and 37 future) fall within the 20 metre safe working distance for vibratory rolling works. For the ultimate phase construction works, 39 buildings within the study area have been identified to (3 existing and 36 future) fall within the 20 metre safe working distance for vibratory rolling works.

These buildings are identified in Appendix H along with the buildings within 100 metres of vibratory rolling works (human response criteria).

No vibration impacts are anticipated as a result of bored piling to construct the Bells Creek Bridge. Mitigation measures to reduce potential vibration impacts to receivers are presented in Section 4.10.

#### 4.10 Construction noise mitigation

There is the potential that construction activities could exceed the construction noise and vibration management levels for the proposal (Table 4-19). Transport have advised that the CNVG may be used as guidance on how to minimise the impacts on the community from noise and vibration.

It is recommended that the following CNVG standard noise mitigation measures be implemented where feasible and reasonable and all potentially impacted residents should be informed of the nature of the works, expected noise levels, duration of works and provided a point of contact.

**Table 4-19 Standard mitigation measures for construction noise and vibration**

Action required	Details
Management measures	
Implement community consultation measures	<p>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.</p> <p>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.</p> <p>Website (If required)</p> <p>Contact telephone number for community</p> <p>Email distribution list (if required)</p> <p>Community drop in session (if required by approval conditions).</p>

Action required	Details
Site inductions	<p>All employees, contractors and subcontractors are to receive an environmental induction. The induction must at least include:</p> <ul style="list-style-type: none"> <li>• all relevant project specific and standard noise and vibration mitigation measures</li> <li>• relevant licence and approval conditions</li> <li>• permissible hours of work</li> <li>• any limitations on high noise generating activities</li> <li>• location of nearest sensitive receivers</li> <li>• construction employee parking areas</li> <li>• designated loading/ unloading areas and procedures</li> <li>• construction traffic routes</li> <li>• site opening/closing times (including deliveries)</li> <li>• environmental incident procedures.</li> </ul>
Behavioural practices	<p>No swearing or unnecessary shouting or loud stereos/radios on site.</p> <p>No dropping of materials from height, throwing of metal items and slamming of doors.</p>
Monitoring	<p>A noise monitoring 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.</p>
Attended vibration measurement	<p>Attended vibration measurements are required at the commencement of vibration generating activities to confirm that vibration levels are within the acceptable range to prevent cosmetic building damage.</p>
Building condition surveys	<p>Undertake building dilapidation surveys on all buildings located within the buffer zone prior to commencement of activities with the potential to cause property damage</p>
<b>Source controls</b>	
Construction hours and scheduling	<p>Where reasonable and feasible, 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.</p> <p>Further to this, It is recommended that the use of mulchers, jack hammers, concrete saws, rock breakers, compaction or other equipment used in very close proximity to the receivers should be limited where feasible and reasonable to the standard construction hours.</p>
Construction respite period	<p>If highly noise affected impacts are predicted high noise and vibration generating activities may only be carried out in continuous blocks, not exceeding three hours each, with a minimum respite period of one hour between each block.</p> <p>If highly noise affected impacts are predicted no more than four consecutive nights of high noise and/or vibration generating work may be undertaken over any seven day period, unless otherwise approved by the relevant authority.</p>
Equipment selection	<p>Use quieter and less vibration emitting construction methods where reasonable and feasible.</p>

Action required	Details
Maximum noise levels	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	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	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	<p>Locate compounds away from sensitive receivers and discourage access from local roads.</p> <p>Plan traffic flow, parking and loading/unloading areas to minimise reversing movements within the site.</p> <p>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.</p> <p>Very noise activities should be scheduled for normal working hours. If the work cannot be undertaken during the day, it should be completed before 11:00 pm.</p> <p>If programmed night work is postponed the work should be re-programmed and the approaches in this guideline apply again</p>
Non-tonal reversing alarms	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.
Reduced equipment power	Use only the necessary size and power
Minimise disturbance arising from delivery of goods to construction sites	<p>Loading and unloading of materials/deliveries is to occur as far as possible from sensitive receivers.</p> <p>Select site access points and roads as far as possible away from sensitive receivers.</p> <p>Dedicated loading/unloading areas to be shielded if close to sensitive receivers.</p> <p>Delivery vehicles to be fitted with straps rather than chains for unloading, wherever possible.</p> <p>Avoid or minimise these out of hours movements where possible.</p>
<b>Path controls</b>	
Shield stationary noise sources such as pumps, compressors, fans etc	Stationary noise sources should be enclosed or shielded whilst ensuring that the occupational health and safety of workers is maintained.
Shield sensitive receivers from noisy activities	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 siting plant.

Due to the highly variable nature of the activities and the potential for work to be undertaken outside the standard construction hours, the Proposal's noise management levels are likely to be exceeded at times. Consultation and cooperation with the neighbours of the site will assist in minimising uncertainty, misconceptions and adverse reactions to noise.

#### **4.10.1 Additional mitigation measures**

The CNVG provides the following information regarding further mitigation measures for certain receivers exceeding noise management levels.

##### **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 5 working days prior to the start of works. The approval conditions for projects may also specify requirements for notification to the community about works that may impact on them.*

##### **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.*

##### **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. Where the resident cannot be met with individually then an alternative form of engagement should be used.*

##### **Phone calls (PC)**

*Phone calls detailing relevant information made to identified/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. Where the resident cannot be telephoned then an alternative form of engagement should be used.*

##### **Respite Offers (RO)**

*Respite Offers should be considered made 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 3 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 6 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 6 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.*

*Where there are few receivers above the NML each of these receivers should be visited to discuss the project to gain support for Duration Respite.*

### **Alternative Accommodation (AA)**

*Alternative accommodation options 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 will 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**

*Verification of noise and vibration levels would be undertaken as part of routine checks of noise levels or following reasonable complaints. This verification should include measurement of the background noise level and construction noise. Note this is not required for projects less than three weeks unless to assist in managing complaints.*

The CNVG outlines the various trigger levels to warrant these mitigation measures, and there are presented below in Table 4-20. All exceedances of the noise management levels for standard and out-of-standard works hours are shown in Appendix D and Appendix E. Appendix D and Appendix E also presents the triggers for the additional noise mitigation measures for airborne noise.

**Table 4-20 Triggers for additional mitigation measures - airborne noise**

Predicted airborne $L_{Aeq(15\text{ min})}$ noise level at receiver			Additional mitigation measures type	Mitigation Levels
Perception	dBA above RBL	dBA above NML		
All hours				
75 dBA or greater	-	-	N, V, PC, RO	HA <sup>1</sup>
Standard Hours: Mon to Fri (7am – 6pm), Sat (8am - 1pm), Sun/Pub Hol (Nil)				
Noticeable	5 to 10	0	-	NML <sup>2</sup>
Clearly audible	10 to 20	< 10	-	NML
Moderately intrusive	20 to 30	10 to 20	N, V	NML + 10
Highly intrusive	> 30	> 20	N, V	NML + 20
OOHW Period 1: Mon to Fri (6pm – 10pm), Sat (7am – 8am, 1pm – 10pm), Sun/Pub Hol (8am – 6pm)				
Noticeable	5 to 10	< 5	-	NML
Clearly audible	10 to 20	5 to 15	N, R1, DR	NML + 5
Moderately intrusive	20 to 30	15 to 25	V, N, R1, DR	NML + 15
Highly intrusive	> 30	> 25	V, IB, N, R1, DR, PC, SN	NML+25
OOHW Period 2: Mon to Fri (10pm – 7am), Sat (10pm – 8am), Sun/Pub Hol (6pm – 7am)				
Noticeable	5 to 10	< 5	N	NML
Clearly audible	10 to 20	5 to 15	V, N, R2, DR	NML+5
Moderately intrusive	20 to 30	15 to 25	V, IB, N, PC, SN, R2, DR	NML+15
Highly intrusive	> 30	> 25	AA, V, IB, N, PC, SN, R2, DR	NML+25

Source: *Construction Noise and Vibration Guideline* (Roads and Maritime, 2016)

Notes: 1. HA – Highly affected

2. NML – Noise Management Level

Table 4-21 presents the number of receivers within each perception category being, “Noticeable”, “Clearly audible”, “Moderately intrusive” and “Highly intrusive” along with the number of residential receivers triggering the highly noise affected criteria.

A map of the additional mitigation recommended for sensitive receivers within the study area is shown in Appendix I and Appendix J for the worst-case standard hours and OOHW2 (Night) works, respectively.

**Table 4-21 Triggers for additional mitigation**

Scenario		CS01	CS02	CS03	CS04	CS05	CS06	CS07	CS08	CS09	CS10	CS11	CS12
Standard construction hours		✓	✓	✓	✓	✓	✓	×	✓	✓	✓	✓	×
OOHW2 (Night)		×	×	×	×	×	×	✓	×	×	×	×	✓
Noticeable	5-10 dBA above RBL	135	367	39	30	102	94	103	146	31	84	92	172
Clearly audible	10 to 20 dBA above RBL	95	164	33	5	33	68	100	107	5	23	69	154
Moderately intrusive	20 to 30 dBA above RBL	37	59	10	0	1	21	23	33	0	1	20	42
Highly intrusive	> 30 dBA above RBL	44	54	4	0	0	42	9	42	0	0	41	16
Highly noise affected	>75 dBA (residences)	41	50	3	0	0	37	3	41	0	0	38	10

#### **4.10.2 Construction road traffic noise mitigation**

Management of construction related traffic or traffic reroutes should as a minimum include the following controls:

- Scheduling and routing of vehicle movements
- Driver behaviour and avoidance of the use of engine compression brakes
- Ensuring vehicles are adequately silenced before allowing them to access the site
- Speed of construction related heavy vehicles should be limited to 40 km/hr Townson Road during the construction of the ultimate phase.

#### **4.10.3 Compliance noise and vibration monitoring**

Attended compliance noise or vibration monitoring should be undertaken to confirm the predicted noise or vibration levels upon receipt of a complaint. The ICNG states that complaint monitoring measurements should be taken at the complainant's location and the monitoring should cover the time of day when the impacts were reported to occur.

In the case that exceedances of the relevant annoyance criteria levels listed in this report are detected in relation to the complaint, the situation should be reviewed in order to identify means to minimise the impacts to residences.

In all cases, noise or vibration monitoring should be undertaken by a suitably qualified professional in accordance with ICNG guidelines.

#### **4.10.4 Building condition inspections and vibration trials**

Building condition inspection reports should classify building structure and susceptibility to damage in accordance with the BS 7385 classifications. The resulting building classifications are to be used for determination of the applicable BS 7385 vibration criteria curves. Condition inspections are to identify high-risk buildings where additional vibration restrictions and more stringent criteria may apply.

Where construction activities generating vibration are to be undertaken at a distance of less than 20 metres from a building, initial vibration monitoring trials should be undertaken at the commencement of breaking, rolling and compacting activities. The initial vibration trials should include:

- Determine the frequency dependent BS 7385 vibration criteria from the vibration generating equipment dominant frequencies.
- Confirming safe working buffer distances for that equipment in that work area based on the frequency dependent BS 7385 vibration criteria.
- When vibration generating equipment is operating within the above confirmed buffer distances, additional vibration monitoring equipment should be deployed at the building foundation with a trigger level based on the frequency dependent BS 7385 vibration criteria. If the vibration level on the equipment is reached a visual alarm should be triggered to alert the operators that the vibration criteria have been exceeded.

#### **4.10.5 Human comfort impacts (vibration)**

The construction works are considered short term by the *Assessing Vibration: a Technical Guideline* (DEC, 2006), therefore where alternative non-vibration inducing construction methods are impractical, the following principles from the guideline can be utilised to assist with minimisation of adverse reactions from the community:

- Confining vibration-generating operations to the least vibration-sensitive part of the shift – which could be when the background disturbance is highest
- Determining an upper level for vibration impact also considering what is achievable using feasible and reasonable mitigation
- Consulting with the community regarding the proposed events.

#### **4.10.6 Community relations**

Consultation and cooperation between the site and surrounding residents will assist in minimising uncertainty, misconceptions and adverse reactions to noise and vibration.

The ENMM *Practice Note (vii)* provides community consultation procedures for road works outside normal working hours. This includes the following:

- Contact the local community potentially affected by the proposed works (outside of recommended construction hours) and inform them by letter of the proposed work, location, type of work days and dates of work and hours involved. The contact should be made five days prior to commencement of works.
- A suitable advertisement should be placed in local papers including a reference to night-time noise impacts.
- Use variable message signs on the roadside informing of upcoming works.
- A community liaison phone number and permanent site contact should be provided so that complaints can be received and addressed in a timely manner.

Upon receipt of a noise complaint monitoring should be undertaken and reported as soon as possible. If exceedances are detected, the situation should be reviewed in order to identify means to attempt to reduce the impact to acceptable levels

# 5. Operational noise assessment

## 5.1 Noise Criteria Guideline (NCG)

The Noise Criteria Guideline (NCG) was developed by Roads and Maritime to set out an approach to noise criteria that meets the intention of the Road Noise Policy (DECCW, 2011) and to provide consistency across Roads and Maritime projects. The NCG approach is to assess noise levels at each façade of sensitive receivers (as relevant) within the study area. The criterion at a sensitive receiver depends on the following factors:

- If noise levels at the sensitive receiver will be influenced by a new road or a redeveloped road
- If the sensitive receiver is in a transition zone
- Whether sensitive receivers are likely to receive a significant relative increase in noise due to the project.

### 5.1.1 Study area

The assessment study area has been selected in accordance with the guidance provided in the *Road Noise Policy* (DECCW, 2011) and the *Roads and Maritime Noise Criteria Guideline* (Roads and Maritime, 2015).

All structures located within 600 metres from the centreline of the outermost lane of traffic on each side of project road (Townson Road - Richmond Road to the proposal boundary) has been included in this assessment.

### 5.1.2 Assessment timeframe

Road traffic noise levels to assess potential road traffic noise impacts are assessed at the following points in time provided in Table 5-1. For each assessed year, noise levels are determine for the following scenarios:

- ‘No build’ option – road traffic noise levels that would have occurred if the project had not proceeded
- ‘Build’ option – road traffic noise levels that would occur if the project proceeds.

**Table 5-1 Assessment timeframe for the proposal**

Phase	Timeframe	Description	Adopted year for assessment
Ultimate	Opening year	The year of the project road opening (Stage 2 functional <sup>1</sup> )	2028
	Design year	The year of the project road opening (Stage 2 functional <sup>1</sup> )	2038
Interim	Opening year	The year of the project road opening (Stage 2 not functional <sup>2</sup> )	2023
	Design year	Five years after the project road opening (Stage 2 not functional <sup>2</sup> )	2028 <sup>3</sup>

Notes: 1. Assumes Stage 2 is functional and traffic continues to Burdekin Road

2. Assumes Stage 2 is not functional and Townson Road traffic continues to Durham Road

3. Five years after opening has been chosen as the interim design will be superseded by the ultimate design in 2028. As such, 2028 is the latest year the interim design will be functional.

Assessment during the opening year is undertaken to determine the potential for noise issues arising from opening of the road project. These issues can assist in determining the potential community reaction to the changes in noise level. Assessment during the design year is undertaken to determine the potential for long-term noise issues once traffic on the surrounding road network has stabilised.

For the ultimate phase, it is assumed that Stage 2 is built as a worst-case as traffic volumes will be higher due to the connection of Townson Road to Burdekin Road. For the interim phase, it is assumed that Stage 2 is not built and traffic along Townson Road continues to Durham Road and Carnarvon Road to connect to South Street.

### 5.1.3 Assessment criteria for residential land uses

Noise criteria are assigned to sensitive receivers using the *Noise Criteria Guideline* (Roads and Maritime, 2015).

The following factors contribute to the road traffic noise assessment criteria that is assigned to a residential land use:

- Type of development – new or redeveloped. A description of the development types is provided in the glossary
- Functional class/road category of the road.

Following consideration of the factors above, the assessment criteria can be adjusted depending on whether the residence is located within a transition zone or located in an area where the relative increase criteria applies.

Road traffic noise assessment criteria for residential land uses are provided in Table 5-2.

**Table 5-2 Residential road traffic noise assessment criteria**

Road category	Type of project/land use	Assessment criteria, dBA	
		Day 7 am to 10 pm	Night 10 pm to 7 am
Freeway/ arterial/ sub- arterial roads	Existing residences affected by noise from <b>new</b> freeway/arterial/sub-arterial road corridors	L <sub>Aeq</sub> (15 hour) 55 (external)	L <sub>Aeq</sub> (9 hour) 50 (external)
	Existing residences affected by noise from <b>redevelopment</b> of existing freeway/arterial/sub-arterial roads	L <sub>Aeq</sub> (15 hour) 60 (external)	L <sub>Aeq</sub> (9 hour) 55 (external)
	Existing residences affected by <b>additional traffic</b> on existing freeways/arterial/sub-arterial roads generated by land use developments		
	Existing residences affected by both <b>new</b> roads and <b>redevelopment</b> of existing freeway/arterial/sub-arterial roads in a <b>Transition Zone</b>	Between L <sub>Aeq</sub> (15 hour) 55- 60 (external)	Between L <sub>Aeq</sub> (9 hour) 50- 55 (external)
	Existing residences affected by increases in traffic noise of 12 dBA or more from <b>new</b> freeway/arterial/sub-arterial roads	Between L <sub>Aeq</sub> (15 hour) 42- 55 (external)	Between L <sub>Aeq</sub> (9 hour) 42- 50 (external)
	Existing residences affected by increases in traffic noise of 12 dBA or more from <b>existing</b> freeway/arterial/sub-arterial roads	Between L <sub>Aeq</sub> (15 hour) 42- 60 (external)	Between L <sub>Aeq</sub> (9 hour) 42- 55 (external)

NCG noise criteria differ for a road depending on that road’s functional class (local, collector, freeway, arterial or sub-arterial) or whether it is ‘new’ or ‘redeveloped’. The NCG defines a road project as a ‘redevelopment’ where it will result in an increase in the traffic carrying capacity and/or increase the number of heavy vehicles by 50 per cent or more on the subject road.

The new Townson Road alignment is considered to be a ‘new’ road as the road changes functional class from collector to sub-arterial. The alignment of the existing side roads to Townson Road, being Richmond Road, Victory Road and Jersey/Durham Road, are not considered redeveloped as the alignment of the roads do not change and the road’s functional class does not change either.

#### 5.1.4 Assessment criteria for non-residential land uses

Road traffic noise assessment criteria for the Stonecutters Ridge golf course is provided in Table 5-3.

**Table 5-3 Non-residential road traffic noise assessment criteria**

Existing sensitive land use	Assessment criteria, dBA	
	Day (7 am to 10 pm)	Night (7 am to 10 pm)
Open space (passive use)	L <sub>Aeq(15 hour)</sub> 55 (external)	-

#### 5.1.5 Relative increase criteria

The relative increase criterion assesses any increase in the total traffic noise level at a sensitive receiver due to the project. The relative increase criteria is exceeded if the ‘build option’ noise levels increase by more than 12 dBA above the ‘no-build option’ noise levels.

#### 5.1.6 Transition zones

A summary of the road classifications in the study area is provided in Table 5-4. Classification changes have been qualitatively assessed based on expected traffic flows as a result of the proposal. The road types and classifications have used to determine the transition zones within the study area.

**Table 5-4 Road types and classifications (ultimate phase)**

Road name	Road classification	Type of road	Change in road classification?
Townson Road (Richmond Road to Victory Road)	Sub-arterial	New	Yes
Townson Road (Victory Road to proposal boundary)	Sub-arterial	New	Yes
Richmond Road	Arterial	Existing	No
Victory Road (South)	Collector	Existing	No
Victory Road (North)	Collector	New	-
New road (North) <sup>1</sup>	Collector	New	-
New road (South)	Collector	New	-
Durham Road	Collector	Existing	No

Note: 1. New road (North) is not proposed as part of the interim phase



Transition zones have been identified at the following road junctions:

- The road junction at the Richmond Road (existing road) and Townson Road (new road) intersection
- The road junction at the Victory Road (existing road) and Townson Road (new road) intersection
- The road junction at the Durham Road (existing road) to Townson Road (new road) intersection.

Noise contribution differences have been calculated and the noise criteria at residential receivers within the transition zones and all other receivers are summarised in Appendix L.

## **5.2 Noise Mitigation Guideline (NMG)**

Transport for NSW road traffic projects use the *Noise Mitigation Guideline* (Roads and Maritime, 2015) to describe the principles to be applied when reviewing feasible and reasonable noise mitigation for road traffic noise. The NMG recognises that the criteria recommended by the NCG is not always practicable and that it is not always feasible and reasonable to expect that the criteria are achieved.

The NMG provides principles and recommendations that should be considered when assessing whether noise mitigation is feasible and reasonable. These include:

- Noise mitigation should be designed to reduce noise levels to the criteria at qualifying receivers
- Following corridor and road design, residual exceedances of the noise criteria may be addressed at qualifying receivers using, in order of preference (RNP section 3.4.1), quieter road surfaces, barriers and at-property treatments
- Noise barrier evaluation processes must:
  - Give preference to reducing outdoor noise levels and the number of at-property treatments, and
  - Provide efficient barrier heights and extents without disregarding lengths of effective noise barrier in front of eligible groups of receivers.
- Noise mitigation shall be evaluated and installed where feasible and reasonable.

An overview of the noise mitigation assessment process that is applied following corridor planning and road design is provided in the following section. This section would apply to all receivers that are predicted to have residual exceedances above the NCG criteria to determine whether they qualify for noise mitigation.

### **5.2.1 Assessment process**

The NMG provides three triggers where a receiver may qualify for consideration of noise mitigation (beyond the adoption of source control measures implemented through road design and traffic management measures).

The NMG provides three triggers where a receiver may qualify for consideration of noise mitigation (beyond the adoption of road design and traffic management measures). These are:

- The predicted Build noise level exceeds the NCG 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 dBA

- The predicted Build noise level is 5 dBA or more above the criteria (exceeds the cumulative limit) and the receiver is significantly influenced by project road noise, regardless of the incremental impact of the project
- Where the cumulative limit does not apply (ie most of the noise causing the cumulative limit to be exceeded comes from a road that is not assessed as part of the project), if the noise level contribution from the road project is acute (daytime  $L_{Aeq(15 \text{ hour})}$  65 dB or higher, or night-time  $L_{Aeq(9 \text{ hour})}$  60 dB or higher) then it qualifies for consideration of noise mitigation even if noise levels are dominated by another road.

## 5.2.2 Noise mitigation measures

The NMG provides a staged approach to the determination of noise mitigation noting that preference is given to reducing noise during corridor planning and road design rather than through use of specific noise mitigation measures. The staged approach is based on the *Road Noise Policy* (DECCW, 2011) which provides the following options in order of preference for application:

1. **Source controls:** quieter road surfaces
2. **Path control:** noise mounds
3. **Path control:** noise barriers
4. **Receiver controls:** at-property treatments.

Section 7 of the NMG provides further details on each mitigation measure. At-property treatments would only be investigated where source and path controls are not considered equitable. The NMG considers source and path controls reasonable where there are four or more closely spaced receivers that trigger consideration of noise mitigation and would receive a benefit from implementation of these mitigation measures.

Where the possibility of a noise mound or noise barrier arises, further assessment would be required in accordance with section 8 of the NMG. This section details the barrier assessment process and specifies the number of residences that should receive an adequate noise benefit for a path control measure to be considered reasonable.

## 5.3 Recent residential developments

Transport for NSW advised Blacktown City Council of the Townson Road / Burdekin Road project in 2017 so that any land developers with a development application could be notified of the project. Noise mitigation is the responsibility of the developer where the approval for the individual dwelling has been approved subsequent to the approval of the proposal as the RNP noise goals apply only to existing receivers. As such, any residences that are determined and approved prior to the approval of the proposal would qualify for noise mitigation.

For the purpose of this assessment, noise predictions have been made to the future Luxeland Stage 1 and Stage 2 developments (See Appendix K for the subdivision plans) and noise modelling has been undertaken at these future dwellings based on the subdivision plans provided to GHD. It has been assumed that the approval of the proposal would occur prior to the approval for the individual lots within the Luxeland subdivisions and the responsibility of noise mitigation would be on the developers. During detailed design, there should be a review of any approved development applications within the Luxeland subdivisions. Any development applications for residential dwellings within the Luxeland subdivisions that were approved prior to the Townson Road project should be included in the noise modelling during the detailed design phase of the project.

### Luxeland Stage 1 - DA16/04442 (283 lots)

The subdivision of Lot 567 DP1200170, Alderton Drive, Colobee into 283 lots. DA16/04442 (16 June 2017) does not include any references pertaining to the attenuation of road traffic noise to the residential lots within the development. Building footprints for Stage 1 were not available at the time of this assessment and as such, assumptions have been made for the location of the buildings within the lot. It is assumed that all buildings within this development are two storeys as a worst-case scenario.

### Luxeland Stage 2- DA17/01939 (216 lots)

DA17/01939 Consent Condition 11.8.1 Fencing along Townson Road states that a minimum 1.8 metre high acoustic fencing along Townson Road frontage shall be provided and the fence is to achieve the noise criteria requirements of Clause 102 of the State Environmental Planning Policy (Infrastructure) 2007. As such, a 1.8 metre high acoustic barrier has been included within the noise model.

Additionally, Consent Condition 11.8.2 states that an acoustic report prepared by a qualified acoustic consultant shall be submitted to Council confirming that the above noise criteria requirements of the SEPP (Infrastructure) 2007 are achieved. Any development applications for residential dwellings approved prior to the Townson Road project should be included in the noise modelling during the detailed design phase of the project.

Building footprints for Stage 2 have been included based on the digitisation of the development application plans supplied to GHD. It is assumed that all buildings within this development are two storeys as a worst-case.

## 5.4 Sleep disturbance impacts - traffic noise

The RNP provides a literature review for the assessment of sleep arousal due to traffic noise however does not set a sleep disturbance assessment criterion.

Sleep disturbance impacts are likely to be dependent on the following:

- Maximum noise level of an event
- Number of occurrences
- Duration of the event
- Level above background or ambient noise levels.

For continuous rather than intermittent traffic flow, the *Environmental Noise Management Manual* (RTA, 2001) recommends  $L_{Amax}$  noise pass-by events should not exceed  $L_{Aeq(1hr)}$  noise levels by more than 15 dBA. The *Environmental Noise Management Manual* (RTA, 2001) advises that maximum noise levels can be used as a tool to prioritise and rank mitigation strategies, but should not be applied as a decisive criterion in itself.

At locations where road traffic is continuous rather than intermittent, the  $L_{Aeq(9hour)}$  criteria for operational noise assessment should sufficiently account for sleep disturbance impacts. However, where the emergence of  $L_{Amax}$  over the ambient  $L_{Aeq(1hr)}$  is equal to or greater than 15 dBA, the  $L_{Aeq(9hour)}$  criteria may not sufficiently account for sleep disturbance impacts.

## 5.5 Methodology

The methodology for the road traffic noise assessment included the following:

1. The noise study area was established in accordance with the NCG
2. Road classification changes were assessed for existing roads

3. A review of road traffic changes has been conducted for existing roads next to the project that are not considered redeveloped. Traffic on these roads is may be subject to an increase in traffic volume as a result of the project. As such, the existing side roads Richmond Road, Victory Road and Durham Road have been included in the noise model and the potential increase in noise levels for residences along these roads have been assessed in accordance with the NCG.
4. Noise predictions were carried out for the following cases:
  - No build for opening years 2023, 2028 and 2038 assume traffic on Townson Road connects to Durham Road to connect to South Street. As a worst-case, it is assumed that there is no growth on Townson Road. As such, the no-build volumes on Townson Road for all years are consistent.
  - Interim phase cases assume Townson Road connects to Durham Road to connect to South Street via a temporary tie-in. Meadow Road is no longer used.
  - Uitimate phase cases assume Townson Road connects to Burdekin Road via Townson Road Stage 2. Meadow Road is no longer used.
5. These models were used to assess compliance with the noise criteria and assess the potential increase in road traffic noise at identified sensitive receivers.

### 5.5.1 Existing traffic volumes

Traffic counts were conducted in the study areas concurrently with the long-term noise monitoring in October 2019 to allow validation of the computer noise model. Additional traffic data for Richmond Road was provided by the traffic team based on previous traffic intersection counts for Richmond Road. The results of the traffic survey and additional traffic data are summarised in Appendix G,.

### 5.5.1 Traffic forecasts

Traffic volumes used in the operational noise assessment are based on detailed traffic modelling by the GHD traffic team. Traffic data for Richmond Road, Townson Road, Victory Road (north and south), Meadow Road, new road (north and south) and Durham Road have been provided by the GHD traffic team for future years 2023, 2028 and 2038. This data, summarised in Appendix G, was utilised for the purpose of noise modelling predictions.

### 5.5.2 Modelling inputs and assumptions

The noise model inputs and assumptions for all operational scenarios are presented in Table 5-5.

**Table 5-5 Operational noise model inputs and assumptions**

Inputs/assumptions	Data incorporated into noise model
Prediction algorithm	United Kingdom Department of Transport, Calculation of Road Traffic Noise, 1988 (CoRTN)
Traffic volumes	Build and no-build traffic data provided by GHD traffic team.
Heavy vehicle %	Heavy vehicle percentage based on traffic information provided by GHD traffic team
Model traffic speeds	Speeds for existing and design roads assumed to be as sign-posted (refer to Appendix G).
Low traffic flow	Not implemented
Road gradient	Taken into account based on the road design and terrain contours for existing roads

Inputs/assumptions	Data incorporated into noise model
Buildings	All buildings modelled using the following heights: Single storey: 3.5 m Double storey: 6.5 m
Façade receiver positions	Ground floor – 1.5 m receiver height, 1 m from building façade. First floor – 4.5 m receiver height, 1 m from building façade
Road surface adjustments	0.0 dBA for dense graded asphalt (DGA) or equivalent
Modelling allowance	No modelling allowance factor added to the predicted noise levels
Façade correction	+2.5 dBA to account for noise reflected from the façade
CoRTN conversion factors	CoRTN conversion factor of -3 dB applied to convert L <sub>A10</sub> to L <sub>Aeq</sub> .
Source location	Noise sources located in the centre of each lane of traffic
Source height	Cars and truck tyres – 0.5 m Truck engines – 1.5 m Truck exhausts – 3.6 m
Source height corrections	Truck engines: -0.6 dB Truck exhausts: -8.6 dB
Ground absorption	A ground absorption factor of 75% over the study area. G= 0.75
Noise contours- search radius	3000 m
Noise contours- grid spacing	20 m grid spacing with height above ground of 1.5 m
Fences	1.8 m fence for Stage 2- DA17/01939 (216 lots) buildings as per SEPP requirements

### 5.5.3 Noise modelling validation

The noise modelling process was validated against the road traffic noise monitoring data (weekday only) and simultaneous traffic counts (weekday only).

The model is deemed to be valid if the average difference between the measured and calculated values of the descriptors is within +/- 2 dBA.

A comparison of the modelling and monitoring results is shown in Table 5-6. The predicted (modelled) results and measured results have an acceptable variance of within 2 dBA at all relevant road traffic logger locations except at M02 during the day time period. The difference is slightly higher (2.5 dB) at M02 during the day time period. This is attributed to the +2.5 dB façade correction applied to the modelled levels at this location. The façade is likely to be less reflective in reality (and therefore, contribute less than the added +2.5 dB).

Overall, the model is considered to be conservative and suitable for the prediction of road traffic noise levels in the area.

**Table 5-6 Noise logger validation**

Logger	Free-field or Façade	Measured, dBA		Modelled, dBA		Difference dBA		Notes
		L <sub>Aeq</sub> (15hr) (Day)	L <sub>Aeq</sub> (9hr) (Night)	L <sub>Aeq</sub> (15hr) (Day)	L <sub>Aeq</sub> (9hr) (Night)	L <sub>Aeq</sub> (15hr) (Day)	L <sub>Aeq</sub> (9hr) (Night)	
M01	Free-field	52.5	50.0	54.5	49.6	2.0	-0.4	Within 2 dBA
M02	Facade	59.1	53.5	61.6 <sup>1</sup>	55.4 <sup>1</sup>	2.5	1.9	Within 2 dBA (night)
M03	Free-field	50.2	45.4	51.3	45.2	1.1	-0.2	Within 2 dBA
M04	Free-field	63.0	56.8	64.7	55.8	1.7	-1.0	Within 2 dBA
<b>Mean difference</b>		-	-	-	-	1.8	0.1	Within 2 dBA

Notes: 1 Modelled results include a +2.5 dB façade correction at location M2.

2: Measured LAeq(15hr) and LAeq(9hr) levels are weekday noise levels (Monday to Friday)

### 5.5.4 Predicted noise levels (ultimate and interim phase)

The day and night-time predicted sensitive receiver noise levels for the ‘no-build option’ and ‘build option’ for the opening and design years are detailed in Appendix L (future and interim phases). All road traffic noise levels include a +2.5 dBA façade correction to account for reflected noise from the sensitive receiver façade and show the highest overall road traffic noise level across the façade for each building.

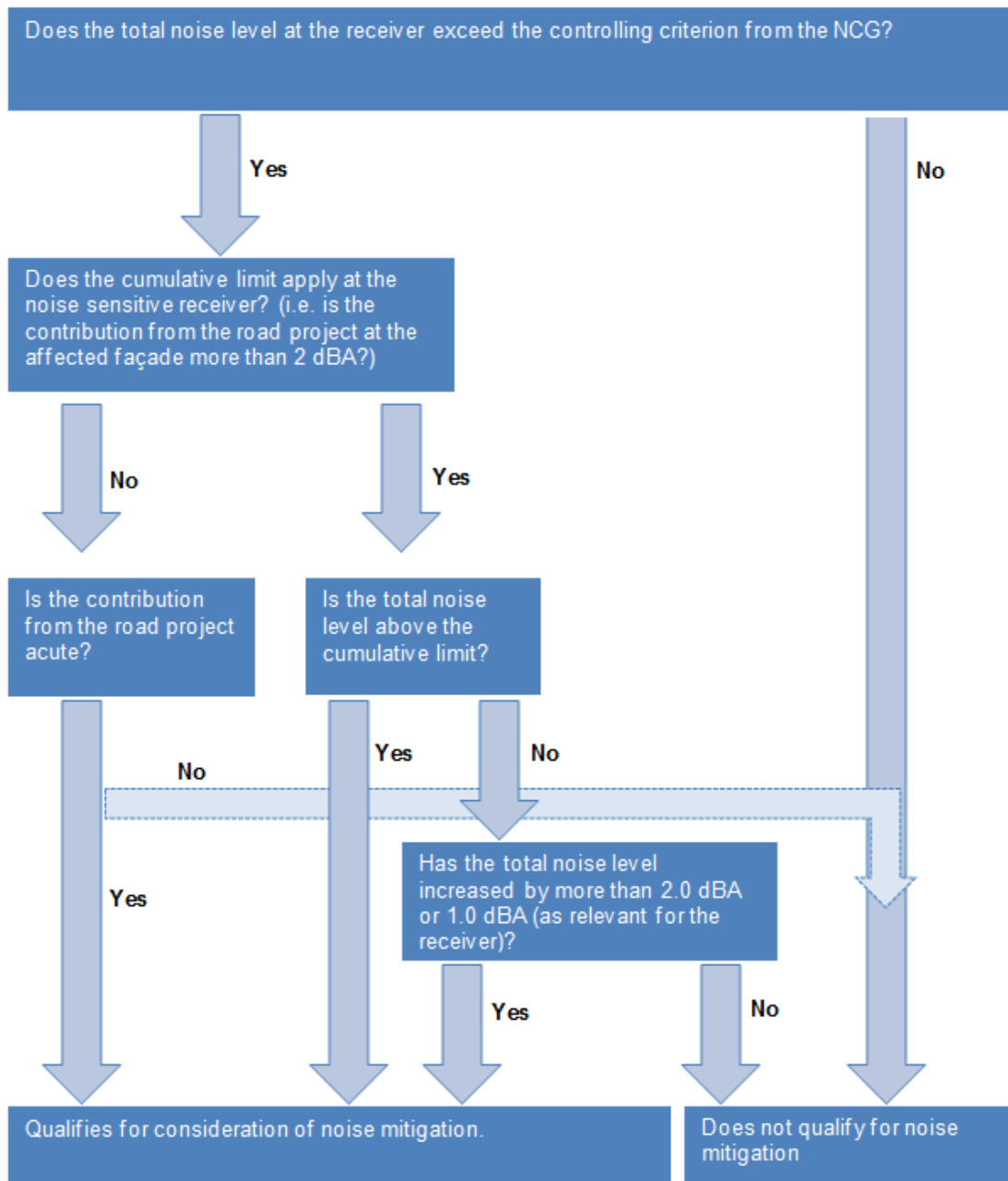
Day and night-time façade noise maps (opening year and design year) for the ultimate design ‘build’ option are shown in Appendix M. Day and night-time façade noise maps (opening year and design year) for the interim design ‘build’ option are shown in Appendix N.

## 5.6 Guidance on the evaluation of noise mitigation measures

The Noise Mitigation Guideline (NMG) provides guidance in managing and controlling road traffic generated noise and describes the principles to be applied when reviewing noise mitigation. The NMG recognises that the criteria recommended by the NCG are not always practicable and that it is not always feasible or reasonable to expect that they should be achieved.

The NMG notes that the most effective way of minimising noise from vehicles and traffic is to control vehicle noise at the source. Where source measures are not practical, or do not provide sufficient noise reduction, additional methods are required to reduce levels to within acceptable margins. Such additional methods may include the use of noise barriers and/or consideration for architectural treatment of residences.

The NMG mitigation guidance is presented as a flowchart in Figure 5.1 .



**Figure 5.1 Noise mitigation flowchart (derived from the NMG)**

### 5.6.1 Noise mitigation (interim and ultimate phase)

The operational noise assessment identified that 37 sensitive receivers qualify for mitigation consideration under the NMG for the ultimate phase and 13 sensitive receivers qualify for mitigation for the interim phase. These receivers are summarised in Table 5-7 and can be seen in Figure 5.2. The architectural treatment packages are discussed in Section 5.7.5.

**Table 5-7 Receivers qualifying for mitigation consideration**

Receiver ID	Residential address	Receiver Type	Max. exc. above criteria, dB	NCA	Acquired – the proposal	Treatment Package
Ultimate phase						
R0034	35 TOWNSON ROAD MARSDEN PARK	Residential	6	NCA01	-	Package 2
R0035	51 TOWNSON ROAD MARSDEN PARK	Residential	5	NCA01	-	Package 1
R0036	9 TOWNSON ROAD MARSDEN PARK	Residential	12	NCA01	-	Package 4
R0037	55 TOWNSON ROAD MARSDEN PARK	Residential	5	NCA01	-	Package 1
R0038	63 TOWNSON ROAD MARSDEN PARK	Residential	12	NCA01	-	Package 4
R0812	41 SUNNINGDALE DRIVE COLEBEE	Residential	8	NCA03	-	Package 2
R0818	68 SUNNINGDALE DRIVE COLEBEE	Residential	3	NCA03	-	Package 1
R0828	60 SUNNINGDALE DRIVE COLEBEE	Residential	1	NCA03	-	Package 1
R0835	52 SUNNINGDALE DRIVE COLEBEE	Residential	1	NCA03	-	Package 1
R0857	66 SUNNINGDALE DRIVE COLEBEE	Residential	5	NCA03	-	Package 1
R0859	20 VALDERRAMA STREET COLEBEE	Residential	2	NCA03	-	Package 1
R0861	21 VALDERRAMA STREET COLEBEE	Residential	1	NCA03	-	Package 1
R0863	22 VALDERRAMA STREET COLEBEE	Residential	9	NCA03	-	Package 3
R0870	20 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0871	14 VICTORY ROAD COLEBEE	Residential	5	NCA03	-	Package 1
R0872	40 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0873	44 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0874	42 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0875	38 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0876	36 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0877	24 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0878	34 VICTORY ROAD COLEBEE	Residential	6	NCA03	-	Package 2
R0879	12 VICTORY ROAD COLEBEE	Residential	6	NCA03	-	Package 2
R0880	32 VICTORY ROAD COLEBEE	Residential	8	NCA03	-	Package 2
R0881	48 VICTORY ROAD COLEBEE	Residential	5	NCA03	-	Package 1



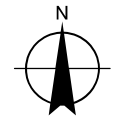
Receiver ID	Residential address	Receiver Type	Max. exc. above criteria, dB	NCA	Acquired – the proposal	Treatment Package
Ultimate phase						
R0882	46 VICTORY ROAD COLEBEE	Residential	5	NCA03	-	Package 1
R0883	50 VICTORY ROAD COLEBEE	Residential	5	NCA03	-	Package 1
R0884	16 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0885	26 VICTORY ROAD COLEBEE	Residential	1	NCA03	-	Package 1
R0886	22 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0887	30 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0888	18 VICTORY ROAD COLEBEE	Residential	7	NCA03	-	Package 2
R0911	61 DURHAM ROAD SCHOFIELDS	Residential	8	NCA04	-	Package 2
R0923	61 DURHAM ROAD SCHOFIELDS	Residential	3	NCA04	-	Package 1
R0926	46 DURHAM ROAD SCHOFIELDS	Residential	17	NCA04	Acquired	Package 5
R0929	42 JERSEY ROAD SCHOFIELDS	Residential	21	NCA04	Acquired	Package 5
R0954	5 MEADOW ROAD SCHOFIELDS	Residential	4	NCA04	-	Package 1
Interim phase						
R0034	35 TOWNSON ROAD MARSDEN PARK	Residential	6	NCA01	-	Package 2
R0035	51 TOWNSON ROAD MARSDEN PARK	Residential	5	NCA01	-	Package 1
R0036	9 TOWNSON ROAD MARSDEN PARK	Residential	10	NCA01	-	Package 3
R0037	55 TOWNSON ROAD MARSDEN PARK	Residential	4	NCA01	-	Package 1
R0038	63 TOWNSON ROAD MARSDEN PARK	Residential	12	NCA01	-	Package 4
R0818	68 SUNNINGDALE DRIVE COLEBEE	Residential	4	NCA03	-	Package 1
R0857	66 SUNNINGDALE DRIVE COLEBEE	Residential	3	NCA03	-	Package 1
R0911	61 DURHAM ROAD SCHOFIELDS	Residential	4	NCA04	-	Package 1
R0914	55 DURHAM ROAD SCHOFIELDS	Residential	11	NCA04	-	Package 3
R0923	61 DURHAM ROAD SCHOFIELDS	Residential	13	NCA04	-	Package 4
R0926	46 DURHAM ROAD SCHOFIELDS	Residential	21	NCA04	Acquired	Package 5
R0929	42 JERSEY ROAD SCHOFIELDS	Residential	9	NCA04	-	Package 3
R0954	5 MEADOW ROAD SCHOFIELDS	Residential	8	NCA04	-	Package 2



**LEGEND**

- The proposal *Subject to detailed design*
- Construction footprint
- Cadastre
- Qualifies - Final design only
- Qualifies - Final and interim design
- Qualifies - Interim Design only
- Does not qualify for mitigation

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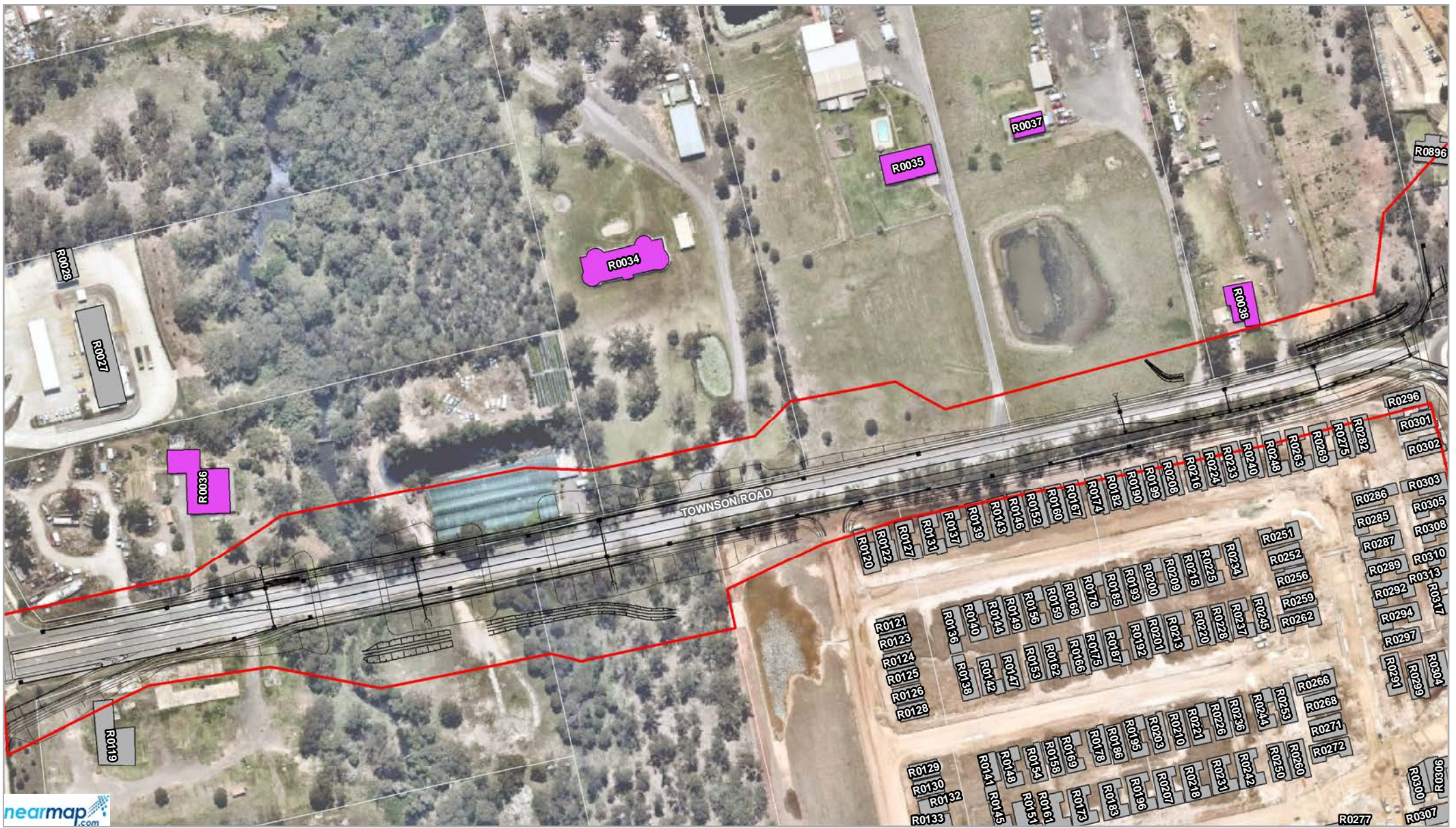


Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 Receivers qualifying for  
 mitigation consideration  
 - Durham Road/Jersey Road

Project No. 12511195.0  
 Revision No. -  
 Date 11 Nov 2020

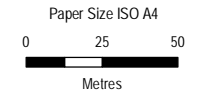
**Figure 5-2**

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 Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 (). Created by: elbertson  
 © 2020. Whilst every care has been taken to prepare this map, GHD (and Sixmaps 2020, NSW Department of Lands, OEH, NSW Department of Planning and Environment, Nearmap) make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.

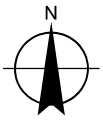


**LEGEND**

- The proposal *Subject to detailed design*
- Construction footprint
- Cadastre
- Qualifies - Final design only
- Qualifies - Final and interim design
- Qualifies - Interim Design only
- Does not qualify for mitigation



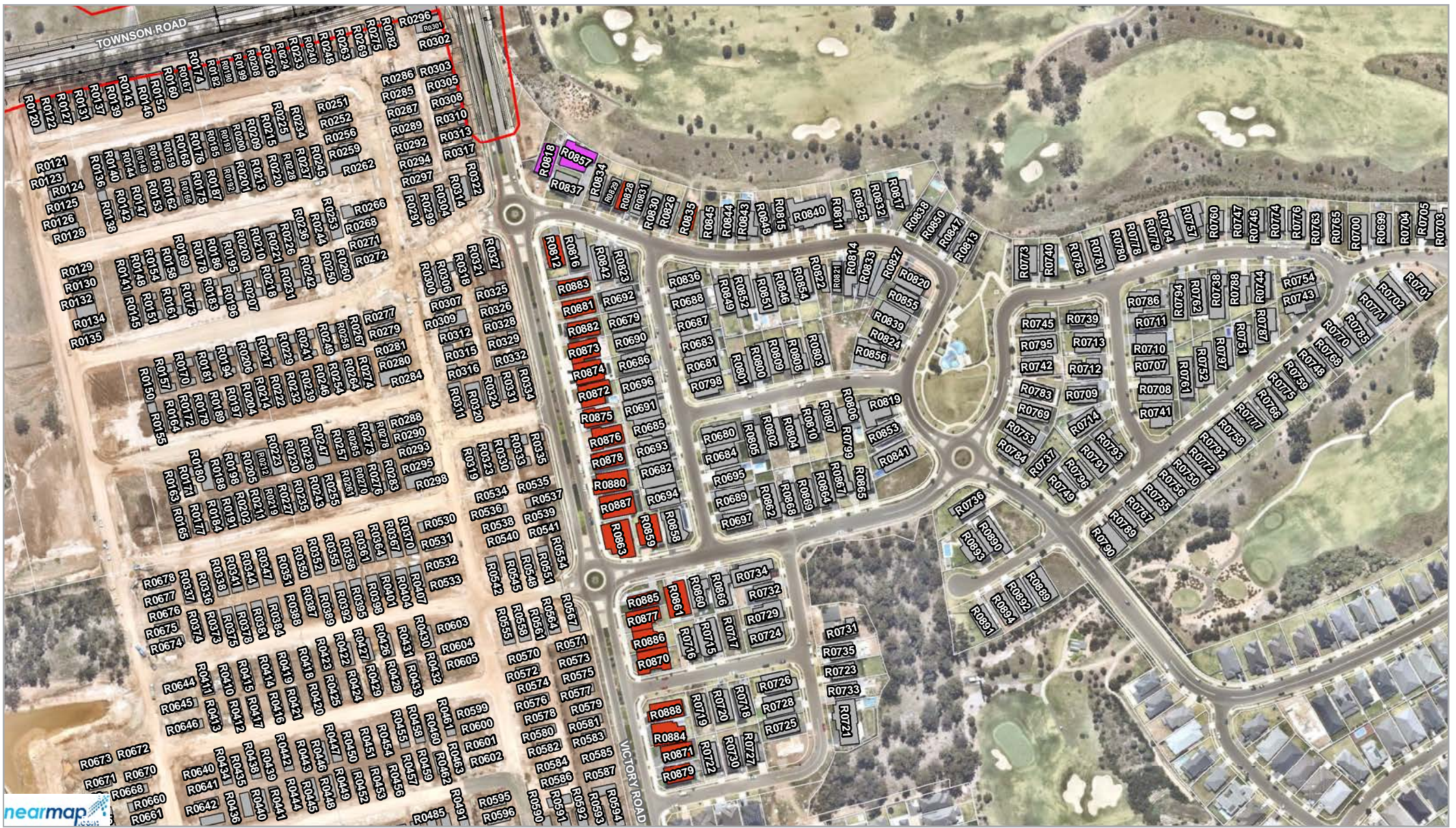
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Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 Receivers qualifying for  
 mitigation consideration  
 - Townson Road

Project No. 12511195.0  
 Revision No. -  
 Date 11 Nov 2020

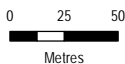
**Figure 5-2**



**LEGEND**

- The proposal *Subject to detailed design*
- Construction footprint
- Cadastre
- Qualifies - Final design only
- Qualifies - Final and interim design
- Qualifies - Interim Design only
- Does not qualify for mitigation

Paper Size ISO A4



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



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Noise and Vibration Impact Assessment  
Receivers qualifying for  
mitigation consideration  
- Victory Road

Project No. 12511195.0  
Revision No. -  
Date 11 Nov 2020

**Figure 5-2**

## **5.6.2 Luxeland development Stage 1**

No exceedances of the criteria were identified for the future buildings with the Luxeland Stage 1 development. As such, no mitigation measures have been recommended for the receivers within this development.

## **5.6.3 Luxeland development Stage 2**

Exceedances of the criteria for the future buildings within Luxeland Stage 2 development have been identified within Appendix L. As discussed in Section 5.3, the developer is responsible for ensuring the requirements of the SEPP (Infrastructure) are met as part of their Development Application Consent Conditions. As such, no mitigation measures have been recommended for the receivers within this development.

## **5.7 Operational noise mitigation**

### **5.7.1 Noise mitigation principles**

The key NMG principles to consider at this stage of the project design are:

- Noise mitigation should be designed to reduce noise levels to the criteria for qualifying sensitive receivers
- Following concept design, residual exceedances of noise criteria may be addressed at qualifying sensitive receivers using, in order of preference (RNP section 3.4.1), quieter road surfaces, noise barriers and at-property treatments
- Noise barrier evaluation processes must:
  - Give preference to reducing outdoor noise levels and the number of at-property treatments
  - Provide efficient barrier heights and extents without disregarding lengths of effective noise barrier in front of eligible groups of sensitive receivers.
- Noise mitigation shall be evaluated and installed where feasible and reasonable.

### **5.7.2 Noise mitigation options**

The NMG recommends noise mitigation in the following order of preference:

- Quieter road pavement surfaces
- Noise mounds
- Noise barriers (noise walls)
- At-property treatments.

Selection of the noise mitigation option, or combination of options, is carried out with reference to the following feasible and reasonable considerations:

- Feasible - relates to engineering considerations in terms of what can be practically built and includes:
  - Safety issues such as restrictions on road vision
  - Road corridor site constraints such as space limitations
  - Floodway and stormwater flow obstruction
  - Access requirements for maintenance
  - Maintenance requirements including ongoing costs

- Wind loading and ground conditions
- The suitability of building conditions for at-property treatments.
- Reasonable - selecting reasonable noise mitigation measures from those that are feasible involves judging whether the overall noise benefits provide significant social, economic or environmental benefits, including:
  - The noise reduction provided and the overall number of people that benefit from the mitigation
  - Existing and future noise levels, including changes in noise levels in the opening and design year and the extent of any exceedance of the noise criteria
  - The cost of mitigation, including the cost of noise mitigation measures as a percentage of the total project cost and the ongoing maintenance and operational costs
  - Visual impacts for the community surrounding the project and for road users, including shadowing
  - Driveway access
  - The wider community benefits arising from noise mitigation
  - Potential for a mitigation measure to reduce noise during construction as well as during operation.

### **5.7.3 Low noise road pavements**

Quieter pavement surfaces are the preferred form of noise mitigation as it reduces source noise levels and has a low visual impact. This provides noise benefits to outdoor recreational areas in addition to reducing internal road traffic noise levels.

In general, quieter pavements may provide noise benefits to receivers at greater distances than noise barriers. This may occur where receivers at greater distances already have shielding from rows of houses near road or topography.

The NMG states that noise barriers and noise mounds should be considered where there are four or more closely spaced sensitive receivers that would benefit from the noise barrier or noise mound. Residences are generally considered closely spaced where the façade are separated by less than 20 metres.

Groups of four or more closely spaced receivers were identified along Victory Road at locations outside the project area. Therefore, quieter pavement surfaces is not considered a reasonable mitigation option along Victory Road.

Four residences along the northern side of Sunningdale Drive (see Figure 5.2) qualify for mitigation during the ultimate design phase. Low noise pavement surfaces would likely benefit four or more closely spaced receivers along the northern side of Sunningdale Drive (20 Sunningdale Drive to 68 Sunningdale Drive). Noise modelling of low noise pavement surfaces should be undertaken during the detailed design phase of the project considering where it is reasonable and feasible to use.

### **5.7.4 Noise barrier and noise mounds**

The NMG states that noise barriers and noise mounds should be considered where there are four or more closely spaced sensitive receivers that would benefit from the noise barrier or noise mound. Residences are generally considered closely spaced where the façade are separated by less than 20 metres.

Groups of four or more closely spaced receivers were identified along the eastern side of Victory Road. However, noise mounds or noise barriers were not considered to be feasible along the eastern side of Victory Road as:

- There is insufficient space to construct noise mounds
- They would block existing driveway access for properties.

Four residences along the northern side of Sunningdale Drive (see Figure 5.2) qualify for mitigation during the ultimate design phase. A noise barrier along the southern side of Townson Road would likely benefit four or more closely spaced receivers along the northern side of Sunningdale Drive (20 Sunningdale Drive to 68 Sunningdale Drive).

A noise barrier analysis should be undertaken during the detailed design phase of the project considering where it is reasonable and feasible to construct a noise barrier.

### 5.7.5 At-property treatments

The At-Receiver Noise Treatment Guideline (ARNTG) (Roads and Maritime, 2017) provides the details needed to specify feasible and reasonable at-receiver noise mitigation measures. At-receiver noise mitigation should be considered where at source controls such as barriers and quieter pavements were not feasible or reasonable or were unable to reduce noise levels to the NCG criteria.

In most instances, the aim of architectural treatments is to provide internal noise levels that are approximately 20 dBA less than the external noise criteria with windows closed. This would provide similar acoustic amenity and internal noise levels to those experienced at a receiver where the external noise criteria have been met.

The architectural treatment packages offered to residential structure are based on the level of exceedance above the noise criteria. The architectural treatment package types and the number of residential structures in each category are provided in Table 5-8. Appendix O lists the residences and the treatment package type identified.

**Table 5-8 Architectural treatment package types**

Treatment package type	Exceedance of NCG criteria, dBA	Number of qualifying residences
<b>Ultimate phase</b>		
1	1-5	15
2	6-8	17
3	9-11	1
4	12-14	2
5	>14	2 <sup>1</sup>
<b>Interim phase</b>		
1	1-5	5
2	6-8	2
3	9-11	3
4	12-14	2
5	>14	1 <sup>2</sup>

Notes: 1. Durham Road is to be acquired prior to the construction of the ultimate phase and as such, does not require architectural treatments. 42 Jersey Road is proposed to be acquired prior to Townsons Road Stage 2. The timing of the acquisition should be considered prior to the implementation of architectural treatments.

2. 46 Durham Road is to be acquired prior to the construction of the interim phase and as such, does not require architectural treatments.

### 5.7.6 Post construction noise monitoring program

To confirm that the noise level targets are achieved, the NMG refers to the ENMM *Practice Note 8* which recommends that a post-construction noise monitoring program be undertaken. The NMG states: 'Note that where the outcome of the compliance report is that further noise mitigation should be considered the processes in this guideline should be followed.' The *Model Validation Guideline (MVG) (Roads and Maritime, 2018)* Section 6 also provides guidance on Post Construction Operational Compliance.

### 5.8 Maximum noise level/sleep disturbance assessment (ultimate phase)

The *Road Noise Policy* provides a literature review for the assessment of sleep arousal due to traffic noise however does not set a sleep disturbance assessment criterion. Sleep disturbance impacts are likely to be dependent on the following:

- Maximum noise level of an event
- Number of occurrences
- Duration of the event
- Level above background or ambient noise levels.

For continuous rather than intermittent traffic flow, the Environmental Noise Management Manual (RTA, 2001) recommends  $L_{Amax}$  noise pass-by events may lead to sleep disturbance if the  $L_{Amax}$  noise levels exceeds the  $L_{Aeq(1hr)}$  noise level by more than 15 dB(A) when the  $L_{Amax}$  noise levels is greater than 65 dB(A).

The ENMM advises that the maximum noise level can be used as a tool to prioritise and rank mitigation strategies, but should not be applied as a decisive noise criterion for selection of mitigation treatments.

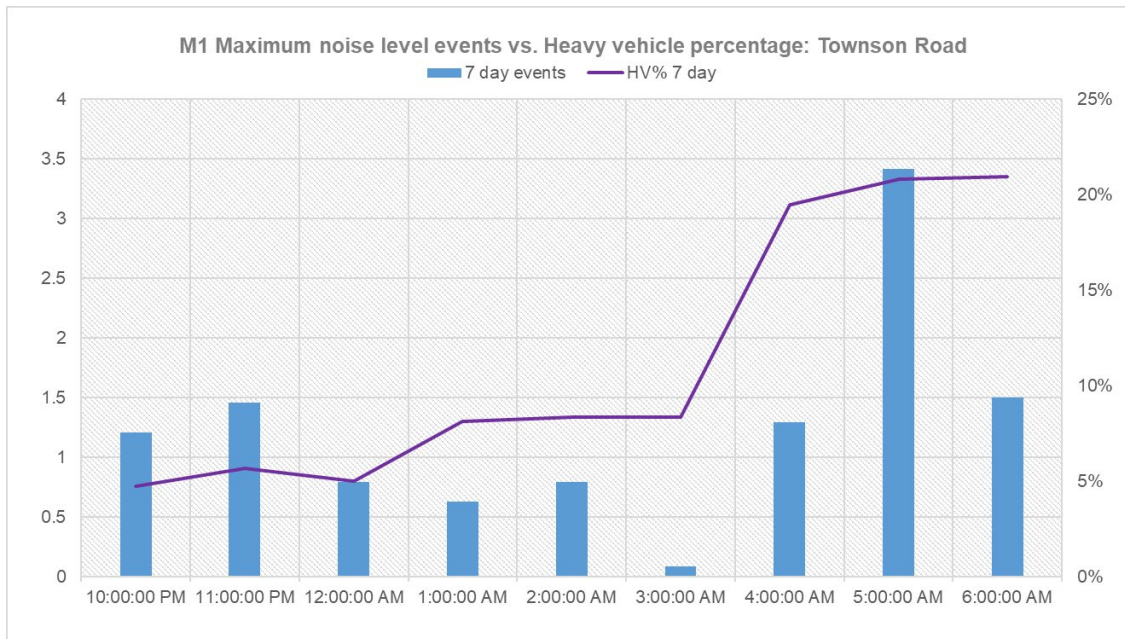
The  $L_{Amax}$  and  $L_{Aeq(1hr)}$  noise levels during the night-time period (10 pm to 7 am) at the road traffic noise monitoring locations are summarised in Table 5-9.

**Table 5-9 Summary of logged maximum noise levels - dB(A)**

Noise monitoring location	NCA	$L_{Amax}$ range		$L_{Amax} - L_{Aeq(1hr)}$ range		Average $L_{max}$ Events per night (7 days)
		Min	Max	Min	Max	
M1	NCA01	66	84	15	34	11
M2	NCA01	65	95	15	40	59
M3	NCA03	66	80	15	36	6
M5	NCA04	66	87	15	48	30

Figure 5.3 below shows a correlation between heavy vehicle composition and the number of maximum noise level events for Townson Road, based on the noise monitoring at M1 and the traffic counts along Townson Road during the monitoring period.





**Figure 5.3 Maximum noise level events vs. HV% on Townson Road**

The difference in distance between the old Townson Road alignment (including Meadow Road) and the new Townson Road alignment was calculated to the nearest façade of the each residential receiver in the study area. The difference in distances was used to calculate the expected differences in maximum noise levels for residences within each NCA. Table 5-10 presents the range of differences of distances (between the receiver and Townson Road) and the difference in maximum noise levels expected for receivers within each NCA.

**Table 5-10 Differences in max. noise levels for residences**

NCA	Range of difference in distance, metres		Average difference in distance (metres)	Range of difference in noise level, dBA		Average difference in noise level (dBA)	No. of receivers with a reduction in max noise level	No. of receivers with an increase in max noise level
	Min	Max		Min	Max			
NCA01	-1	+5	3	-0.3	+1	0.3	1	4
NCA02	-10	+13	5	-1.7	+8.4	+0.4	82	443
NCA03	-17	+11	-10	-1.2	+0.2	-0.3	161	2
NCA04	-143	+168	-23	-15	+17.8	-0.3	32	20

The current maximum noise levels exceed the  $L_{Aeq(1hr)}$  noise levels by more than 15 dBA and are above 65 dB(A) during the night time. A maximum noise level assessment has been undertaken based on the computer noise modelling of the outer lanes of the existing and upgraded road configuration to the residences within the study area (ultimate phase as the worst-case).

General deductions based on the maximum noise level results can be made:

- For residential receivers within NCA01, the difference in maximum noise levels due to the upgraded road configuration is not expected to result in a discernible difference in perceived noise levels.
- For residential receivers within NCA02, the difference in maximum noise levels due to the upgraded road configuration is expected to result in an increase of up to 8.4 dBA. However, it should be noted that the closest residences to Townson Road within NCA02 are yet to be built (Luxeland Development Stage 2).

- For residential receivers within NCA03, the difference in maximum noise levels due to the upgraded road configuration is not expected to result in a discernible difference in perceived noise levels.
- The residential receivers within NCA04 are predicted to receive the largest variability in the difference of maximum noise levels, with the receiver at R0929 predicted to expect a maximum noise level increase of up to 18 dBA. It should be noted that the majority of receivers within NCA04 are predicted to expect a reduction in maximum noise levels due to the upgraded road configuration.
- Some receivers may be exposed to more frequent maximum noise events due to the increased traffic volumes on the road.

It should be noted that the prediction of maximum noise levels for new roads possess a reasonable level of uncertainty. Roads and Maritime do not provide any requirements to provide noise mitigation options on the basis of the maximum noise level assessment. Rather, maximum noise levels assessment can be used to prioritise the application of noise mitigation measures.

### 5.9 Pedestrian crossing operational noise (ultimate phase)

As part of the signalised intersections at Victory Road and the new road, pedestrian crossing lights will be installed for the ultimate phase. These intersections are proposed to be roundabouts for the interim phase and as such, no pedestrian crossing lights will be installed.

Operational noise impacts from the installation of pedestrian audio tactile devices at residential receivers has been considered with respect to the Noise Policy for Industry (EPA 2017) and the guidance provided in AS2353-1999 Pedestrian push-button assemblies.

As the audio devices operate intermittently, and in accordance with previous Roads and Maritime noise assessments, the background plus 15 dBA  $L_{Amax}$  sleep disturbance criteria have been considered relevant to the proposal. The measured rating background noise level for the night time period has been adopted from the M2 and M4 measurement locations (closest monitoring locations to Victory Road and the new road, respectively). The noise criteria is summarised in Table 5-7.

**Table 5-11 Audio tactile device operational noise criteria**

Receiver	Time period	RBL, $L_{A90}$	$L_{Amax}$ noise criteria (external)
All residences	Night	37	52

The potential noise impacts of the audio tactile devices have been modelled for the crossing signal. These were modelled with a sound pressure level of 85 dBA with a frequency of 500 Hz (measured at one metre with a height of 1.5 metres) as specified in AS2353-1999 *Pedestrian push-button assemblies* Clause 3.3.6.

Noise from the nearest audio tactile device to the residential receivers has been modelled in SoundPLAN v7.4. Predicted noise levels at the most-affected residential receivers are provided in Table 5-12. Note should be made that there are no existing residential receivers adjacent to the new road intersection. Exceedances of the criteria are shown in **red and bold**.

**Table 5-12 Predicted noise levels – audio tactile device**

Receiver I.D	Receiver Type	NCA	L <sub>Amax</sub> criteria	Predicted L <sub>Amax</sub> noise level
R0038	Residential	NCA01	52	49
R0224	Residential	NCA02	52	46
R0233	Residential	NCA02	52	46
R0240	Residential	NCA02	52	47
R0248	Residential	NCA02	52	48
R0263	Residential	NCA02	52	50
R0269	Residential	NCA02	52	<b>53</b>
R0275	Residential	NCA02	52	<b>55</b>
R0282	Residential	NCA02	52	<b>55</b>
R0296	Residential	NCA02	52	<b>69</b>
R0301	Residential	NCA02	52	<b>65</b>
R0302	Residential	NCA02	52	<b>58</b>
R0303	Residential	NCA02	52	52
R0305	Residential	NCA02	52	51
R0308	Residential	NCA02	52	48
R0310	Residential	NCA02	52	46

The results shown above indicate that the noise generated by the audio tactile devices at the pedestrian crossing signal post is predicted to comply with the sleep disturbance noise criteria at all sensitive receivers during the night time period except for the six closest residential receivers within the Luxeland Development Stage 2 (corner of Townson Road and Victory Road South).

Noise mitigation measures applicable to the audio tactile devices to reduce potential sleep disturbance impacts may include volume adjustment limiting the devices to a sound pressure level of 68 dBA at 1 metre should there be no pedestrian safety issues (people with visual impairments). If volume adjustment is not possible, noise mitigation may need to include architectural treatments for affected residences.

## 6. Cumulative impacts

The following developments within close proximity of the proposal have the potential to occur at the same time as the construction of the proposal, and therefore have the potential to contribute to cumulative construction noise impacts within the study area:

- Luxeland development
- Altove development
- CSR development.

Cumulative impacts would be dependent upon a number of factors including the intensity and location of construction activities, the type of equipment used by the contractor, existing background noise levels, intervening local structures and the prevailing weather conditions.

The predicted noise levels provided as part of this assessment are considered to be a worst-case and will decrease as the construction activity moves along the road corridor, away from affected receivers. In the event of multiple construction development activities happening simultaneously, it is estimated that the worst-case levels provided as part of this assessment would potentially be audible at the receiver for a longer duration.

Construction noise management plans would be prepared for the individual developments to minimise the potential for cumulative impacts. Furthermore, coordination would be undertaken with other stakeholders associated with those projects prior to construction to ensure construction activities are appropriately scheduled and undertaken to minimise impacts.

# 7. Conclusion

## Overview

Transport for NSW (TfNSW) is proposing to construct a four-lane divided road along Townson Road/Burdekin Road corridor linking Richmond Road, Marsden Park in the west and Burdekin Road, Schofields in the east (the project). The length of the project is about 3.6 kilometres.

This noise and vibration assessment report assesses the potential impacts associated with the proposal, involving an upgrade of about 1.6 kilometres of road extending from Richmond Road to south of Jersey Road.

Stage 2 is about two kilometres in length involving the construction of a new road between the proposal tie-in and Burdekin Road and is subject to a separate planning approval.

## Construction noise

The predicted levels indicate that the noise management levels will be exceeded during both standard hours and OOHW2 works (night works) during the interim phase and ultimate phase of the project.

It should be noted that the magnitude of off-site noise impacts associated with construction will be dependent upon a number of factors including the intensity and location of construction activities, the type of equipment used by the contractor, existing background noise levels, intervening local structures and the prevailing weather conditions.

Noise mitigation measures are further discussed in Section 4.10 in accordance with the requirements of the *Construction Noise and Vibration Guideline* (CNVG) (Roads and Maritime, 2016).

## Construction noise – sleep disturbance

The predicted results indicate that up to 16 residential receivers are anticipated to exceed the sleep disturbance criteria during the construction of new road (North) and new road (South) during the construction of the interim phase. During the construction of the ultimate phase, up to 24 residences are predicted to exceed the sleep disturbance criteria.

All workers would be briefed on the need to minimise noise as a result of their activities. This would be included in a noise management plan. The Construction Noise and Vibration Management Plan (CEMP) would identify noise sensitive locations and the work practices to be implemented to minimise noise impacts.

## Construction vibration

For the interim construction works, 42 buildings within the study area have been identified to (5 existing and 37 future) fall within the 20 metre safe working distance for vibratory rolling works. For the ultimate phase construction works, 39 buildings within the study area have been identified to (3 existing and 36 future) fall within the 20 metre safe working distance for vibratory rolling works.

No vibration impacts are anticipated as a result of bored piling to construct the Bells Creek Bridge.

Mitigation measures to reduce potential vibration impacts to receivers are presented in Section 4.10.

### Construction traffic noise

The additional traffic during the construction of the interim phase is not predicted to increase noise levels by more than 2 dBA for sensitive receivers along the temporary access road directly adjacent to Townson Road.

The additional traffic during the construction of the ultimate phase is not predicted to increase noise levels by more than 2 dBA for sensitive receivers along Townson Road given construction heavy vehicles limit their speed to 40 km/hr along these roads. As such, compliance with the Road Noise Policy (RNP) (DECCW, 2011) is anticipated.

### Operational road traffic noise

Based on the operational road traffic noise modelling, 37 residential receivers qualify for noise mitigation for the ultimate phase and 13 residential receivers qualify for noise mitigation for the interim phase. However, it should be noted that 46 Durham Road is to be acquired prior to for the proposal and 42 Jersey Road is to be acquired prior to Townson Road Stage 2.

Groups of four or more closely spaced receivers were identified along Victory Road at locations outside the project area. Low road noise pavements were not considered a reasonable or feasible mitigation option as the sections of Victory Road adjacent to the qualifying residences were outside the project area. Noise mounds or noise barriers were not considered reasonable or feasible mitigation options due to limited space and the direct access required for residences along the eastern side of Victory Road.

Low noise pavement surfaces would likely benefit four or more closely spaced receivers along the northern side of Sunningdale Drive (20 Sunningdale Drive to 68 Sunningdale Drive). Noise modelling of low noise pavement surfaces should be undertaken during the detailed design phase of the project considering where it is reasonable and feasible to use.

Four residences along the northern side of Sunningdale Drive qualify for mitigation during the ultimate design phase. A noise barrier along the southern side of Townson Road would likely benefit four or more closely spaced receivers along the northern side of Sunningdale Drive (20 Sunningdale Drive to 68 Sunningdale Drive). A noise barrier analysis should be undertaken during the detailed design phase of the project considering where it is reasonable and feasible to construct a noise barrier.

Residual noise impacts at sensitive receivers would be eligible for at-property treatments.

### Operational road traffic noise – sleep disturbance

For residential receivers within Noise Catchment Area 1 (NCA01) and Noise Catchment Area 3 (NCA03), the difference in maximum noise levels due to the upgraded road configuration is not expected to result in a discernible difference in perceived noise levels

For residential receivers within Noise Catchment Area 2 (NCA02), the difference in maximum noise levels due to the upgraded road configuration is expected to result in an increase of up to 8.4 dBA. However, it should be noted that the closest residences to Townson Road within NCA02 are yet to be built (Luxeland Development Stage 2).

The residential receivers within Noise Catchment Area 4 (NCA04) are predicted to receive the largest variability in the difference of maximum noise levels. It should be noted that the majority of receivers within NCA04 are predicted to expect a reduction in maximum noise levels due to the upgraded road configuration.

### **Operational noise – audio tactile devices**

The results indicate that the noise generated by the audio tactile devices at the pedestrian crossing signal post (ultimate phase only) is predicted to comply with the sleep disturbance noise criteria at all sensitive receivers during the night time period except for the six closest residential receivers within the Luxeland Development Stage 2 (corner of Townson Road and Victory Road South).

General noise mitigation measures applicable to the audio tactile devices to reduce potential sleep disturbance impacts should include volume adjustment limiting the devices to a sound pressure level of 68 dBA at one metre.

## 8. References

Assessing Vibration: A Technical Guideline (DEC, 2006)

At-Receiver Noise Treatment Guideline (ARNTG) (Roads and Maritime, 2017)

Australian Standard AS 2436-2010: Guide to noise and vibration control on construction, demolition and maintenance sites

Australian Standard AS2353-1999 Pedestrian push-button assemblies

British Standard BS 5228.2 – 2009, Code of Practice Part 2 Vibration for noise and vibration on construction and open sites – Part 2: Vibration

British Standard BS 6472 – 1992, Guide to Evaluation of Human Exposure to Vibration in Buildings

British Standard BS 7385 – 2: 1993, Evaluation and measurement for vibration in buildings – Part 2: Guide to damage levels from groundborne vibration (British Standard, 1993)

Calculation of Road Traffic Noise (CoRTN) (UK Department of Transport, Welsh Office 1988)

Construction Noise and Vibration Guideline (CNVG) (Roads and Maritime, 2016)

Development Application Conditions of Consent DA16/04442 (Blacktown City Council 2016)

Development Application Conditions of Consent DA17/01939 (Blacktown City Council 2017)

Environmental Noise Management Manual (ENMM) (RTA 2001)

Interim Construction Noise Guideline (ICNG) (DECC, 2009)

International Standards Organisation ISO 9613 – 2 Acoustics – Attenuation of sound during propagation outdoors.

Noise Criteria Guideline (NCG) (Roads and Maritime, 2015)

Noise Mitigation Guideline (NMG) (Roads and Maritime, 2015)

Noise Model Validation Guideline (NMVG) (Roads and Maritime, 2018)

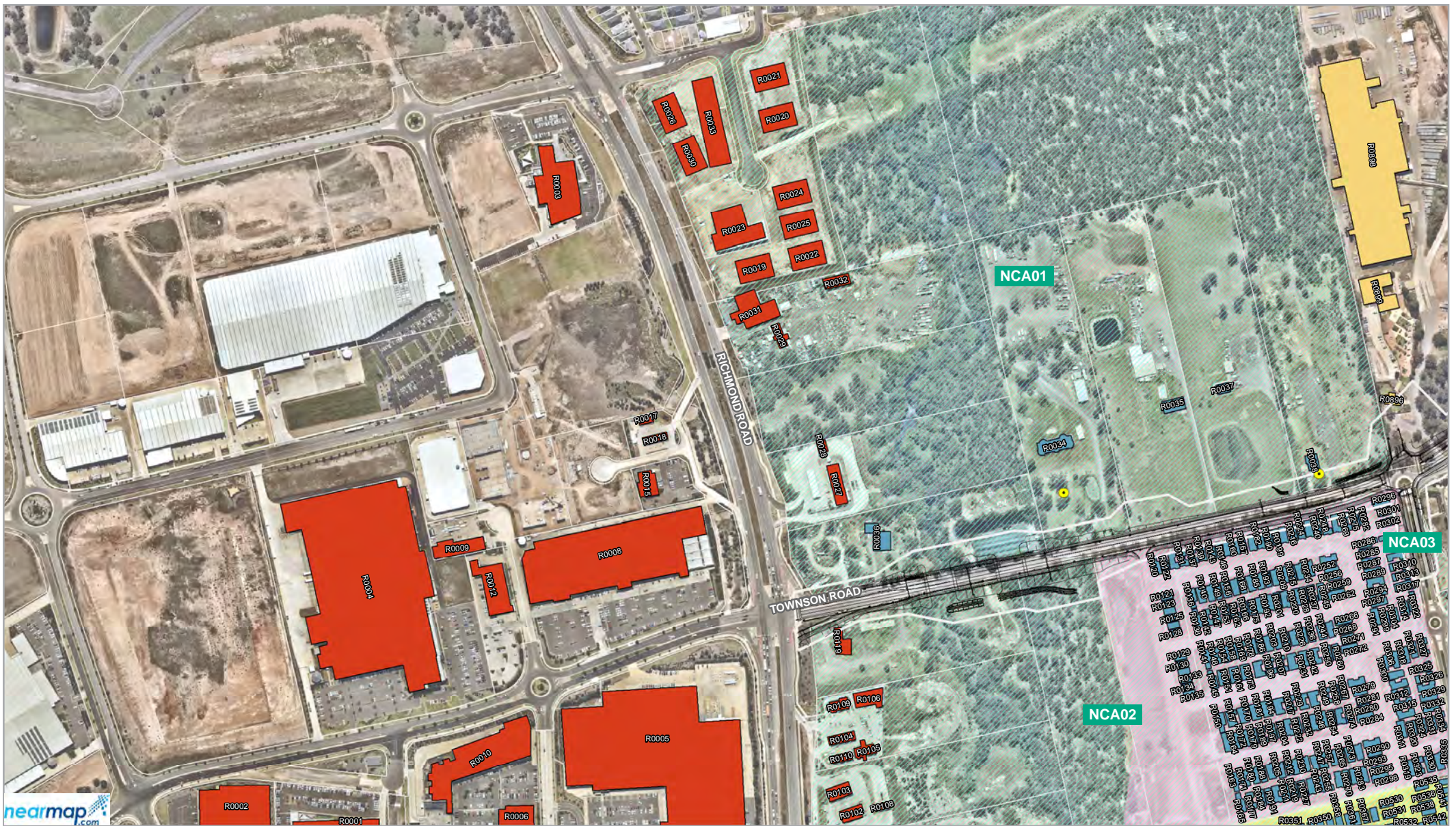
Noise Policy for Industry (NPI) (EPA, 2017)

Road Noise Policy (RNP) (DECCW, 2011).



# Appendices

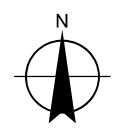
# **Appendix A** – Detailed sensitive receiver map



**LEGEND**

Noise monitoring locations	Noise catchment areas	Sensitive receivers
The proposal (Ultimate) <i>Subject to detailed design</i>	New Residential Developments	Commercial
Construction footprint	Stage 1	Educational Institute
Cadastre	Stage 2	Industrial
		Residential

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 Metres



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 Grid: GDA 1994 MGA Zone 56

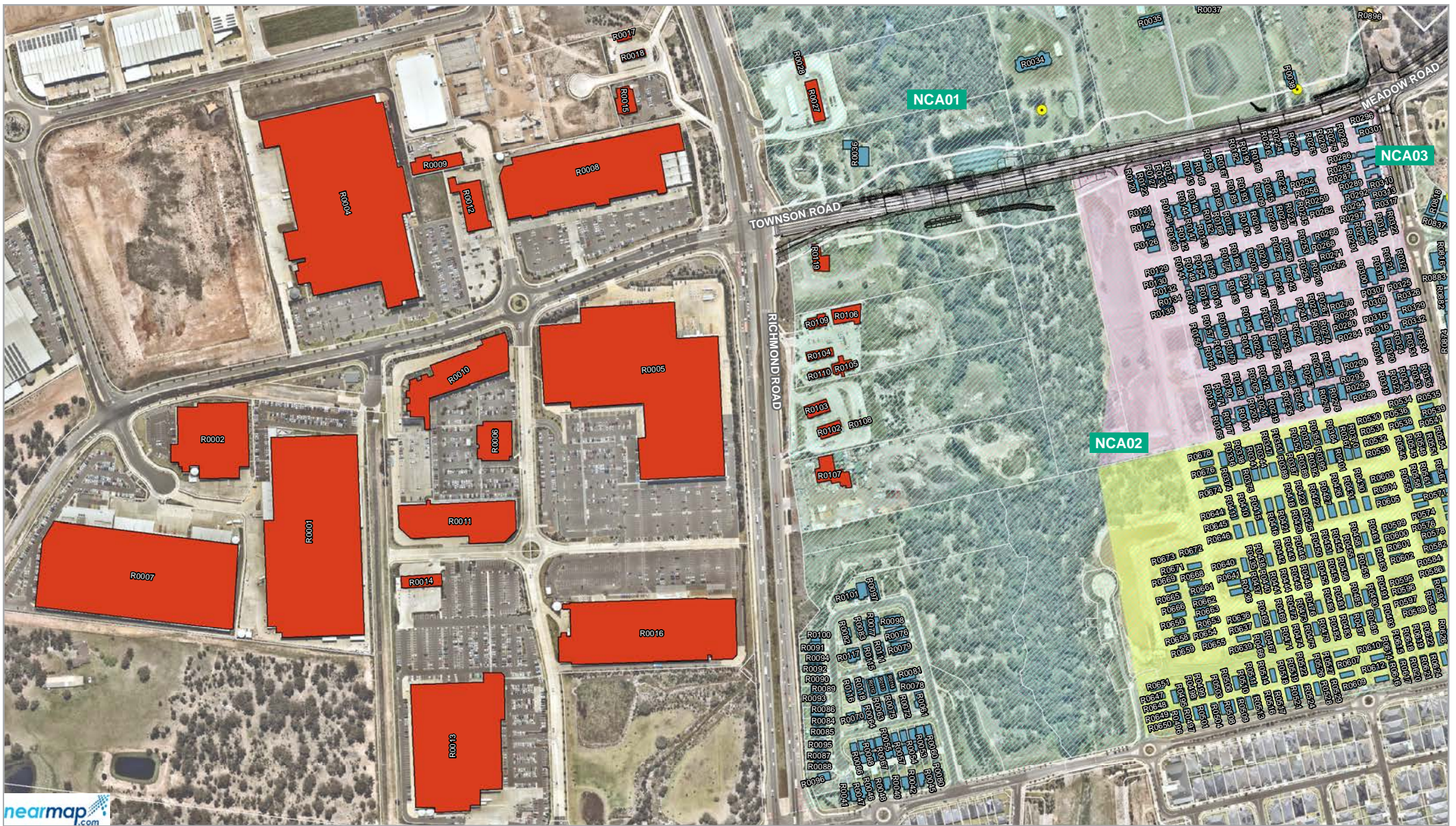


Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment

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Detailed sensitive receiver map  
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Appendix A



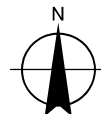
**LEGEND**

- Noise monitoring locations
- Noise catchment areas
- Sensitive receivers
- Commercial
- Educational Institute
- Industrial
- Residential
- The proposal (Ultimate) *Subject to detailed design*
- New Residential Developments
- Stage 1
- Stage 2
- Construction footprint
- Cadastre

Paper Size ISO A4



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



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Detailed sensitive receiver map  
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**Appendix A**



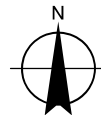
**LEGEND**

- Noise monitoring locations
- The proposal (Ultimate) *Subject to detailed design*
- Construction footprint
- Cadastre
- Noise catchment areas
- New Residential Developments
- Stage 1
- Stage 2
- Sensitive receivers
- Commercial
- Educational Institute
- Industrial
- Residential

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Map Projection: Transverse Mercator  
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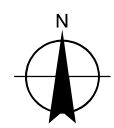
Detailed sensitive receiver map  
- 3/4

**Appendix A**



● Noise monitoring locations	▨ Noise catchment areas	□ Sensitive receivers
— The proposal (Ultimate) <i>Subject to detailed design</i>	▨ New Residential Developments	■ Commercial
▭ Construction footprint	■ Stage 1	■ Educational Institute
▭ Cadastre	■ Stage 2	■ Industrial
		■ Residential

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Map Projection: Transverse Mercator  
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Detailed sensitive receiver map  
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Appendix A

## **Appendix B** – List of sensitive receivers in the study area

RID	x	y	Address	Existing / Future	Usage	NCA	No. of floors	Study area
R0001	299730	6266705	7 FAIRVIEW PLACE MARSDEN PARK	Existing	Commercial	COM	7	Construction Only
R0002	299612	6266821	1 FAIRVIEW PLACE MARSDEN PARK	Existing	Commercial	COM	6	Construction Only
R0003	299986	6267558	RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	2	Construction Only
R0004	299765	6267100	16 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	4	Construction Only
R0005	300110	6266886	1 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	3	Construction Only
R0006	299938	6266818	9 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	1	Construction Only
R0007	299524	6266662	99 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	1	Construction Only
R0008	300047	6267130	2 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	3	Construction Only
R0009	299870	6267140	16 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	1	Construction Only
R0010	299897	6266896	9 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	5	Construction Only
R0011	299898	6266726	9 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	3	Construction Only
R0012	299912	6267093	10 HOLLINSWORTH ROAD MARSDEN PARK	Existing	Commercial	COM	1	Construction Only
R0013	299895	6266469	10 LANGFORD DRIVE MARSDEN PARK	Existing	Commercial	COM	4	Construction Only
R0014	299854	6266655	10 LANGFORD DRIVE MARSDEN PARK	Existing	Commercial	COM	2	Construction Only
R0015	300090	6267213	2 MARSDEN PARK ROAD MARSDEN PARK	Existing	Commercial	COM	2	Construction Only
R0016	300118	6266598	72 MARSDEN PARK ROAD MARSDEN PARK	Existing	Commercial	COM	3	Construction Only
R0017	300087	6267289	920 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Construction Only
R0018	300099	6267267	920 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	2	Construction Only
R0019	300215	6267464	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0020	300241	6267639	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0021	300232	6267686	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0022	300275	6267479	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0023	300190	6267510	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0024	300258	6267550	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0025	300266	6267515	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0026	300116	6267644	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Construction Only
R0027	300310	6267213	879 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0028	300292	6267257	875 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0029	300243	6267386	879 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0030	300139	6267595	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0031	300213	6267416	879 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0032	300310	6267449	879 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	2	Operational/Construction
R0033	300164	6267633	883-895 RICHMOND ROAD MARSDEN PARK	Existing	Commercial	COM	1	Operational/Construction
R0034	300563	6267259	35 TOWNSON ROAD MARSDEN PARK	Existing	Residential	NCA01	1	Operational/Construction
R0035	300700	6267306	51 TOWNSON ROAD MARSDEN PARK	Existing	Residential	NCA01	1	Operational/Construction
R0036	300359	6267152	9 TOWNSON ROAD MARSDEN PARK	Existing	Residential	NCA01	1	Operational/Construction
R0037	300758	6267325	55 TOWNSON ROAD MARSDEN PARK	Existing	Residential	NCA01	1	Operational/Construction
R0038	300861	6267239	63 TOWNSON ROAD MARSDEN PARK	Existing	Residential	NCA01	1	Operational/Construction
R0039	300433	6266426	23 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0040	300404	6266419	17 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	1	Construction Only
R0041	300346	6266406	5 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0042	300424	6266424	21 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0043	300415	6266421	19 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0044	300393	6266421	15 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0045	300444	6266428	25 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0046	300374	6266417	11 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0047	300365	6266411	9 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0048	300384	6266419	13 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0049	300355	6266409	7 ALDERTON DRIVE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0050	300355	6266463	19 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0051	300364	6266465	17 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0052	300441	6266482	1 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0053	300434	6266465	3 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0054	300425	6266463	7 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0055	300393	6266472	11 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	1	Operational/Construction
R0056	300432	6266480	3 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0057	300405	6266458	11 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0058	300413	6266476	7 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0059	300423	6266478	5 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0060	300444	6266467	3 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0061	300431	6266518	2 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	1	Operational/Construction
R0062	300414	6266460	9 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0063	300385	6266507	8 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0064	300370	6266504	10 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0065	300384	6266469	13 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	1	Operational/Construction
R0066	300358	6266448	19 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0067	300385	6266454	15 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0068	300376	6266452	17 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0069	300366	6266450	19 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0070	300354	6266498	12 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0071	300395	6266456	13 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0072	300414	6266514	4 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	1	Operational/Construction
R0073	300403	6266474	9 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0074	300374	6266467	15 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	1	Operational/Construction
R0075	300398	6266510	6 COOMBELL AVENUE COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0076	300405	6266594	13 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0077	300377	6266604	17 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0078	300420	6266535	7 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0079	300408	6266579	11 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0080	300453	6266431	1 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0081	300416	6266547	9 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0082	300347	6266593	21 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0083	300363	6266601	19 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0084	300314	6266493	44 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0085	300314	6266481	46 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0086	300313	6266504	42 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0087	300315	6266454	50 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0088	300316	6266442	52 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0089	300313	6266530	38 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0090	300313	6266541	36 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0091	300308	6266579	30 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0092	300310	6266554	34 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0093	300313	6266517	40 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0094	300310	6266567	32 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0095	300316	6266467	48 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0096	300318	6266428	54 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Construction Only
R0097	300378	6266644	20 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction
R0098	300400	6266609	15 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	1	Operational/Construction
R0099	300364	6266645	22 PIMLICO CRESCENT COLEBEE	Existing	Residential	NCA02	2	Operational/Construction















RID	x	y	Address	Existing / Future	Usage	NCA	No. of floors	Study area
R0694	301104	6266862	3 BIRKDALE STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0695	301149	6266875	6 BIRKDALE STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0696	301087	6266937	13 BIRKDALE STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0697	301154	6266846	2 BIRKDALE STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0698	301651	6267041	13 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0699	301590	6267043	5 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0700	301574	6267041	3 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0701	301616	6267004	4 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0702	301597	6266998	4 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0703	301637	6267046	11 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0704	301606	6267044	9 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0705	301621	6267045	9 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0706	301668	6267043	15 DIAMANTE COURT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0707	301435	6266950	6 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0708	301437	6266935	4 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0709	301388	6266931	5 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0710	301433	6266965	8 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0711	301435	6266980	10 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0712	301390	6266948	7 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0713	301392	6266966	9 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0714	301389	6266912	3 KINGSBARN STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0715	301135	6266766	6 MAJORS AVENUE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0716	301122	6266762	8 MAJORS AVENUE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0717	301150	6266770	5 MAJORS AVENUE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0718	301159	6266723	3 MAJORS AVENUE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0719	301129	6266717	1 MAJORS AVENUE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0720	301144	6266720	5 MAJORS AVENUE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0721	301228	6266710	15 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0722	301135	6266685	22 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0723	301224	6266744	11 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0724	301174	6266768	8 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0725	301184	6266707	14 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0726	301181	6266736	10 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0727	301163	6266691	18 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0728	301182	6266721	12 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0729	301174	6266783	6 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0730	301151	6266689	20 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0731	301225	6266771	17 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0732	301173	6266797	4 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0733	301226	6266731	11 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0734	301164	6266809	2 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0735	301223	6266757	11 MASTERS CIRCUIT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0736	301311	6266856	67 MEDALLIST PARADE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0737	301361	6266885	76 MEDALLIST PARADE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0738	301478	6266998	29 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0739	301389	6266982	37 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0740	301365	6267022	66 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0741	301439	6266918	9 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0742	301357	6266950	43 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0743	301535	6266995	21 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0744	301508	6267004	25 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0745	301358	6266979	39 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0746	301505	6267047	46 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0747	301493	6267048	48 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0748	301544	6266952	28 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0749	301374	6266867	1 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0750	301459	6266878	12 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0751	301496	6266968	17 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0752	301470	6266951	13 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0753	301347	6266905	49 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0754	301535	6267008	23 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0755	301439	6266861	8 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0756	301449	6266871	10 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0757	301461	6267048	52 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0758	301489	6266904	18 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0759	301534	6266944	26 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0760	301478	6267047	50 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0761	301458	6266942	11 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0762	301466	6266997	31 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0763	301546	6267045	40 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0764	301449	6267042	54 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0765	301560	6267044	38 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0766	301515	6266924	22 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0767	301427	6266853	4 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0768	301555	6266959	28 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0769	301356	6266919	47 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0770	301567	6266967	32 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0771	301585	6266990	36 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0772	301469	6266886	14 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0773	301349	6267020	68 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0774	301518	6267048	44 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0775	301524	6266936	24 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0776	301533	6267047	42 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0777	301501	6266916	20 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0778	301424	6267035	58 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0779	301436	6267039	56 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0780	301413	6267031	60 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0781	301399	6267025	62 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0782	301385	6267023	62 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0783	301357	6266933	45 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0784	301341	6266893	51 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0785	301574	6266975	34 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0786	301430	6266994	35 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0787	301511	6266977	19 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0788	301493	6267002	27 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0789	301416	6266843	4 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0790	301405	6266832	2 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0791	301396	6266887	5 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0792	301477	6266896	16 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction

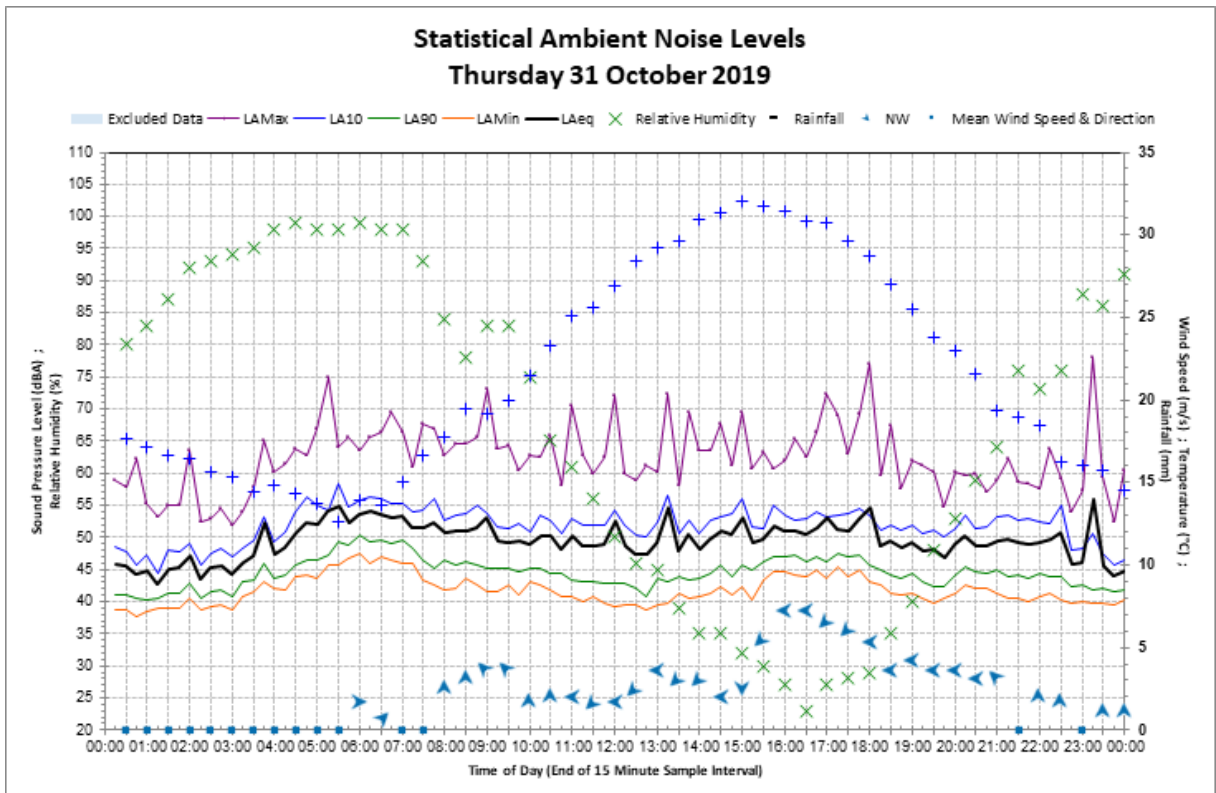
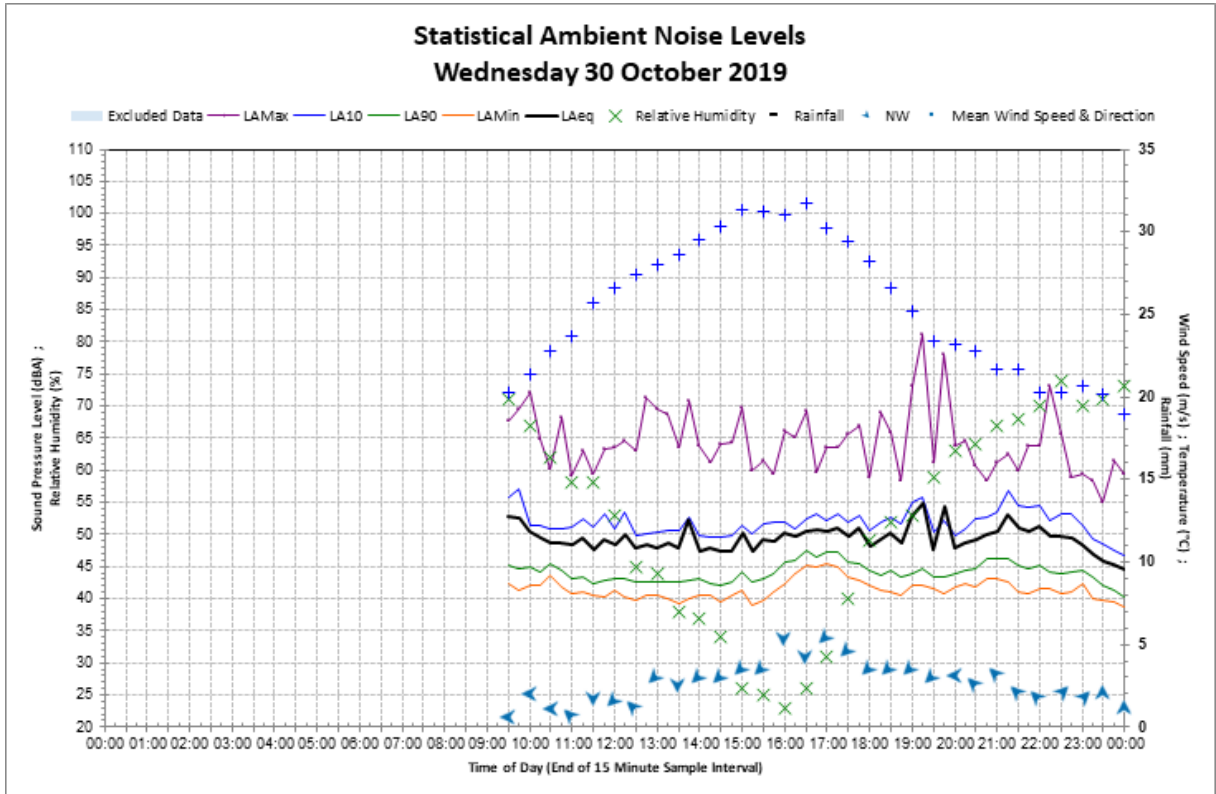
RID	x	y	Address	Existing / Future	Usage	NCA	No. of floors	Study area
R0793	301407	6266895	7 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0794	301453	6266994	33 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0795	301358	6266964	41 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0796	301385	6266877	3 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0797	301483	6266958	15 OAKHILL CRESCENT COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0798	301134	6266938	16 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0799	301229	6266904	5 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0800	301168	6266953	12 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0801	301157	6266948	14 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0802	301178	6266906	11 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0803	301208	6266961	6 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0804	301192	6266905	11 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0805	301165	6266900	11 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0806	301228	6266917	3 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0807	301216	6266915	5 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0808	301194	6266956	8 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0809	301181	6266957	10 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0810	301204	6266911	7 PINEHURST STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0811	301224	6267054	34 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0812	301030	6267027	41 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0813	301309	6267031	20 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0814	301231	6267011	21 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0815	301183	6267051	42 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0816	301046	6267027	41 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0817	301262	6267066	28 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0818	301026	6267089	68 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0819	301247	6266920	7 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0820	301271	6267008	17 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0821	301222	6267011	23 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0822	301212	6267009	25 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0823	301077	6267017	37 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0824	301255	6266969	13 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0825	301238	6267059	32 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0826	301107	6267055	54 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0827	301252	6267011	17 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0828	301078	6267065	60 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0829	301069	6267068	62 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0830	301097	6267059	56 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0831	301089	6267064	58 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0832	301250	6267062	30 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0833	301241	6267011	19 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0834	301060	6267071	64 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0835	301121	6267051	52 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0836	301119	6267009	35 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0837	301037	6267074	68 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0838	301276	6267052	26 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0839	301258	6266983	13 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0840	301202	6267054	38 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0841	301261	6266889	3 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0842	301063	6267020	39 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0843	301160	6267048	46 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0844	301148	6267048	48 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0845	301135	6267047	50 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0846	301186	6267002	27 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0847	301298	6267040	22 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0848	301172	6267050	44 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0849	301146	6266998	33 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0850	301287	6267046	24 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0851	301173	6266999	29 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0852	301158	6266998	31 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0853	301253	6266905	5 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0854	301198	6267006	25 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0855	301267	6266995	15 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0856	301245	6266958	9 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0857	301046	6267091	66 SUNNINGDALE DRIVE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0858	301111	6266842	18 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0859	301095	6266839	20 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0860	301128	6266797	19 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0861	301114	6266792	21 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0862	301176	6266859	14 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0863	301074	6266833	22 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0864	301213	6266867	8 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0865	301239	6266871	4 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0866	301143	6266798	17 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0867	301224	6266873	6 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0868	301189	6266860	12 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0869	301201	6266863	10 VALDERRAMA STREET COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0870	301097	6266751	20 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0871	301113	6266690	14 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0872	301057	6266932	40 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0873	301051	6266960	44 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0874	301054	6266946	42 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0875	301060	6266916	38 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0876	301066	6266902	36 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0877	301091	6266779	24 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0878	301067	6266887	34 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0879	301115	6266674	12 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0880	301069	6266872	32 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0881	301047	6266990	48 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0882	301050	6266975	46 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0883	301044	6267004	50 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0884	301107	6266701	16 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0885	301091	6266792	26 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0886	301094	6266765	22 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0887	301073	6266856	30 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0888	301106	6266717	18 VICTORY ROAD COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0889	301359	6266801	3 WOODHALL CLOSE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0890	301326	6266835	4 WOODHALL CLOSE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0891	301321	6266778	9 WOODHALL CLOSE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction

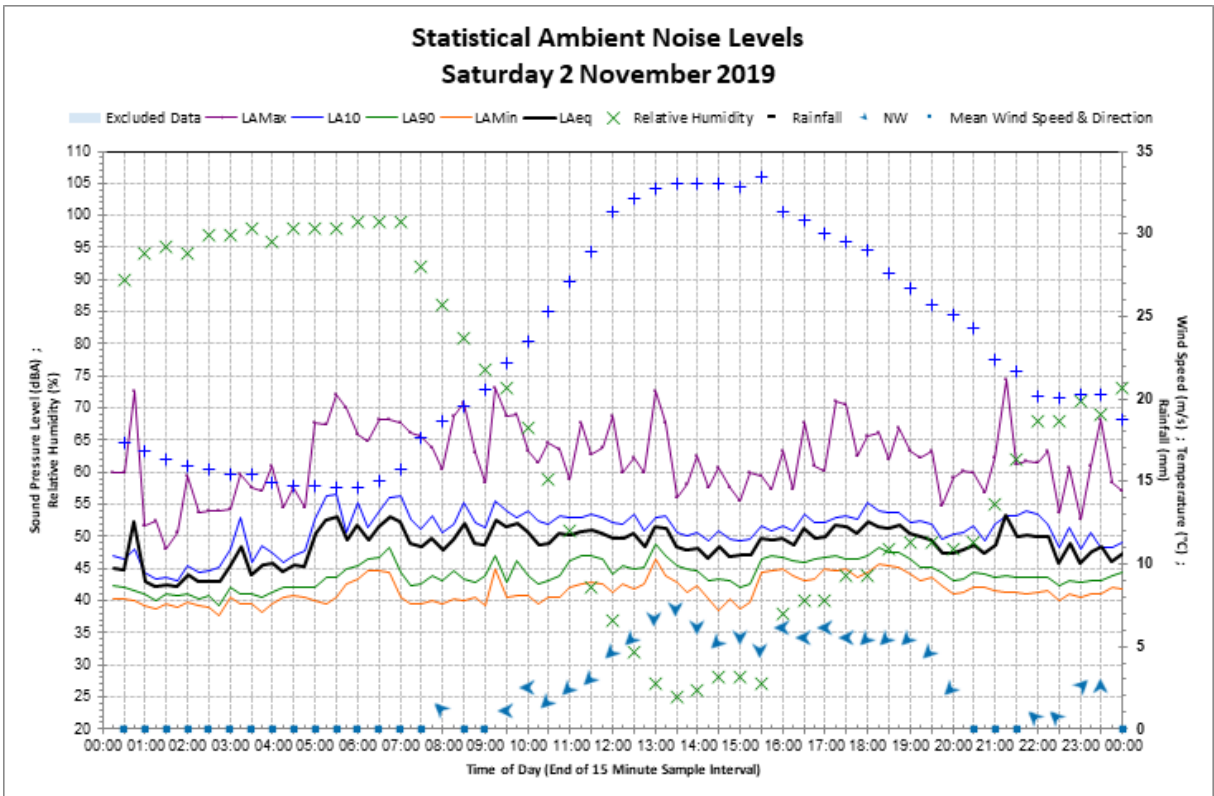
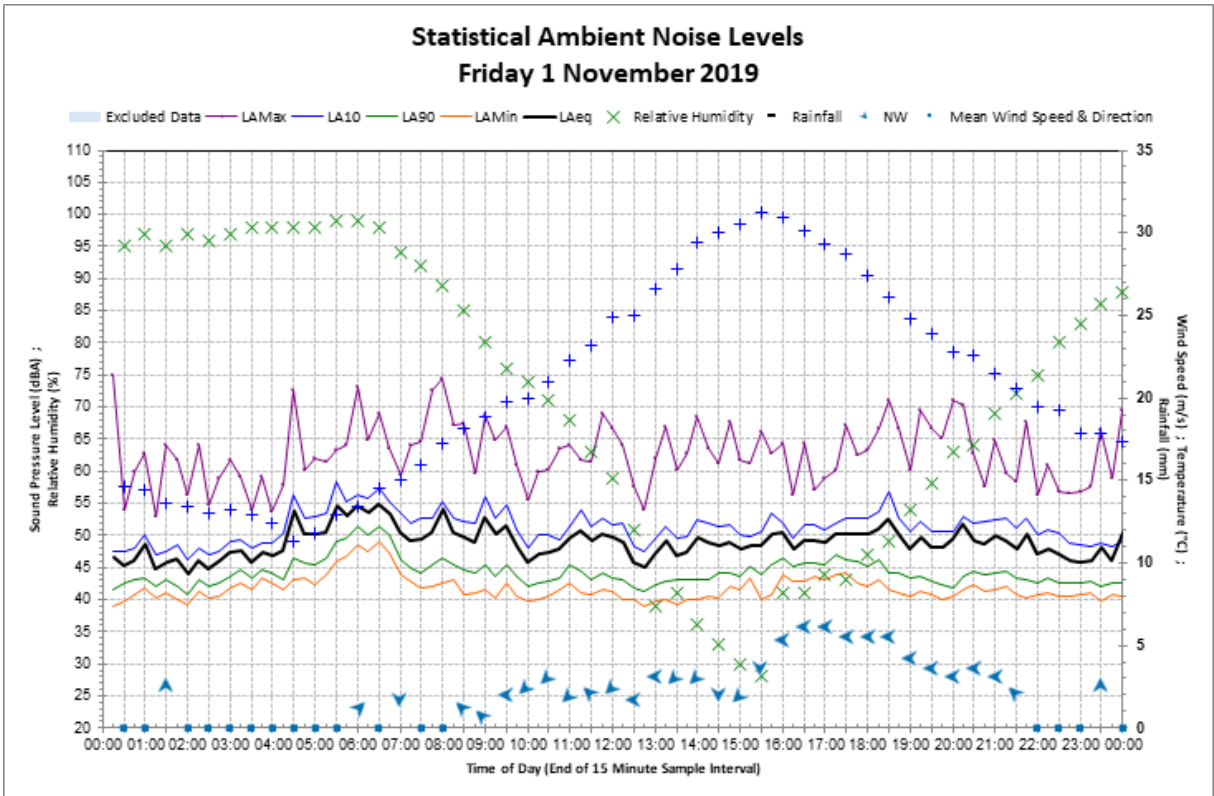


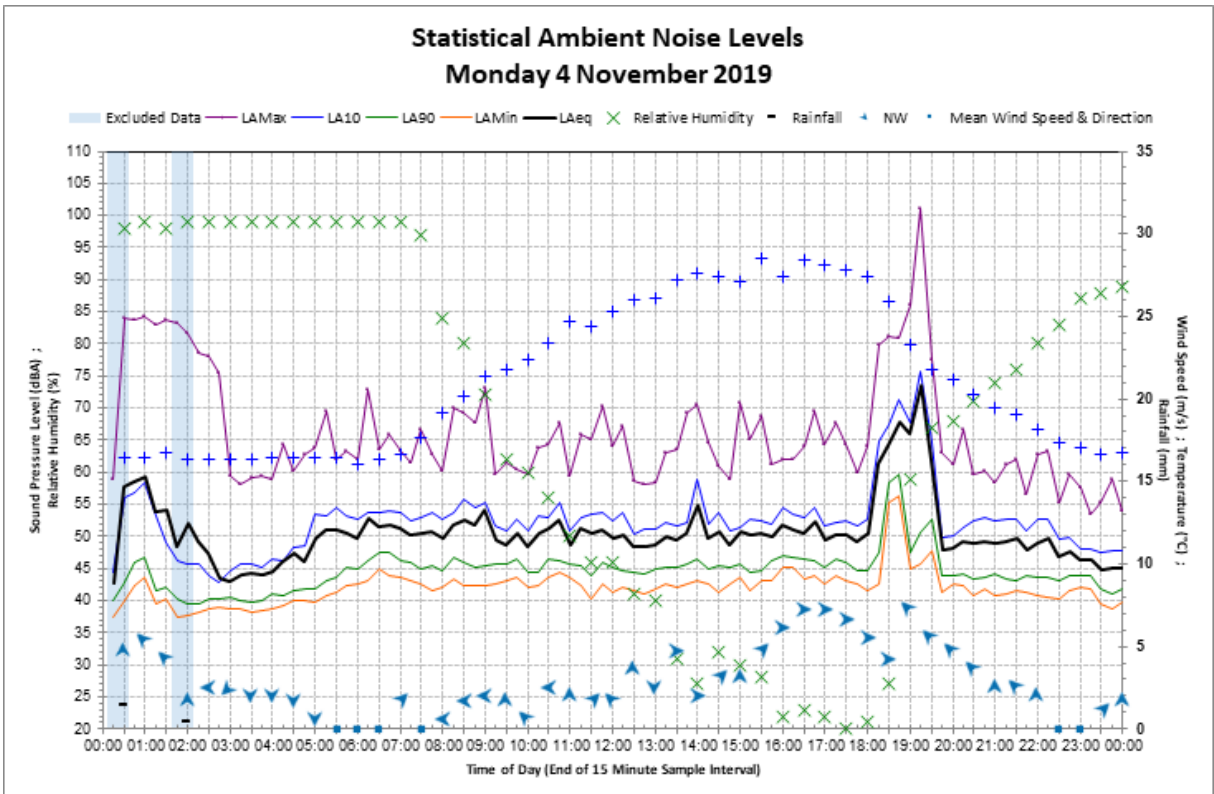
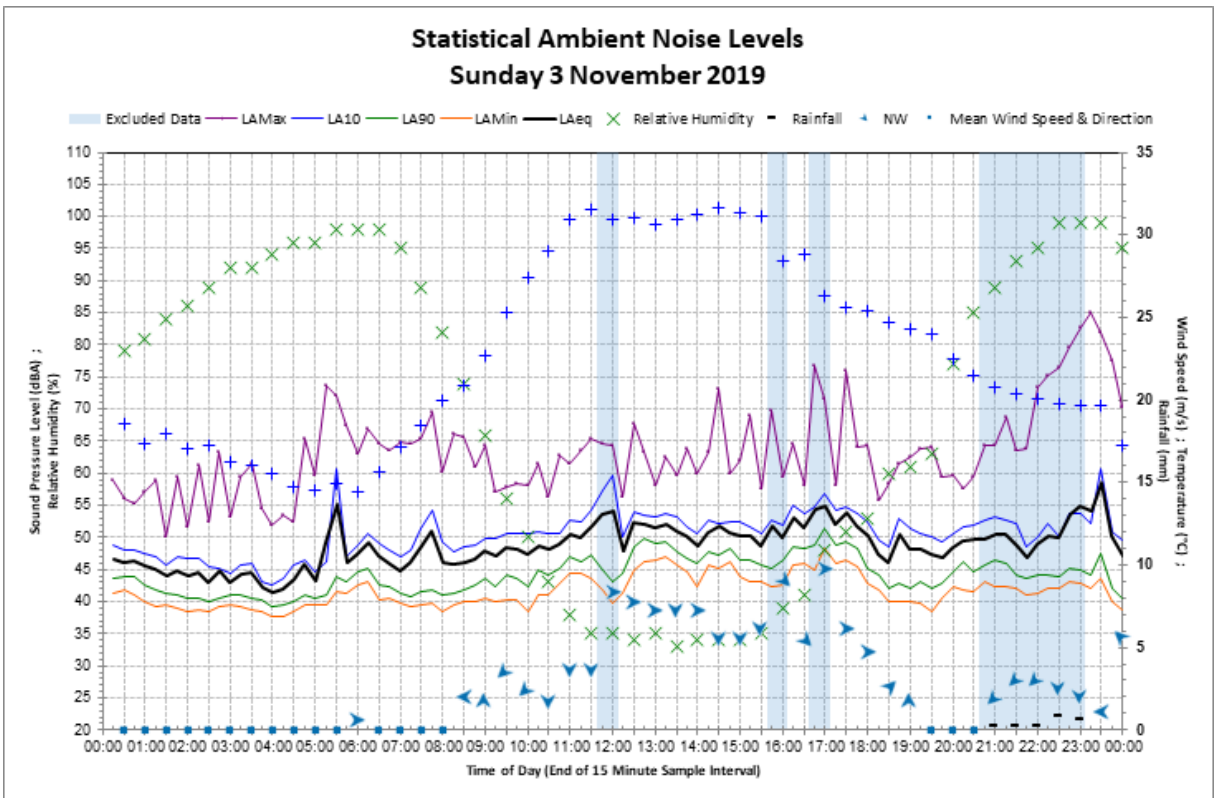
RID	x	y	Address	Existing / Future	Usage	NCA	No. of floors	Study area
R0892	301345	6266794	5 WOODHALL CLOSE COLEBEE	Existing	Residential	NCA03	2	Operational/Construction
R0893	301314	6266828	6 WOODHALL CLOSE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0894	301335	6266786	9 WOODHALL CLOSE COLEBEE	Existing	Residential	NCA03	1	Operational/Construction
R0895	301113	6267597	75 TOWNSON ROAD SCHOFIELDS	Existing	Industrial	IND	4	Operational/Construction
R0896	300954	6267312	75 TOWNSON ROAD SCHOFIELDS	Existing	Industrial	IND	2	Operational/Construction
R0897	301081	6267547	75 TOWNSON ROAD SCHOFIELDS	Existing	Industrial	IND	3	Operational/Construction
R0898	300925	6267589	75 TOWNSON ROAD SCHOFIELDS	Existing	Industrial	IND	2	Operational/Construction
R0899	300937	6267436	75 TOWNSON ROAD SCHOFIELDS	Existing	Industrial	IND	1	Operational/Construction
R0900	301400	6268355	58B ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0901	301562	6268389	46 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0902	301723	6268391	27 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0903	301569	6268306	45 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0904	301663	6268357	35 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0905	301739	6268554	24 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0906	301701	6268467	26 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0907	301779	6268427	21 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0908	301662	6268464	30 ANGUS ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0909	301461	6268198	1 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0910	301298	6268045	22 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0911	301692	6267734	61 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0912	301595	6267903	43 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0913	301295	6268133	14 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0914	301653	6267805	55 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0915	301609	6267886	43 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0916	301480	6267980	34 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0917	301305	6268169	14 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0918	301348	6268290	4 DURHAM ROAD SCHOFIELDS	Existing	Educational institute	NCA04	1	Construction Only
R0919	301436	6268056	26 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0920	301480	6268122	19 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0921	301528	6268039	27 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0922	301575	6267942	39 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0923	301673	6267755	61 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0924	301239	6268311	4 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0925	301373	6268241	8 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0926	301659	6267646	46 DURHAM ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0927	301872	6267689	25 JERSEY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0928	302036	6267573	12 JERSEY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0929	301692	6267642	42 JERSEY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0930	301840	6267625	32 JERSEY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0931	301987	6267688	15 JERSEY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0932	302023	6267674	9 JERSEY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0933	301910	6268438	7 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0934	302185	6267749	83 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	2	Construction Only
R0935	301941	6268352	17 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0936	301901	6268480	3 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0937	301966	6268296	23 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0938	302173	6267696	87 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0939	302105	6268059	55 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0940	302210	6267835	77 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0941	301904	6268018	44 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0942	302179	6267880	73-73 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0943	301901	6268223	28 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0944	302193	6267857	73 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0945	302137	6267960	61 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0946	301981	6268236	29 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0947	302201	6267806	77 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0948	302062	6268106	45 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0949	302159	6267916	65 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0950	302078	6267927	60 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0951	302148	6267563	101 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0952	302158	6267598	97 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0953	302033	6268009	52 KERRY ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Construction Only
R0954	301586	6267736	5 MEADOW ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0955	301479	6267798	10 MEADOW ROAD SCHOFIELDS	Existing	Residential	NCA04	1	Operational/Construction
R0956	301068	6267194	STONECUTTERS RIDGE GOLF CLUB	Existing	Passive recreation	NCA03	1	Operational/Construction

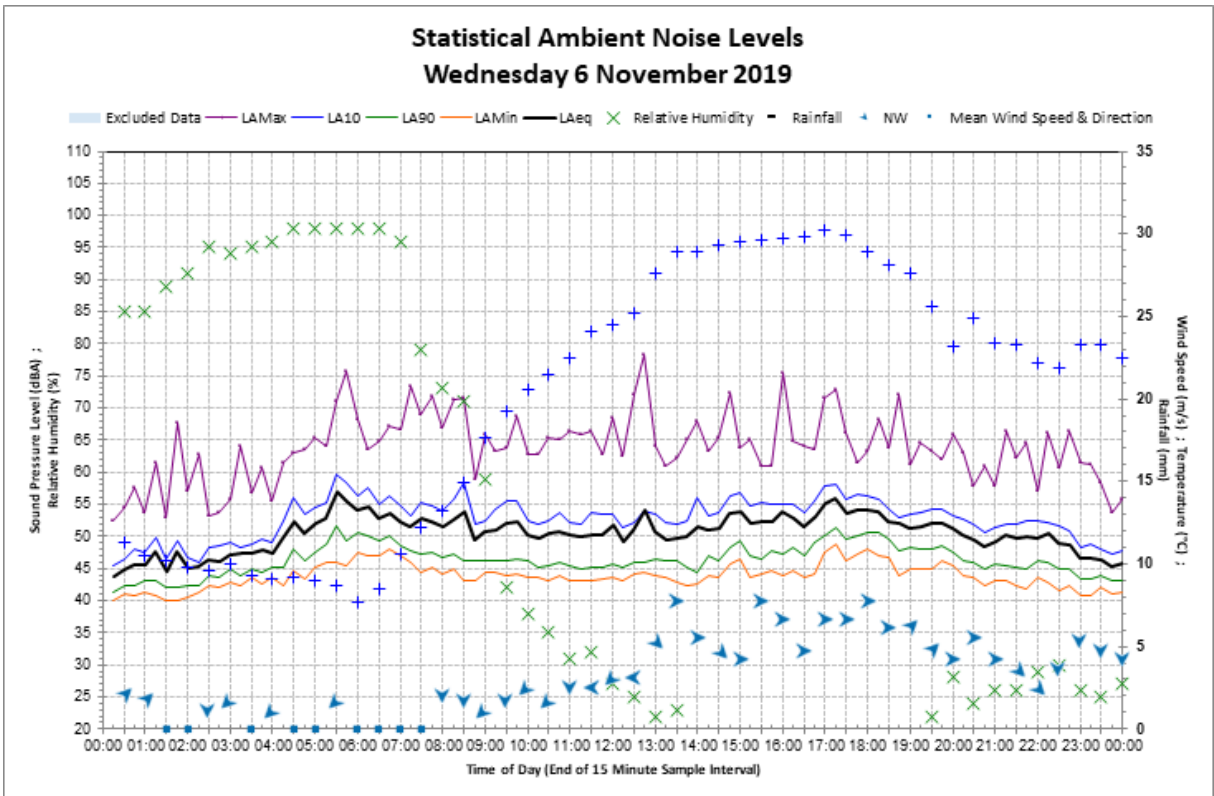
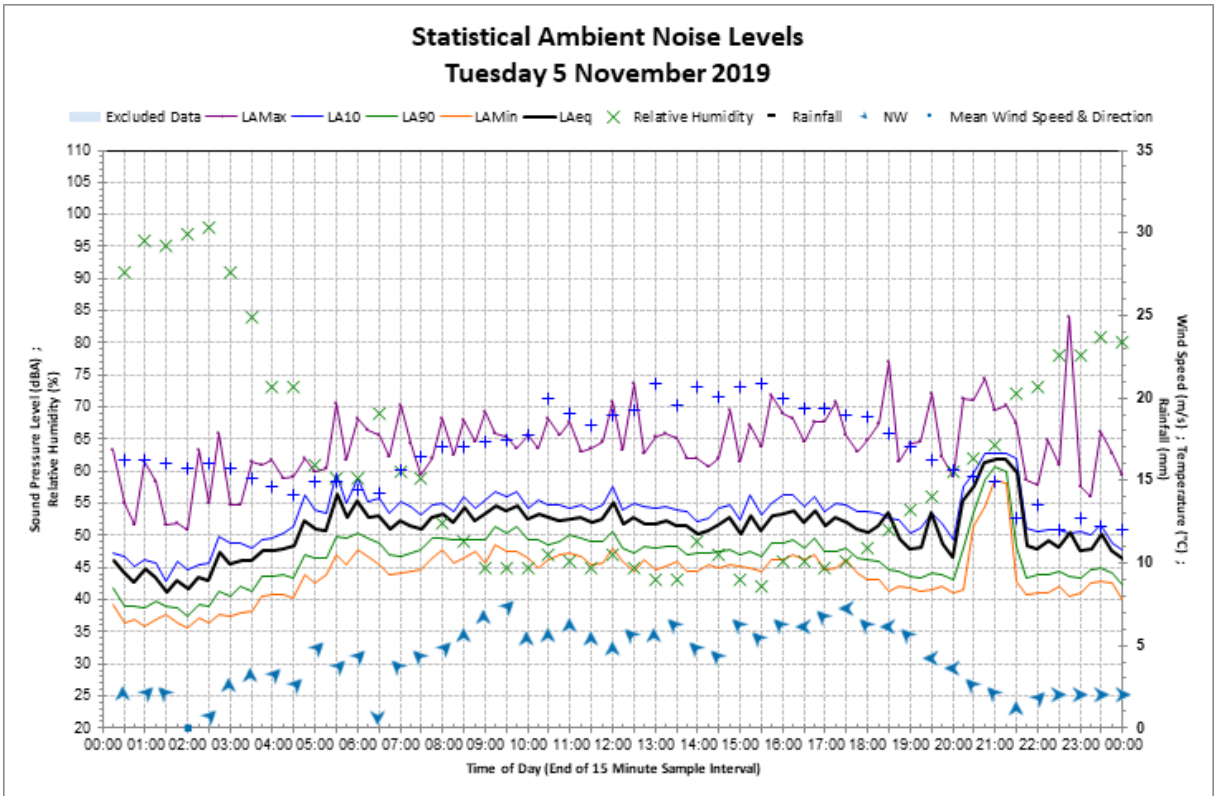
# **Appendix C** – Noise monitoring charts

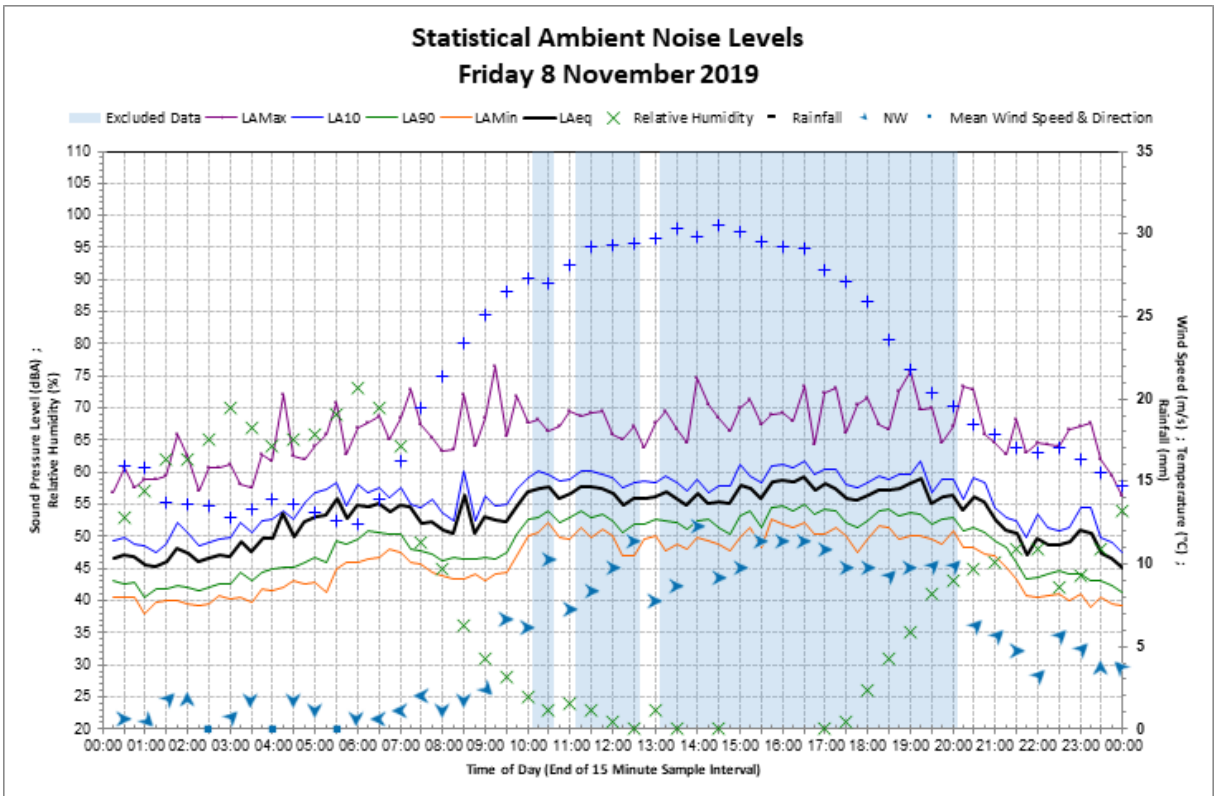
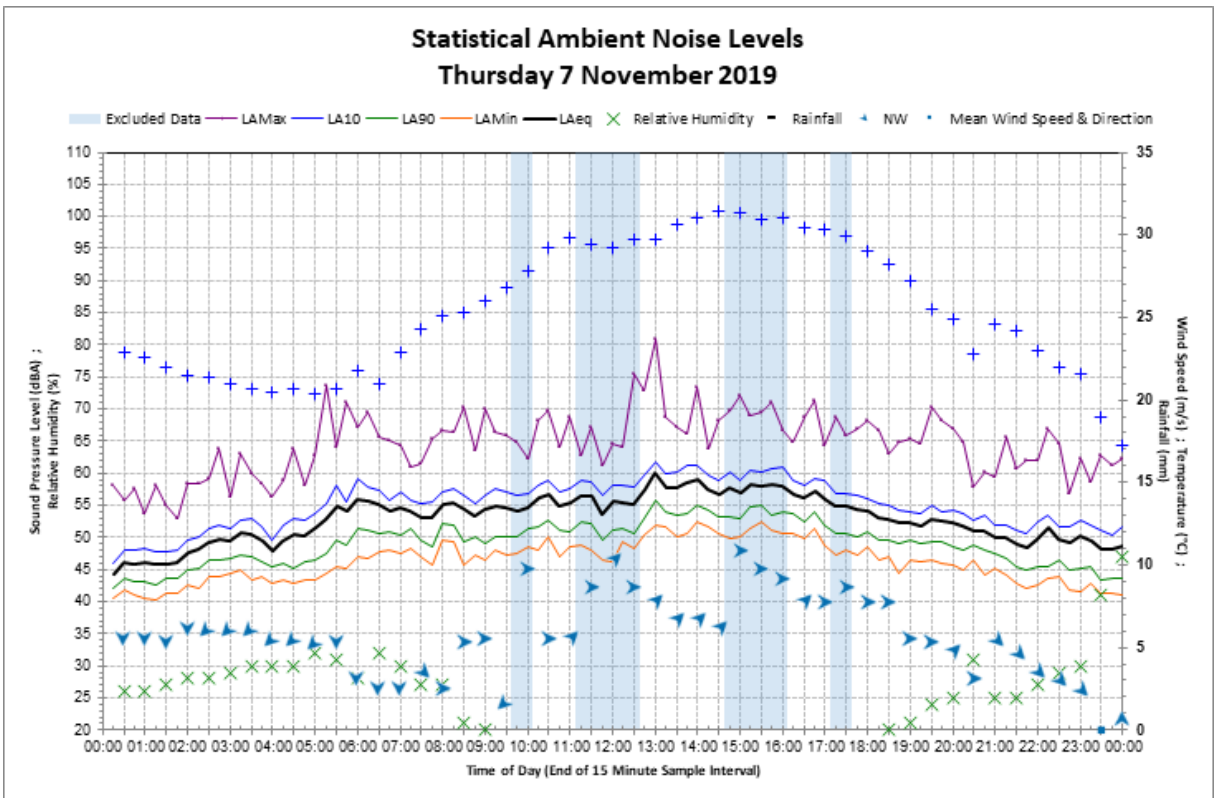
**M1 – 35 Townson Road, Marsden Park**

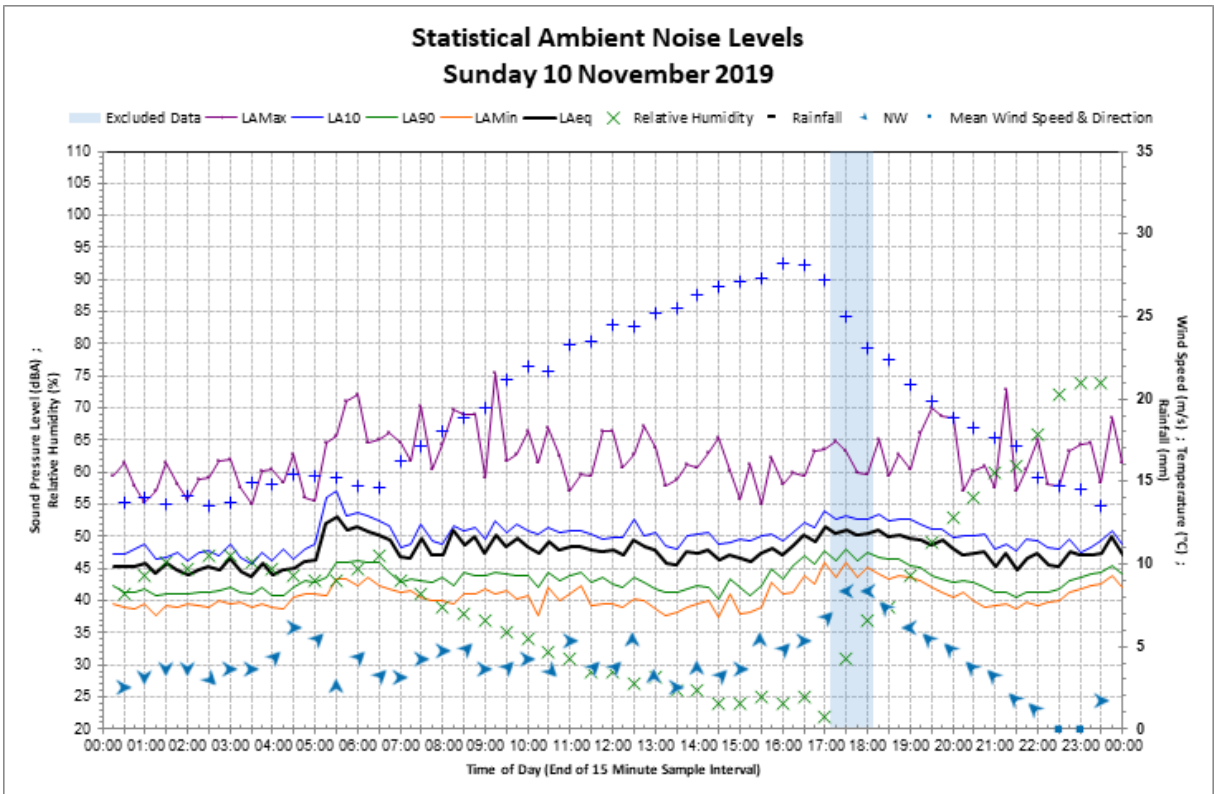
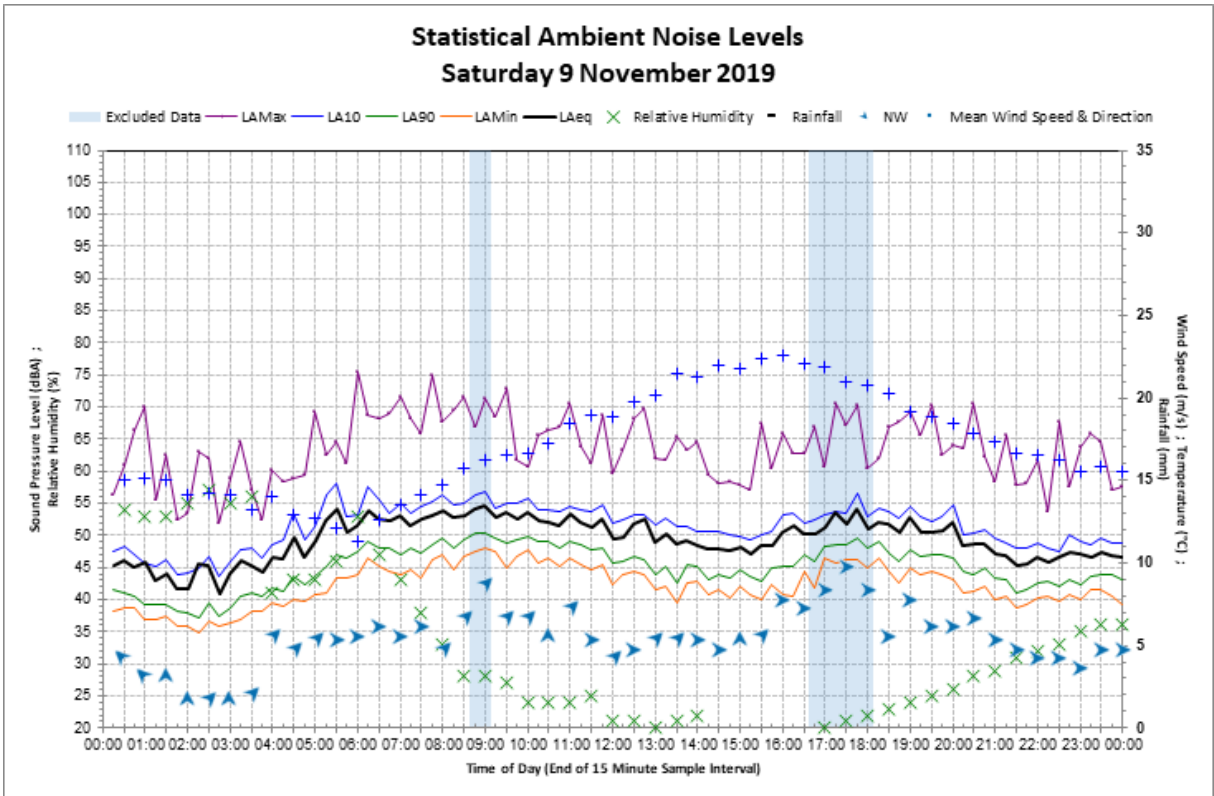






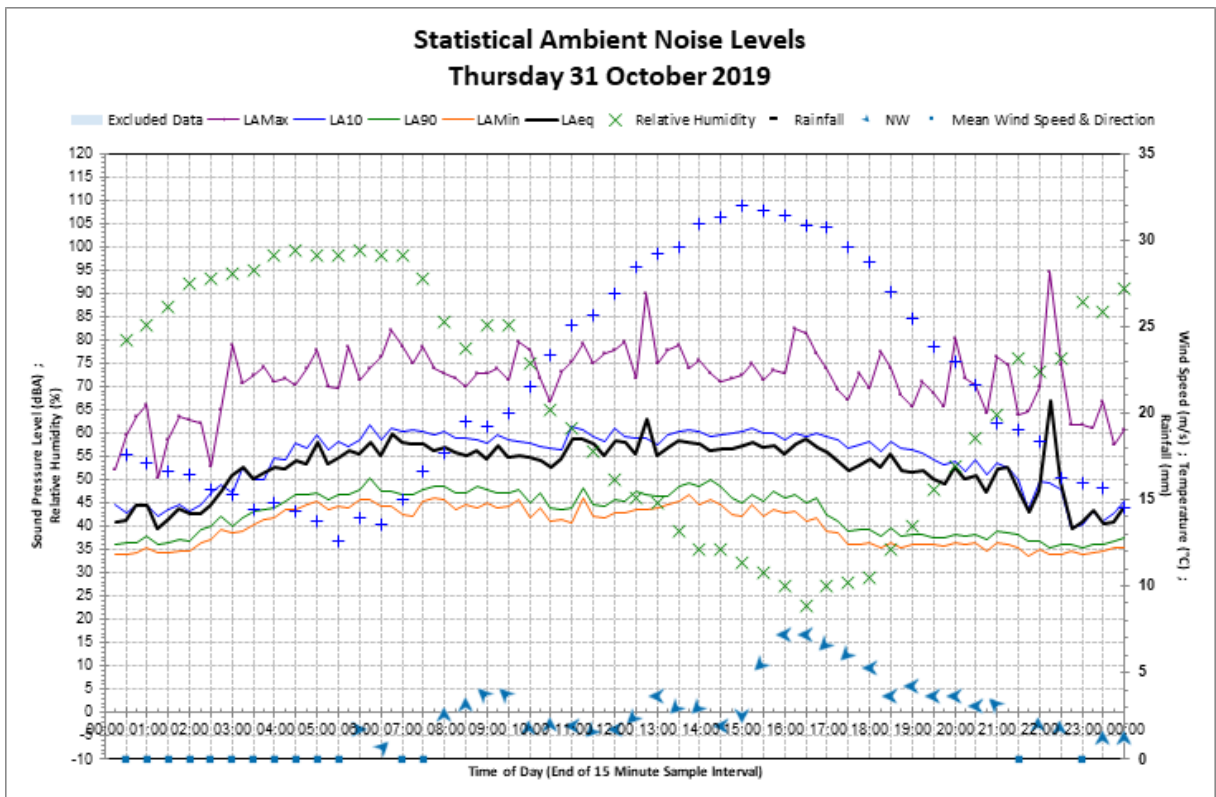
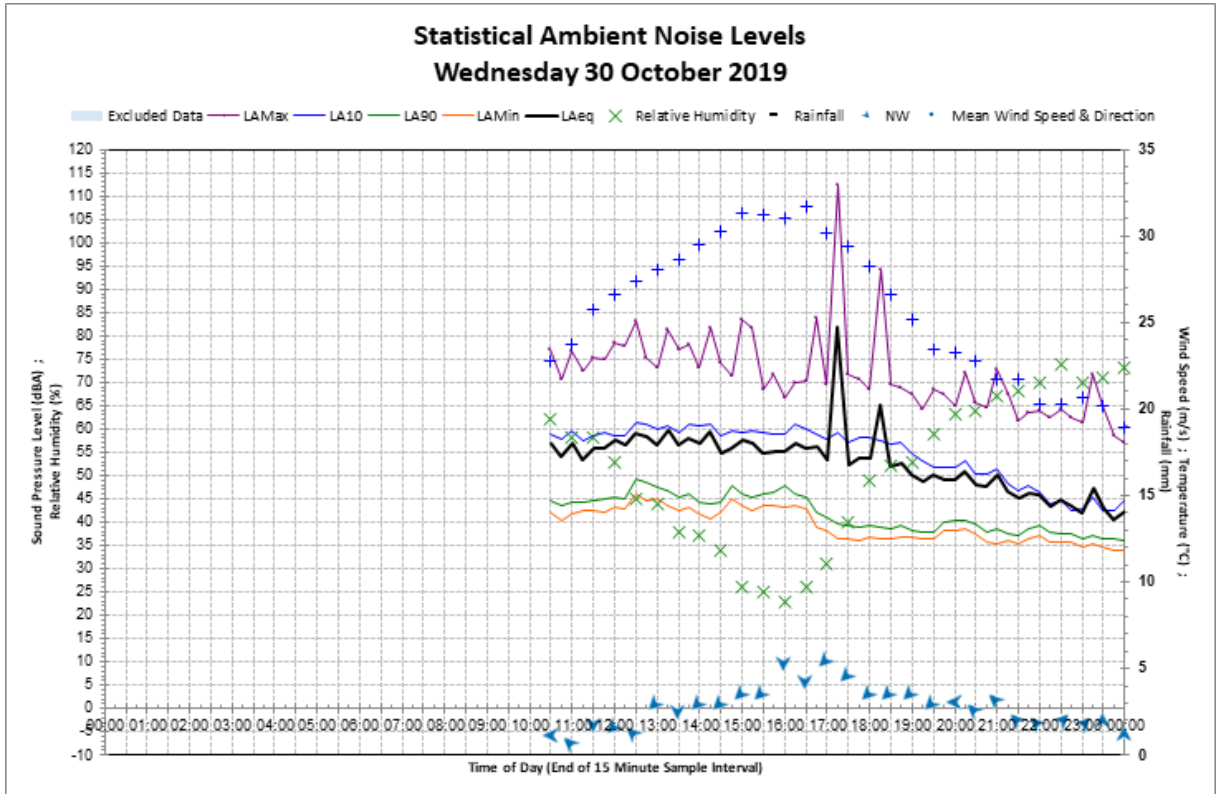


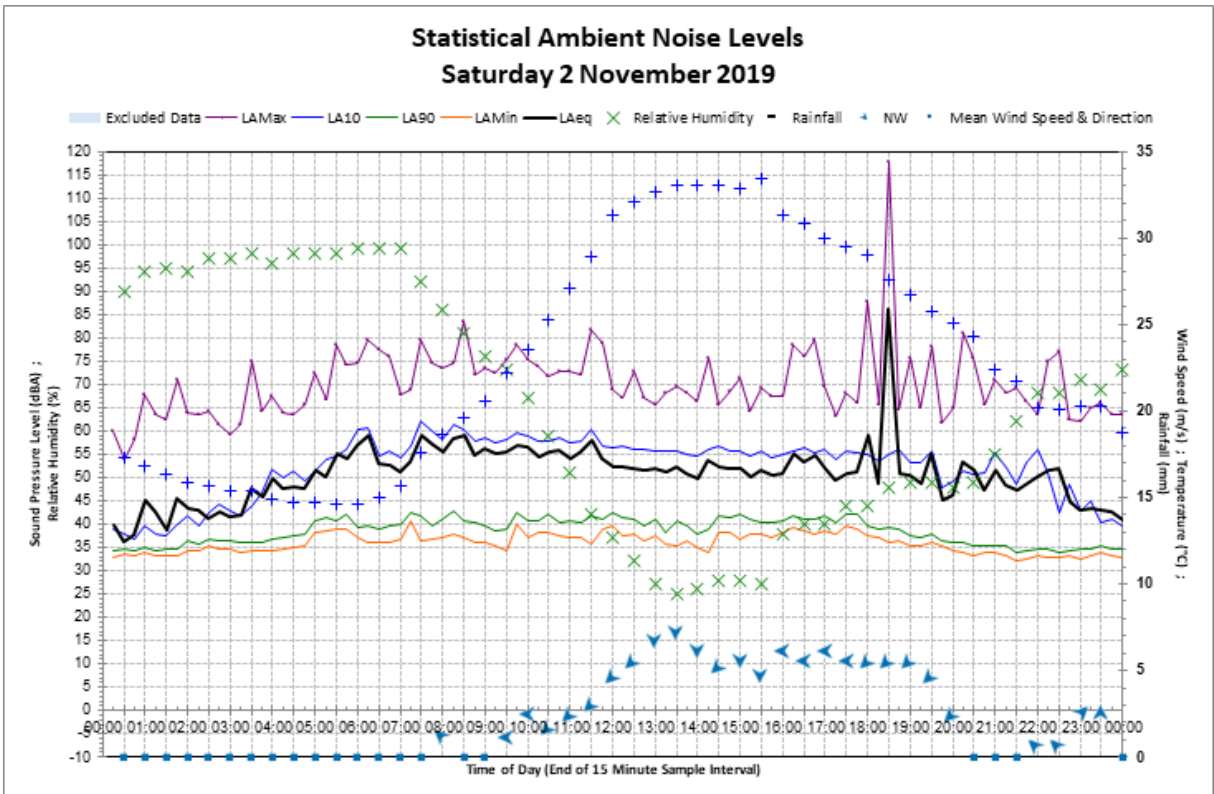
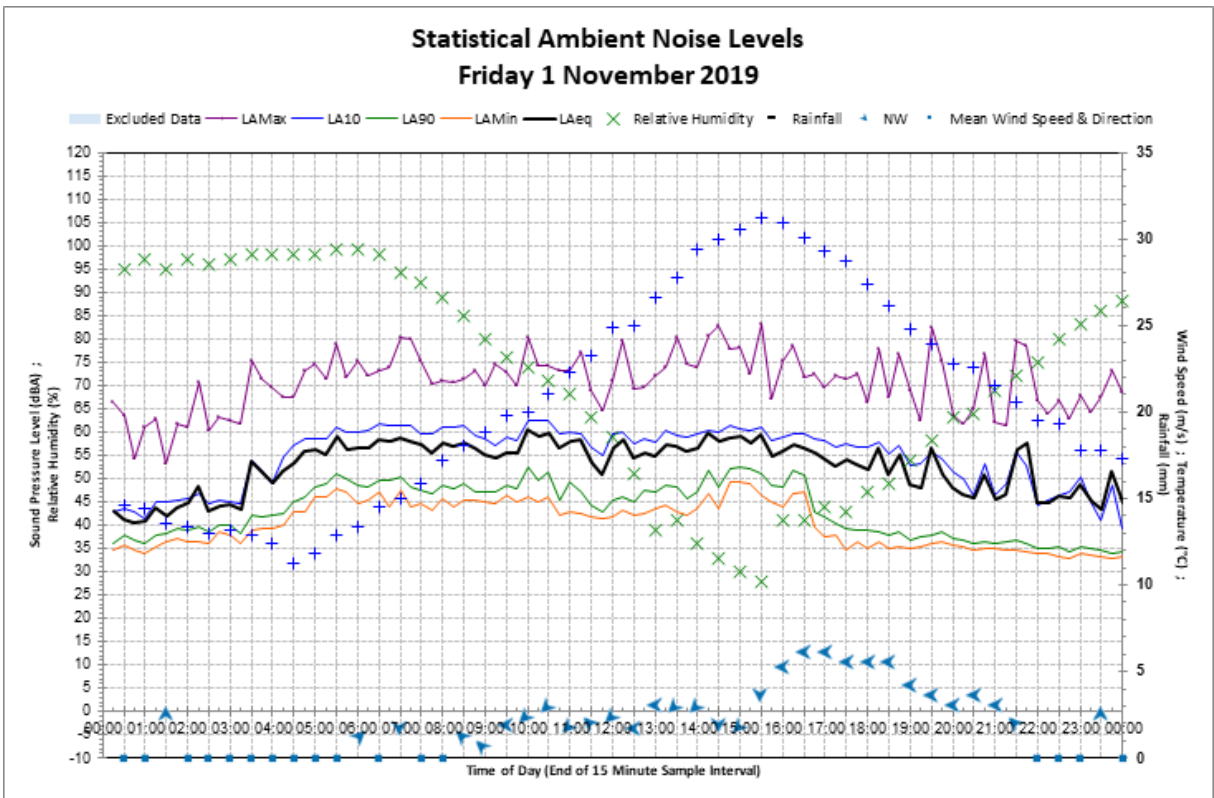


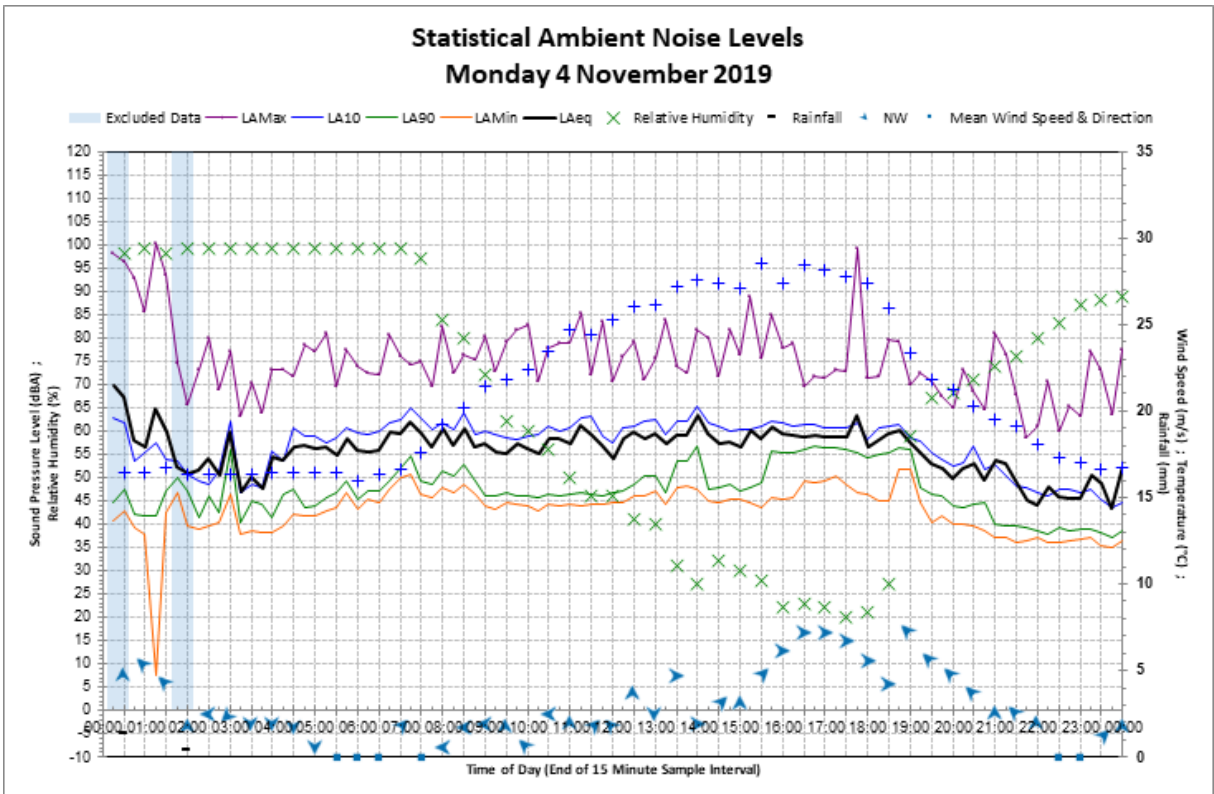
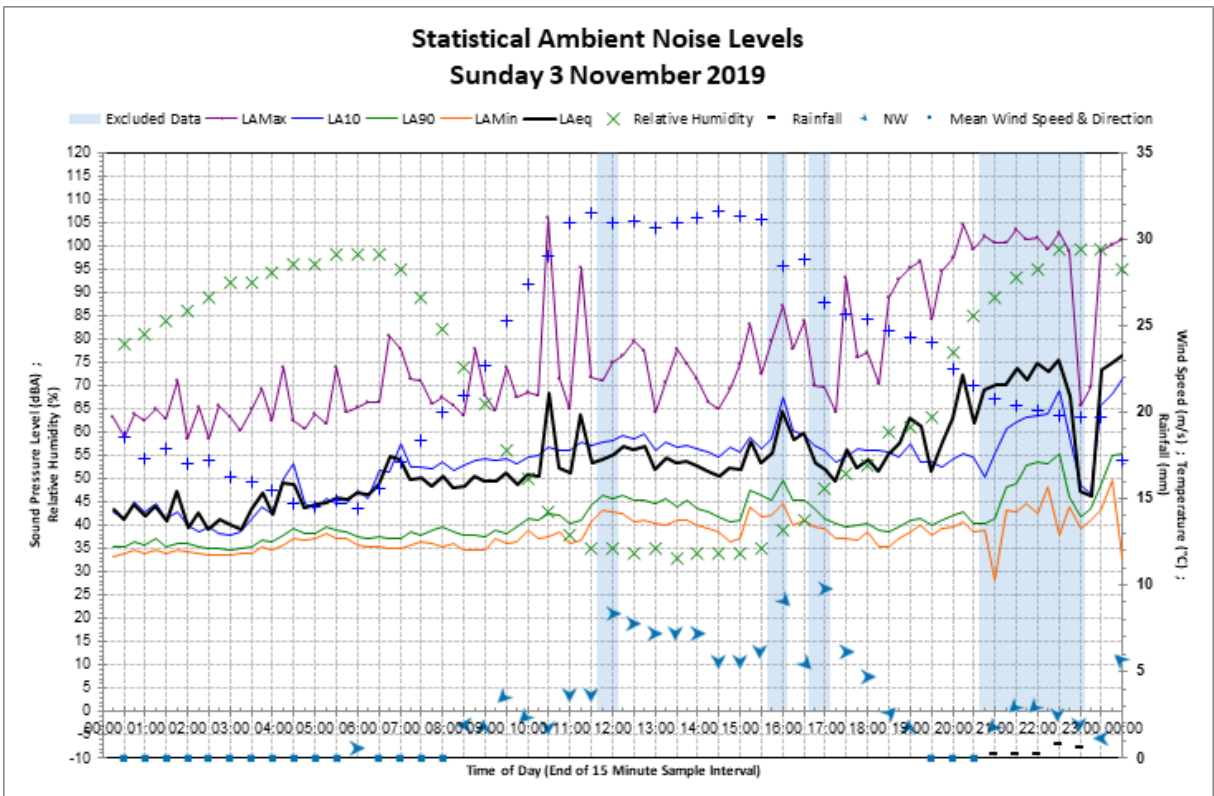


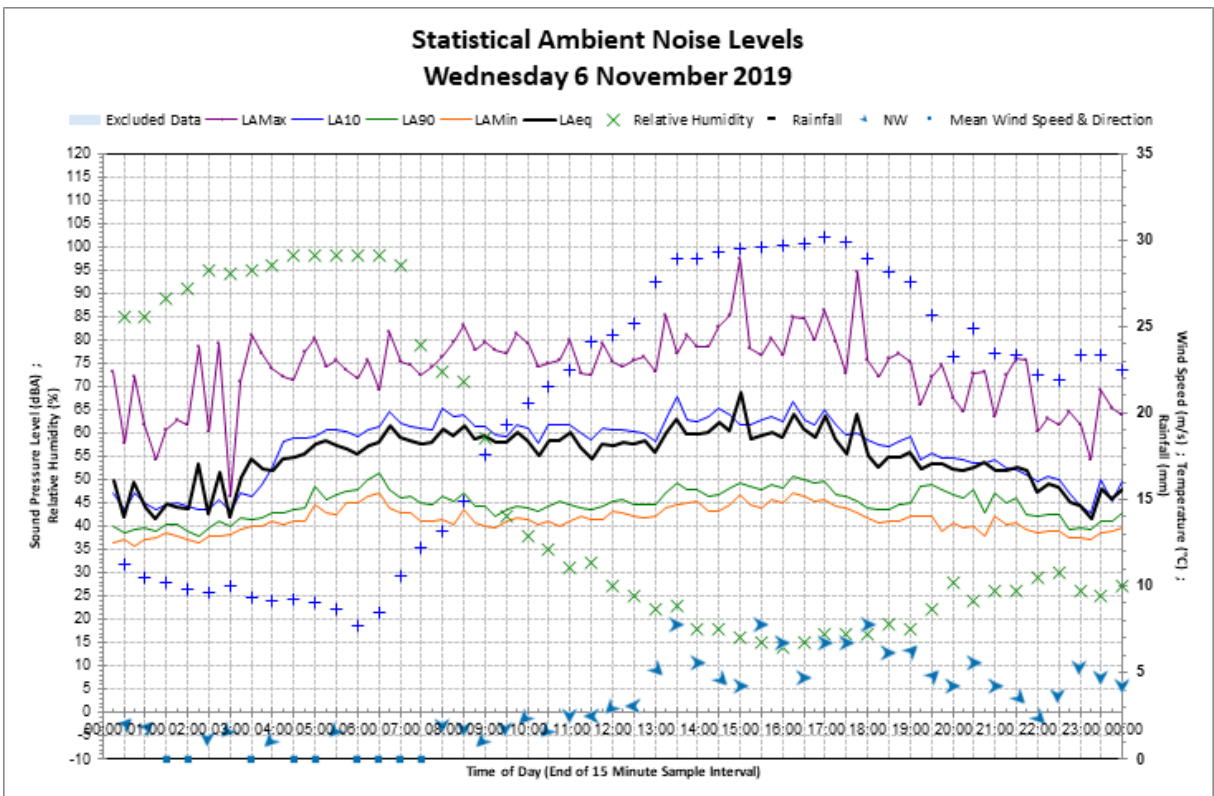
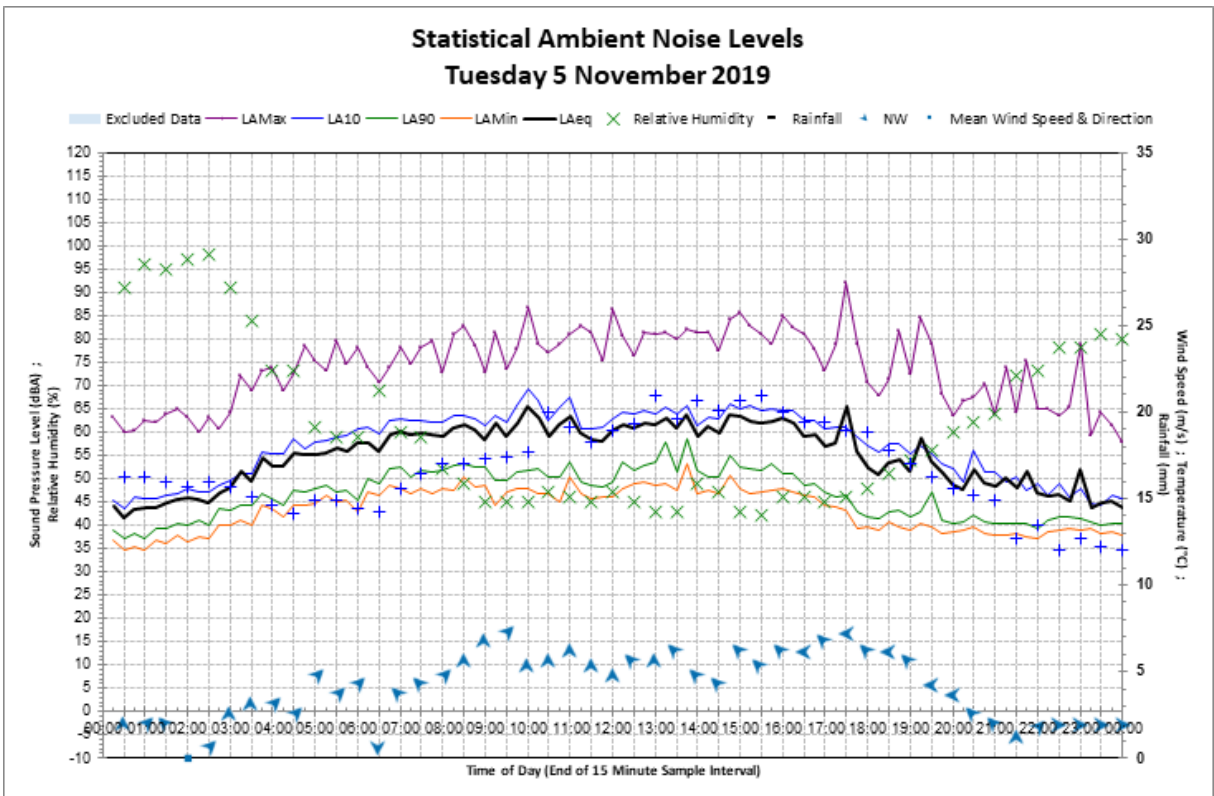


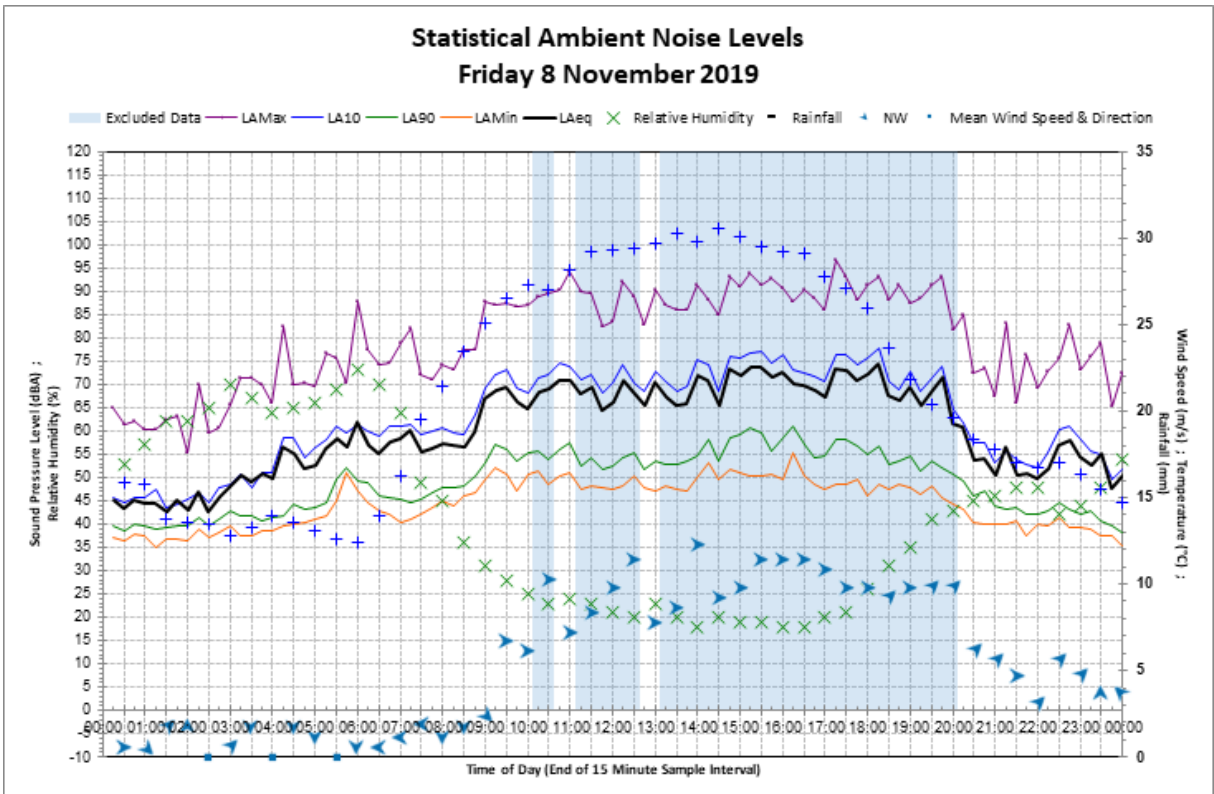
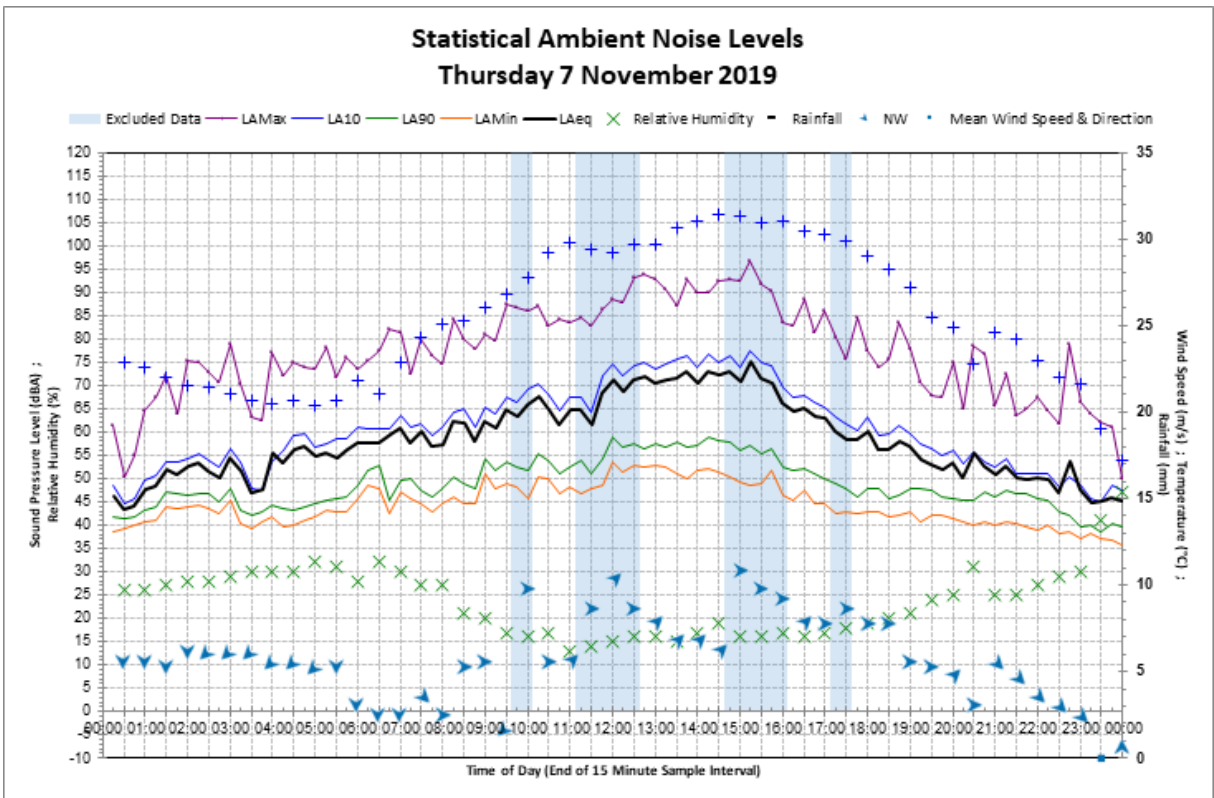
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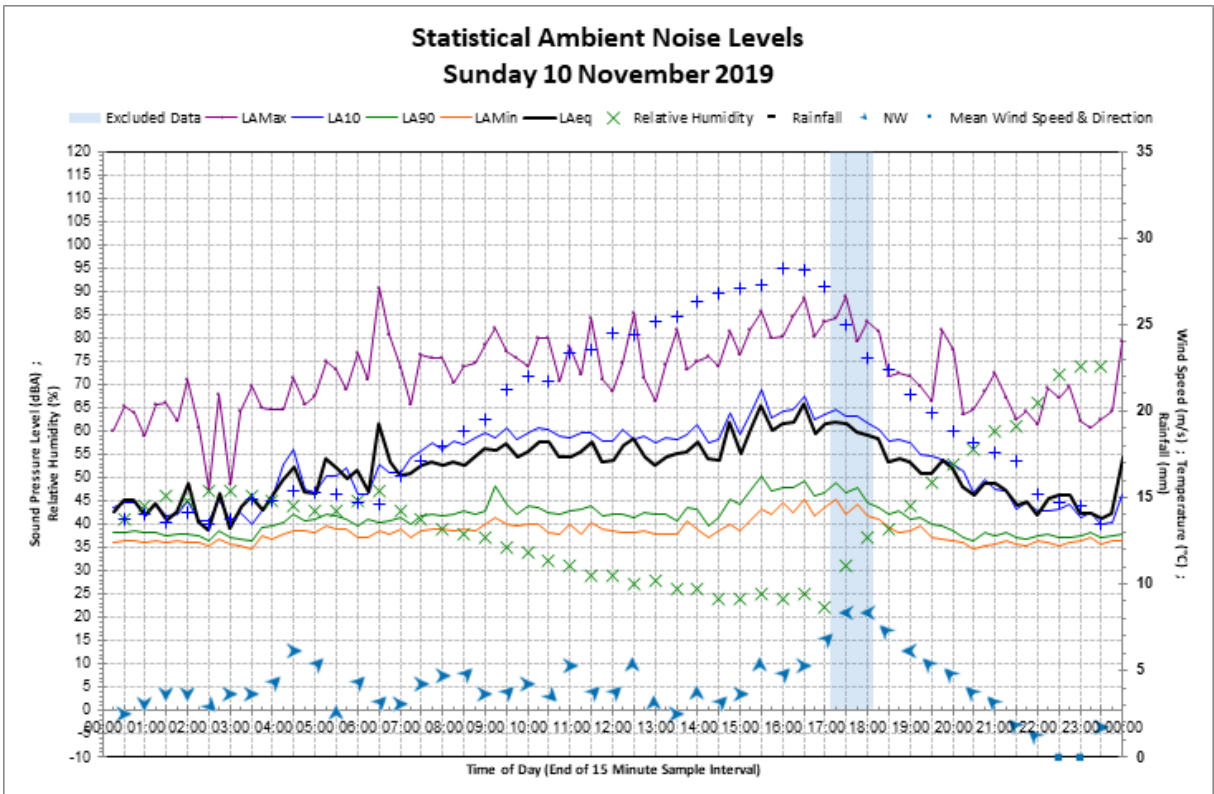
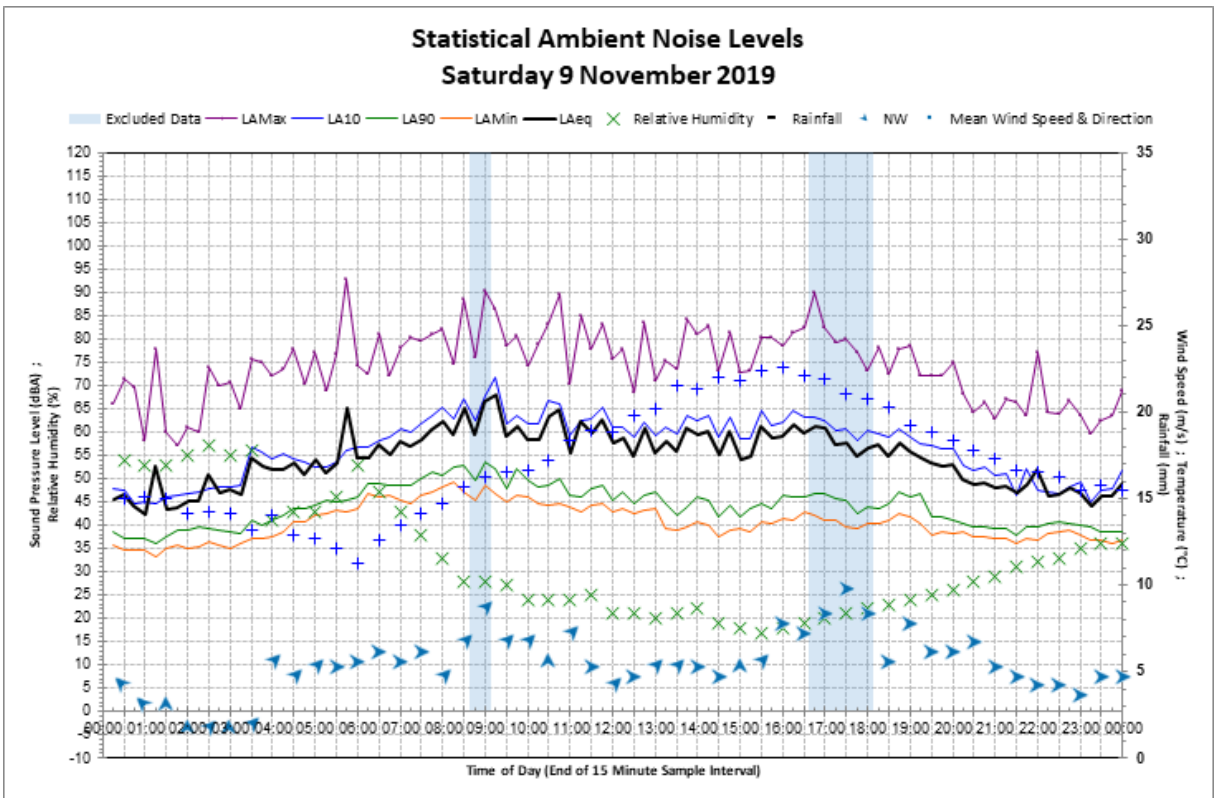




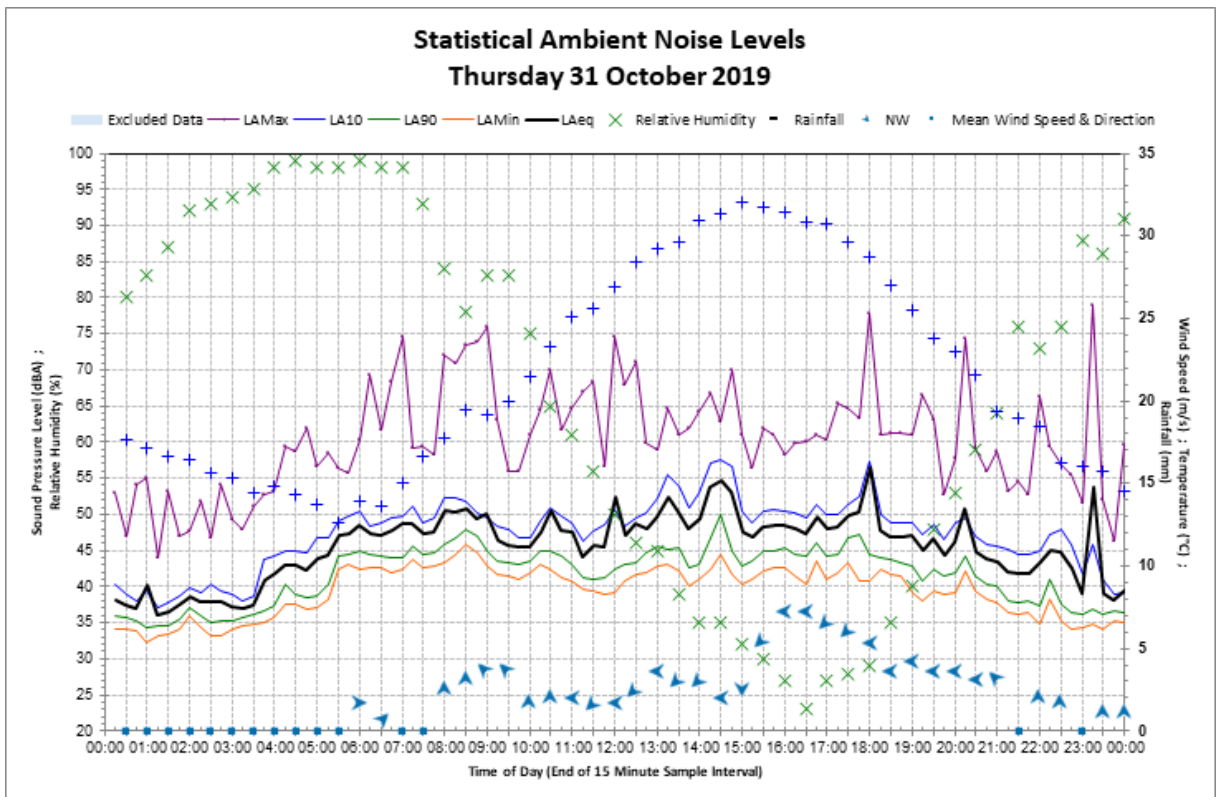
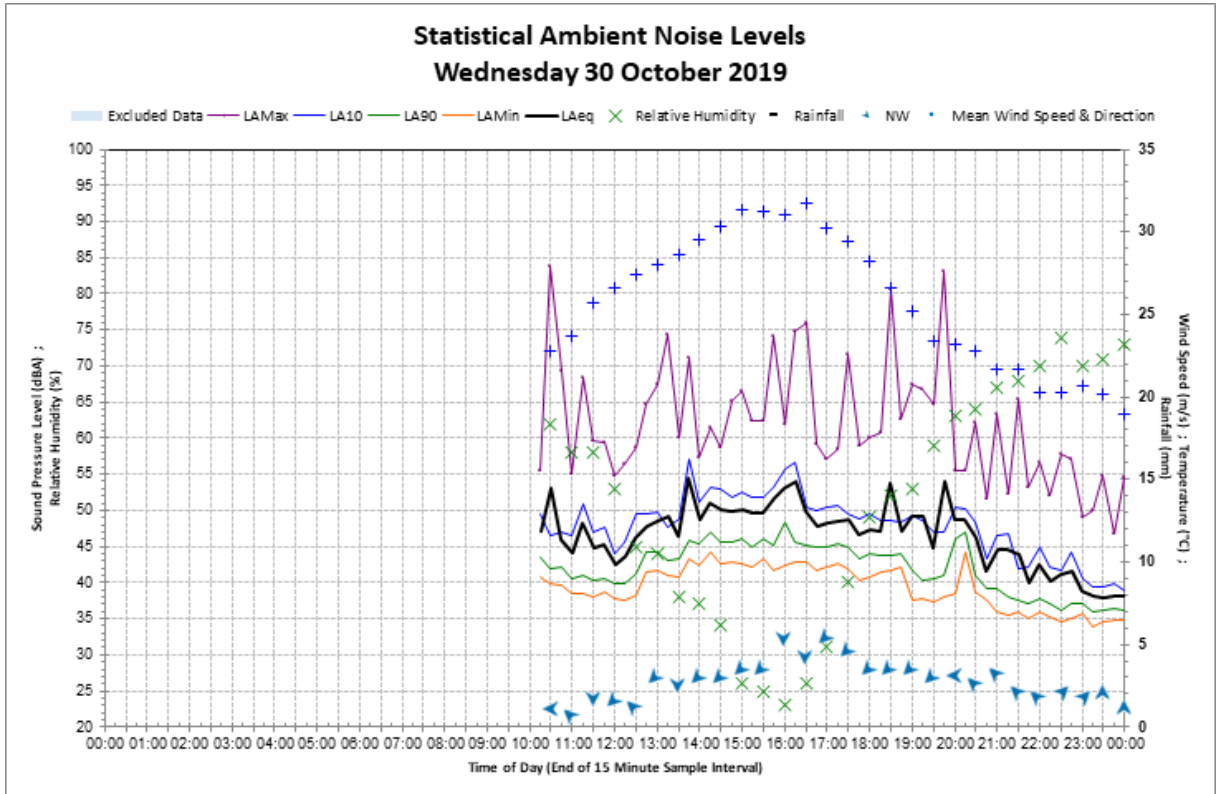


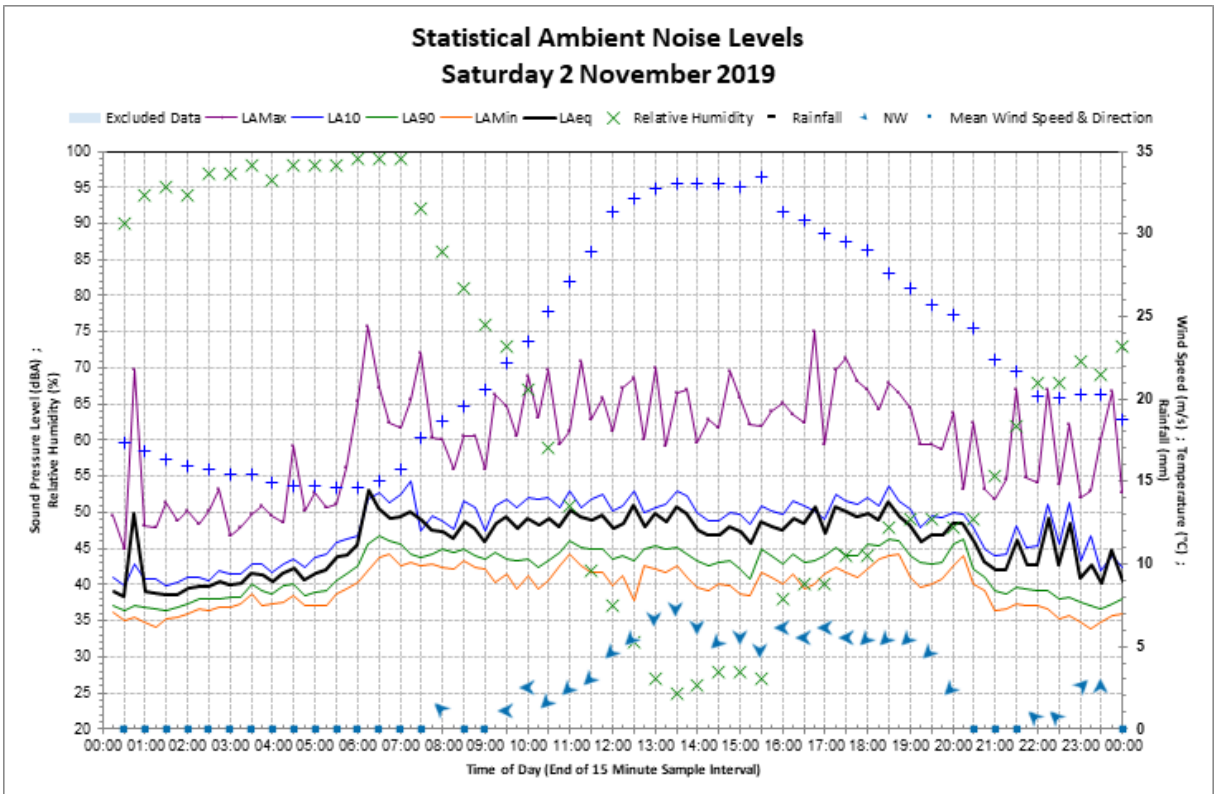
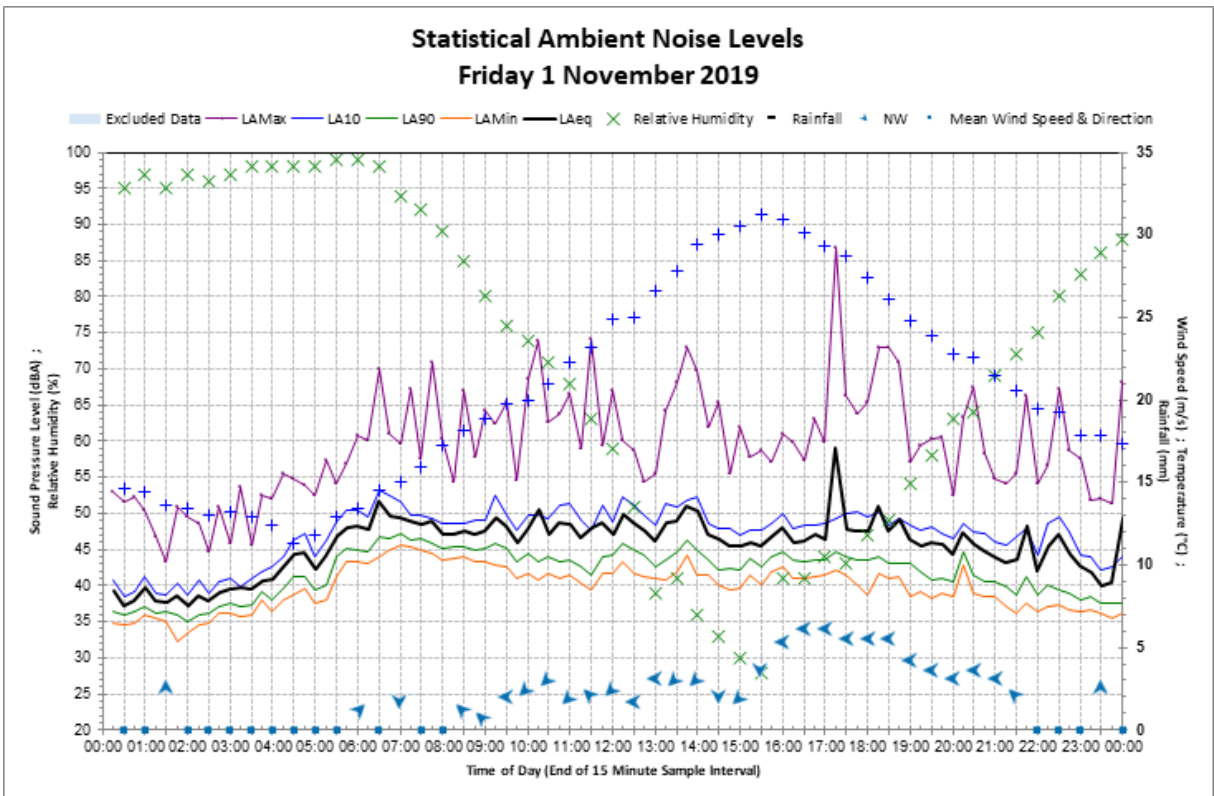




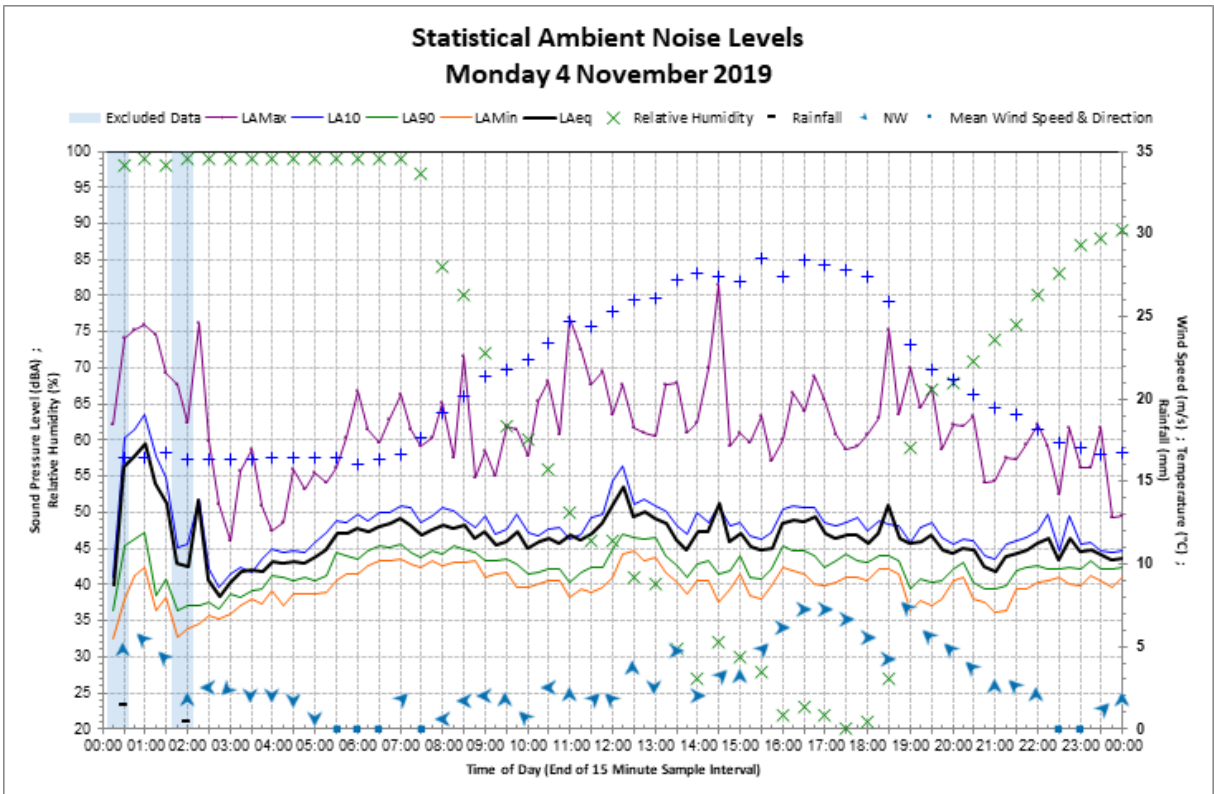
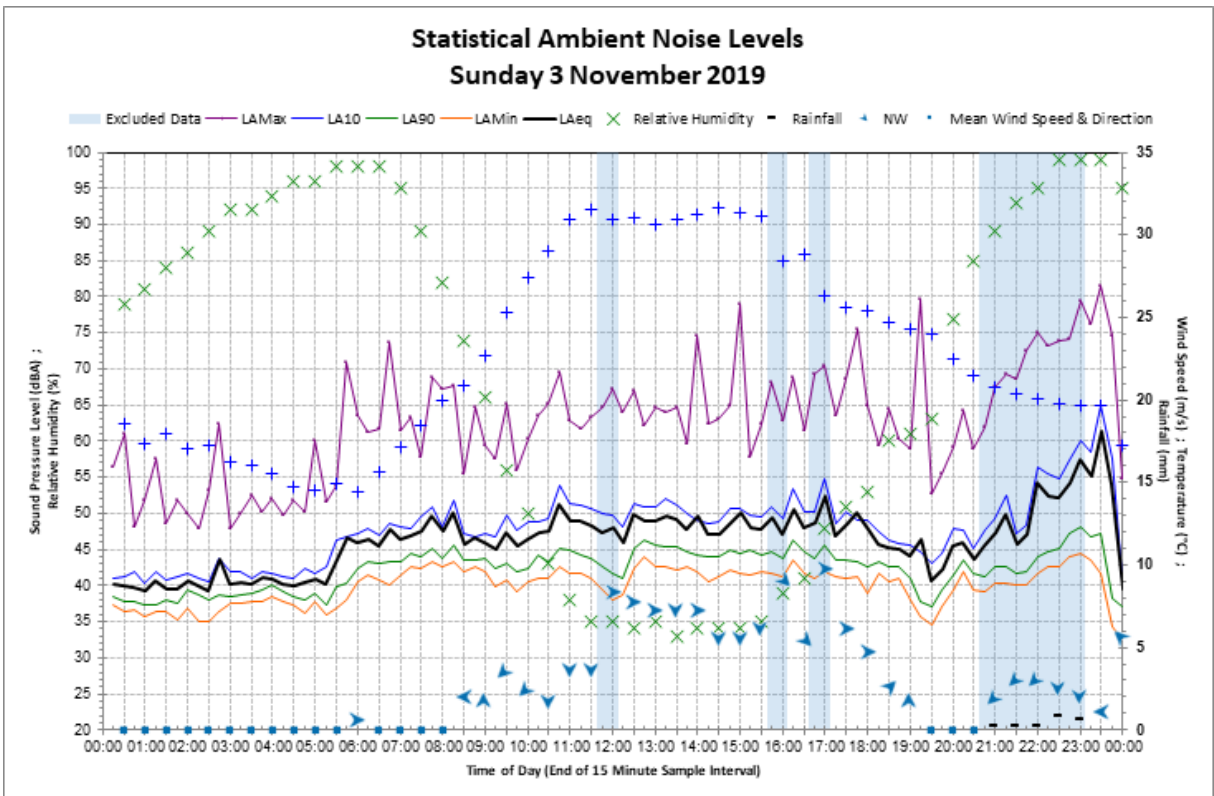


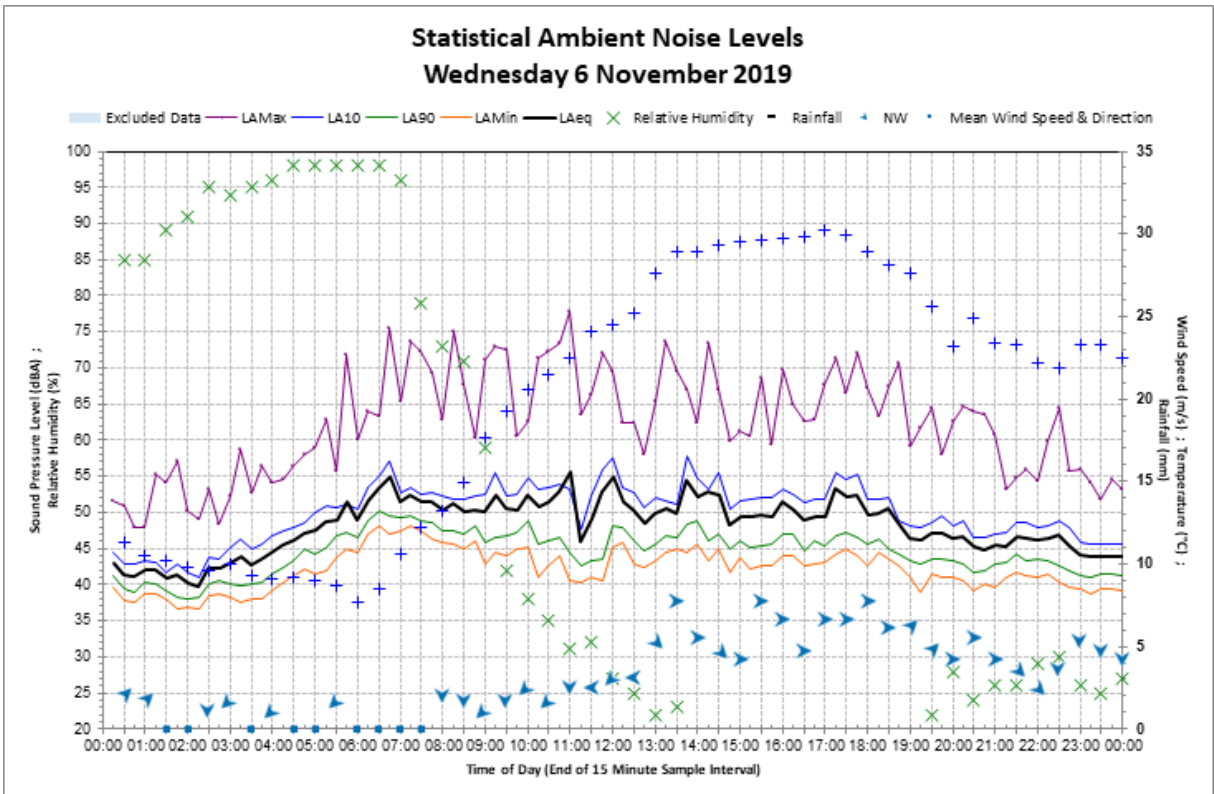
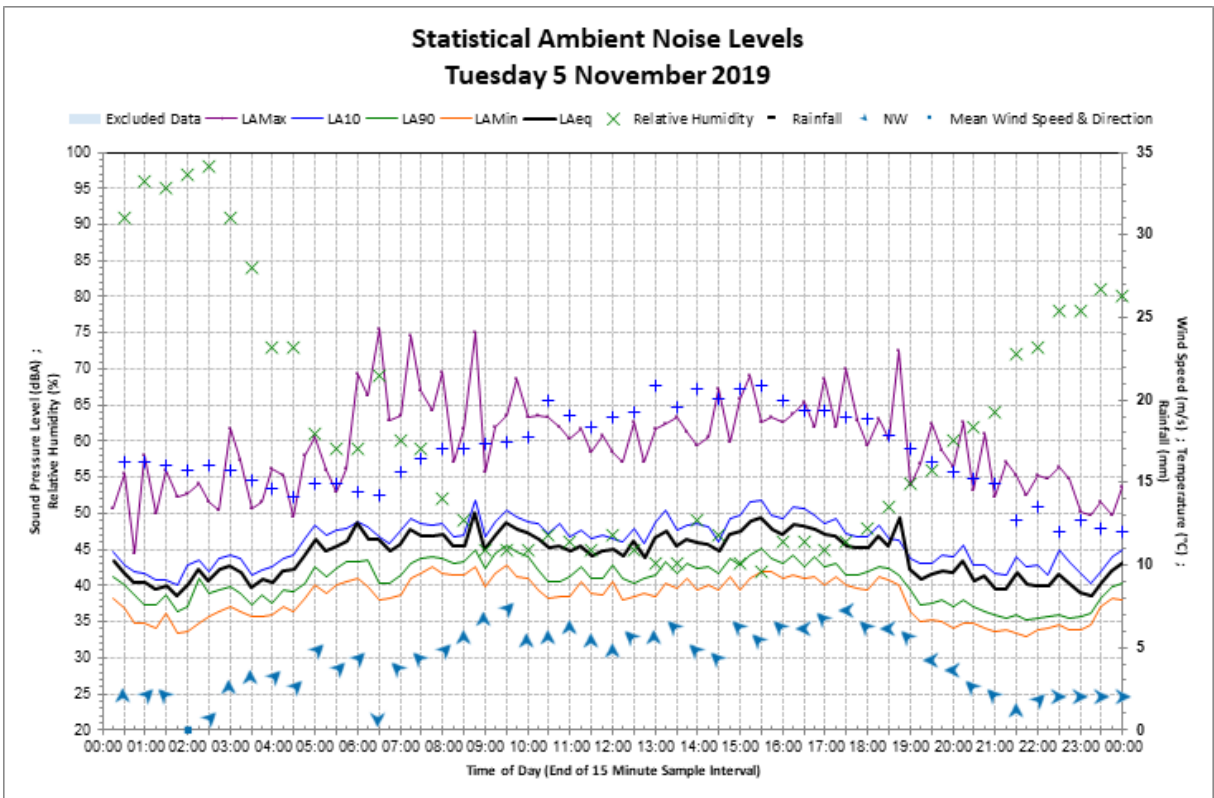
**M3 – 66 Sunningdale Drive, Colobee**

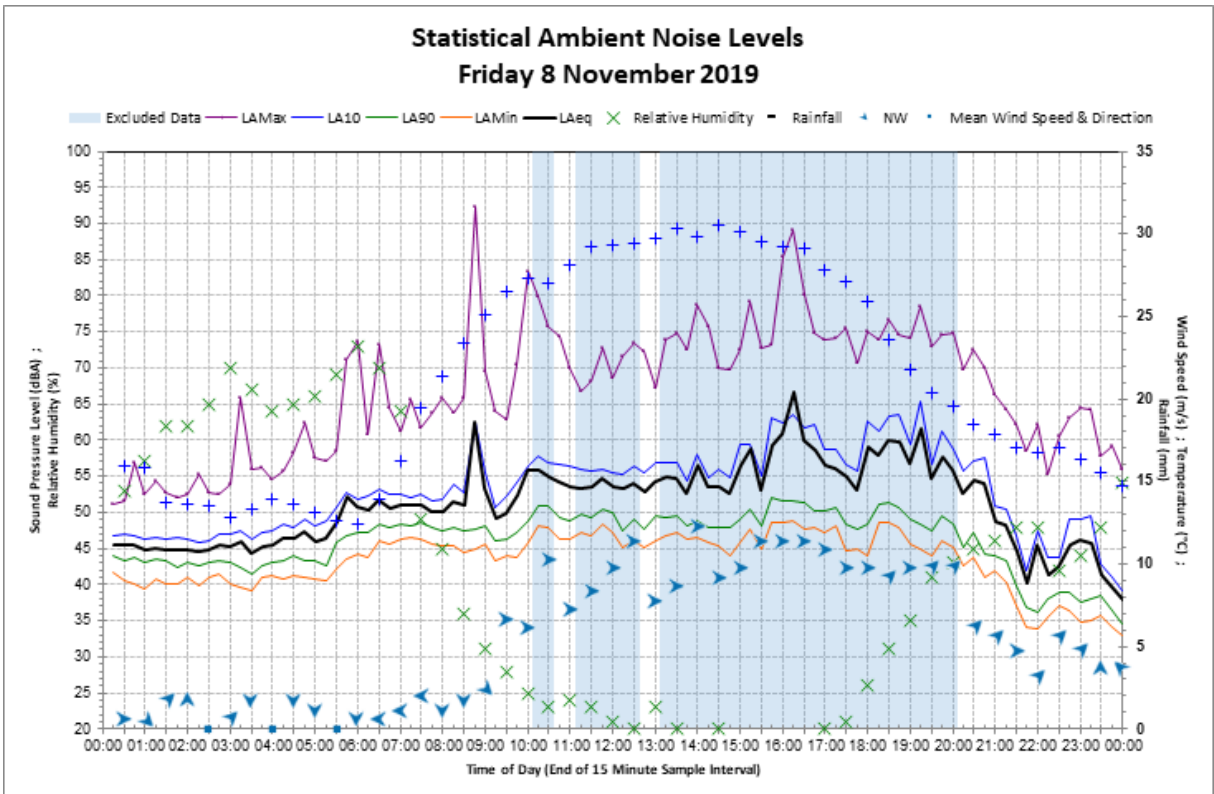
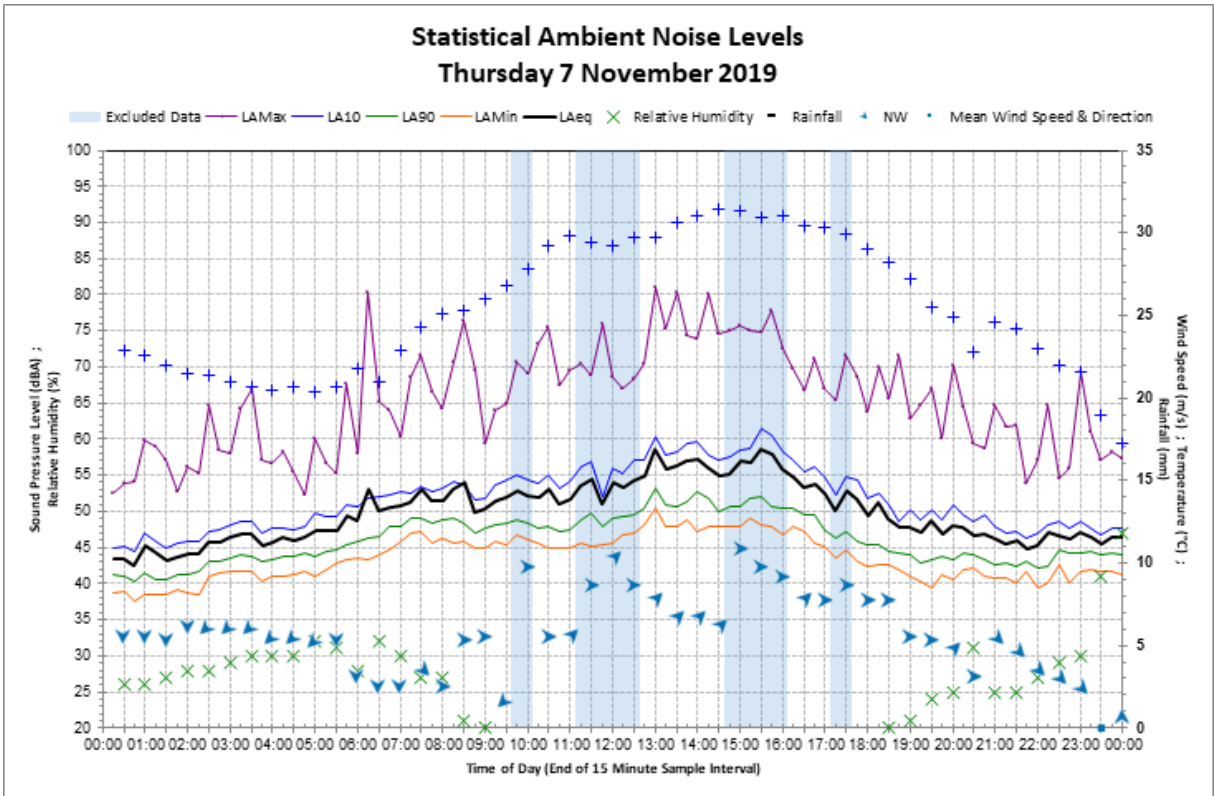


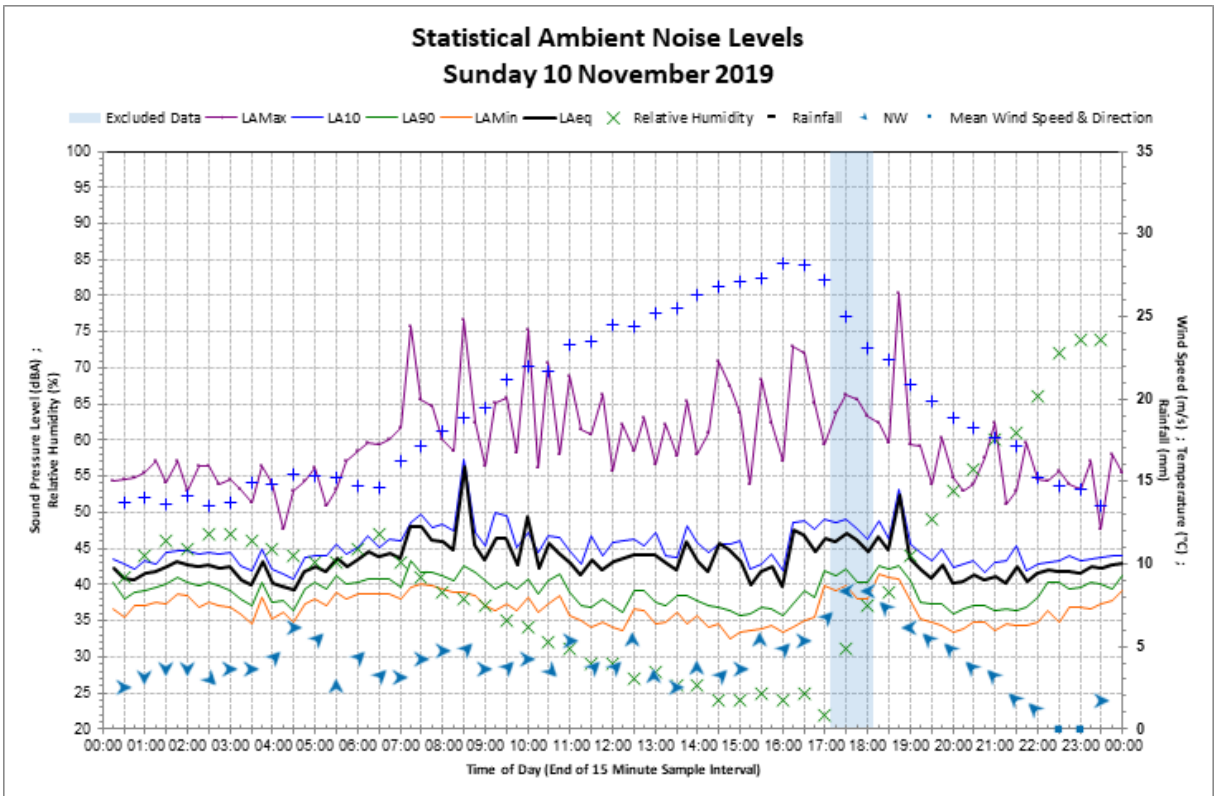
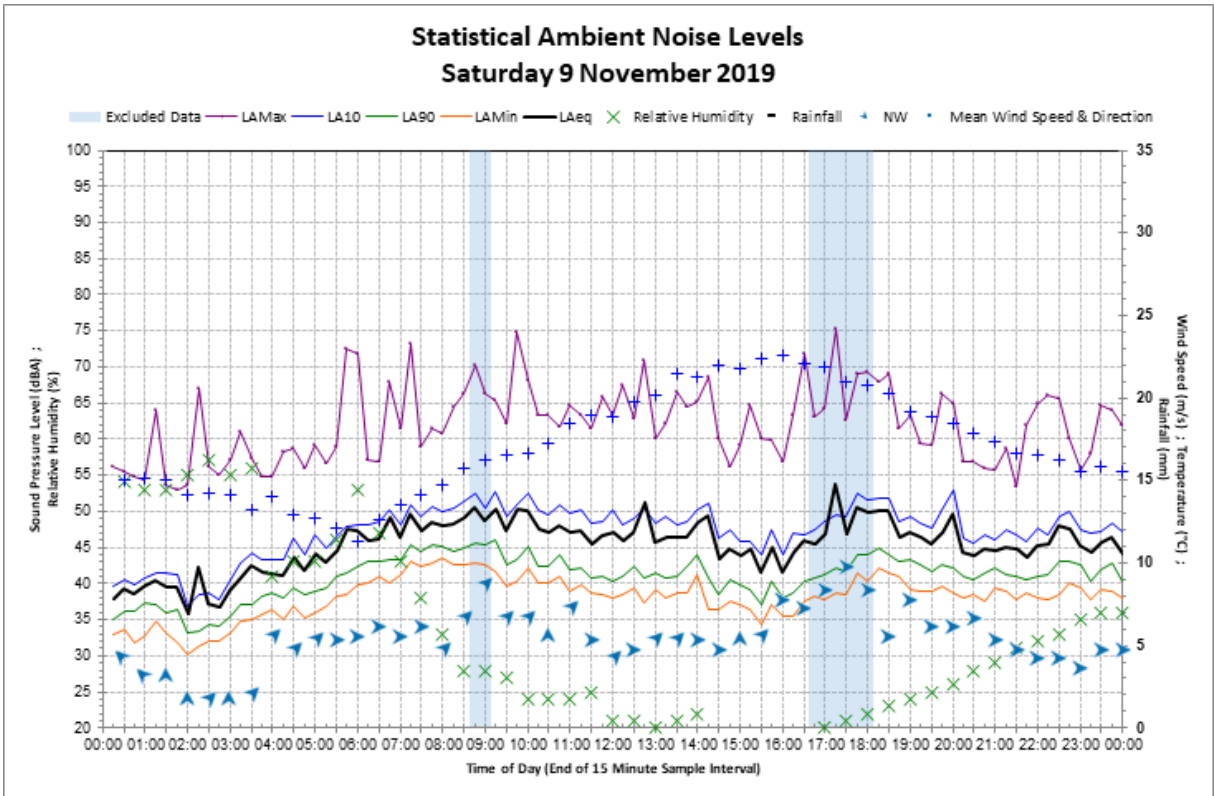




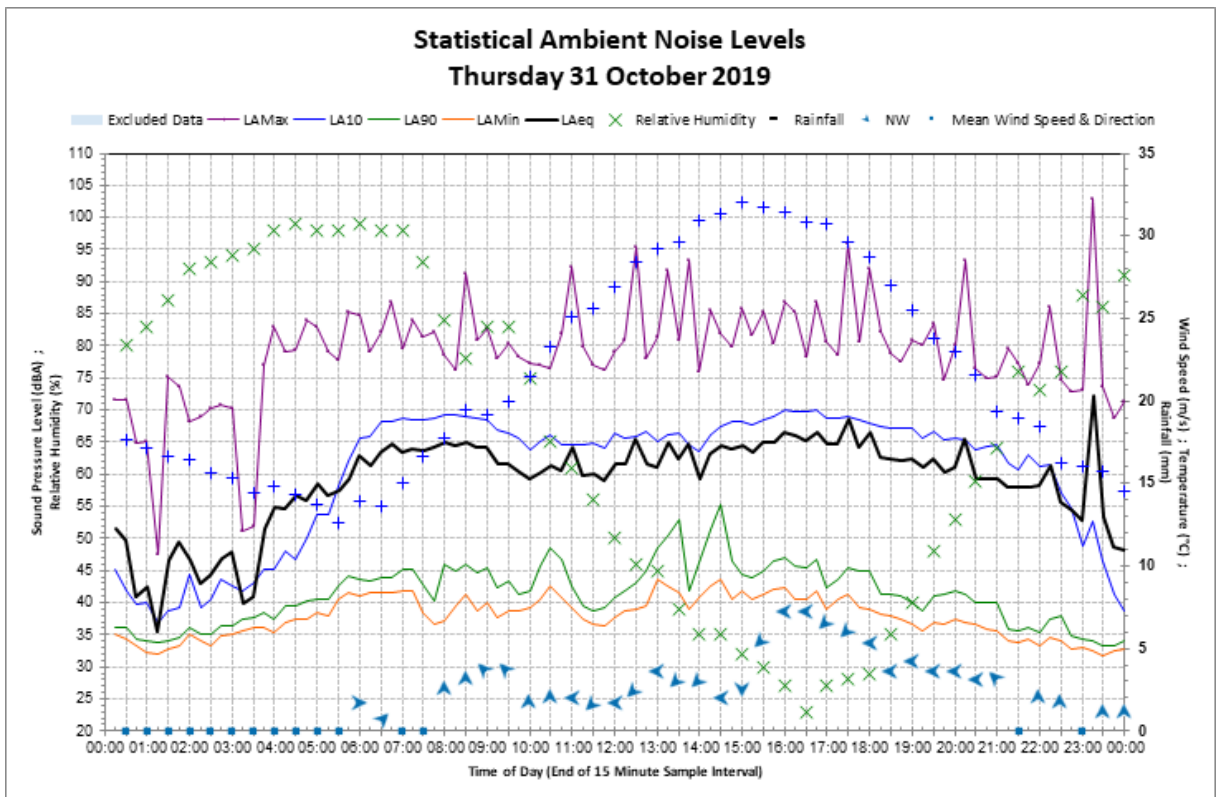
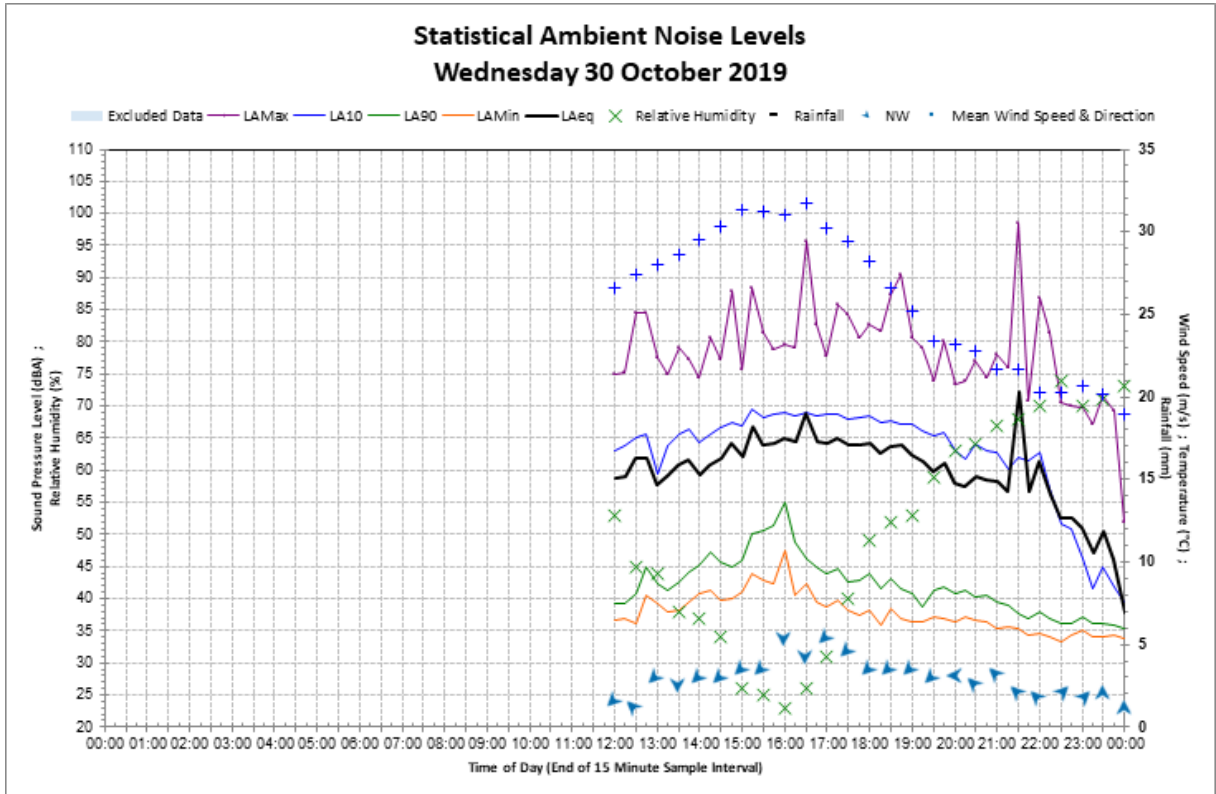


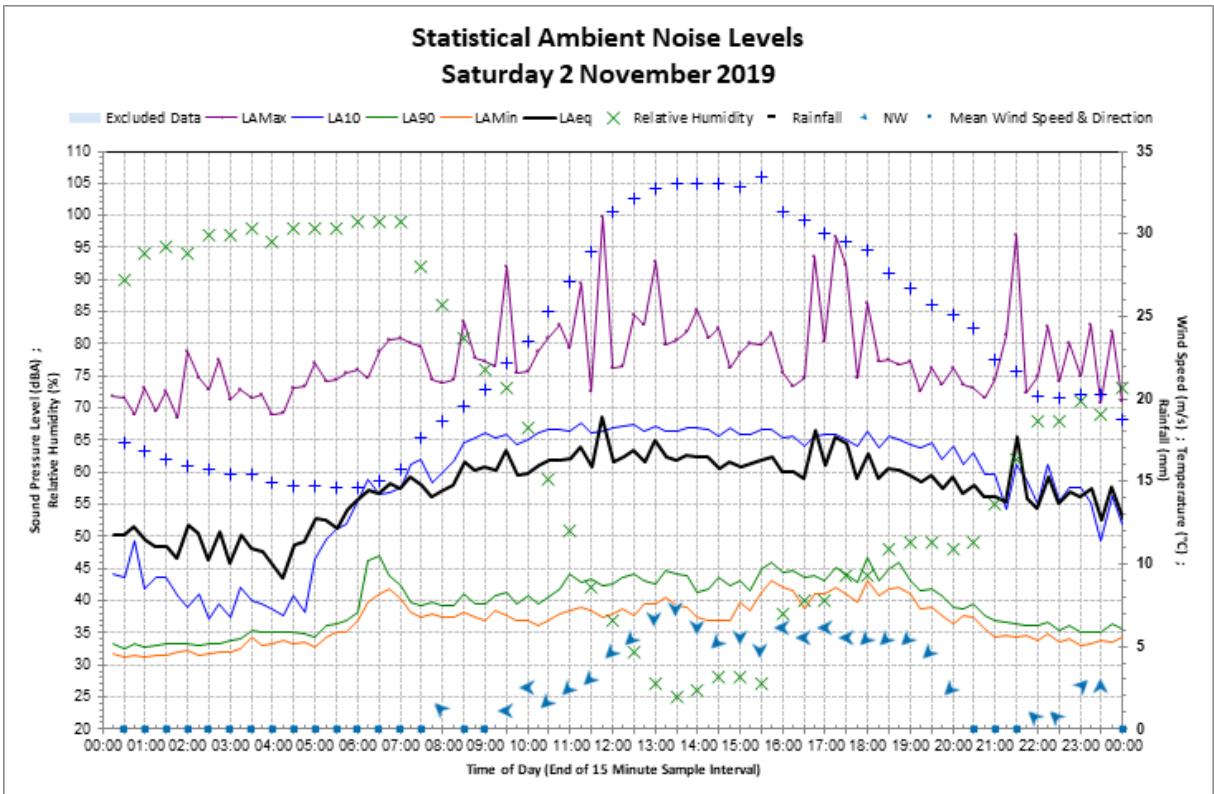
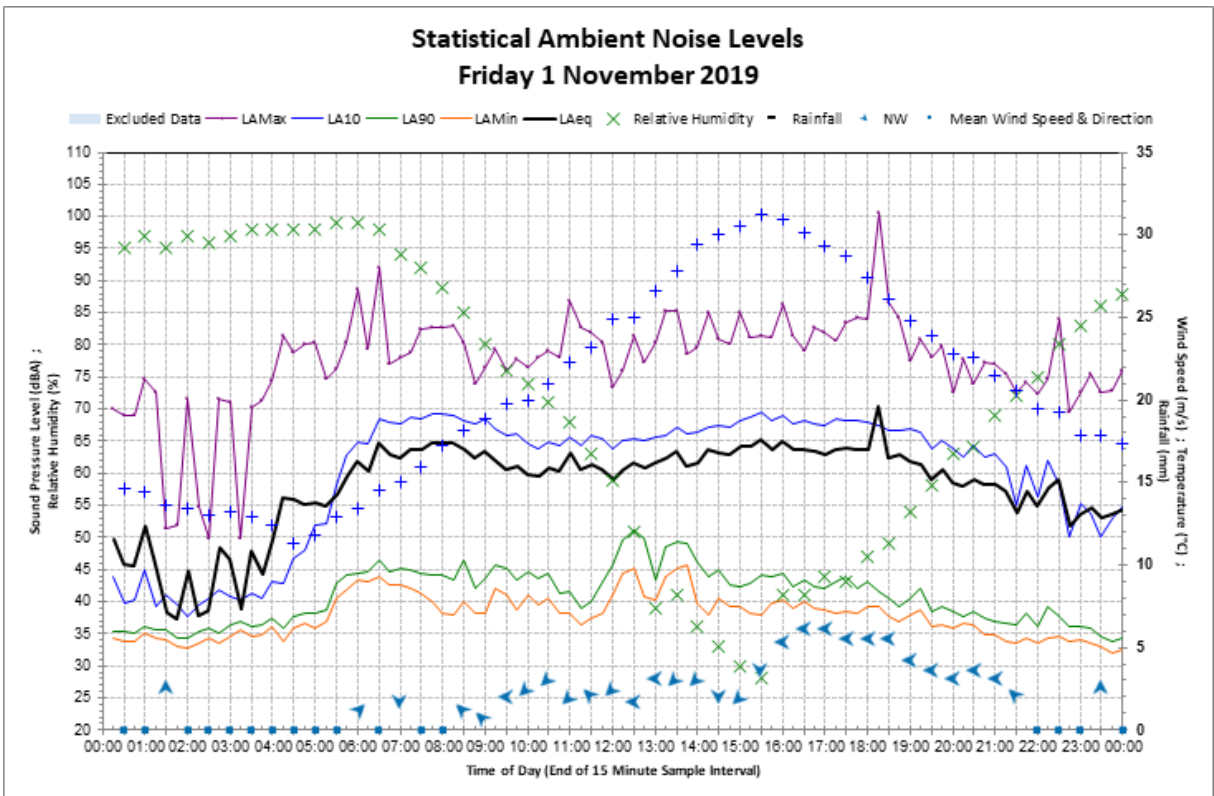


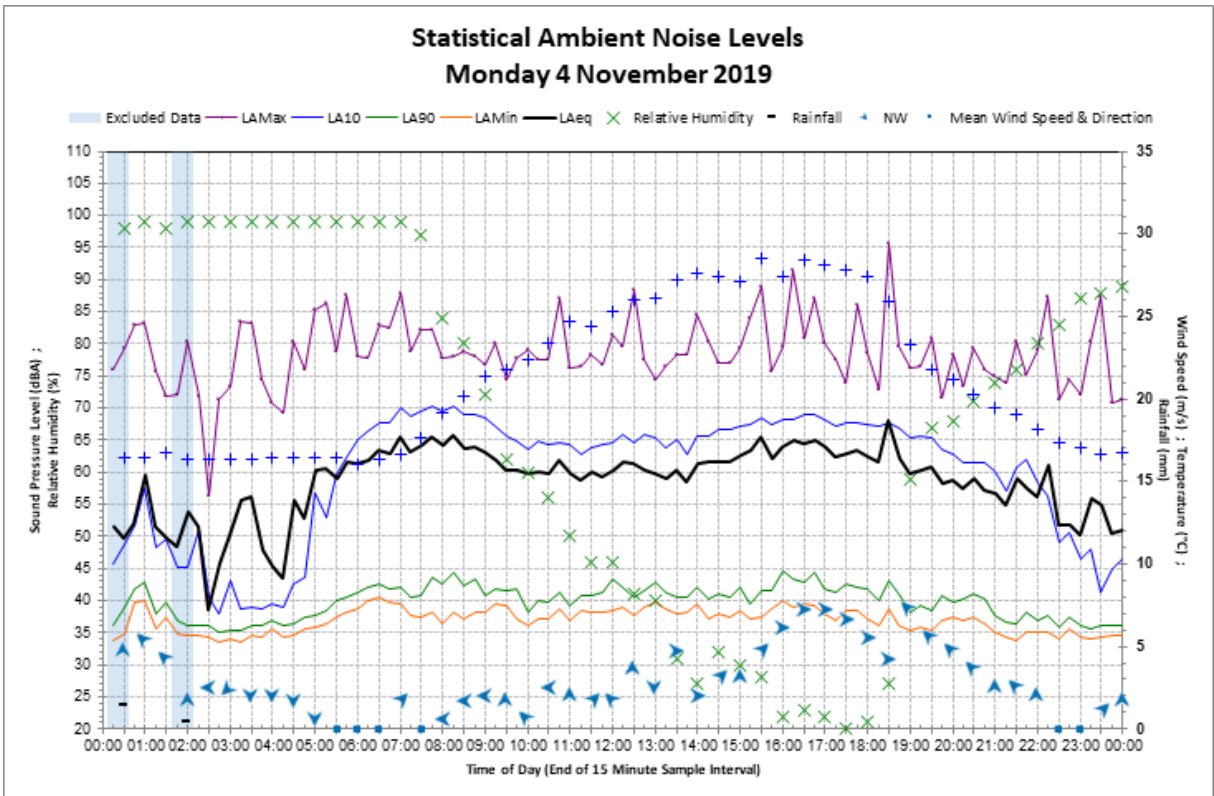
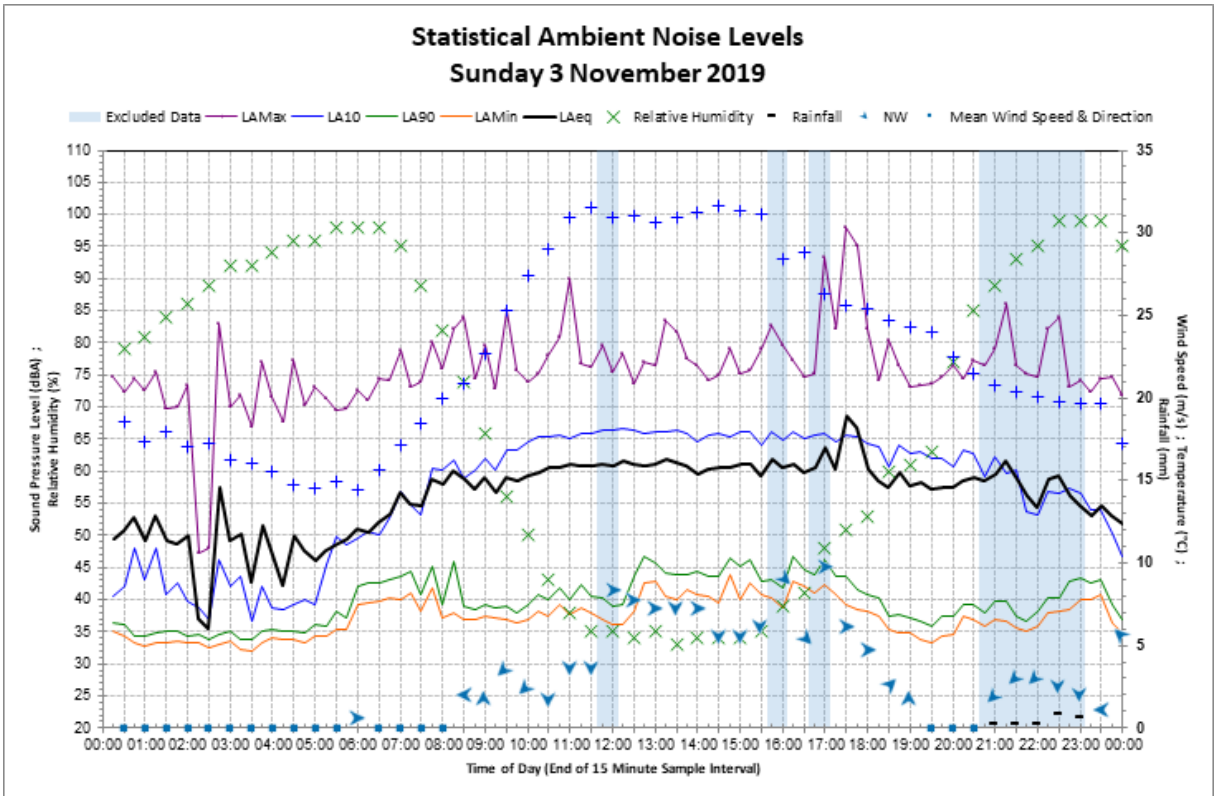


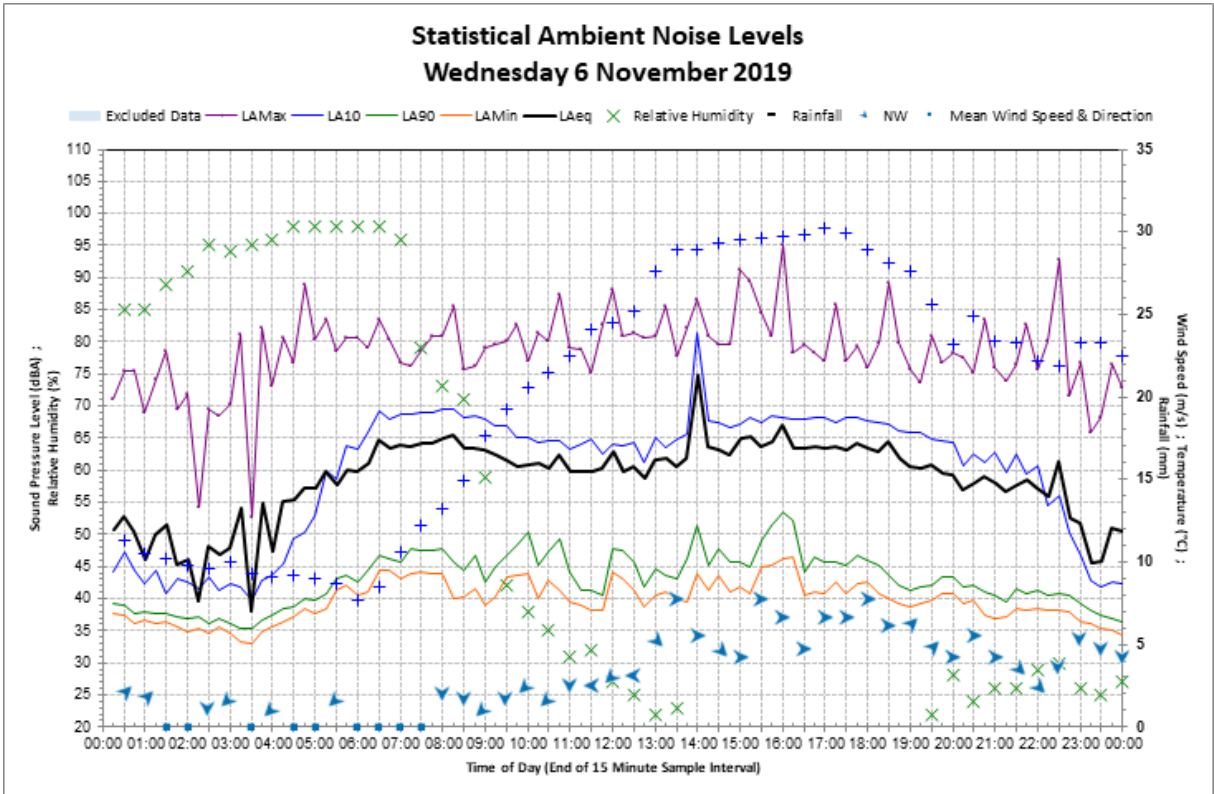
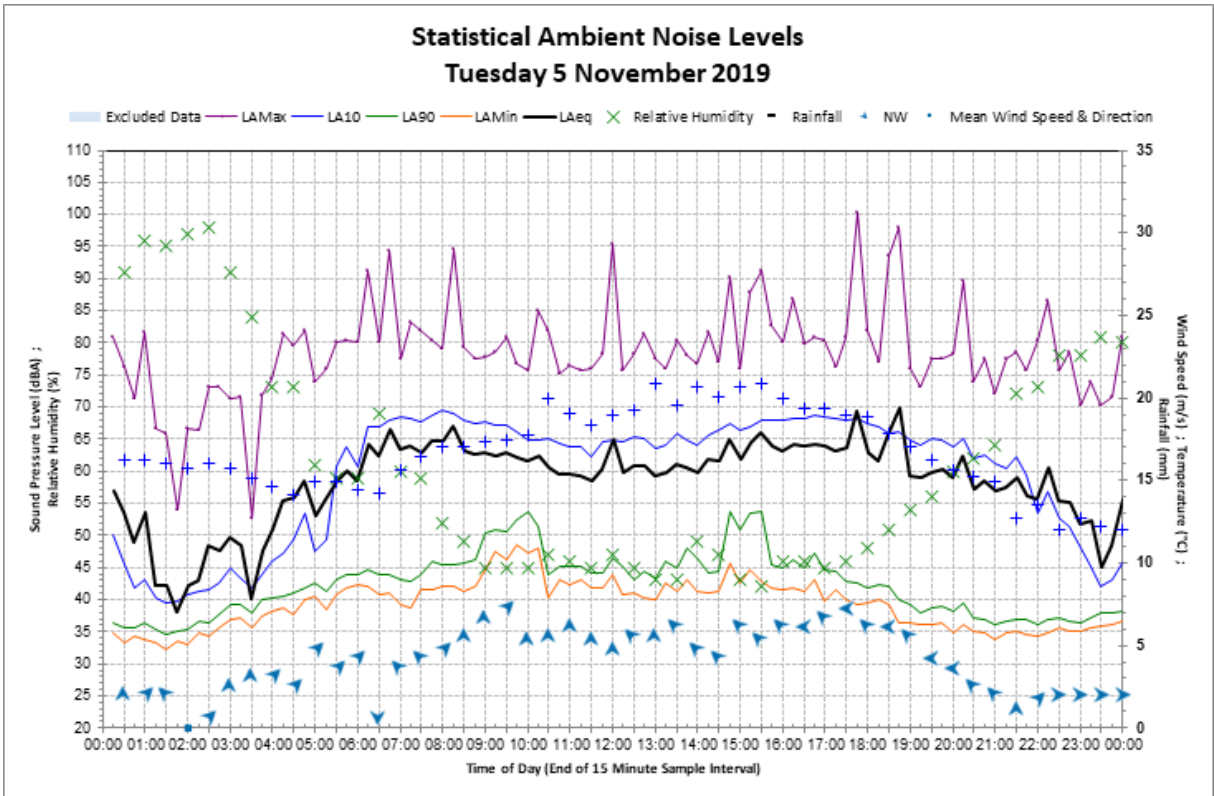


**M4 – 75 Townson Road, Schofields**

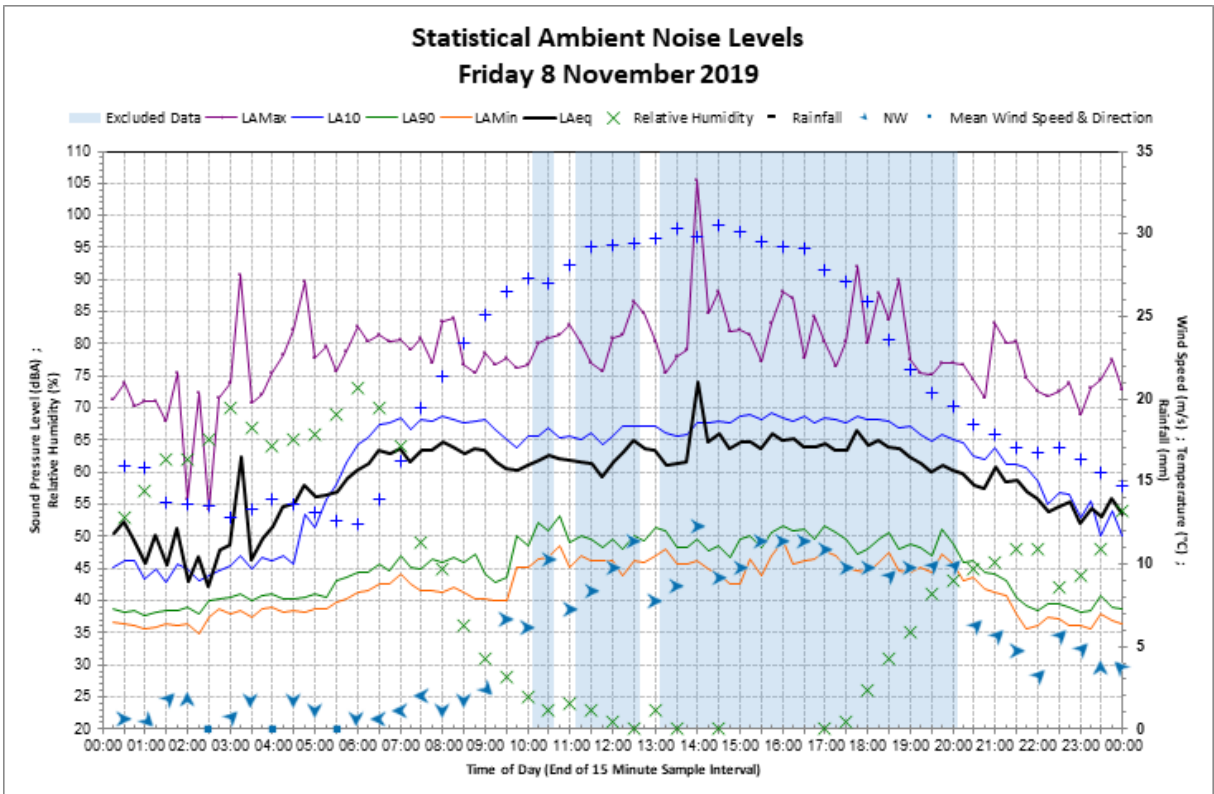
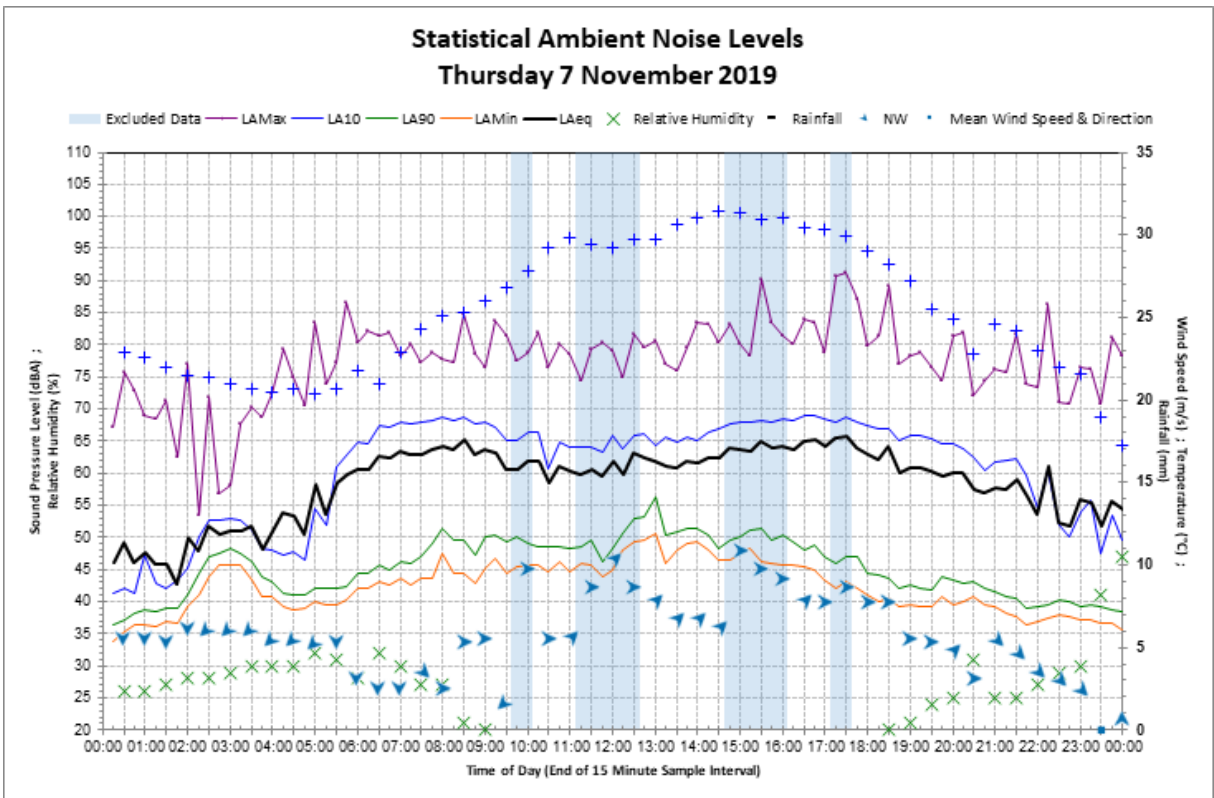


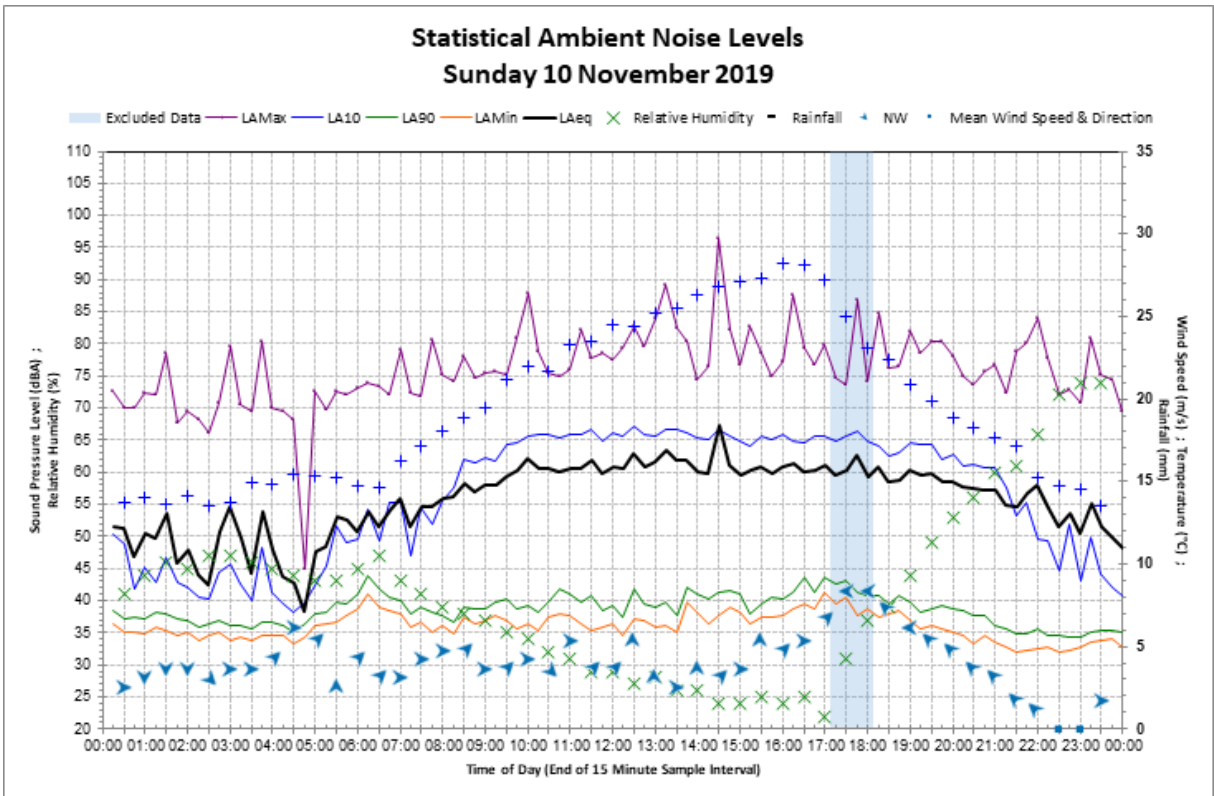
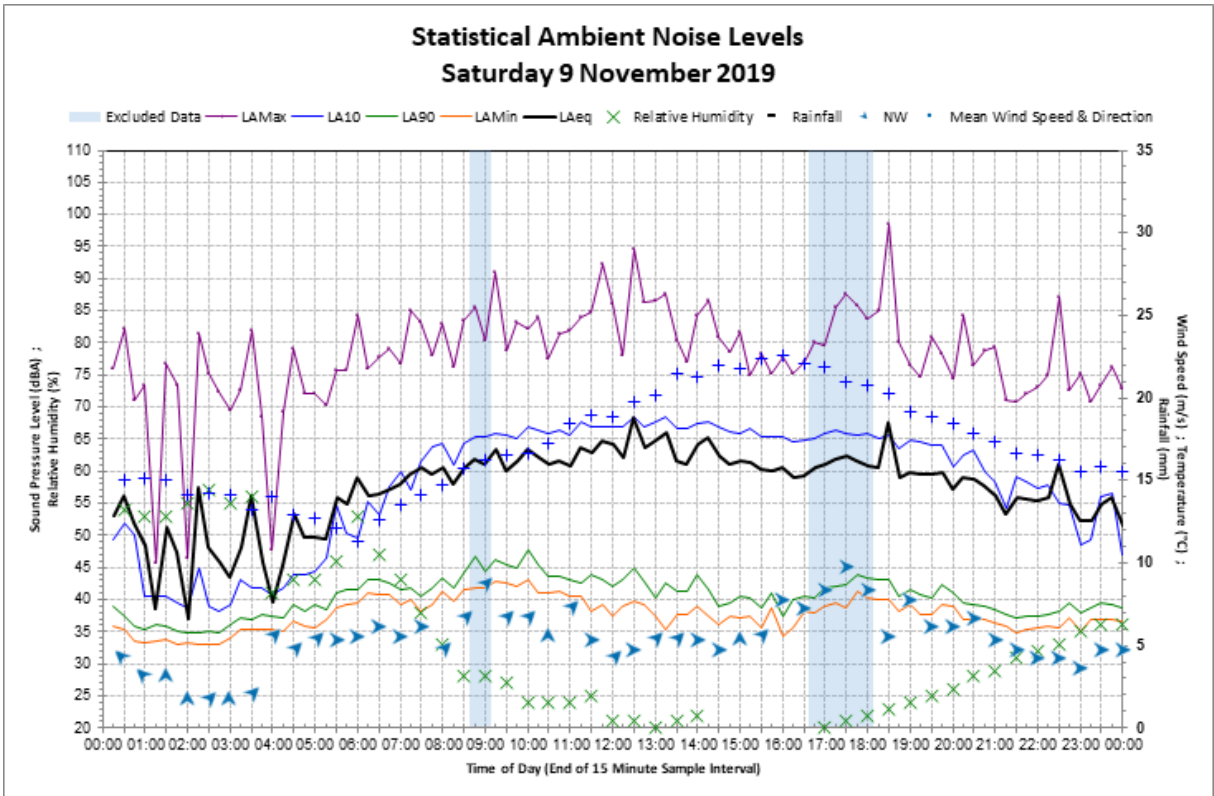




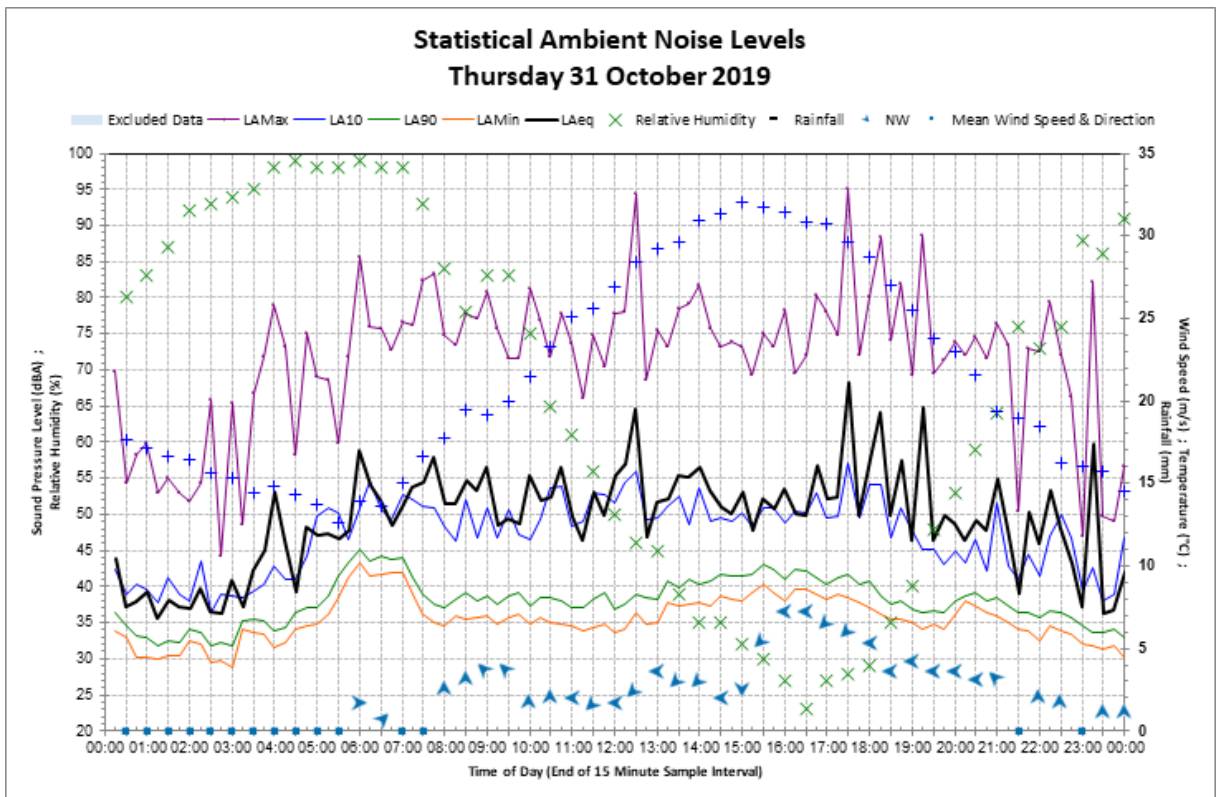
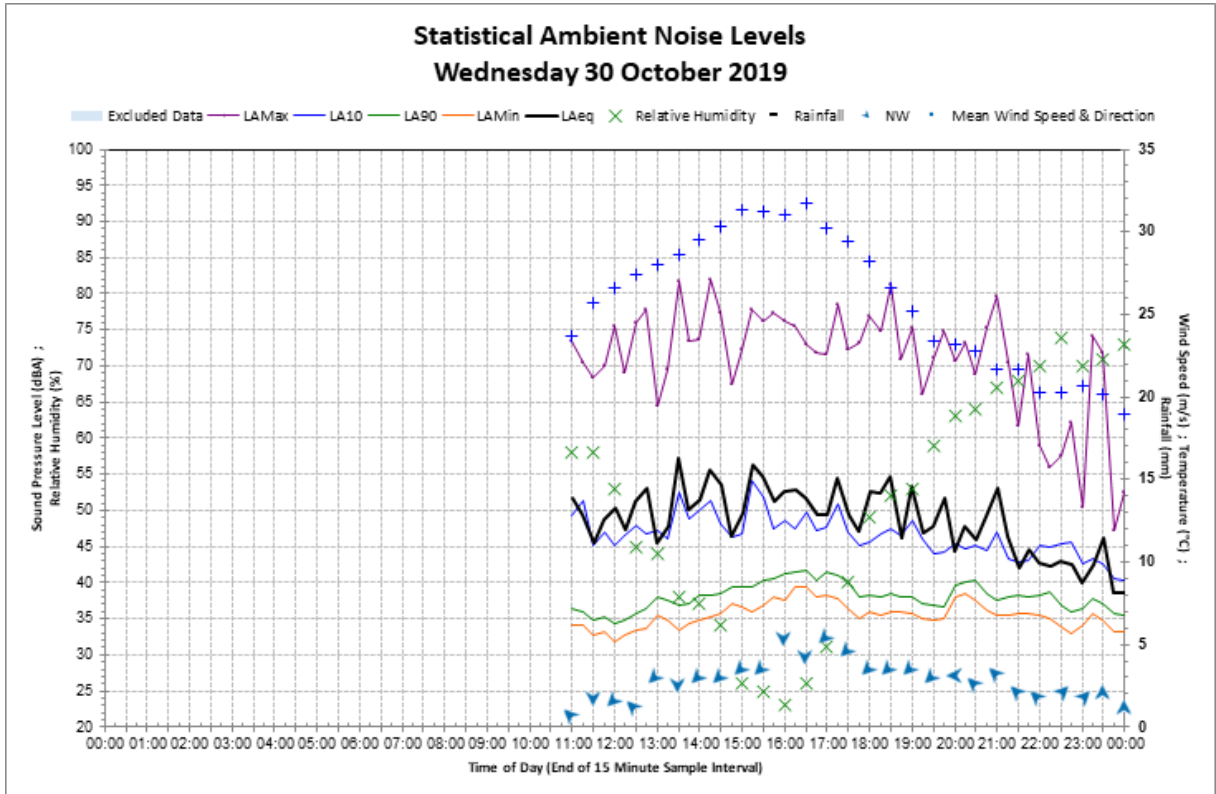


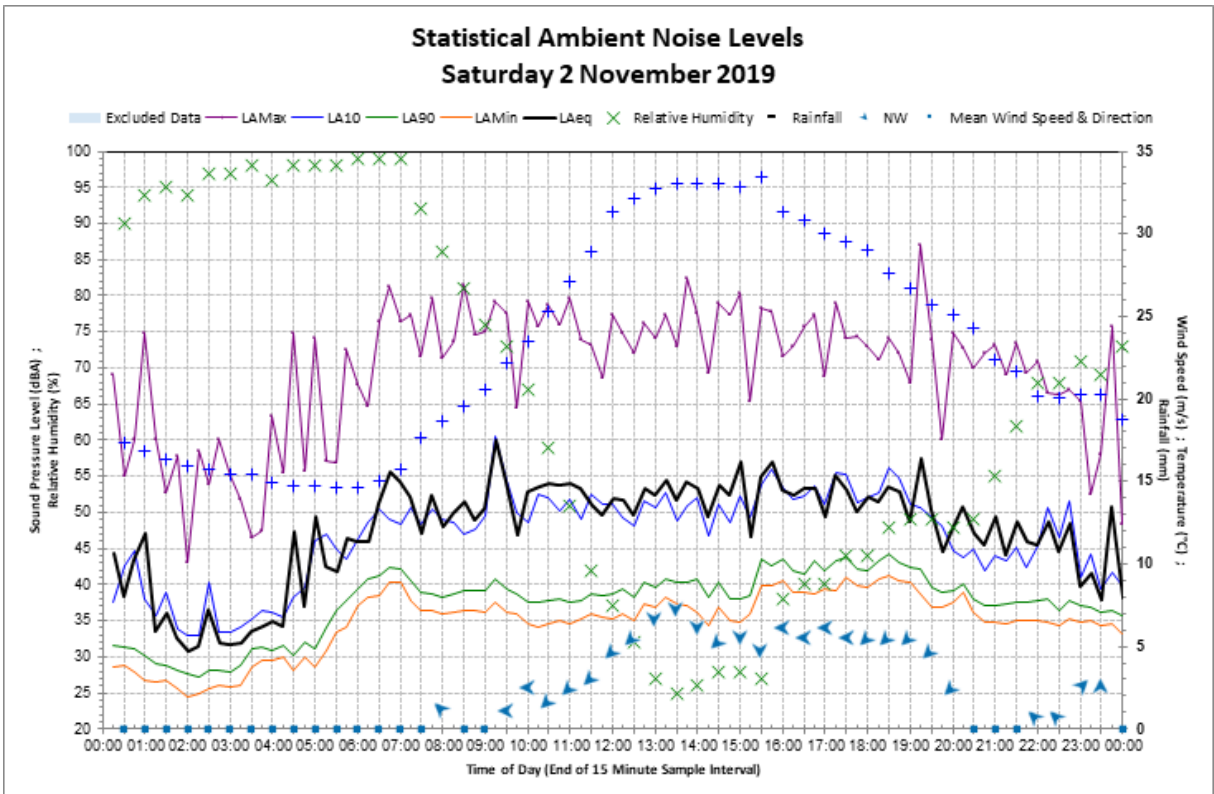
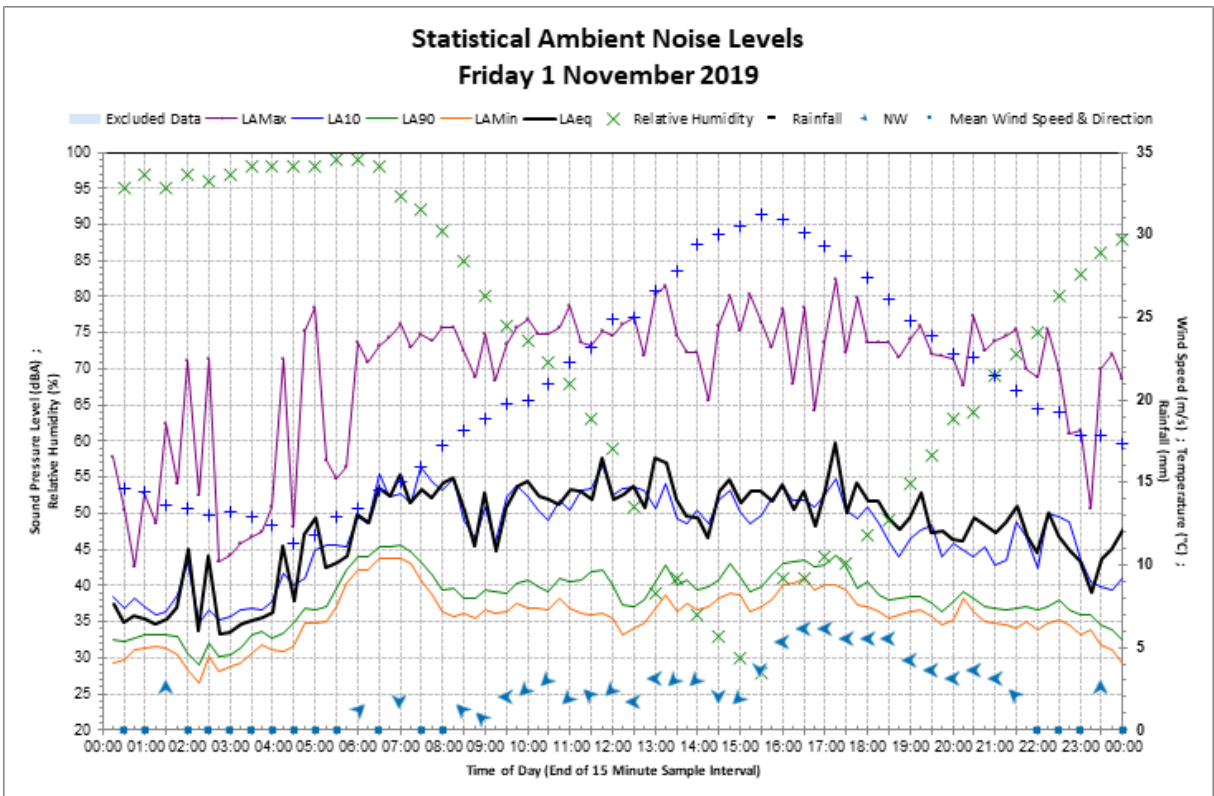


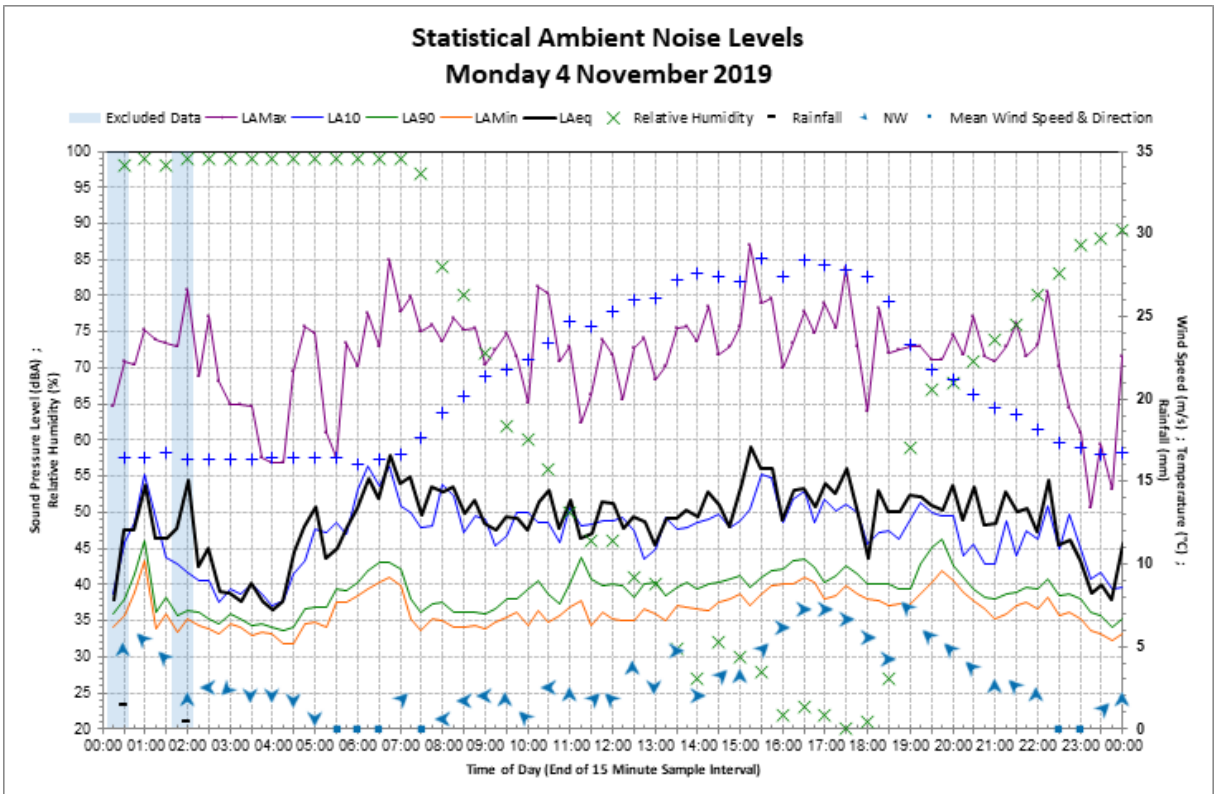
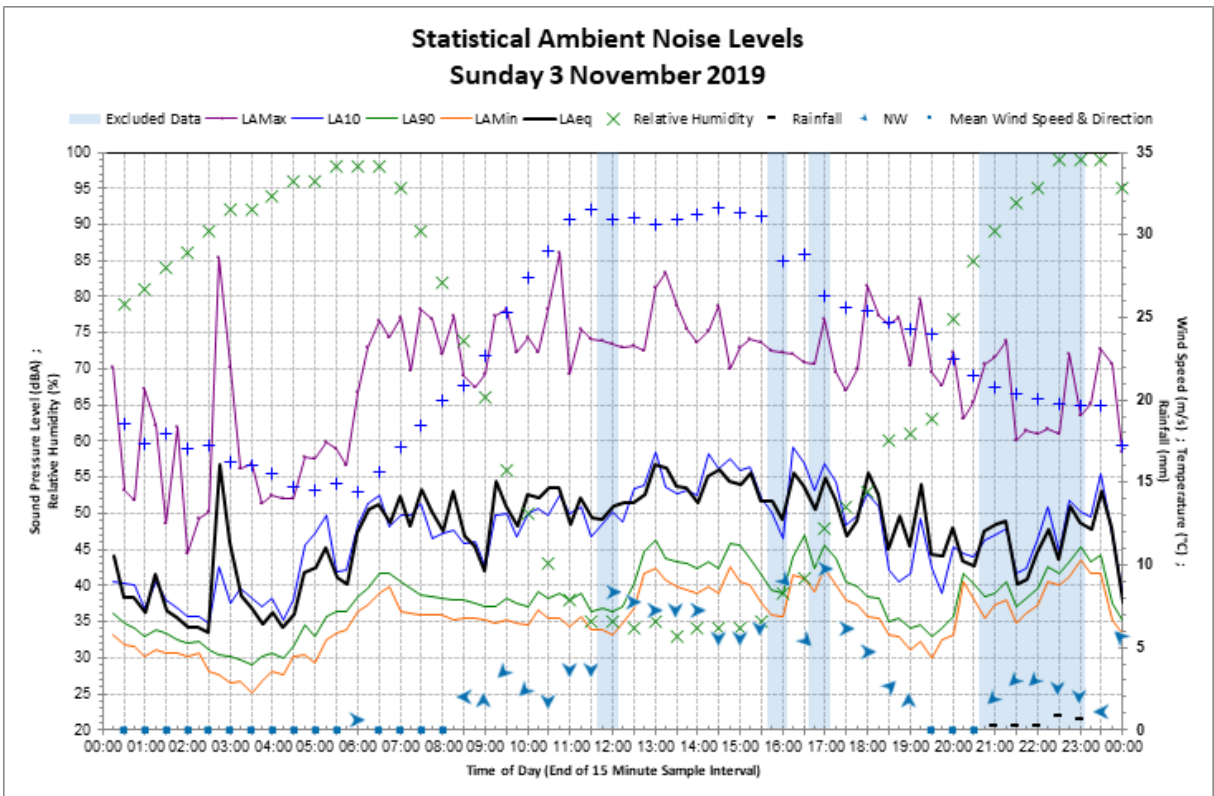


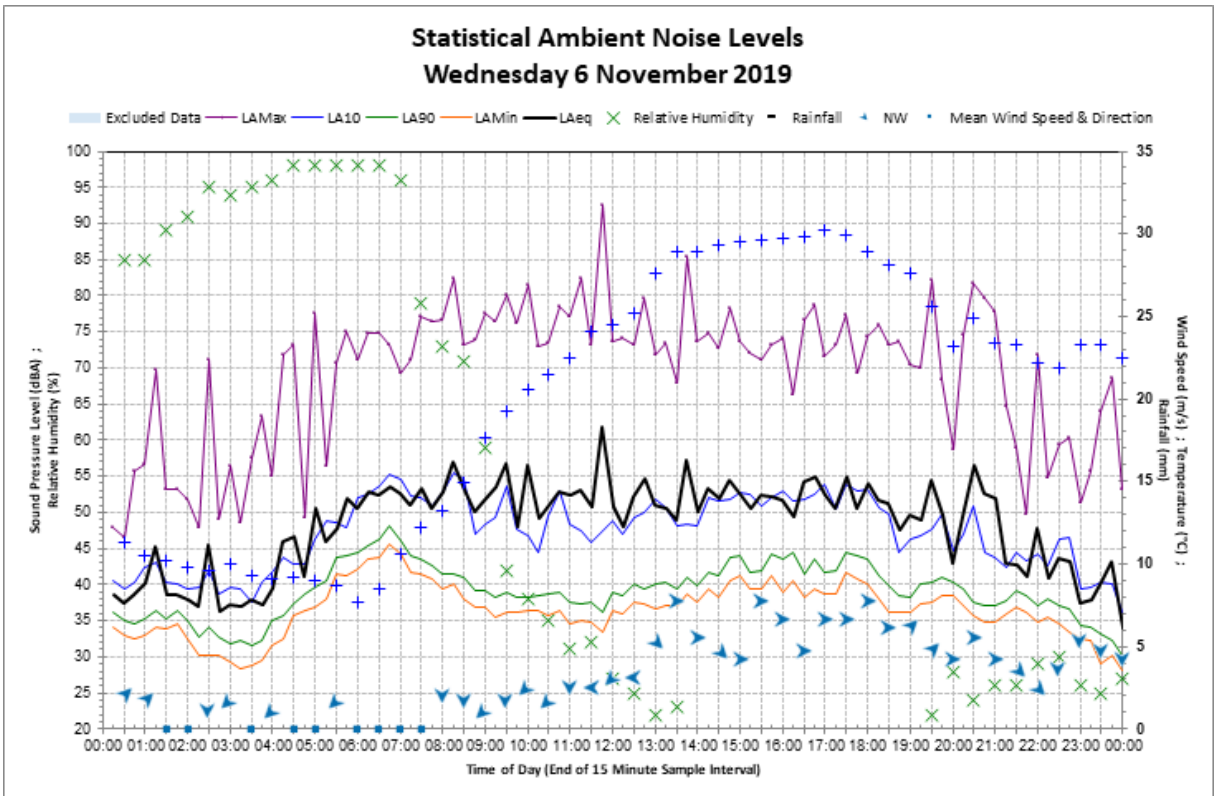
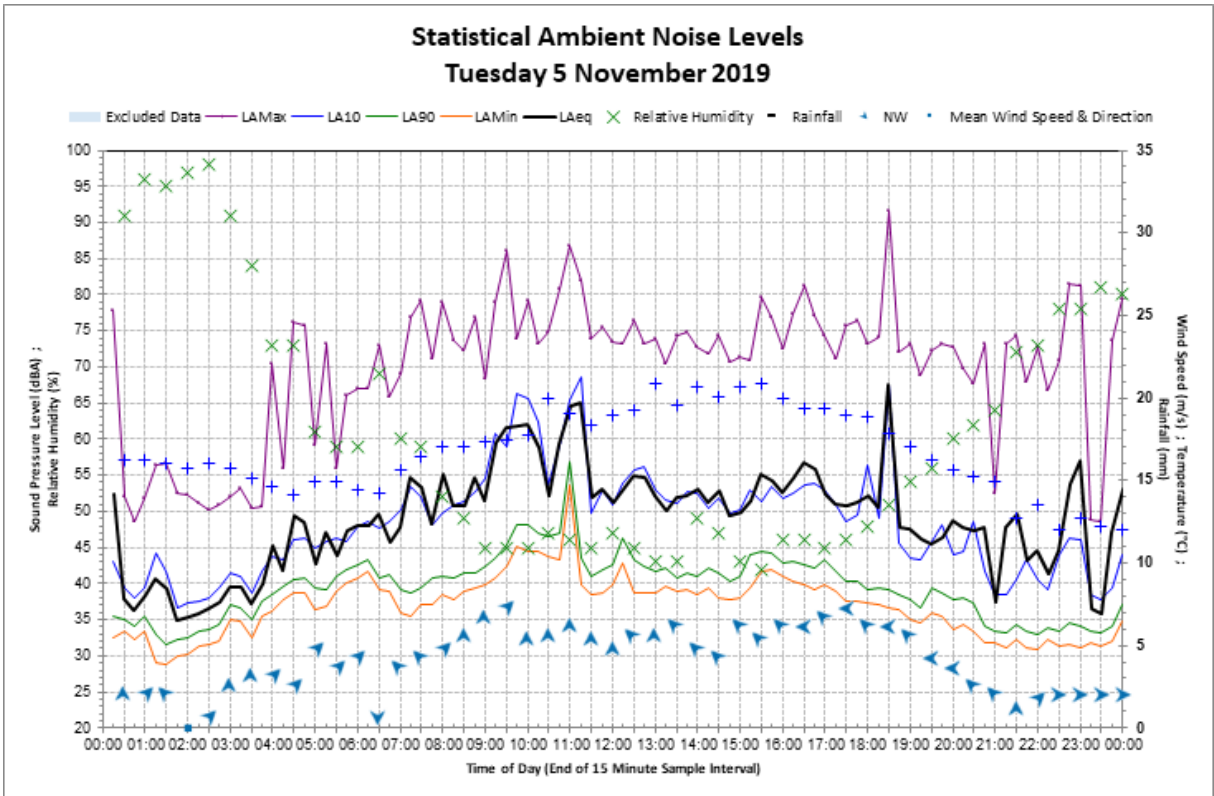


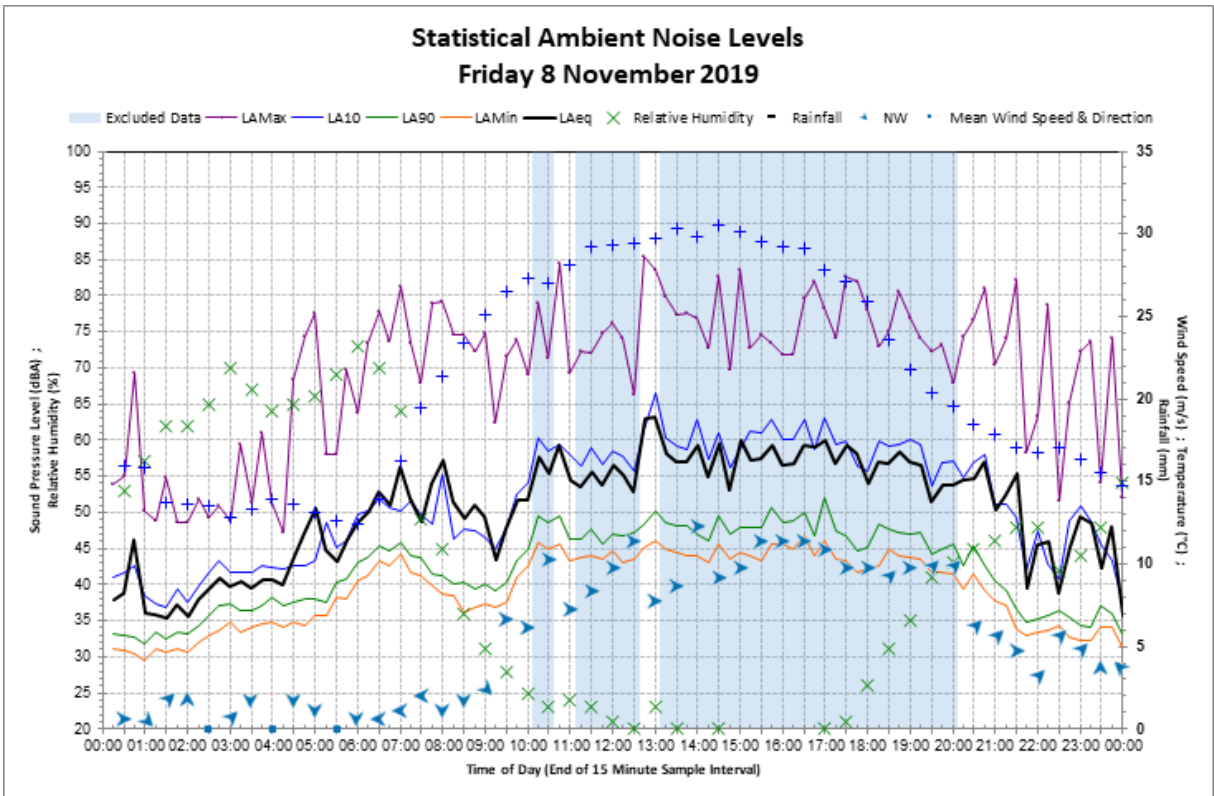
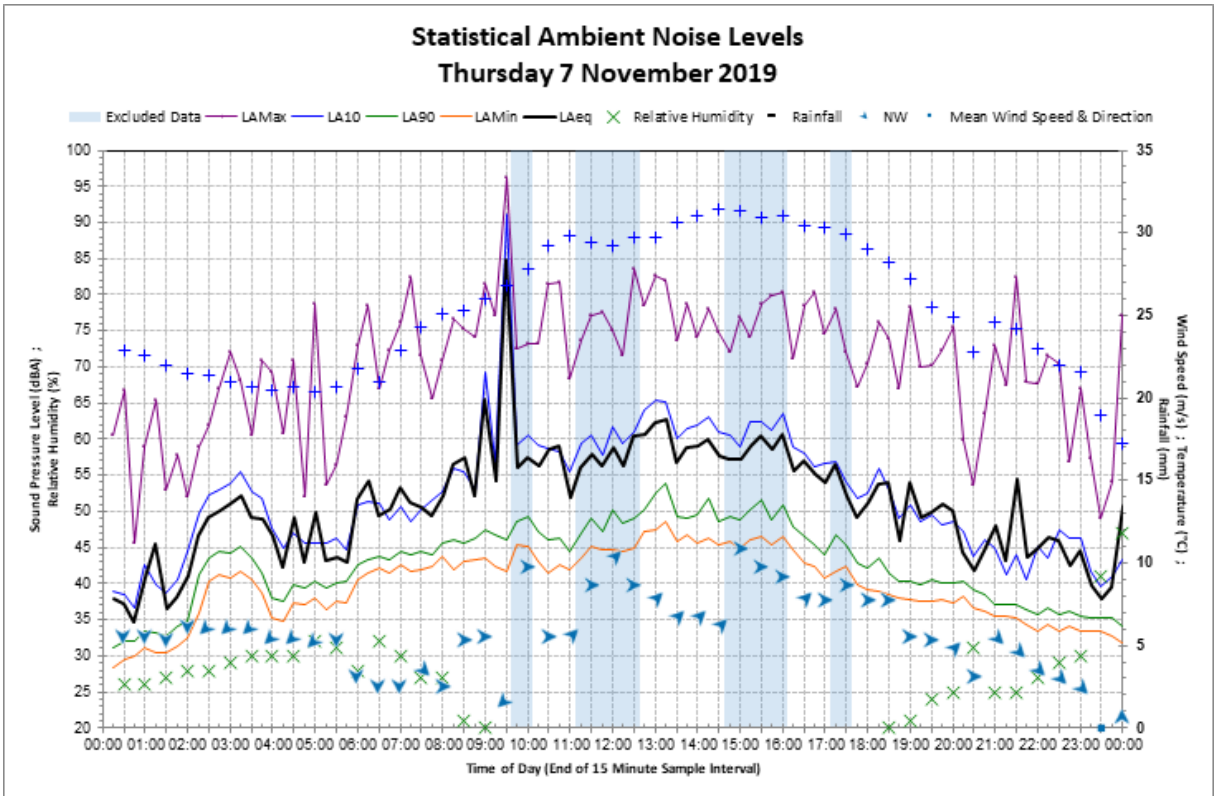
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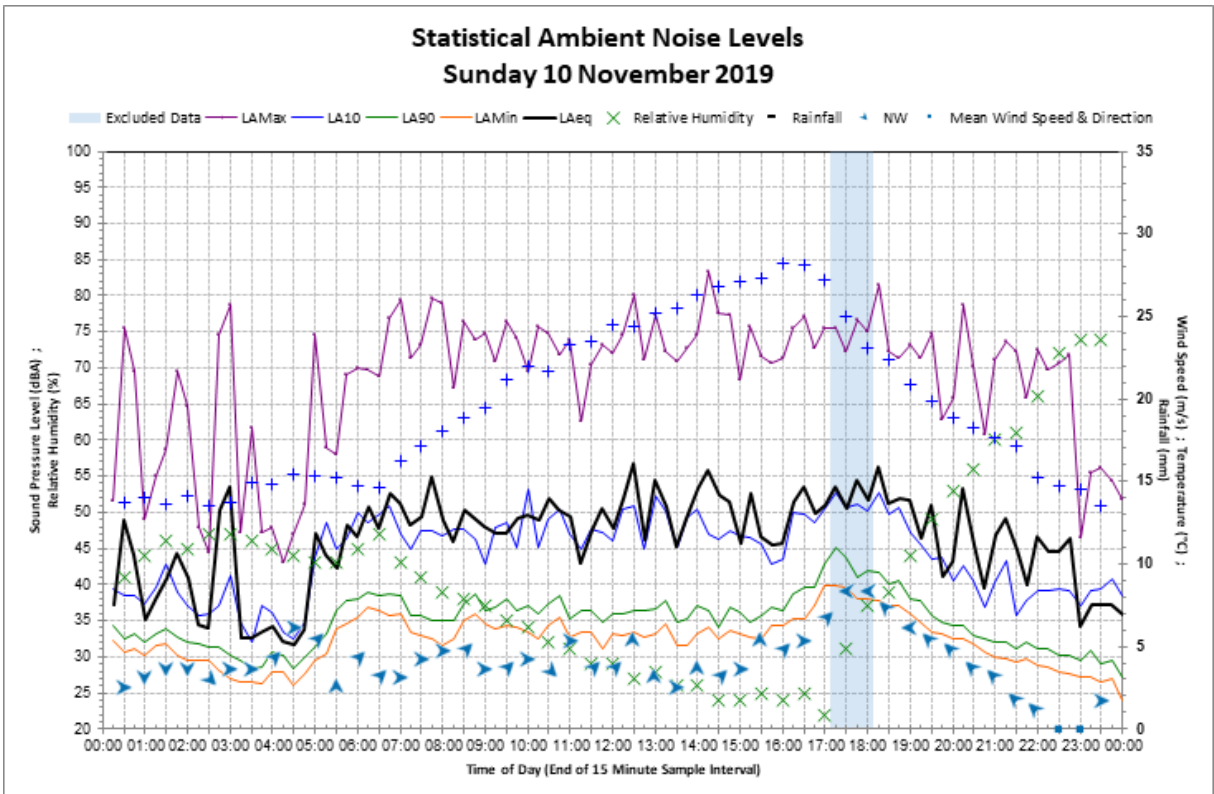
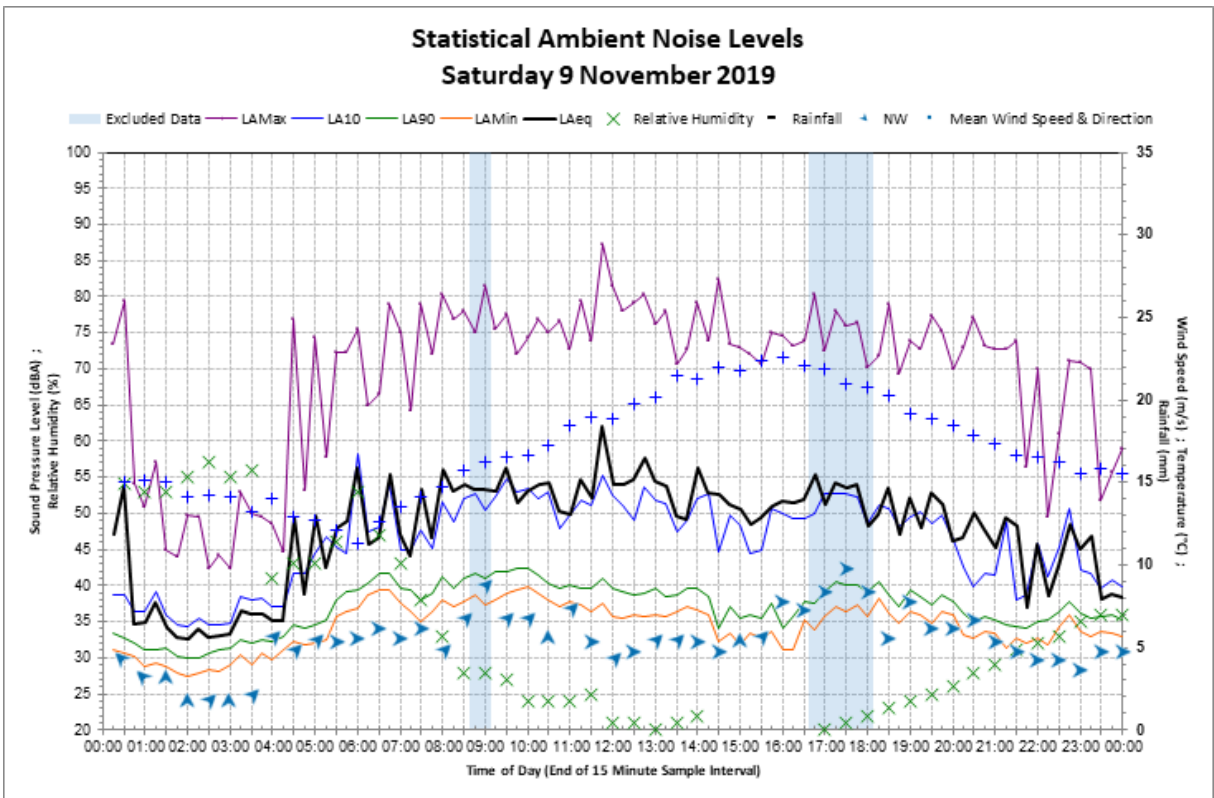














## **Appendix D** – Predicted construction noise levels – standard hours

Receiver D	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Add itional management measues
			Residential:	Noticeable / Clearly audible	Moderately intrusive	Highly intrusive	Highly noise affected							
			Non-residential:	Exceeds noise management level										
R001	7 FAIRVIEW PLACE MARSDEN PARK	Commercial	NCA01	43	47	39	28	41	40	43	28	40	40	-
R002	1 FAIRVIEW PLACE MARSDEN PARK	Commercial	NCA01	46	50	41	27	42	43	46	27	42	43	-
R003	RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	49	53	42	31	45	46	49	31	44	46	-
R004	16 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	53	57	45	29	47	50	53	29	47	50	-
R005	1 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	63	67	56	32	54	60	63	32	55	60	-
R006	9 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	42	46	37	29	40	39	41	29	37	38	-
R007	99 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	30	34	25	19	26	27	28	19	26	25	-
R008	2 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	64	68	56	32	55	61	64	32	55	61	-
R009	16 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	37	41	31	29	33	34	40	29	33	37	-
R010	9 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	52	56	46	27	46	49	52	27	46	49	-
R011	9 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	46	50	42	29	43	43	46	29	43	43	-
R012	10 HOLLINSWORTH ROAD MARSDEN PARK	Commercial	NCA01	54	58	46	28	45	51	53	28	45	50	-
R013	10 LANGFORD DRIVE MARSDEN PARK	Commercial	NCA01	44	48	39	28	40	41	43	28	40	40	-
R014	10 LANGFORD DRIVE MARSDEN PARK	Commercial	NCA01	38	42	34	29	36	35	39	29	35	36	-
R015	2 MARSDEN PARK ROAD MARSDEN PARK	Commercial	NCA01	53	57	49	32	51	50	52	32	49	49	-
R016	72 MARSDEN PARK ROAD MARSDEN PARK	Commercial	NCA01	47	51	42	30	44	44	46	30	44	43	-
R017	920 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	51	55	47	31	48	48	52	31	48	49	-
R018	920 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	57	61	49	32	49	54	57	32	49	54	-
R019	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	49	53	46	25	48	46	49	23	48	46	-
R020	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	47	51	44	33	44	44	47	33	44	44	-
R021	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	45	49	41	33	42	42	45	33	42	42	-
R022	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	49	53	46	33	48	46	49	34	47	46	-
R023	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	51	55	47	25	50	48	51	24	50	48	-
R024	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	49	53	46	33	46	46	49	33	45	46	-
R025	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	49	53	44	33	45	46	49	33	43	46	-
R026	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	41	45	39	23	41	38	42	22	41	39	-
R027	875 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	66	70	62	31	62	63	66	31	61	63	-
R028	875 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	57	61	53	33	54	54	56	33	55	53	-
R029	879 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	52	56	48	33	50	49	51	33	50	48	-
R030	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	41	45	37	18	39	38	41	17	40	38	-
R031	879 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	51	54	46	19	48	48	51	18	48	48	-
R032	879 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	54	58	51	34	53	51	54	34	53	51	-
R033	883-895 RICHMOND ROAD MARSDEN PARK	Commercial	NCA01	44	48	41	32	44	41	45	32	42	42	-
R034	35 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	66	70	61	35	61	63	65	35	60	62	N, V
R035	51 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	64	68	60	38	55	61	64	38	54	61	N, V
R036	9 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	72	76	70	21	70	69	77	21	71	74	N, V, PC, RO
R037	55 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	64	68	57	37	53	61	63	37	52	60	N, V
R038	63 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	66	70	61	35	61	63	65	35	60	62	N, V, PC, RO
R039	23 ALDERTON DRIVE COLEBEE	Residential	NCA02	45	49	41	31	43	42	44	31	43	41	-
R040	17 ALDERTON DRIVE COLEBEE	Residential	NCA02	40	44	35	26	35	37	39	26	34	36	-
R041	5 ALDERTON DRIVE COLEBEE	Residential	NCA02	47	51	39	28	41	44	46	28	41	43	-
R042	21 ALDERTON DRIVE COLEBEE	Residential	NCA02	44	47	39	31	42	41	43	31	41	40	-
R043	19 ALDERTON DRIVE COLEBEE	Residential	NCA02	44	48	39	31	41	41	43	31	41	40	-
R044	15 ALDERTON DRIVE COLEBEE	Residential	NCA02	44	48	39	31	42	41	43	31	41	40	-
R045	25 ALDERTON DRIVE COLEBEE	Residential	NCA02	47	51	43	32	44	44	46	32	42	43	-
R046	11 ALDERTON DRIVE COLEBEE	Residential	NCA02	43	47	38	31	41	40	42	31	41	39	-
R047	9 ALDERTON DRIVE COLEBEE	Residential	NCA02	43	47	39	31	41	40	42	31	41	39	-
R048	13 ALDERTON DRIVE COLEBEE	Residential	NCA02	43	47	39	31	41	40	42	31	41	39	-
R049	7 ALDERTON DRIVE COLEBEE	Residential	NCA02	46	50	38	33	41	43	44	33	41	41	-
R050	19 COOMBELL AVENUE COLEBEE	Residential	NCA02	44	48	38	31	39	41	42	29	38	39	-
R051	17 COOMBELL AVENUE COLEBEE	Residential	NCA02	44	48	39	29	42	41	43	29	41	40	-
R052	1 COOMBELL AVENUE COLEBEE	Residential	NCA02	47	51	44	32	45	44	47	32	44	44	-
R053	3 COOMBELL AVENUE COLEBEE	Residential	NCA02	32	36	29	19	32	29	32	19	31	29	-
R054	7 COOMBELL AVENUE COLEBEE	Residential	NCA02	35	39	31	22	33	32	35	22	32	32	-
R055	11 COOMBELL AVENUE COLEBEE	Residential	NCA02	38	42	35	24	35	35	38	24	34	35	-
R056	3 COOMBELL AVENUE COLEBEE	Residential	NCA02	46	50	42	32	44	43	45	32	44	42	-
R057	11 COOMBELL AVENUE COLEBEE	Residential	NCA02	34	38	30	21	31	31	34	20	31	31	-
R058	7 COOMBELL AVENUE COLEBEE	Residential	NCA02	45	49	41	32	43	42	45	32	42	42	-
R059	5 COOMBELL AVENUE COLEBEE	Residential	NCA02	45	49	41	31	43	42	45	31	44	42	-
R060	3 COOMBELL AVENUE COLEBEE	Residential	NCA02	47	51	43	31	43	44	47	32	43	44	-
R061	2 COOMBELL AVENUE COLEBEE	Residential	NCA02	47	51	43	31	44	44	47	31	43	44	-
R062	9 COOMBELL AVENUE COLEBEE	Residential	NCA02	37	40	32	23	34	34	37	22	33	34	-
R063	8 COOMBELL AVENUE COLEBEE	Residential	NCA02	42	46	36	28	39	39	40	27	38	37	-
R064	10 COOMBELL AVENUE COLEBEE	Residential	NCA02	43	47	40	20	41	40	43	20	40	40	-
R065	13 COOMBELL AVENUE COLEBEE	Residential	NCA02	38	42	33	27	34	35	39	27	34	36	-
R066	19 COOMBELL AVENUE COLEBEE	Residential	NCA02	36	40	31	21	33	33	36	21	33	33	-
R067	15 COOMBELL AVENUE COLEBEE	Residential	NCA02	44	48	39	29	42	41	43	29	42	40	-
R068	17 COOMBELL AVENUE COLEBEE	Residential	NCA02	45	48	41	31	43	42	44	31	43	41	-
R069	19 COOMBELL AVENUE COLEBEE	Residential	NCA02	37	41	30	31	32	34	37	31	32	34	-
R070	12 COOMBELL AVENUE COLEBEE	Residential	NCA02	44	48	38	26	41	41	44	26	40	41	-
R071	13 COOMBELL AVENUE COLEBEE	Residential	NCA02	43	47	40	27	42	40	43	27	42	40	-
R072	4 COOMBELL AVENUE COLEBEE	Residential	NCA02	41	45	36	21	30	38	43	20	31	40	-
R073	9 COOMBELL AVENUE COLEBEE	Residential	NCA02	45	49	40	31	42	42	43	31	41	40	-
R074	15 COOMBELL AVENUE COLEBEE	Residential	NCA02	38	41	33	27	36	35	37	27	34	34	-
R075	6 COOMBELL AVENUE COLEBEE	Residential	NCA02	45	49	42	31	44	42	45	31	44	42	-
R076	13 PIMLICO CRESCENT COLEBEE	Residential	NCA02	51	55	47	32	49	48	51	32	49	48	-
R077	17 PIMLICO CRESCENT COLEBEE	Residential	NCA02	51	55	48	32	50	48	51	32	50	48	-
R078	7 PIMLICO CRESCENT COLEBEE	Residential	NCA02	49	53	46	32	45	46	48	32	47	45	-
R079	11 PIMLICO CRESCENT COLEBEE	Residential	NCA02	50	54	45	32	47	47	48	32	47	45	-
R080	1 PIMLICO CRESCENT COLEBEE	Residential	NCA02	47	51	44	31	45	44	46	31	43	43	-
R081	9 PIMLICO CRESCENT COLEBEE	Residential	NCA02	50	54	47	32	48	47	49	32	48	46	-
R082	21 PIMLICO CRESCENT COLEBEE	Residential	NCA02	48	52	44	32	47	45	47	32	45	44	-
R083	19 PIMLICO CRESCENT COLEBEE	Residential	NCA02	46	50	42	32	45	43	46	32	44	43	-
R084	44 PIMLICO CRESCENT COLEBEE	Residential	NCA02	45	49	41	28	43	42	44	28	43	41	-
R085	46 PIMLICO CRESCENT COLEBEE	Residential	NCA02	45	49	40	28	42	42	45	28	42	42	-
R086	42 PIMLICO CRESCENT COLEBEE	Residential	NCA02	47	51	43	27	46	44	46	27	46	43	-
R087	50 PIMLICO CRESCENT COLEBEE	Residential	NCA02	44	48	41	30	43	41	44	30	43	41	-
R088	52 PIMLICO CRESCENT COLEBEE	Residential	NCA02	44	48	40	30	43	41	43	30	42	40	-
R089	38 PIMLICO CRESCENT COLEBEE	Residential	NCA02	46	50	42	29	44	43	46	28	44	43	-
R090	36 PIMLICO CRESCENT COLEBEE	Residential	NCA02	48	52	44	29	46	45	48	28	46	45	-
R091	30 PIMLICO CRESCENT COLEBEE	Residential	NCA02	49	53	46	28	48	46	49	28	48	46	-
R092	34 PIMLICO CRESCENT COLEBEE	Residential	NCA02	49	53	46	29	48	46	48	29	48	45	-
R093	40 PIMLICO CRESCENT COLEBEE	Residential	NCA02	46	50	41	29	44	43	46	29	44	43	-
R094	32 PIMLICO CRESCENT COLEBEE	Residential	NCA02	49	53	46	25	48	46	49	25	48	46	-
R095	48 PIMLICO CRESCENT COLEBEE	Residential	NCA02	44	48	40	27	41	41	44	27	41	41	-
R096	54 PIMLICO CRESCENT COLEBEE	Residential	NCA02	44	48	41	29	42	41	44	29	42	41	-
R097	20 PIMLICO CRESCENT COLEBEE	Residential	NCA02	53	57	50	32	52	50	53	32	52	50	-
R098	15 PIMLICO CRESCENT COLEBEE	Residential	NCA02	50	54	46	32	49	47	48	32	49	45	-
R099	22 PIMLICO CRESCENT COLEBEE	Residential	NCA02	48	52	41	18	41	45	48	17	40	45	-
R100	30 PIMLICO CRESCENT COLEBEE	Residential	NCA02	50	54	46	30	49	47	50	30	48	47	-
R101	24 PIMLICO CRESCENT COLEBEE	Residential	NCA02	52	56									

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:	Noticeable / Clearly audible	Moderately intrusive	Highly intrusive	Highly intrusive	Highly intrusive	Highly intrusive	Highly intrusive	Highly intrusive	Highly intrusive	Highly intrusive	
			Non-residential:	Exceeds noise management level										
R103	851 RICHMOND ROAD COLEBEE	Commercial	NCA02	55	59	51	32	54	52	54	32	50	51	-
R104	861 RICHMOND ROAD MARSDEN PARK	Commercial	NCA02	59	63	54	33	58	56	59	33	55	56	-
R105	861 RICHMOND ROAD MARSDEN PARK	Commercial	NCA02	61	65	56	33	60	58	60	33	59	57	-
R106	861 RICHMOND ROAD MARSDEN PARK	Commercial	NCA02	68	72	63	33	64	65	68	33	63	65	-
R107	849 RICHMOND ROAD COLEBEE	Commercial	NCA02	53	57	49	33	47	50	53	33	43	50	-
R108	851 RICHMOND ROAD COLEBEE	Commercial	NCA02	58	62	54	33	57	55	58	33	57	55	-
R109	861 RICHMOND ROAD MARSDEN PARK	Commercial	NCA02	68	72	60	30	62	65	67	30	61	64	-
R110	861 RICHMOND ROAD MARSDEN PARK	Commercial	NCA02	58	62	53	33	56	55	57	33	55	54	N, V, PC, RO
R111	4 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	50	54	46	27	49	47	50	26	49	47	N, V, PC, RO
R112	7 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	45	49	41	28	44	42	45	28	44	42	N, V, PC, RO
R113	5 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	46	50	41	31	42	43	44	31	42	41	N, V, PC, RO
R114	3 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	46	50	43	32	44	43	44	32	44	43	N, V
R115	6 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	45	49	40	32	41	42	44	32	40	41	N, V
R116	11 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	46	50	39	27	39	43	46	27	39	43	N, V
R117	8 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	39	43	30	28	29	36	39	29	29	36	N, V, PC, RO
R118	9 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	45	49	41	29	44	42	45	29	43	42	N, V
R119	6 TOWNSON ROAD COLEBEE	Commercial	NCA02	89	93	70	33	65	86	86	33	64	83	N, V
R120	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	98	99	78	36	58	95	92	36	56	89	N, V
R121	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	74	78	66	21	59	71	71	20	58	68	N, V, PC, RO
R122	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	90	94	78	36	58	87	91	36	56	88	N, V
R123	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	72	76	65	20	59	69	70	20	57	67	N, V
R124	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	71	75	64	20	59	68	69	19	57	66	N, V
R125	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	69	73	63	20	59	66	68	20	57	65	N, V
R126	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	67	71	62	20	59	64	67	19	57	64	N, V
R127	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	90	94	77	36	58	87	91	36	56	88	N, V, PC, RO
R128	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	67	71	61	20	58	64	66	20	57	63	N, V
R129	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	64	68	59	20	58	61	63	21	56	60	N, V, PC, RO
R130	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	67	58	20	58	60	63	19	56	60	N, V
R131	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	91	95	75	36	58	88	92	36	56	89	-
R132	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	67	58	19	57	60	62	19	56	59	-
R133	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	66	57	19	57	59	61	18	56	58	N, V, PC, RO
R134	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	66	57	19	57	59	61	19	56	58	N, V
R135	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	61	65	56	20	57	58	60	19	55	57	-
R136	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	67	71	60	37	57	64	66	37	56	63	N, V, PC, RO
R137	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	93	97	72	38	57	90	96	38	53	93	-
R138	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	66	54	29	51	59	61	32	50	58	-
R139	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	94	98	70	38	54	91	96	38	53	93	N, V
R140	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	66	70	59	36	55	63	65	36	53	62	-
R141	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	57	61	53	36	56	54	58	35	55	55	-
R142	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	49	35	49	50	53	34	47	50	N, V, PC, RO
R143	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	94	98	68	38	54	91	95	38	53	92	-
R144	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	69	73	55	38	54	66	71	37	53	68	-
R145	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	58	63	56	27	52	55	59	26	50	56	-
R146	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	93	98	67	38	55	90	97	38	52	94	N, V
R147	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	57	46	33	49	48	52	32	48	49	-
R148	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	57	61	52	33	56	54	56	33	54	53	-
R149	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	70	74	53	38	54	67	70	37	52	67	N, V
R150	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	57	61	52	22	55	54	56	19	54	53	N, V, PC, RO
R151	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	56	48	31	51	49	53	30	49	50	-
R152	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	97	101	66	37	53	94	98	37	52	95	-
R153	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	59	48	33	51	50	55	31	50	52	-
R154	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	58	51	33	53	51	54	33	51	51	-
R155	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	57	61	53	19	54	54	56	19	53	53	-
R156	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	66	70	54	36	56	63	70	36	54	67	-
R157	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	58	50	34	50	51	53	34	49	50	N, V, PC, RO
R158	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	58	50	34	52	51	55	33	50	52	N, V
R159	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	65	69	51	36	53	62	63	36	52	60	-
R160	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	95	99	64	39	53	92	98	39	52	95	-
R161	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	55	48	31	51	48	53	31	49	50	-
R162	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	55	59	48	33	51	52	55	32	50	52	-
R163	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	60	52	19	53	53	56	18	52	53	-
R164	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	44	31	48	45	49	30	46	46	N, V, PC, RO
R165	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	60	52	19	54	53	56	18	52	53	-
R166	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	55	59	47	34	51	52	56	33	49	53	N, V, PC, RO
R167	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	94	98	63	38	54	91	98	38	51	95	-
R168	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	65	69	50	38	53	62	64	38	51	61	-
R169	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	58	50	34	50	51	55	33	48	52	-
R170	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	55	47	34	50	48	51	34	49	48	-
R171	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	60	52	31	53	53	56	31	52	53	-
R172	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	42	29	46	43	47	29	44	44	N, V, PC, RO
R173	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	55	47	32	51	48	53	31	49	50	-
R174	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	96	100	62	39	52	93	98	39	51	95	-
R175	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	62	50	35	51	53	57	34	50	54	N, V, PC, RO
R176	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	71	76	48	37	52	68	70	37	51	67	-
R177	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	42	29	46	43	47	29	45	44	-
R178	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	58	50	34	51	51	54	33	50	51	-
R179	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	43	29	47	43	48	28	45	45	-
R180	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	49	31	52	50	53	31	52	50	N, V, PC, RO
R181	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	46	34	49	47	50	33	48	47	-
R182	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	96	100	61	39	52	93	98	39	51	95	-
R183	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	45	32	50	47	51	31	48	48	N, V
R184	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	43	28	45	43	47	27	43	44	-
R185	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	73	77	47	37	52	70	70	37	51	67	-
R186	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	58	50	37	49	51	54	36	47	51	-
R187	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	49	36	51	50	56	35	50	53	-
R188	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	45	30	48	47	50	30	48	47	-
R189	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	43	29	48	44	49	29	46	46	N, V, PC, RO
R190	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	94	98	60	39	52	91	99	39	51	96	N, V
R191	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	40	28	44	41	45	27	42	42	-
R192	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	55	59	47	36	50	52	56	34	49	53	-
R193	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	64	67	47	39	52	61	64	38	51	61	-
R194	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	46	34	49	47	50	33	48	47	-
R195	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	50	35	50	50	54	34	49	51	-
R196	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	46	32	50	47	52	31	48	49	-
R197	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	44	29	48	44	49	29	46	46	-
R198	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	45	32	48	45	49	31	47	46	N, V, PC, RO
R199	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	96	100	59	38	51	93	100	38	50	97	N, V
R200	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	64	73	47	38	53	61	64	38	51	61	-
R201	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	55	59	48	38	50	52	55	35	49	52	-
R202	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	41	27	44	41	45	27	42	42	-
R203	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	50	35	48	50	56	3			

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:	Noticeable / Clearly audible	Moderately intrusive	Highly intrusive	Bold	Highly noise affected						
			Non-residential:	Exceeds noise management level										
R205	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	45	30	48	45	49	29	47	46	N, V
R206	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	55	46	35	49	48	50	35	48	47	N, V, PC, RO
R207	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	46	32	50	47	51	32	48	48	-
R208	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	99	103	57	40	51	96	101	40	50	98	-
R209	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	66	45	38	51	60	63	38	50	60	-
R210	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	49	38	50	50	53	38	48	50	-
R211	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	40	28	44	41	45	27	42	42	-
R212	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	44	32	47	45	48	31	47	45	-
R213	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	56	48	38	50	49	53	36	48	50	-
R214	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	42	30	47	43	47	29	44	44	N, V, PC, RO
R215	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	67	45	38	51	60	63	37	50	60	N, V, PC, RO
R216	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	102	98	56	40	51	99	102	40	50	99	-
R217	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	46	38	48	47	50	37	47	47	-
R218	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	46	33	49	47	51	32	48	48	-
R219	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	40	28	43	41	44	28	41	41	-
R220	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	56	47	37	49	49	54	36	48	51	-
R221	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	56	49	38	50	49	53	37	47	50	-
R222	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	43	31	47	43	48	30	44	45	-
R223	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	44	30	47	45	48	29	46	45	N, V, PC, RO
R224	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	99	106	56	40	51	96	104	40	50	101	N, V
R225	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	73	77	45	38	52	70	72	38	50	69	-
R226	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	56	49	37	49	49	53	36	45	50	-
R227	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	40	28	42	41	45	28	40	42	-
R228	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	59	63	48	39	50	56	61	38	48	58	-
R229	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	46	39	48	46	50	39	47	47	-
R230	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	44	30	47	45	48	29	46	45	N, V, PC, RO
R231	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	44	33	48	45	49	32	46	46	-
R232	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	44	32	48	45	49	31	46	46	-
R233	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	103	106	55	41	50	100	106	41	49	103	-
R234	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	65	69	49	38	52	62	65	38	49	62	-
R235	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	47	40	28	43	40	44	27	42	41	N, V
R236	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	48	39	49	50	52	39	47	49	-
R237	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	58	61	47	38	50	55	60	37	48	57	-
R238	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	43	32	47	44	47	32	46	44	N, V, PC, RO
R239	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	43	32	47	44	48	31	45	45	-
R240	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	105	109	54	41	50	102	105	41	49	102	-
R241	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	46	39	47	46	49	39	47	46	N, V, PC, RO
R242	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	46	36	49	47	51	34	47	48	-
R243	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	47	39	27	42	40	43	27	41	40	-
R244	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	56	48	37	48	48	52	37	48	49	-
R245	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	66	46	32	49	59	60	31	48	57	-
R246	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	49	41	31	46	41	46	30	43	43	N, V
R247	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	43	31	46	44	47	30	45	44	-
R248	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	105	109	54	41	50	102	105	41	49	102	-
R249	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	45	40	47	46	49	40	46	46	N, V
R250	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	45	35	48	45	50	34	47	47	-
R251	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	73	77	47	38	48	70	74	37	42	71	-
R252	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	61	45	31	48	53	57	30	46	54	N, V
R253	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	55	47	37	48	48	52	36	47	49	N, V, PC, RO
R254	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	41	31	45	41	46	30	43	43	-
R255	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	47	39	26	42	40	44	26	41	41	-
R256	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	66	67	39	39	43	63	62	37	43	59	-
R257	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	43	32	46	44	47	31	45	44	-
R258	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	45	37	47	46	49	37	46	46	-
R259	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	65	70	38	39	42	62	61	38	41	58	N, V, PC, RO
R260	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	45	33	48	46	50	31	47	47	-
R261	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	46	38	26	42	39	43	26	40	40	-
R262	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	65	38	39	42	59	60	37	40	57	-
R263	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	102	106	54	42	50	99	99	42	49	96	-
R264	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	41	31	45	42	45	30	43	42	-
R265	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	42	32	46	43	46	31	45	43	N, V, PC, RO
R266	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	47	38	49	50	54	37	47	51	-
R267	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	45	37	47	46	49	37	46	46	-
R268	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	58	61	41	38	43	55	56	35	42	53	-
R269	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	102	106	54	42	49	99	96	42	49	93	-
R270	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	40	27	42	41	44	26	41	41	-
R271	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	45	27	48	46	49	22	47	46	-
R272	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	60	36	38	39	53	55	38	29	52	N, V, PC, RO
R273	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	42	32	46	42	46	32	44	43	-
R274	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	37	28	40	46	49	27	39	46	-
R275	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	97	101	54	40	50	94	90	40	49	87	N, V
R276	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	41	28	44	41	45	27	43	42	N, V, PC, RO
R277	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	54	42	38	46	47	52	38	45	49	-
R278	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	42	34	45	42	46	31	44	43	-
R279	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	56	39	34	41	49	51	33	36	48	N, V
R280	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	37	23	42	41	44	28	39	41	-
R281	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	56	38	33	41	49	51	33	39	48	-
R282	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	95	99	54	36	50	92	88	33	49	85	N, V
R283	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	41	27	44	41	45	26	42	42	-
R284	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	55	36	33	39	48	49	32	38	46	-
R285	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	64	69	49	32	47	61	65	33	46	62	-
R286	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	76	80	48	42	48	73	77	41	45	74	N, V, PC, RO
R287	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	59	63	37	37	41	56	59	36	38	56	-
R288	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	41	32	45	42	45	30	44	42	-
R289	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	60	64	38	38	42	57	61	37	40	58	-
R290	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	40	33	43	44	48	33	41	45	-
R291	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	60	45	23	47	53	57	21	46	54	N, V, PC, RO
R292	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	60	64	36	37	41	57	60	37	40	57	N, V, PC, RO
R293	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	47	40	20	43	40	44	20	42	41	N, V, PC, RO
R294	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	59	63	39	38	42	56	58	36	40	55	N, V
R295	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	41	25	44	41	45	24	43	42	N, V, PC, RO
R296	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	95	99	33	44	33	92	94	44	29	91	-
R297	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	60	29	40	34	53	57	39	31	54	-
R298	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	31	35	34	44	47	34	34	44	N, V, PC, RO
R299	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	58	62	42	42	47	55	60	42	43	57	-
R300	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57	44	39	46	50	51	38	45	48	N, V, PC, RO
R301	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	93	97	30	45	29	90	102	45	27	99	-
R302	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	94	98	31	45	30	91	102	45	26	99	-
R303	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	89	93	32	45	32	86	94	45	27	91	N, V, PC, RO
R304	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	66	44	38	48	59	61	37	46	58	N, V
R305	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	90	94	29	44	30	87	97	44	27	94	-
R306	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	57									

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:		Noticeable / Clearly audible		Moderately intrusive		Highly intrusive		Bold		Highly noise affected	
			Non-residential:		Exceeds noise management level									
R307	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	43	23	45	44	47	22	45	44	N, V, PC, RO
R308	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	90	94	31	45	30	87	98	45	30	95	-
R309	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	51	44	28	45	44	47	28	43	44	-
R310	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	90	94	31	44	31	87	97	44	30	94	-
R311	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	50	42	21	44	43	49	20	44	46	N, V
R312	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	55	41	27	44	48	48	27	43	45	N, V, PC, RO
R313	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	91	95	30	43	30	89	96	43	28	93	-
R314	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	61	65	44	37	47	58	62	35	45	59	-
R315	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	47	36	27	40	39	44	26	38	41	N, V
R316	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	52	43	27	46	45	48	27	45	45	N, V
R317	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	89	93	30	43	30	86	91	43	29	88	N, V
R318	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	58	62	45	39	46	55	58	39	46	55	N, V
R319	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	48	41	31	43	41	44	30	43	41	N, V
R320	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	45	33	23	39	38	41	25	34	38	-
R321	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	68	72	44	40	45	65	68	39	44	65	-
R322	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	81	85	30	44	28	78	80	44	27	77	N, V
R323	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	42	31	44	42	46	30	43	43	-
R324	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	38	28	44	42	46	27	40	43	-
R325	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	67	37	32	39	60	63	32	39	60	-
R326	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	67	37	37	33	60	62	37	31	59	-
R327	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	68	72	28	43	29	65	68	43	28	65	-
R328	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	66	32	40	33	59	61	40	33	58	-
R329	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	61	65	33	39	37	58	60	39	36	57	-
R330	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	42	31	44	42	46	31	44	43	-
R331	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	37	34	39	46	47	34	39	44	-
R332	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	60	64	27	40	27	57	59	40	25	56	-
R333	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	49	41	31	44	42	46	30	43	43	-
R334	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	57	61	36	36	38	54	56	35	38	53	-
R335	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	53	32	27	38	46	46	26	34	43	-
R336	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	53	57	49	30	51	50	53	30	50	50	-
R337	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	53	57	49	30	52	50	53	30	51	50	-
R338	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	54	58	50	33	53	51	54	33	53	51	-
R339	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	54	58	50	33	53	51	55	33	53	52	-
R340	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	54	58	50	33	53	51	54	33	53	51	-
R341	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	56	48	33	48	49	52	32	47	49	-
R342	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	56	48	33	48	49	53	32	47	50	-
R343	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	56	48	33	48	49	52	32	47	49	-
R344	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	31	48	45	48	31	47	45	-
R345	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	31	48	45	48	31	47	45	-
R346	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	31	48	45	48	31	47	45	-
R347	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	31	48	45	49	31	46	46	-
R348	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	31	48	45	49	31	46	46	-
R349	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	31	48	45	49	31	46	46	-
R350	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	29	44	42	45	29	44	42	-
R351	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	29	44	42	45	28	44	42	-
R352	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	31	47	44	50	31	46	47	-
R353	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	31	47	44	48	31	46	45	-
R354	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	31	47	44	48	31	46	45	-
R355	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	32	47	44	48	32	46	45	-
R356	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	32	47	44	48	32	46	45	-
R357	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	32	47	44	48	32	46	45	-
R358	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	32	47	45	48	32	46	45	-
R359	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	32	47	45	48	32	46	45	-
R360	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	32	47	45	48	32	46	45	-
R361	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	32	48	45	50	32	47	47	-
R362	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	32	48	45	48	32	47	45	-
R363	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	32	48	45	48	32	47	45	-
R364	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	36	47	45	49	35	47	46	-
R365	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	36	47	45	48	35	47	45	-
R366	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	36	47	45	48	35	47	45	-
R367	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	36	47	45	49	36	47	46	-
R368	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	36	47	45	49	36	47	46	-
R369	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	36	47	45	49	36	47	46	-
R370	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	36	47	45	48	36	47	45	-
R371	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	36	47	45	50	36	47	47	-
R372	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	36	47	45	48	36	47	45	-
R373	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	25	48	45	49	24	47	46	-
R374	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	26	47	45	48	25	46	45	-
R375	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	27	48	45	50	27	47	47	-
R376	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	27	48	45	49	27	47	46	-
R377	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	27	48	45	49	27	47	46	-
R378	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	28	48	45	49	28	47	46	-
R379	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	28	48	45	49	28	47	46	-
R380	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	28	48	45	49	28	47	46	-
R381	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	28	47	44	48	28	46	45	-
R382	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	28	47	44	48	28	46	45	-
R383	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	28	47	44	48	28	46	45	-
R384	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	29	45	43	50	28	44	47	-
R385	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	29	45	43	47	28	44	44	-
R386	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	29	45	43	47	28	44	44	-
R387	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	26	46	42	47	26	44	44	-
R388	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	25	44	41	46	25	43	43	-
R389	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R390	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R391	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R392	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	28	46	43	50	28	45	47	-
R393	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	28	46	43	47	28	45	44	-
R394	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	28	46	43	47	28	45	44	-
R395	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R396	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R397	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R398	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R399	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	47	28	45	44	-
R400	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	46	43	50	28	45	47	-
R401	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	46	43	48	28	45	45	-
R402	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	46	43	47	28	45	44	-
R403	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	46	43	47	28	45	44	-
R404	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	46	43	50	28	44	47	-
R405	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	46	43	47	29	44	44	-
R406	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	46	43	47	29	44	44	-
R407	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	29	45	42	46	29	44	43	-
R408	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	29	45	42	47	29	44	44	-

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:	Noticeable / Clearly audible	Moderately intrusive	Highly intrusive	Bold	Highly noise affected						
			Non-residential:	Exceeds noise management level										
R409	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	29	45	42	46	29	44	43	-
R410	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	31	47	45	48	31	46	45	-
R411	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	46	22	48	46	49	22	48	46	-
R412	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	32	47	45	48	23	47	45	-
R413	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	45	16	47	46	48	16	45	45	-
R414	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	27	45	43	47	27	44	44	-
R415	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	23	46	45	48	22	43	45	-
R416	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	24	45	42	46	26	43	43	-
R417	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	26	44	42	46	26	42	43	-
R418	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	27	47	44	48	27	46	45	-
R419	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	27	45	43	47	27	45	44	-
R420	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	31	44	43	46	23	42	43	-
R421	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	26	45	43	46	26	43	43	-
R422	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	45	43	46	28	45	43	-
R423	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	27	46	44	47	27	45	44	-
R424	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	25	44	42	45	25	43	42	-
R425	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	26	45	42	46	26	44	43	-
R426	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	29	44	42	46	28	44	43	-
R427	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	28	45	43	46	28	44	43	-
R428	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	26	43	41	44	25	43	41	-
R429	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	26	42	40	44	27	41	41	-
R430	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	31	44	41	44	31	43	41	-
R431	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	29	44	41	44	28	43	41	-
R432	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	27	43	41	45	27	42	42	-
R433	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	27	44	41	44	27	43	41	-
R434	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	34	46	44	48	28	46	45	-
R435	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	31	46	44	47	27	46	44	-
R436	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	25	45	43	46	25	45	43	-
R437	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	25	44	42	45	24	44	42	-
R438	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	32	46	44	47	28	45	44	-
R439	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	35	46	44	47	32	46	44	-
R440	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	22	44	44	47	22	42	44	-
R441	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	25	45	43	46	25	44	43	-
R442	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	35	45	44	47	34	45	44	-
R443	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	35	46	44	47	34	45	44	-
R444	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	27	45	43	46	27	44	43	-
R445	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	26	45	43	45	26	44	42	-
R446	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	35	45	44	47	32	45	44	-
R447	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	35	45	44	46	35	45	43	-
R448	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	26	44	42	45	26	43	42	-
R449	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	26	44	41	45	26	43	42	-
R450	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	35	45	43	46	29	45	43	-
R451	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	30	45	43	46	30	44	43	-
R452	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	27	44	42	45	26	43	42	-
R453	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	27	44	42	45	28	44	42	-
R454	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	31	45	42	45	30	44	42	-
R455	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	30	44	42	45	29	43	42	-
R456	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	29	45	42	45	29	43	42	-
R457	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	30	45	42	45	29	43	42	-
R458	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	30	44	42	45	30	43	42	-
R459	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	30	44	41	45	29	43	42	-
R460	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	31	43	41	44	30	42	41	-
R461	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	33	45	43	45	33	44	42	-
R462	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	28	43	40	44	28	42	41	-
R463	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	30	42	40	43	29	41	40	-
R464	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	31	45	43	46	31	44	43	-
R465	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	45	43	46	28	45	43	-
R466	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	23	43	42	45	23	43	42	-
R467	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	45	38	20	38	38	39	20	28	36	-
R468	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	29	45	43	46	28	45	43	-
R469	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	29	45	43	46	29	44	43	-
R470	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	25	43	41	44	25	43	41	-
R471	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	26	43	41	44	26	43	41	-
R472	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	30	44	43	46	29	44	43	-
R473	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	30	45	43	45	29	44	42	-
R474	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	28	44	42	45	28	44	42	-
R475	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	28	43	41	44	27	43	41	-
R476	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	30	44	43	46	30	44	43	-
R477	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	30	44	43	46	30	44	43	-
R478	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	26	43	41	44	26	42	41	-
R479	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	27	43	41	44	26	42	41	-
R480	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	31	44	42	45	30	43	42	-
R481	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	31	43	42	44	31	43	41	-
R482	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	29	44	42	44	29	43	41	-
R483	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	29	43	41	44	28	42	41	-
R484	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	32	44	42	45	31	44	42	-
R485	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	34	43	41	44	31	43	41	-
R486	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	27	43	40	43	27	41	40	-
R487	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	28	42	40	43	27	41	40	-
R488	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	35	43	41	44	31	42	41	-
R489	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	29	42	40	44	29	42	41	-
R490	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	32	42	41	44	32	42	41	-
R491	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	33	42	40	43	31	42	40	-
R492	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	28	42	40	43	27	41	40	-
R493	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	30	42	39	42	30	41	39	-
R494	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	30	47	45	48	30	46	45	-
R495	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	29	47	45	47	29	46	44	-
R496	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	30	44	43	45	30	42	42	-
R497	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	21	42	42	45	20	41	42	-
R498	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	29	47	45	48	29	47	45	-
R499	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	29	46	44	47	29	46	44	-
R500	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	22	44	42	45	20	42	42	-
R501	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	21	38	41	43	20	37	40	-
R502	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	28	43	42	45	28	42	42	-
R503	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	40	27	43	42	43	27	43	40	-
R504	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	21	42	40	43	19	42	40	-
R505	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	26	41	40	43	24	41	40	-
R506	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	51	41	27	43	43	45	27	43	42	-
R507	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	28	43	44	45	28	42	42	-
R508	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	25	42	40	43	24	42	40	-
R509	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	21	40	41	43	20	40	40	-
R510	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	28	43	44	45	27	43	42	-

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential: Noticeable / Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected											
			Non-residential:				Exceeds noise management level							
R511	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	28	44	42	44	28	44	41	-
R512	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	25	42	39	43	24	41	40	-
R513	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	25	42	40	43	25	41	40	-
R514	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	26	43	41	43	26	42	40	-
R515	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	29	44	42	45	28	43	42	-
R516	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	24	41	40	43	24	40	40	-
R517	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	25	42	40	43	25	42	40	-
R518	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	27	43	41	44	26	43	41	-
R519	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	29	44	41	44	28	43	41	-
R520	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	25	41	39	42	24	40	39	-
R521	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	25	42	40	43	24	42	40	-
R522	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	29	43	42	44	29	43	41	-
R523	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	30	43	41	44	29	43	41	-
R524	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	44	37	22	39	37	41	22	38	38	-
R525	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	26	42	39	43	25	41	40	-
R526	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	30	43	41	44	29	42	41	-
R527	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	30	43	41	44	29	42	41	-
R528	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	26	42	39	43	25	41	40	-
R529	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	26	41	39	42	25	40	39	-
R530	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	34	46	43	46	34	45	43	-
R531	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	34	43	41	44	35	42	41	-
R532	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	38	33	41	40	43	31	40	40	-
R533	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	30	42	40	44	29	40	41	-
R534	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	28	46	43	46	27	45	43	-
R535	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	22	45	42	47	22	44	44	-
R536	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	23	45	42	45	22	44	42	-
R537	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	<b>54</b>	36	37	29	47	50	36	29	47	-
R538	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	21	44	42	46	20	43	43	-
R539	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	41	25	44	43	47	24	42	44	-
R540	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	28	44	43	46	27	43	43	-
R541	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	<b>56</b>	30	39	32	49	52	38	30	49	-
R542	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	31	46	44	48	30	45	45	-
R543	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	31	46	44	47	30	45	44	-
R544	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	31	46	44	47	30	45	44	-
R545	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	35	45	43	48	35	45	45	-
R546	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	35	45	43	45	35	45	42	-
R547	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	35	45	43	45	35	45	42	-
R548	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	33	45	44	49	33	44	46	-
R549	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	33	45	44	48	33	44	45	-
R550	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	33	45	44	48	33	44	45	-
R551	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	36	45	44	48	35	45	45	-
R552	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	36	45	44	47	35	45	44	-
R553	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	36	45	44	47	35	45	44	-
R554	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	37	40	40	46	50	40	40	47	-
R555	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	35	46	43	47	35	45	44	-
R556	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	35	46	43	48	35	45	45	-
R557	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	35	46	43	47	35	45	44	-
R558	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	40	45	44	47	38	45	44	-
R559	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	40	45	44	48	38	45	45	-
R560	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	40	45	44	47	38	45	44	-
R561	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	41	45	44	48	41	45	45	-
R562	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	41	45	44	47	41	45	44	-
R563	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	43	41	45	44	47	41	45	44	-
R564	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	<b>56</b>	41	40	43	49	51	40	43	48	-
R565	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	<b>56</b>	41	40	43	49	52	40	43	49	-
R566	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	<b>56</b>	41	40	43	49	51	40	43	48	-
R567	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	45	35	27	38	38	42	25	37	39	-
R568	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	45	35	27	38	38	42	25	37	39	-
R569	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	45	35	27	38	38	45	25	37	42	-
R570	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	22	43	43	46	21	43	43	-
R571	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	36	30	39	41	43	29	38	40	-
R572	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	23	44	42	45	22	43	42	-
R573	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	40	21	43	39	44	20	42	41	-
R574	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	24	43	41	44	24	43	41	-
R575	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	23	43	40	44	22	42	41	-
R576	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	23	43	41	43	22	42	40	-
R577	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	40	23	43	41	44	22	42	41	-
R578	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	23	43	42	44	22	42	41	-
R579	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	24	43	41	45	23	42	42	-
R580	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	22	44	42	45	21	43	42	-
R581	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	23	43	41	45	22	43	42	-
R582	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	21	43	42	44	20	43	41	-
R583	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	29	37	34	45	46	36	32	43	-
R584	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	21	43	41	44	18	43	41	-
R585	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	25	42	40	43	24	42	40	-
R586	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	21	42	40	43	23	42	40	-
R587	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	43	35	31	40	36	42	29	38	39	-
R588	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	18	43	42	45	18	42	42	-
R589	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	40	25	42	42	43	24	42	40	-
R590	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	25	43	41	44	24	43	41	-
R591	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	27	40	40	43	26	39	40	-
R592	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	36	33	40	43	46	31	39	43	-
R593	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	28	41	39	42	26	40	39	-
R594	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	36	30	40	40	44	28	38	41	-
R595	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	34	42	40	43	33	41	40	-
R596	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	32	41	40	43	32	41	40	-
R597	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	24	42	40	43	23	41	40	-
R598	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	24	41	40	43	23	41	40	-
R599	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	43	33	45	43	46	32	45	43	-
R600	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	38	27	41	39	42	26	40	39	-
R601	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	45	38	23	41	38	42	23	40	39	-
R602	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	40	32	27	37	33	38	26	34	35	-
R603	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	41	19	44	42	45	19	43	42	-
R604	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	22	43	40	44	22	41	41	-
R605	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	42	35	32	38	35	39	31	35	36	-
R606	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	41	30	43	41	44	29	42	41	-
R607	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	41	34	27	37	34	38	26	35	35	-
R608	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	43	36	19	38	36	40	19	37	37	-
R609	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	43	36	23	39	36	40	22	37	37	-
R610	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	39	29	42	40	43	29	41	40	-
R611	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	17	41	39	42	17	40	39	-
R612	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	18	41	39	42	18	40	39	-

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:	Noticeable / Clearly audible	Moderately intrusive	Highly intrusive	Highly noise affected							
			Non-residential:	Exceeds noise management level										
R613	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	38	19	41	39	42	18	40	39	-
R614	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	29	41	39	42	28	40	39	-
R615	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	30	41	39	42	29	40	39	-
R616	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	38	26	41	39	42	26	41	39	-
R617	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	28	41	39	42	27	41	39	-
R618	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	32	41	39	42	31	41	39	-
R619	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	40	31	42	40	43	30	42	40	-
R620	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	28	41	39	42	28	41	39	-
R621	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	42	35	24	38	35	39	23	36	36	-
R622	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	30	42	39	43	30	41	40	-
R623	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	31	41	39	42	30	41	39	-
R624	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	44	37	28	40	37	41	27	39	38	-
R625	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	43	36	27	39	36	40	27	38	37	-
R626	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	39	31	41	39	42	30	41	39	-
R627	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	38	31	41	39	42	30	41	39	-
R628	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	42	34	27	38	35	39	26	36	36	-
R629	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	42	35	28	39	35	40	27	37	37	-
R630	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	38	36	40	42	45	36	40	42	-
R631	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	41	34	30	38	34	39	28	37	36	-
R632	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	46	38	37	40	39	42	37	40	39	-
R633	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	48	38	37	41	41	45	37	40	42	-
R634	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	47	32	27	36	40	43	24	33	40	-
R635	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	43	28	24	32	36	36	22	30	33	-
R636	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	46	28	47	46	49	28	44	46	-
R637	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	42	16	43	45	46	16	43	43	-
R638	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	42	21	44	45	45	21	44	42	-
R639	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	18	44	44	46	17	44	43	-
R640	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	46	17	49	47	50	16	49	47	-
R641	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	46	21	49	47	49	21	48	46	-
R642	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	46	21	49	47	49	21	48	46	-
R643	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	45	23	49	47	49	22	48	46	-
R644	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	56	48	18	51	49	51	18	50	48	-
R645	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	52	56	48	17	51	49	51	18	50	48	-
R646	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	51	55	47	17	50	48	51	16	50	48	-
R647	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	19	45	44	46	17	44	43	-
R648	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	42	14	44	44	46	14	43	43	-
R649	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	41	14	44	43	46	14	43	43	-
R650	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	41	14	44	43	46	14	43	43	-
R651	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	45	33	47	46	48	28	46	45	-
R652	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	16	44	43	46	15	44	43	-
R653	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	22	43	42	45	22	43	42	-
R654	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	49	42	22	44	42	46	21	43	43	-
R655	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	50	42	21	45	43	46	21	45	43	-
R656	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	46	16	48	46	49	15	46	46	-
R657	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	45	15	47	46	48	15	47	45	-
R658	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	15	47	45	48	15	48	45	-
R659	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	45	15	47	45	48	15	46	45	-
R660	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	22	47	45	48	22	46	45	-
R661	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	22	47	44	48	22	45	45	-
R662	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	47	51	44	22	46	44	47	22	44	44	-
R663	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	48	52	44	22	44	45	47	21	44	44	-
R664	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	46	17	49	47	49	16	49	46	-
R665	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	46	15	48	46	49	15	48	46	-
R666	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	49	53	46	16	48	46	49	15	48	46	-
R667	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	46	15	49	47	49	15	48	46	-
R668	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	45	16	46	47	48	16	45	45	-
R669	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	50	54	46	18	49	47	49	18	49	46	-
R670	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	51	55	47	16	50	48	50	16	49	47	-
R671	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	51	55	48	16	50	48	51	16	50	48	-
R672	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	51	55	48	34	50	48	51	34	50	48	-
R673	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	51	55	47	16	49	48	51	16	49	48	-
R674	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	53	57	49	17	52	50	52	17	51	49	-
R675	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	53	57	49	18	52	50	53	17	51	50	-
R676	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	53	57	50	18	52	50	53	17	51	50	-
R677	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	54	58	50	18	52	51	53	18	51	50	-
R678	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	54	58	50	18	52	51	53	18	51	50	-
R679	19 BIRKDALE STREET COLEBEE	Residential	NCA03	45	49	27	40	29	42	45	40	29	42	-
R680	10 BIRKDALE STREET COLEBEE	Residential	NCA03	42	46	34	39	37	39	42	38	36	39	-
R681	14 BIRKDALE STREET COLEBEE	Residential	NCA03	43	47	30	40	32	40	43	39	32	40	-
R682	5 BIRKDALE STREET COLEBEE	Residential	NCA03	44	48	24	40	24	41	43	40	23	40	-
R683	16 BIRKDALE STREET COLEBEE	Residential	NCA03	43	47	31	39	34	40	44	39	33	41	-
R684	8 BIRKDALE STREET COLEBEE	Residential	NCA03	37	41	30	33	31	34	38	33	32	35	-
R685	9 BIRKDALE STREET COLEBEE	Residential	NCA03	43	47	23	38	23	40	42	38	22	39	-
R686	15 BIRKDALE STREET COLEBEE	Residential	NCA03	46	50	28	39	29	43	46	38	28	43	-
R687	18 BIRKDALE STREET COLEBEE	Residential	NCA03	46	50	29	39	31	43	46	39	30	43	-
R688	20 BIRKDALE STREET COLEBEE	Residential	NCA03	44	48	28	42	30	41	44	41	27	41	-
R689	4 BIRKDALE STREET COLEBEE	Residential	NCA03	41	46	28	40	30	38	44	39	29	41	-
R690	17 BIRKDALE STREET COLEBEE	Residential	NCA03	47	51	28	39	32	44	46	39	30	43	-
R691	11 BIRKDALE STREET COLEBEE	Residential	NCA03	43	47	24	38	26	40	44	38	25	41	-
R692	21 BIRKDALE STREET COLEBEE	Residential	NCA03	44	48	27	42	27	41	43	41	29	40	-
R693	7 BIRKDALE STREET COLEBEE	Residential	NCA03	43	47	22	39	22	40	42	39	21	39	-
R694	3 BIRKDALE STREET COLEBEE	Residential	NCA03	43	47	27	39	29	40	43	38	29	40	-
R695	6 BIRKDALE STREET COLEBEE	Residential	NCA03	41	45	21	38	23	38	41	37	22	38	-
R696	13 BIRKDALE STREET COLEBEE	Residential	NCA03	44	48	29	39	30	41	44	39	30	41	-
R697	2 BIRKDALE STREET COLEBEE	Residential	NCA03	43	47	29	37	32	40	44	37	30	41	-
R698	13 DIAMANTE COURT COLEBEE	Residential	NCA03	49	53	29	49	32	46	49	49	31	46	-
R699	5 DIAMANTE COURT COLEBEE	Residential	NCA03	48	52	30	48	32	45	47	48	32	44	-
R700	3 DIAMANTE COURT COLEBEE	Residential	NCA03	46	50	28	46	33	43	47	46	30	44	-
R701	4 DIAMANTE COURT COLEBEE	Residential	NCA03	43	47	29	40	31	40	43	39	30	40	-
R702	4 DIAMANTE COURT COLEBEE	Residential	NCA03	44	48	13	44	13	41	44	44	13	41	-
R703	11 DIAMANTE COURT COLEBEE	Residential	NCA03	44	48	29	46	31	41	46	46	31	43	-
R704	9 DIAMANTE COURT COLEBEE	Residential	NCA03	49	53	30	49	33	46	50	49	32	47	-
R705	9 DIAMANTE COURT COLEBEE	Residential	NCA03	45	49	30	45	33	42	46	45	33	43	-
R706	15 DIAMANTE COURT COLEBEE	Residential	NCA03	49	53	28	49	21	46	50	49	20	47	-
R707	6 KINGSBARN STREET COLEBEE	Residential	NCA03	44	48	20	46	22	41	45	44	22	42	-
R708	4 KINGSBARN STREET COLEBEE	Residential	NCA03	45	49	25	39	28	42	45	39	26	42	-
R709	5 KINGSBARN STREET COLEBEE	Residential	NCA03	42	46	28	44	29	39	42	44	30	39	-
R710	8 KINGSBARN STREET COLEBEE	Residential	NCA03	46	50	24	42	26	43	46	40	25	43	-
R711	10 KINGSBARN STREET COLEBEE	Residential	NCA03	46	50	27	39	31	43	46	39	29	43	-
R712	7 KINGSBARN STREET COLEBEE	Residential	NCA03	42	46	21	44	29	39	42	44	19	39	-
R713	9 KINGSBARN STREET COLEBEE	Residential	NCA03	43	47	16	43	16	40	43	42	16	40	-
R714	3 KINGSBARN STREET COLEBEE	Residential	NCA03	42	46	28	44	25	39	42	44	30	39	-



Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:	Noticeable / Clearly audible	Moderately intrusive	Highly intrusive	Highly noise affected							
			Non-residential:	Exceeds noise management level										
R715	6 MAJORS AVENUE COLEBEE	Residential	NCA03	38	42	25	35	28	35	38	34	27	35	-
R716	8 MAJORS AVENUE COLEBEE	Residential	NCA03	41	45	38	40	41	38	42	40	40	39	-
R717	5 MAJORS AVENUE COLEBEE	Residential	NCA03	38	42	31	38	33	35	38	33	35	35	-
R718	3 MAJORS AVENUE COLEBEE	Residential	NCA03	44	48	36	39	39	41	43	39	39	40	-
R719	1 MAJORS AVENUE COLEBEE	Residential	NCA03	41	45	38	37	40	38	41	37	39	38	-
R720	5 MAJORS AVENUE COLEBEE	Residential	NCA03	41	45	38	39	40	38	41	39	39	38	-
R721	15 MASTERS CIRCUIT COLEBEE	Residential	NCA03	45	49	37	42	39	42	45	42	38	42	-
R722	22 MASTERS CIRCUIT COLEBEE	Residential	NCA03	46	50	38	39	40	43	46	39	39	43	-
R723	11 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	45	19	41	19	38	43	40	20	40	-
R724	8 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	45	21	40	22	38	41	40	21	38	-
R725	14 MASTERS CIRCUIT COLEBEE	Residential	NCA03	42	46	32	42	33	39	42	42	27	39	-
R726	10 MASTERS CIRCUIT COLEBEE	Residential	NCA03	45	49	38	41	40	42	45	41	39	42	-
R727	18 MASTERS CIRCUIT COLEBEE	Residential	NCA03	46	50	40	39	41	43	46	38	41	43	-
R728	12 MASTERS CIRCUIT COLEBEE	Residential	NCA03	40	44	32	40	34	37	41	40	33	38	-
R729	6 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	45	21	41	23	38	42	41	21	39	-
R730	20 MASTERS CIRCUIT COLEBEE	Residential	NCA03	44	48	38	39	40	41	43	39	39	40	-
R731	17 MASTERS CIRCUIT COLEBEE	Residential	NCA03	45	49	37	42	39	42	45	41	39	42	-
R732	4 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	45	20	41	23	38	43	41	22	40	-
R733	11 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	45	19	40	21	38	43	40	20	40	-
R734	2 MASTERS CIRCUIT COLEBEE	Residential	NCA03	43	47	21	42	21	40	42	42	20	39	-
R735	11 MASTERS CIRCUIT COLEBEE	Residential	NCA03	39	43	21	40	21	36	43	40	20	40	-
R736	67 MEDALLIST PARADE COLEBEE	Residential	NCA03	45	49	32	43	35	42	45	43	32	42	-
R737	76 MEDALLIST PARADE COLEBEE	Residential	NCA03	43	47	17	43	19	40	44	44	17	41	-
R738	29 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	30	42	33	43	46	42	32	43	-
R739	37 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	26	42	27	43	46	42	27	43	-
R740	66 OAKHILL CRESCENT COLEBEE	Residential	NCA03	49	53	23	46	24	46	48	46	24	45	-
R741	9 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	49	26	35	28	42	45	33	27	42	-
R742	43 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	46	17	43	17	39	42	42	16	39	-
R743	21 OAKHILL CRESCENT COLEBEE	Residential	NCA03	47	51	32	47	35	44	47	47	35	44	-
R744	25 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	29	43	32	43	46	43	31	43	-
R745	39 OAKHILL CRESCENT COLEBEE	Residential	NCA03	47	51	25	42	27	44	48	42	27	45	-
R746	46 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	25	45	30	43	46	45	23	43	-
R747	48 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	20	44	23	43	46	44	22	43	-
R748	28 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	25	42	26	41	44	42	25	41	-
R749	1 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	44	22	39	24	37	40	39	23	37	-
R750	12 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	49	26	43	28	42	45	43	28	42	-
R751	17 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	30	46	33	43	46	43	32	43	-
R752	13 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	28	45	32	43	46	43	30	43	-
R753	49 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	34	44	37	45	48	44	36	45	-
R754	23 OAKHILL CRESCENT COLEBEE	Residential	NCA03	47	51	31	45	34	44	47	44	33	44	-
R755	8 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	49	24	41	27	42	45	41	26	42	-
R756	10 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	49	25	41	27	42	45	41	27	42	-
R757	52 OAKHILL CRESCENT COLEBEE	Residential	NCA03	47	51	30	42	32	44	47	42	32	44	-
R758	18 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	47	26	43	28	40	43	42	27	40	-
R759	26 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	49	25	46	27	42	46	45	26	43	-
R760	50 OAKHILL CRESCENT COLEBEE	Residential	NCA03	47	51	19	44	21	44	47	44	20	44	-
R761	11 OAKHILL CRESCENT COLEBEE	Residential	NCA03	47	51	34	45	36	44	47	45	36	44	-
R762	31 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	32	45	34	43	46	45	34	43	-
R763	40 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	18	46	29	43	47	46	19	44	-
R764	54 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	31	44	33	45	47	44	33	44	-
R765	38 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	25	47	22	43	47	47	21	44	-
R766	22 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	25	45	27	41	44	44	26	41	-
R767	4 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	25	43	27	41	44	43	26	41	-
R768	28 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	19	42	21	41	44	42	21	41	-
R769	47 OAKHILL CRESCENT COLEBEE	Residential	NCA03	49	53	32	44	34	46	49	44	34	46	-
R770	32 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	20	46	22	41	46	46	22	43	-
R771	36 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	23	46	26	43	46	46	25	43	-
R772	14 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	30	41	31	41	44	41	32	41	-
R773	68 OAKHILL CRESCENT COLEBEE	Residential	NCA03	49	53	21	46	24	46	49	46	23	46	-
R774	44 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	28	46	31	43	46	46	30	43	-
R775	24 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	26	42	27	41	44	41	27	41	-
R776	42 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	49	18	46	20	42	46	46	19	43	-
R777	20 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	47	26	45	28	40	44	45	27	41	-
R778	58 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	29	44	31	45	48	44	30	45	-
R779	56 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	29	45	32	45	48	45	31	45	-
R780	60 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	30	45	31	45	48	45	31	45	-
R781	62 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	29	45	31	45	48	45	31	45	-
R782	62 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	25	46	29	45	48	46	27	45	-
R783	45 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	33	39	35	45	48	37	34	45	-
R784	51 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	34	40	37	43	46	37	36	43	-
R785	34 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	20	46	22	41	46	45	22	43	-
R786	35 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	31	42	33	43	47	43	33	44	-
R787	19 OAKHILL CRESCENT COLEBEE	Residential	NCA03	48	52	34	47	36	45	49	47	34	46	-
R788	27 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	49	18	46	19	42	46	46	18	43	-
R789	4 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	47	25	41	27	40	43	41	27	40	-
R790	2 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	46	29	41	32	39	42	40	32	39	-
R791	5 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	44	24	39	27	37	40	38	27	37	-
R792	16 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	28	40	30	41	44	39	30	41	-
R793	7 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	16	44	18	41	45	44	17	42	-
R794	33 OAKHILL CRESCENT COLEBEE	Residential	NCA03	47	51	31	44	34	44	47	43	33	44	-
R795	41 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	48	20	45	17	41	46	45	16	43	-
R796	3 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	47	20	42	22	40	43	42	21	40	-
R797	15 OAKHILL CRESCENT COLEBEE	Residential	NCA03	46	50	31	45	33	43	47	43	33	44	-
R798	16 PINEHURST STREET COLEBEE	Residential	NCA03	41	45	26	38	27	38	42	37	26	39	-
R799	5 PINEHURST STREET COLEBEE	Residential	NCA03	39	43	23	41	20	36	40	38	23	37	-
R800	12 PINEHURST STREET COLEBEE	Residential	NCA03	43	47	33	39	36	40	44	38	34	41	-
R801	14 PINEHURST STREET COLEBEE	Residential	NCA03	42	46	32	39	33	39	42	38	33	39	-
R802	11 PINEHURST STREET COLEBEE	Residential	NCA03	41	46	23	39	24	38	43	39	23	40	N, V
R803	6 PINEHURST STREET COLEBEE	Residential	NCA03	43	47	34	32	36	40	44	32	35	41	-
R804	11 PINEHURST STREET COLEBEE	Residential	NCA03	42	46	29	41	32	39	42	41	31	39	-
R805	11 PINEHURST STREET COLEBEE	Residential	NCA03	41	45	34	38	37	38	41	38	35	38	-
R806	3 PINEHURST STREET COLEBEE	Residential	NCA03	42	46	31	43	34	39	45	43	33	42	N, V
R807	5 PINEHURST STREET COLEBEE	Residential	NCA03	42	46	33	43	36	39	44	43	35	41	-
R808	8 PINEHURST STREET COLEBEE	Residential	NCA03	42	46	31	33	34	39	42	32	33	39	N, V, PC, RO
R809	10 PINEHURST STREET COLEBEE	Residential	NCA03	43	47	33	40	35	40	43	38	35	40	-
R810	7 PINEHURST STREET COLEBEE	Residential	NCA03	42	46	34	36	37	39	42	35	36	39	-
R811	34 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	52	56	31	50	35	49	52	50	33	49	-
R812	41 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	69	73	43	43	45	66	69	43	45	66	-
R813	20 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	49	53	18	47	19	46	50	47	18	47	N, V
R814	21 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	53	57	36	46	37	50	54	46	37	51	-
R815														

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:		Noticeable / Clearly audible		Moderately intrusive		Highly intrusive		Bold		Highly noise affected	
			Non-residential:		Exceeds noise management level									
R817	28 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	52	56	28	50	32	49	52	50	31	49	-
R818	68 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	77	81	38	45	36	74	77	45	34	74	N, V
R819	7 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	42	46	20	44	19	39	43	44	20	40	N, V
R820	17 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	53	57	20	49	22	50	53	49	20	50	N, V
R821	23 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	54	58	38	46	40	51	54	46	39	51	N, V
R822	25 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	53	57	39	46	42	50	54	46	41	51	-
R823	37 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	65	69	38	45	41	62	65	45	40	62	-
R824	13 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	39	43	18	41	19	36	40	41	18	37	N, V
R825	32 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	56	60	38	51	41	53	56	51	40	53	N, V
R826	54 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	61	65	33	50	35	58	60	50	35	57	-
R827	17 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	54	58	34	50	37	51	54	50	36	51	N, V
R828	60 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	63	67	38	49	42	60	63	49	39	60	-
R829	62 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	62	66	39	49	39	59	62	49	37	59	-
R830	56 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	61	65	33	49	34	58	60	49	33	57	-
R831	58 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	63	67	37	49	38	60	63	49	37	60	-
R832	30 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	56	60	34	52	36	53	56	52	36	53	N, V
R833	19 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	54	58	34	48	37	51	54	49	37	51	-
R834	64 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	62	66	40	49	42	59	64	49	40	61	-
R835	52 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	60	64	30	50	33	57	59	50	28	56	-
R836	35 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	48	52	22	43	22	45	48	42	21	45	-
R837	68 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	65	69	40	38	43	62	66	38	42	63	-
R838	26 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	51	55	19	48	19	48	51	48	18	48	-
R839	13 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	39	43	18	42	18	36	40	42	17	37	-
R840	38 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	54	58	33	49	34	51	54	49	34	51	-
R841	3 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	44	48	18	43	19	41	44	43	18	41	-
R842	39 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	63	67	26	35	25	60	63	35	24	60	-
R843	46 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	55	59	31	46	33	52	55	46	32	52	-
R844	48 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	55	59	30	45	32	52	55	45	32	52	-
R845	50 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	56	60	26	45	28	53	55	45	26	52	-
R846	27 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	49	53	27	42	29	46	49	40	28	46	-
R847	22 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	54	18	47	18	47	50	47	17	47	N, V
R848	44 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	55	59	27	46	29	52	54	46	28	51	-
R849	33 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	51	55	31	41	31	48	51	41	31	48	-
R850	24 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	54	19	47	19	47	50	47	18	47	-
R851	29 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	49	53	34	43	36	46	50	41	36	47	-
R852	31 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	54	33	41	35	47	50	41	35	47	-
R853	5 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	43	47	18	44	21	40	44	43	18	41	-
R854	25 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	47	51	39	42	40	44	48	41	38	45	-
R855	15 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	40	44	18	42	21	37	40	42	20	37	-
R856	9 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	41	45	24	41	26	38	39	41	26	36	-
R857	66 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	70	74	39	47	34	67	71	47	32	68	-
R858	18 VALDERRAMA STREET COLEBEE	Residential	NCA03	48	52	41	41	41	45	48	41	41	45	-
R859	20 VALDERRAMA STREET COLEBEE	Residential	NCA03	47	51	40	41	42	44	47	41	41	44	-
R860	19 VALDERRAMA STREET COLEBEE	Residential	NCA03	44	48	38	39	40	41	44	39	40	41	-
R861	21 VALDERRAMA STREET COLEBEE	Residential	NCA03	43	47	40	40	41	40	43	40	41	40	-
R862	14 VALDERRAMA STREET COLEBEE	Residential	NCA03	42	46	32	41	33	39	46	40	33	43	-
R863	22 VALDERRAMA STREET COLEBEE	Residential	NCA03	44	48	30	21	33	41	39	23	32	36	N, V
R864	8 VALDERRAMA STREET COLEBEE	Residential	NCA03	42	46	36	42	38	39	46	42	38	43	N, V
R865	4 VALDERRAMA STREET COLEBEE	Residential	NCA03	44	48	29	43	29	41	45	41	28	42	-
R866	17 VALDERRAMA STREET COLEBEE	Residential	NCA03	45	49	33	40	35	42	45	39	34	42	-
R867	6 VALDERRAMA STREET COLEBEE	Residential	NCA03	43	47	19	42	21	40	43	41	19	40	-
R868	12 VALDERRAMA STREET COLEBEE	Residential	NCA03	41	45	35	41	38	38	44	40	37	41	-
R869	10 VALDERRAMA STREET COLEBEE	Residential	NCA03	45	49	35	42	37	42	47	42	37	44	-
R870	20 VICTORY ROAD COLEBEE	Residential	NCA03	41	45	33	27	32	38	38	27	35	35	-
R871	14 VICTORY ROAD COLEBEE	Residential	NCA03	41	45	27	37	30	38	44	36	29	41	-
R872	40 VICTORY ROAD COLEBEE	Residential	NCA03	56	60	40	30	44	53	56	30	43	53	-
R873	44 VICTORY ROAD COLEBEE	Residential	NCA03	62	66	43	32	44	59	62	35	43	59	-
R874	42 VICTORY ROAD COLEBEE	Residential	NCA03	61	65	42	29	43	58	60	28	42	57	-
R875	38 VICTORY ROAD COLEBEE	Residential	NCA03	57	61	41	25	43	54	56	26	42	53	-
R876	36 VICTORY ROAD COLEBEE	Residential	NCA03	47	51	27	42	26	44	47	42	24	44	-
R877	24 VICTORY ROAD COLEBEE	Residential	NCA03	32	36	27	29	28	29	32	29	27	29	-
R878	34 VICTORY ROAD COLEBEE	Residential	NCA03	41	45	24	36	26	38	41	36	24	38	-
R879	12 VICTORY ROAD COLEBEE	Residential	NCA03	37	41	31	32	35	34	38	30	33	35	-
R880	32 VICTORY ROAD COLEBEE	Residential	NCA03	37	41	30	35	35	34	38	34	33	35	-
R881	48 VICTORY ROAD COLEBEE	Residential	NCA03	43	47	36	31	39	40	44	29	38	41	-
R882	46 VICTORY ROAD COLEBEE	Residential	NCA03	46	50	32	34	34	43	46	33	34	43	-
R883	50 VICTORY ROAD COLEBEE	Residential	NCA03	44	48	35	31	38	41	45	31	37	42	-
R884	16 VICTORY ROAD COLEBEE	Residential	NCA03	39	43	34	36	38	36	40	34	36	37	-
R885	28 VICTORY ROAD COLEBEE	Residential	NCA03	50	54	39	33	41	47	48	33	41	45	-
R886	22 VICTORY ROAD COLEBEE	Residential	NCA03	35	39	31	24	34	32	35	24	32	32	-
R887	30 VICTORY ROAD COLEBEE	Residential	NCA03	45	49	31	36	33	42	44	35	32	41	-
R888	18 VICTORY ROAD COLEBEE	Residential	NCA03	44	48	37	30	40	41	45	30	39	42	-
R889	3 WOODHALL CLOSE COLEBEE	Residential	NCA03	41	45	16	37	18	38	41	36	17	38	-
R890	4 WOODHALL CLOSE COLEBEE	Residential	NCA03	46	50	17	42	19	43	46	42	18	43	-
R891	9 WOODHALL CLOSE COLEBEE	Residential	NCA03	42	46	33	29	36	39	40	28	36	37	-
R892	5 WOODHALL CLOSE COLEBEE	Residential	NCA03	41	45	34	41	36	38	43	41	36	40	-
R893	6 WOODHALL CLOSE COLEBEE	Residential	NCA03	40	44	32	34	33	37	40	33	33	37	-
R894	9 WOODHALL CLOSE COLEBEE	Residential	NCA03	39	43	32	36	34	36	39	36	34	36	-
R895	75 TOWNSON ROAD SCHOFIELDS	Industrial	NCA03	60	64	22	53	21	57	59	53	19	56	-
R896	75 TOWNSON ROAD SCHOFIELDS	Industrial	NCA03	75	79	50	46	47	72	78	46	46	95	N, V, PC, RO
R897	75 TOWNSON ROAD SCHOFIELDS	Industrial	NCA03	57	61	41	52	39	54	55	52	39	52	-
R898	75 TOWNSON ROAD SCHOFIELDS	Industrial	NCA03	59	63	46	47	45	56	62	47	45	59	-
R899	75 TOWNSON ROAD SCHOFIELDS	Industrial	NCA03	63	67	47	44	45	60	75	44	44	72	N, V
R900	588 ANGUS ROAD SCHOFIELDS	Residential	NCA04	42	46	25	37	25	39	41	37	25	38	N, V
R901	46 ANGUS ROAD SCHOFIELDS	Residential	NCA04	42	46	29	36	29	39	41	36	29	38	-
R902	27 ANGUS ROAD SCHOFIELDS	Residential	NCA04	42	46	28	36	28	39	41	36	28	38	-
R903	45 ANGUS ROAD SCHOFIELDS	Residential	NCA04	44	48	29	37	29	41	42	37	29	39	-
R904	35 ANGUS ROAD SCHOFIELDS	Residential	NCA04	43	47	29	36	29	40	41	36	28	38	-
R905	24 ANGUS ROAD SCHOFIELDS	Residential	NCA04	39	43	27	34	27	36	38	34	27	35	-
R906	26 ANGUS ROAD SCHOFIELDS	Residential	NCA04	41	45	27	35	28	38	40	35	28	37	-
R907	21 ANGUS ROAD SCHOFIELDS	Residential	NCA04	42	46	27	35	28	39	40	35	27	37	N, V, PC, RO
R908	30 ANGUS ROAD SCHOFIELDS	Residential	NCA04	41	45	28	35	28	38	39	35	28	36	-
R909	1 DURHAM ROAD SCHOFIELDS	Residential	NCA04	43	47	28	39	30	40	44	39	30	41	-
R910	22 DURHAM ROAD SCHOFIELDS	Residential	NCA04	50	54	33	46	33	47	52	46	33	49	N, V, PC, RO
R911	61 DURHAM ROAD SCHOFIELDS	Residential	NCA04	72	76	29	48	27	69	66	48	27	63	N, V
R912	43 DURHAM ROAD SCHOFIELDS	Residential	NCA04	55	59	32	45	32	52	53	45	32	50	-
R913	14 DURHAM ROAD SCHOFIELDS	Residential	NCA04	45	49	32	41	33	42	46	41	32	43	N, V, PC, RO
R914	55 DURHAM ROAD SCHOFIELDS	Residential	NCA04	68	72	31	47	31	65	68	47	29	55	N, V
R915	43 DURHAM ROAD SCHOFIELDS	Residential	NCA04	61	65	31	45	31	58	61	45	31	50	-
R916	34 DURHAM ROAD SCHOFIELDS	Residential	NCA04	48	52	32	44	32	45	52	44	32	49	-
R917	14 DURHAM ROAD SCHOFIELDS	Residential	NCA04	47	51	14	37	14	44	43	37	13	40	-
R918	4 DURHAM ROAD SCHOFIELDS	Educ												

Predicted construction noise levels: Standard construction hours

Receiver ID	Address	Receiver Type	NCA	CS01	CS02	CS03	CS04	CS05	CS06	CS08	CS09	CS10	CS11	Additional management measures
			Residential:		Noticeable / Clearly audible		Moderately intrusive		Highly intrusive		Bold		Highly noise affected	
			Non-residential:		Exceeds noise management level									
R919	26 DURHAM ROAD SCHOFIELDS	Residential	NCA04	48	52	32	42	32	45	49	42	32	46	-
R920	19 DURHAM ROAD SCHOFIELDS	Residential	NCA04	47	51	29	40	31	44	46	40	31	43	-
R921	27 DURHAM ROAD SCHOFIELDS	Residential	NCA04	49	53	29	42	32	46	49	42	31	46	-
R922	39 DURHAM ROAD SCHOFIELDS	Residential	NCA04	51	55	31	44	32	48	51	44	32	48	-
R923	61 DURHAM ROAD SCHOFIELDS	Residential	NCA04	75	79	32	49	32	72	66	49	32	63	-
R924	4 DURHAM ROAD SCHOFIELDS	Residential	NCA04	45	49	15	37	17	42	42	37	16	39	-
R925	8 DURHAM ROAD SCHOFIELDS	Residential	NCA04	44	48	31	38	29	41	44	38	29	41	-
R926	46 DURHAM ROAD SCHOFIELDS	Residential	NCA04	107	105	30	53	30	104	91	53	30	88	-
R927	25 JERSEY ROAD SCHOFIELDS	Residential	NCA04	57	61	28	46	28	54	57	46	28	54	-
R928	12 JERSEY ROAD SCHOFIELDS	Residential	NCA04	53	57	29	46	29	50	53	46	29	50	-
R929	42 JERSEY ROAD SCHOFIELDS	Residential	NCA04	77	81	30	51	30	74	86	51	29	83	-
R930	32 JERSEY ROAD SCHOFIELDS	Residential	NCA04	61	65	15	35	16	58	55	35	15	52	-
R931	15 JERSEY ROAD SCHOFIELDS	Residential	NCA04	52	56	25	45	26	49	53	45	26	50	-
R932	9 JERSEY ROAD SCHOFIELDS	Residential	NCA04	54	58	29	46	29	51	54	46	29	51	-
R933	7 KERRY ROAD SCHOFIELDS	Residential	NCA04	41	45	26	34	27	38	43	34	26	40	-
R934	83 KERRY ROAD SCHOFIELDS	Residential	NCA04	47	51	25	41	26	44	47	41	26	44	-
R935	17 KERRY ROAD SCHOFIELDS	Residential	NCA04	42	46	26	35	27	39	41	35	27	38	-
R936	3 KERRY ROAD SCHOFIELDS	Residential	NCA04	40	44	26	34	27	37	40	34	26	37	-
R937	23 KERRY ROAD SCHOFIELDS	Residential	NCA04	45	49	26	36	27	42	45	36	27	42	-
R938	87 KERRY ROAD SCHOFIELDS	Residential	NCA04	49	53	28	43	28	46	46	43	28	43	N, V, PC, RO
R939	55 KERRY ROAD SCHOFIELDS	Residential	NCA04	48	52	24	41	24	45	47	41	24	44	N, V
R940	77 KERRY ROAD SCHOFIELDS	Residential	NCA04	48	52	27	42	27	45	48	42	27	45	-
R941	44 KERRY ROAD SCHOFIELDS	Residential	NCA04	52	56	28	40	29	49	51	40	29	48	-
R942	73-73 KERRY ROAD SCHOFIELDS	Residential	NCA04	48	52	27	42	27	45	48	42	27	45	-
R943	28 KERRY ROAD SCHOFIELDS	Residential	NCA04	49	53	27	38	28	46	48	38	28	45	-
R944	73 KERRY ROAD SCHOFIELDS	Residential	NCA04	48	52	27	42	27	45	48	42	27	45	-
R945	61 KERRY ROAD SCHOFIELDS	Residential	NCA04	46	50	21	41	24	43	48	41	24	45	-
R946	29 KERRY ROAD SCHOFIELDS	Residential	NCA04	46	50	27	36	26	43	46	36	25	43	-
R947	77 KERRY ROAD SCHOFIELDS	Residential	NCA04	49	53	27	42	28	46	49	42	27	46	-
R948	45 KERRY ROAD SCHOFIELDS	Residential	NCA04	48	52	27	37	27	45	47	37	27	44	-
R949	65 KERRY ROAD SCHOFIELDS	Residential	NCA04	46	50	24	41	25	43	46	41	25	43	-
R950	60 KERRY ROAD SCHOFIELDS	Residential	NCA04	50	54	28	42	28	47	50	42	28	47	-
R951	101 KERRY ROAD SCHOFIELDS	Residential	NCA04	50	54	28	44	29	47	50	44	28	47	-
R952	97 KERRY ROAD SCHOFIELDS	Residential	NCA04	50	54	28	44	28	47	50	44	28	47	-
R953	52 KERRY ROAD SCHOFIELDS	Residential	NCA04	50	54	25	41	25	47	49	41	25	46	-
R954	5 MEADOW ROAD SCHOFIELDS	Residential	NCA04	72	76	30	54	30	69	65	54	30	62	N, V
R955	10 MEADOW ROAD SCHOFIELDS	Residential	NCA04	56	60	30	50	31	53	59	50	30	56	N, V
R956	STONECUTTERS RIDGE GOLF CLUB	Passive recreation	NCA03	77	81	39	48	40	74	71	48	39	68	N

# **Appendix E** – Predicted construction noise levels – OOHW2 (night) works

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: <span style="color: #FF69B4;">Noticeable</span> <span style="color: #90EE90;">Clearly audible</span> <span style="color: #90EE90;">Moderately intrusive</span> <span style="color: #FFD700;">Highly intrusive</span> <span style="color: #FF0000;">Bold</span> Highly noise affected Non-residential: <span style="color: #FF0000;">Exceeds noise management level</span> <span style="color: #FFD700;">Exceeds sleep disturbance criteria (65 dBA at residences)</span>								
R034	35 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	49	52	50	53	V, N, R2, DR
R035	51 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	54	57	55	58	V, N, R2, DR
R036	9 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	43	46	44	47	N
R037	55 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	57	60	58	61	V, IB, N, PC, SN, R2, DR
R038	63 TOWNSON ROAD MARSDEN PARK	Residential	NCA01	66	69	66	69	V, IB, N, PC, SN, R2, DR
R039	23 ALDERTON DRIVE COLEBEE	Residential	NCA02	36	39	36	39	-
R040	17 ALDERTON DRIVE COLEBEE	Residential	NCA02	32	35	34	37	-
R041	5 ALDERTON DRIVE COLEBEE	Residential	NCA02	35	38	36	39	-
R042	21 ALDERTON DRIVE COLEBEE	Residential	NCA02	36	39	36	39	-
R043	19 ALDERTON DRIVE COLEBEE	Residential	NCA02	35	38	36	39	-
R044	15 ALDERTON DRIVE COLEBEE	Residential	NCA02	35	38	36	39	-
R045	25 ALDERTON DRIVE COLEBEE	Residential	NCA02	35	38	36	39	-
R046	11 ALDERTON DRIVE COLEBEE	Residential	NCA02	34	37	35	38	-
R047	9 ALDERTON DRIVE COLEBEE	Residential	NCA02	34	37	34	37	-
R048	13 ALDERTON DRIVE COLEBEE	Residential	NCA02	34	37	35	38	-
R049	7 ALDERTON DRIVE COLEBEE	Residential	NCA02	36	39	37	40	-
R050	19 COOMBELL AVENUE COLEBEE	Residential	NCA02	35	38	36	39	-
R051	17 COOMBELL AVENUE COLEBEE	Residential	NCA02	34	37	35	38	-
R052	1 COOMBELL AVENUE COLEBEE	Residential	NCA02	35	38	37	40	-
R053	3 COOMBELL AVENUE COLEBEE	Residential	NCA02	25	28	28	31	-
R054	7 COOMBELL AVENUE COLEBEE	Residential	NCA02	30	33	31	34	-
R055	11 COOMBELL AVENUE COLEBEE	Residential	NCA02	35	38	35	38	-
R056	3 COOMBELL AVENUE COLEBEE	Residential	NCA02	37	40	37	40	-
R057	11 COOMBELL AVENUE COLEBEE	Residential	NCA02	31	34	31	34	-
R058	7 COOMBELL AVENUE COLEBEE	Residential	NCA02	36	39	36	39	-
R059	5 COOMBELL AVENUE COLEBEE	Residential	NCA02	37	40	37	40	-
R060	3 COOMBELL AVENUE COLEBEE	Residential	NCA02	35	38	37	40	-
R061	2 COOMBELL AVENUE COLEBEE	Residential	NCA02	35	38	37	40	-
R062	9 COOMBELL AVENUE COLEBEE	Residential	NCA02	33	36	34	37	-
R063	8 COOMBELL AVENUE COLEBEE	Residential	NCA02	36	39	37	40	-
R064	10 COOMBELL AVENUE COLEBEE	Residential	NCA02	33	36	33	36	-
R065	13 COOMBELL AVENUE COLEBEE	Residential	NCA02	33	36	35	38	-
R066	19 COOMBELL AVENUE COLEBEE	Residential	NCA02	33	36	33	36	-
R067	15 COOMBELL AVENUE COLEBEE	Residential	NCA02	37	40	37	40	-
R068	17 COOMBELL AVENUE COLEBEE	Residential	NCA02	36	39	37	40	-
R069	19 COOMBELL AVENUE COLEBEE	Residential	NCA02	34	37	34	37	-
R070	12 COOMBELL AVENUE COLEBEE	Residential	NCA02	34	37	34	37	-
R071	13 COOMBELL AVENUE COLEBEE	Residential	NCA02	34	37	34	37	-
R072	4 COOMBELL AVENUE COLEBEE	Residential	NCA02	30	33	30	33	-
R073	9 COOMBELL AVENUE COLEBEE	Residential	NCA02	37	40	37	40	-
R074	15 COOMBELL AVENUE COLEBEE	Residential	NCA02	34	37	34	37	-
R075	6 COOMBELL AVENUE COLEBEE	Residential	NCA02	37	40	37	40	-
R076	13 PIMLICO CRESCENT COLEBEE	Residential	NCA02	37	40	38	41	-
R077	17 PIMLICO CRESCENT COLEBEE	Residential	NCA02	38	41	40	43	-
R078	7 PIMLICO CRESCENT COLEBEE	Residential	NCA02	36	39	37	40	-
R079	11 PIMLICO CRESCENT COLEBEE	Residential	NCA02	37	40	38	41	-
R080	1 PIMLICO CRESCENT COLEBEE	Residential	NCA02	36	39	37	40	-
R081	9 PIMLICO CRESCENT COLEBEE	Residential	NCA02	37	40	37	40	-
R082	21 PIMLICO CRESCENT COLEBEE	Residential	NCA02	37	40	38	41	-
R083	19 PIMLICO CRESCENT COLEBEE	Residential	NCA02	37	40	37	40	-
R084	44 PIMLICO CRESCENT COLEBEE	Residential	NCA02	34	37	35	38	-
R085	46 PIMLICO CRESCENT COLEBEE	Residential	NCA02	34	37	35	38	-
R086	42 PIMLICO CRESCENT COLEBEE	Residential	NCA02	34	37	35	38	-
R087	50 PIMLICO CRESCENT COLEBEE	Residential	NCA02	34	37	35	38	-
R088	52 PIMLICO CRESCENT COLEBEE	Residential	NCA02	35	38	36	39	-
R089	38 PIMLICO CRESCENT COLEBEE	Residential	NCA02	34	37	35	38	-
R090	36 PIMLICO CRESCENT COLEBEE	Residential	NCA02	34	37	35	38	-
R091	30 PIMLICO CRESCENT COLEBEE	Residential	NCA02	35	38	36	39	-
R092	34 PIMLICO CRESCENT COLEBEE	Residential	NCA02	35	38	35	38	-
R093	40 PIMLICO CRESCENT COLEBEE	Residential	NCA02	35	38	36	39	-
R094	32 PIMLICO CRESCENT COLEBEE	Residential	NCA02	36	39	36	39	-
R095	48 PIMLICO CRESCENT COLEBEE	Residential	NCA02	34	37	35	38	-
R096	54 PIMLICO CRESCENT COLEBEE	Residential	NCA02	35	38	35	38	-
R097	20 PIMLICO CRESCENT COLEBEE	Residential	NCA02	37	40	39	42	-
R098	15 PIMLICO CRESCENT COLEBEE	Residential	NCA02	37	40	37	40	-
R099	22 PIMLICO CRESCENT COLEBEE	Residential	NCA02	28	31	28	31	-
R100	30 PIMLICO CRESCENT COLEBEE	Residential	NCA02	35	38	36	39	-
R101	24 PIMLICO CRESCENT COLEBEE	Residential	NCA02	36	39	36	39	-
R111	4 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	37	40	38	41	-
R112	7 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	35	38	36	39	-
R113	5 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	35	38	36	39	-
R114	3 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	37	40	38	41	-
R115	6 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	36	39	37	40	-

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R116	11 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	35	38	36	39	-
R117	8 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	30	33	30	33	-
R118	9 STRATHEDEN AVENUE COLEBEE	Residential	NCA02	35	38	36	39	-
R120	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	52	55	V, N, R2, DR
R121	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	30	33	35	38	-
R122	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	56	53	56	V, N, R2, DR
R123	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	30	33	30	33	-
R124	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	30	33	32	35	-
R125	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	29	32	32	35	-
R126	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	29	32	32	35	-
R127	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	53	56	V, N, R2, DR
R128	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	29	32	32	35	-
R129	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	31	34	33	36	-
R130	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	30	33	33	36	-
R131	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	53	56	V, N, R2, DR
R132	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	28	31	32	35	-
R133	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	30	33	31	34	-
R134	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	28	31	31	34	-
R135	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	29	32	30	33	-
R136	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	51	53	56	V, N, R2, DR
R137	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	54	57	V, N, R2, DR
R138	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	43	46	N
R139	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	56	54	57	V, N, R2, DR
R140	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	53	56	V, N, R2, DR
R141	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	46	49	N
R142	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	46	49	N
R143	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	56	55	58	V, N, R2, DR
R144	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	54	57	V, N, R2, DR
R145	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	42	45	-
R146	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	57	55	58	V, N, R2, DR
R147	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	41	44	-
R148	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	46	49	N
R149	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	52	53	56	V, N, R2, DR
R150	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	30	33	30	33	-
R151	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	42	45	-
R152	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	55	58	56	59	V, N, R2, DR
R153	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	47	46	49	N
R154	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	46	49	N
R155	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	27	30	29	32	-
R156	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	53	56	V, N, R2, DR
R157	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	43	46	N
R158	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	47	50	N
R159	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	53	56	V, N, R2, DR
R160	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	59	56	59	V, N, R2, DR
R161	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	40	43	-
R162	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	46	49	N
R163	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	27	30	28	31	-
R164	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	40	43	-
R165	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	27	30	28	31	-
R166	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	43	46	N
R167	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	55	58	57	60	V, N, R2, DR
R168	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	54	57	V, N, R2, DR
R169	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	47	50	N
R170	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	41	44	-
R171	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	43	46	N
R172	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	40	43	-
R173	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	42	45	N
R174	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	59	57	60	V, N, R2, DR
R175	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	46	49	N
R176	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	55	58	V, N, R2, DR
R177	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	37	40	38	41	-
R178	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	46	49	N
R179	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	38	41	-
R180	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	42	45	-
R181	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	41	44	-
R182	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	57	60	58	61	V, IB, N, PC, SN, R2, DR
R183	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	40	43	-
R184	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	38	41	-
R185	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	52	55	58	V, N, R2, DR
R186	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	48	51	V, N, R2, DR
R187	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	51	47	50	V, N, R2, DR
R188	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	41	44	-
R189	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	37	40	-

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R190	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	58	61	59	62	V, IB, N, PC, SN, R2, DR
R191	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	36	39	35	38	-
R192	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	46	49	N
R193	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	56	59	V, N, R2, DR
R194	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	41	44	-
R195	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	48	51	V, N, R2, DR
R196	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	41	44	-
R197	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	38	41	-
R198	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	40	43	-
R199	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	58	61	59	62	V, IB, N, PC, SN, R2, DR
R200	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	57	60	V, N, R2, DR
R201	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	52	47	50	V, N, R2, DR
R202	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	36	39	39	42	-
R203	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	47	50	N
R204	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	40	43	-
R205	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	41	44	-
R206	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	43	46	N
R207	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	43	46	-
R208	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	60	63	60	63	V, IB, N, PC, SN, R2, DR
R209	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	58	61	V, IB, N, PC, SN, R2, DR
R210	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	48	51	V, N, R2, DR
R211	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	37	40	-
R212	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	40	43	-
R213	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	52	47	50	V, N, R2, DR
R214	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	36	39	-
R215	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	59	62	V, IB, N, PC, SN, R2, DR
R216	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	61	64	61	64	V, IB, N, PC, SN, R2, DR
R217	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	43	46	N
R218	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	41	44	-
R219	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	38	41	-
R220	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	52	47	50	V, N, R2, DR
R221	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	49	52	V, N, R2, DR
R222	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	37	40	37	40	-
R223	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	40	43	-
R224	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	62	65	62	65	V, IB, N, PC, SN, R2, DR
R225	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	59	62	V, IB, N, PC, SN, R2, DR
R226	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	51	49	52	V, N, R2, DR
R227	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	36	39	37	40	-
R228	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	56	54	57	V, N, R2, DR
R229	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	43	46	N
R230	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	39	42	-
R231	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	40	43	-
R232	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	43	46	N
R233	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	66	63	66	V, IB, N, PC, SN, R2, DR
R234	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	56	60	63	V, IB, N, PC, SN, R2, DR
R235	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	38	41	-
R236	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	52	50	53	V, N, R2, DR
R237	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	52	55	V, N, R2, DR
R238	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	39	42	-
R239	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	38	41	-
R240	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	66	69	65	68	V, IB, N, PC, SN, R2, DR
R241	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	43	46	N
R242	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	45	48	N
R243	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	35	38	34	37	-
R244	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	51	49	52	V, N, R2, DR
R245	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	51	48	51	V, N, R2, DR
R246	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	37	40	37	40	-
R247	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	39	42	-
R248	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	66	69	65	68	V, IB, N, PC, SN, R2, DR
R249	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	44	47	N
R250	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	43	46	N
R251	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	58	61	V, IB, N, PC, SN, R2, DR
R252	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	51	49	52	V, N, R2, DR
R253	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	49	52	48	51	V, N, R2, DR
R254	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	37	40	-
R255	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	35	38	35	38	-
R256	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	54	57	58	61	V, IB, N, PC, SN, R2, DR
R257	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	39	42	-
R258	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	45	48	N
R259	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	57	60	V, N, R2, DR
R260	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	46	49	N
R261	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	35	38	37	40	-
R262	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	53	56	V, N, R2, DR

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R263	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	67	70	67	70	V, IB, N, PC, SN, R2, DR
R264	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	38	41	-
R265	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	39	42	-
R266	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	49	52	V, N, R2, DR
R267	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	43	46	N
R268	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	51	54	V, N, R2, DR
R269	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	69	72	68	71	AA, V, IB, N, PC, SN, R2, DR
R270	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	36	39	-
R271	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	36	39	45	48	N
R272	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	50	53	V, N, R2, DR
R273	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	39	42	-
R274	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	39	42	-
R275	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	71	74	70	73	AA, V, IB, N, PC, SN, R2, DR
R276	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	36	39	37	40	-
R277	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	48	51	V, N, R2, DR
R278	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	39	42	-
R279	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	45	48	N
R280	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	31	34	37	40	-
R281	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	45	48	N
R282	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	73	76	71	74	AA, V, IB, N, PC, SN, R2, DR
R283	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	36	39	38	41	-
R284	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	45	48	N
R285	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	44	47	47	50	N
R286	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	55	58	73	76	AA, V, IB, N, PC, SN, R2, DR
R287	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	57	60	V, N, R2, DR
R288	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	40	43	-
R289	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	57	60	V, N, R2, DR
R290	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	42	45	-
R291	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	47	50	N
R292	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	50	53	56	59	V, N, R2, DR
R293	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	35	38	38	41	-
R294	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	56	59	V, N, R2, DR
R295	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	32	35	35	38	-
R296	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	83	86	90	93	AA, V, IB, N, PC, SN, R2, DR
R297	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	53	56	V, N, R2, DR
R298	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	43	46	42	45	N
R299	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	56	59	V, N, R2, DR
R300	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	45	48	47	50	N
R301	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	83	86	91	94	AA, V, IB, N, PC, SN, R2, DR
R302	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	79	82	91	94	AA, V, IB, N, PC, SN, R2, DR
R303	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	72	75	87	90	AA, V, IB, N, PC, SN, R2, DR
R304	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	58	61	V, IB, N, PC, SN, R2, DR
R305	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	70	73	90	93	AA, V, IB, N, PC, SN, R2, DR
R306	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	51	54	V, N, R2, DR
R307	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	41	44	-
R308	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	68	71	92	95	AA, V, IB, N, PC, SN, R2, DR
R309	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	41	44	-
R310	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	64	67	91	94	AA, V, IB, N, PC, SN, R2, DR
R311	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	39	42	-
R312	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	33	36	38	41	-
R313	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	63	66	92	95	AA, V, IB, N, PC, SN, R2, DR
R314	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	59	62	V, IB, N, PC, SN, R2, DR
R315	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	35	38	40	43	-
R316	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	35	38	36	39	-
R317	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	61	64	85	88	AA, V, IB, N, PC, SN, R2, DR
R318	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	46	49	61	64	V, IB, N, PC, SN, R2, DR
R319	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	39	42	-
R320	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	36	39	39	42	-
R321	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	48	51	65	68	V, IB, N, PC, SN, R2, DR
R322	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	60	63	78	81	AA, V, IB, N, PC, SN, R2, DR
R323	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	37	40	38	41	-
R324	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	39	42	42	45	-
R325	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	53	56	60	63	V, IB, N, PC, SN, R2, DR
R326	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	59	62	V, IB, N, PC, SN, R2, DR
R327	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	56	59	65	68	V, IB, N, PC, SN, R2, DR
R328	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	59	62	V, IB, N, PC, SN, R2, DR
R329	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	52	55	58	61	V, IB, N, PC, SN, R2, DR
R330	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	38	41	39	42	-
R331	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	41	44	44	47	N
R332	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	51	54	57	60	V, N, R2, DR
R333	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	40	43	42	45	-
R334	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	47	50	55	58	V, N, R2, DR
R335	LUXELAND DEVELOPMENT STAGE 2	Residential	NCA02	42	45	44	47	N



Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R336	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R337	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	38	41	-
R338	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R339	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R340	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R341	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R342	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R343	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R344	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R345	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R346	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R347	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	40	43	-
R348	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	40	43	-
R349	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	40	43	-
R350	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	37	40	-
R351	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R352	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	40	43	-
R353	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	40	43	-
R354	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	40	43	-
R355	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	40	43	-
R356	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	40	43	-
R357	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	40	43	-
R358	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R359	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R360	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	41	44	-
R361	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	41	44	-
R362	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	41	44	-
R363	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	41	44	-
R364	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	41	44	-
R365	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	41	44	-
R366	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	41	44	-
R367	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R368	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R369	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R370	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	<b>43</b>	46	N
R371	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	<b>43</b>	46	N
R372	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	<b>43</b>	46	N
R373	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R374	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R375	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	40	43	-
R376	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	40	43	-
R377	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	40	43	-
R378	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R379	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R380	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R381	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R382	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R383	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R384	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	42	45	-
R385	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	42	45	-
R386	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	42	45	-
R387	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	39	42	-
R388	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	42	45	-
R389	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	39	42	-
R390	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	39	42	-
R391	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	39	42	-
R392	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	36	39	-
R393	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	36	39	-
R394	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	36	39	-
R395	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R396	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R397	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R398	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R399	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R400	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R401	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R402	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R403	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R404	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R405	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R406	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R407	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R408	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R409	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R410	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R411	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	27	30	34	37	-
R412	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	32	35	-
R413	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	23	26	27	30	-
R414	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	41	44	-
R415	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R416	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	35	38	-
R417	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	35	38	-
R418	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R419	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	40	43	-
R420	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	27	30	37	40	-
R421	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	35	38	-
R422	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R423	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R424	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	33	36	-
R425	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	34	37	-
R426	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R427	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R428	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	32	35	-
R429	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	32	35	-
R430	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	36	39	-
R431	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R432	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R433	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	33	36	-
R434	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R435	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R436	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	34	37	-
R437	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R438	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	40	43	-
R439	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R440	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	34	37	-
R441	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R442	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R443	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R444	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R445	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R446	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R447	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R448	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R449	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	35	38	-
R450	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	39	42	-
R451	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	39	42	-
R452	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R453	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R454	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	40	43	-
R455	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R456	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R457	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	36	39	-
R458	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R459	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	36	39	-
R460	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R461	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R462	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	35	38	-
R463	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	36	39	-
R464	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	36	39	-
R465	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R466	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	23	26	29	32	-
R467	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	33	36	-
R468	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R469	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R470	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R471	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R472	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R473	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R474	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	36	39	-
R475	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	36	39	-
R476	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R477	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	39	42	-
R478	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	33	36	-
R479	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	34	37	-
R480	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R481	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	39	42	-

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R482	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	35	38	-
R483	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	35	38	-
R484	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	39	42	-
R485	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R486	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	35	38	-
R487	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	36	39	-
R488	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R489	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	36	39	-
R490	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R491	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R492	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	37	40	-
R493	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	39	42	-
R494	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R495	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R496	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	28	31	31	34	-
R497	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	34	37	-
R498	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R499	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R500	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	34	37	-
R501	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	35	38	-
R502	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R503	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R504	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	33	36	-
R505	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R506	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R507	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R508	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R509	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	31	34	-
R510	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R511	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	37	40	-
R512	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	35	38	-
R513	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R514	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	23	26	33	36	-
R515	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R516	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	23	26	31	34	-
R517	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	37	40	-
R518	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	24	27	33	36	-
R519	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	36	39	-
R520	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	23	26	30	33	-
R521	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	35	38	-
R522	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	37	40	-
R523	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	37	40	-
R524	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	31	34	-
R525	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	35	38	-
R526	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R527	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	38	41	-
R528	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	34	37	-
R529	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	34	37	-
R530	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	40	43	-
R531	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	39	42	-
R532	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	34	37	-
R533	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	40	43	-
R534	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R535	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	46	42	45	N
R536	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	34	37	-
R537	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	47	48	51	V, N, R2, DR
R538	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	37	40	-
R539	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	43	46	N
R540	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	39	42	-
R541	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	48	50	53	V, N, R2, DR
R542	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R543	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R544	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R545	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R546	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R547	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	39	42	-
R548	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	48	45	48	N
R549	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	48	45	48	N
R550	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	45	48	45	48	N
R551	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R552	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R553	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	42	45	-
R554	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	44	47	46	49	N

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R555	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	40	43	-
R556	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	40	43	-
R557	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	40	43	-
R558	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	42	45	-
R559	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	42	45	-
R560	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	42	45	42	45	-
R561	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	46	45	48	N
R562	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	46	45	48	N
R563	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	43	46	45	48	N
R564	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	49	47	50	N
R565	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	49	47	50	N
R566	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	46	49	47	50	N
R567	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R568	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R569	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R570	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R571	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	41	44	-
R572	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R573	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	39	42	-
R574	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	35	38	-
R575	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R576	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	34	37	-
R577	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R578	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	34	37	-
R579	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	38	41	-
R580	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	34	37	-
R581	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	37	40	-
R582	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	34	37	-
R583	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	43	46	N
R584	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	34	37	-
R585	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	39	42	-
R586	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	34	37	-
R587	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	36	39	-
R588	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	31	34	-
R589	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R590	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	38	41	-
R591	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	37	40	-
R592	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	41	44	43	46	N
R593	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	32	35	-
R594	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	40	43	-
R595	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	40	43	-
R596	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	37	40	-
R597	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	37	40	-
R598	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	28	31	27	30	-
R599	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R600	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	37	40	-
R601	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	35	38	-
R602	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	32	35	-
R603	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	36	39	-
R604	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	39	42	-
R605	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	33	36	-
R606	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	36	39	38	41	-
R607	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	32	35	-
R608	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	32	35	34	37	-
R609	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	30	33	-
R610	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	37	40	-
R611	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	32	35	-
R612	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	32	35	-
R613	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	26	29	27	30	-
R614	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	38	41	-
R615	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R616	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	35	38	-
R617	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	37	40	-
R618	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	35	38	39	42	-
R619	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	41	44	-
R620	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	37	40	-
R621	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	32	35	-
R622	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	39	42	-
R623	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R624	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	36	39	-
R625	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	35	38	-
R626	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R627	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	39	42	-

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential:		Noticeable	Clearly audible	Moderately intrusive	Highly intrusive	Bold Highly noise affected		
Non-residential:		Exceeds noise management level		Exceeds sleep disturbance criteria (65 dBA at residences)				
R628	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	34	37	-
R629	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	35	38	-
R630	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	42	45	-
R631	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	31	34	35	38	-
R632	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	41	44	-
R633	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	39	42	41	44	-
R634	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	38	41	40	43	-
R635	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	33	36	-
R636	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	38	41	-
R637	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	22	25	29	32	-
R638	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	24	27	29	32	-
R639	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	22	25	26	29	-
R640	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	27	30	-
R641	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	27	30	28	31	-
R642	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	26	29	-
R643	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	23	26	33	36	-
R644	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	26	29	27	30	-
R645	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	26	29	-
R646	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	23	26	25	28	-
R647	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	24	27	-
R648	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	20	23	20	23	-
R649	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	19	22	20	23	-
R650	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	19	22	20	23	-
R651	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	37	40	37	40	-
R652	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	28	31	32	35	-
R653	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	21	24	28	31	-
R654	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	28	31	29	32	-
R655	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	28	31	29	32	-
R656	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	24	27	22	25	-
R657	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	21	24	23	26	-
R658	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	21	24	22	25	-
R659	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	22	25	22	25	-
R660	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	28	31	-
R661	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	31	34	-
R662	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	30	33	31	34	-
R663	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	29	32	29	32	-
R664	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	24	27	24	27	-
R665	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	21	24	22	25	-
R666	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	22	25	23	26	-
R667	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	24	27	24	27	-
R668	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	33	36	34	37	-
R669	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	25	28	-
R670	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	34	37	35	38	-
R671	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	26	29	27	30	-
R672	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	40	43	40	43	-
R673	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	24	27	25	28	-
R674	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	25	28	-
R675	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	26	29	-
R676	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	26	29	-
R677	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	25	28	26	29	-
R678	LUXELAND DEVELOPMENT STAGE 1	Residential	NCA02	26	29	27	30	-
R679	19 BIRKDALE STREET COLEBEE	Residential	NCA03	36	39	45	48	N
R680	10 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	43	46	N
R681	14 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	44	47	N
R682	5 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	44	47	N
R683	16 BIRKDALE STREET COLEBEE	Residential	NCA03	35	38	43	46	-
R684	8 BIRKDALE STREET COLEBEE	Residential	NCA03	35	38	40	43	-
R685	9 BIRKDALE STREET COLEBEE	Residential	NCA03	36	39	43	46	N
R686	15 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	43	46	N
R687	18 BIRKDALE STREET COLEBEE	Residential	NCA03	35	38	42	45	-
R688	20 BIRKDALE STREET COLEBEE	Residential	NCA03	39	42	45	48	N
R689	4 BIRKDALE STREET COLEBEE	Residential	NCA03	38	41	44	47	N
R690	17 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	44	47	N
R691	11 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	43	46	N
R692	21 BIRKDALE STREET COLEBEE	Residential	NCA03	40	43	45	48	N
R693	7 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	43	46	N
R694	3 BIRKDALE STREET COLEBEE	Residential	NCA03	36	39	43	46	N
R695	6 BIRKDALE STREET COLEBEE	Residential	NCA03	36	39	41	44	-
R696	13 BIRKDALE STREET COLEBEE	Residential	NCA03	37	40	44	47	N
R697	2 BIRKDALE STREET COLEBEE	Residential	NCA03	35	38	41	44	-
R698	13 DIAMANTE COURT COLEBEE	Residential	NCA03	43	46	48	51	V, N, R2, DR
R699	5 DIAMANTE COURT COLEBEE	Residential	NCA03	43	46	49	52	V, N, R2, DR
R700	3 DIAMANTE COURT COLEBEE	Residential	NCA03	42	45	49	52	V, N, R2, DR

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R701	4 DIAMANTE COURT COLEBEE	Residential	NCA03	39	42	44	47	N
R702	4 DIAMANTE COURT COLEBEE	Residential	NCA03	40	43	46	49	N
R703	11 DIAMANTE COURT COLEBEE	Residential	NCA03	40	43	48	51	V, N, R2, DR
R704	9 DIAMANTE COURT COLEBEE	Residential	NCA03	45	48	49	52	V, N, R2, DR
R705	9 DIAMANTE COURT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R706	15 DIAMANTE COURT COLEBEE	Residential	NCA03	42	45	48	51	V, N, R2, DR
R707	6 KINGSBARN STREET COLEBEE	Residential	NCA03	40	43	47	50	N
R708	4 KINGSBARN STREET COLEBEE	Residential	NCA03	38	41	42	45	-
R709	5 KINGSBARN STREET COLEBEE	Residential	NCA03	34	37	43	46	N
R710	8 KINGSBARN STREET COLEBEE	Residential	NCA03	41	44	44	47	N
R711	10 KINGSBARN STREET COLEBEE	Residential	NCA03	41	44	44	47	N
R712	7 KINGSBARN STREET COLEBEE	Residential	NCA03	33	36	39	42	-
R713	9 KINGSBARN STREET COLEBEE	Residential	NCA03	36	39	44	47	N
R714	3 KINGSBARN STREET COLEBEE	Residential	NCA03	39	42	46	49	N
R715	6 MAJORS AVENUE COLEBEE	Residential	NCA03	32	35	42	45	-
R716	8 MAJORS AVENUE COLEBEE	Residential	NCA03	32	35	41	44	-
R717	5 MAJORS AVENUE COLEBEE	Residential	NCA03	33	36	40	43	-
R718	3 MAJORS AVENUE COLEBEE	Residential	NCA03	41	44	43	46	N
R719	1 MAJORS AVENUE COLEBEE	Residential	NCA03	32	35	41	44	-
R720	5 MAJORS AVENUE COLEBEE	Residential	NCA03	37	40	41	44	-
R721	15 MASTERS CIRCUIT COLEBEE	Residential	NCA03	42	45	43	46	N
R722	22 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	44	43	46	N
R723	11 MASTERS CIRCUIT COLEBEE	Residential	NCA03	38	41	44	47	N
R724	8 MASTERS CIRCUIT COLEBEE	Residential	NCA03	37	40	44	47	N
R725	14 MASTERS CIRCUIT COLEBEE	Residential	NCA03	38	41	43	46	N
R726	10 MASTERS CIRCUIT COLEBEE	Residential	NCA03	42	45	43	46	N
R727	18 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	44	43	46	N
R728	12 MASTERS CIRCUIT COLEBEE	Residential	NCA03	36	39	42	45	-
R729	6 MASTERS CIRCUIT COLEBEE	Residential	NCA03	37	40	45	48	N
R730	20 MASTERS CIRCUIT COLEBEE	Residential	NCA03	40	43	43	46	N
R731	17 MASTERS CIRCUIT COLEBEE	Residential	NCA03	41	44	44	47	N
R732	4 MASTERS CIRCUIT COLEBEE	Residential	NCA03	38	41	45	48	N
R733	11 MASTERS CIRCUIT COLEBEE	Residential	NCA03	37	40	43	46	N
R734	2 MASTERS CIRCUIT COLEBEE	Residential	NCA03	40	43	44	47	N
R735	11 MASTERS CIRCUIT COLEBEE	Residential	NCA03	38	41	42	45	-
R736	67 MEDALLIST PARADE COLEBEE	Residential	NCA03	41	44	46	49	N
R737	76 MEDALLIST PARADE COLEBEE	Residential	NCA03	39	42	46	49	N
R738	29 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	46	49	N
R739	37 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	44	47	N
R740	66 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	47	49	52	V, N, R2, DR
R741	9 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	39	42	-
R742	43 OAKHILL CRESCENT COLEBEE	Residential	NCA03	33	36	38	41	-
R743	21 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	48	51	V, N, R2, DR
R744	25 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	47	50	N
R745	39 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	47	50	N
R746	46 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R747	48 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	48	51	V, N, R2, DR
R748	28 OAKHILL CRESCENT COLEBEE	Residential	NCA03	36	39	44	47	N
R749	1 OAKHILL CRESCENT COLEBEE	Residential	NCA03	31	34	38	41	-
R750	12 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	46	49	N
R751	17 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	47	50	N
R752	13 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	47	50	N
R753	49 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	47	50	N
R754	23 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	48	51	V, N, R2, DR
R755	8 OAKHILL CRESCENT COLEBEE	Residential	NCA03	38	41	45	48	N
R756	10 OAKHILL CRESCENT COLEBEE	Residential	NCA03	38	41	45	48	N
R757	52 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	47	50	N
R758	18 OAKHILL CRESCENT COLEBEE	Residential	NCA03	39	42	46	49	N
R759	26 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R760	50 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R761	11 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	48	51	V, N, R2, DR
R762	31 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	47	50	N
R763	40 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	49	52	V, N, R2, DR
R764	54 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	48	51	V, N, R2, DR
R765	38 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	49	52	V, N, R2, DR
R766	22 OAKHILL CRESCENT COLEBEE	Residential	NCA03	39	42	46	49	N
R767	4 OAKHILL CRESCENT COLEBEE	Residential	NCA03	39	42	46	49	N
R768	28 OAKHILL CRESCENT COLEBEE	Residential	NCA03	36	39	43	46	-
R769	47 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	47	50	N
R770	32 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R771	36 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R772	14 OAKHILL CRESCENT COLEBEE	Residential	NCA03	38	41	43	46	N
R773	68 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	49	52	V, N, R2, DR

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R774	44 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	49	52	V, N, R2, DR
R775	24 OAKHILL CRESCENT COLEBEE	Residential	NCA03	39	42	39	42	-
R776	42 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R777	20 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	46	49	N
R778	58 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	48	51	V, N, R2, DR
R779	56 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	48	51	V, N, R2, DR
R780	60 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	49	52	V, N, R2, DR
R781	62 OAKHILL CRESCENT COLEBEE	Residential	NCA03	44	47	49	52	V, N, R2, DR
R782	62 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	49	52	V, N, R2, DR
R783	45 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	44	47	N
R784	51 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	44	47	N
R785	34 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	48	51	V, N, R2, DR
R786	35 OAKHILL CRESCENT COLEBEE	Residential	NCA03	42	45	46	49	N
R787	19 OAKHILL CRESCENT COLEBEE	Residential	NCA03	45	48	48	51	V, N, R2, DR
R788	27 OAKHILL CRESCENT COLEBEE	Residential	NCA03	41	44	47	50	N
R789	4 OAKHILL CRESCENT COLEBEE	Residential	NCA03	37	40	44	47	N
R790	2 OAKHILL CRESCENT COLEBEE	Residential	NCA03	36	39	43	46	N
R791	5 OAKHILL CRESCENT COLEBEE	Residential	NCA03	36	39	40	43	-
R792	16 OAKHILL CRESCENT COLEBEE	Residential	NCA03	38	41	43	46	N
R793	7 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	47	50	N
R794	33 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	47	50	N
R795	41 OAKHILL CRESCENT COLEBEE	Residential	NCA03	40	43	45	48	N
R796	3 OAKHILL CRESCENT COLEBEE	Residential	NCA03	39	42	45	48	N
R797	15 OAKHILL CRESCENT COLEBEE	Residential	NCA03	43	46	47	50	N
R798	16 PINEHURST STREET COLEBEE	Residential	NCA03	34	37	42	45	-
R799	5 PINEHURST STREET COLEBEE	Residential	NCA03	37	40	40	43	-
R800	12 PINEHURST STREET COLEBEE	Residential	NCA03	38	41	42	45	-
R801	14 PINEHURST STREET COLEBEE	Residential	NCA03	39	42	43	46	N
R802	11 PINEHURST STREET COLEBEE	Residential	NCA03	40	43	43	46	N
R803	6 PINEHURST STREET COLEBEE	Residential	NCA03	41	44	39	42	-
R804	11 PINEHURST STREET COLEBEE	Residential	NCA03	39	42	42	45	-
R805	11 PINEHURST STREET COLEBEE	Residential	NCA03	36	39	43	46	N
R806	3 PINEHURST STREET COLEBEE	Residential	NCA03	38	41	46	49	N
R807	5 PINEHURST STREET COLEBEE	Residential	NCA03	38	41	46	49	N
R808	8 PINEHURST STREET COLEBEE	Residential	NCA03	38	41	42	45	-
R809	10 PINEHURST STREET COLEBEE	Residential	NCA03	38	41	43	46	N
R810	7 PINEHURST STREET COLEBEE	Residential	NCA03	35	38	42	45	-
R811	34 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	47	50	49	52	V, N, R2, DR
R812	41 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	58	61	67	70	V, IB, N, PC, SN, R2, DR
R813	20 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	42	45	49	52	V, N, R2, DR
R814	21 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	53	49	52	V, N, R2, DR
R815	42 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	53	51	54	V, N, R2, DR
R816	41 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	55	58	66	69	V, IB, N, PC, SN, R2, DR
R817	28 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	46	49	50	53	V, N, R2, DR
R818	68 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	63	66	75	78	AA, V, IB, N, PC, SN, R2, DR
R819	7 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	35	38	46	49	N
R820	17 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	46	49	49	52	V, N, R2, DR
R821	23 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	53	49	52	V, N, R2, DR
R822	25 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	49	52	50	53	V, N, R2, DR
R823	37 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	52	55	62	65	V, IB, N, PC, SN, R2, DR
R824	13 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	34	37	36	39	-
R825	32 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	53	50	53	V, N, R2, DR
R826	54 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	56	59	56	59	V, N, R2, DR
R827	17 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	47	50	49	52	V, N, R2, DR
R828	60 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	60	63	60	63	V, IB, N, PC, SN, R2, DR
R829	62 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	58	61	59	62	V, IB, N, PC, SN, R2, DR
R830	56 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	54	57	54	57	V, N, R2, DR
R831	58 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	58	61	59	62	V, IB, N, PC, SN, R2, DR
R832	30 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	53	50	53	V, N, R2, DR
R833	19 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	48	51	49	52	V, N, R2, DR
R834	64 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	56	59	59	62	V, IB, N, PC, SN, R2, DR
R835	52 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	54	57	54	57	V, N, R2, DR
R836	35 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	40	43	47	50	N
R837	68 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	45	48	62	65	V, IB, N, PC, SN, R2, DR
R838	26 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	44	47	49	52	V, N, R2, DR
R839	13 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	28	31	31	34	-
R840	38 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	53	51	54	V, N, R2, DR
R841	3 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	40	43	46	49	N
R842	39 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	46	49	60	63	V, IB, N, PC, SN, R2, DR
R843	46 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	51	54	52	55	V, N, R2, DR
R844	48 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	52	55	52	55	V, N, R2, DR
R845	50 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	51	54	52	55	V, N, R2, DR
R846	27 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	43	46	46	49	N

Predicted construction noise levels: OOHW Period 2 (Night)

Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: <span style="color: #FF69B4;">Noticeable</span> <span style="color: #90EE90;">Clearly audible</span> <span style="color: #90EE90;">Moderately intrusive</span> <span style="color: #FFD700;">Highly intrusive</span> <span style="color: #FF69B4;">Bold</span> Highly noise affected Non-residential: <span style="color: #FF69B4;">Exceeds noise management level</span> <span style="color: #FFD700;">Exceeds sleep disturbance criteria (65 dBA at residences)</span>								
R847	22 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	43	46	49	52	V, N, R2, DR
R848	44 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	50	53	51	54	V, N, R2, DR
R849	33 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	38	41	48	51	V, N, R2, DR
R850	24 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	43	46	49	52	V, N, R2, DR
R851	29 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	41	44	46	49	N
R852	31 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	42	45	47	50	N
R853	5 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	40	43	46	49	N
R854	25 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	44	47	45	48	N
R855	15 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	26	29	31	34	-
R856	9 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	36	39	37	40	-
R857	66 SUNNINGDALE DRIVE COLEBEE	Residential	NCA03	62	65	68	71	AA, V, IB, N, PC, SN, R2, DR
R858	18 VALDERRAMA STREET COLEBEE	Residential	NCA03	44	47	44	47	N
R859	20 VALDERRAMA STREET COLEBEE	Residential	NCA03	41	44	44	47	N
R860	19 VALDERRAMA STREET COLEBEE	Residential	NCA03	37	40	43	46	N
R861	21 VALDERRAMA STREET COLEBEE	Residential	NCA03	37	40	44	47	N
R862	14 VALDERRAMA STREET COLEBEE	Residential	NCA03	42	45	44	47	N
R863	22 VALDERRAMA STREET COLEBEE	Residential	NCA03	35	38	40	43	-
R864	8 VALDERRAMA STREET COLEBEE	Residential	NCA03	40	43	45	48	N
R865	4 VALDERRAMA STREET COLEBEE	Residential	NCA03	43	46	44	47	N
R866	17 VALDERRAMA STREET COLEBEE	Residential	NCA03	42	45	43	46	N
R867	6 VALDERRAMA STREET COLEBEE	Residential	NCA03	39	42	45	48	N
R868	12 VALDERRAMA STREET COLEBEE	Residential	NCA03	41	44	43	46	N
R869	10 VALDERRAMA STREET COLEBEE	Residential	NCA03	41	44	45	48	N
R870	20 VICTORY ROAD COLEBEE	Residential	NCA03	32	35	38	41	-
R871	14 VICTORY ROAD COLEBEE	Residential	NCA03	36	39	40	43	-
R872	40 VICTORY ROAD COLEBEE	Residential	NCA03	47	50	55	58	V, N, R2, DR
R873	44 VICTORY ROAD COLEBEE	Residential	NCA03	51	54	59	62	V, IB, N, PC, SN, R2, DR
R874	42 VICTORY ROAD COLEBEE	Residential	NCA03	50	53	58	61	V, IB, N, PC, SN, R2, DR
R875	38 VICTORY ROAD COLEBEE	Residential	NCA03	48	51	54	57	V, N, R2, DR
R876	36 VICTORY ROAD COLEBEE	Residential	NCA03	39	42	45	48	N
R877	24 VICTORY ROAD COLEBEE	Residential	NCA03	27	30	29	32	-
R878	34 VICTORY ROAD COLEBEE	Residential	NCA03	34	37	43	46	N
R879	12 VICTORY ROAD COLEBEE	Residential	NCA03	33	36	35	38	-
R880	32 VICTORY ROAD COLEBEE	Residential	NCA03	31	34	41	44	-
R881	48 VICTORY ROAD COLEBEE	Residential	NCA03	38	41	40	43	-
R882	46 VICTORY ROAD COLEBEE	Residential	NCA03	34	37	41	44	-
R883	50 VICTORY ROAD COLEBEE	Residential	NCA03	37	40	40	43	-
R884	16 VICTORY ROAD COLEBEE	Residential	NCA03	35	38	39	42	-
R885	26 VICTORY ROAD COLEBEE	Residential	NCA03	41	44	47	50	N
R886	22 VICTORY ROAD COLEBEE	Residential	NCA03	30	33	31	34	-
R887	30 VICTORY ROAD COLEBEE	Residential	NCA03	35	38	42	45	-
R888	18 VICTORY ROAD COLEBEE	Residential	NCA03	38	41	41	44	-
R889	3 WOODHALL CLOSE COLEBEE	Residential	NCA03	35	38	42	45	-
R890	4 WOODHALL CLOSE COLEBEE	Residential	NCA03	39	42	45	48	N
R891	9 WOODHALL CLOSE COLEBEE	Residential	NCA03	37	40	38	41	-
R892	5 WOODHALL CLOSE COLEBEE	Residential	NCA03	40	43	44	47	N
R893	6 WOODHALL CLOSE COLEBEE	Residential	NCA03	36	39	40	43	-
R894	9 WOODHALL CLOSE COLEBEE	Residential	NCA03	34	37	34	37	-
R900	58B ANGUS ROAD SCHOFIELDS	Residential	NCA04	37	40	44	47	V, N, R2, DR
R901	46 ANGUS ROAD SCHOFIELDS	Residential	NCA04	36	39	43	46	V, N, R2, DR
R902	27 ANGUS ROAD SCHOFIELDS	Residential	NCA04	35	38	42	45	V, N, R2, DR
R903	45 ANGUS ROAD SCHOFIELDS	Residential	NCA04	37	40	44	47	V, N, R2, DR
R904	35 ANGUS ROAD SCHOFIELDS	Residential	NCA04	36	39	43	46	V, N, R2, DR
R905	24 ANGUS ROAD SCHOFIELDS	Residential	NCA04	33	36	40	43	N
R906	26 ANGUS ROAD SCHOFIELDS	Residential	NCA04	34	37	42	45	V, N, R2, DR
R907	21 ANGUS ROAD SCHOFIELDS	Residential	NCA04	35	38	42	45	V, N, R2, DR
R908	30 ANGUS ROAD SCHOFIELDS	Residential	NCA04	35	38	42	45	V, N, R2, DR
R909	1 DURHAM ROAD SCHOFIELDS	Residential	NCA04	39	42	46	49	V, N, R2, DR
R910	22 DURHAM ROAD SCHOFIELDS	Residential	NCA04	43	46	50	53	V, N, R2, DR
R911	61 DURHAM ROAD SCHOFIELDS	Residential	NCA04	47	50	51	54	V, N, R2, DR
R912	43 DURHAM ROAD SCHOFIELDS	Residential	NCA04	45	48	51	54	V, N, R2, DR
R913	14 DURHAM ROAD SCHOFIELDS	Residential	NCA04	41	44	48	51	V, N, R2, DR
R914	55 DURHAM ROAD SCHOFIELDS	Residential	NCA04	48	51	52	55	V, IB, N, PC, SN, R2, DR
R915	43 DURHAM ROAD SCHOFIELDS	Residential	NCA04	45	48	51	54	V, N, R2, DR
R916	34 DURHAM ROAD SCHOFIELDS	Residential	NCA04	44	47	51	54	V, N, R2, DR
R917	14 DURHAM ROAD SCHOFIELDS	Residential	NCA04	37	40	44	47	V, N, R2, DR
R919	26 DURHAM ROAD SCHOFIELDS	Residential	NCA04	42	45	50	53	V, N, R2, DR
R920	19 DURHAM ROAD SCHOFIELDS	Residential	NCA04	41	44	48	51	V, N, R2, DR
R921	27 DURHAM ROAD SCHOFIELDS	Residential	NCA04	42	45	49	52	V, N, R2, DR
R922	39 DURHAM ROAD SCHOFIELDS	Residential	NCA04	45	48	51	54	V, N, R2, DR
R923	61 DURHAM ROAD SCHOFIELDS	Residential	NCA04	47	50	52	55	V, IB, N, PC, SN, R2, DR
R924	4 DURHAM ROAD SCHOFIELDS	Residential	NCA04	37	40	44	47	V, N, R2, DR
R925	8 DURHAM ROAD SCHOFIELDS	Residential	NCA04	39	42	46	49	V, N, R2, DR



Predicted construction noise levels: OOHW Period 2 (Night)

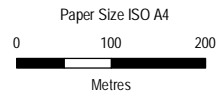
Receiver ID	Address	Receiver Type	NCA	CS07	CS07 Sleep	CS12	CS12 Sleep	Additional management measures
Residential: Noticeable Clearly audible Moderately intrusive Highly intrusive <b>Bold</b> Highly noise affected Non-residential: Exceeds noise management level Exceeds sleep disturbance criteria (65 dBA at residences)								
R926	46 DURHAM ROAD SCHOFIELDS	Residential	NCA04	52	55	51	54	V, IB, N, PC, SN, R2, DR
R927	25 JERSEY ROAD SCHOFIELDS	Residential	NCA04	41	44	45	48	V, N, R2, DR
R928	12 JERSEY ROAD SCHOFIELDS	Residential	NCA04	44	47	45	48	V, N, R2, DR
R929	42 JERSEY ROAD SCHOFIELDS	Residential	NCA04	48	51	50	53	V, N, R2, DR
R930	32 JERSEY ROAD SCHOFIELDS	Residential	NCA04	34	37	45	48	V, N, R2, DR
R931	15 JERSEY ROAD SCHOFIELDS	Residential	NCA04	38	41	43	46	V, N, R2, DR
R932	9 JERSEY ROAD SCHOFIELDS	Residential	NCA04	40	43	45	48	V, N, R2, DR
R933	7 JERSEY ROAD SCHOFIELDS	Residential	NCA04	34	37	41	44	N
R934	83 KERRY ROAD SCHOFIELDS	Residential	NCA04	35	38	40	43	N
R935	17 KERRY ROAD SCHOFIELDS	Residential	NCA04	35	38	41	44	N
R936	3 KERRY ROAD SCHOFIELDS	Residential	NCA04	33	36	40	43	N
R937	23 KERRY ROAD SCHOFIELDS	Residential	NCA04	35	38	41	44	N
R938	87 KERRY ROAD SCHOFIELDS	Residential	NCA04	37	40	43	46	V, N, R2, DR
R939	55 KERRY ROAD SCHOFIELDS	Residential	NCA04	36	39	42	45	V, N, R2, DR
R940	77 KERRY ROAD SCHOFIELDS	Residential	NCA04	36	39	42	45	V, N, R2, DR
R941	44 KERRY ROAD SCHOFIELDS	Residential	NCA04	39	42	45	48	V, N, R2, DR
R942	73-73 KERRY ROAD SCHOFIELDS	Residential	NCA04	36	39	42	45	V, N, R2, DR
R943	28 KERRY ROAD SCHOFIELDS	Residential	NCA04	38	41	44	47	V, N, R2, DR
R944	73 KERRY ROAD SCHOFIELDS	Residential	NCA04	36	39	42	45	V, N, R2, DR
R945	61 KERRY ROAD SCHOFIELDS	Residential	NCA04	34	37	41	44	N
R946	29 KERRY ROAD SCHOFIELDS	Residential	NCA04	35	38	42	45	V, N, R2, DR
R947	77 KERRY ROAD SCHOFIELDS	Residential	NCA04	37	40	42	45	V, N, R2, DR
R948	45 KERRY ROAD SCHOFIELDS	Residential	NCA04	36	39	42	45	V, N, R2, DR
R949	65 KERRY ROAD SCHOFIELDS	Residential	NCA04	34	37	40	43	N
R950	60 KERRY ROAD SCHOFIELDS	Residential	NCA04	38	41	43	46	V, N, R2, DR
R951	101 KERRY ROAD SCHOFIELDS	Residential	NCA04	42	45	43	46	V, N, R2, DR
R952	97 KERRY ROAD SCHOFIELDS	Residential	NCA04	42	45	43	46	V, N, R2, DR
R953	52 KERRY ROAD SCHOFIELDS	Residential	NCA04	36	39	42	45	V, N, R2, DR
R954	5 MEADOW ROAD SCHOFIELDS	Residential	NCA04	54	57	53	56	V, IB, N, PC, SN, R2, DR
R955	10 MEADOW ROAD SCHOFIELDS	Residential	NCA04	50	53	57	60	V, IB, N, PC, SN, R2, DR

# **Appendix F** – Construction noise maps

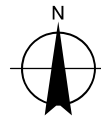


**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)**
- Exceeds NML
- Highly noise affected
- Highly intrusive
- Moderately intrusive
- Clearly audible
- Noticeable
- -



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
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Noise and Vibration Impact Assessment

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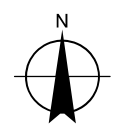
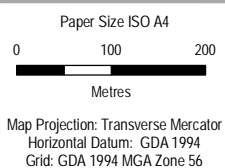
Predicted perception category maps  
Construction Scenario 1

**Appendix F**



**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)
  - Exceeds NML
  - Highly noise affected
  - Highly intrusive
  - Moderately intrusive
  - Clearly audible
  - Noticeable
  - -

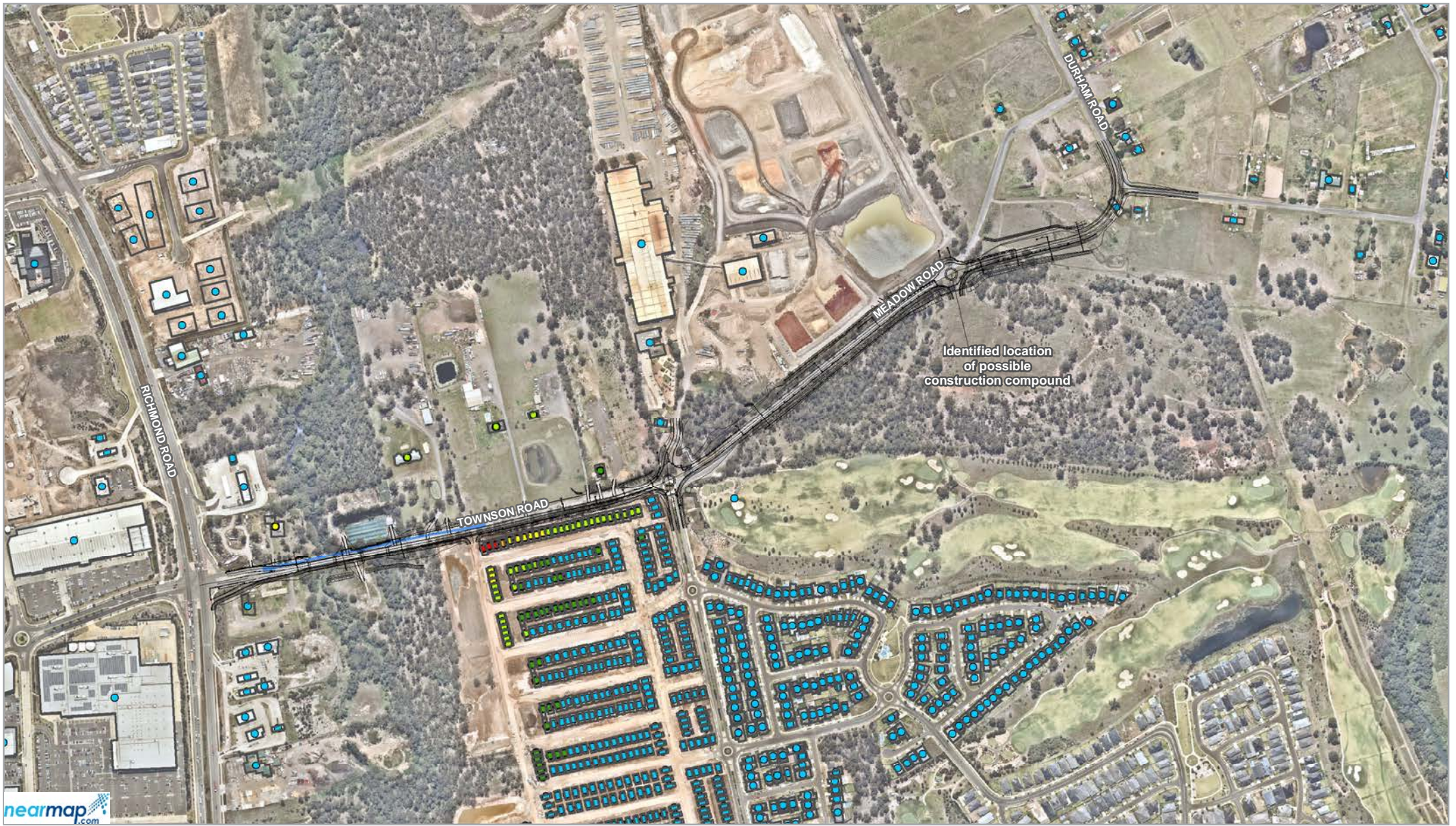


Transport for NSW  
Townson Road Upgrade Stage 1 Between  
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Predicted perception category maps  
Construction Scenario 2

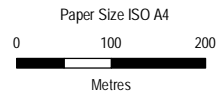
Project No. 12511195.0  
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**Appendix F**

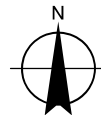


**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)
  - Highly noise affected
  - Highly intrusive
  - Moderately intrusive
  - Clearly audible
  - Noticeable
  - -



Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 56



Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment

Predicted perception category maps  
 Construction Scenario 3

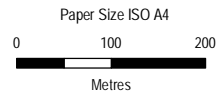
Project No. 12511195.0  
 Revision No. -  
 Date 03 Feb 2021

**Appendix F**



**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)**
- Clearly audible
- Noticeable
- 



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
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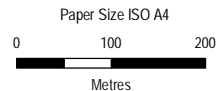
Predicted perception category maps  
Construction Scenario 4

**Appendix F**

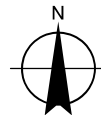


**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)
  - Moderately intrusive
  - Clearly audible
  - Noticeable



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



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Townson Road Upgrade Stage 1 Between  
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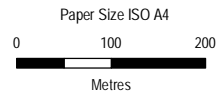
Predicted perception category maps  
Construction Scenario 5

**Appendix F**

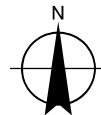


**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)**
- Exceeds NML
- Highly noise affected
- Highly intrusive
- Moderately intrusive
- Clearly audible
- Noticeable
- -



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



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Predicted perception category maps  
Construction Scenario 6

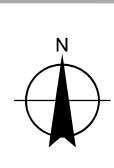
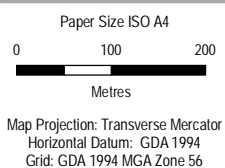
**Appendix F**





- LEGEND**
- The proposal (Interim) *Subject to detailed design*
  - Sensitive receivers
  - Construction area

- Predicted perception category (CNVG)**
- Highly noise affected
  - Highly intrusive
  - Moderately intrusive
  - Clearly audible
  - Noticeable
  -



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
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Predicted perception category maps  
Construction Scenario 7

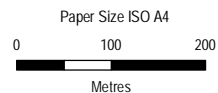
Project No. 12511195.0  
Revision No. -  
Date 03 Feb 2021

## Appendix F



**LEGEND**

- The proposal (Ultimate) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)
  - Exceeds NML
  - Highly noise affected
  - Highly intrusive
- Moderately intrusive
- Clearly audible
- Noticeable
- -



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56

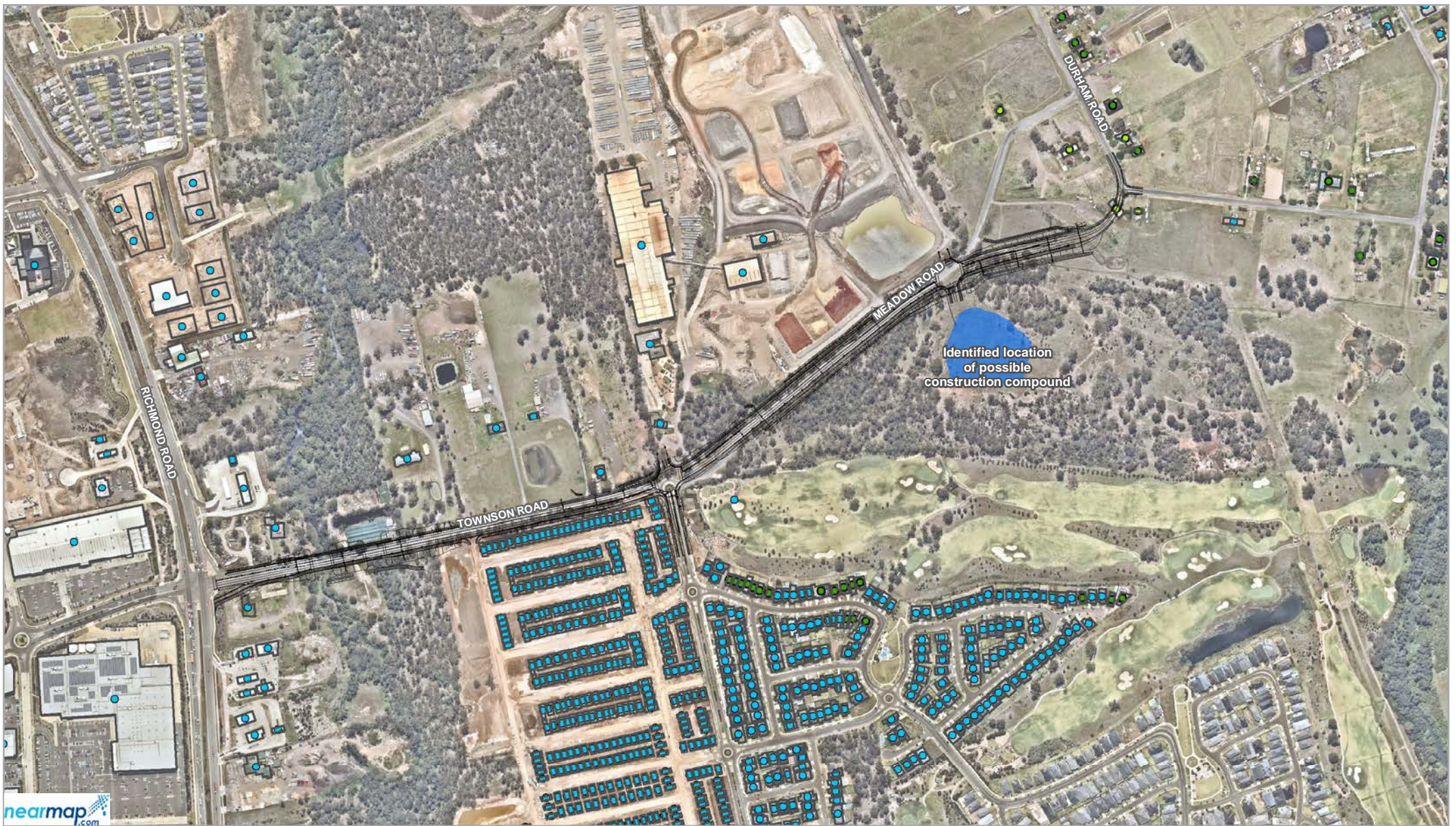


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Townson Road Upgrade Stage 1 Between  
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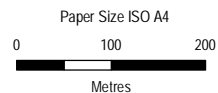
Predicted perception category maps  
Construction Scenario 8

**Appendix F**



**LEGEND**

- The proposal (Ultimate) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)**
- Clearly audible
- Noticeable
- 



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56

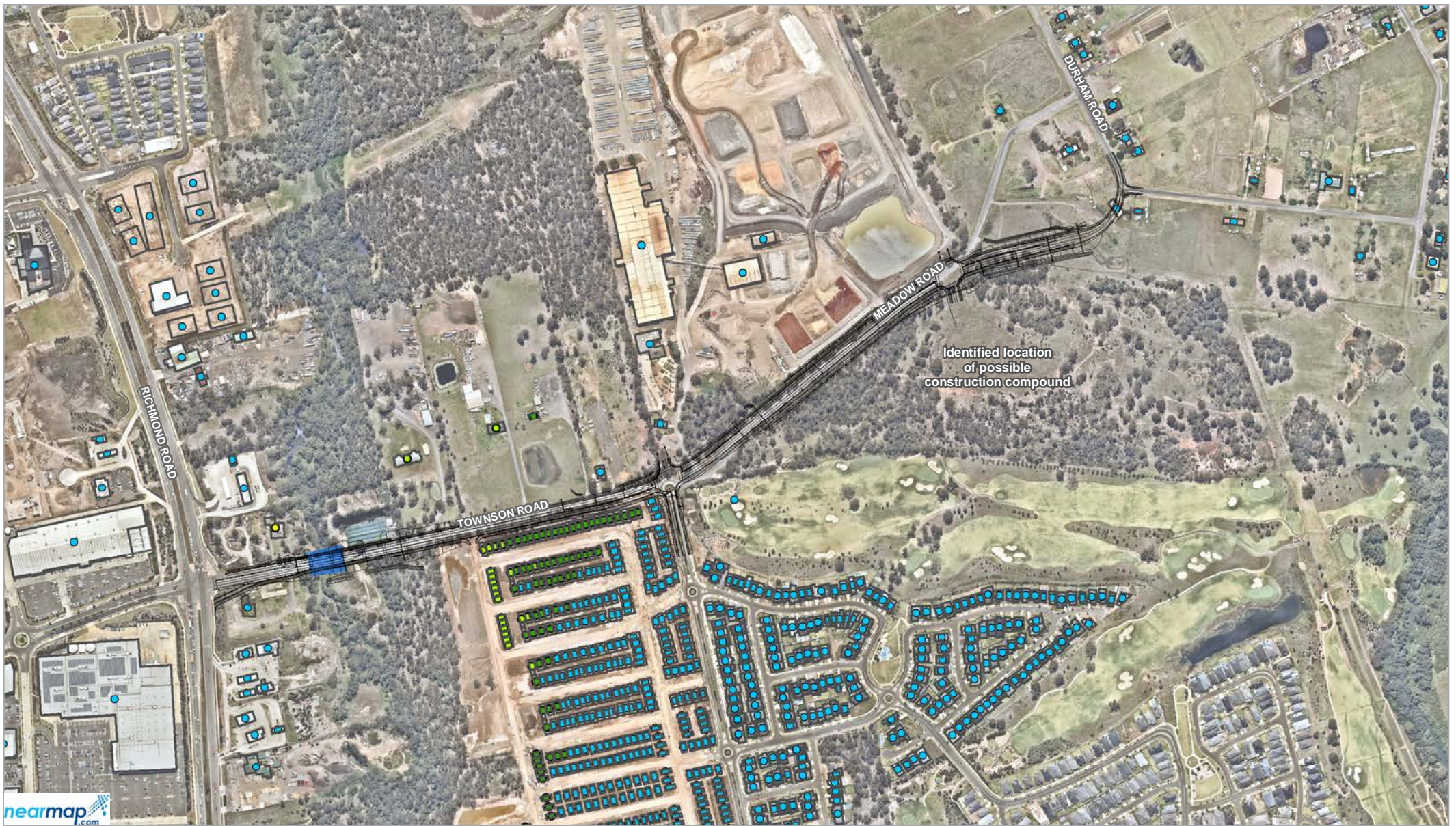


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Richmond Road and Jersey Road  
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Predicted perception category maps  
Construction Scenario 9

**Appendix F**



**LEGEND**

— The proposal (Ultimate) *Subject to detailed design*

□ Sensitive receivers

■ Construction area

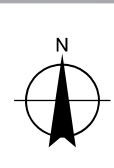
Predicted perception category (CNVG)

- Moderately intrusive
- Clearly audible
- Noticeable

Paper Size ISO A4

0 100 200 Metres

Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment

Predicted perception category maps  
Construction Scenario 10

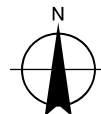
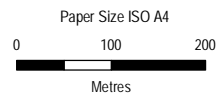
Project No. 12511195.0  
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Date 03 Feb 2021

**Appendix F**



**LEGEND**

- |   |                                      |                        |
|---|--------------------------------------|------------------------|
| — The proposal (Ultimate) <i>Subject to detailed design</i> | Predicted perception category (CNVG) | ● Moderately intrusive |
| □ Sensitive receivers                                       | ● Exceeds NML                        | ● Clearly audible      |
| ■ Construction area   | ● Highly noise affected              | ● Noticeable           |
|   | ● Highly intrusive                   | ● -                    |



Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 56



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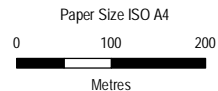
Predicted perception category maps  
 Construction Scenario 11

**Appendix F**

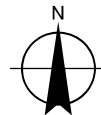


**LEGEND**

- The proposal (Ultimate) *Subject to detailed design*
- Sensitive receivers
- Construction area
- Predicted perception category (CNVG)
  - Exceeds NML
  - Highly noise affected
  - Highly intrusive
- Moderately intrusive
- Clearly audible
- Noticeable
- -



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
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Predicted perception category maps  
Construction Scenario 12

**Appendix F**

# **Appendix G** – Traffic counts and volumes used in the noise model

### Traffic counts – 2019 Existing conditions

Road	Section	Direction	Day (7:00 am to 10:00 pm)		Night (10:00 pm to 7:00 am)		Speed km/h
			Volume	HV%	Volume	HV%	
Richmond Road	Hawthorn Ave to Townson Road	NB	16755	13.3%	4165	13.3%	80
		SB	16537	12.1%	4208	12.1%	80
Richmond Road	Townson Road to Alderton Drive	NB	16809	13.3%	4178	13.3%	80
		SB	16940	12.1%	4310	12.1%	80
Victory Road	South of Townson Road	NB	2259	3.6%	239	3.1%	50
		SB	1987	7.4%	187	10.2%	50
Durham Road	-	NB	2355	13.8%	216	26.5%	60
		SB	2859	10.3%	201	10.9%	60
Jersey Road	-	EB	97	16.7%	7	20.2%	60
		WB	81	16.7%	10	20.2%	60
Townson Road Richmond Road to Victory Road	Richmond Road to Victory Road	EB	1444	11.0%	175	11.0%	60
		WB	1789	14.9%	246	21.2%	60
Townson Road Victory Road to Durham Road	Victory Road to Durham Road	EB	2540	13.8%	313	26.5%	60
		WB	2373	10.3%	232	10.9%	60



### Traffic forecasts – 2023 and 2028 No Build – Interim scenarios

Road	Section	Direction	HV%		No Build		Build		Speed km/h
			Day	Night	Day	Night	Day	Night	
Richmond Road	Hawthorn Ave to Townson Road	NB	18.8%	20.2%	22422	4921	23057	5060	80
		SB	18.8%	20.2%	22959	5038	23609	5181	80
Richmond Road	Townson Road to Alderton Drive	NB	18.8%	20.2%	20869	4580	21459	4709	80
		SB	18.8%	20.2%	23789	5221	24462	5368	80
Victory Road	South of Townson Road	NB	2.0%	2.0%	2279	263	2279	263	50
		SB	2.0%	2.0%	2140	247	2140	247	50
Durham Road	-	NB	5.6%	6.7%	2299	265	2299	265	60
		SB	5.6%	6.7%	3040	351	3040	351	60
Townson Road Richmond Road to Victory Road	Richmond Road to Victory Road	EB	5.6%	6.7%	1127	130	1127	130	60
		WB	5.6%	6.7%	2224	257	2224	257	60
Townson Road Victory Road to Durham Road	Victory Road to Durham Road	EB	5.6%	6.7%	2476	286	2476	286	60
		WB	5.6%	6.7%	3139	362	3139	362	60

### Traffic forecasts – 2028 and 2038 No Build – Ultimate phase scenarios

Road	Section	Direction	HV%		No Build		Build		Speed km/h
			Day	Night	Day	Night	Day	Night	
Richmond Road	Hawthorn Ave to Townson Road	NB	18.8%	20.2%	23057	5060	24368	5348	80
		SB	18.8%	20.2%	23609	5181	24951	5476	80
Richmond Road	Townson Road to Alderton Drive	NB	18.8%	20.2%	21459	4709	22680	4977	80
		SB	18.8%	20.2%	24462	5368	25854	5674	80
Victory Road	South of Townson Road	NB	2.0%	2.0%	2279	263	2279	263	50
		SB	2.0%	2.0%	2140	247	2140	247	50
Durham Road	-	NB	5.6%	6.7%	2299	265	2299	265	60
		SB	5.6%	6.7%	3040	351	3040	351	60
Townson Road Richmond Road to Victory Road	Richmond Road to Victory Road	EB	5.6%	6.7%	1127	130	1127	130	60
		WB	5.6%	6.7%	2224	257	2224	257	60
Townson Road Victory Road to Durham Road	Victory Road to Durham Road	EB	5.6%	6.7%	2476	286	2476	286	60
		WB	5.6%	6.7%	3139	362	3139	362	60

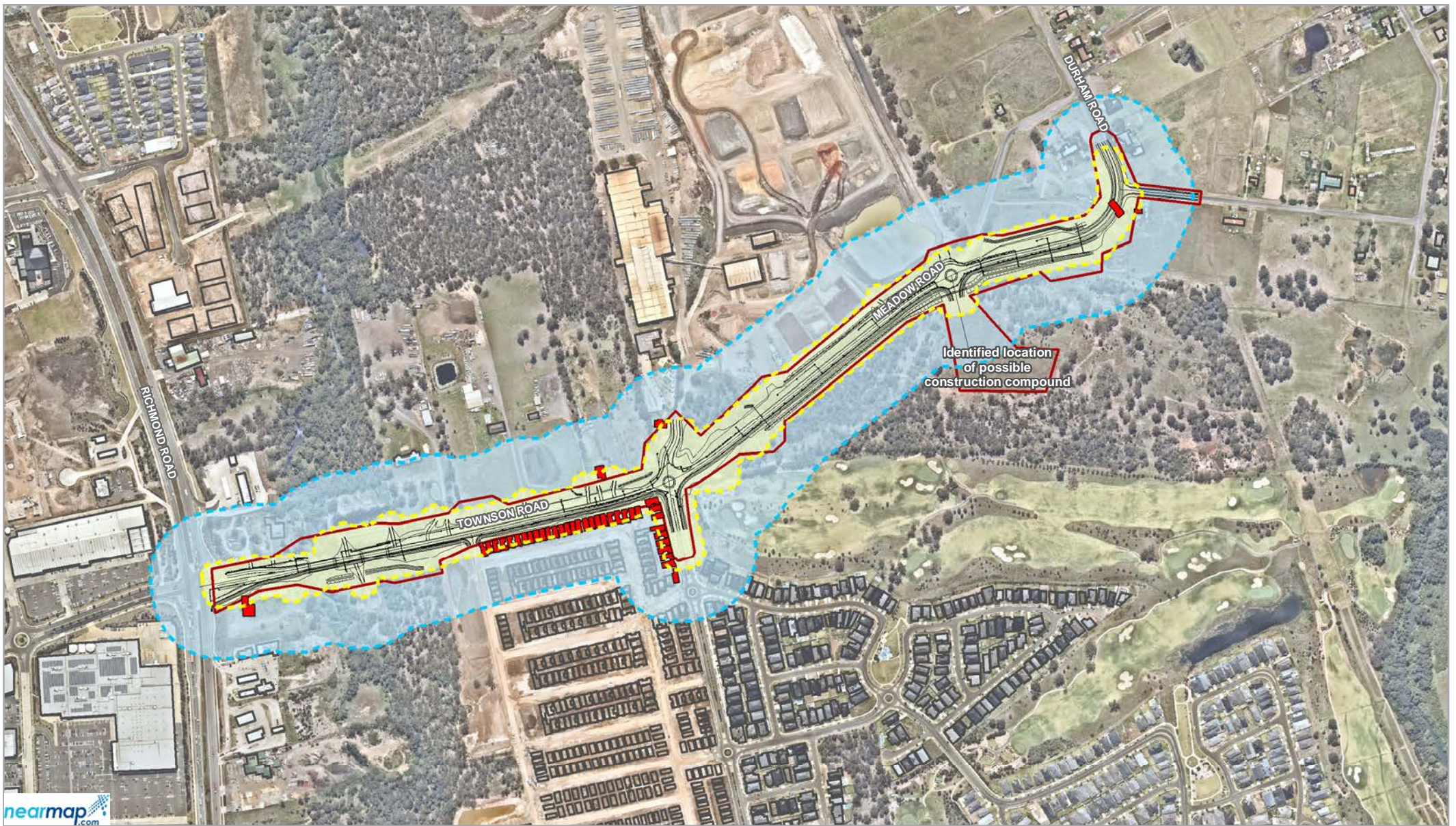
### Traffic forecasts – 2023 and 2023 Build – Interim scenarios

Road	Section	Direction	HV%		No Build		Build		Speed km/h
			Day	Night	Day	Night	Day	Night	
Richmond Road	Hawthorn Ave to Townson Road	NB	18.8%	20.2%	21844	4794	22708	4983	80
		SB	18.8%	20.2%	24075	5283	27095	5946	80
Richmond Road	Townson Road to Alderton Drive	NB	18.8%	20.2%	20331	4462	21136	4638	80
		SB	18.8%	20.2%	24185	5307	26363	5786	80
Victory Road	North of Townson Road	NB	2.0%	2.0%	2347	271	5282	610	50
		SB	2.0%	2.0%	2297	265	5167	597	50
Victory Road	South of Townson Road	NB	2.0%	2.0%	2932	338	3748	433	50
		SB	2.0%	2.0%	2517	291	2987	345	50
Durham Road	-	NB	5.6%	6.7%	2299	265	2299	265	60
		SB	5.6%	6.7%	3040	351	3040	351	60
New Road	South of Townson Road	NB	2.0%	2.0%	1182	136	2660	307	50
		SB	2.0%	2.0%	1244	144	2798	323	50
Townson Road	Richmond Road to Victory Road	EB	5.6%	6.7%	4218	487	8082	933	60
		WB	5.6%	6.7%	5312	613	9172	1059	60
Townson Road	Victory Road to New Road	EB	5.6%	6.7%	4507	520	7045	813	60
		WB	5.6%	6.7%	4987	576	7296	842	60
Townson Road	New Road to Durham Road	EB	5.6%	6.7%	2716	313	6110	705	60
		WB	5.6%	6.7%	3383	391	7612	879	60

### Traffic forecasts – 2028 and 2038 Build – Ultimate phase scenarios

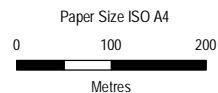
Road	Section	Direction	HV%		No Build		Build		Speed km/h
			Day	Night	Day	Night	Day	Night	
Richmond Road	Hawthorn Ave to Townson Road	NB	18.8%	20.2%	22360	4907	28656	6289	80
		SB	18.8%	20.2%	26660	5851	33303	7309	80
Richmond Road	Townson Road to Alderton Drive	NB	18.8%	20.2%	24124	5294	30941	6790	80
		SB	18.8%	20.2%	29454	6464	36588	8029	80
Victory Road	North of Townson Road	NB	2.0%	2.0%	5553	641	4828	557	50
		SB	2.0%	2.0%	5452	629	4740	547	50
Victory Road	South of Townson Road	NB	2.0%	2.0%	5685	656	5754	664	50
		SB	2.0%	2.0%	5620	649	5334	616	50
Durham Road	-	NB	5.6%	6.7%	2299	265	2299	265	60
		SB	5.6%	6.7%	3040	351	3040	351	60
New Road	North of Townson Road	NB	2.0%	2.0%	6248	721	6220	718	50
		SB	2.0%	2.0%	7546	871	6431	742	50
New Road	South of Townson Road	NB	2.0%	2.0%	3156	364	2743	317	50
		SB	2.0%	2.0%	3333	385	2898	334	50
Townson Road	Richmond Road to Victory Road	EB	5.6%	6.7%	11473	1324	11735	1355	60
		WB	5.6%	6.7%	12973	1498	13119	1514	60
Townson Road	Victory Road to New Road	EB	5.6%	6.7%	14865	1716	15363	1773	60
		WB	5.6%	6.7%	16212	1872	16213	1872	60
Townson Road	New Road to Durham Road	EB	5.6%	6.7%	12549	1449	12779	1475	60
		WB	5.6%	6.7%	13031	1504	13708	1582	60

# **Appendix H** – Vibration safe working distances and identified buildings

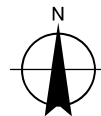


**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Construction footprint
- Structural damage buffer - 20 m
- Human comfort buffer - 100 m
- Buildings within structural damage safe working distance



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56

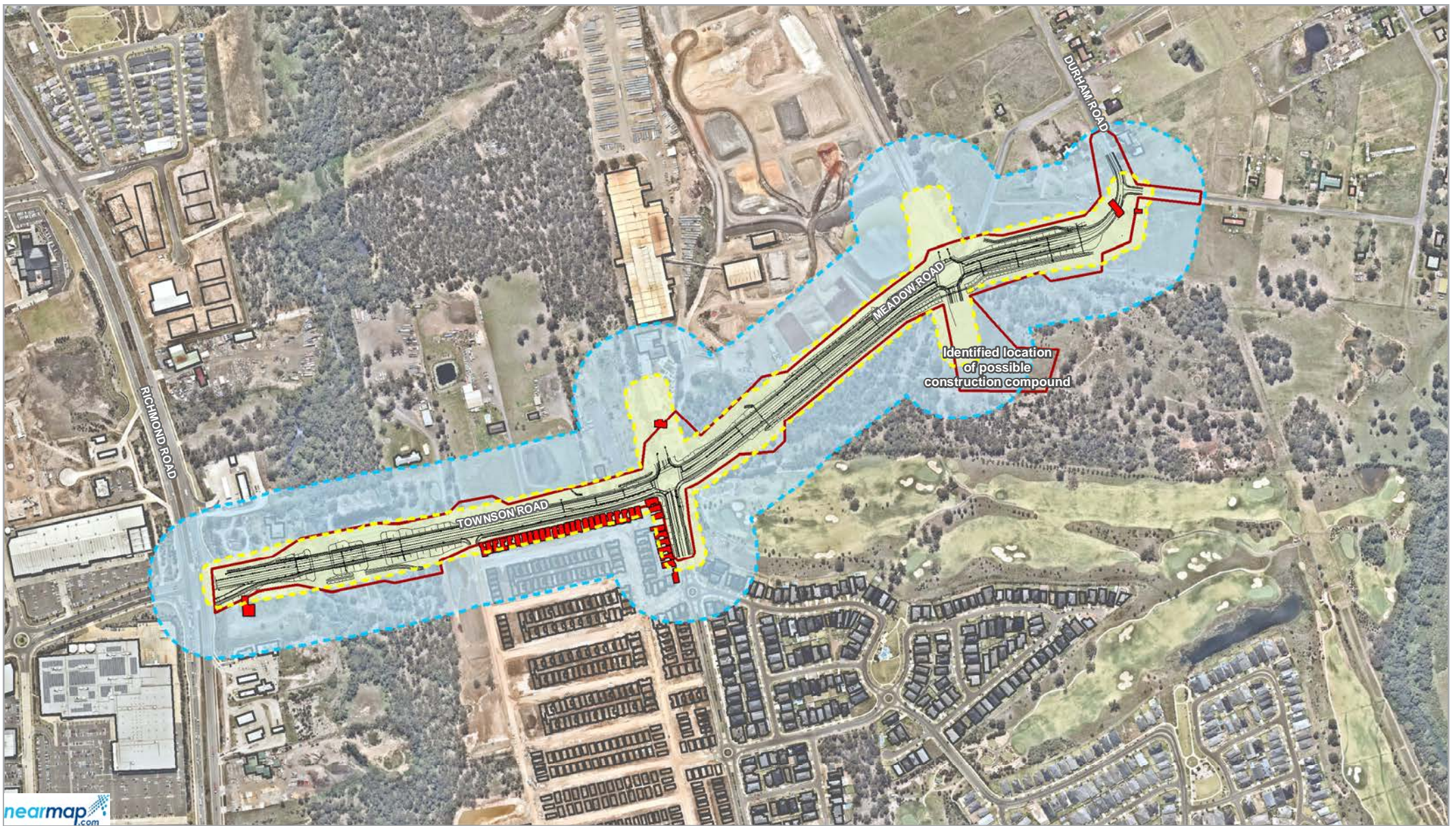


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Vibration safe working distances  
and identified buildings - Interim

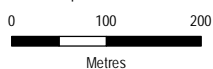
**Appendix H1**



**LEGEND**

- The proposal (Ultimate) *Subject to detailed design*
- Buildings within structural damage safe working distance
- ▭ Construction footprint
- ▭ Structural damage buffer - 20 m
- ▭ Human comfort buffer - 100 m

Paper Size ISO A4



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



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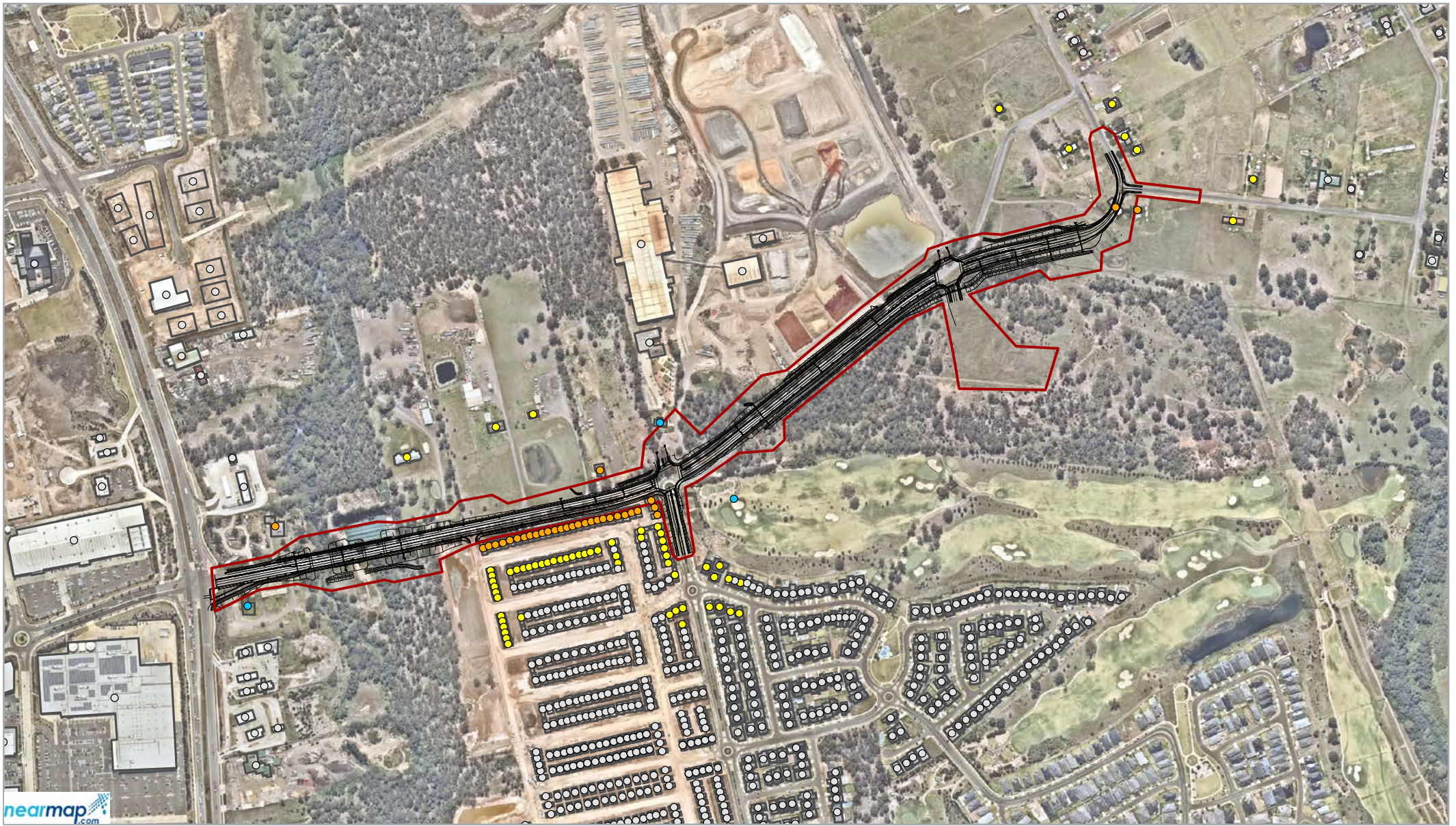
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Date 03 Feb 2021

Vibration safe working distances  
and identified buildings - Ultimate

**Appendix H2**

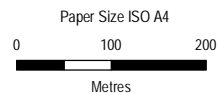
# **Appendix I** – Additional mitigation map – standard hours





**LEGEND**

- The proposal (Interim) *Subject to detailed design*
- Construction footprint
- Sensitive receivers
- Additional mitigation measures -Standard
- -
- N
- N, V
- N, V, PC, RO



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



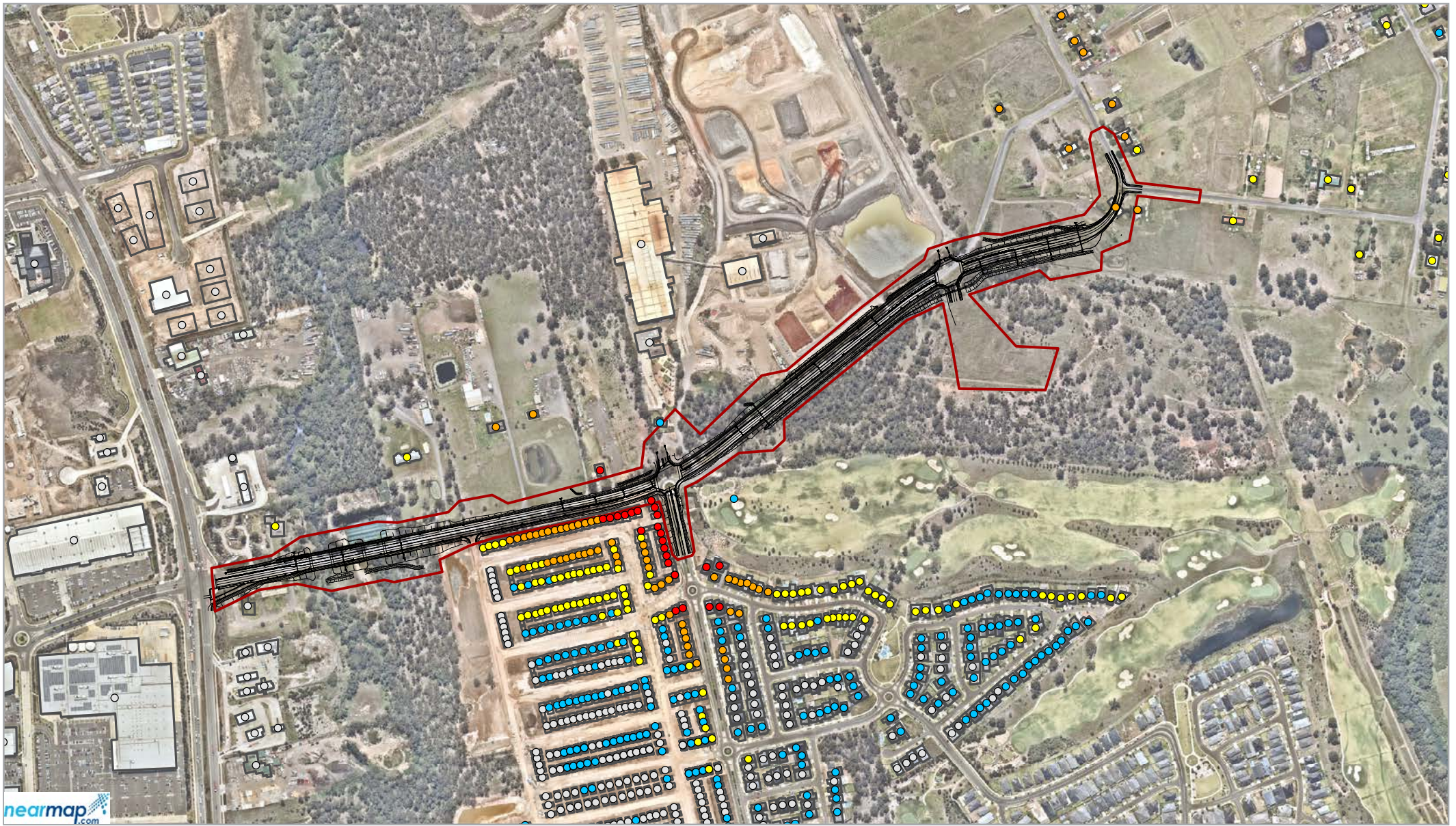
Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment

Project No. 12511195.0  
Revision No. -  
Date 02 Feb 2021

Additional mitigation map  
- standard hours

**Appendix I**

## **Appendix J** – Additional mitigation map – OOHW2 (Night) works

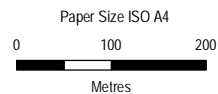


**LEGEND**

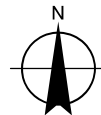
- The proposal (Interim) *Subject to detailed design*
- ▭ Construction footprint
- Sensitive receivers

- Additional mitigation measures - Standard
- -
  - AA, V, IB, N, PC, SN, R2, DR
  - N

- V, IB, N, PC, SN, R2, DR
- V, N, R2, DR



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment

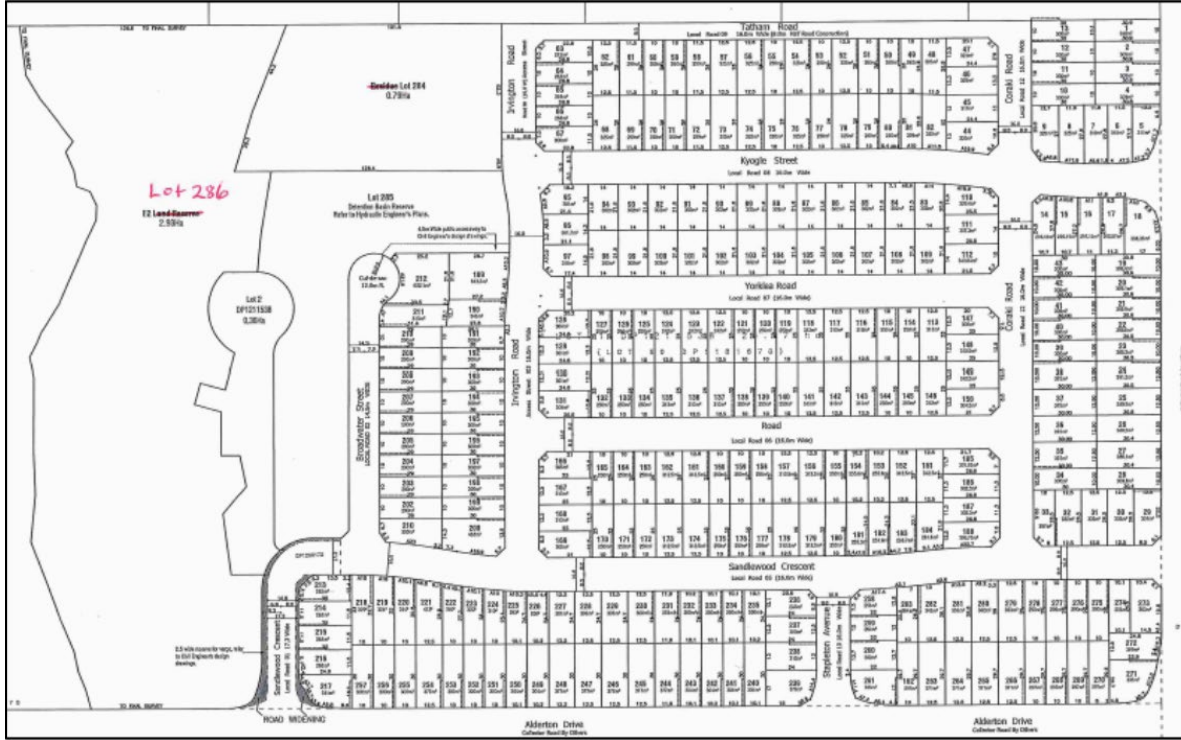
Project No. 12511195.0  
Revision No. -  
Date 02 Feb 2021

Additional mitigation map  
- OOHW2 (Night) works

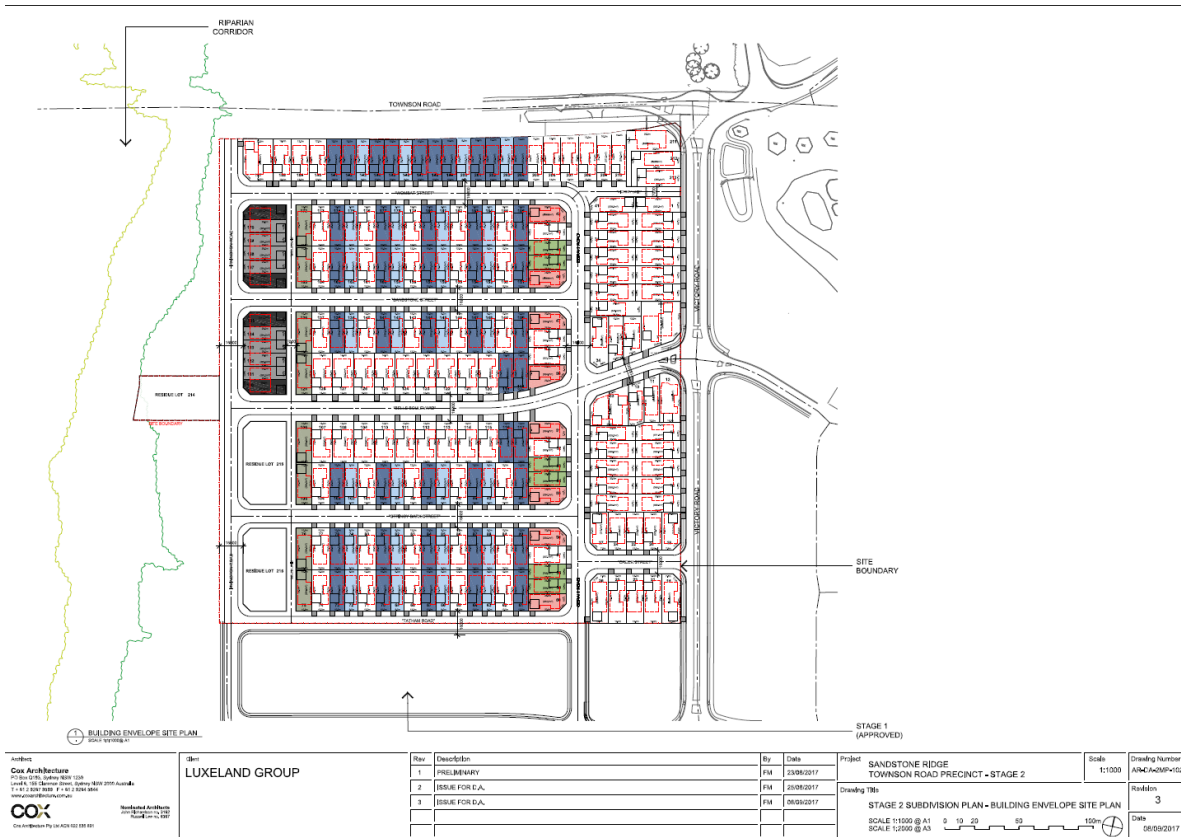
Appendix J

# **Appendix K** – Luxeland (Stage 1 and Stage 2) subdivision plans

**Stage 1 – DA16/04442**



**Stage 2 - DA17/01939**



<p>Author:  <b>Cox Architecture</b>                  1/111 St Johns Street, Sydney NSW 2000                  T +61 2 9231 9200 F +61 2 9231 9201                  www.coxarchitecture.com.au</p> <p><b>COX</b>                  Cox Architecture Pty Ltd ACN 102 188 801</p>	<p>Client:  <b>LUXELAND GROUP</b></p>	<table border="1"> <thead> <tr> <th>Rev</th> <th>Description</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRELIMINARY</td> <td>FM</td> <td>23/06/2017</td> </tr> <tr> <td>2</td> <td>ISSUE FOR I.A.</td> <td>FM</td> <td>23/06/2017</td> </tr> <tr> <td>3</td> <td>ISSUE FOR D.A.</td> <td>FM</td> <td>28/06/2017</td> </tr> </tbody> </table>	Rev	Description	By	Date	1	PRELIMINARY	FM	23/06/2017	2	ISSUE FOR I.A.	FM	23/06/2017	3	ISSUE FOR D.A.	FM	28/06/2017	<p>Project:  <b>SANDSTONE RIDGE                  TOWNSHIP ROAD PRECINCT - STAGE 2</b></p> <p>Drawing Title:  <b>STAGE 2 SUBDIVISION PLAN - BUILDING ENVELOPE SITE PLAN</b></p> <p>Scale:                  SCALE 1:1500 @ A1                  SCALE 1:2000 @ A3</p>	<p>Scale:                  1:1500</p> <p>Drawing Number:                  AHC/2017/01939</p> <p>Revision:                  3</p> <p>Date:                  28/06/2017</p>
Rev	Description	By	Date																	
1	PRELIMINARY	FM	23/06/2017																	
2	ISSUE FOR I.A.	FM	23/06/2017																	
3	ISSUE FOR D.A.	FM	28/06/2017																	

# **Appendix L** – Operational noise results and criteria















Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing/Future Usage, NCA, and noise metrics for 2022, 2023, and 2024. Includes sub-headers for '2022 to 2023' and '2023 to 2024' with metrics like '2022 to 2023 dB(A) Day', '2022 to 2023 dB(A) Night', etc.





















Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing / Future, Usage, NCA, and noise metrics for 2023 and 2028 (including 2023 and 2028 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th). Rows include details for various development stages and receiver locations.











Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing / Future / Use, Usage, NCA, and various noise metrics (2023 to 2033) including dB(A) and dB(A)1/3, along with compliance status (Yes/No) and notes.



































Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing/Future, Usage, NCA, 2026 to 2036 (2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036), NB 2026 Existing only, NB 2026 Existing only - night, NB 2026 Project only, NB 2026 Project only - night, B 2026 Existing only, B 2026 Existing only - night, B 2026 Project only, B 2026 Project only - night, Change in noise level 2026-2033, Change in noise level 2026-2033 - night, NCA Predicted (2026-2033), NCA Predicted (2026-2033) - night, Noise contour (day), Noise contour (night), Daytime (day), Daytime (night), Night (day), Night (night), Mitigation, No. of floors, Quality of life, and other metrics.















Receiver ID	Property address	2020 to 2021	Z	Floor	Direction	Existing / Future	Usage	NCA	2020 to 2021	2023 to 2024	2025 to 2026	2027 to 2028	2029 to 2030	2031 to 2032	2033 to 2034	2035 to 2036	2037 to 2038	2039 to 2040	2041 to 2042	2043 to 2044	2045 to 2046	2047 to 2048	2049 to 2050	2051 to 2052	2053 to 2054	2055 to 2056	2057 to 2058	2059 to 2060	2061 to 2062	2063 to 2064	2065 to 2066	2067 to 2068	2069 to 2070	2071 to 2072	2073 to 2074	2075 to 2076	2077 to 2078	2079 to 2080	2081 to 2082	2083 to 2084	2085 to 2086	2087 to 2088	2089 to 2090	2091 to 2092	2093 to 2094	2095 to 2096	2097 to 2098	2099 to 2100	2101 to 2102	2103 to 2104	2105 to 2106	2107 to 2108	2109 to 2110	2111 to 2112	2113 to 2114	2115 to 2116	2117 to 2118	2119 to 2120	2121 to 2122	2123 to 2124	2125 to 2126	2127 to 2128	2129 to 2130	2131 to 2132	2133 to 2134	2135 to 2136	2137 to 2138	2139 to 2140	2141 to 2142	2143 to 2144	2145 to 2146	2147 to 2148	2149 to 2150	2151 to 2152	2153 to 2154	2155 to 2156	2157 to 2158	2159 to 2160	2161 to 2162	2163 to 2164	2165 to 2166	2167 to 2168	2169 to 2170	2171 to 2172	2173 to 2174	2175 to 2176	2177 to 2178	2179 to 2180	2181 to 2182	2183 to 2184	2185 to 2186	2187 to 2188	2189 to 2190	2191 to 2192	2193 to 2194	2195 to 2196	2197 to 2198	2199 to 2200	2201 to 2202	2203 to 2204	2205 to 2206	2207 to 2208	2209 to 2210	2211 to 2212	2213 to 2214	2215 to 2216	2217 to 2218	2219 to 2220	2221 to 2222	2223 to 2224	2225 to 2226	2227 to 2228	2229 to 2230	2231 to 2232	2233 to 2234	2235 to 2236	2237 to 2238	2239 to 2240	2241 to 2242	2243 to 2244	2245 to 2246	2247 to 2248	2249 to 2250	2251 to 2252	2253 to 2254	2255 to 2256	2257 to 2258	2259 to 2260	2261 to 2262	2263 to 2264	2265 to 2266	2267 to 2268	2269 to 2270	2271 to 2272	2273 to 2274	2275 to 2276	2277 to 2278	2279 to 2280	2281 to 2282	2283 to 2284	2285 to 2286	2287 to 2288	2289 to 2290	2291 to 2292	2293 to 2294	2295 to 2296	2297 to 2298	2299 to 2300	2301 to 2302	2303 to 2304	2305 to 2306	2307 to 2308	2309 to 2310	2311 to 2312	2313 to 2314	2315 to 2316	2317 to 2318	2319 to 2320	2321 to 2322	2323 to 2324	2325 to 2326	2327 to 2328	2329 to 2330	2331 to 2332	2333 to 2334	2335 to 2336	2337 to 2338	2339 to 2340	2341 to 2342	2343 to 2344	2345 to 2346	2347 to 2348	2349 to 2350	2351 to 2352	2353 to 2354	2355 to 2356	2357 to 2358	2359 to 2360	2361 to 2362	2363 to 2364	2365 to 2366	2367 to 2368	2369 to 2370	2371 to 2372	2373 to 2374	2375 to 2376	2377 to 2378	2379 to 2380	2381 to 2382	2383 to 2384	2385 to 2386	2387 to 2388	2389 to 2390	2391 to 2392	2393 to 2394	2395 to 2396	2397 to 2398	2399 to 2400	2401 to 2402	2403 to 2404	2405 to 2406	2407 to 2408	2409 to 2410	2411 to 2412	2413 to 2414	2415 to 2416	2417 to 2418	2419 to 2420	2421 to 2422	2423 to 2424	2425 to 2426	2427 to 2428	2429 to 2430	2431 to 2432	2433 to 2434	2435 to 2436	2437 to 2438	2439 to 2440	2441 to 2442	2443 to 2444	2445 to 2446	2447 to 2448	2449 to 2450	2451 to 2452	2453 to 2454	2455 to 2456	2457 to 2458	2459 to 2460	2461 to 2462	2463 to 2464	2465 to 2466	2467 to 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2622	2623 to 2624	2625 to 2626	2627 to 2628	2629 to 2630	2631 to 2632	2633 to 2634	2635 to 2636	2637 to 2638	2639 to 2640	2641 to 2642	2643 to 2644	2645 to 2646	2647 to 2648	2649 to 2650	2651 to 2652	2653 to 2654	2655 to 2656	2657 to 2658	2659 to 2660	2661 to 2662	2663 to 2664	2665 to 2666	2667 to 2668	2669 to 2670	2671 to 2672	2673 to 2674	2675 to 2676	2677 to 2678	2679 to 2680	2681 to 2682	2683 to 2684	2685 to 2686	2687 to 2688	2689 to 2690	2691 to 2692	2693 to 2694	2695 to 2696	2697 to 2698	2699 to 2700	2701 to 2702	2703 to 2704	2705 to 2706	2707 to 2708	2709 to 2710	2711 to 2712	2713 to 2714	2715 to 2716	2717 to 2718	2719 to 2720	2721 to 2722	2723 to 2724	2725 to 2726	2727 to 2728	2729 to 2730	2731 to 2732	2733 to 2734	2735 to 2736	2737 to 2738	2739 to 2740	2741 to 2742	2743 to 2744	2745 to 2746	2747 to 2748	2749 to 2750	2751 to 2752	2753 to 2754	2755 to 2756	2757 to 2758	2759 to 2760	2761 to 2762	2763 to 2764	2765 to 2766	2767 to 2768	2769 to 2770	2771 to 2772	2773 to 2774	2775 to 2776	2777 to 2778	2779 to 2780	2781 to 2782	2783 to 2784	2785 to 2786	2787 to 2788	2789 to 2790	2791 to 2792	2793 to 2794	2795 to 2796	2797 to 2798	2799 to 2800	2801 to 2802	2803 to 2804	2805 to 2806	2807 to 2808	2809 to 2810	2811 to 2812	2813 to 2814	2815 to 2816	2817 to 2818	2819 to 2820	2821 to 2822	2823 to 2824	2825 to 2826	2827 to 2828	2829 to 2830	2831 to 2832	2833 to 2834	2835 to 2836	2837 to 2838	2839 to 2840	2841 to 2842	2843 to 2844	2845 to 2846	2847 to 2848	2849 to 2850	2851 to 2852	2853 to 2854	2855 to 2856	2857 to 2858	2859 to 2860	2861 to 2862	2863 to 2864	2865 to 2866	2867 to 2868	2869 to 2870	2871 to 2872	2873 to 2874	2875 to 2876	2877 to 2878	2879 to 2880	2881 to 2882	2883 to 2884	2885 to 2886	2887 to 2888	2889 to 2890	2891 to 2892	2893 to 2894	2895 to 2896	2897 to 2898	2899 to 2900	2901 to 2902	2903 to 2904	2905 to 2906	2907 to 2908	2909 to 2910	2911 to 2912	2913 to 2914	2915 to 2916	2917 to 2918	2919 to 2920	2921 to 2922	2923 to 2924	2925 to 2926	2927 to 2928	2929 to 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Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2030 to 2038	2039 to 2043	2044 to 2048	2049 to 2053	2054 to 2058	2059 to 2063	2064 to 2068	2069 to 2073	2074 to 2078	2079 to 2083	2084 to 2088	2089 to 2093	2094 to 2098	2099 to 2103	2104 to 2108	2109 to 2113	2114 to 2118	2119 to 2123	2124 to 2128	2129 to 2133	2134 to 2138	2139 to 2143	2144 to 2148	2149 to 2153	2154 to 2158	2159 to 2163	2164 to 2168	2169 to 2173	2174 to 2178	2179 to 2183	2184 to 2188	2189 to 2193	2194 to 2198	2199 to 2203	2204 to 2208	2209 to 2213	2214 to 2218	2219 to 2223	2224 to 2228	2229 to 2233	2234 to 2238	2239 to 2243	2244 to 2248	2249 to 2253	2254 to 2258	2259 to 2263	2264 to 2268	2269 to 2273	2274 to 2278	2279 to 2283	2284 to 2288	2289 to 2293	2294 to 2298	2299 to 2303	2304 to 2308	2309 to 2313	2314 to 2318	2319 to 2323	2324 to 2328	2329 to 2333	2334 to 2338	2339 to 2343	2344 to 2348	2349 to 2353	2354 to 2358	2359 to 2363	2364 to 2368	2369 to 2373	2374 to 2378	2379 to 2383	2384 to 2388	2389 to 2393	2394 to 2398	2399 to 2403	2404 to 2408	2409 to 2413	2414 to 2418	2419 to 2423	2424 to 2428	2429 to 2433	2434 to 2438	2439 to 2443	2444 to 2448	2449 to 2453	2454 to 2458	2459 to 2463	2464 to 2468	2469 to 2473	2474 to 2478	2479 to 2483	2484 to 2488	2489 to 2493	2494 to 2498	2499 to 2503	2504 to 2508	2509 to 2513	2514 to 2518	2519 to 2523	2524 to 2528	2529 to 2533	2534 to 2538	2539 to 2543	2544 to 2548	2549 to 2553	2554 to 2558	2559 to 2563	2564 to 2568	2569 to 2573	2574 to 2578	2579 to 2583	2584 to 2588	2589 to 2593	2594 to 2598	2599 to 2603	2604 to 2608	2609 to 2613	2614 to 2618	2619 to 2623	2624 to 2628	2629 to 2633	2634 to 2638	2639 to 2643	2644 to 2648	2649 to 2653	2654 to 2658	2659 to 2663	2664 to 2668	2669 to 2673	2674 to 2678	2679 to 2683	2684 to 2688	2689 to 2693	2694 to 2698	2699 to 2703	2704 to 2708	2709 to 2713	2714 to 2718	2719 to 2723	2724 to 2728	2729 to 2733	2734 to 2738	2739 to 2743	2744 to 2748	2749 to 2753	2754 to 2758	2759 to 2763	2764 to 2768	2769 to 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Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2030 to 2038	2039 to 2043	2044 to 2048	2049 to 2053	2054 to 2058	2059 to 2063	2064 to 2068	2069 to 2073	2074 to 2078	2079 to 2083	2084 to 2088	2089 to 2093	2094 to 2098	2099 to 2103	2104 to 2108	2109 to 2113	2114 to 2118	2119 to 2123	2124 to 2128	2129 to 2133	2134 to 2138	2139 to 2143	2144 to 2148	2149 to 2153	2154 to 2158	2159 to 2163	2164 to 2168	2169 to 2173	2174 to 2178	2179 to 2183	2184 to 2188	2189 to 2193	2194 to 2198	2199 to 2203	2204 to 2208	2209 to 2213	2214 to 2218	2219 to 2223	2224 to 2228	2229 to 2233	2234 to 2238	2239 to 2243	2244 to 2248	2249 to 2253	2254 to 2258	2259 to 2263	2264 to 2268	2269 to 2273	2274 to 2278	2279 to 2283	2284 to 2288	2289 to 2293	2294 to 2298	2299 to 2303	2304 to 2308	2309 to 2313	2314 to 2318	2319 to 2323	2324 to 2328	2329 to 2333	2334 to 2338	2339 to 2343	2344 to 2348	2349 to 2353	2354 to 2358	2359 to 2363	2364 to 2368	2369 to 2373	2374 to 2378	2379 to 2383	2384 to 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Receiver ID	Property address	X	Z	Floor	Direction	Existing / Future	Usage	NCA	2026 to 2030		2030 to 2038		2038 to 2046		2046 to 2054		2054 to 2062		2062 to 2070		2070 to 2078		2078 to 2086		2086 to 2094		2094 to 2102		2102 to 2110		2110 to 2118		2118 to 2126		2126 to 2134		2134 to 2142		2142 to 2150		2150 to 2158		2158 to 2166		2166 to 2174		2174 to 2182		2182 to 2190		2190 to 2198		2198 to 2206		2206 to 2214		2214 to 2222		2222 to 2230		2230 to 2238		2238 to 2246		2246 to 2254		2254 to 2262		2262 to 2270		2270 to 2278		2278 to 2286		2286 to 2294		2294 to 2302		2302 to 2310		2310 to 2318		2318 to 2326		2326 to 2334		2334 to 2342		2342 to 2350		2350 to 2358		2358 to 2366		2366 to 2374		2374 to 2382		2382 to 2390		2390 to 2398		2398 to 2406		2406 to 2414		2414 to 2422		2422 to 2430		2430 to 2438		2438 to 2446		2446 to 2454		2454 to 2462		2462 to 2470		2470 to 2478		2478 to 2486		2486 to 2494		2494 to 2502		2502 to 2510		2510 to 2518		2518 to 2526		2526 to 2534		2534 to 2542		2542 to 2550		2550 to 2558		2558 to 2566		2566 to 2574		2574 to 2582		2582 to 2590		2590 to 2598		2598 to 2606		2606 to 2614		2614 to 2622		2622 to 2630		2630 to 2638		2638 to 2646		2646 to 2654		2654 to 2662		2662 to 2670		2670 to 2678		2678 to 2686		2686 to 2694		2694 to 2702		2702 to 2710		2710 to 2718		2718 to 2726		2726 to 2734		2734 to 2742		2742 to 2750		2750 to 2758		2758 to 2766		2766 to 2774		2774 to 2782		2782 to 2790		2790 to 2798		2798 to 2806		2806 to 2814		2814 to 2822		2822 to 2830		2830 to 2838		2838 to 2846		2846 to 2854		2854 to 2862		2862 to 2870		2870 to 2878		2878 to 2886		2886 to 2894		2894 to 2902		2902 to 2910		2910 to 2918		2918 to 2926		2926 to 2934		2934 to 2942		2942 to 2950		2950 to 2958		2958 to 2966		2966 to 2974		2974 to 2982		2982 to 2990		2990 to 2998		2998 to 3006		3006 to 3014		3014 to 3022		3022 to 3030		3030 to 3038		3038 to 3046		3046 to 3054		3054 to 3062		3062 to 3070		3070 to 3078		3078 to 3086		3086 to 3094		3094 to 3102		3102 to 3110		3110 to 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5958		5958 to 5966		5966 to 5974		5974 to 5982		5982 to 5990		5990 to 5998		5998 to 6006		6006 to 6014		6014 to 6022		6022 to 6030		6030 to 6038		6038 to 6046		6046 to 6054		6054 to 6062		6062 to 6070		6070 to 6078		6078 to 6086		6086 to 6094		6094 to 6102		6102 to 6110		6110 to 6118		6118 to 6126		6126 to 6134		6134 to 6142		6142 to 6150		6150 to 6158		6158 to 6166		6166 to 6174		6174 to 6182		6182 to 6190		6190 to 6198		6198 to 6206		6206 to 6214		6214 to 6222		6222 to 6230		6230 to 6238		6238 to 6246		6246 to 6254		6254 to 6262		6262 to 6270		6270 to 6278		6278 to 6286		6286 to 6294		6294 to 6302		6302 to 6310		6310 to 6318		6318 to 6326		6326 to 6334		6334 to 6342		6342 to 6350		6350 to 6358		6358 to 6366		6366 to 6374		6374 to 6382		6382 to 6390		6390 to 6398		6398 to 6406		6406 to 6414		6414 to 6422		6422 to 6430		6430 to 6438		6438 to 6446		6446 to 6454		6454 to 6462		6462 to 6470		6470 to 6478		6478 to 6486		6486 to 6494		6494 to 6502		6502 to 6510		6510 to 6518		6518 to 6526		6526 to 6534		6534 to 6542		6542 to 6550		6550 to 6558		6558 to 6566		6566 to 6574		6574 to 6582		6582 to 6590		6590 to 6598		6598 to 6606		6606 to 6614		6614 to 6622		6622 to 6630		6630 to 6638		6638 to 6646		6646 to 6654		6654 to 6662		6662 to 6670		6670 to 6678		6678 to 6686		6686 to 6694		6694 to 6702		6702 to 6710		6710 to 6718		6718 to 6726		6726 to 6734		6734 to 6742		6742 to 6750		6750 to 6758		6758 to 6766		6766 to 6774		6774 to 6782		6782 to 6790		6790 to 6798		6798 to 6806		6806 to 6814		6814 to 6822		6822 to 6830		6830 to 6838		6838 to 6846		6846 to 6854		6854 to 6862		6862 to 6870		6870 to 6878		6878 to 6886		6886 to 6894		6894 to 6902		6902 to 6910		6910 to 6918		6918 to 6926		6926 to 6934		6934 to 6942		6942 to 6950		6950 to 6958		6958 to 6966		6966 to 6974		6974 to 6982		6982 to 6990		6990 to 6998		6998 to 7006		7006 to 7014		7014 to 7022		7022 to 7030		7030 to 7038		7038 to 7046		7046 to 7054		7054 to 7062		7062 to 7070		7070 to 7078		7078 to 7086		7086 to 7094		7094 to 7102		7102 to 7110		7110 to 7118		7118 to 7126		7126 to 7134		7134 to 7142		7142 to 7150		7150 to 7158		71	
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Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2026 to 2038		2038 to 2050		2050 to 2062		2062 to 2074		2074 to 2086		2086 to 2098		2098 to 2110		2110 to 2122		2122 to 2134		2134 to 2146		2146 to 2158		2158 to 2170		2170 to 2182		2182 to 2194		2194 to 2206		2206 to 2218		2218 to 2230		2230 to 2242		2242 to 2254		2254 to 2266		2266 to 2278		2278 to 2290		2290 to 2302		2302 to 2314		2314 to 2326		2326 to 2338		2338 to 2350		2350 to 2362		2362 to 2374		2374 to 2386		2386 to 2398		2398 to 2410		2410 to 2422		2422 to 2434		2434 to 2446		2446 to 2458		2458 to 2470		2470 to 2482		2482 to 2494		2494 to 2506		2506 to 2518		2518 to 2530		2530 to 2542		2542 to 2554		2554 to 2566		2566 to 2578		2578 to 2590		2590 to 2602		2602 to 2614		2614 to 2626		2626 to 2638		2638 to 2650		2650 to 2662		2662 to 2674		2674 to 2686		2686 to 2698		2698 to 2710		2710 to 2722		2722 to 2734		2734 to 2746		2746 to 2758		2758 to 2770		2770 to 2782		2782 to 2794		2794 to 2806		2806 to 2818		2818 to 2830		2830 to 2842		2842 to 2854		2854 to 2866		2866 to 2878		2878 to 2890		2890 to 2902		2902 to 2914		2914 to 2926		2926 to 2938		2938 to 2950		2950 to 2962		2962 to 2974		2974 to 2986		2986 to 2998		2998 to 3010		3010 to 3022		3022 to 3034		3034 to 3046		3046 to 3058		3058 to 3070		3070 to 3082		3082 to 3094		3094 to 3106		3106 to 3118		3118 to 3130		3130 to 3142		3142 to 3154		3154 to 3166		3166 to 3178		3178 to 3190		3190 to 3202		3202 to 3214		3214 to 3226		3226 to 3238		3238 to 3250		3250 to 3262		3262 to 3274		3274 to 3286		3286 to 3298		3298 to 3310		3310 to 3322		3322 to 3334		3334 to 3346		3346 to 3358		3358 to 3370		3370 to 3382		3382 to 3394		3394 to 3406		3406 to 3418		3418 to 3430		3430 to 3442		3442 to 3454		3454 to 3466		3466 to 3478		3478 to 3490		3490 to 3502		3502 to 3514		3514 to 3526		3526 to 3538		3538 to 3550		3550 to 3562		3562 to 3574		3574 to 3586		3586 to 3598		3598 to 3610		3610 to 3622		3622 to 3634		3634 to 3646		3646 to 3658		3658 to 3670		3670 to 3682		3682 to 3694		3694 to 3706		3706 to 3718		3718 to 3730		3730 to 3742		3742 to 3754		3754 to 3766		3766 to 3778		3778 to 3790		3790 to 3802		3802 to 3814		3814 to 3826		3826 to 3838		3838 to 3850		3850 to 3862		3862 to 3874		3874 to 3886		3886 to 3898		3898 to 3910		3910 to 3922		3922 to 3934		3934 to 3946		3946 to 3958		3958 to 3970		3970 to 3982		3982 to 3994		3994 to 4006		4006 to 4018		4018 to 4030		4030 to 4042		4042 to 4054		4054 to 4066		4066 to 4078		4078 to 4090		4090 to 4102		4102 to 4114		4114 to 4126		4126 to 4138		4138 to 4150		4150 to 4162		4162 to 4174		4174 to 4186		4186 to 4198		4198 to 4210		4210 to 4222		4222 to 4234		4234 to 4246		4246 to 4258		4258 to 4270		4270 to 4282		4282 to 4294		4294 to 4306		4306 to 4318		4318 to 4330		4330 to 4342		4342 to 4354		4354 to 4366		4366 to 4378		4378 to 4390		4390 to 4402		4402 to 4414		4414 to 4426		4426 to 4438		4438 to 4450		4450 to 4462		4462 to 4474		4474 to 4486		4486 to 4498		4498 to 4510		4510 to 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5374		5374 to 5386		5386 to 5398		5398 to 5410		5410 to 5422		5422 to 5434		5434 to 5446		5446 to 5458		5458 to 5470		5470 to 5482		5482 to 5494		5494 to 5506		5506 to 5518		5518 to 5530		5530 to 5542		5542 to 5554		5554 to 5566		5566 to 5578		5578 to 5590		5590 to 5602		5602 to 5614		5614 to 5626		5626 to 5638		5638 to 5650		5650 to 5662		5662 to 5674		5674 to 5686		5686 to 5698		5698 to 5710		5710 to 5722		5722 to 5734		5734 to 5746		5746 to 5758		5758 to 5770		5770 to 5782		5782 to 5794		5794 to 5806		5806 to 5818		5818 to 5830		5830 to 5842		5842 to 5854		5854 to 5866		5866 to 5878		5878 to 5890		5890 to 5902		5902 to 5914		5914 to 5926		5926 to 5938		5938 to 5950		5950 to 5962		5962 to 5974		5974 to 5986		5986 to 5998		5998 to 6010		6010 to 6022		6022 to 6034		6034 to 6046		6046 to 6058		6058 to 6070		6070 to 6082		6082 to 6094		6094 to 6106		6106 to 6118		6118 to 6130		6130 to 6142		6142 to 6154		6154 to 6166		6166 to 6178		6178 to 6190		6190 to 6202		6202 to 6214		6214 to 6226		6226 to 6238		6238 to 6250		6250 to 6262		6262 to 6274		6274 to 6286		6286 to 6298		6298 to 6310		6310 to 6322		6322 to 6334		6334 to 6346		6346 to 6358		6358 to 6370		6370 to 6382		6382 to 6394		6394 to 6406		6406 to 6418		6418 to 6430		6430 to 6442		6442 to 6454		6454 to 6466		6466 to 6478		6478 to 6490		6490 to 6502		6502 to 6514		6514 to 6526		6526 to 6538		6538 to 6550		6550 to 6562		6562 to 6574		6574 to 6586		6586 to 6598		6598 to 6610		6610 to 6622		6622 to 6634		6634 to 6646		6646 to 6658		6658 to 6670		6670 to 6682		6682 to 6694		6694 to 6706		6706 to 6718		6718 to 6730		6730 to 6742		6742 to 6754		6754 to 6766		6766 to 6778		6778 to 6790		6790 to 6802		6802 to 6814		6814 to 6826		6826 to 6838		6838 to 6850		6850 to 6862		6862 to 6874		6874 to 6886		6886 to 6898		6898 to 6910		6910 to 6922		6922 to 6934		6934 to 6946		6946 to 6958		6958 to 6970		6970 to 6982		6982 to 6994		6994 to 7006		7006 to 7018		7018 to 7030		7030 to 7042		7042 to 7054		7054 to 7066		7066 to 7078		7078 to 7090		7090 to 7102		7102 to 7114		7114 to 7126		7126 to 7138		7138 to 7150		7150 to 7162		7162 to 7174		7174 to 7186		7186 to 7198		7198 to 7210		7210 to 7222		7222 to 7234		7234 to 7246		7246 to 7258		7258 to 7270		7270 to 7282		7282 to 7294		7294 to 7306		7306 to 7318		7318 to 7330		7330 to 7342		7342 to 7354		7354 to 7366		7366 to 7378		7378 to 7390		7390 to 7402		7402 to 7414		7414 to 7426		7426 to 7438		7438 to 7450		7450 to 7462		7462 to 7474		7474 to 7486		7486 to 7498		7498 to 7510		7510 to 7522		7522 to 7534		7534 to 7546		7546 to 7558		7558 to 7570		7570 to 7582		7582 to 7594		7594 to 7606		7606 to 7618		7618 to 7630		7630 to 7642		7642 to 7654		7654 to 7666		7666 to 7678		7678 to 7690		7690 to 7702		7702 to 7714		7714 to 7726		7726 to 7738		7738 to 7750		7750 to 7762		7762 to 7774		7774 to 7786		7786 to 7798		7798 to 7810		7810 to 7822		7822 to 7834		7834 to 7846		7846 to 7858		7858 to 7870		7870 to 7882		7882 to 7894		7894 to 7906		7906 to 7918		7918 to 7930		7930 to 7942		7942 to 7954		7954 to 7966		7966 to 7978		7978 to 7990		7990 to 8002		8002 to 8014		8014 to 8026		8026 to 8038		8038 to 8050		8050 to 8062		8062 to 8074		8074 to 8086		8086 to 8098		8098 to 8110		8110 to 8122		8122 to 8134		8134 to 8146		8146 to 8158		8158 to 8170		8170 to 8182		8182 to 8194		8194 to 8206		8206 to 8218		8218 to 8230		8230 to 8242		8242 to 8254		8254 to 8266		8266 to 8278		8278 to 8290		8290 to 8302		8302 to 8314		8314 to 8326		8326 to 8338		8338 to 8350		8350 to 8362		8362 to 8374		8374 to 8386		8386 to 8398		8398 to 8410		8410 to 8422		8422 to 8434		8434 to 8446		8446 to 8458		8458 to 8470		8470 to 8482		8482 to 8494		8494 to 8506		8506 to 8518		8518 to 8530		8530 to 8542		8542 to 8554		8554 to 8566		8566 to 8578		8578 to 8590		8590 to 8602		8602 to 8614		8614 to 8626		8626 to 8638		8638 to 8650		8650 to 8662		8662 to 8674		8674 to 8686		8686 to 8698		8698 to 8710		8710 to 8722		8722 to 8734		8734 to 8746		8746 to 8758		8758 to 8770		8770 to 8782		8782 to 8794		8794 to 8806		8806 to 8818		8818 to 8830		8830 to 8842		8842 to 8854		8854 to 8866		8866 to 8878		8878 to 8890		8890 to 8902		8902 to 8914		8914 to 8926		8926 to 8938		8938 to 8950		8950 to 8962		8962 to 8974		8974 to 8986		8986 to 8998		8998 to 9010		9010 to 9022		9022 to 9034		9034 to 9046		9046 to 9058		9058 to 9070		9070 to 9082		9082 to 9094		9094 to 9106		9106 to 9118		9118 to 9130		9130 to 9142		9142 to 9154		9154 to 9166		9166 to 9178		9178 to 9190		9190 to 9202		9202 to 9214		9214 to 9226		9226 to 9238		9238 to 9250		9250 to 9262		9262 to 9274		9274 to 9286		9286 to 9298		9298 to 9310		9310 to 9322		9322 to 9334		9334 to 9346		9346 to 9358		9358 to 9370		9370 to 9382		9382 to 9394		9394 to 9406		9406 to 9418		9418 to 9430		9430 to 9442		9442 to 9454		9454 to 9466		9466 to 9478		9478 to 9490		9490 to 9502		9502 to 9514		9514 to 9526		9526 to 9538		9538 to 9550		9550 to 9562		9562 to 9574		9574 to 9586		9586 to 9598		9598 to 9610		9610 to 9622		9622 to 9634		9634 to 9646		9646 to 9658		9658 to 9670		9670 to 9682		9682 to 9694		9694 to 9706		9706 to 9718		9718 to 9730</	
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Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing/Future, Usage, NCA, and noise metrics (2020 to 2035) for various receptors (R0325 to R0351).













Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2026 to 2030		2031 to 2035		2036 to 2040		2041 to 2045		2046 to 2050		2051 to 2055		2056 to 2060		2061 to 2065		2066 to 2070		2071 to 2075		2076 to 2080		2081 to 2085		2086 to 2090		2091 to 2095		2096 to 2100		2101 to 2105		2106 to 2110		2111 to 2115		2116 to 2120		2121 to 2125		2126 to 2130		2131 to 2135		2136 to 2140		2141 to 2145		2146 to 2150		2151 to 2155		2156 to 2160		2161 to 2165		2166 to 2170		2171 to 2175		2176 to 2180		2181 to 2185		2186 to 2190		2191 to 2195		2196 to 2200		2201 to 2205		2206 to 2210		2211 to 2215		2216 to 2220		2221 to 2225		2226 to 2230		2231 to 2235		2236 to 2240		2241 to 2245		2246 to 2250		2251 to 2255		2256 to 2260		2261 to 2265		2266 to 2270		2271 to 2275		2276 to 2280		2281 to 2285		2286 to 2290		2291 to 2295		2296 to 2300		2301 to 2305		2306 to 2310		2311 to 2315		2316 to 2320		2321 to 2325		2326 to 2330		2331 to 2335		2336 to 2340		2341 to 2345		2346 to 2350		2351 to 2355		2356 to 2360		2361 to 2365		2366 to 2370		2371 to 2375		2376 to 2380		2381 to 2385		2386 to 2390		2391 to 2395		2396 to 2400		2401 to 2405		2406 to 2410		2411 to 2415		2416 to 2420		2421 to 2425		2426 to 2430		2431 to 2435		2436 to 2440		2441 to 2445		2446 to 2450		2451 to 2455		2456 to 2460		2461 to 2465		2466 to 2470		2471 to 2475		2476 to 2480		2481 to 2485		2486 to 2490		2491 to 2495		2496 to 2500		2501 to 2505		2506 to 2510		2511 to 2515		2516 to 2520		2521 to 2525		2526 to 2530		2531 to 2535		2536 to 2540		2541 to 2545		2546 to 2550		2551 to 2555		2556 to 2560		2561 to 2565		2566 to 2570		2571 to 2575		2576 to 2580		2581 to 2585		2586 to 2590		2591 to 2595		2596 to 2600		2601 to 2605		2606 to 2610		2611 to 2615		2616 to 2620		2621 to 2625		2626 to 2630		2631 to 2635		2636 to 2640		2641 to 2645		2646 to 2650		2651 to 2655		2656 to 2660		2661 to 2665		2666 to 2670		2671 to 2675		2676 to 2680		2681 to 2685		2686 to 2690		2691 to 2695		2696 to 2700		2701 to 2705		2706 to 2710		2711 to 2715		2716 to 2720		2721 to 2725		2726 to 2730		2731 to 2735		2736 to 2740		2741 to 2745		2746 to 2750		2751 to 2755		2756 to 2760		2761 to 2765		2766 to 2770		2771 to 2775		2776 to 2780		2781 to 2785		2786 to 2790		2791 to 2795		2796 to 2800		2801 to 2805		2806 to 2810		2811 to 2815		2816 to 2820		2821 to 2825		2826 to 2830		2831 to 2835		2836 to 2840		2841 to 2845		2846 to 2850		2851 to 2855		2856 to 2860		2861 to 2865		2866 to 2870		2871 to 2875		2876 to 2880		2881 to 2885		2886 to 2890		2891 to 2895		2896 to 2900		2901 to 2905		2906 to 2910		2911 to 2915		2916 to 2920		2921 to 2925		2926 to 2930		2931 to 2935		2936 to 2940		2941 to 2945		2946 to 2950		2951 to 2955		2956 to 2960		2961 to 2965		2966 to 2970		2971 to 2975		2976 to 2980		2981 to 2985		2986 to 2990		2991 to 2995		2996 to 3000		3001 to 3005		3006 to 3010		3011 to 3015		3016 to 3020		3021 to 3025		3026 to 3030		3031 to 3035		3036 to 3040		3041 to 3045		3046 to 3050		3051 to 3055		3056 to 3060		3061 to 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4130		4131 to 4135		4136 to 4140		4141 to 4145		4146 to 4150		4151 to 4155		4156 to 4160		4161 to 4165		4166 to 4170		4171 to 4175		4176 to 4180		4181 to 4185		4186 to 4190		4191 to 4195		4196 to 4200		4201 to 4205		4206 to 4210		4211 to 4215		4216 to 4220		4221 to 4225		4226 to 4230		4231 to 4235		4236 to 4240		4241 to 4245		4246 to 4250		4251 to 4255		4256 to 4260		4261 to 4265		4266 to 4270		4271 to 4275		4276 to 4280		4281 to 4285		4286 to 4290		4291 to 4295		4296 to 4300		4301 to 4305		4306 to 4310		4311 to 4315		4316 to 4320		4321 to 4325		4326 to 4330		4331 to 4335		4336 to 4340		4341 to 4345		4346 to 4350		4351 to 4355		4356 to 4360		4361 to 4365		4366 to 4370		4371 to 4375		4376 to 4380		4381 to 4385		4386 to 4390		4391 to 4395		4396 to 4400		4401 to 4405		4406 to 4410		4411 to 4415		4416 to 4420		4421 to 4425		4426 to 4430		4431 to 4435		4436 to 4440		4441 to 4445		4446 to 4450		4451 to 4455		4456 to 4460		4461 to 4465		4466 to 4470		4471 to 4475		4476 to 4480		4481 to 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Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing/Future, Usage, NCA, and noise metrics for various scenarios (2026, 2036, 2046, 2056, 2066, 2076, 2086, 2096, 2106, 2116, 2126, 2136, 2146, 2156, 2166, 2176, 2186, 2196, 2206, 2216, 2226, 2236, 2246, 2256, 2266, 2276, 2286, 2296, 2306, 2316, 2326, 2336, 2346, 2356, 2366, 2376, 2386, 2396, 2406, 2416, 2426, 2436, 2446, 2456, 2466, 2476, 2486, 2496, 2506, 2516, 2526, 2536, 2546, 2556, 2566, 2576, 2586, 2596, 2606, 2616, 2626, 2636, 2646, 2656, 2666, 2676, 2686, 2696, 2706, 2716, 2726, 2736, 2746, 2756, 2766, 2776, 2786, 2796, 2806, 2816, 2826, 2836, 2846, 2856, 2866, 2876, 2886, 2896, 2906, 2916, 2926, 2936, 2946, 2956, 2966, 2976, 2986, 2996, 3006).

Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2026 to 2036		2036 to 2046		2046 to 2056		2056 to 2066		2066 to 2076		2076 to 2086		2086 to 2096		2099 to 2109		2109 to 2119		2119 to 2129		2129 to 2139		2139 to 2149		2149 to 2159		2159 to 2169		2169 to 2179		2179 to 2189		2189 to 2199		2199 to 2209		2209 to 2219		2219 to 2229		2229 to 2239		2239 to 2249		2249 to 2259		2259 to 2269		2269 to 2279		2279 to 2289		2289 to 2299		2299 to 2309		2309 to 2319		2319 to 2329		2329 to 2339		2339 to 2349		2349 to 2359		2359 to 2369		2369 to 2379		2379 to 2389		2389 to 2399		2399 to 2409		2409 to 2419		2419 to 2429		2429 to 2439		2439 to 2449		2449 to 2459		2459 to 2469		2469 to 2479		2479 to 2489		2489 to 2499		2499 to 2509		2509 to 2519		2519 to 2529		2529 to 2539		2539 to 2549		2549 to 2559		2559 to 2569		2569 to 2579		2579 to 2589		2589 to 2599		2599 to 2609		2609 to 2619		2619 to 2629		2629 to 2639		2639 to 2649		2649 to 2659		2659 to 2669		2669 to 2679		2679 to 2689		2689 to 2699		2699 to 2709		2709 to 2719		2719 to 2729		2729 to 2739		2739 to 2749		2749 to 2759		2759 to 2769		2769 to 2779		2779 to 2789		2789 to 2799		2799 to 2809		2809 to 2819		2819 to 2829		2829 to 2839		2839 to 2849		2849 to 2859		2859 to 2869		2869 to 2879		2879 to 2889		2889 to 2899		2899 to 2909		2909 to 2919		2919 to 2929		2929 to 2939		2939 to 2949		2949 to 2959		2959 to 2969		2969 to 2979		2979 to 2989		2989 to 2999		2999 to 3009		3009 to 3019		3019 to 3029		3029 to 3039		3039 to 3049		3049 to 3059		3059 to 3069		3069 to 3079		3079 to 3089		3089 to 3099		3099 to 3109		3109 to 3119		3119 to 3129		3129 to 3139		3139 to 3149		3149 to 3159		3159 to 3169		3169 to 3179		3179 to 3189		3189 to 3199		3199 to 3209		3209 to 3219		3219 to 3229		3229 to 3239		3239 to 3249		3249 to 3259		3259 to 3269		3269 to 3279		3279 to 3289		3289 to 3299		3299 to 3309		3309 to 3319		3319 to 3329		3329 to 3339		3339 to 3349		3349 to 3359		3359 to 3369		3369 to 3379		3379 to 3389		3389 to 3399		3399 to 3409		3409 to 3419		3419 to 3429		3429 to 3439		3439 to 3449		3449 to 3459		3459 to 3469		3469 to 3479		3479 to 3489		3489 to 3499		3499 to 3509		3509 to 3519		3519 to 3529		3529 to 3539		3539 to 3549		3549 to 3559		3559 to 3569		3569 to 3579		3579 to 3589		3589 to 3599		3599 to 3609		3609 to 3619		3619 to 3629		3629 to 3639		3639 to 3649		3649 to 3659		3659 to 3669		3669 to 3679		3679 to 3689		3689 to 3699		3699 to 3709		3709 to 3719		3719 to 3729		3729 to 3739		3739 to 3749		3749 to 3759		3759 to 3769		3769 to 3779		3779 to 3789		3789 to 3799		3799 to 3809		3809 to 3819		3819 to 3829		3829 to 3839		3839 to 3849		3849 to 3859		3859 to 3869		3869 to 3879		3879 to 3889		3889 to 3899		3899 to 3909		3909 to 3919		3919 to 3929		3929 to 3939		3939 to 3949		3949 to 3959		3959 to 3969		3969 to 3979		3979 to 3989		3989 to 3999		3999 to 4009		4009 to 4019		4019 to 4029		4029 to 4039		4039 to 4049		4049 to 4059		4059 to 4069		4069 to 4079		4079 to 4089		4089 to 4099		4099 to 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Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2026 to 2036		2036 to 2046		2046 to 2056		2056 to 2066		2066 to 2076		2076 to 2086		2086 to 2096		2099 to 2109		2109 to 2119		2119 to 2129		2129 to 2139		2139 to 2149		2149 to 2159		2159 to 2169		2169 to 2179		2179 to 2189		2189 to 2199		2199 to 2209		2209 to 2219		2219 to 2229		2229 to 2239		2239 to 2249		2249 to 2259		2259 to 2269		2269 to 2279		2279 to 2289		2289 to 2299		2299 to 2309		2309 to 2319		2319 to 2329		2329 to 2339		2339 to 2349		2349 to 2359		2359 to 2369		2369 to 2379		2379 to 2389		2389 to 2399		2399 to 2409		2409 to 2419		2419 to 2429		2429 to 2439		2439 to 2449		2449 to 2459		2459 to 2469		2469 to 2479		2479 to 2489		2489 to 2499		2499 to 2509		2509 to 2519		2519 to 2529		2529 to 2539		2539 to 2549		2549 to 2559		2559 to 2569		2569 to 2579		2579 to 2589		2589 to 2599		2599 to 2609		2609 to 2619		2619 to 2629		2629 to 2639		2639 to 2649		2649 to 2659		2659 to 2669		2669 to 2679		2679 to 2689		2689 to 2699		2699 to 2709		2709 to 2719		2719 to 2729		2729 to 2739		2739 to 2749		2749 to 2759		2759 to 2769		2769 to 2779		2779 to 2789		2789 to 2799		2799 to 2809		2809 to 2819		2819 to 2829		2829 to 2839		2839 to 2849		2849 to 2859		2859 to 2869		2869 to 2879		2879 to 2889		2889 to 2899		2899 to 2909		2909 to 2919		2919 to 2929		2929 to 2939		2939 to 2949		2949 to 2959		2959 to 2969		2969 to 2979		2979 to 2989		2989 to 2999		2999 to 3009		3009 to 3019		3019 to 3029		3029 to 3039		3039 to 3049		3049 to 3059		3059 to 3069		3069 to 3079		3079 to 3089		3089 to 3099		3099 to 3109		3109 to 3119		3119 to 3129		3129 to 3139		3139 to 3149		3149 to 3159		3159 to 3169		3169 to 3179		3179 to 3189		3189 to 3199		3199 to 3209		3209 to 3219		3219 to 3229		3229 to 3239		3239 to 3249		3249 to 3259		3259 to 3269		3269 to 3279		3279 to 3289		3289 to 3299		3299 to 3309		3309 to 3319		3319 to 3329		3329 to 3339		3339 to 3349		3349 to 3359		3359 to 3369		3369 to 3379		3379 to 3389		3389 to 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Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing/Future, Usage, NCA, and various noise metrics (2026, 2036, 2046, 2056, 2066, 2076, 2086, 2096, 2106, 2116, 2126, 2136, 2146, 2156, 2166, 2176, 2186, 2196, 2206, 2216, 2226, 2236, 2246, 2256, 2266, 2276, 2286, 2296, 2306, 2316, 2326, 2336, 2346, 2356, 2366, 2376, 2386, 2396, 2406, 2416, 2426, 2436, 2446, 2456, 2466, 2476, 2486, 2496, 2506, 2516, 2526, 2536, 2546, 2556, 2566, 2576, 2586, 2596, 2606, 2616, 2626, 2636, 2646, 2656, 2666, 2676, 2686, 2696, 2706, 2716, 2726, 2736, 2746, 2756, 2766, 2776, 2786, 2796, 2806, 2816, 2826, 2836, 2846, 2856, 2866, 2876, 2886, 2896, 2906, 2916, 2926, 2936, 2946, 2956, 2966, 2976, 2986, 2996, 3006).



Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing/Future, Usage, NCA, and noise metrics for various days (2026-2038) and metrics (NC10-NC15, NC16-NC20, etc.).





Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2026 to 2036		2036 to 2046		2046 to 2056		2056 to 2066		2066 to 2076		2076 to 2086		2086 to 2096		2099 to 2109		2109 to 2119		2119 to 2129		2129 to 2139		2139 to 2149		2149 to 2159		2159 to 2169		2169 to 2179		2179 to 2189		2189 to 2199		2199 to 2209		2209 to 2219		2219 to 2229		2229 to 2239		2239 to 2249		2249 to 2259		2259 to 2269		2269 to 2279		2279 to 2289		2289 to 2299		2299 to 2309		2309 to 2319		2319 to 2329		2329 to 2339		2339 to 2349		2349 to 2359		2359 to 2369		2369 to 2379		2379 to 2389		2389 to 2399		2399 to 2409		2409 to 2419		2419 to 2429		2429 to 2439		2439 to 2449		2449 to 2459		2459 to 2469		2469 to 2479		2479 to 2489		2489 to 2499		2499 to 2509		2509 to 2519		2519 to 2529		2529 to 2539		2539 to 2549		2549 to 2559		2559 to 2569		2569 to 2579		2579 to 2589		2589 to 2599		2599 to 2609		2609 to 2619		2619 to 2629		2629 to 2639		2639 to 2649		2649 to 2659		2659 to 2669		2669 to 2679		2679 to 2689		2689 to 2699		2699 to 2709		2709 to 2719		2719 to 2729		2729 to 2739		2739 to 2749		2749 to 2759		2759 to 2769		2769 to 2779		2779 to 2789		2789 to 2799		2799 to 2809		2809 to 2819		2819 to 2829		2829 to 2839		2839 to 2849		2849 to 2859		2859 to 2869		2869 to 2879		2879 to 2889		2889 to 2899		2899 to 2909		2909 to 2919		2919 to 2929		2929 to 2939		2939 to 2949		2949 to 2959		2959 to 2969		2969 to 2979		2979 to 2989		2989 to 2999		2999 to 3009		3009 to 3019		3019 to 3029		3029 to 3039		3039 to 3049		3049 to 3059		3059 to 3069		3069 to 3079		3079 to 3089		3089 to 3099		3099 to 3109		3109 to 3119		3119 to 3129		3129 to 3139		3139 to 3149		3149 to 3159		3159 to 3169		3169 to 3179		3179 to 3189		3189 to 3199		3199 to 3209		3209 to 3219		3219 to 3229		3229 to 3239		3239 to 3249		3249 to 3259		3259 to 3269		3269 to 3279		3279 to 3289		3289 to 3299		3299 to 3309		3309 to 3319		3319 to 3329		3329 to 3339		3339 to 3349		3349 to 3359		3359 to 3369		3369 to 3379		3379 to 3389		3389 to 3399		3399 to 3409		3409 to 3419		3419 to 3429		3429 to 3439		3439 to 3449		3449 to 3459		3459 to 3469		3469 to 3479		3479 to 3489		3489 to 3499		3499 to 3509		3509 to 3519		3519 to 3529		3529 to 3539		3539 to 3549		3549 to 3559		3559 to 3569		3569 to 3579		3579 to 3589		3589 to 3599		3599 to 3609		3609 to 3619		3619 to 3629		3629 to 3639		3639 to 3649		3649 to 3659		3659 to 3669		3669 to 3679		3679 to 3689		3689 to 3699		3699 to 3709		3709 to 3719		3719 to 3729		3729 to 3739		3739 to 3749		3749 to 3759		3759 to 3769		3769 to 3779		3779 to 3789		3789 to 3799		3799 to 3809		3809 to 3819		3819 to 3829		3829 to 3839		3839 to 3849		3849 to 3859		3859 to 3869		3869 to 3879		3879 to 3889		3889 to 3899		3899 to 3909		3909 to 3919		3919 to 3929		3929 to 3939		3939 to 3949		3949 to 3959		3959 to 3969		3969 to 3979		3979 to 3989		3989 to 3999		3999 to 4009		4009 to 4019		4019 to 4029		4029 to 4039		4039 to 4049		4049 to 4059		4059 to 4069		4069 to 4079		4079 to 4089		4089 to 4099		4099 to 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Table with columns: Receiver ID, Property address, X, Y, Z, Floor, Direction, Existing/Future, Usage, NCA, and 24-hour noise levels (LAeq) for various road types (e.g., 2030 to 2050) and metrics like NC10, NC15, etc.





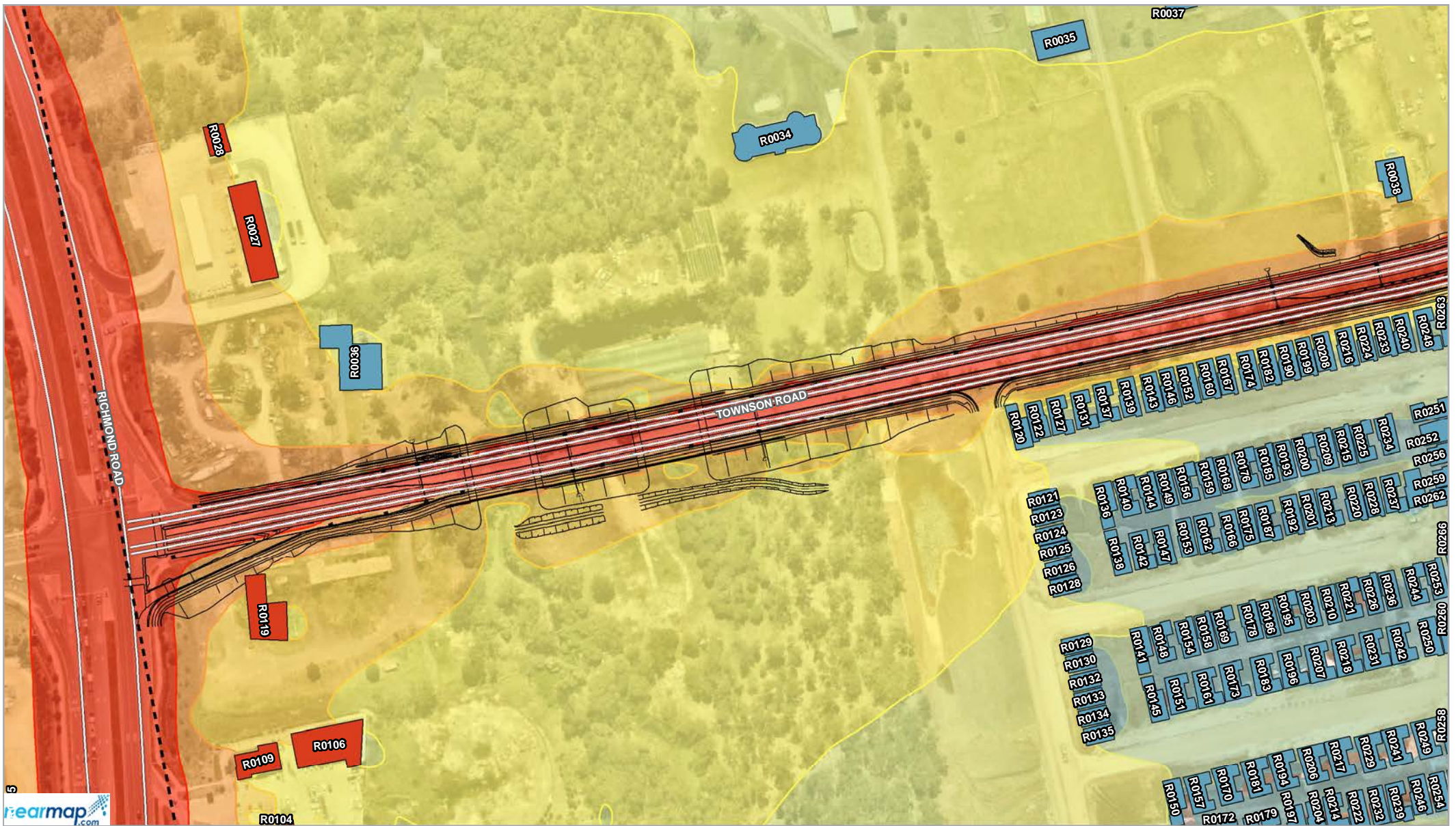


Receiver ID	Property address	X	Y	Z	Floor	Direction	Existing / Future	Usage	NCA	2016 to 2018		2019 to 2021		2022 to 2024		2025 to 2027		2028 to 2030		2031 to 2033		2034 to 2036		2037 to 2039		2040 to 2042		2043 to 2045		2046 to 2048		2049 to 2051		2052 to 2054		2055 to 2057		2058 to 2060		2061 to 2063		2064 to 2066		2067 to 2069		2070 to 2072		2073 to 2075		2076 to 2078		2079 to 2081		2082 to 2084		2085 to 2087		2088 to 2090		2091 to 2093		2094 to 2096		2097 to 2099		2100 to 2102		2103 to 2105		2106 to 2108		2109 to 2111		2112 to 2114		2115 to 2117		2118 to 2120		2121 to 2123		2124 to 2126		2127 to 2129		2130 to 2132		2133 to 2135		2136 to 2138		2139 to 2141		2142 to 2144		2145 to 2147		2148 to 2150		2151 to 2153		2154 to 2156		2157 to 2159		2160 to 2162		2163 to 2165		2166 to 2168		2169 to 2171		2172 to 2174		2175 to 2177		2178 to 2180		2181 to 2183		2184 to 2186		2187 to 2189		2190 to 2192		2193 to 2195		2196 to 2198		2199 to 2201		2202 to 2204		2205 to 2207		2208 to 2210		2211 to 2213		2214 to 2216		2217 to 2219		2220 to 2222		2223 to 2225		2226 to 2228		2229 to 2231		2232 to 2234		2235 to 2237		2238 to 2240		2241 to 2243		2244 to 2246		2247 to 2249		2250 to 2252		2253 to 2255		2256 to 2258		2259 to 2261		2262 to 2264		2265 to 2267		2268 to 2270		2271 to 2273		2274 to 2276		2277 to 2279		2280 to 2282		2283 to 2285		2286 to 2288		2289 to 2291		2292 to 2294		2295 to 2297		2298 to 2300		2301 to 2303		2304 to 2306		2307 to 2309		2310 to 2312		2313 to 2315		2316 to 2318		2319 to 2321		2322 to 2324		2325 to 2327		2328 to 2330		2331 to 2333		2334 to 2336		2337 to 2339		2340 to 2342		2343 to 2345		2346 to 2348		2349 to 2351		2352 to 2354		2355 to 2357		2358 to 2360		2361 to 2363		2364 to 2366		2367 to 2369		2370 to 2372		2373 to 2375		2376 to 2378		2379 to 2381		2382 to 2384		2385 to 2387		2388 to 2390		2391 to 2393		2394 to 2396		2397 to 2399		2400 to 2402		2403 to 2405		2406 to 2408		2409 to 2411		2412 to 2414		2415 to 2417		2418 to 2420		2421 to 2423		2424 to 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2639		2640 to 2642		2643 to 2645		2646 to 2648		2649 to 2651		2652 to 2654		2655 to 2657		2658 to 2660		2661 to 2663		2664 to 2666		2667 to 2669		2670 to 2672		2673 to 2675		2676 to 2678		2679 to 2681		2682 to 2684		2685 to 2687		2688 to 2690		2691 to 2693		2694 to 2696		2697 to 2699		2700 to 2702		2703 to 2705		2706 to 2708		2709 to 2711		2712 to 2714		2715 to 2717		2718 to 2720		2721 to 2723		2724 to 2726		2727 to 2729		2730 to 2732		2733 to 2735		2736 to 2738		2739 to 2741		2742 to 2744		2745 to 2747		2748 to 2750		2751 to 2753		2754 to 2756		2757 to 2759		2760 to 2762		2763 to 2765		2766 to 2768		2769 to 2771		2772 to 2774		2775 to 2777		2778 to 2780		2781 to 2783		2784 to 2786		2787 to 2789		2790 to 2792		2793 to 2795		2796 to 2798		2799 to 2801		2802 to 2804		2805 to 2807		2808 to 2810		2811 to 2813		2814 to 2816		2817 to 2819		2820 to 2822		2823 to 2825		2826 to 2828		2829 to 2831		2832 to 2834		2835 to 2837		2838 to 2840		2841 to 2843		2844 to 2846		2847 to 2849		2850 to 2852		2853 to 2855		2856 to 2858		2859 to 2861		2862 to 2864		2865 to 2867		2868 to 2870		2871 to 2873		2874 to 2876		2877 to 2879		2880 to 2882		2883 to 2885		2886 to 2888		2889 to 2891		2892 to 2894		2895 to 2897		2898 to 2900		2901 to 2903		2904 to 2906		2907 to 2909		2910 to 2912		2913 to 2915		2916 to 2918		2919 to 2921		2922 to 2924		2925 to 2927		2928 to 2930		2931 to 2933		2934 to 2936		2937 to 2939		2940 to 2942		2943 to 2945		2946 to 2948		2949 to 2951		2952 to 2954		2955 to 2957		2958 to 2960		2961 to 2963		2964 to 2966		2967 to 2969		2970 to 2972		2973 to 2975		2976 to 2978		2979 to 2981		2982 to 2984		2985 to 2987		2988 to 2990		2991 to 2993		2994 to 2996		2997 to 2999		3000 to 3002		3003 to 3005		3006 to 3008		3009 to 3011		3012 to 3014		3015 to 3017		3018 to 3020		3021 to 3023		3024 to 3026		3027 to 3029		3030 to 3032		3033 to 3035		3036 to 3038		3039 to 3041		3042 to 3044		3045 to 3047		3048 to 3050		3051 to 3053		3054 to 3056		3057 to 3059		3060 to 3062		3063 to 3065		3066 to 3068		3069 to 3071		3072 to 3074		3075 to 3077		3078 to 3080		3081 to 3083		3084 to 3086		3087 to 3089		3090 to 3092		3093 to 3095		3096 to 3098		3099 to 3101		3102 to 3104		3105 to 3107		3108 to 3110		3111 to 3113		3114 to 3116		3117 to 3119		3120 to 3122		3123 to 3125		3126 to 3128		3129 to 3131		3132 to 3134		3135 to 3137		3138 to 3140		3141 to 3143		3144 to 3146		3147 to 3149		3150 to 3152		3153 to 3155		3156 to 3158		3159 to 3161		3162 to 3164		3165 to 3167		3168 to 3170		3171 to 3173		3174 to 3176		3177 to 3179		3180 to 3182		3183 to 3185		3186 to 3188		3189 to 3191		3192 to 3194		3195 to 3197		3198 to 3200		3201 to 3203		3204 to 3206		3207 to 3209		3210 to 3212		3213 to 3215		3216 to 3218		3219 to 3221		3222 to 3224		3225 to 3227		3228 to 3230		3231 to 3233		3234 to 3236		3237 to 3239		3240 to 3242		3243 to 3245		3246 to 3248		3249 to 3251		3252 to 3254		3255 to 3257		3258 to 3260		3261 to 3263		3264 to 3266		3267 to 3269		3270 to 3272		3273 to 3275		3276 to 3278		3279 to 3281		3282 to 3284		3285 to 3287		3288 to 3290		3291 to 3293		3294 to 3296		3297 to 3299		3300 to 3302		3303 to 3305		3306 to 3308		3309 to 3311		3312 to 3314		3315 to 3317		3318 to 3320		3321 to 3323		3324 to 3326		3327 to 3329		3330 to 3332		3333 to 3335		3336 to 3338		3339 to 3341		3342 to 3344		3345 to 3347		3348 to 3350		3351 to 3353		3354 to 3356		3357 to 3359		3360 to 3362		3363 to 3365		3366 to 3368		3369 to 3371		3372 to 3374		3375 to 3377		3378 to 3380		3381 to 3383		3384 to 3386		3387 to 3389		3390 to 3392		3393 to 3395		3396 to 3398		3399 to 3401		3402 to 3404		3405 to 3407		3408 to 3410		3411 to 3413		3414 to 3416		3417 to 3419		3420 to 3422		3423 to 3425		3426 to 3428		3429 to 3431		3432 to 3434		3435 to 3437		3438 to 3440		3441 to 3443		3444 to 3446		3447 to 3449		3450 to 3452		3453 to 3455		3456 to 3458		3459 to 3461		3462 to 3464		3465 to 3467		3468 to 3470		3471 to 3473		3474 to 3476		3477 to 3479		3480 to 3482		3483 to 3485		3486 to 3488		3489 to 3491		3492 to 3494		3495 to 3497		3498 to 3500		3501 to 3503		3504 to 3506		3507 to 3509		3510 to 3512		3513 to 3515		3516 to 3518		3519 to 3521		3522 to 3524		3525 to 3527		3528 to 3530		3531 to 3533		3534 to 3536		3537 to 3539		3540 to 3542		3543 to 3545		3546 to 3548		3549 to 3551		3552 to 3554		3555 to 3557		3558 to 3560		3561 to 3563		3564 to 3566		3567 to 3569		3570 to 3572		3573 to 3575		3576 to 3578		3579 to 3581		3582 to 3584		3585 to 3587		3588 to 3590		3591 to 3593		3594 to 3596		3597 to 3599		3600 to 3602		3603 to 3605		3606 to 3608		3609 to 3611		3612 to 3614		3615 to 3617		3618 to 3620		3621 to 3623		3624 to 3626		3627 to 3629		3630 to 3632		3633 to 3635		3636 to 3638		3639 to 3641		3642 to 3644		3645 to 3647		3648 to 3650		3651 to 3653		3654 to 3656		3657 to 3659		3660 to 3662		3663 to 3665		3666 to 3668		3669 to 3671		3672 to 3674		3675 to 3677		3678 to 3680		3681 to 3683		3684 to 3686		3687 to 3689		3690 to 3692		3693 to 3695		3696 to 3698		3699 to 3701		3702 to 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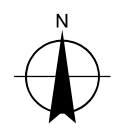
# **Appendix M** – Final design ‘Build’ Operational noise contours (Façade-corrected) – opening year and design years



**LEGEND**

- The proposal *Subject to detailed design*
- Design road strings - Final
- Operational noise study area
- Sensitive receivers
  - Commercial
  - Educational Institute
  - Industrial
  - Residential
- LAeq(15hour) operational noise contours - 2028 Build Day (façade-corrected)
  - 45
  - 50
- 55
- 60
- 65
- 70
- 75

Paper Size ISO A4  
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 Metres  
 Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 56

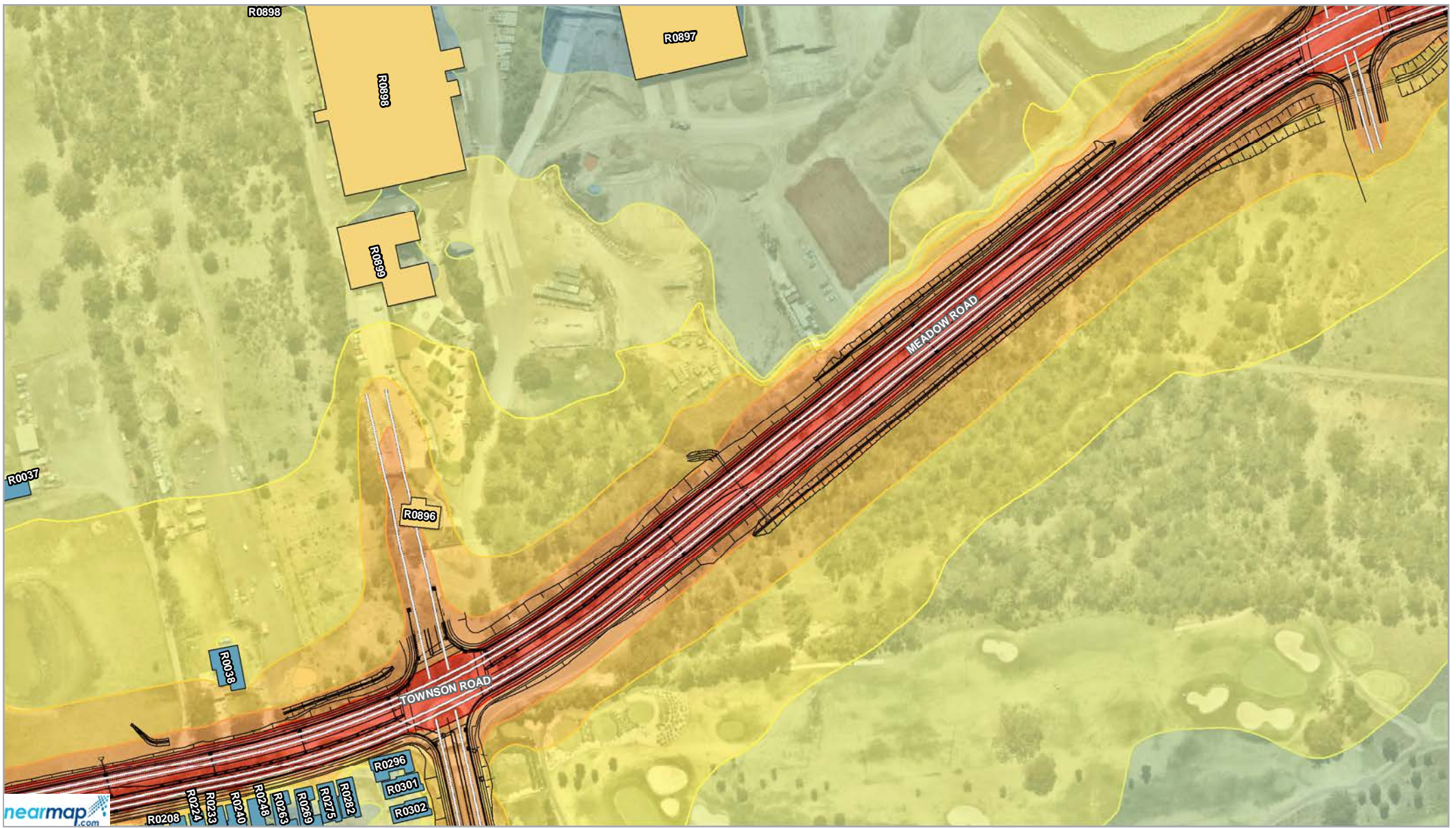


Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 LAeq(15hour) operational  
 noise contours - 2028 Build Day  
 (façade-corrected) - final design - 1/3

Project No. 12511195.0  
 Revision No. -  
 Date 11 Nov 2020

**Appendix M1**

G:\21112511195\GIS\Maps\Deliverables\NoiseVibration\Stage1NoiseAssessment\12511195\_2002\_Stage1NoiseAssessment\_detailed\_SMA.mxd  
 Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 ©. Created by: elbertson  
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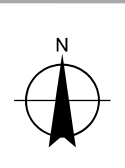
**LEGEND**

- The proposal *Subject to detailed design*
- Design road strings - Final
- ▭ Operational noise study area
- Sensitive receivers
  - Commercial
  - Educational Institute
  - Industrial
  - Residential
- L<sub>Aeq</sub>(15hour) operational noise contours - 2028 Build Day (façade-corrected)
  - 45
  - 50
  - 55
  - 60
  - 65
  - 70
  - 75

Paper Size ISO A4

Metres

Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56

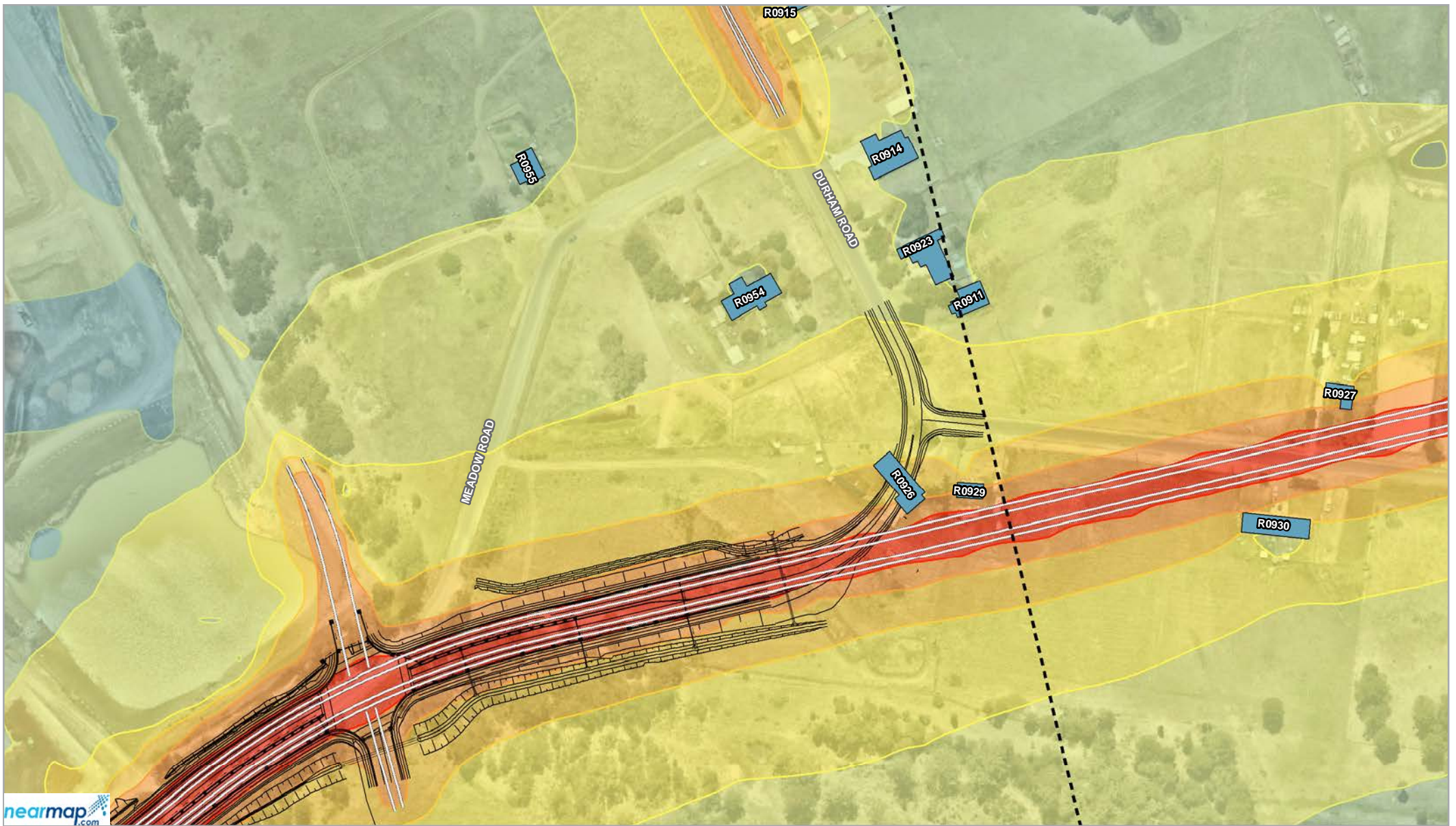


Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>Aeq</sub>(15hour) operational  
noise contours - 2028 Build Day  
(façade-corrected) - final design - 2/3

Project No. 12511195.0  
Revision No. -  
Date 11 Nov 2020

**Appendix M1**

G:\12511195\GIS\Maps\Deliverables\NoiseVibration\Stage1NoiseAssessment\12511195\_2002\_Stage1NoiseAssessment\_detailed\_SMA.mxd  
Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 (). Created by: elbertson  
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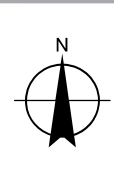
**LEGEND**

- The proposal *Subject to detailed design*
- Design road strings - Final
- - - Operational noise study area
- Sensitive receivers
  - Commercial
  - Educational Institute
  - Industrial
  - Residential
- L<sub>A</sub>eq(15hour) operational noise contours - 2028 Build Day (façade-corrected)
  - 45
  - 50
  - 55
  - 60
  - 65
  - 70
  - 75

Paper Size ISO A4

0 25 50  
Metres

Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>A</sub>eq(15hour) operational  
noise contours - 2028 Build Day  
(façade-corrected) - final design - 3/3

Project No. 12511195.0  
Revision No. -  
Date 11 Nov 2020

**Appendix M1**







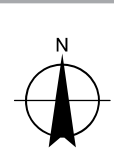
**LEGEND**

The proposal <i>Subject to detailed design</i>	Sensitive receivers	50	75
Design road strings - Final	Commercial	55	
Operational noise study area	Educational Institute	60	
	Industrial	65	
	Residential	40	
		45	
		50	
		55	
		60	
		65	
		40	
		45	

Paper Size ISO A4

Metres

Map Projection: Transverse Mercator  
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Grid: GDA 1994 MGA Zone 56

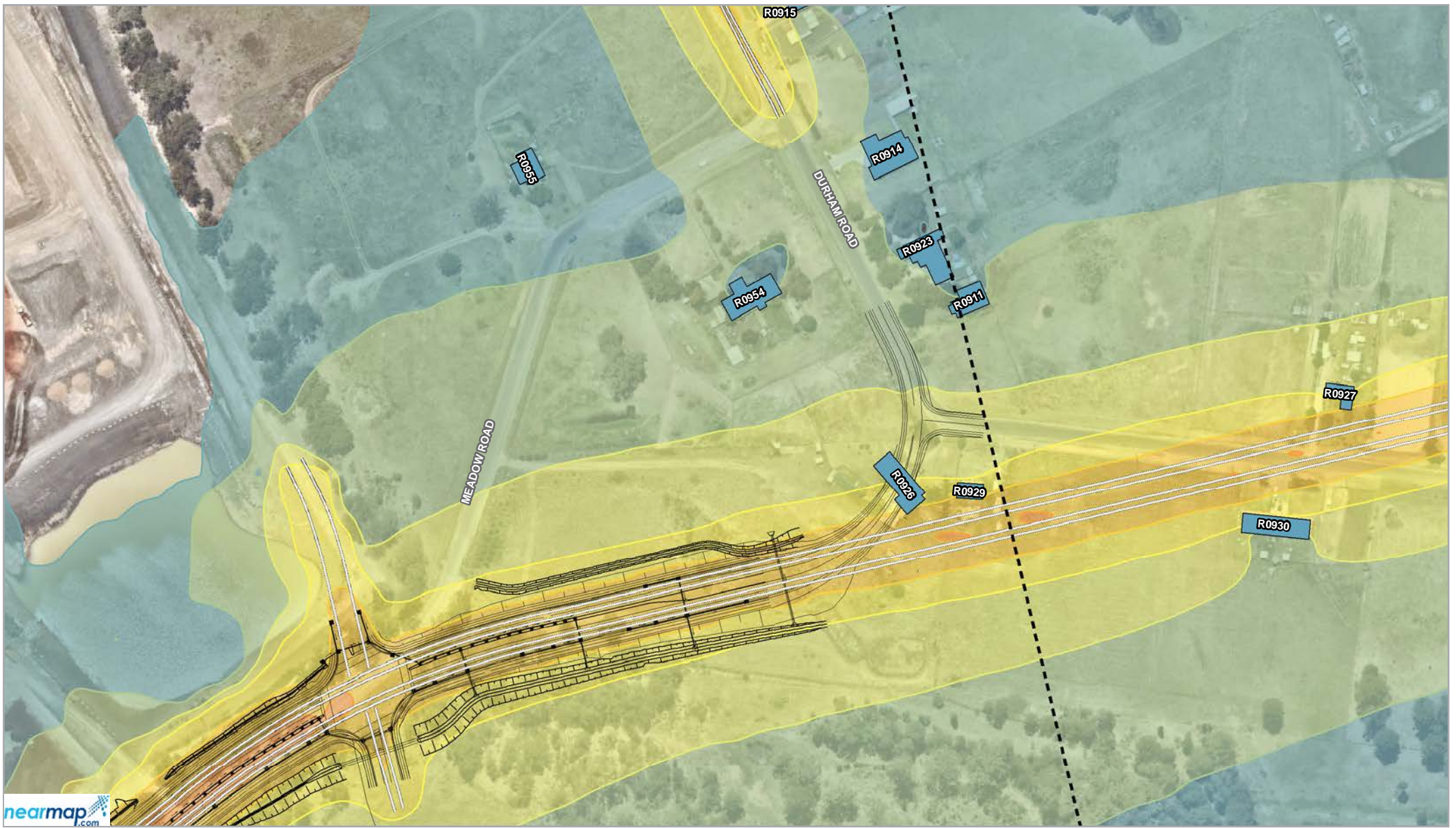


Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
LAeq(9hour) operational  
noise contours - 2028 Build Night  
(façade-corrected) - final design - 2/3

Project No. 12511195.0  
Revision No. -  
Date 11 Nov 2020

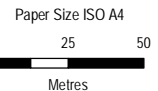
**Appendix M2**

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Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 (). Created by: elbertson  
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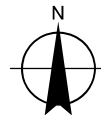


**LEGEND**

The proposal <i>Subject to detailed design</i>	<b>Sensitive receivers</b>	<b>L<sub>Aeq</sub>(9hour) operational noise contours - 2028 Build Night (façade-corrected)</b>	50	75
Design road strings - Final	Commercial	40	55	
Operational noise study area	Educational Institute	45	60	
	Industrial		65	
	Residential		70	



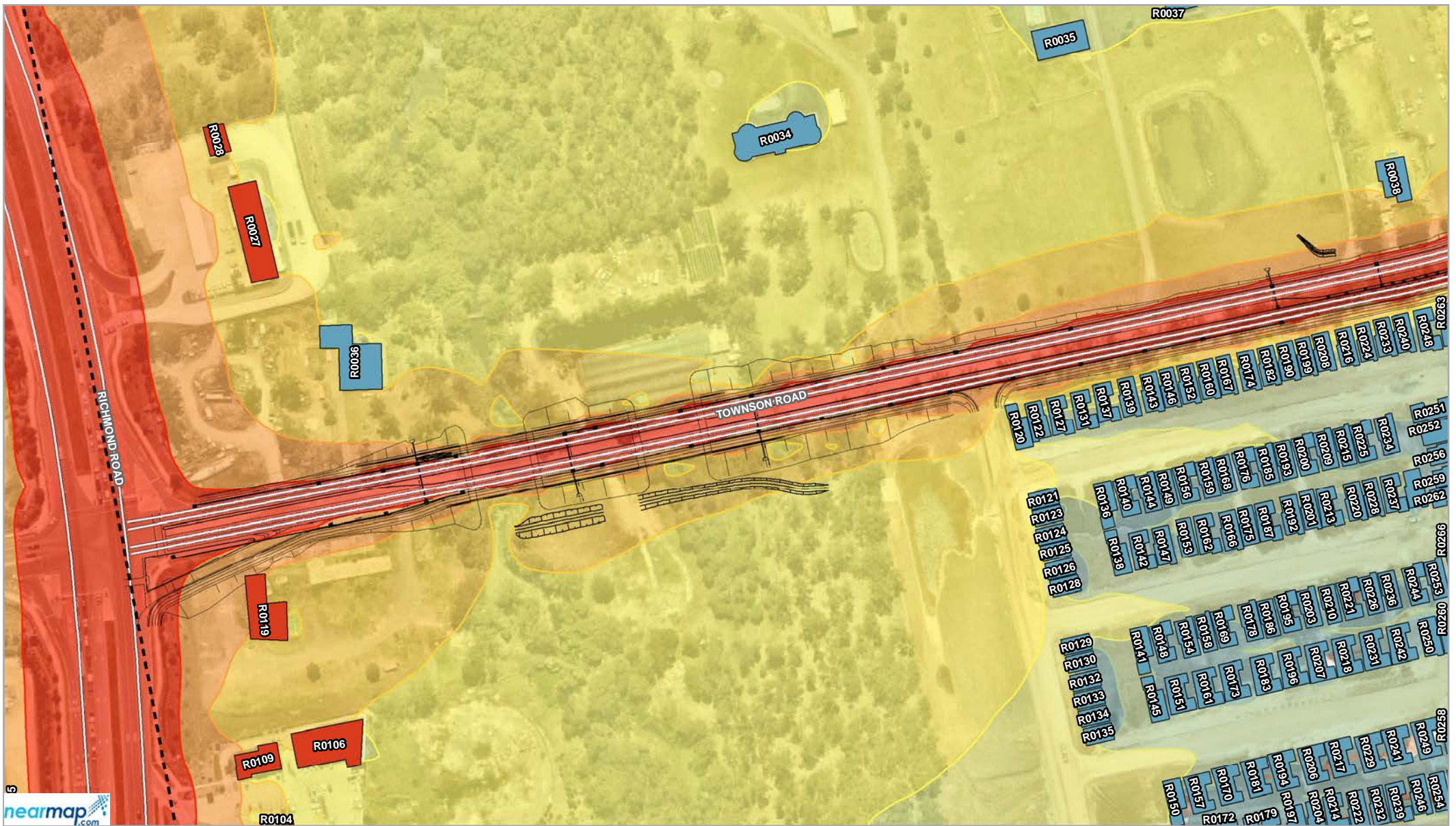
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Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>Aeq</sub>(9hour) operational  
noise contours - 2028 Build Night  
(façade-corrected) - final design - 3/3

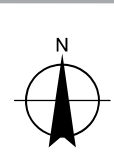
Project No. 12511195.0  
Revision No. -  
Date 11 Nov 2020

**Appendix M2**



LEGEND	
	The proposal <i>Subject to detailed design</i>
	Design road strings - Final
	Operational noise study area
	Commercial
	Educational Institute
	Industrial
	Residential
	LAeq(9hour) operational noise contours - 2038 Build Day (façade-corrected)
	40
	45
	50
	55
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	65
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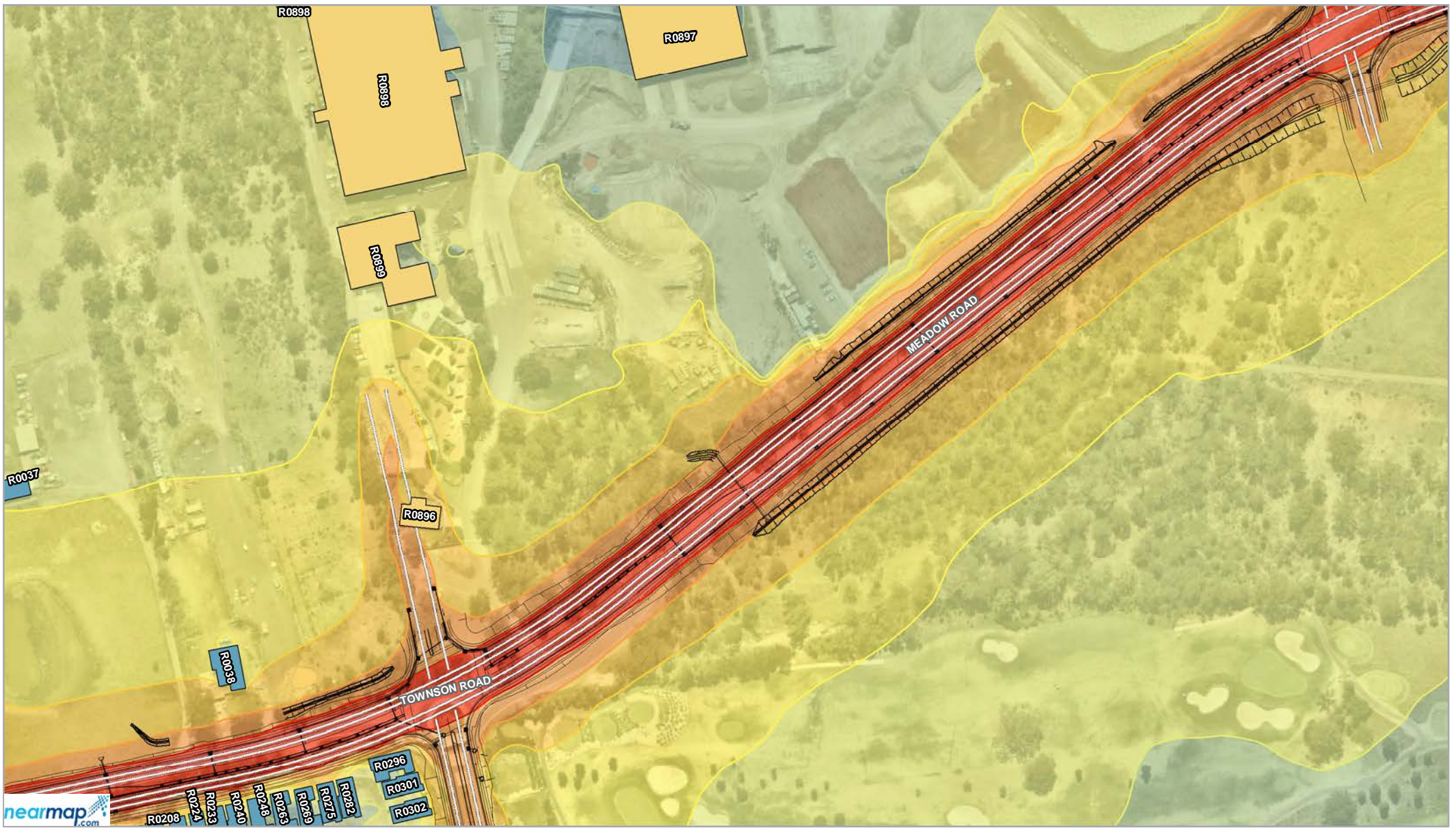
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Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 LAeq(15hour) operational  
 noise contours - 2038 Build Day  
 (façade-corrected) - final design - 1/3

Project No. 12511195.0  
 Revision No. -  
 Date 08 Feb 2021

### Appendix M3



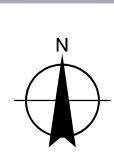
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The proposal <i>Subject to detailed design</i>	Sensitive receivers	LAeq(9hour) operational noise contours - 2038 Build Day (façade-corrected)	50	75
Design road strings - Final	Commercial	40	55	
Operational noise study area	Educational Institute	45	60	
	Industrial		65	
	Residential		70	

Paper Size ISO A4

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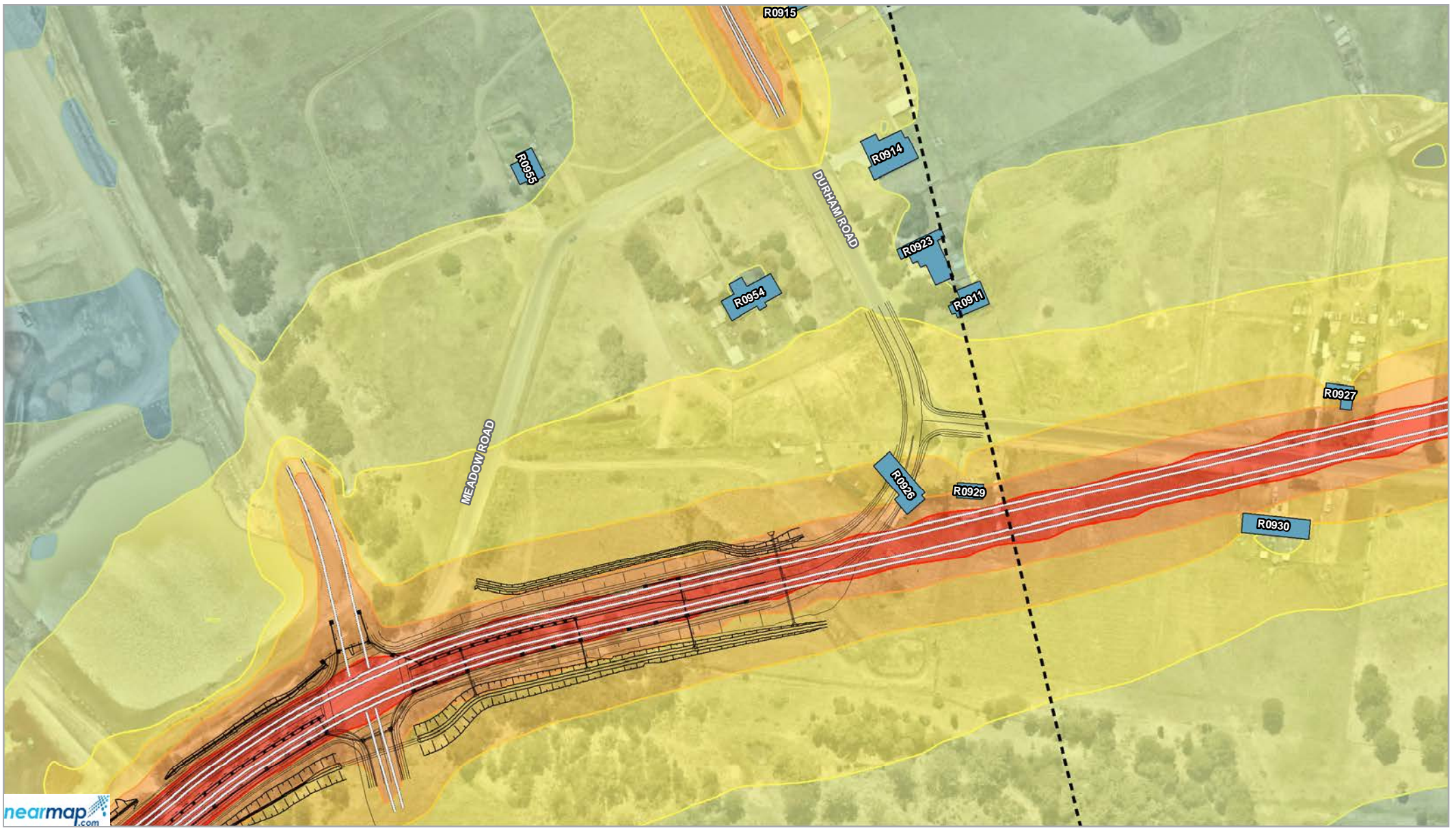


Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
LAeq(15hour) operational  
noise contours - 2038 Build Day  
(façade-corrected) - final design - 2/3

Project No. 12511195.0  
Revision No. -  
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**Appendix M3**

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Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2021 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2021 (0). Created by: elbertson  
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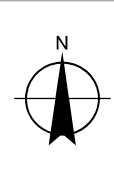
**LEGEND**

The proposal <i>Subject to detailed design</i>	Sensitive receivers	L <sub>Aeq</sub> (9hour) operational noise contours - 2038 Build Day (façade-corrected)	50	75
Design road strings - Final	Commercial	55		
Operational noise study area	Educational Institute	60		
	Industrial	65		
	Residential	40		
		45		

Paper Size ISO A4

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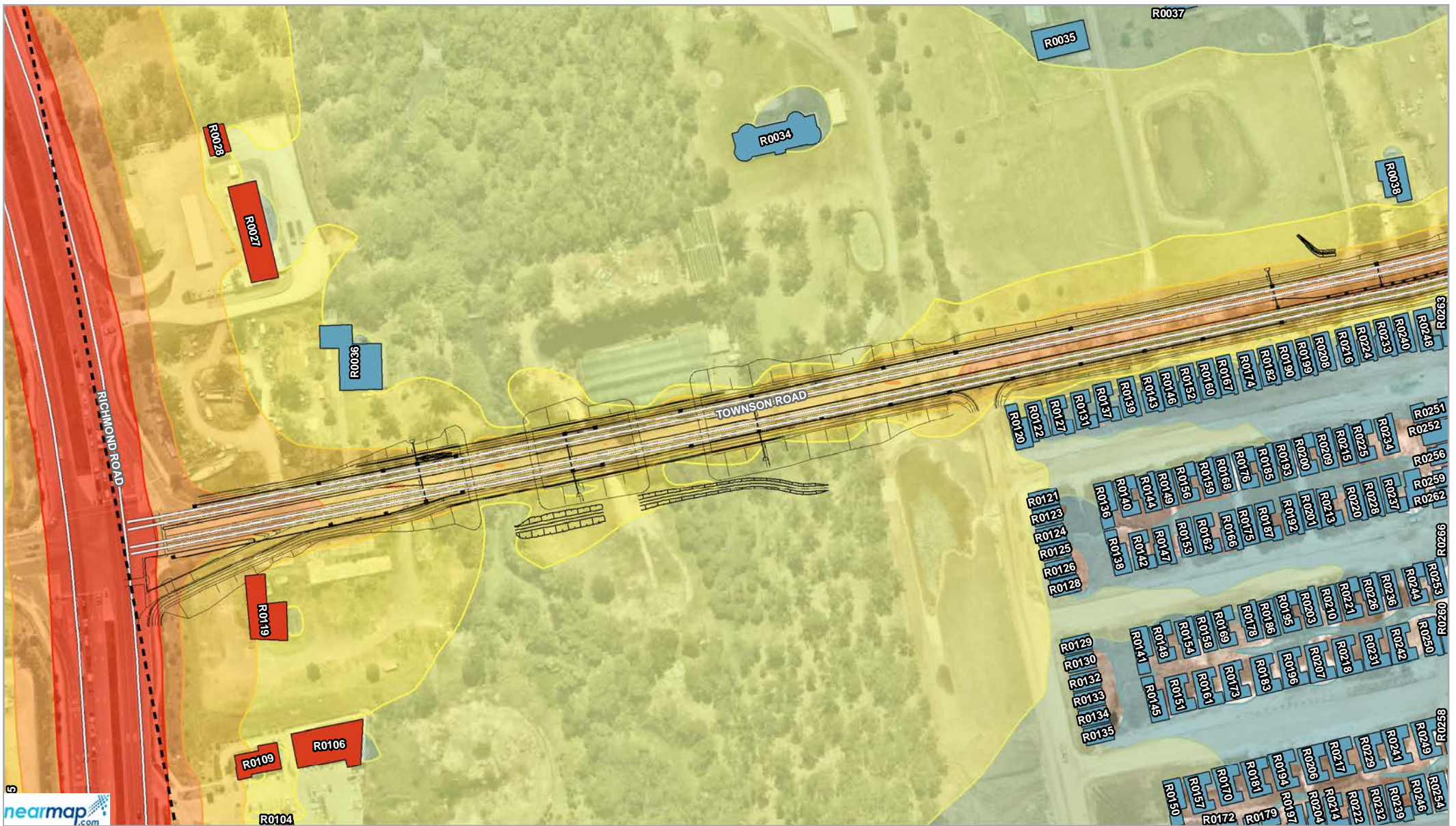
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Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>Aeq</sub>(15hour) operational  
noise contours - 2038 Build Day  
(façade-corrected) - final design - 3/3

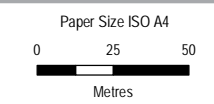
Project No. 12511195.0  
Revision No. -  
Date 08 Feb 2021

**Appendix M3**

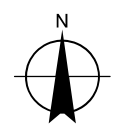


**LEGEND**

The proposal <i>Subject to detailed design</i>	Sensitive receivers Commercial	LAeq(9hour) operational noise contours - 2038 Build Night (façade-corrected) 50	75
Design road strings - Final	Educational Institute	55	
Operational noise study area	Industrial	60	
	Residential	65	
		40	
		45	
		70	



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
LAeq(9hour) operational  
noise contours - 2038 Build Night  
(façade-corrected) - final design - 1/3

Project No. 12511195.0  
Revision No. -  
Date 08 Feb 2021

**Appendix M4**



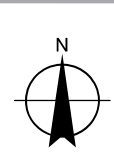
**LEGEND**

The proposal <i>Subject to detailed design</i>	Sensitive receivers	LAeq(9hour) operational noise contours - 2038 Build Night (façade-corrected) 50	75
Design road strings - Final	Commercial	55	
Operational noise study area	Educational Institute	60	
	Industrial	65	
	Residential	40	
		45	

Paper Size ISO A4

Metres

Map Projection: Transverse Mercator  
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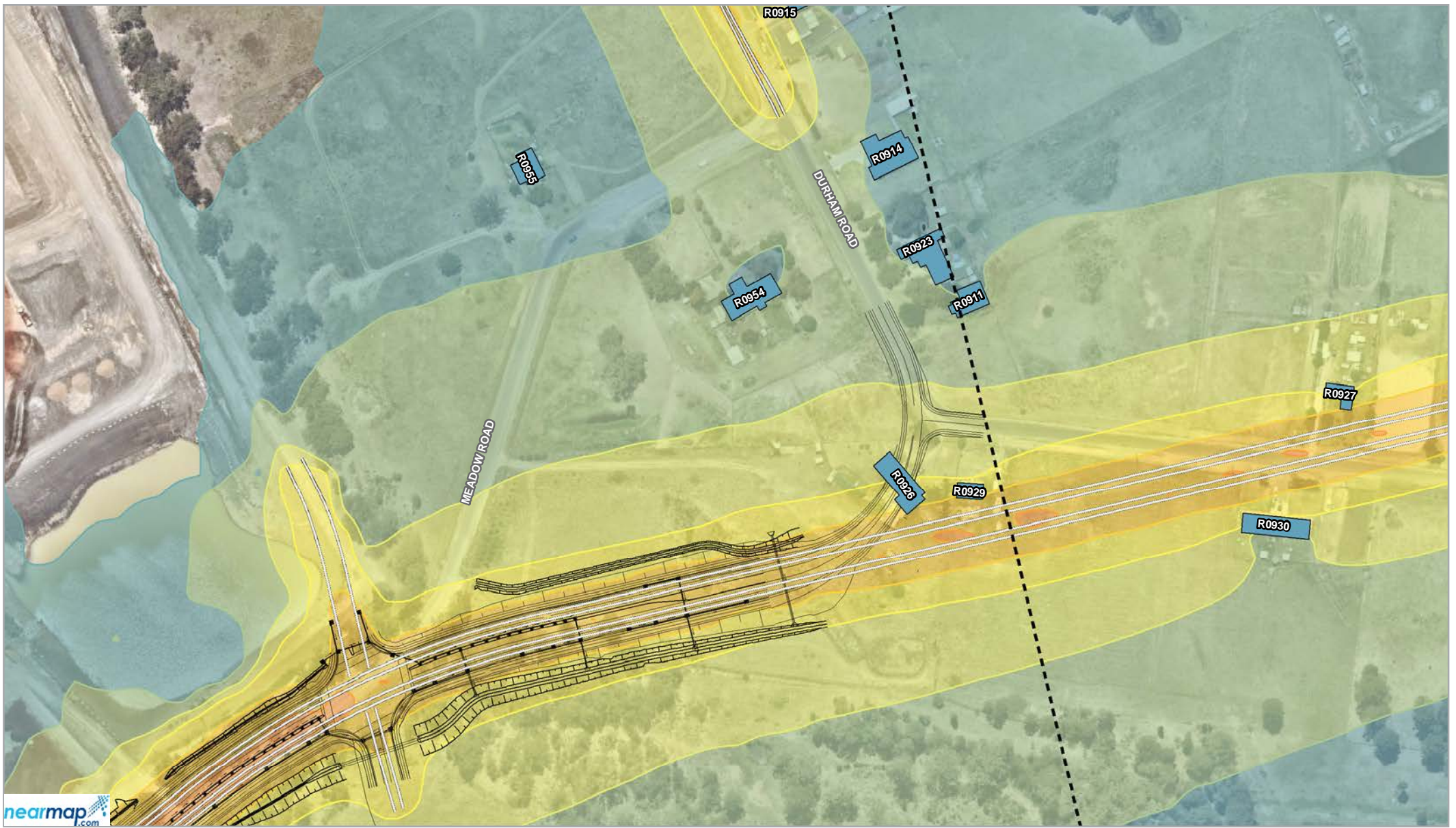


Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
LAeq(9hour) operational  
noise contours - 2038 Build Night  
(façade-corrected) - final design - 2/3

Project No. 12511195.0  
Revision No. -  
Date 08 Feb 2021

**Appendix M4**





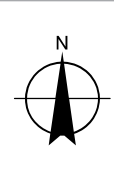
**LEGEND**

The proposal <i>Subject to detailed design</i>	<b>Sensitive receivers</b>	<b>L<sub>Aeq</sub>(9hour) operational noise contours - 2038 Build Night (façade-corrected)</b>	50	75
Design road strings - Final	Commercial	40	55	
Operational noise study area	Educational Institute	45	60	
	Industrial		65	
	Residential		70	

Paper Size ISO A4

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Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



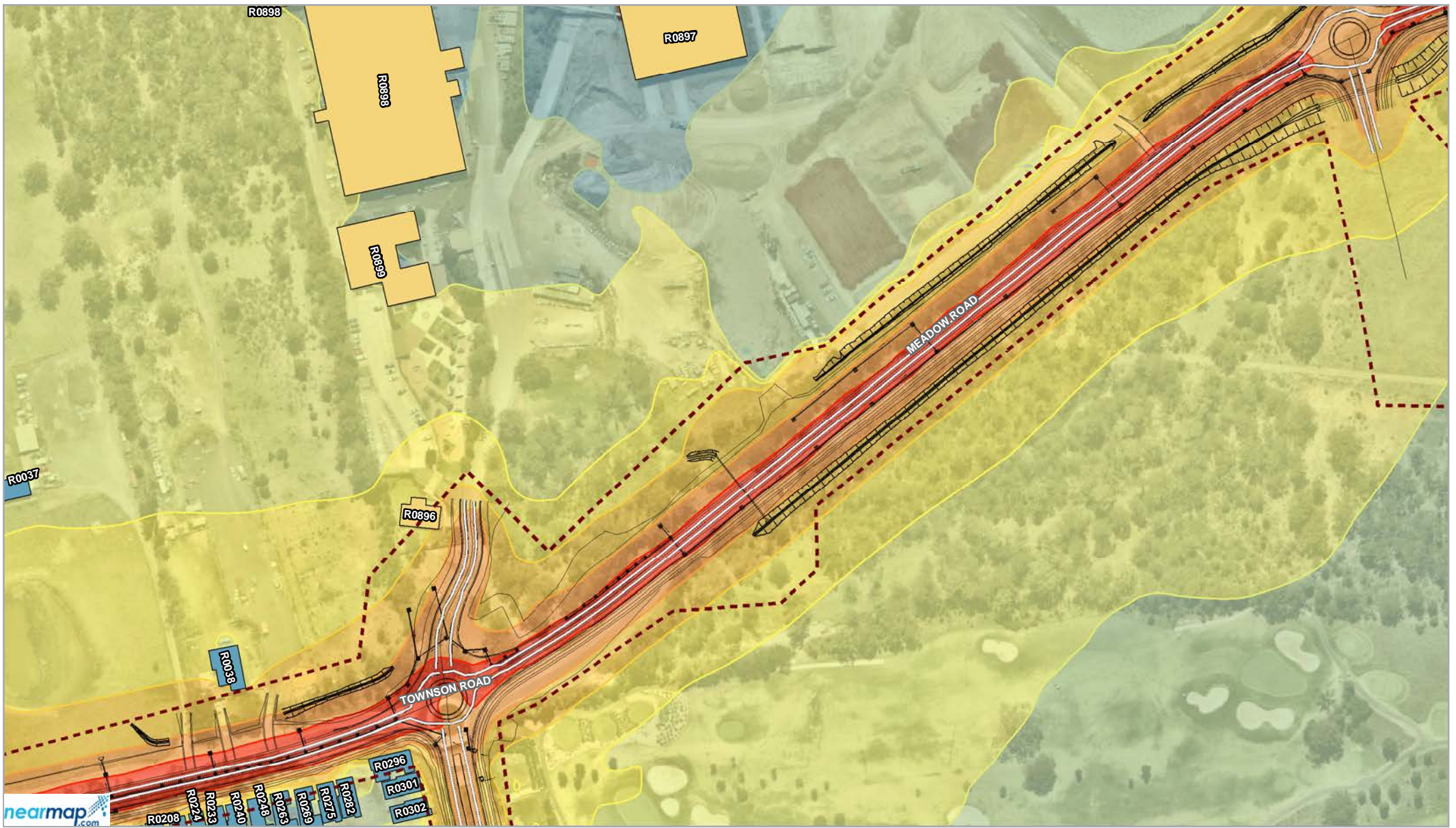
Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>Aeq</sub>(9hour) operational  
noise contours - 2038 Build Night  
(façade-corrected) - final design - 3/3

Project No. 12511195.0  
Revision No. -  
Date 08 Feb 2021

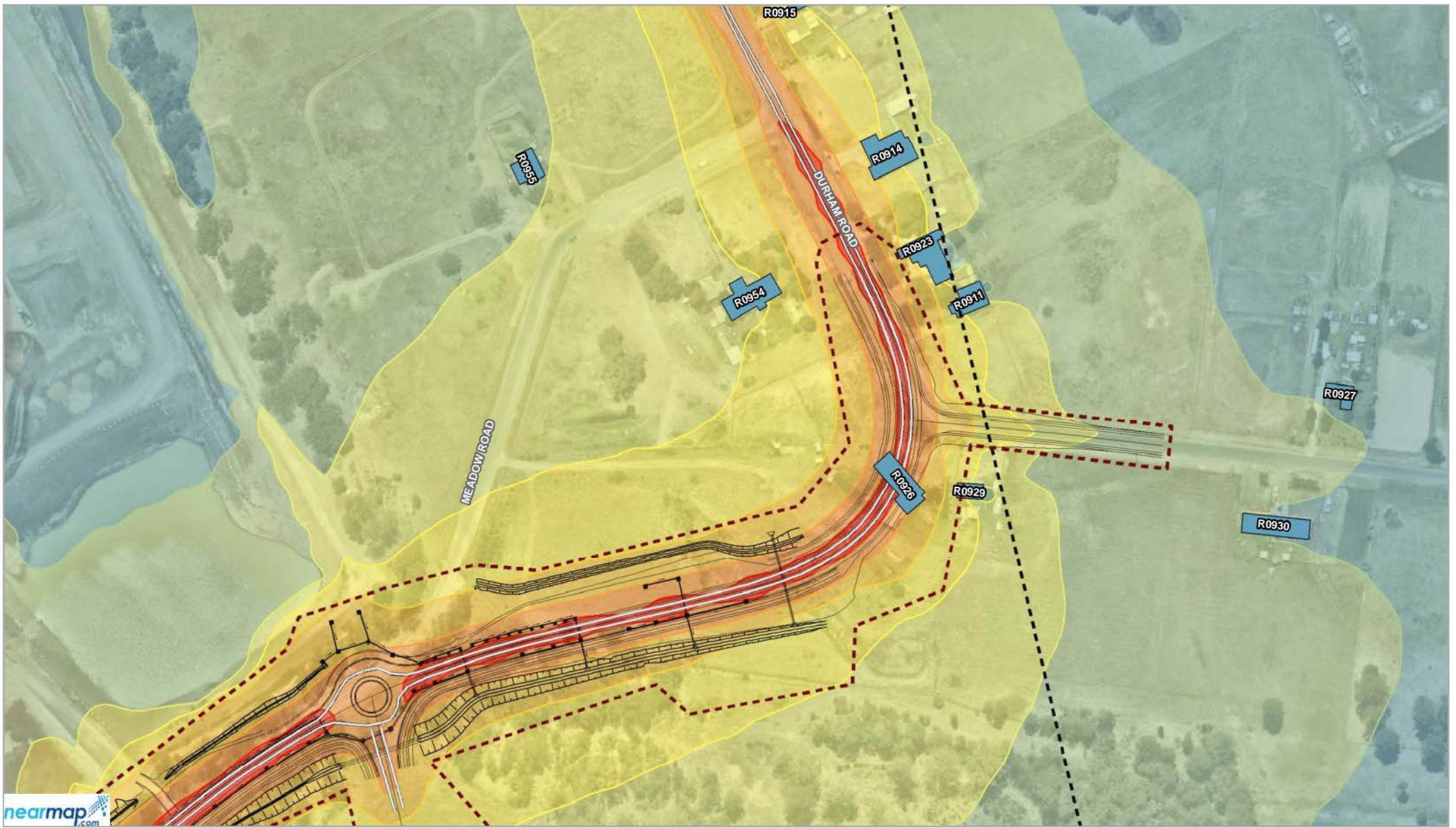
**Appendix M4**

# **Appendix N** – Interim design ‘Build’ Operational noise contours (Façade-corrected) – opening year and design years





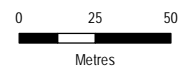
<b>LEGEND</b> The proposal <i>Subject to detailed design</i> Design road strings - Interim Operational noise study area Sensitive receivers Commercial		Educational Institute Industrial Residential		<b>LAeq(15hour) operational noise contours - 2023 Build Day (façade-corrected)</b> 45 50 55		60 65 70 75 Construction footprint		Paper Size ISO A4  Metres Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 56		 		Transport for NSW Townson Road Upgrade Stage 1 Between Richmond Road and Jersey Road Noise and Vibration Impact Assessment LAeq(15hour) operational noise contours - 2023 Build Day (façade-corrected) - interim design - 2/3		Project No. 12511195.0 Revision No. - Date 12 Nov 2020		<b>Appendix N1</b>	
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**LEGEND**

- The proposal *Subject to detailed design*
- Design road strings - Interim
- Operational noise study area
- Sensitive receivers
- Commercial
- Educational Institute
- Industrial
- Residential
- L<sub>Aeq</sub>(15hour) operational noise contours - 2023 Build Day (façade-corrected) 45
- 50
- 55
- 60
- 65
- 70
- 75
- Construction footprint

Paper Size ISO A4



Map Projection: Transverse Mercator  
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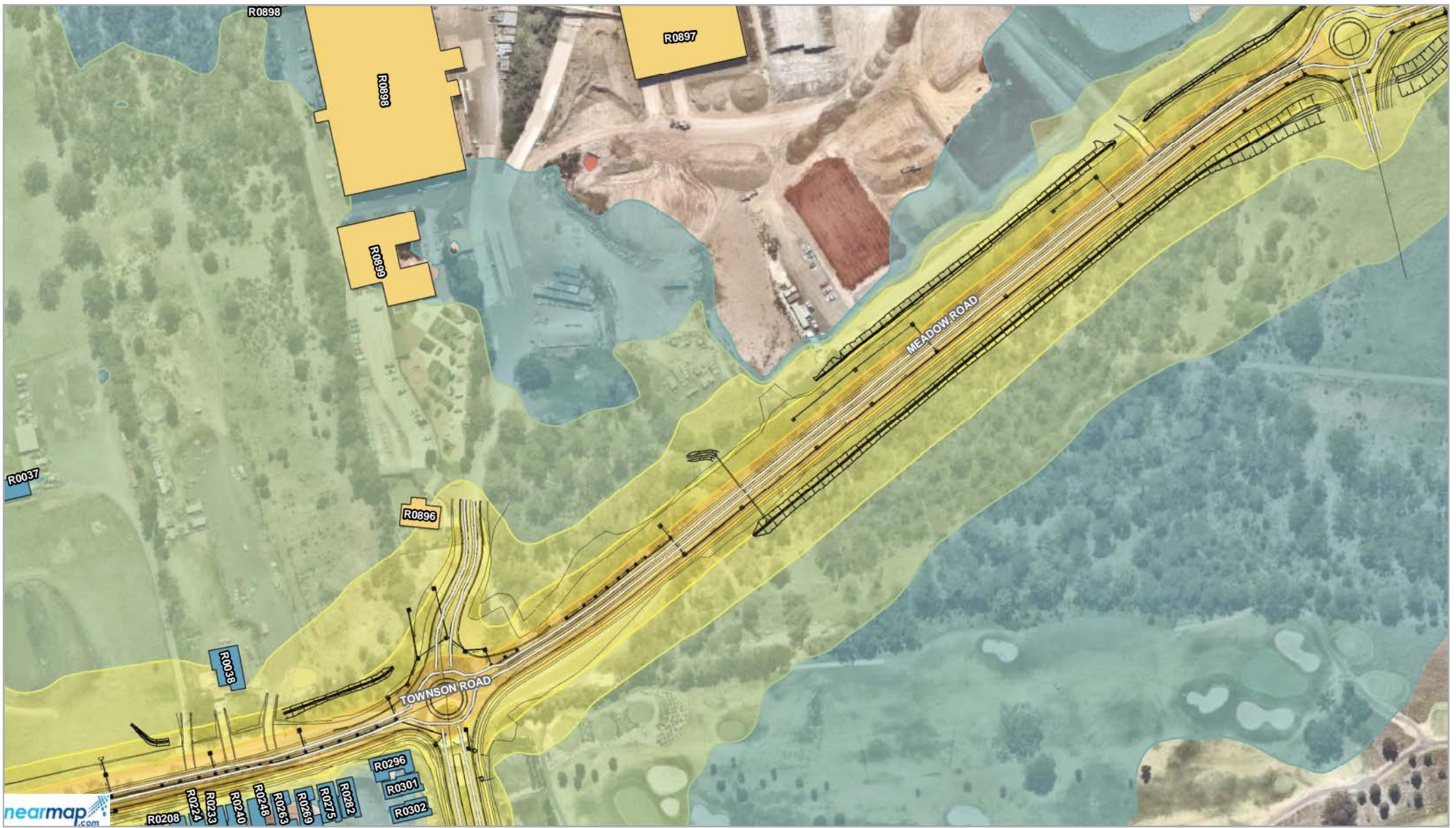


Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>Aeq</sub>(15hour) operational  
noise contours - 2023 Build Day  
(façade-corrected) - interim design - 3/3

Project No. 12511195.0  
Revision No. -  
Date 12 Nov 2020

**Appendix N1**

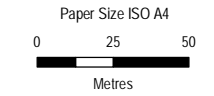




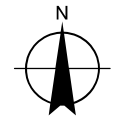
**LEGEND**

The proposal <i>Subject to detailed design</i>	Sensitive receivers	50	75
Design road strings - Interim	Commercial	55	
Operational noise study area	Educational Institute	60	
	Industrial	65	
	Residential	70	
		40	
		45	

L<sub>Aeq</sub>(9hour) operational noise contours - 2023 Build Night (façade-corrected)



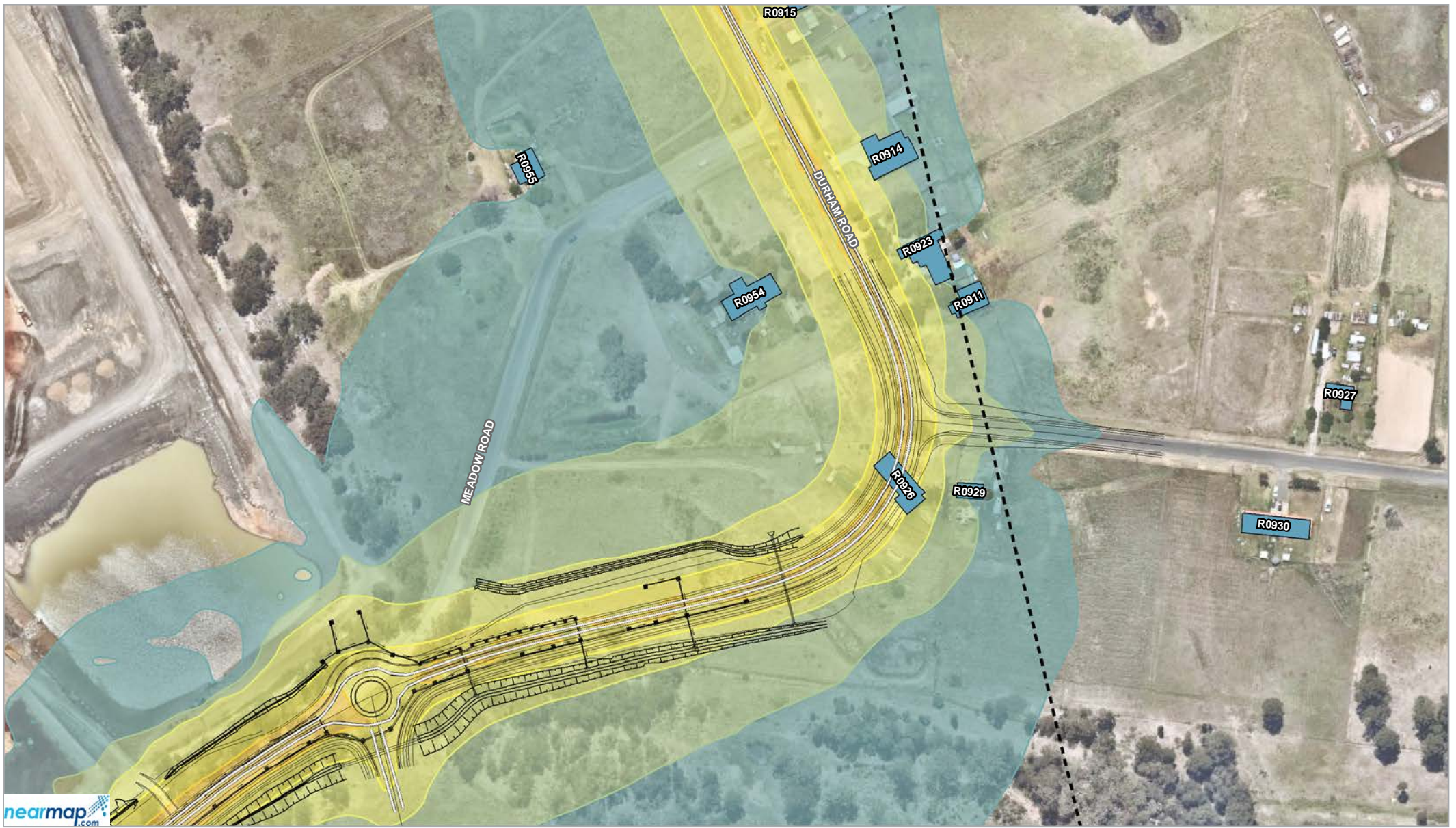
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Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 56



Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>Aeq</sub>(9hour) operational  
noise contours - 2023 BuildNight  
(façade-corrected) - interim design - 2/3

Project No. 12511195.0  
Revision No. -  
Date 12 Nov 2020

**Appendix N2**



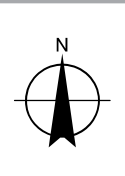
**LEGEND**

The proposal <i>Subject to detailed design</i>	<b>Sensitive receivers</b>	<b>L<sub>Aeq</sub>(9hour) operational noise contours - 2023 Build Night (façade-corrected)</b>	50	75
Design road strings - Interim	Commercial	40	55	
Operational noise study area	Educational Institute	45	60	
	Industrial		65	
	Residential		70	

Paper Size ISO A4

Metres

Map Projection: Transverse Mercator  
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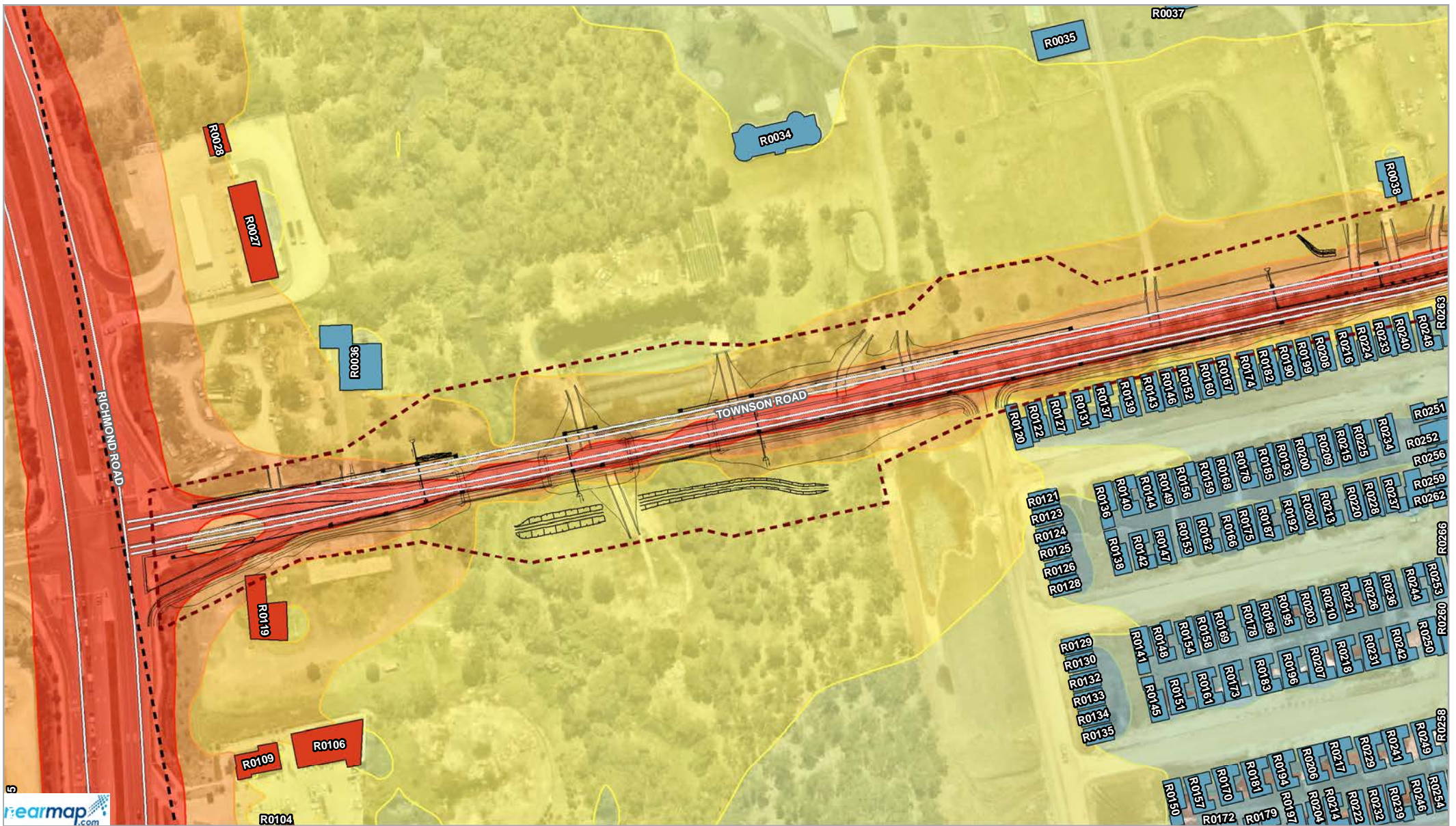
Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
L<sub>Aeq</sub>(9hour) operational  
noise contours - 2023 Build Day  
(façade-corrected) - interim design - 3/3

Project No. 12511195.0  
Revision No. -  
Date 12 Nov 2020

**Appendix N2**

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Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 (0). Created by: elbertson  
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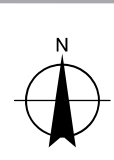




**LEGEND**

The proposal <i>Subject to detailed design</i>	Educational Institute	LAeq(15hour) operational noise contours - 2023 Build Day (façade-corrected)
Design road strings - Final	Industrial	45
Operational noise study area	Residential	50
Sensitive receivers		55
Commercial		60
		65
		70
		75
		Construction footprint

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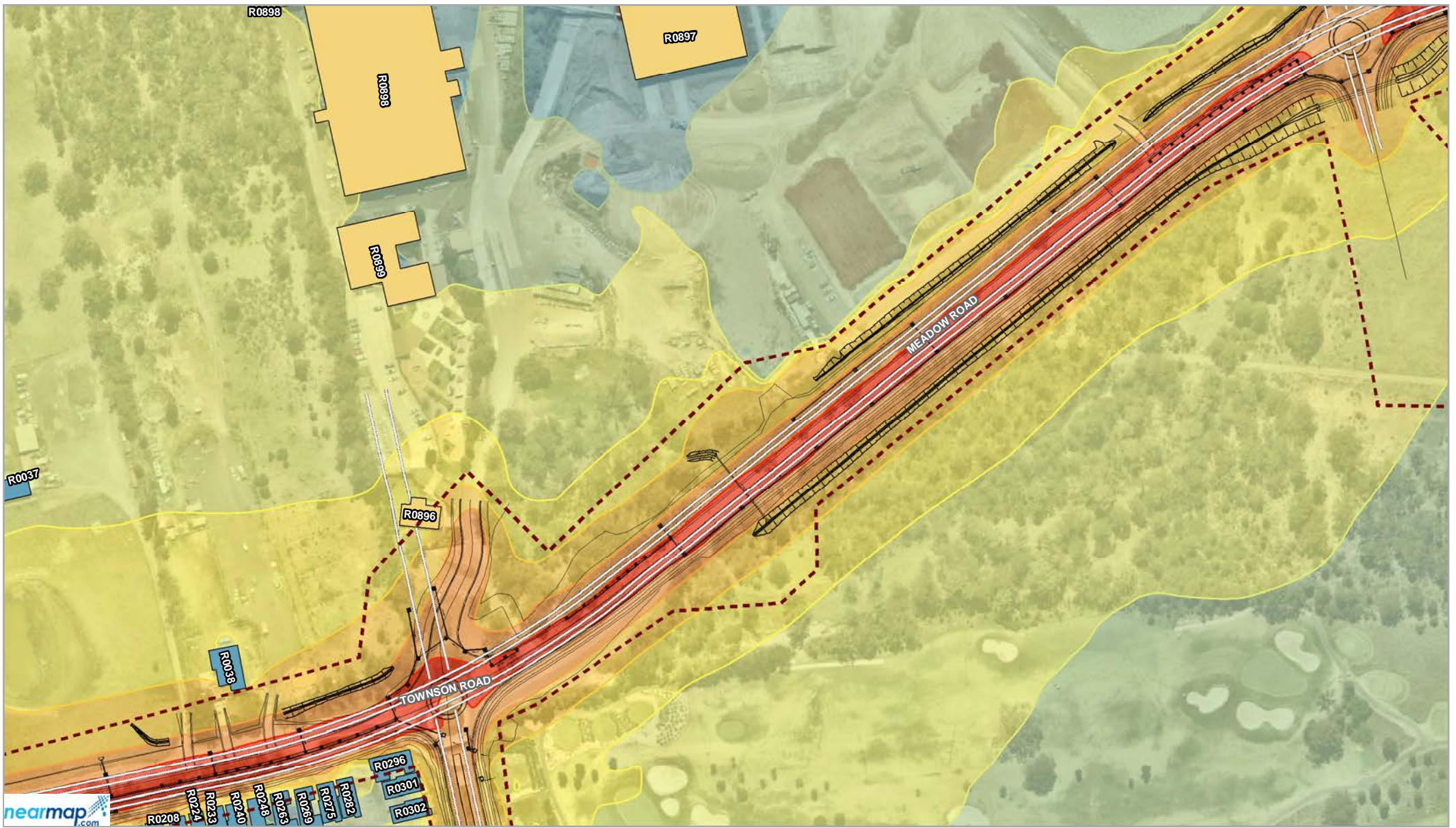


Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
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 Noise and Vibration Impact Assessment  
 LAeq(15hour) operational  
 noise contours - 2028 Build Day  
 (façade-corrected) - interim design - 1/3

Project No. 12511195.0  
 Revision No. -  
 Date 11 Nov 2020

## Appendix N3

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 Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 ©. Created by: elbertson  
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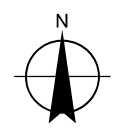


**LEGEND**

- The proposal *Subject to detailed design*
- Design road strings - Final
- Operational noise study area
- Sensitive receivers
- Commercial
- Educational Institute
- Industrial
- Residential
- LAeq(15hour) operational noise contours - 2023 Build Day (façade-corrected) 45
- 50
- 55

- 60
- 65
- 70
- 75
- Construction footprint

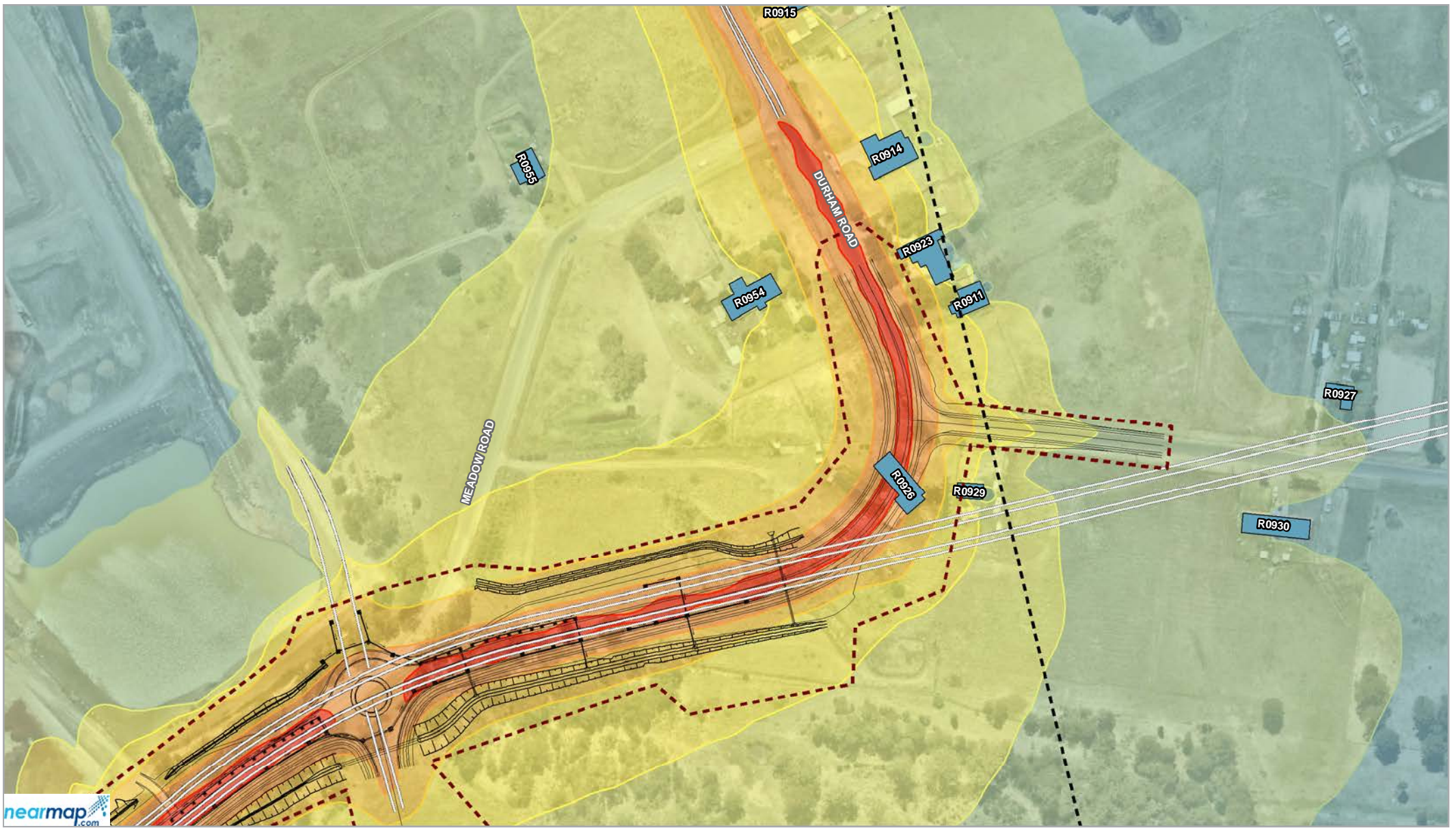
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Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 LAeq(15hour) operational  
 noise contours - 2028 Build Day  
 (façade-corrected) - interim design - 2/3

Project No. 12511195.0  
 Revision No. -  
 Date 11 Nov 2020

**Appendix N3**



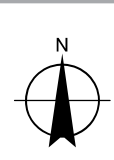
**LEGEND**

- The proposal *Subject to detailed design*
- Design road strings - Final
- Operational noise study area
- Sensitive receivers
- Commercial
- Educational Institute
- Industrial
- Residential
- LAeq(15hour) operational noise contours - 2023 Build Day (façade-corrected) 45
- 50
- 55
- 60
- 65
- 70
- 75
- Construction footprint

Paper Size ISO A4

Metres

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Grid: GDA 1994 MGA Zone 56

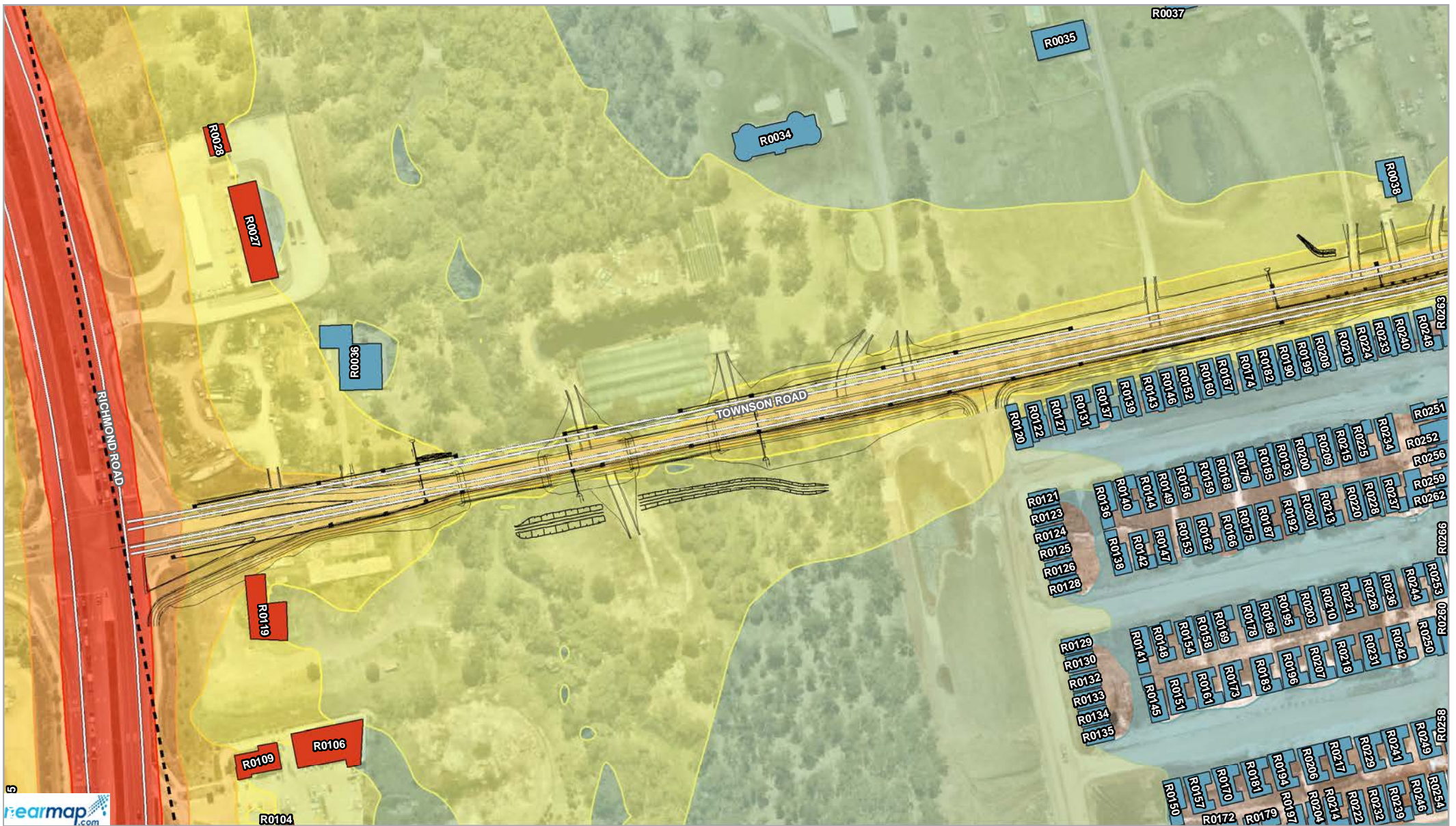


Transport for NSW  
Townson Road Upgrade Stage 1 Between  
Richmond Road and Jersey Road  
Noise and Vibration Impact Assessment  
LAeq(15hour) operational  
noise contours - 2028 Build Day  
(façade-corrected) - interim design - 3/3

Project No. 12511195.0  
Revision No. -  
Date 11 Nov 2020

**Appendix N3**

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Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 (); Created by: elbertson  
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<b>LEGEND</b> The proposal <i>Subject to detailed design</i> Design road strings - Final Operational noise study area		<b>Sensitive receivers</b> Commercial Educational Institute Industrial Residential	<b>L<sub>Aeq</sub>(9hour) operational noise contours - 2023 Build Night (façade-corrected)</b> 40 45 50 55 60 65 70 75	Paper Size ISO A4  Metres Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 56			Transport for NSW Townson Road Upgrade Stage 1 Between Richmond Road and Jersey Road Noise and Vibration Impact Assessment L <sub>Aeq</sub> (9hour) operational noise contours - 2028 Build Night (façade-corrected) - interim design - 1/3	Project No. 12511195.0 Revision No. - Date 11 Nov 2020
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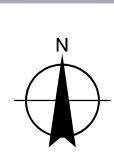
## Appendix N4



**LEGEND**

The proposal <i>Subject to detailed design</i>	Sensitive receivers	50	75
Design road strings - Final	Commercial	55	
Operational noise study area	Educational Institute	60	
	Industrial	65	
	Residential	70	
		40	
		45	

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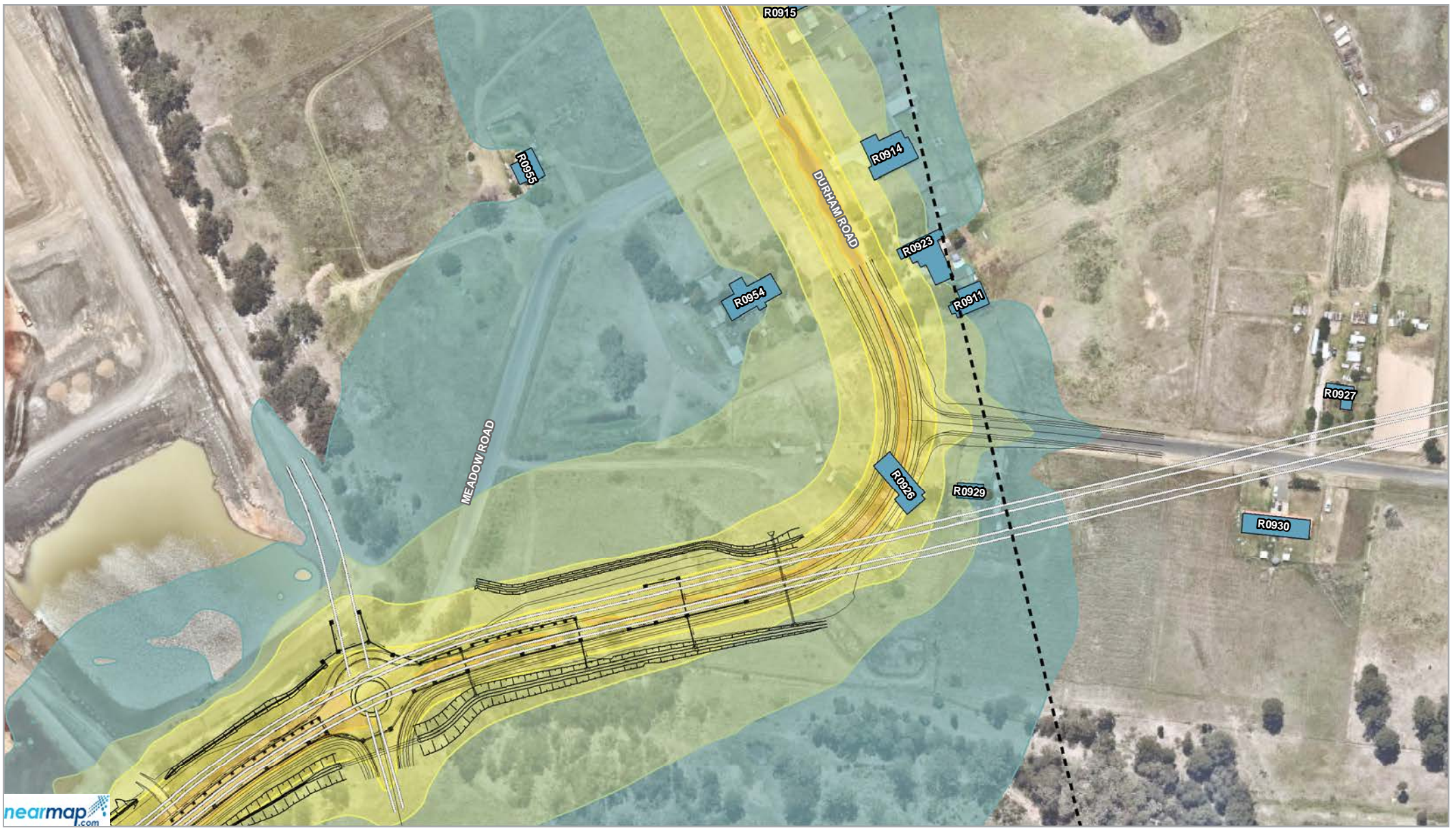


Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 LAeq(9hour) operational  
 noise contours - 2028 Build Night  
 (façade-corrected) - interim design - 2/3

Project No. 12511195.0  
 Revision No. -  
 Date 11 Nov 2020

**Appendix N4**

G:\12511195\GIS\Maps\Deliverables\NoiseVibration\Stage1NoiseAssessment\12511195\_2002\_Stage1NoiseAssessment\_detailed\_SMA.mxd  
 Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 (). Created by: elbertson  
 © 2020. Whilst every care has been taken to prepare this map, GHD (and Sixmaps 2020, NSW Department of Lands, OEH, NSW Department of Planning and Environment, Nearmap) make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.

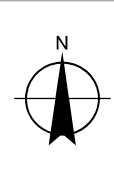


**LEGEND**

The proposal <i>Subject to detailed design</i>	Sensitive receivers	50	75
Design road strings - Final	Commercial	55	
Operational noise study area	Educational Institute	60	
	Industrial	65	
	Residential	40	
		45	

Paper Size ISO A4  
 0 25 50  
 Metres

Map Projection: Transverse Mercator  
 Horizontal Datum: GDA 1994  
 Grid: GDA 1994 MGA Zone 56



Transport for NSW  
 Townson Road Upgrade Stage 1 Between  
 Richmond Road and Jersey Road  
 Noise and Vibration Impact Assessment  
 LAeq(9hour) operational  
 noise contours - 2028 Build Night  
 (façade-corrected) - interim design -3/3

Project No. 12511195.0  
 Revision No. -  
 Date 11 Nov 2020

**Appendix N4**

G:\21112511195\GIS\Maps\Deliverables\NoiseVibration\Stage1NoiseAssessment\12511195\_Z002\_Stage1NoiseAssessment\_detailed\_SMA.mxd  
 Data source: General Topo - NSW LPI DTDB 2015; Cadastre - NSW LPI DCDB 2019; Key fish habitat, ENV, biocertification, threatened flora/fauna - OEH Aerial Imagery - Nearmap 2020 (image date 22/01/2020, image extracted 03/02/2020) & Sixmaps 2020 (). Created by: elbertson  
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## **Appendix O** – List of residences qualifying for architectural treatments

Receivers qualifying for mitigation - interim scenarios

RID	Address	X	Y	Z	Floor	Direction	Usage	NCA	2032 Build Day	2032 Build Night	Change in noise level - Day	Change in noise level - Night	Project criteria - Day	Project criteria - Night	Exceeds Project criteria? Day	Exceeds Project criteria? Night	Exceedance, dBA - Day	Exceedance, dBA - Night	Max exceedance, dBA	2 dBA increase day?	2 dBA increase night?	cumulative limit exceedance? Day	cumulative limit exceedance? Night	Contribution acute? Day	Contribution acute? Night	Qualifies for treatment?	Acquired prior to Stage 1?	Acquired prior to Stage 2?	Treatment package?	
R0034	35 TOWNSON ROAD MARSDEN PARK	300583	6267267	29	GF	E	Residential	NCA01	56	50	5.0	4.0	55	50	Yes	Yes	1	0	1	Yes	Yes	No	-	-	-	Yes	-	-	Package 1	
R0034	35 TOWNSON ROAD MARSDEN PARK	300557	6267249	29	GF	S	Residential	NCA01	60	55	3.4	2.4	55	50	Yes	Yes	5	5	5	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 1
R0034	35 TOWNSON ROAD MARSDEN PARK	300565	6267250	29	GF	S	Residential	NCA01	61	55	3.4	2.4	55	50	Yes	Yes	6	5	6	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 2
R0034	35 TOWNSON ROAD MARSDEN PARK	300572	6267253	29	GF	S	Residential	NCA01	60	54	3.8	2.6	55	50	Yes	Yes	5	4	5	Yes	Yes	Yes	Yes	No	-	-	Yes	-	-	Package 1
R0035	51 TOWNSON ROAD MARSDEN PARK	300713	6267309	33	GF	E	Residential	NCA01	56	49	5.3	4.3	55	50	Yes	No	1	-1	1	Yes	No	No	-	-	-	Yes	-	-	Package 1	
R0035	51 TOWNSON ROAD MARSDEN PARK	300686	6267303	32	GF	W	Residential	NCA01	59	54	2.7	1.8	55	50	Yes	Yes	4	4	4	Yes	No	No	-	-	No	Yes	-	-	Package 1	
R0035	51 TOWNSON ROAD MARSDEN PARK	300702	6267298	32	GF	S	Residential	NCA01	60	54	4.1	3.0	55	50	Yes	Yes	5	4	5	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 1
R0036	9 TOWNSON ROAD MARSDEN PARK	300373	6267148	30	GF	E	Residential	NCA01	61	55	4.6	3.8	55	50	Yes	Yes	6	5	6	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 2
R0036	9 TOWNSON ROAD MARSDEN PARK	300362	6267136	30	GF	S	Residential	NCA01	65	60	2.5	1.7	55	50	Yes	Yes	10	10	10	Yes	No	Yes	Yes	-	-	-	Yes	-	-	Package 3
R0036	9 TOWNSON ROAD MARSDEN PARK	300359	6267163	29	GF	E	Residential	NCA01	57	51	2.8	2.0	55	50	Yes	Yes	2	1	2	Yes	No	No	No	-	-	-	Yes	-	-	Package 1
R0037	55 TOWNSON ROAD MARSDEN PARK	300749	6267323	34	GF	W	Residential	NCA01	59	53	2.8	1.9	55	50	Yes	Yes	4	3	4	Yes	No	No	No	-	-	-	Yes	-	-	Package 1
R0037	55 TOWNSON ROAD MARSDEN PARK	300759	6267319	34	GF	S	Residential	NCA01	59	53	3.9	2.9	55	50	Yes	Yes	4	3	4	Yes	Yes	No	No	-	-	-	Yes	-	-	Package 1
R0038	63 TOWNSON ROAD MARSDEN PARK	300867	6267227	36	GF	S	Residential	NCA01	67	60	6.4	6.0	55	50	Yes	Yes	12	10	12	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 4
R0038	63 TOWNSON ROAD MARSDEN PARK	300869	6267239	36	GF	E	Residential	NCA01	62	55	6.7	6.5	55	50	Yes	Yes	7	5	7	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 2
R0038	63 TOWNSON ROAD MARSDEN PARK	300852	6267242	36	GF	W	Residential	NCA01	63	57	5.6	4.6	55	50	Yes	Yes	8	7	8	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 2
R0038	63 TOWNSON ROAD MARSDEN PARK	300855	6267233	36	GF	W	Residential	NCA01	64	57	5.9	5.0	55	50	Yes	Yes	9	7	9	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 3
R0038	63 TOWNSON ROAD MARSDEN PARK	300860	6267229	36	GF	S	Residential	NCA01	66	59	6.5	6.0	55	50	Yes	Yes	11	9	11	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 3
R0818	68 SUNNINGDALE DRIVE COLEBEE	301029	6267100	49	GF	N	Residential	NCA03	59	52	2.4	2.1	55	50	Yes	Yes	4	2	4	Yes	Yes	No	No	-	-	-	Yes	-	-	Package 1
R0857	66 SUNNINGDALE DRIVE COLEBEE	301053	6267097	50	GF	N	Residential	NCA03	56	50	3.0	2.6	55	50	Yes	No	1	0	1	Yes	No	No	-	-	-	Yes	-	-	Package 1	
R0857	66 SUNNINGDALE DRIVE COLEBEE	301043	6267103	50	GF	N	Residential	NCA03	58	52	2.5	2.2	55	50	Yes	Yes	3	2	3	Yes	Yes	No	No	-	-	-	Yes	-	-	Package 1
R0911	61 DURHAM ROAD SCHOFIELDS	301694	6267728	26	GF	S	Residential	NCA04	58	52	16.0	16.1	54	50	Yes	Yes	4	2	4	Yes	Yes	No	No	-	-	-	Yes	-	-	Package 1
R0914	55 DURHAM ROAD SCHOFIELDS	301644	6267795	28	GF	SW	Residential	NCA04	66	59	9.6	9.6	55	50	Yes	Yes	11	9	11	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 3
R0914	55 DURHAM ROAD SCHOFIELDS	301657	6267797	28	GF	SE	Residential	NCA04	61	54	15.5	15.4	55	50	Yes	Yes	6	4	6	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 2
R0914	55 DURHAM ROAD SCHOFIELDS	301653	6267815	27	GF	NW	Residential	NCA04	57	50	2.5	2.4	55	50	Yes	No	2	0	2	Yes	No	No	-	-	-	Yes	-	-	Package 1	
R0914	55 DURHAM ROAD SCHOFIELDS	301643	6267814	27	GF	NW	Residential	NCA04	61	54	3.8	3.8	55	50	Yes	Yes	6	4	6	Yes	Yes	Yes	No	-	-	-	Yes	-	-	Package 2
R0914	55 DURHAM ROAD SCHOFIELDS	301641	6267804	27	GF	SW	Residential	NCA04	65	58	8.1	8.0	55	50	Yes	Yes	10	8	10	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 3
R0923	61 DURHAM ROAD SCHOFIELDS	301667	6267764	27	GF	NW	Residential	NCA04	61	54	9.9	9.8	55	50	Yes	Yes	6	4	6	Yes	Yes	Yes	No	-	-	-	Yes	-	-	Package 2
R0923	61 DURHAM ROAD SCHOFIELDS	301657	6267756	28	GF	SW	Residential	NCA04	68	61	14.5	14.4	55	50	Yes	Yes	13	11	13	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 4
R0923	61 DURHAM ROAD SCHOFIELDS	301672	6267746	28	GF	SW	Residential	NCA04	65	58	15.3	15.2	55	50	Yes	Yes	10	8	10	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 3
R0923	61 DURHAM ROAD SCHOFIELDS	301681	6267743	27	GF	SE	Residential	NCA04	61	54	15.6	15.5	55	50	Yes	Yes	6	4	6	Yes	Yes	Yes	No	-	-	-	Yes	-	-	Package 2
R0926	46 DURHAM ROAD SCHOFIELDS	301663	6267652	27	GF	NE	Residential	NCA04	75	68	24.6	24.6	55	50	Yes	Yes	20	18	20	Yes	Yes	Yes	Yes	-	-	-	Yes	Acquired	Acquired	Package 5
R0926	46 DURHAM ROAD SCHOFIELDS	301649	6267658	27	GF	NW	Residential	NCA04	72	65	21.6	21.6	55	50	Yes	Yes	17	15	17	Yes	Yes	Yes	Yes	-	-	-	Yes	Acquired	Acquired	Package 5
R0926	46 DURHAM ROAD SCHOFIELDS	301667	6267633	27	GF	SE	Residential	NCA04	69	62	19.4	19.3	55	50	Yes	Yes	14	12	14	Yes	Yes	Yes	Yes	-	-	-	Yes	Acquired	Acquired	Package 4
R0926	46 DURHAM ROAD SCHOFIELDS	301651	6267646	27	GF	SW	Residential	NCA04	76	69	25.5	25.4	55	50	Yes	Yes	21	19	21	Yes	Yes	Yes	Yes	-	-	-	Yes	Acquired	Acquired	Package 5
R0926	46 DURHAM ROAD SCHOFIELDS	301658	6267633	27	GF	SW	Residential	NCA04	73	66	23.2	23.1	55	50	Yes	Yes	18	16	18	Yes	Yes	Yes	Yes	-	-	-	Yes	Acquired	Acquired	Package 5
R0929	42 JERSEY ROAD SCHOFIELDS	301693	6267647	26	GF	N	Residential	NCA04	60	53	14.3	14.3	55	50	Yes	Yes	5	3	5	Yes	Yes	Yes	No	-	-	-	Yes	-	Acquired	Package 1
R0929	42 JERSEY ROAD SCHOFIELDS	301685	6267642	26	GF	W	Residential	NCA04	64	57	15.1	15.2	55	50	Yes	Yes	9	7	9	Yes	Yes	Yes	Yes	-	-	-	Yes	-	Acquired	Package 3
R0929	42 JERSEY ROAD SCHOFIELDS	301692	6267637	26	GF	S	Residential	NCA04	60	53	12.9	13.0	55	50	Yes	Yes	5	3	5	Yes	Yes	Yes	No	-	-	-	Yes	-	Acquired	Package 1
R0954	5 MEADOW ROAD SCHOFIELDS	301584	6267727	28	GF	SE	Residential	NCA04	59	52	7.8	7.8	55	50	Yes	Yes	4	2	4	Yes	Yes	No	No	-	-	-	Yes	-	-	Package 1
R0954	5 MEADOW ROAD SCHOFIELDS	301600	6267743	29	GF	NE	Residential	NCA04	63	56	9.2	9.2	55	50	Yes	Yes	8	6	8	Yes	Yes	Yes	Yes	-	-	-	Yes	-	-	Package 2
R0954	5 MEADOW ROAD SCHOFIELDS	301598	6267734	29	GF	SE	Residential	NCA04	61	54	11.9	11.9	55	50	Yes	Yes	6	4	6	Yes	Yes	Yes	No	-	-	-	Yes	-	-	Package 2
R0954	5 MEADOW ROAD SCHOFIELDS	301584	6267744	29	GF	NE	Residential	NCA04	58	51	3.6	3.5	55	50	Yes	Yes	3	1	3	Yes	Yes	No	No	-	-	-	Yes	-	-	Package 1
R0954	5 MEADOW ROAD SCHOFIELDS	301590	6267745	29	GF	NW	Residential	NCA04	59	52	2.9	2.9	55	50	Yes	Yes	4	2	4	Yes	Yes	No	No	-	-	-	Yes	-	-	Package 1



Receivers qualifying for mitigation - final design

RID	Address	X	Y	Z	Floor	Direction	Usage	NCA	2038 Build Day	2038 Build Night	Change in noise level - Day	Change in noise level - Night	Project criteria - Day	Project criteria - Night	Exceeds Project criteria? Day	Exceeds Project criteria? Night	Exceedance, dBA - Day	Exceedance, dBA - Night	Max exceedance, dBA	2 dBA increase day?	2 dBA increase night?	cumulative limit exceedance? Day	cumulative limit exceedance? Night	Contribution acute? Day	Contribution acute? Night	Qualifies for treatment?	Acquired prior to Stage 1?	Acquired prior to Stage 2?	Treatment package?		
R0034	35 TOWNSON ROAD MARSDEN PARK	300583	6267267	29	GF	E	Residential	NCA01	56	51	5.1	4.2	55	50	Yes	Yes	1	1	1	Yes	Yes	No	No	-	-	Yes	-	-	Package 1		
R0034	35 TOWNSON ROAD MARSDEN PARK	300541	6267257	28	GF	W	Residential	NCA01	61	56	2.4	1.9	55	50	Yes	Yes	6	6	6	Yes	No	-	-	No	No	-	-	Yes	-	-	Package 2
R0034	35 TOWNSON ROAD MARSDEN PARK	300557	6267249	29	GF	S	Residential	NCA01	61	56	3.8	3.0	55	50	Yes	Yes	6	6	6	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 2		
R0034	35 TOWNSON ROAD MARSDEN PARK	300565	6267250	29	GF	S	Residential	NCA01	61	56	3.7	3.0	55	50	Yes	Yes	6	6	6	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 2		
R0034	35 TOWNSON ROAD MARSDEN PARK	300572	6267253	29	GF	S	Residential	NCA01	61	55	4.0	3.1	55	50	Yes	Yes	6	5	6	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 2		
R0035	51 TOWNSON ROAD MARSDEN PARK	300713	6267309	33	GF	E	Residential	NCA01	56	50	5.5	4.7	55	50	Yes	No	1	0	1	Yes	No	-	-	-	-	Yes	-	-	Package 1		
R0035	51 TOWNSON ROAD MARSDEN PARK	300686	6267303	32	GF	W	Residential	NCA01	60	55	3.0	2.3	55	50	Yes	Yes	5	5	5	Yes	Yes	Yes	Yes	-	-	No	Yes	-	Package 1		
R0035	51 TOWNSON ROAD MARSDEN PARK	300702	6267298	32	GF	S	Residential	NCA01	60	54	4.2	3.4	55	50	Yes	Yes	5	4	5	Yes	Yes	Yes	No	-	-	Yes	-	-	Package 1		
R0036	9 TOWNSON ROAD MARSDEN PARK	300373	6267148	30	GF	E	Residential	NCA01	62	56	5.9	5.0	55	50	Yes	Yes	7	6	7	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 2		
R0036	9 TOWNSON ROAD MARSDEN PARK	300362	6267136	30	GF	S	Residential	NCA01	67	61	3.6	2.8	55	50	Yes	Yes	12	11	12	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 4		
R0036	9 TOWNSON ROAD MARSDEN PARK	300359	6267163	29	GF	E	Residential	NCA01	58	52	3.5	2.8	55	50	Yes	Yes	3	2	3	Yes	Yes	No	No	-	-	Yes	-	-	Package 1		
R0036	9 TOWNSON ROAD MARSDEN PARK	300365	6267160	30	GF	N	Residential	NCA01	59	54	2.2	1.8	55	50	Yes	Yes	4	4	4	Yes	No	-	-	No	No	-	-	Yes	-	Package 1	
R0037	55 TOWNSON ROAD MARSDEN PARK	300766	6267327	34	GF	E	Residential	NCA01	56	49	5.8	4.9	55	50	Yes	No	1	-1	1	Yes	No	-	-	-	-	Yes	-	-	Package 1		
R0037	55 TOWNSON ROAD MARSDEN PARK	300749	6267323	34	GF	W	Residential	NCA01	59	54	3.2	2.5	55	50	Yes	Yes	4	4	4	Yes	Yes	No	-	-	No	Yes	-	-	Package 1		
R0037	55 TOWNSON ROAD MARSDEN PARK	300759	6267319	34	GF	S	Residential	NCA01	60	54	4.2	3.4	55	50	Yes	Yes	5	4	5	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 1		
R0038	63 TOWNSON ROAD MARSDEN PARK	300867	6267227	36	GF	S	Residential	NCA01	67	61	6.7	6.4	55	50	Yes	Yes	12	11	12	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 4		
R0038	63 TOWNSON ROAD MARSDEN PARK	300869	6267239	36	GF	E	Residential	NCA01	62	58	7.1	7.0	55	50	Yes	Yes	7	6	7	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 2		
R0038	63 TOWNSON ROAD MARSDEN PARK	300859	6267249	36	GF	N	Residential	NCA01	56	51	2.9	2.2	55	50	Yes	Yes	1	1	1	Yes	Yes	No	-	-	No	Yes	-	-	Package 1		
R0038	63 TOWNSON ROAD MARSDEN PARK	300852	6267242	36	GF	W	Residential	NCA01	63	57	5.6	4.8	55	50	Yes	Yes	8	7	8	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 1		
R0038	63 TOWNSON ROAD MARSDEN PARK	300855	6267233	36	GF	W	Residential	NCA01	64	58	5.9	5.2	55	50	Yes	Yes	8	8	9	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 3		
R0038	63 TOWNSON ROAD MARSDEN PARK	300860	6267229	36	GF	S	Residential	NCA01	66	59	6.5	6.1	55	50	Yes	Yes	11	9	11	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 3		
R0812	41 SUNNINGDALE DRIVE COLEBEE	301033	6267017	48	GF	S	Residential	NCA03	61	54	2.5	2.4	60	55	Yes	No	1	-2	1	Yes	No	-	-	No	Yes	-	-	Package 1			
R0812	41 SUNNINGDALE DRIVE COLEBEE	301033	6267017	51	F 1	S	Residential	NCA03	62	55	2.4	2.3	60	55	Yes	Yes	2	0	2	Yes	Yes	-	-	No	Yes	-	-	Package 1			
R0812	41 SUNNINGDALE DRIVE COLEBEE	301028	6267038	48	GF	N	Residential	NCA03	62	55	2.7	2.7	60	55	Yes	No	2	0	2	Yes	No	-	-	No	Yes	-	-	Package 1			
R0812	41 SUNNINGDALE DRIVE COLEBEE	301028	6267038	51	F 1	N	Residential	NCA03	63	56	2.6	2.6	60	55	Yes	Yes	3	1	3	Yes	Yes	-	-	No	No	Yes	-	-	Package 1		
R0812	41 SUNNINGDALE DRIVE COLEBEE	301024	6267026	48	GF	W	Residential	NCA03	67	60	2.6	2.7	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0812	41 SUNNINGDALE DRIVE COLEBEE	301024	6267026	51	F 1	W	Residential	NCA03	68	61	2.5	2.5	60	55	Yes	Yes	8	6	8	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0818	68 SUNNINGDALE DRIVE COLEBEE	301020	6267091	48	GF	W	Residential	NCA03	63	56	2.9	2.8	60	55	Yes	Yes	3	1	3	Yes	Yes	-	-	No	No	Yes	-	-	Package 1		
R0818	68 SUNNINGDALE DRIVE COLEBEE	301022	6267079	48	GF	S	Residential	NCA03	62	55	2.4	2.4	60	55	Yes	No	2	0	2	Yes	No	-	-	No	Yes	-	-	Package 1			
R0828	60 SUNNINGDALE DRIVE COLEBEE	301082	6267075	51	GF	N	Residential	NCA03	56	50	5.0	4.6	55	50	Yes	No	1	0	1	Yes	No	-	-	-	-	Yes	-	-	Package 1		
R0835	52 SUNNINGDALE DRIVE COLEBEE	301124	6267060	53	F 1	N	Residential	NCA03	56	50	4.9	4.4	55	50	Yes	No	1	0	1	Yes	No	-	-	-	-	Yes	-	-	Package 1		
R0857	66 SUNNINGDALE DRIVE COLEBEE	301053	6267097	50	GF	N	Residential	NCA03	58	52	4.8	4.4	55	50	Yes	Yes	3	2	3	Yes	Yes	No	No	-	-	Yes	-	-	Package 1		
R0857	66 SUNNINGDALE DRIVE COLEBEE	301043	6267103	50	GF	N	Residential	NCA03	60	53	4.2	3.7	55	50	Yes	Yes	5	3	5	Yes	Yes	Yes	Yes	-	-	Yes	-	-	Package 1		
R0857	66 SUNNINGDALE DRIVE COLEBEE	301035	6267095	49	GF	W	Residential	NCA03	57	50	4.1	3.7	55	50	Yes	Yes	2	0	2	Yes	Yes	No	-	-	Yes	-	-	Package 1			
R0859	20 VALDERRAMA STREET COLEBEE	301086	6266836	51	F 1	W	Residential	NCA03	57	52	2.2	1.9	55	50	Yes	Yes	2	2	2	Yes	No	-	-	No	No	Yes	-	-	Package 1		
R0861	21 VALDERRAMA STREET COLEBEE	301107	6266802	49	GF	N	Residential	NCA03	56	50	2.1	2.0	55	50	Yes	No	1	0	1	Yes	No	-	-	No	Yes	-	-	Package 1			
R0863	22 VALDERRAMA STREET COLEBEE	301063	6266834	47	GF	W	Residential	NCA03	69	62	2.4	2.5	60	55	Yes	Yes	9	7	9	Yes	Yes	-	-	No	No	Yes	-	-	Package 3		
R0870	20 VICTORY ROAD COLEBEE	301086	6266753	48	GF	W	Residential	NCA03	66	59	2.5	2.5	60	55	Yes	Yes	6	4	6	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0870	20 VICTORY ROAD COLEBEE	301086	6266745	48	GF	W	Residential	NCA03	67	60	2.5	2.5	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0870	20 VICTORY ROAD COLEBEE	301092	6266741	48	GF	S	Residential	NCA03	62	55	2.5	2.5	60	55	Yes	Yes	2	0	2	Yes	Yes	-	-	No	Yes	-	-	Package 1			
R0871	14 VICTORY ROAD COLEBEE	301102	6266688	50	GF	W	Residential	NCA03	65	58	2.5	2.5	60	55	Yes	Yes	5	3	5	Yes	Yes	-	-	No	No	Yes	-	-	Package 1		
R0872	40 VICTORY ROAD COLEBEE	301047	6266929	48	GF	W	Residential	NCA03	66	59	2.5	2.5	60	55	Yes	Yes	6	4	6	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0872	40 VICTORY ROAD COLEBEE	301047	6266929	51	F 1	W	Residential	NCA03	67	60	2.5	2.5	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0873	44 VICTORY ROAD COLEBEE	301040	6266958	48	GF	W	Residential	NCA03	66	59	2.6	2.6	60	55	Yes	Yes	6	4	6	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0873	44 VICTORY ROAD COLEBEE	301040	6266958	51	F 1	W	Residential	NCA03	67	60	2.4	2.5	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0874	42 VICTORY ROAD COLEBEE	301043	6266944	48	GF	W	Residential	NCA03	66	59	2.5	2.6	60	55	Yes	Yes	6	4	6	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0874	42 VICTORY ROAD COLEBEE	301043	6266944	51	F 1	W	Residential	NCA03	67	60	2.5	2.5	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0875	38 VICTORY ROAD COLEBEE	301049	6266919	47	GF	W	Residential	NCA03	66	59	2.5	2.6	60	55	Yes	Yes	6	4	6	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0875	38 VICTORY ROAD COLEBEE	301049	6266918	50	F 1	W	Residential	NCA03	67	60	2.4	2.5	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0875	38 VICTORY ROAD COLEBEE	301050	6266912	47	GF	W	Residential	NCA03	66	59	2.4	2.5	60	55	Yes	Yes	6	5	6	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0875	38 VICTORY ROAD COLEBEE	301050	6266912	50	F 1	W	Residential	NCA03	67	60	2.4	2.4	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0876	36 VICTORY ROAD COLEBEE	301054	6266896	47	GF	W	Residential	NCA03	66	59	2.5	2.5	60	55	Yes	Yes	6	4	6	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0876	36 VICTORY ROAD COLEBEE	301054	6266896	50	F 1	W	Residential	NCA03	67	60	2.4	2.4	60	55	Yes	Yes	7	5	7	Yes	Yes	-	-	No	No	Yes	-	-	Package 2		
R0876	36 VICTORY ROAD COLEBEE	301055	6266904	47	GF	W	Residential	NCA03	63	56	2.4	2.5	60	55	Yes	Yes	3	1	3	Yes	Yes	-	-	No	No	Yes	-	-	Package 1		
R0876	36 VICTORY ROAD COLEBEE	301055	6266904	50	F 1	W	Residential	NCA03	64	57	2.3	2.3	60	55	Yes	Yes	4	2	4	Yes	Yes	-	-	No	No	Yes	-	-	Package 1		
R0877	24 VICTORY ROAD COLEBEE	301079	6266779	48	GF	W	Residential	NCA03	67	60	2.4																				

Receivers qualifying for mitigation - final design

RID	Address	X	Y	Z	Floor	Direction	Usage	NCA	2038 Build Day	2038 Build Night	Change in noise level - Day	Change in noise level - Night	Project criteria - Day	Project criteria - Night	Exceeds Project criteria? Day	Exceeds Project criteria? Night	Exceedance, dBA - Day	Exceedance, dBA - Night	Max exceedance, dBA	2 dBA increase day?	2 dBA increase night?	cumulative limit exceedance? Day	cumulative limit exceedance? Night	Contribution acute? Day	Contribution acute? Night	Qualifies for treatment?	Acquired prior to Stage 1?	Acquired prior to Stage 2?	Treatment package?
R0929	42 JERSEY ROAD SCHOFIELDS	301685	6267642	26	GF	W	Residential	NCA04	67	60	18.6	18.8	55	50	Yes	Yes	12	10	12	Yes	Yes	Yes	Yes	-	-	Yes	-	Acquired	Package 4
R0929	42 JERSEY ROAD SCHOFIELDS	301692	6267637	26	GF	S	Residential	NCA04	73	67	26.6	26.7	55	50	Yes	Yes	18	17	18	Yes	Yes	Yes	Yes	-	-	Yes	-	Acquired	Package 5
R0954	5 MEADOW ROAD SCHOFIELDS	301584	6267727	28	GF	SE	Residential	NCA04	59	52	7.8	7.8	55	50	Yes	Yes	4	2	4	Yes	Yes	No	No	-	-	Yes	-	-	Package 1
R0954	5 MEADOW ROAD SCHOFIELDS	301574	6267728	28	GF	SW	Residential	NCA04	58	51	2.9	3.0	55	50	Yes	Yes	3	1	3	Yes	Yes	No	No	-	-	Yes	-	-	Package 1
R0954	5 MEADOW ROAD SCHOFIELDS	301600	6267743	29	GF	NE	Residential	NCA04	56	49	2.1	2.1	55	50	Yes	No	1	-1	1	Yes	No	No	-	-	Yes	-	-	Package 1	
R0954	5 MEADOW ROAD SCHOFIELDS	301598	6267734	29	GF	SE	Residential	NCA04	58	51	9.0	8.9	55	50	Yes	Yes	3	1	3	Yes	Yes	No	No	-	-	Yes	-	-	Package 1

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Document Status

Revision	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
1	M.Velasco	Pri Pandey		Matthew Ferreira		27.07.2020
2	M.Velasco	Pri Pandey		Matthew Ferreira		03/02/2021
3	M.Velasco	Pri Pandey		Matthew Ferreira		11/02/2021

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