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Noise and Vibration Technical Report

Singleton Bypass - Concept Design and Environmental Assessment

Noise and Vibration Technical Report

Singleton Bypass - Concept Design and Environmental Assessment

Client: Roads and Maritime Services

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Glossary of Acoustic Terminology

The following is a brief description of acoustic terminology used in this report.

Sound power level	The total sound emitted by a source.
Sound pressure level	The amount of sound at a specified point.
Decibel [dB]	The measurement unit of sound.
A Weighted decibels [dB(A)]	The A weighting is a frequency filter applied to measured noise levels to represent how humans hear sounds. The A-weighting filter emphasises frequencies in the speech range (between 1kHz and 4 kHz) which the human ear is most sensitive to, and places less emphasis on low frequencies at which the human ear is not so sensitive. When an overall sound level is A-weighted it is expressed in units of dB(A).
Decibel scale	The decibel scale is logarithmic in order to produce a better representation of the response of the human ear. A 3 dB increase in the sound pressure level corresponds to a doubling in the sound energy. A 10 dB increase in the sound pressure level corresponds to a perceived doubling in volume. Examples of decibel levels of common sounds are as follows:

0dB(A)	Threshold of human hearing
30dB(A)	A quiet country park
40dB(A)	Whisper in a library
50dB(A)	Open office space
70dB(A)	Inside a car on a freeway
80dB(A)	Outboard motor
90dB(A)	Heavy truck pass-by
100dB(A)	Jackhammer/Subway train
110 dB(A)	Rock Concert
115dB(A)	Limit of sound permitted in industry
120dB(A)	747 take off at 250 metres

Frequency [f]	The repetition rate of the cycle measured in Hertz (Hz). The frequency corresponds to the pitch of the sound. A high frequency corresponds to a high pitched sound and a low frequency to a low pitched sound.
Equivalent continuous sound level [L_{eq}]	The constant sound level which, when occurring over the same period of time, would result in the receiver experiencing the same amount of sound energy.
L_{max}	The maximum sound pressure level measured over the measurement period.
L_{min}	The minimum sound pressure level measured over the measurement period.
L_{10}	The sound pressure level exceeded for 10% of the measurement period. For 10% of the measurement period it was louder than the L_{10}.

L_{90}	The sound pressure level exceeded for 90% of the measurement period. For 90% of the measurement period it was louder than the L_{90}.
Ambient noise	The all-encompassing noise at a point composed of sound from all sources near and far.
Background noise	The underlying level of noise present in the ambient noise when extraneous noise (such as transient traffic and dogs barking) is removed. The L_{90} sound pressure level is used to quantify background noise.
Traffic noise	The total noise resulting from road traffic. The L_{eq} sound pressure level is used to quantify traffic noise.
Day	The period from 0700 to 1800 h Monday to Saturday and 0800 to 1800 h Sundays and Public Holidays.
Evening	The period from 1800 to 2200 h Monday to Sunday and Public Holidays.
Night	The period from 2200 to 0700 h Monday to Saturday and 2200 to 0800 h Sundays and Public Holidays.
Assessment background level [ABL]	The overall background level for each day, evening and night period for **each day** of the noise monitoring.
Rating background level [RBL]	The overall background level for each day, evening and night period for the **entire length** of noise monitoring.
Existing road traffic noise model	A model of the existing roads that calculates existing road traffic noise levels. This is used for model validation purposes with concurrently measured road traffic noise levels and traffic counts.
Design noise model	A model of the proposal as it was designed, that calculates road traffic noise levels.
Year of opening	The year that the proposal opens (2026).
Design year	Ten years after the proposal opens (2036).
'Do minimum' option	The 'do minimum' option represents the scenario if the proposal was not to proceed. It is called 'Do Minimum' rather than Do Nothing as it assumes that ongoing improvements would be made to the broader road and public transport network including some new infrastructure and intersection improvements to improve capacity and cater for traffic growth.
Design option	This scenario includes the proposal design alignment. The Road Noise Policy, Noise Criteria Guideline, and Noise Mitigation Guideline refer to this as the 'Build' scenario.

*Definitions of a number of terms have been adapted from Australian Standard AS1633:1985 *"Acoustics – Glossary of terms and related symbols"*, the EPA's Noise Policy for Industry and the EPA's NSW Road Noise Policy.

Abbreviations

Term	Meaning
AADT	Annual Average Daily Traffic
CNVMP	Construction Noise and Vibration Management Plan
dB	Decibel
DECC	Department of Environment and Climate Change
DECCW	Department of Environment, Climate Change and Water
EPA	Environment Protection Authority
EP&A Act	*Environmental Planning and Assessment Act 1979* (NSW)
EP&A Regulation	Environmental Planning and Assessment Regulation 2000 (NSW)
EPL	Environment Protection Licence
Heritage Act	*Heritage Act 1977* (NSW)
ICNG	*Interim Construction Noise Guideline* (Department of Environment and Climate Change, 2009).
Infrastructure SEPP	*State Environmental Planning Policy (Infrastructure) 2007* (NSW)
LEP	Local Environmental Plan
LGA	Local Government Area
NCA	Noise Catchment Area
NML	Noise Management Level
NPfI	*Noise Policy for Industry* (Environment Protection Authority, 2017)
NSW	New South Wales
OEH	NSW Office of the Environment and Heritage
OOHW	Out of Hours Works
POEO Act	*Protection of the Environment Operations Act 1997* (NSW)
RBL	Rating Background Level
REF	Review of Environmental Factors
Roads and Maritime	Roads and Maritime Services
SEPP	State Environmental Planning Policy
SHR	State Heritage Register
TfNSW	Transport for NSW
VDV	Vibration Dose Value

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Executive Summary

Roads and Maritime Services (Roads and Maritime) propose to build a bypass at Singleton. The proposal is located to the west of Singleton and connects the New England Highway to the north and south of Singleton.

The proposal includes about eight kilometres of new highway (the bypass) with a single lane in each direction. The proposal connects to the New England Highway north of McDougalls Hill at the northern end and near Newington Lane at the southern end. There are also connections to Putty Road at Glenridding and the New England Highway at Gowrie Gates. Bridges are proposed over the Main North railway line, Doughboy Hollow and Hunter River floodplains, over the Hunter River and the New England Highway at Gowrie Gates.

Construction of the proposal will primarily occur during standard construction hours except for bridge works and tie-ins to existing pavement which would be completed out of hours to reduce impacts to the road network. Delivery and removal of over-sized loads would probably also be out of hours.

This technical paper provides a detailed report assessing potential noise and vibration impacts from both the construction and operational phases of the proposal. Relevant guidelines and assessment procedures have been followed so that all applicable state requirements have been considered.

Construction noise

A construction noise impact assessment has been completed in accordance with the *Interim Construction Noise Guideline* and *Construction Noise and Vibration Guideline*. Reasonable worst-case construction scenarios have been assessed. Construction would comprise works at construction ancillary facilities and works which would progress along the alignment. The assessment was undertaken for both standard hours and for out of hours works. However, it should be noted that out of hours works would be minimised and the assessment presents a worst-case scenario.

To facilitate the assessment at nearby noise and vibration sensitive receivers, noise catchment areas were identified (i.e. areas in which receivers are considered to experience a similar noise environment). Noise and vibration sensitive receivers include residential properties, educational facilities, places of worship and recreational areas. Background noise levels were monitored at four locations to determined appropriate construction noise management levels.

The assessment indicates exceedances of the *Interim Construction Noise Guideline* noise management levels at some sensitive receivers during standard hours. Up to two receivers are predicted to be highly noise affected close to the construction compounds. The noisiest construction works would be site establishment works. Noise levels from the works associated with the alignment would exceed the noise management levels at nearby receivers during a number of scenarios. The pavement and earthworks are likely to cause the largest number of exceedances of the noise management levels. Most exceedances would be less than 10 dB(A). Up to 15 residences would be highly noise affected during these works.

During out of hours works exceedances of the noise management levels would occur at some sensitive receivers. Exceedances would be generally less than 15 dB(A) at construction compounds. The noisiest construction works would be the laydown works. Noise levels from the works associated with the alignment would exceed the noise management levels at nearby receivers during a number of scenarios. The pavement works are likely to cause the largest number of exceedances and awakening reactions. Most exceedances would be less than 15 dB(A).

Overall the pavement works would have the greatest impacts (considering timing, duration, and noise impacts). This work would be undertaken during standard hours and out of hours at times. As the pavement works are progressive in nature receivers will not be affected for the whole duration of construction works. Effective noise mitigation and management measures would need to be developed by the contractor to reduce the potential noise impacts from the works.

Minimum working distances for vibration intensive construction works have been presented and are up to 30 m when vibratory pile drivers are in use. Equipment size would be selected by the contractor considering the minimum working distances and the distance between the area of construction and the most affected sensitive receiver. If works need to be undertaken within cosmetic damage minimum

working distances, which may occur at a few residential receivers in Glenridding, vibration monitoring would be undertaken and site specific minimum working distances determined. Heritage and other sensitive structures would need to be considered on a case-by-case basis, dependent on their sensitivity.

Vibration intensive activities during site establishment works for the Southern connection laydown area, the Waterworks Lane construction compound and the Gowrie Gates construction compound may occur within the human comfort minimum working distances at times. For the alignment works vibration intensive activities may occur within the human comfort minimum working distances during earthworks, bridge construction and pavement works. Advance notification should be given to all potentially affected receivers.

Construction traffic would increase road traffic noise levels in some areas, but this would largely remain less than 2 dB(A) which is under the applicable target criterion in the *Road Noise Policy*.

The magnitude of these impacts is consistent with other major works projects and highlights the need for effective noise mitigation and management planning. Measures have been recommended which would reduce construction noise impacts. The number, degree and nature of these measures would ultimately be selected by the contractor and be largely dependent on the construction strategy and work undertaken. Specific noise management and mitigation measures would be detailed in the contractor's Construction Noise and Vibration Management Plan.

Operational noise

An operational road traffic impact noise assessment has been completed in accordance with the Environment Protection Authority's *NSW Road Noise Policy* and Roads and Maritime's *Noise Criteria Guideline* and *Noise Mitigation Guideline*.

Existing road traffic noise levels have been monitored at a total of four locations and used to validate the operational road noise model. The model was then used to predict road traffic noise levels at sensitive receiver locations throughout the operational noise study area for both the daytime and night-time scenarios.

Exceedances of the applicable noise criteria have been identified. Noise mitigation in the form of low noise pavements, noise barriers, and architectural treatments have been considered to protect the community. Due to the limited noise reduction properties of durable low-noise pavements their use was not considered reasonable. A detailed noise barrier assessment has resulted in the recommendation of six noise barriers. Barriers one to three are located south of Singleton and Glenridding, with barriers four and five located to the west of Darlington and barrier six to the west of Singleton Heights. The barriers range in height from 3.0 – 3.5 m.

Assuming the construction of the six noise barriers, 89 noise sensitive receivers are still considered to be eligible for the consideration of at-receiver noise treatment. This includes 37 receivers in Darlington, 21 receivers in Glenridding, 13 in Singleton Heights, nine in Singleton, three in Whittingham, five in McDougalls Hill and one in Rixs Creek.

At-receiver treatments may include, but are not limited to, ventilation, glazing, window and door seals, sealing of vents and underfloor areas. These recommendations would be reviewed and confirmed at the detailed design phase when more specific information would be available for each property.

Where properties have been identified for at-receiver noise treatment and would be impacted by noise from construction works, Roads and Maritime would consult with those property owners about bringing forward the installation of treatments to provide noise mitigation during the construction of the proposal.

1.0 Introduction

Roads and Maritime Services (Roads and Maritime) proposes to build a New England Highway bypass of Singleton. The proposal is located to the west of Singleton and connects the New England Highway to the north and south of Singleton.

1.1 Overview of the proposal

Key components of the proposal would include:

- About eight kilometres of new highway (the bypass) with a single lane in each direction
- Connection with the New England Highway at the southern end of the bypass (the southern connection) including a southbound entry ramp and northbound exit ramp
- A 55 metre long bridge over the bypass at the southern connection
- 1.7 kilometre bridge over the Main North railway line, the Doughboy Hollow and Hunter River floodplain, Army Camp Road and Putty Road (bridge over the floodplain)
- Connection to Putty Road including a northbound entry ramp and southbound exit ramp (the Putty Road connection)
- A 40 metre long bridge over the entry ramp at the Putty Road connection
- A 100 metre long bridge over Rose Point floodway
- A 205 metre long bridge over the Hunter River
- A 40 metre long bridge over the New England Highway west of the existing Main North railway line overbridge (known as Gowrie Gates)
- Connection with the New England Highway at the Gowrie Gates consisting of a southbound entry ramp and northbound exit ramp. The northbound exit ramp would connect to the New England Highway via a new roundabout intersection at Maison Dieu Road
- A 1.7 kilometre northbound climbing lane between Gowrie Gates and the northern connection
- Connection at Magpie Street providing access to the nearby industrial area (the northern connection) consisting of a southbound entry ramp, southbound exit ramp and northbound entry ramp
- A 60 metre long bridge over the bypass at the northern connection.

Once complete, the new bypass would:

- Improve the town centre by removing freight traffic
- Improve the Singleton town centre amenity
- Improve safety for all road users at this known pinch point
- Reduce heavy vehicle freight traffic through Singleton
- Potentially provide improved flood amenity and/or evacuation routes for Singleton.

Construction of the proposal is likely to primarily occur during standard construction hours except for bridge works and tie-ins to existing pavement which would be completed out of hours to minimise impacts to the road network. Ancillary facilities would also be in use out of hours as required by these works. Delivery and removal of over-sized loads, would probably also be out of hours.

A number of existing concrete batch plants in the area would be used for the supply of concrete for the proposal.

This technical report provides a noise and vibration impact assessment of the proposal and has been prepared to support the Review of Environmental Factors (REF). The construction and operational phases of the report have been assessed using the applicable noise and vibration guidelines.

1.2 Structure of this report

This report is structured as follows:

- Chapter 1 – Introduction – This chapter introduces the project and describes the project area
- Chapter 2 – Existing environment. This chapter provides a description of the existing noise environment within the study area
- Chapter 3 – Assessment methodology. This chapter summarises the assessment criteria that applies to this assessment
- Chapter 4 – Assessment of construction noise and vibration impacts. The chapter provides the results of the construction noise and vibration impact assessment
- Chapter 5 – Assessment of operational noise impacts. This chapter provides the results of the road traffic noise impact assessment
- Chapter 6 – Management of impacts. The chapter outlines the recommended mitigation and management measures for potential construction and operational noise, subject to detailed design
- Chapter 7 – Conclusion. This chapter presents the conclusion to the report.

2.0 Existing environment

2.1 Study areas

The proposal area traverses the suburbs of Whittingham, Glenridding, Singleton, Gowrie, Darlington, Singleton Heights, McDougalls Hill and Rixs Creek. The proposal area includes a mix of rural and suburban areas. The noise and vibration impact assessment has considered two study areas:

- Construction noise assessment study area which comprises five noise catchment areas (NCA), as identified in Figure 2-1
- Operational road traffic noise study area which extends to where noise levels are dominated by other roads that are not being assessed as part of this proposal, as detailed in the *Noise Criteria Guideline*. This is up to a maximum distance of 600 metres from the centre line of the outermost traffic lane on each side of the each road under consideration and is shown in Figure 2-2.

The study areas include a mixture of receivers sensitive to noise and vibration such as, residential properties, educational establishments, hospitals and recreational areas.

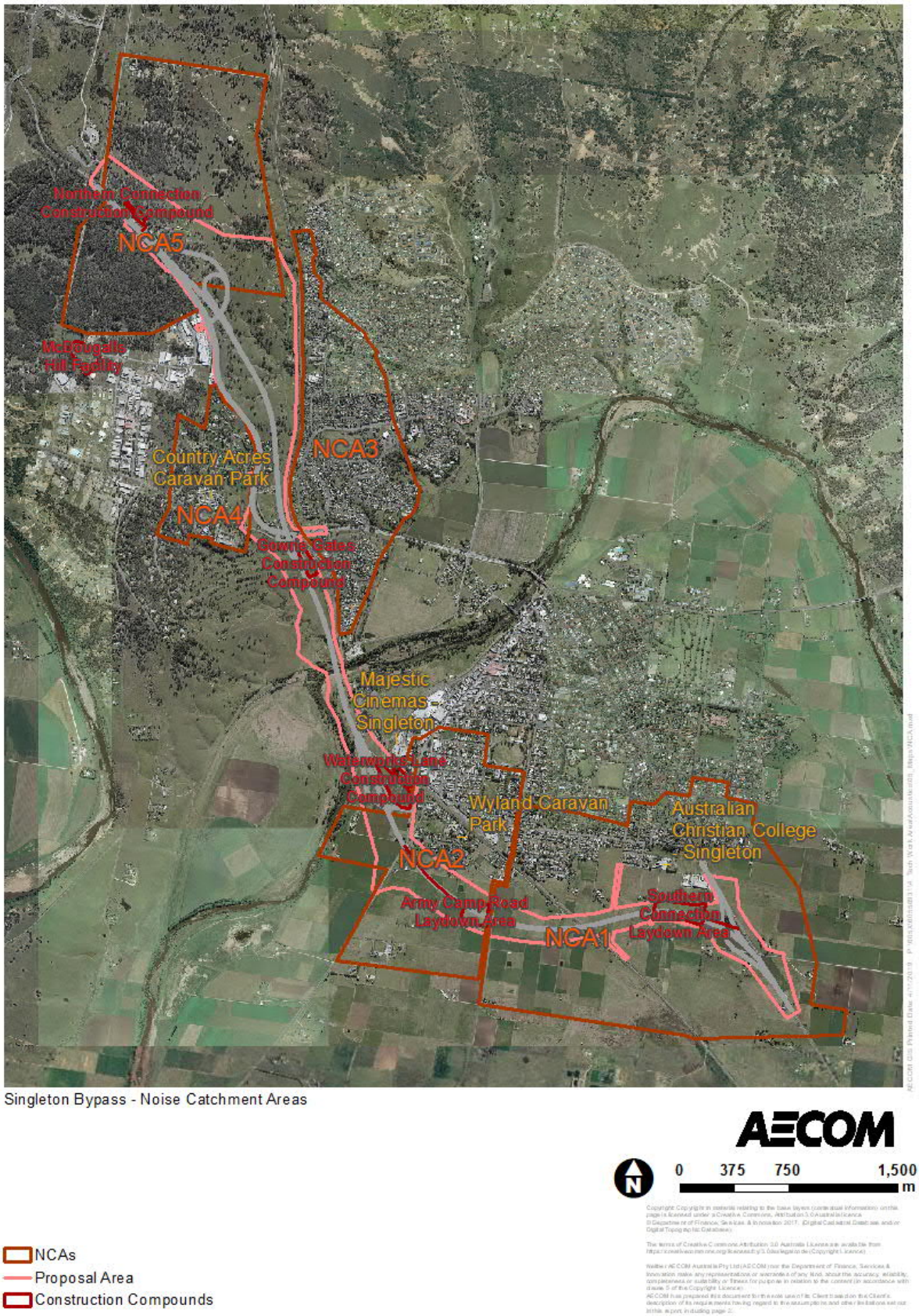


Figure 2-1 Construction noise assessment noise catchment areas

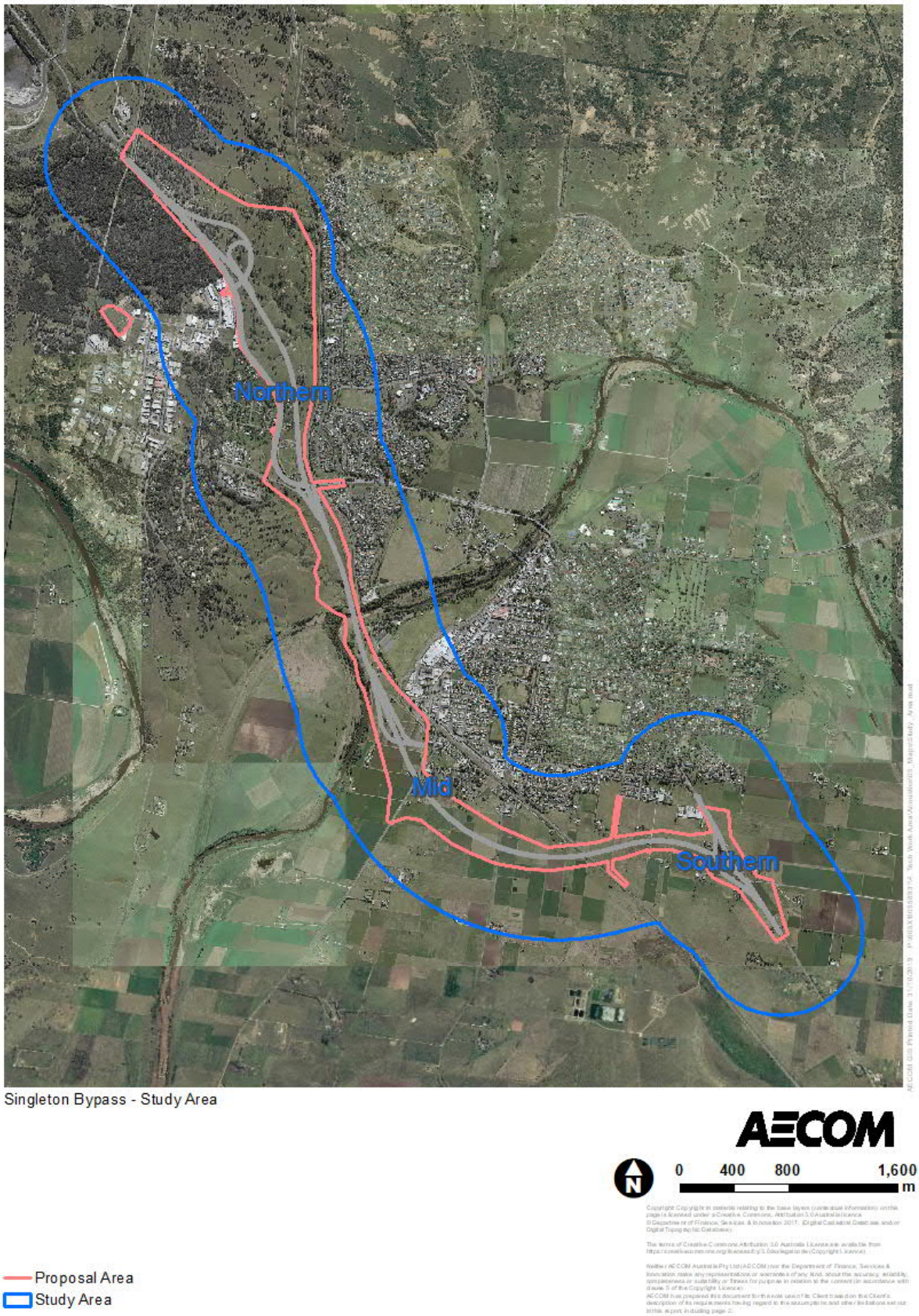


Figure 2-2 Operational noise assessment study area

2.2 Existing noise environment

At the southern and northern ends of the operational noise study area (Figure 2-2) the noise environment is dominated by traffic flows on the New England Highway. Mining activities contribute to the noise environment in the northern section and rail movements on the Main North railway line contribute within the lower section of the northern end.

The noise environment in the mid-section of the study area is rural/suburban. Significant noise sources include local traffic and rail movements on the Main North railway line located to the north-east and mining activities to the north.

The construction noise catchment area NCA lies at the southern end of the proposal area, NCA2 lies within the mid-section and NCA3, NCA4 and NCA5 are at the northern end of the proposal area.

2.3 Noise sensitive receivers

Noise sensitive receivers were identified using aerial photography. The uses of all buildings within the study areas were determined through a ground-truthing site survey exercise completed on Thursday 1 March 2018. This exercise, in conjunction with cadastral information, was used to determine the classification of residential, commercial, industrial, educational, recreational and other use (unoccupied sheds and the like) buildings. The noise sensitive receivers are presented in Appendix A.

A number of residential properties are to be acquired as part of the proposal. These properties are presented in Table 2-1.

Table 2-1 Residential properties to be acquired

Address	Notes
4294 New England Highway, Whittingham	Currently owned by Roads and Maritime
4295 New England Highway, Whittingham	Building to be acquired
4333 New England Highway, Whittingham	Building to be acquired
4367 New England Highway, Whittingham	Currently owned by Roads and Maritime
30 Glenridding Road, Glenridding	Building to be acquired
28 Glenridding Road, Glenridding	Building to be acquired
26 Glenridding Road, Glenridding	Currently owned by Roads and Maritime
21 Glenridding Road, Glenridding	Currently owned by Roads and Maritime
33 Waterworks Lane, Glenridding	Currently owned by Roads and Maritime
4876 New England Highway, McDougalls Hill	Building to be acquired
4898 New England Highway, McDougalls Hill	Building to be acquired
5064 New England Highway, Rixs Creek	Building to be acquired

These have not been assessed in the construction noise modelling. They have been included in the existing road traffic model and in the ‘do minimum’ operational noise models but have not been included in the ‘build’ operational noise model.

Noise sensitive receivers other than residential receivers are listed in Table 2-2.

Table 2-2 Notable sensitive receivers within the operational and construction noise assessment study areas (non-residential)

Receiver	Address	Receiver Type
Australian Christian College – Singleton (including Rainbows Early Learning Centre)	109-129 Kelso Street, Singleton	School
Wyland Caravan Park Singleton	20 Carrington Street, Glenridding	Caravan Park
Country Acres Caravan Park	58 Maison Dieu Road, McDougalls Hill	Caravan Park
Majestic Cinemas, Singleton	21 Ryan Avenue, Singleton	Cinema
Charbonnier Motor Inn, Singleton	44 Maitland Road, Singleton	Hotel

2.4 Ambient noise monitoring

Ambient noise monitoring was undertaken at seven locations as listed in Table 2-3 between 2 and 15 March 2018.

Concurrent traffic counts were undertaken during the monitoring period. This data has been used to validate the operational road traffic noise model. Results from the monitoring period have been used to establish construction noise management levels.

The locations for the unattended noise loggers were determined through examination of aerial photography and site inspections. Attended noise measurements were also undertaken to determine the nature of the local noise environment and confirm road traffic as the controlling noise source (for the validation of the operational noise model).

The noise logging locations are shown in Appendix A. The noise logging results are provided graphically in Appendix B.

A noise logger measures the noise level over a 15 minute sample period and then determines L_{A1}, L_{A10}, L_{A90}, L_{Amax} and L_{Aeq} levels of the noise environment. The L_{A1}, L_{A10} and L_{A90} levels are the levels exceeded for 1 %, 10 % and 90 % of the sample period respectively. The L_{Amax} level is the maximum noise levels due to individual noise events. The L_{A90} level is taken as the background noise level. The L_{Aeq} level is the energy averaged noise level over the 15 minute period.

The results of the noise monitoring have been processed in accordance with the procedures contained in the *NSW Road Noise Policy* and the *Noise Policy for Industry*. Weather data recorded during the noise monitoring survey periods was obtained from the Bureau of Meteorology weather station, located at Singleton (ID061397). Periods which were affected by noise from extraneous wind and rain were omitted from the results, as indicated in Appendix B.

Details of each noise logging location and the purpose of each noise logger are provided in Table 2-3 below. As the study areas include receivers up to 600 metres from the alignment of roads, noise loggers have been located at varying distances from the existing road alignments. This allows the accuracy of the model to be confirmed over the extent of the proposal.

Table 2-3 Noise logging locations

Ref No.	Address	Purpose			Measurement period
		Construction	Operational road noise	Maximum noise	
1	4294 New England Highway, Whittingham		✓	✓	6 to 12 March 2018
2	35A Waddells Lane, Singleton	✓			2 to 15 March 2018
3	32 Glenridding Road, Glenridding	✓			2 to 15 March 2018
4	3 Maison Dieu Road, Gowrie	✓			8 to 15 March 2018
5	4850 New England Highway, McDougalls Hill		✓	✓	2 to 8 March 2018
6	5066 New England Highway, Rixs Creek (Southern)	✓	✓		6 to 8 March 2018
7	5066 New England Highway, Rixs Creek (Northern)		✓		2 to 8 March 2018

2.5 Unattended background noise monitoring results

The background noise monitoring results are provided in Table 2-4. These noise levels were used to define the appropriate construction noise management levels, consistent with the *Interim Construction Noise Guideline* (ICNG).

The assessment background levels (ABL) were established by determining the lowest tenth-percentile level of the L_{A90} noise data acquired over each assessment period of interest. The background noise level or rating background levels (RBL) representing the day, evening and night-time assessment periods were based on the median of individual ABLs determined over the entire monitoring duration.

Table 2-4 also presents the ambient L_{Aeq} levels at each monitoring location. The L_{Aeq} level is the equivalent continuous sound level and has the same sound energy over the sample period as the actual noise environment with fluctuating sound levels.

The noise levels presented in Table 2-4 indicate that the noise environment at the measurement locations are typical of those located along major transport corridors in rural/suburban areas.

Table 2-4 Ambient and background noise measurements

Noise logger	NCA	Location	Rating background level, dB(A)			Ambient noise level, dB(A)		
			Day[1] $L_{A90,15\ min}$	Evening[1] $L_{A90,15\ min}$	Night[1] $L_{A90,15\ min}$	Day[1] $L_{Aeq,15\ hr}$	Evening[1] $L_{Aeq,4\ hr}$	Night[1] $L_{Aeq,9\ hr}$
2	1	35A Waddells Lane, Singleton	34	34[2]	34[2]	50	51	51
3	2	32 Glenridding Road, Glenridding	35	35	30	50	50	49
4	3 & 4	3 Maison Dieu Road, Gowrie	36	36[2]	32	54	53	55
6	5	5066 New England Highway, Rixs Creek	39	39	31	51	48	47

Notes:

1. *Day is defined as 7:00 am to 6:00 pm, Monday to Saturday and 8:00 am to 6:00 pm Sundays and public holidays; Evening is defined as 6:00 pm to 10:00 pm, Monday to Sunday and public holidays; Night is defined as 10:00 pm to 7:00 am, Monday to Saturday and 10:00 pm to 8:00 am Sundays and public holidays.*
2. *The Noise Policy for Industry notes that the community generally expects a greater control of noise during the evening and night as compared to the day time. Therefore the evening RBL is set to no more than that for the daytime and the night-time to no more than the evening.*

2.6 Operational road noise monitoring results

Table 2-5 presents the logarithmically averaged noise levels measured at each noise monitoring location which have been used for the assessment of road traffic noise. Monitoring locations 1, 5, 6 and 7 were used to validate the road traffic noise model.

The measured noise levels have been compared to the predicted noise levels from the validation noise model. The good correlation that has been identified between these measured noise levels and the predicted noise levels in the validation model provides confidence that the future road traffic noise levels can be accurately predicted for the operational noise assessment. Further information on the noise modelling and validation of noise model outputs is provided in section 5.1.2.

Table 2-5 Measured road traffic noise levels

Noise logger	Road traffic noise level, dB(A)	
	Day (7am to 10pm), $L_{Aeq,15\ hr}$	Night (10pm to 7am), $L_{Aeq,9\ hr}$
1	71	67
5	64	63
6	50	48
7	62	60

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3.0 Assessment methodology

3.1 Relevant guidelines and policies

The following guidelines have been used for the noise and vibration assessment:

- Construction noise:
  - *Construction Noise and Vibration Guideline* (CNVG) (Roads and Maritime 2016)
  - *Interim Construction Noise Guideline* (ICNG) (DECC 2009).
- Construction vibration:
  - *Assessing Vibration: a technical guideline* (NSW Department of Environment and Conservation (DEC) 2006a)
  - DIN 4150:Part 2-1999 Structural vibration – Effects of vibration on structures (*Deutsches Institut für Normung* 1999)
  - DIN 4150:Part 3-1999 Structural vibration – Effects of vibration on structures (*Deutsches Institut für Normung* 1999)
  - Evaluation and Measurement for Vibration in Buildings Part 2, (British Standard (BS) 7385:Part 2-1993) (BS 7385).
- Operational traffic noise:
  - *NSW Road Noise Policy* (RNP) (DECCW 2011)
  - *Noise Criteria Guideline* (NCG) (Roads and Maritime 2015a)
  - *Noise Mitigation Guideline* (NMG) (Roads and Maritime 2015b)
  - *Noise Model Validation Guideline* (Roads and Maritime 2018)
  - *Application Notes – Noise Criteria Guideline* (Roads and Maritime 2015a)
  - *Environmental Noise Management Manual* (ENMM) (Roads and Maritime 2001)
  - *Procedure for Preparing an Operational Noise and Vibration Assessment* (Roads and Maritime 2011b)
  - *Draft At-Receiver Treatment Guideline (ARTG) (Roads and Maritime 2017).*
- Sleep disturbance during construction:
  - *NSW Road Noise Policy* (RNP) (DECCW 2011)
  - *Noise Policy for Industry* (NPfI) (NSW Environment Protection Authority (NSW EPA) 2017).

The above policies and guidelines are detailed further in the following sections, including how they have been employed for the purposes of this assessment.

3.2 Construction Noise

The risk of construction noise impacts on a receiver is determined by the extent of its emergence above the existing background noise level, the duration of the event and the characteristics of the noise.

The *Interim Construction Noise Guideline* is a NSW Government document that identifies ways to manage impacts of construction noise on residences and other noise sensitive land uses. It is the principal guideline for the assessment and management of construction noise in NSW and is used to establish construction noise management levels (NML).

As the proposed works are expected to continue for a period of more than three weeks, and are within relatively close proximity to noise sensitive receivers, a quantitative assessment, based on 'reasonable' worst case construction scenarios, has been carried out for these works. Noise levels resulting from construction activities are predicted at nearby noise sensitive receivers using

environmental noise modelling software and compared to the noise management levels, derived in accordance with the *Interim Construction Noise Guideline*.

Where an exceedance of the noise management levels is predicted, the *Interim Construction Noise Guideline* advises that receivers can be considered 'noise affected' and the proponent should apply all feasible and reasonable work practices to minimise the noise impact. The proponent should also inform all potentially impacted residents of the nature of the works to be carried out, the expected noise level and duration, as well as provide contact details to facilitate feedback from affected residents during construction.

Where construction noise levels at the receiver reach 75 dB(A) residential receivers are considered to be 'highly noise affected' and the proponent should, in consultation with the community, consider restrictions to the hours of construction to provide respite periods.

The *Interim Construction Noise Guideline* defines what is considered to be feasible and reasonable as follows:

- Feasible - a work practice or abatement measure is feasible if it is capable of being put into practice or of being engineered and is practical to build given proposal constraints such as safety and maintenance requirements
- Reasonable - selecting reasonable measures from those that are feasible involves making a judgment to determine whether the overall noise benefits outweigh the overall adverse social, economic and environmental effects, including the cost of the measure.

Additionally the *Interim Construction Noise Guideline* notes that strong justification is required for work that is proposed outside of standard working hours.

Noise management levels for the proposal for residential receivers are determined using the information in Table 3-1.

Table 3-1 Construction noise management levels – Residential receivers (from the ICNG)

Time of day	Construction noise management level $L_{Aeq,15min}$	How to apply
Recommended standard hours: Monday to Friday 7am to 6pm Saturday 8am to 1pm No work on Sundays or public holidays	Noise affected RBL + 10 dB(A)	The noise affected level represents the point above which there may be some community reaction to noise. • Where the predicted or measured $L_{Aeq,15\ min}$ is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level. The proponent should also inform all potentially impacted residents of the nature of works to be carried out, the expected noise levels and duration, as well as contact details.
	Highly noise affected 75 dB(A)	The highly noise affected level represents the point above which there may be strong community reaction to noise. • Where noise is above this level, the relevant authority (consent, determining or regulatory) may require respite periods by restricting the hours that the very noisy activities can occur, taking into account: 1. Times identified by the community when they are less sensitive to noise (such as before and after school for works near schools, or mid-morning or mid-afternoon for works near residences. If the community is prepared to accept a longer period of construction in exchange for restrictions on construction times.

Time of day	Construction noise management level $L_{Aeq,15min}$	How to apply
Outside recommended standard hours	Noise affected RBL + 5 dB(A)	• A strong justification would typically be required for works outside the recommended standard hours. • The proponent should apply all feasible and reasonable work practices to meet the noise affected level. • Where all feasible and reasonable practices have been applied and noise is more than 5 dB(A) above the noise affected level, the proponent should negotiate with the community.

Notes:

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

3.2.1 Noise catchment areas

As noted in section 2.1 the construction noise study area has been divided into five distinct noise catchment areas (NCAs). The noise environment at each of the sensitive receivers within a noise catchment area has a similar noise environment to the unattended monitoring location within that NCA based on site observations. Each of these sensitive receivers is assigned the same background noise level and noise management level. The location of each NCA is provided graphically in Figure 2-1 and in Appendix A. Details of the construction noise management levels for each NCA are provided in Table 3-2.

Table 3-2 Noise catchment areas and construction noise management levels

NCA	Representative logger	Period	Rating background level, dB(A)	Construction noise management level (NML)
1	35A Waddells Lane, Singleton	Day	34	44
		Evening	34	39
		Night	34	39
2	32 Glenridding Road, Glenridding	Day	35	45
		Evening	35	40
		Night	30	35
3 & 4	3 Maison Dieu Road, Gowrie	Day	36	46
		Evening	36	41
		Night	32	37
5	5066 New England Highway, Rixs Creek	Day	39	49
		Evening	39	44
		Night	31	36

3.2.2 Non-residential criteria

Noise management levels recommended by the *Interim Construction Noise Guideline* for non-residential sensitive land uses, such as schools, hospitals or places of worship are provided in Table 3-3. Noise management levels for commercial and industrial premises are provided in Table 3-4.

Table 3-3 Construction noise management levels – non-residential sensitive land uses

Land use	Management level, $L_{Aeq(15\ min)}$
Classrooms at schools and other educational institutions	Internal noise level 45 dB(A)
Hospital wards and operating theatres	Internal noise level 45 dB(A)
Places of worship	Internal noise level 45 dB(A)
Active recreation areas (characterised by sporting activities and activities which generate their own noise or focus for participants, making them less sensitive to external noise intrusion)	External noise level 65 dB(A)
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 dB(A)
Community centres	Depends on the intended use of the centre. Refer to the recommended "maximum" internal levels in AS2107 for specific uses.

Table 3-4 Construction noise management levels – Commercial and industrial land uses

Land use	Management level, $L_{Aeq(15min)}$
Industrial premises	External noise level 75 dB(A)
Offices, retail outlets	External noise level 70 dB(A)

3.2.3 Sleep disturbance

The *Interim Construction Noise Guideline* requires a sleep disturbance assessment to be undertaken where construction works are planned to extend over more than two consecutive nights. Guidance provided in the *Road Noise Policy* for assessing the potential for sleep disturbance recommends that to minimise the risk of sleep disturbance during the night-time period (10pm to 7am), the $L_{A1(1\ min)}$ noise level outside a bedroom window should not exceed the $L_{A90(15\ min)}$ background noise level by more than 15 dB(A). The EPA considers it appropriate to use this metric as a screening criterion to assess the likelihood of sleep disturbance. If this screening criterion is found to be exceeded then a more detailed analysis must be undertaken and include the extent that the maximum noise level exceeds the background noise level and the number of times this is likely to happen during the night-time period.

The *Road Noise Policy* contains a review of research into sleep disturbance which represents NSW EPA advice on the subject of sleep disturbance due to noise events. It concludes that, 'Maximum internal noise levels below 50-55 dB(A) are unlikely to cause awakening reactions'. Therefore, given that an open window provides around 10 dB(A) in noise attenuation from outside to inside, external noise levels of 60-65 dB(A) are unlikely to result in awakening reactions.

Table 3-5 presents the sleep disturbance screening and sleep disturbance awakening reaction criteria.

Table 3-5 Construction noise sleep disturbance criteria

NCA	Rating background level, dB(A)	Sleep disturbance screening $L_{A1(1min)}$ criteria, dB(A)	Sleep disturbance awakening reaction $L_{A1(1min)}$ criteria, dB(A)
NCA1	34	49	65
NCA2	30	45	65
NCA3	32	47	65

NCA	Rating background level, dB(A)	Sleep disturbance screening $L_{A1(1min)}$ criteria, dB(A)	Sleep disturbance awakening reaction $L_{A1(1min)}$ criteria, dB(A)
NCA4	32	47	65
NCA5	31	46	65

3.2.4 Construction road traffic noise

The Road and Maritime's *Construction Noise and Vibration Guideline* notes that noise from construction traffic on public roads is not covered by the *Interim Construction Noise Guideline*. However the *Interim Construction Noise Guideline* does refer to the *Environmental Criteria for Road Traffic Noise*, which is now superseded by the *Road Noise Policy*, for the assessment of noise arising from construction traffic on public roads.

To assess noise impacts from construction traffic, an initial screening test has been undertaken by evaluating whether existing road traffic noise levels would increase by more than 2 dB(A). Where the predicted noise increase is 2 dB(A) or less, then no further assessment is required. However, where the predicted noise level increase is greater than 2 dB(A), further assessment is required using Roads and Maritime's *Noise Criteria Guideline*. Consideration should also be given under the *Noise Criteria Guideline* as to whether the construction traffic triggers new road criteria due to changes in road category.

The *Road Noise Policy* does not require assessment of noise impact to commercial or industrial receivers.

3.3 Construction vibration

The relevant standards/guidelines for the assessment of construction vibration are summarised in Table 3-6.

Table 3-6 Standards / guidelines used for assessing construction vibration

Item	Standard/guideline
Structural damage	German Standard DIN 4150 – Part 3 – Structural Vibration in Buildings – Effects on Structures (DIN 4150)
Human comfort (tactile vibration) 1	Assessing Vibration: A Technical Guideline[1]
Human comfort (ground-borne noise)	Interim Construction Noise Guideline

Notes:

1 *This document is based upon the guidelines contained in British Standard 6472:1992, "Evaluation of human exposure to vibration in buildings (1-80 Hz)". This British Standard was superseded in 2008 with BS 6472-1:2008 "Guide to evaluation of human exposure to vibration in buildings – Part 1: Vibration sources other than blasting" and the 1992 version of the Standard was withdrawn. Although a new version of BS 6472 has been published, the Environment Protection Authority still requires vibration to be assessed in accordance with the 1992 version of the Standard at this point in time.*

Vibration and its associated effects are usually classified as continuous, impulsive or intermittent as follows:

- Continuous vibration continues uninterrupted for a defined period and includes sources such as machinery and continuous construction activities for example, a tunnel boring machine
- Impulsive vibration is a rapid build up to a peak followed by a damped decay. It may consist of several cycles at around the same amplitude, with a duration of typically less than two seconds and no more than three occurrences in an assessment period. This may include occasional dropping of heavy equipment or loading activities
- Intermittent vibration occurs where there are interrupted periods of continuous vibration, repeated periods of impulsive vibration or continuous vibration that varies significantly in magnitude. This may include intermittent construction activity, impact pile driving, jack hammers.

3.3.1 Structural damage

At present, no Australian Standards exist for the assessment of building damage caused by vibration.

DIN 4150 provides recommended maximum levels of vibration that reduce the likelihood of building damage caused by vibration and are presented in Table 3-7. DIN 4150 states that buildings exposed to higher levels of vibration than the recommended limits would not necessarily result in damage.

Table 3-7 DIN 4150: Structural damage safe limits for building vibration

Group	Type of structure	Vibration velocity in mm/s			
		At foundation at a frequency of:			Vibration at the horizontal plane of the highest floor
		Less than 10 Hz	10 Hz to 50 Hz	50 Hz to 100 Hz	All frequencies
1	Buildings used for commercial purposes, industrial buildings and buildings of similar design	20	20 to 40	40 to 50	40
2	Dwellings and buildings of similar design and/or use	5	5 to 15	15 to 20	15
3	Structures that because of their particular sensitivity to vibration, do not correspond to those listed in Lines 1 or 2 and have intrinsic value (e.g. buildings that are under a preservation order)	3	3 to 8	8 to 10	8

3.3.2 Human comfort

Humans are sensitive to vibration such that they can detect vibration levels well below those required to cause any risk of damage to a building or its contents. Criteria to avoid annoyance are therefore more stringent than those to prevent structural damage.

Intermittent vibration

The assessment of intermittent vibration outlined in *Assessing Vibration: A Technical Guideline* (DEC, 2006) is based on Vibration Dose Values (VDVs). The VDV accumulates the vibration energy received over the day time and night time periods.

Maximum and preferred VDVs for intermittent vibration arising from construction activities are listed in Table 3-8. The VDV criteria are based on the likelihood that a person would be annoyed by the level of vibration over the entire assessment period.

Table 3-8 Preferred and maximum vibration dose values for intermittent vibration ($m/s^{1.75}$)

Location	Day time		Night time	
	Preferred	Max	Preferred	Max
Residences[1]	0.20	0.40	0.13	0.26
Offices, schools, educational institutions and places of worship	0.40	0.80	0.40	0.80
Workshops	0.80	1.60	0.80	1.60

Notes:

1. *Criteria for residences are lower than schools as people expect to be able to relax/sleep in their homes without annoyance and are generally more concerned about structural damage than would be the case within schools and offices.*

Continuous and impulsive vibration

Acceptable levels of human exposure to continuous and impulsive vibration are dependent on the time of day and the activity taking place in the occupied space. *Assessing Vibration: A Technical Guideline* provides the preferred values for continuous and impulsive vibration. These are presented in Table 3-9.

There is low probability of adverse comment or disturbance to building occupants at vibration values below the preferred values in Table 3-9. Situations exist where vibration above the preferred values can be acceptable, particularly for temporary disturbances and infrequent events of short duration. Vibration levels above those indicated in Table 3-9 may be dealt with through negotiation with the regulator of the affected community.

Table 3-9 Peak particle velocity for continuous and impulsive vibration acceleration (mm/s)

Location	Assessment period	Preferred	Maximum
		z axis	
Continuous vibration			
Residences[1]	Day Night	0.28 0.20	0.56 0.40
Offices, schools, educational institutions and places of worship	When in use	0.56	1.10
Workshops	When in use	1.10	2.20
Impulsive vibration			
Residences[1]	Day Night	8.60 2.80	17.00 5.60
Offices, schools, educational institutions and places of worship	When in use	18.00	36.0
Workshops	When in use	18.00	36.00

Notes:

1 *Criteria for residences are lower than schools as people expect to be able to relax/sleep in their homes without annoyance and are generally more concerned about structural damage than would be the case within schools and offices.*

3.4 Ground-borne noise

Vibration generated by activities such as piling may enter buildings via the ground. This may cause the floors, walls and ceilings to vibrate and to radiate noise. This noise is commonly referred to as ground-borne noise. Ground-borne noise is typically low frequency and if audible, is perceived as a ‘rumble’.

In general, ground-borne noise level values are relevant only where they are higher than the airborne noise, such as where construction works are being undertaken within a cutting which would provide shielding to airborne noise. Ground-borne noise from construction would typically be masked by airborne noise associated with construction activities and/or traffic.

The ground-borne noise management levels as outlined in the *Interim Construction Noise Guideline* are presented in Table 3-10. These levels are applicable during the evening and night-time periods only in residential properties, as the objective is to protect the amenity and sleep of people when they are at home.

Table 3-10 Recommended ground–borne noise goals for construction activities

Time	Ground-borne noise goals
Evening (6pm to 10pm)	40 dB(A) $L_{Aeq(15\ min)}$
Night-time (10pm to 7am)	35 dB(A) $L_{Aeq(15\ min)}$

3.5 Operational assessment criteria

3.5.1 Operational road traffic noise criteria – Residential receivers

Noise criteria are assigned to sensitive receivers using the Roads and Maritime's *Noise Criteria Guideline*. The *Noise Criteria Guideline* provides guidance on how to apply the *Road Noise Policy*.

The *Road Noise Policy* requires the consideration of two scenarios, the 'do minimum' option (without the proposal) and the' design option (with the proposal). The 'do minimum' option represents the scenario if the proposal was not to proceed. The design option represents the scenario if the proposal was to proceed. Each of these scenarios must be considered at two points in time, the year of opening and the design year, typically ten years after opening. For this proposal, the year 2026 has been assessed as the year of opening, and 2036 has been assessed as the design year.

The operational road traffic noise study area extends to where noise levels are dominated by other roads that are not being assessed as part of this proposal, as detailed in the *Noise Criteria Guideline*. For suburban areas this is up to a maximum distance of 600 metres from the proposal works. Residential receivers may be assigned new, redeveloped, transition zone or relative increase criteria.

Criteria are based on the road development type which is affecting the residential receiver. In some instances residential receivers may be exposed to noise from both new and redeveloped roads. Where this occurs, the proportion of noise from each road is used to establish transition zone criteria. A further check is made to prevent large increases in noise level using the relative increase criteria.

For each façade of a residential receiver the most stringent applicable criteria are used in the assessment.

Table 3-11 Road traffic noise assessment criteria for residential land use

Road category	Type of proposal/land use	Assessment criteria dB(A)	
		Day (7 am – 10 pm)	Night (10 pm – 7 am)
Freeway/ arterial/sub-arterial	Existing residences affected by noise from new freeways/arterial/sub-arterial road corridors	$L_{Aeq(15\ hr)}$ 55 (external)	$L_{Aeq(9\ hr)}$ 50 (external)
	Existing residences affected by noise from redevelopment of existing freeways/arterial/sub-arterial roads	$L_{Aeq(15\ hr)}$ 60 (external)	$L_{Aeq(9\ hr)}$ 55 (external)
	Existing residences affected by both new roads and the redevelopment of existing freeway/arterial/sub-arterial roads in a Transition Zone[1]	Between $L_{Aeq(15\ hr)}$ 55-60 (external)	Between $L_{Aeq(9\ hr)}$ 50-55 (external)
	Existing residences affected by increases in traffic noise of 12 dB(A) or more from new freeway/arterial/sub-arterial roads[2]	Between $L_{Aeq(15\ hr)}$ 42-55 (external)	Between $L_{Aeq(15\ hr)}$ 42-50 (external)

Notes:

1 *The criteria assigned to a façade depend on the proportion of noise coming from the existing road. Please see Roads and Maritimes' Noise Criteria Guideline for further information.*

2 *The criteria at each façade are determined from the existing traffic noise level plus 12 dB(A).*

3.5.1.1 Transition zone noise criteria

The *Noise Criteria Guideline* provides guidance on transition zones. Transition zones are areas where a graduation between the redeveloped and new road noise criteria applies. They ensure that a gradual change in criteria is applied to noise sensitive receivers, rather than a step change.

To determine the applicable transition zone noise criteria, the contribution from the new road segments and the redeveloped road segments are calculated at individual noise sensitive receivers. The difference in contribution defines the applicable transition zone noise criteria. Provided below in Table 3-12 is a summary of the applicable transition zone noise criteria.

Table 3-12 Transition zone noise criteria

Contribution difference dB(A)	Total noise level, dB(A)	
New road segments minus redeveloped road segments	Daytime criteria	Night-time criteria
Contribution difference ≥ +3.0	55	50
+3.0 > Contribution difference ≥ +1.5	56	51
+1.5 > Contribution difference ≥ +0.0	57	52
+0.0 > Contribution difference ≥ -1.5	58	53
-1.5 > Contribution difference ≥ -3.0	59	54
-3.0 > Contribution difference	60	55

Noise contours have been used to calculate the transition zones in accordance with the *Noise Criteria Guideline*. The transition zone noise contours are provided in Appendix E. These contours identify that due to the relatively low level of noise from the new road segment, transition zone criteria do not apply to any sensitive receivers. Accordingly, the redeveloped noise criteria are applicable to all sensitive receivers for this proposal.

3.5.2 Operational road traffic noise criteria – Non-residential sensitive receivers

The criteria for other sensitive receivers are presented in Table 3-13. For schools, places of worship and childcare facilities, the *Noise Criteria Guideline* criteria are based on internal noise levels. A conservative minimum outside-to-inside attenuation of 10 dB(A), on the basis of open windows for natural ventilation, has been assumed to allow for an external noise assessment at the other sensitive receivers. As details are not currently available to allow the building-specific façade noise reduction to be identified it is recommended that this should be investigated further at detailed design.

The noise model predicts noise levels for $L_{Aeq(15\ hr)}$ and $L_{Aeq(9\ hr)}$ periods for day and night-time respectively.

Table 3-13 Road traffic noise assessment criteria for non-residential land use

Existing sensitive land use	Assessment criteria		Additional considerations
	Day (7am – 10pm)	Night (10pm – 7am)	
1. School classrooms	$L_{Aeq(1\ hr)}$ 40 (internal)	-	In the case of buildings used for education or health care, noise level criteria for spaces other than classrooms and wards may be obtained by interpolation from the 'maximum' levels shown in Australian Standard 2107:2000 (Standards Australia 2000)

Existing sensitive land use	Assessment criteria		Additional considerations
	Day (7am – 10pm)	Night (10pm – 7am)	
2. Hospital wards	$L_{Aeq(1\ hr)}$ 35 (internal)	$L_{Aeq(1\ hr)}$ 35 (internal)	In the case of buildings used for education or health care, noise level criteria for spaces other than classrooms and wards may be obtained by interpolation from the 'maximum' levels shown in Australian Standard 2107:2000 (Standards Australia 2000)
3. Places of worship	$L_{Aeq(1\ hr)}$ 40 (internal)	$L_{Aeq(1\ hr)}$ 40 (internal)	The criteria are internal, ie the inside of a church. Areas outside the place of worship, such as a churchyard or cemetery, may also be a place of worship. Therefore, in determining appropriate criteria for such external areas, it should be established what in these areas may be affected by road traffic noise. For example, if there is a church car park between a church and the road, compliance with the internal criteria inside the church may be sufficient. If, however, there are areas between the church and the road where outdoor services may take place such as weddings and funerals, external criteria for these areas are appropriate. As issues such as speech intelligibility may be a consideration in these cases, the passive recreation criteria (see row 5 Open space (passive use) of this table) may be applied.
4. Open space (active use)	$L_{Aeq(15\ hr)}$ 60 (external)	-	Active recreation is characterised by sporting activities and activities which generate their own noise or focus for participants, making them less sensitive to external noise intrusion. Passive recreation is characterised by contemplative activities that generate little noise and where benefits are compromised by external noise intrusion, e.g. playing chess, reading. In determining whether areas are used for active or passive recreation, the type of activity that occurs in that area and its sensitivity to noise intrusion should be established. For areas where there may be a mix of passive and active recreation, e.g. school playgrounds, the more stringent criteria apply. Open space may also be used as a buffer zone for more sensitive land uses.
5. Open space (passive use)	$L_{Aeq(15\ hr)}$ 55 (external)	-	

Existing sensitive land use	Assessment criteria		Additional considerations
	Day (7am – 10pm)	Night (10pm – 7am)	
8. Child care facilities	Sleeping rooms $L_{Aeq(1\ hr)}$ 35 (internal) Indoor play areas $L_{Aeq(1\ hr)}$ 40 (internal) Outdoor play areas $L_{Aeq(1\ hr)}$ 55 (external)		Multi-purpose spaces, e.g. shared indoor play/sleeping rooms should meet the lower of the respective criteria. Measurements for sleeping rooms should be taken during designated sleeping times for the facility, or if these are not known, during the highest hourly traffic noise level during the opening hours of the facility.
9. Aged care facilities	-	-	Residential land use noise assessment criteria should be applied to these facilities.

3.5.3 Guidance for the evaluation of feasible and reasonable noise mitigation measures

Where the *Noise Criteria Guideline* criteria are exceeded, the Roads and Maritime's *Noise Mitigation Guideline* provides guidance where the provision of additional controls, such as noise barriers, architectural treatments and quieter pavements, would be considered 'feasible and reasonable'. It should be acknowledged that these considerations apply only if it can be demonstrated that all 'feasible and reasonable' traffic management and other road design opportunities for reduction of traffic noise at the source have been exhausted.

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

The *Noise Mitigation Guideline* 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 design noise level exceeds the *Noise Criteria Guideline* controlling criterion and the noise level increase due to the proposal (ie the noise predictions for the design minus the 'do minimum') is greater than 2.0 dB(A), or
- The predicted design noise level is 5 dB(A) or more above the criteria (meets or exceeds the cumulative limit) and the receiver is significantly influenced by road noise, regardless of the incremental impact of the proposal. The cumulative limit is 5 dB(A) above the *Noise Criteria Guideline* criteria. The purpose of the cumulative limit is to prevent a receiver with an existing high noise level from remaining well above the criterion if the noise level did not increase significantly relative to the 'do minimum' scenario, or
- The predicted Design noise level increase due to the proposal (ie the noise predictions for the Design minus the 'Do Minimum') is 12.0 dB(A) or more.

In addition if the noise level contribution from the road proposal is acute (daytime $L_{Aeq(15\ hr)}$ 65 dB(A) or higher, night time $L_{Aeq(9\ hr)}$ 60 dB(A) or higher) then it qualifies for consideration of noise mitigation even if noise levels are dominated by another road.

The eligibility of receivers for consideration of additional noise mitigation, such as at-property treatments, is determined before the benefit of noise mitigation such as quieter pavement and noise barriers is included. If the *Noise Criteria Guideline* criterion cannot be satisfied with quieter pavement and noise barriers, then the receiver is eligible for consideration of at-property treatment.

3.5.4 Maximum noise levels

Maximum noise levels generated by road traffic noise have the potential to cause disturbance to sleep. Although maximum noise goals are not provided in the *Road Noise Policy*, it does include a review of internal sleep arousal research. It concludes that there appears to be insufficient evidence to set new indicators for potential sleep disturbance due to road traffic noise. Nevertheless, Roads and Maritime recognises the potential impacts and requires an assessment of maximum noise levels be made where impacts may occur during the night.

Guidance for assessing maximum noise levels are provided in Practice Note iii of the *Environmental Noise Management Manual* (ENMM). The maximum noise assessment should be used as a tool to help prioritise and rank mitigation strategies, but should not be used as a decisive criterion in itself and should not be used to aid in designing the degree of mitigation required.

The assessment considers the following:

- Calculation of maximum noise levels
- The extent to which the maximum noise levels for individual vehicle pass-bys exceed the L_{Aeq} noise level for each hour of the night (ie L_{Amax} noise levels greater than 65 dB(A) where $L_{Amax} – L_{Aeq(1hr)} \geq 15$ dB(A))
- The number of times the maximum noise levels for individual vehicle pass-bys exceed the L_{Aeq} noise level for each hour of the night.

4.0 Assessment of construction noise and vibration impacts

4.1 Construction scenarios and equipment

The following works will be undertaken along the length of the proposed alignment:

- Earthworks
- Drainage
- Bridge construction
- Pavement works
- Finishing works including asphalting, line marking and signage and street furniture installation.

Table 4-1 provides a matrix summary of the works to be undertaken at ancillary facilities.

Table 4-1 Ancillary facility construction works

Construction activities	Southern connection laydown area	Army Camp Road laydown area	Waterworks Lane construction compound	Gowrie Gates construction compound	McDougalls Hill facility	Northern connection construction compound
Vegetation clearing[1]	✓					✓
Establishment of site offices, amenities and temporary infrastructure including fencing			✓	✓	✓	✓
Construction worker parking			✓	✓	✓	✓
Construction vehicle facilities (such as washdown areas and refuelling stations)			✓	✓		✓
Laydown and storage of materials	✓	✓	✓	✓		✓
Delivery of materials, plant and equipment			✓	✓		✓
Stockpiling			✓	✓		✓
Demobilisation	✓	✓	✓	✓		✓

Notes:

1. Vegetation removal at ancillary sites is likely to be minimal and take around one day to complete.

Construction equipment and associated sound power levels typically used in these work packages are identified in Table 4-2 for ancillary facility work and in Table 4-3 for alignment works. The listed sound power levels are typical values taken from data provided in:

- Australian Standard AS2436-2010, Guide to noise control on construction, demolition and maintenance sites
- UK Department for Environment, Food and Rural Affairs (DEFRA) noise database.

It has been assumed that all equipment is modern and in good working order. Noise measurements undertaken by AECOM and data provided in the DEFRA noise database indicate that L_{A1} sound power levels are typically up to 8 dB(A) above L_{Aeq} sound power levels for construction works.

During the detailed design local site conditions and changes in work practices may cause some variation in the equipment used. While the equipment may vary, other major infrastructure projects have shown that due to the conservative approach to noise predictions, received noise levels are unlikely to be appreciably higher than those predicted in this assessment.

This approach identifies adequate noise management and mitigation measures early in the proposal design.

Table 4-2 Sound power levels of typical construction plant and equipment for works at ancillary facilities

	Construction scenario	Equipment	SWL, dB(A)
1	Vegetation clearing	Chainsaws	110[1]
		Bulldozers D7	106
		Mulchers	120[2]
		Dump trucks 35T	105
		Total	**115**
2	Establishment of site offices, amenities and temporary infrastructure including fencing	Excavators 35T	100
		Backhoes 8T	97
		Cranes 100T	104
		Concrete trucks	106
		Concrete pumps	106
		Piling rigs	115[2]
		Roller/compactors	105
		Water trucks	104
		Dump trucks 35T	105
		Road trucks, low loaders for floating plant onsite	108
		Wacker plate compactor	106
		Total	**116**
3	Laydown, storage and delivery of materials and plant	Road trucks	108
		Truck mounted crane	108
		Total	**108**[3]
4	Stockpiling	Front end loader	107
		Dump trucks 35T	105
		Backhoe 8T	97
		Total	**109**

	Construction scenario	Equipment	SWL, dB(A)
5	Demobilisation	Dump trucks 35T	105
		Road trucks, low loaders for floating plant offsite	108
		Water Trucks	104
		Hand tools	94
		Cranes 100T	104
		Backhoes 8T	97
		Total	**112**

Notes:

1. *Assumed to be in operation for 50% of any 15 minute period.*
2. *Assumed to be in operation for 33% of any 15 minute period.*
3. *Assumes only one item is in operation at any time in any 15 minute period.*

Table 4-3 Sound power levels of typical construction plant and equipment for works along alignment

	Construction scenario	Equipment	SWL, dB(A)
1	Earthworks	Excavators 35T	100
		Bulldozers D7	106
		Dump trucks 35T	105
		Rollers/compactors	105
		Graders	108
		Water trucks	104
		Scrapers	108
		Trenching machine	102
		Under boring rig	105
		Total	**115**
2	Drainage	Excavators with backhoes 35T	100
		Road delivery trucks	108
		Water trucks	104
		Wacker packers	106
		Concrete trucks	106
		Total	**112**

	Construction scenario	Equipment	SWL, dB(A)
3	Bridge construction	Excavators 35T	100
		Backhoes 8T	97
		Cranes 100T	104
		Trucks with dolly for transportation of bridge beams	108
		Road delivery trucks	108
		Concrete trucks	106
		Concrete pumps	106
		Piling rigs	115[1]
		Dump trucks 35T	105
		Total	**116**
4	Pavement works	Dump trucks 35T	105
		Road delivery trucks	108
		Water trucks	104
		Concrete saws	115[1]
		Graders	108
		Roller/compacters	105
		Backhoes 8T	97
		Concrete trucks including bitumen sprayers and aggregate spreaders	106
		Kerb extrusion machine	104
		Milling machine	110
		Total	**117**
5	Finishing works	Line marking truck	103
		Asphalt pavers	105
		Cranes 100T	104
		Dump trucks 35T	105
		Road sweepers	104
		Total	**111**

Notes:

1. *Assumed to be in operation for 33% of any 15 minute period.*

4.2 Construction hours

Construction would largely be carried out during standard construction working hours in accordance with the *Interim Construction Noise Guideline*:

- Monday to Friday: 7am to 6pm
- Saturday: 8am to 1pm
- Sundays or public holidays: no work.

To minimise disruption to daily traffic and disturbance to surrounding land owners and businesses, it would be necessary to carry out some work outside of these hours. The following activities are likely to take place outside standard construction working hours:

- Construction activities within the rail corridor during rail possessions
- Delivery of construction materials such as precast bridge structures
- Intersection and tie-in activities of the bypass to existing roads
- Installation and adjustment of barriers and signage for construction zones during each construction stage
- Construction of the bridge over the New England Highway at Gowrie Gates
- Operation of construction compounds to support the above work.

Other circumstances where works may need to be undertaken outside of standard construction hours and do not require any further approval would include:

- Works which are determined to comply with the relevant Noise Management Level (NML) at the most affected sensitive receiver
- Where it is required to avoid the loss of lives, property and/or to prevent environmental harm in an emergency.

The remainder of construction activities would take place within standard construction hours. The construction activities which are likely to be noisiest at noise sensitive receivers have been considered as part of this assessment to provide a conservative approach. Construction noise levels will at times be quieter than predicted in this assessment.

4.3 Construction noise modelling and prediction

Noise levels due to construction activities have been predicted at nearby residences using SoundPLAN noise modelling software v8.0. The modelling used the ISO 9613-2 algorithm and includes ground topography, buildings and structures and representative construction noise sources. Table 4-1, Table 4-2 and Table 4-3 provide a summary of the works to be undertaken and the location of the works. Free field point receivers at 1.5 metres high were assumed, source heights are dependent on the equipment but typically two metres above ground.

It is expected that there may be differences between predicted and measured noise levels due to variations in instantaneous operating conditions, plant in operation during the measurement and also the location of the plant equipment. The acoustic shielding calculated in the model due to fixed building structures would also vary as the construction equipment moves around the site. Neutral weather conditions were assumed for all construction scenarios.

The following sections present construction noise levels at all residential receiver. Discussion regarding the impacts to any other sensitive receivers (such as schools and places of worship) is presented below the tables.

4.3.1 Activities within standard hours

The noise modelling results for standard hours of construction are provided in Table 4-4 to Table 4-10.

The tables present the noise management levels and the highest predicted construction noise levels at a noise sensitive receiver for each noise catchment area. The tables also present the number of receivers where the construction noise levels are predicted to exceed the noise management level (and to what extent) and the highly noise affected level for each noise catchment area. The predicted construction noise levels are also provided graphically in Appendix C.

It is important to consider that this assessment is representative of the worst case 15 minute period of construction activity, while the construction equipment is at the nearest location to each sensitive receiver location. The assessed scenario does not represent the ongoing day to day noise impact at noise sensitive receivers for an extended period of time.

Particularly noisy activities, such as piling and use of concrete saws, would not persist for the entire construction period. In addition, the predictions use the shortest separation distance to each sensitive receiver, however in reality separation distances would vary between plant and sensitive receivers.

For linear works (works that move along the road alignment, rather than works located at a construction ancillary facility) noise exposure at each receiver would reduce due to increases in distance loss as the works progress along the alignment.

The reported maximum noise level is for the highest noise level during that construction scenario. The reported number of receivers where noise levels are expected to exceed the noise management levels is based on the reported maximum noise level. Typically the number of sensitive receivers exceeding the noise management levels will be reduced appreciably depending instantaneous operating conditions.

The *Interim Construction Noise Guideline* states that where a construction noise impact level of greater than 75 dB(A) is predicted, a receiver is considered to be 'highly noise affected' and afforded additional consideration for mitigation. The receivers where noise levels exceed 75 dB(A) can be identified on the noise contours provided in Appendix C. The potential for highly noise affected receivers would be confirmed during detailed construction planning. Respite periods would also be considered for these receivers in accordance with the *Interim Construction Noise Guideline*.

The predictions outlined below indicate that noise levels at commercial and industrial receivers would generally remain compliant with the applicable noise management levels. This would be confirmed in more detail by the contractor in the Construction Noise and Vibration Management Plan (CNVMP).

4.3.1.1 Southern connection laydown area

Table 4-4 Southern connection laydown area – Standard hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			Highly noise affected
			1 - 10 dB(A)	11 – 20 dB(A)	> 20 dB(A)	
Vegetation removal works						
NCA1	44	66	72	4	1	0
Demobilisation						
NCA1	44	61	11	3	0	0

Noise levels from the works associated with the Southern connection laydown area would exceed the noise management levels at nearby receivers during a number of scenarios. The affected catchment area would be NCA1. Most exceedances are less than 10 dB(A), one exceedance of greater than 20 dB(A) is predicted, however these works would be very limited in duration. No residences are predicted to be highly affected.

Exceedances of up to 5 dB(A) are predicted at the Australian Christian College during the vegetation removal scenario.

4.3.1.2 Army Camp Road laydown area

Table 4-5 Army Camp Road laydown area – Standard hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			Highly noise affected
			1 – 10 dB(A)	11 – 20 dB(A)	> 20 dB(A)	
Demobilisation						
NCA1	44	49	6	0	0	0
NCA2	45	64	28	2	0	0

Noise levels from the works associated with the Army Camp Road laydown area would exceed the noise management levels at nearby receivers during the demobilisation scenario. The affected catchment areas would be NCA1 and NCA2 due to the close proximity of sensitive receivers in this area. The majority of exceedances are less than 10 dB(A). No residences are predicted to experience exceedances of greater than 20 dB(A) or be highly affected.

Exceedances of less than 5 dB(A) are predicted at Wyland Caravan Park.

4.3.1.3 Waterworks Lane construction compound

Table 4-6 Waterworks Lane construction compound – Standard hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			Highly noise affected
			1 - 10 dB(A)	11 – 20 dB(A)	> 20 dB(A)	
Site establishment						
NCA2	45	75	162	44	9	2
Stockpiling						
NCA2	45	68	77	10	2	0
Demobilisation						
NCA2	45	71	132	19	4	0

Noise levels from the works associated with the Waterworks Lane construction compound would exceed the noise management levels at nearby receivers during a number of scenarios. This work site is likely to cause the largest number of exceedances of the noise management levels. The affected catchment area would be NCA2. The majority of exceedances are less than 10 dB(A), however a number of exceedances of greater than 20 dB(A) are predicted. Up to two residences are predicted to be highly affected during the site establishment scenario.

Exceedances of less than 10 dB(A) are predicted at the Wyland Caravan Park and no exceedances are predicted at the Majestic Cinemas.

4.3.1.4 Gowrie Gates construction compound

Table 4-7 Gowrie Gates construction compound – Standard hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			Highly noise affected
			1 - 10 dB(A)	11 – 20 dB(A)	> 20 dB(A)	
Site establishment						
NCA3	46	68	173	34	2	0
NCA4	46	51	2	0	0	0
Stockpiling						
NCA3	46	61	38	6	0	0
NCA4	46	44	0	0	0	0
Demobilisation						
NCA3	46	64	75	12	0	0
NCA4	46	47	0	0	0	0

Noise levels from the works associated with the Gowrie Gates construction compound would exceed the noise management levels at nearby receivers during a number of scenarios. The affected catchment areas would be NCA3 and NCA4. The majority of exceedances are less than 10 dB(A), however a two exceedances of greater than 20 dB(A) are predicted during site establishment works. No residences are predicted to be highly affected during stockpiling activities.

No exceedances are predicted at the Country Acres Caravan Park.

4.3.1.5 McDougalls Hill facility

Table 4-8 McDougalls Hill facility – Standard hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			Highly noise affected
			1 - 10 dB(A)	11 – 20 dB(A)	> 20 dB(A)	
Site establishment						
NCA4	46	51	2	0	0	0

Noise levels from the works associated with the McDougalls Hill facility would exceed the noise management levels at 2 nearby receivers during the site establishment scenario. The affected catchment area would be NCA4. The exceedances are less than 10 dB(A). No residences are predicted to experience exceedances of greater than 10 dB(A) or be highly affected.

No non-residential noise sensitive receivers are predicted to be affected.

4.3.1.6 Northern connection construction compound

Table 4-9 Northern connection construction compound – Standard hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			Highly noise affected
			1 - 10 dB(A)	11 – 20 dB(A)	> 20 dB(A)	
Vegetation removal works						
NCA5	49	70	2	1	1	0
Site establishment						
NCA5	49	69	2	2	0	0
Stockpiling						
NCA5	49	62	1	1	0	0
Demobilisation						
NCA5	49	65	2	1	0	0

Noise levels from the works associated with the Northern connection construction compound would exceed the noise management levels at up to four nearby receivers during a number of scenarios. The affected catchment area would be NCA5. The exceedances are predicted to be less than 20 dB(A) except for at one residence. No receivers are predicted to be highly affected.

No non-residential noise sensitive receivers are predicted to be affected.

4.3.1.7 Alignment works

Table 4-10 Works along the alignment – Standard hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			Highly noise affected
			1 - 10 dB(A)	11 – 20 dB(A)	> 20 dB(A)	
Bridge construction						
NCA1	44	85	122	6	1	1
NCA2	45	85	120	21	12	6
NCA3	46	68	223	38	1	0
NCA4	46	73	5	0	1	0
NCA5	49	-	0	0	0	0
Earthworks						
NCA1	44	85	92	3	8	5
NCA2	45	71	95	10	4	0
NCA3	46	70	312	123	22	0
NCA4	46	74	1	6	2	0
NCA5	49	85	2	0	2	1
Drainage						
NCA1	44	-	0	0	0	0
NCA2	45	55	21	0	0	0
NCA3	46	73	268	83	16	0
NCA4	46	68	14	4	1	0
NCA5	49	51	1	0	0	0
Pavement works						
NCA1	44	84	205	14	7	5
NCA2	45	85	167	39	14	8
NCA3	46	74	353	146	26	0
NCA4	46	80	24	6	2	1
NCA5	49	85	1	1	2	1
Finishing works						
NCA1	44	78	30	4	5	2
NCA2	45	79	79	13	9	4
NCA3	46	68	226	56	2	0
NCA4	46	74	13	2	1	0
NCA5	49	79	2	1	1	1

Noise levels from the works associated with the alignment would exceed the NMLs at nearby receivers during a number of scenarios. The pavement works and earthworks are likely to cause the largest number of exceedances of the noise management levels. The majority of exceedances are less than

10 dB(A), however a number of exceedances of greater than 20 dB(A) are predicted. Up to 15 residences are predicted to be highly affected during these works.

Exceedances of less than 10 dB(A) are predicted at the Wyland Caravan Park.

4.3.2 Activities outside standard hours

The out of hours work construction noise modelling results are provided in Table 4-11 to Table 4-16. The results are also provided graphically in Appendix C.

4.3.2.1 Southern connection laydown area

Table 4-11 Southern connection laydown area – Out of hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			NML exceedance
			1 - 5 dB(A)	6 – 15 dB(A)	16 – 25 dB(A)	> 25 dB(A)
Laydown, storage and delivery						
NCA1	39	57	4	5	0	0

Noise levels from the works associated with the Southern connection laydown area would exceed the noise management levels at nearby receivers during the laydown works. The affected catchment area would be NCA1. The exceedances are less than 15 dB(A).

4.3.2.2 Army Camp Road laydown area

Table 4-12 Army Camp Road laydown area – Out of hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			NML exceedance
			1 - 5 dB(A)	6 – 15 dB(A)	16 – 25 dB(A)	> 25 dB(A)
Laydown, storage and delivery						
NCA1	39	45	2	0	0	0
NCA2	35	60	46	35	2	0

Noise levels from the works associated with the Army Camp Road laydown area would exceed the noise management levels at nearby receivers during the laydown works. The affected catchment areas would be NCA1 and NCA2. The majority of exceedances are less than 15 dB(A). No residences are predicted to experience exceedances of greater than 25 dB(A).

Exceedances of less than 10 dB(A) are predicted at Wyland Caravan Park.

4.3.2.3 Waterworks Lane construction compound

Table 4-13 Waterworks Lane construction compound – Out of hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			
			1 - 5 dB(A)	6 – 15 dB(A)	16 – 25 dB(A)	> 25 dB(A)
Laydown, storage and delivery						
NCA2	35	69	36	165	35	9

Noise levels from the works associated with the Waterworks Lane construction compound would exceed the noise management levels at nearby receivers during the laydown works. The affected catchment area would be NCA2. The majority of exceedances are less than 15 dB(A), however a number of exceedances of greater than 25 dB(A) are predicted.

Exceedances of less than 10 dB(A) are predicted at the Wyland Caravan Park.

4.3.2.4 Gowrie Gates construction compound

Table 4-14 Gowrie Gates construction compound – Out of hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			
			1 - 5 dB(A)	6 – 15 dB(A)	16 – 25 dB(A)	> 25 dB(A)
Laydown, storage and delivery						
NCA3	37	60	166	75	12	0
NCA4	37	43	1	1	0	0

Noise levels from the works associated with the Gowrie Gates construction compound would exceed the noise management levels at nearby receivers during the laydown works. The affected catchment areas would be NCA3 and NCA4. This work site is likely to cause the largest number of exceedances of the noise management levels. The majority of exceedances are less than 15 dB(A), and no exceedances of greater than 25 dB(A) are predicted in NCA3.

No exceedances are predicted at the Country Acres Caravan Park.

4.3.2.5 Northern connection construction compound

Table 4-15 Northern connection construction compound – Out of hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			
			1 - 5 dB(A)	6 – 15 dB(A)	16 – 25 dB(A)	> 25 dB(A)
Laydown, storage and delivery						
NCA5	36	63	2	2	1	1

Noise levels from the works associated with the Northern connection construction compound would exceed the noise management levels at up to six nearby receivers during the finishing works. The affected catchment area would be NCA5. Most of the exceedances are less than 15 dB(A). Two residences may experience exceedances more than 15 dB(A).

4.3.2.6 Alignment works

Table 4-16 Works along the alignment – Out of hours work

NCA	L_{Aeq} NML dB(A)	Maximum L_{Aeq} noise level dB(A)	NML exceedance			
			1 - 5 dB(A)	6 – 15 dB(A)	16 – 25 dB(A)	> 25 dB(A)
Bridge construction						
NCA1	39	85	103	22	3	1
NCA2	35	85	92	42	12	7
NCA3	37	68	150	98	14	0
NCA4	37	73	4	1	0	1
NCA5	36	-	0	0	0	0
Pavement works						
NCA1	39	84	163	53	5	5
NCA2	35	85	97	97	16	10
NCA3	37	74	206	251	66	2
NCA4	37	80	14	15	2	1
NCA5	36	85	0	2	1	1
Finishing works						
NCA1	39	78	21	11	3	4
NCA2	35	79	54	34	5	8
NCA3	37	68	135	129	20	0
NCA4	37	74	9	5	1	1
NCA5	36	79	2	0	1	1

Noise levels from the works associated with the alignment would exceed the noise management levels at nearby receivers during a number of scenarios. The pavement works are likely to cause the largest number of exceedances of the noise management levels. The majority of exceedances are less than 15 dB(A), however a number of exceedances of greater than 25 dB(A) are predicted. It should be noted that the majority of works along the alignment will be undertaken during standard hours, however works may be carried out outside these hours to minimise traffic and rail disruptions and to offset wet weather delays.

Exceedances of less than 5 dB(A) are predicted at the Wyland Caravan Park.

4.4 Sleep disturbance

Sleep disturbance is assessed using an $L_{A1(1\ min)}$ parameter, which is considered to be the maximum noise level excluding extraneous noise events. A sleep disturbance assessment has been undertaken for the proposed night works with the construction information available to date. The noise modelling results are provided in Table 4-17 to Table 4-22 with predicted noise levels compared with the sleep disturbance screening criteria and the awakening reaction criteria.

4.4.1.1 Southern connection laydown area

Table 4-17 Southern connection laydown area – Out of hours work – Sleep disturbance

NCA	Sleep disturbance criteria dB(A)	Maximum $L_{A1(1min)}$ noise level dB(A)	Number of Sleep disturbance exceedances	Awakening reaction
Laydown, storage and delivery				
NCA1	49	65	5	1

Exceedances of the sleep disturbance criteria have been predicted at up to five properties within NCA1 due to the laydown works. Exceedances of the awakening reaction criterion are expected at one property.

4.4.1.2 Army Camp Road laydown area

Table 4-18 Army Camp Road laydown area – Out of hours work – Sleep disturbance

NCA	Sleep disturbance criteria dB(A)	Maximum $L_{A1(1min)}$ noise level dB(A)	Number of Sleep disturbance exceedances	Awakening reaction
Laydown, storage and delivery				
NCA1	49	53	0	0
NCA2	45	68	11	1

Exceedances of the sleep disturbance criteria have been predicted at up to 11 properties within NCA1 and NCA2 due to the laydown works. One exceedance of the awakening reaction criterion is expected in NCA2.

4.4.1.3 Waterworks Lane construction compound

Table 4-19 Waterworks Lane construction compound – Out of hours work – Sleep disturbance

NCA	Sleep disturbance criteria dB(A)	Maximum $L_{A1(1min)}$ noise level dB(A)	Number of Sleep disturbance exceedances	Awakening reaction
Laydown, storage and delivery				
NCA2	45	72	155	8

Exceedances of the sleep disturbance criteria have been predicted at up to 155 properties within NCA2 due to the laydown works. Eight exceedances of the awakening reaction criterion are expected within NCA2.

4.4.1.4 Gowrie Gates construction compound

Table 4-20 Gowrie Gates construction compound – Out of hours work – Sleep disturbance

NCA	Sleep disturbance criteria dB(A)	Maximum $L_{A1(1min)}$ noise level dB(A)	Number of Sleep disturbance exceedances	Awakening reaction
Laydown, storage and delivery				
NCA3	47	60	34	0
NCA4	47	46	0	0

Exceedances of the sleep disturbance criteria have been predicted at up to 305 and 211 properties within NCA3 and NCA4 due to the laydown and finishing works respectively. Exceedances of the awakening reaction criterion are expected within NCA3.

4.4.1.5 Northern connection construction compound

Table 4-21 Northern connection construction compound – Out of hours work – Sleep disturbance

NCA	Sleep disturbance criteria dB(A)	Maximum $L_{A1(1min)}$ noise level dB(A)	Number of Sleep disturbance exceedances	Awakening reaction
Laydown, storage and delivery				
NCA5	46	66	4	1

Exceedances of the sleep disturbance criteria have been predicted at up to four properties within NCA5 due to the laydown works. One exceedance of the awakening reaction criterion is expected.

4.4.1.6 Alignment works

Table 4-22 Works along the alignment – Out of hours work – Sleep disturbance

NCA	Sleep disturbance criteria dB(A)	Maximum $L_{A1(1min)}$ noise level dB(A)	Number of Sleep disturbance exceedances	Awakening reaction
Bridge construction				
NCA1	49	92	219	7
NCA2	45	92	237	27
NCA3	47	75	354	31
NCA4	47	80	18	1
NCA5	46	-	0	0
Pavement works				
NCA1	49	90	311	10
NCA2	45	91	248	38
NCA3	47	80	631	128
NCA4	47	86	37	5
NCA5	46	91	4	3
Finishing works				
NCA1	49	80	25	6
NCA2	45	81	72	12
NCA3	47	70	224	12
NCA4	47	76	12	2
NCA5	46	81	3	2

Noise levels from the works associated with the alignment would exceed the sleep disturbance criteria at nearby receivers during a number of scenarios. The pavement and bridge construction works are likely to cause the largest number of exceedances of the sleep disturbance criterion. Exceedances of the awakening reaction criterion are expected within all NCAs at around 184 properties. As the alignment works are progressive in nature receivers will not be affected for the whole duration of construction works.

4.5 Construction road traffic noise

The numbers of construction vehicle movements have been estimated to be up to 80 light and 140 heavy vehicles per day (up to 12 per hour) during peak construction periods across all ancillary facilities. Vehicles would access the site primarily by the New England Highway. Heavy vehicles would only access the site from approved heavy vehicle routes.

The existing traffic flows (refer to Appendix D) on the New England Highway are substantially greater than the proposed construction traffic numbers (there are currently over 1,000 heavy vehicles between 7 am and 10 pm and over 300 heavy vehicles between 10pm and 7 am each day on the New England Highway). Therefore the additional traffic would have a minor impact on existing road traffic noise in the area, road traffic noise levels during construction are expected to increase by less than 2 dB(A).

To minimise the construction noise levels and reduce the risk of impacts occurring, construction traffic should be considered as part of the Construction Noise and Vibration Management Plan.

4.6 Construction vibration

4.6.1 Surface works

In order to comply with the cosmetic/structural damage and human discomfort criteria presented in section 3.3 vibration intensive works should not be undertaken within the minimum working distances presented in Table 4-23.

Table 4-23 Recommended minimum working distances for vibration intensive plant

Plant	Rating/ description	Heritage (metres)	Cosmetic damage (metres)	Human response (metres)
Vibratory roller	< 50 kN (typically 1-2t)	8	5	15
	< 100 kN (typically 2-4t)	10	6	20
	< 200 kN (typically 4-6t)	20	12	40
	< 300 kN (typically 7-13t)	25	15	100
	> 300 kN (typically 13-18t)	30	20	100
	> 300 kN (>18 t)	38	25	100
Drop hammer	3t enclosed (30kJ per blow assumed)	40	23	100
	5kJ per blow	17	10	35
Vibratory rig	50kJ per cycle	50	30	100
	10kJ per cycle	23	15	100
Pile boring	≤ 800 mm	4	2 nominal	N/A
Jack hammer	Handheld	1 nominal	Avoid contact with structure	Avoid contact with structure

Note:

1. *More stringent conditions may apply to heritage or other sensitive structures. Any heritage property would need to be considered on a case by case basis and assessed in accordance with DIN4150:3 Structural vibration - Effects of vibration on structures.*

4.6.2 Residential buildings and receivers

With the current Proposal and construction methodology it is unlikely that vibration intensive works would be undertaken within the cosmetic damage minimum working distances (up to 30 metres for vibratory pile drivers). However, this should be confirmed during the detailed detail with specific attention given to residential properties around the Putty Road and Carrington Street intersection and 36B Victoria Street, Glenridding. Where vibration intensive works are proposed within minimum working distances, vibration monitoring should be undertaken to determine site specific minimum working distances and to ensure that appropriate thresholds are not exceeded.

Vibration intensive activities during site establishment works for the Southern connection laydown area, the Waterworks Lane construction compound and the Gowrie Gates construction compound may occur within the human comfort minimum working distances at times. For the alignment works vibration intensive activities may occur within the human comfort minimum working distances during earthworks, bridge construction and pavement works. Advance notification should be given to all potentially affected receivers.

4.6.3 Heritage and other sensitive structures

Heritage and other sensitive structures (including any with Aboriginal significance) have the potential to be more sensitive to vibration than standard buildings.

The residential property ‘Bebeah’ at 4403 New England Highway and the Woolpack Inn at 3 Newington Lane, Whittingham are both heritage listed in the Local Environment Plan, however no vibration intensive works are likely to be undertaken within the minimum working distances as listed in Table 4-23.

Two culverts which form part of a bypassed rail corridor were identified during the archaeological survey. These items are unlikely to be more sensitive to vibration that the building types listed in Table 3-7. It is unlikely that vibration intensive works would be undertaken within the cosmetic damage minimum working distances. However this should be confirmed during the detailed design stage.

5.0 Assessment of operational noise impacts

5.1 Road traffic noise assessment

The assessment of road traffic noise has been completed in accordance with the *Road Noise Policy*, the *Noise Criteria Guideline* and the *Noise Mitigation Guideline*. The *Noise Criteria Guideline* and the *Noise Mitigation Guideline* provide details of the practical application of the criteria presented in the *Road Noise Policy*.

To assess the potential impact of the proposal on noise sensitive receivers, the following steps have been completed:

- Existing road traffic noise levels have been modelled with existing (2018) road traffic volumes. This model has been validated with noise measurements and road traffic surveys. This is discussed further in section 5.1.2
- Future road traffic noise levels have been modelled for the 'do minimum' (without the proposal), design scenarios for the year of opening (2026) and design year (2036). This is discussed further in section 5.1.3 and results are presented in section 5.1.4.

5.1.1 Road traffic noise modelling methodology

Road traffic noise levels were calculated using SoundPLAN v8.0 software, which implements the Calculation of Road Traffic Noise (CoRTN) algorithm. The UK Department of Transport devised the CoRTN algorithm and with suitable corrections, this method has been shown to give accurate predictions of road traffic noise under Australian conditions.

The modelling parameters which are included in the model are detailed below in Table 5-1.

Table 5-1 Modelling noise parameters

Parameter	Comment
Traffic volumes and mix	The number of vehicles using the road and the percentage of heavy vehicles. A higher percentage of heavy vehicles would increase the road traffic noise levels. The mix of heavy vehicles ie. double or triple axles would also affect the road traffic noise levels. Existing traffic volumes were obtained from traffic count data recorded at various locations along the proposed alignment. Predicted traffic volumes for the year of opening (2026) and for the design year (2036) for the 'do minimum' and design scenarios were sourced from traffic modelling undertaken by AECOM. In accordance with the Austroads vehicle classification, light vehicles are considered to be Class 1 and 2 and Heavy vehicles are Class 3 through to 12.
Traffic speeds	An increase in speed generally causes an increase in road traffic noise. Traffic speeds have been based on posted road speeds for existing roads and proposed speeds for the new ramps (60 km/h) and main carriageways (100 km/h during the daytime and 110 km/h during the night-time).
Traffic noise source heights	Road traffic noise is generally considered to generated at three main source heights: • Light vehicles: 0.5 metres. • Truck tyres and engines: 1.5 metres. • Truck exhausts: 3.6 metres. Corrections were made to the road traffic noise model to take account of the relative source contributions of the truck tyres and engines (-0.6 dB(A)) and truck exhausts (-8.6 dB(A)) compared with light vehicle sources.
Roadway gradient	Road traffic noise levels vary dependent on the gradient of the roadway compared with a flat roadway. CoRTN calculates this variation, however it does not take into account noise from heavy vehicle engine braking. According to literature, similar A-weighted noise levels would be generated

Parameter	Comment
	when heavy vehicles, with appropriately fitted OEM mufflers, use engine brakes as when under full throttle conditions. However, engine braking noise emitted from heavy vehicles without appropriate mufflers would be significantly higher than A-weighted levels emitted under full throttle conditions. Given that all heavy vehicles should be fitted with OEM mufflers (Roads and Maritime estimate 95% of trucks are) the noise levels predicted by CoRTN are considered to adequately represent typical road traffic noise levels.
Road surface	Road surface characteristics would determine the level of road/tyre interfacial noise created. DGA surfaces were modelled for all road surfaces. Corrections were applied to the road traffic noise model to account for the proposed road surfaces in accordance with direction provided by Roads and Maritime. The following corrections were applied: DGA: 0 dB(A)
Ground absorption	Road traffic noise levels reduce with increasing distance from the noise source along the ground. A ground absorption factor of 0.75 was applied.
Terrain	Natural topographical features such as hills and valleys can shield sensitive receivers from road traffic noise. These effects are taken account of in the model which incorporates one metre terrain contours.
Buildings	The height of receiver buildings in the operational study area affects the road traffic noise exposure. It can also affect the amount of acoustic shielding provided to other nearby buildings. The height of all buildings within the operational study area was determined through a ground-truthing exercise and the heights were then included in the road traffic noise model.
Noise barriers	No existing noise barriers were identified for this proposal
Facade	A correction of 2.5 dB(A) was added to all road traffic noise levels to take account of façade reflection effects in accordance with the NSW *Road Noise Policy*. Noise levels have been calculated and assessed at each façade of each sensitive receiver location. Only the noise level at the most affected façade for each receiver is presented in this report.
Road network	All existing and proposed major roads were included in the noise model. For this proposal, noise levels at sensitive receiver locations are predominantly controlled by the main alignment of the proposal roads and other arterial roads. This was verified by attended noise measurements throughout the study extent of the proposal. On this basis local roads have been excluded in the noise modelling.
Standard corrections	CoRTN provides L_{A10} road traffic noise levels. The industry standard correction of -3 dB(A) was applied to convert the L_{A10} levels to L_{Aeq} road traffic noise levels to allow assessment of the results against the *Road Noise Policy* and *Noise Criteria Guideline* criteria. An adjustment of -1.7 dB(A) has been applied to daytime and 0 dB(A) to night-time noise levels to achieve validation. Roads and Maritime requested a +1 dB(A) correction be applied to Build night-time levels to account for any uncertainties regarding future heavy vehicle mixes.

5.1.2 Validation noise model

An existing road traffic noise model was developed incorporating the existing traffic flows and alignment for validation with road traffic noise measurements. The traffic flows used in the model were provided by tube counts that were deployed concurrently with noise logging for the proposal. Noise logging charts are provided in Appendix B. Road traffic volumes are presented in Appendix D.

If it can be proven that the predicted road traffic noise levels are accurate at discrete locations across the extent of a proposal, then it is reasonable to assume that the road traffic noise levels are accurate at all modelled receivers.

Furthermore, it can be assumed that if the same road traffic noise model is updated to include the proposal design model parameters (eg including alignment, traffic flow etc), then the design noise model would predict to the same level of accuracy.

As discussed in section 5.1.1, the CoRTN algorithm was utilised to calculate road traffic noise. For a proposal corridor of 600 metres either side of the road, this algorithm has a well-documented accuracy of ±2 dB(A). If the differences between measured and predicted road traffic noise levels fall within this margin, then the model is considered to have a suitable level of accuracy for that location. Attention should be given to noise measurements that fall outside this range. Common reasons for poor validation of road traffic noise models include extraneous noise sources and poor logger placement. Although the aim during logger deployment was to minimise these issues, they may still occur.

A summary of the noise logger validation results are provided in Table 5-2 below.

Table 5-2 Noise logger validation

Noise logger	Offset, m	Daytime $L_{Aeq(15\ hr)}$, dB(A)			Night-time $L_{Aeq(9\ hr)}$, dB(A)		
		Measured	Predicted	Difference	Measured	Predicted	Difference
1	12	70.6	68.5	2.1	67.4	66.2	1.2
5	15	64.0	65.8	-1.8	62.7	63.6	-0.9
6	180	50.0	51.2	-1.2	47.5	49.3	-1.8
7	23	61.6	62.7	-1.1	59.8	60.9	-1.1
Average	-	-	-	-0.4	-	-	-0.7

The model validation presented in Table 5-2 indicates that the model is generally functioning within the CoRTN accepted accuracy of ±2 dB(A) at all logger locations. Noise logger 1 is measuring very marginally higher than 2 dB(A) i.e. just 0.1 dB(A). This is considered to be partly related to logger placement in proximity of a speed limit change from 100 km/h to 60 km/h where there is possible additional maximum noise level contribution (see section 5.1.7) associated with engine brake noise, in combination with other extraneous noise associated with diesel coal train movements along the nearby railway line. Otherwise all other differences between measured and predicted noise levels are within ±2 dB(A).

It should be noted that although an adjustment of -1.7 dB(A) has been used for daytime noise levels, this has not been incorporated during the night-time period in the modelling. Given the validation results in Table 5-2 and the fact that it is generally preferable to have a slightly conservative noise model, this approach is considered appropriate. A slightly conservative noise model means that noise mitigation measures are not likely to be underestimated. This approach has been implemented successfully across other projects throughout NSW ensuring a greater degree of modelling accuracy.

5.1.3 Noise modelling scenarios

As previously noted the *Road Noise Policy* requires the assessment of road traffic noise at the year of opening and at the design year. To determine the appropriate noise mitigation, only results from the more stringent year (for each receiver) have been discussed within this report. For each result presented, the applicable period is also provided. In Appendix F the predicted road traffic noise levels with the recommended noise mitigation have been presented for all operational scenarios.

Noise levels for both the daytime and night-time periods have been assessed. The assessed situations are:

- **'Do Minimum' –**This scenario is assessed for both the year of opening (2026) and the design year (2036) and incorporates the existing alignment and traffic flows for the applicable year. All major existing arterial roads have been included in the noise modelling. It represents the design if the proposal was not to be built. The *Road Noise Policy*, *Noise Criteria Guideline*, and *Noise Mitigation Guideline* refer to this as the 'No Build' scenario.

  It is called 'Do Minimum' rather than Do Nothing as it assumes that ongoing improvements would be made to the broader road and public transport network including some new infrastructure and intersection improvements to improve capacity and cater for traffic growth.

- **Design** – These scenarios incorporate the proposal design alignment, including the ramps and all existing major arterial roads. The *Road Noise Policy*, *Noise Criteria Guideline*, and *Noise Mitigation Guideline* refer to this as the 'Build' scenario.

  The detailed scenarios which have been assessed include:

  - Year 2026 'Do Minimum' scenario
  - Year 2026 Design scenario
  - Year 2036 'Do Minimum' scenario
  - Year 2036 Design scenario

The noise mitigation requirements have been assessed based on the most stringent scenario for each noise sensitive receiver. Generally noise sensitive receivers are most noise affected during the 2036 Design scenario. To ensure all receivers are considered each one has been assessed for all scenarios and receivers reported if the noise levels exceed the criteria.

5.1.4 Noise modelling results

Noise levels have been predicted for each assessment scenario across the extent of the proposal. Detailed noise prediction results are provided in Appendix F. Road traffic noise contours maps are presented in Appendix G.

Considering the impacts in both Year 2026 and Year 2036 during the daytime and night-time periods, the greatest impacts were identified during Year 2036 and are summarised as follows:

- Road traffic noise levels are predicted to exceed the L_{Aeq} noise criterion at a total of 316 sensitive receivers
- Of these 316 noise sensitive receivers:
  - Noise levels are predicted to increase by more than 2 dB(A) at 252 sensitive receivers
  - Noise levels are predicted to exceed the cumulative limit at 19 sensitive receivers. (ie ≥ $L_{Aeq(15\ hr)}$ or $L_{Aeq(9\ hr)}$ noise criterion + 5 dB(A))
  - Noise levels are predicted to exceed the relative increase criterion at 28 sensitive receivers (the difference between 'do minimum' and 'design' noise levels is ≥ 12 dB(A))
  - One receiver has been identified as being acute (i.e. the proposal contributes less than 2.0 dB(A) to the overall level and noise levels are equal to or greater than $L_{Aeq(15\ hr)}$ 65 dB(A) or $L_{Aeq(9\ hr)}$ 60 dB(A)
- 299 sensitive receivers are considered to be eligible for the consideration of feasible and reasonable noise mitigation measures.

5.1.5 Noise barrier assessment

A noise barrier assessment has been undertaken in accordance with *Road Noise Policy* for road traffic noise barriers close to the proposal. The assessment considers incremental increases in barrier height (0 metres to eight metres in 0.5 m increments).

A comparison of noise reductions for a range of barrier heights has been carried out for the residences within 6 precincts (as shown in Appendix H).

The resultant design noise barrier heights and lengths for each of the six precincts are shown below in Table 5-3.

Table 5-3 Design noise barrier heights

Precinct	Height (m)	Length (m)
1	3.0	700
2	3.0	880
3	3.5	950
4	3.5	540
5	3.5	370
6	3.5	720

The Year 2026 and Year 2036 design scenarios have been reassessed including the design noise barriers discussed in Table 5-3.

Noise levels have been predicted for each assessment scenario across the extent of the proposal. Detailed noise prediction results are provided in Appendix F. Road traffic noise contours maps are presented in Appendix G.

Considering the impacts in both Year 2026 and Year 2036 during the daytime and night-time periods with the noise barriers as detailed above constructed the anticipated impacts are summarised as follows:

- Road traffic noise levels are predicted to exceed the L_{Aeq} noise criterion at a total of 93 sensitive receivers
- Of these 93 noise sensitive receivers:
  - Noise levels are predicted to increase by more than 2 dB(A) at 61 sensitive receivers
  - Noise levels are predicted to exceed the cumulative limit at 6 sensitive receivers. (ie ≥ $L_{Aeq(15\ hr)}$ or $L_{Aeq(9\ hr)}$ noise criterion + 5 dB(A))
  - Noise levels are predicted to exceed the relative increase criterion at 22 sensitive receivers (the difference between 'no build' and 'build' noise levels is ≥ 12 dB(A))
  - One receiver has been identified as being acute (ie the proposal contributes less than 2.0 dB(A) to the overall level and noise levels are equal to or greater than $L_{Aeq(15\ hr)}$ 65 dB(A) or $L_{Aeq(9\ hr)}$ 60 dB(A)
- 89 sensitive receivers are considered to be eligible for the consideration of feasible and reasonable noise mitigation measures.

As discussed in section 3.5.3, a sensitive receiver would be considered eligible for the consideration of noise mitigation where:

- The predicted design noise level exceeds the *Noise Criteria Guideline* controlling criterion and the noise level increase due to the proposal (ie the noise predictions for the 'Design' minus the 'Do Minimum') is greater than 2.0 dB(A), or
- The predicted 'Design' noise level is 5 dB(A) or more above the criteria (exceeds the cumulative limit) and the receiver is significantly influenced by road noise, regardless of the incremental impact of the proposal, or
- The predicted Design noise level increase due to the proposal (ie the noise predictions for the Design minus the 'Do Minimum') is 12.0 dB(A) or greater, or

- The noise level contribution from the road proposal is acute (daytime $L_{Aeq(15\ hr)}$ 65 dB(A) or higher, or night time $L_{Aeq(9\ hr)}$ 60 dB(A) or higher) then it qualifies for consideration of noise mitigation even if noise levels are dominated by another road.

5.1.6 Noise sensitive receivers eligible for consideration of additional noise mitigation

Provided below is a summary of all sensitive receivers where road traffic noise levels exceed the applicable noise criteria, assuming the noise barriers detailed in section 5.1.5 are constructed. Recommended noise mitigation measures for sensitive receivers are considered further in section 6.0. Unless otherwise noted the noise levels presented are for the most affected façade.

Table 5-4 Receivers eligible for consideration of additional mitigation measures

ID	Address	Use	Scenario	$L_{Aeq(period)}$, dB(A)				Reason for eligibility
				Criteria	'Do minimum'	Design	Change	
1049	3 Newington Lane Whittingham	Residential	DY Night	50	63.5	62.2	-1.3	Exceeds cumulative noise limit
1051	4339 New England Highway Whittingham	Residential	DY Night	50	53.6	56.4	2.8	Increase > 2dB
1083	4403 New England Highway Singleton	Residential	DY Night	50	66.4	60.0	-6.4	Exceeds cumulative noise limit
1235	35b Waddells Lane Whittingham	Residential	DY Night	50	48.4	59.1	10.7	Increase > 2dB
1340	16 Ellen Avenue Singleton	Residential	DY Night	50	47.4	50.5	3.1	Increase > 2dB
1361	35b Waddells Lane Singleton	Residential	DY Night	50	45.3	53.2	7.9	Increase > 2dB
1428	15 Ada Street Singleton	Residential	DY Night	50	41.2	50.0	8.8	Relative Increase > 12dB
1428	15 Ada Street Singleton*	Residential	DY Night	50	35.5	48.2	12.7	
1455	1 Ada Street Singleton	Residential	DY Night	50	42.1	48.2	6.1	Relative Increase > 12dB
1455	1 Ada Street Singleton*	Residential	DY Night	50	33.9	45.9	12.0	
1476	1 Renshaw Avenue Singleton	Residential	DY Night	50	40.2	48.2	8.0	Relative Increase > 12dB
1476	1 Renshaw Avenue Singleton*	Residential	DY Night	50	32.3	44.8	12.5	
1485	3 Renshaw Avenue Singleton	Residential	DY Night	50	39.3	48.0	8.7	Relative Increase > 12dB
1485	3 Renshaw Avenue Singleton*	Residential	DY Night	50	32.2	44.5	12.3	
1501	36a Victoria Street Glenridding	Residential	DY Night	50	40.2	51.0	10.8	Increase > 2dB
1572	55 Church Street Glenridding	Residential	DY Night	50	38.3	49.0	10.7	Relative Increase > 12dB
1572	55 Church Street Glenridding*	Residential	DY Night	50	31.3	45.1	13.8	
1597	30 Carrington Street Glenridding	Residential	DY Night	50	36.8	49.4	12.6	Relative Increase > 12dB
1599	27 Victoria Street Glenridding	Residential	DY Night	50	33.2	45.7	12.5	Relative Increase > 12dB
1601	26 Victoria Street Glenridding	Residential	DY Night	50	36.7	47.3	10.6	Relative Increase > 12dB
1601	26 Victoria Street Glenridding*	Residential	DY Night	50	31.8	44.7	12.9	
1626	48 Army Camp Road Glenridding	Residential	DY Night	50	43.4	52.3	8.9	Increase > 2dB
1633	13 Crown Street Glenridding	Residential	DY Night	50	40.1	50.6	10.5	Increase > 2dB
1685	13 Carrington Street Glenridding	Residential	DY Night	50	44.5	50.9	6.4	Increase > 2dB
1690	75 Putty Road Glenridding	Residential	DY Night	50	58.4	60.9	2.5	Increase > 2dB
1693	32 Glenridding Road Glenridding	Residential	DY Night	50	53.5	61.3	7.8	Increase > 2dB

ID	Address	Use	Scenario	$L_{Aeq(period)}$, dB(A)				Reason for eligibility
				Criteria	'Do minimum'	Design	Change	
1695	10 Carrington Street Glenridding	Residential	DY Night	50	43.9	50.6	6.7	Increase > 2dB
1698	7 Carrington Street Glenridding	Residential	DY Night	50	43.0	50.6	7.6	Increase > 2dB
1701	8 Carrington Street Glenridding	Residential	DY Night	50	44.4	51.7	7.3	Increase > 2dB
1703	5 Carrington Street Glenridding	Residential	DY Night	50	45.6	51.4	5.8	Increase > 2dB
1706	6 Carrington Street Glenridding	Residential	DY Night	50	47.3	52.4	5.1	Increase > 2dB
1708	3 Carrington Street Glenridding	Residential	DY Night	50	51.5	53.8	2.3	Increase > 2dB
1739	76 Putty Road Glenridding	Residential	DY Night	50	40.4	52.6	12.2	Increase > 2dB
1742	8 Glenridding Road Glenridding	Residential	DY Night	50	51.1	54.8	3.7	Increase > 2dB
1758	2 Glenridding Road Glenridding	Residential	DY Night	50	49.2	51.7	2.5	Increase > 2dB
1763	9 Glenridding Road Glenridding	Residential	DY Night	50	56.5	57.9	1.4	Exceeds cumulative noise limit
1767	23 Glenridding Road Glenridding	Residential	DY Night	50	42.7	54.8	12.1	Increase > 2dB
1896	11 Mary Street Singleton	Residential	DY Night	50	50.2	52.5	2.3	Increase > 2dB
1900	13 Mary Street Singleton	Residential	DY Night	50	48.8	52.1	3.3	Increase > 2dB
1931	48 Simpson Terrace Darlington	Residential	DY Night	50	38.0	54.9	16.9	Increase > 2dB
1932	2 Noble Close Darlington	Residential	DY Night	50	38.1	55.0	16.9	Increase > 2dB
1933	3 Noble Close Darlington	Residential	DY Night	50	41.1	56.4	15.3	Increase > 2dB
1934	46 Simpson Terrace Darlington	Residential	DY Night	50	38.5	51.3	12.8	Increase > 2dB
1935	4 Noble Close Darlington	Residential	DY Night	50	43.1	53.7	10.6	Increase > 2dB
1936	6 Noble Close Darlington	Residential	DY Night	50	40.7	50.2	9.5	Relative Increase > 12dB
1936	6 Noble Close Darlington*	Residential	DY Night	50	37.5	49.9	12.4	
1937	5 Noble Close Darlington	Residential	DY Night	50	42.8	52.4	9.6	Increase > 2dB
1938	44 Simpson Terrace Darlington	Residential	DY Night	50	37.3	49.8	12.5	Relative Increase > 12dB
1940	3 Sever Close Darlington	Residential	DY Night	50	39.1	49.8	10.7	Relative Increase > 12dB
1940	3 Sever Close Darlington*	Residential	DY Night	50	35.4	49.4	14.0	
1941	2 Sever Close Darlington	Residential	DY Night	50	42.3	49.4	7.1	Relative Increase > 12dB
1941	2 Sever Close Darlington*	Residential	DY Night	50	35.0	47.8	12.8	
1942	4 Sever Close Darlington	Residential	DY Night	50	42.6	52.4	9.8	Increase > 2dB

ID	Address	Use	Scenario	$L_{Aeq(period)}$, dB(A)				Reason for eligibility
				Criteria	'Do minimum'	Design	Change	
1943	40 Simpson Terrace Darlington	Residential	DY Night	50	36.9	49.1	12.2	Relative Increase > 12dB
1944	5 Sever Close Darlington	Residential	DY Night	50	42.5	51.8	9.3	Increase > 2dB
1947	6 Sever Close Darlington	Residential	DY Night	50	42.2	49.9	7.7	Relative Increase > 12dB
1947	6 Sever Close Darlington*	Residential	DY Night	50	35.3	47.5	12.2	
1950	3 Button Close Darlington	Residential	DY Night	50	39.0	46.5	7.5	Relative Increase > 12dB
1950	3 Button Close Darlington*	Residential	DY Night	50	32.6	45.6	13.0	
1951	2 Button Close Darlington	Residential	DY Night	50	37.1	48.4	11.3	Relative Increase > 12dB
1951	2 Button Close Darlington*	Residential	DY Night	50	32.3	46.0	13.7	
1952	4 Button Close Darlington	Residential	DY Night	50	38.1	47.7	9.6	Relative Increase > 12dB
1952	4 Button Close Darlington*	Residential	DY Night	50	34.9	47.5	12.6	
1955	9 Button Close Darlington	Residential	DY Night	50	37.3	47.5	10.2	Relative Increase > 12dB
1955	9 Button Close Darlington*	Residential	DY Night	50	32.3	45.0	12.7	
1957	6 Button Close Darlington	Residential	DY Night	50	42.4	50.4	8.0	Relative Increase > 12dB
1957	6 Button Close Darlington*	Residential	DY Night	50	32.9	47.1	14.2	
1958	8 Button Close Darlington	Residential	DY Night	50	39.8	47.6	7.8	Relative Increase > 12dB
1958	8 Button Close Darlington*	Residential	DY Night	50	32.6	45.5	12.9	
1959	7 Button Close Darlington	Residential	DY Night	50	42.4	49.6	7.2	Relative Increase > 12dB
1959	7 Button Close Darlington*	Residential	DY Night	50	33.0	45.4	12.4	
1968	8 Elliot Close Darlington	Residential	DY Night	50	35.7	48.8	13.1	Relative Increase > 12dB
1974	9 Elliot Close Darlington	Residential	DY Night	50	42.6	50.7	8.1	Increase > 2dB
1982	11 Elliot Close Darlington	Residential	DY Night	50	43.7	50.8	7.1	Increase > 2dB
1988	12 Elliot Close Darlington	Residential	DY Night	50	44.4	50.9	6.5	Increase > 2dB
1995	13 Elliot Close Darlington	Residential	DY Night	50	44.7	50.5	5.8	Increase > 2dB
2003	14 Elliot Close Darlington	Residential	DY Night	50	47.2	52.4	5.2	Increase > 2dB
2007	15 Elliot Close Darlington	Residential	DY Night	50	45.9	50.7	4.8	Increase > 2dB
2040	6 Simpson Terrace Darlington	Residential	DY Night	50	49.1	52.3	3.2	Increase > 2dB
2042	6 Simpson Terrace Darlington	Residential	DY Night	50	49.2	52.4	3.2	Increase > 2dB
2047	6 Simpson Terrace Darlington	Residential	DY Night	50	49.3	52.5	3.2	Increase > 2dB

ID	Address	Use	Scenario	$L_{Aeq(period)}$, dB(A)				Reason for eligibility
				Criteria	'Do minimum'	Design	Change	
2051	6 Simpson Terrace Darlington	Residential	DY Night	50	49.4	52.4	3.0	Increase > 2dB
2056	6 Simpson Terrace Darlington	Residential	DY Night	50	49.7	52.5	2.8	Increase > 2dB
2058	6 Simpson Terrace Darlington	Residential	DY Night	50	49.6	52.4	2.8	Increase > 2dB
2061	6 Simpson Terrace Darlington	Residential	DY Night	50	49.7	52.4	2.7	Increase > 2dB
2072	2 Simpson Terrace Darlington	Residential	DY Night	50	50.4	52.5	2.1	Increase > 2dB
2152	4 Blaxland Avenue Singleton Heights	Residential	DY Night	50	49.4	52.1	2.7	Increase > 2dB
2158	37 White Avenue Singleton Heights	Residential	DY Night	50	47.9	50.8	2.9	Increase > 2dB
2165	37 White Avenue Singleton Heights	Residential	DY Night	50	47.6	50.8	3.2	Increase > 2dB
2174	10 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.4	50.6	3.2	Increase > 2dB
2175	38 Maison Dieu Road Mcdougalls Hill	Residential	DY Night	50	56.0	55.3	-0.7	Exceeds cumulative noise limit
2177	3 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.3	50.8	3.5	Increase > 2dB
2186	12 Blaxland Avenue Singleton Heights	Residential	DY Night	50	48.5	51.1	2.6	Increase > 2dB
2192	14 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.6	51.0	3.4	Increase > 2dB
2196	5 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.2	50.6	3.4	Increase > 2dB
2210	16 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.5	51.1	3.6	Increase > 2dB
2211	7 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.6	50.5	2.9	Increase > 2dB
2217	18 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.3	51.1	3.8	Increase > 2dB
2240	22 Blaxland Avenue Singleton Heights	Residential	DY Night	50	46.9	50.8	3.9	Increase > 2dB
2328	34 Blaxland Avenue Singleton Heights	Residential	DY Night	50	47.8	50.5	2.7	Increase > 2dB

ID	Address	Use	Scenario	$L_{Aeq(period)}$, dB(A)				Reason for eligibility
				Criteria	'Do minimum'	Design	Change	
2569	7 Mcdougall Close Mcdougalls Hill	Residential	DY Night	50	49.2	51.6	2.4	Increase > 2dB
2662	2 Simpson Terrace Darlington	Residential	DY Night	50	50.4	52.6	2.2	Increase > 2dB
2679	5077 New England Highway Rixs Creek	Residential	DY Night	55	59.8	59.6	-0.2	Exceeds cumulative noise limit
2766	5022 New England Highway Mcdougalls Hill	Residential	DY Night	50	50.2	52.5	2.3	Increase > 2dB
2130	4862 New England Highway Mcdougalls Hill	Residential	DY Night	50	62.1	62.4	0.3	Exceeds cumulative noise limit & acute
2229	4864 New England Highway Mcdougalls Hill	Residential	DY Night	50	57.0	59.4	2.4	Increase > 2dB

Notes:

1. *Noise levels presented are for the façade with the greatest increase where the relative increase criterion has been triggered.*

5.1.7 Maximum noise level assessment

The *Road Noise Policy* includes a review of international sleep arousal research and concludes that at the current level of understanding, it is not possible to establish absolute noise level criteria that would correlate to an acceptable level of sleep disturbance.

The *Environmental Noise Management Manual* considers a maximum noise level event to be defined as a vehicle pass-by event for which the $L_{A,max}$ noise level is equal to or greater than 15 dB(A) above the $L_{Aeq(1hr)}$. Maximum noise level events have been considered at 4294 New England Highway, Whittingham and 4850 New England Highway, McDougalls Hill. These location are considered to be representative of receivers along the future proposed alignment.

Maximum noise levels are generally dependent on truck engine braking events, however loud exhausts and horns may also contribute. A truck may engage its engine brakes at any location on the proposal alignment, however the likelihood is dependent on a range of factors, such as road gradient, proximity to junctions, truck condition and individual driver behaviour. Maximum noise events are less likely further away from the alignment, as maximum noise levels decrease at a faster rate with distance than is the case for L_{Aeq} road traffic noise levels.

Although it is not possible to state that any given location is generally representative of the whole proposal, this location is considered to present the typical worst case scenario.

Provided below in Figure 5-1 is a summary of the typical and maximum number of maximum noise level events recorded over the measurement period at 4294 New England Highway, Whittingham. Maximum noise levels were typically as high as 85 to 92 dB(A). While the area is controlled by road traffic noise, it cannot be confirmed that noise associated with each maximum noise level is attributable to road traffic.

Provided below in Figure 5-2 is a summary of the typical and maximum number of maximum noise level events recorded over the measurement period at 4850 New England Highway, McDougalls Hill. Maximum noise levels were typically as high as 78 to 94 dB(A). While the area is controlled by road traffic noise, it cannot be confirmed that noise associated with each maximum noise level is attributable to road traffic.

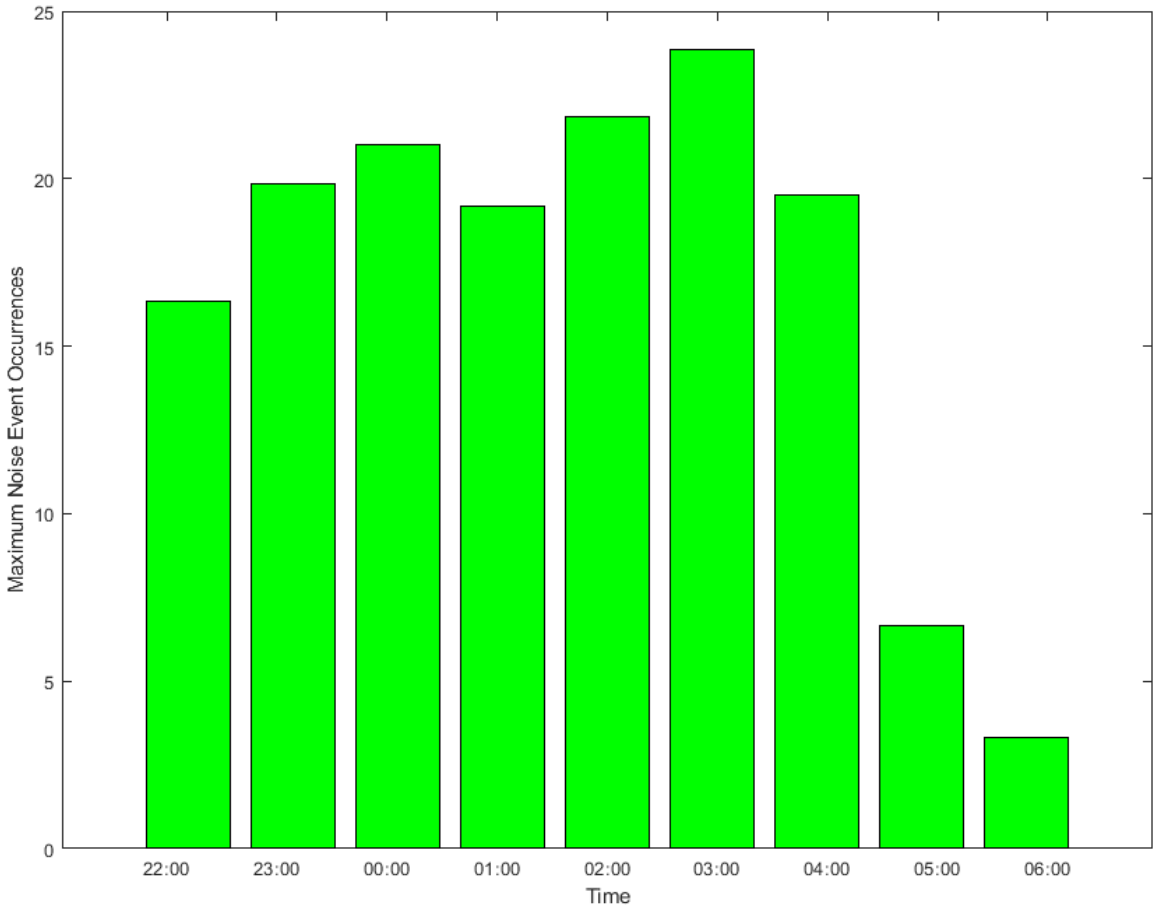


Figure 5-1 Typical and maximum noise level events – 4294 New England Highway, Whittingham

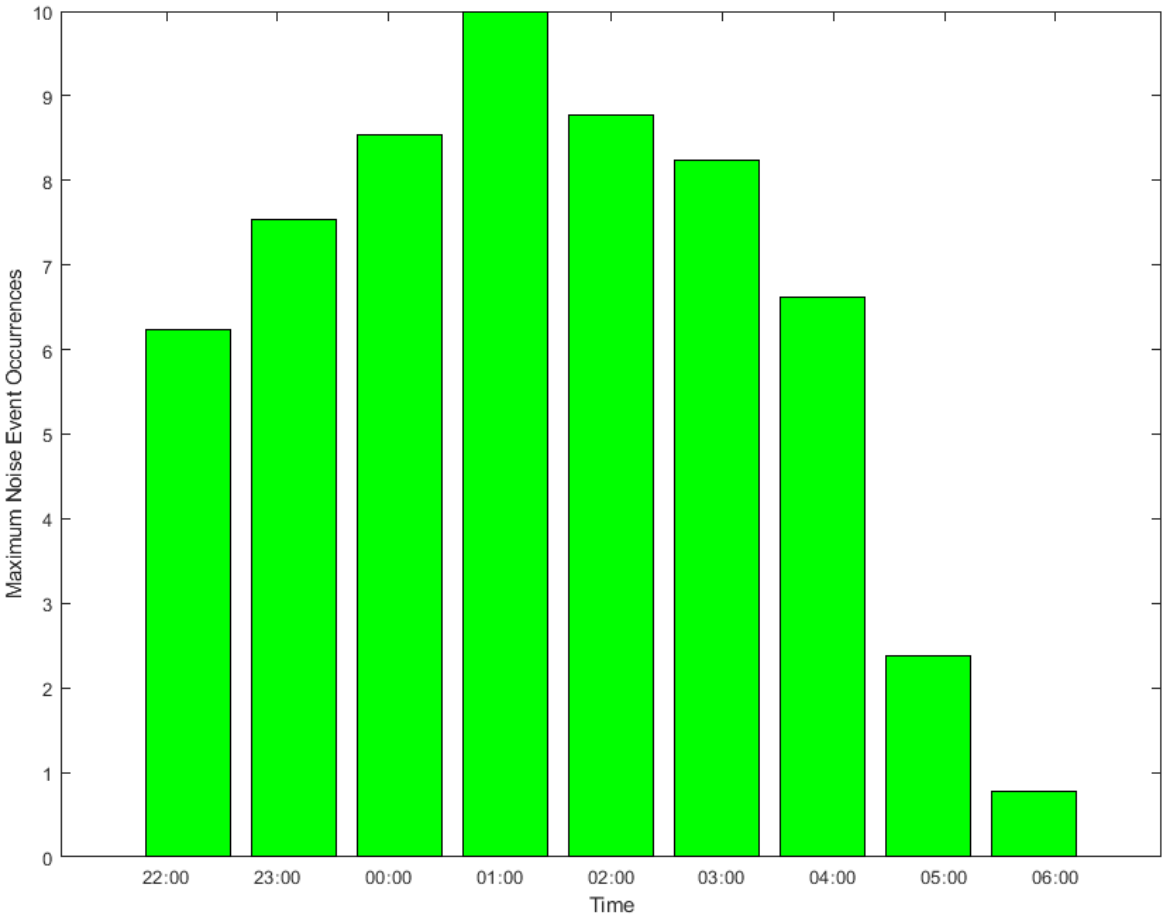


Figure 5-2 Typical and maximum noise level events – 5066 New England Highway, Rixs Creek

The maximum noise level events illustrated in Figure 5-1 and Figure 5-2 identify that the area is already exposed to maximum noise level events that have the potential for awakening reactions.

One of the main goals of this proposal is to reduce heavy vehicle traffic through Singleton town centre. It is expected that the maximum noise events would decrease in both number and duration due reduced congestion, better alignments and gradients. Maximum noise events are most likely to occur between Gowrie Gates and the Northern Connection.

6.0 Management of impacts

6.1 Management of construction impacts

The construction noise and vibration assessment presented in Chapter 4.0 detailed a number of exceedances of the noise management levels due to this proposal. These were predicted as a result of various construction activities. A number of exceedances of the 'highly noise affected' criteria have also been predicted within the study area. As a result of these exceedances, noise and vibration safeguards have been identified in Table 6-1 below.

The Roads and Maritime's *Construction Noise and Vibration Guideline* lists a number of standard actions and mitigation measures which should be implemented on all construction projects. The strategies are centred on management, training and the attenuation of noise at the source. These are documented in Appendix B of the *Construction Noise and Vibration Guideline*. The *Construction Noise and Vibration Guideline* also details additional noise mitigation measures to be implemented after all standard noise mitigation measures are applied and where the noise levels are still exceeding the noise management levels. These are documented in Appendix C of the *Construction Noise and Vibration Guideline*. Both standard and additional mitigation measures have been included in Table 6-1.

6.2 Management of operational impacts

Where feasible and reasonable, road traffic noise levels from the operation of redeveloped and new roads should be reduced to meet the noise criteria in accordance with Roads and Maritime procedures. In many instances this may be achievable only through long-term strategies such as improved planning, design and construction of adjoining land-use developments, reduced vehicle emission levels through new vehicle standards and regulation of in-service vehicles, greater use of public transport, and alternative methods of freight haulage.

The hierarchy of noise mitigation is firstly to consider at-source noise mitigation measures such as road design and traffic management, then the use of quieter pavements. If these measures cannot be designed to meet the noise criteria the use of 'in corridor' mitigation measures should be considered, which are generally noise barriers and mounds. Finally, if the applicable noise criteria cannot be met by using a combination of all these methods, at-receiver mitigation measures can be considered such as architectural treatments and property boundary walls.

Operational noise safeguards are presented in Table 6-1.

6.3 Noise and vibration safeguards

Table 6-1 Receivers eligible for consideration of additional mitigation measures

Impact	Environmental safeguards	Responsibility	Timing
Noise and vibration	A Construction Noise and Vibration Management Plan (CNVMP) would be prepared as part of the Construction Environmental Management Plan. The CNVMP would identify: • All potential significant noise and vibration generating activities associated with the activity • noise and vibration sensitive receivers • measures to be implemented during construction to minimise noise and vibration impacts, such as restrictions on working hours, staging, placement and operation of work compounds, parking and storage areas, temporary noise barriers, haul road maintenance and controlling the location and use of vibration generating equipment. • feasible and reasonable mitigation measures to be implemented, taking into account the Roads and Martitime's Beyond the Pavement urban design policy, process and principles. • a monitoring program to assess performance against relevant noise and vibration criteria • arrangements for consultation with affected neighbours and sensitive receivers, including notification and complaint handling procedures • an out of hours works procedure, including approval process and proposed mitigation measures.	Contractor	Pre-construction and construction
Noise and vibration	All sensitive receivers likely to be affected will be notified at least five days prior to commencement of any works associated with the scenario that may have an adverse noise or vibration impact. The notification will include details of: • the project • construction period and construction hours • contact information for project management staff • complaint and incident reporting and how to obtain further information.	Contractor	Construction

Impact	Environmental safeguards	Responsibility	Timing
Noise and vibration	All employees, contractors and subcontractors are to receive an environmental induction. The induction must at least include: • all relevant project specific and standard noise and vibration mitigation measures • relevant licence and approval conditions • permissible hours of work • any limitations on high noise generating activities • location of nearest sensitive receivers • construction employee parking areas • designated loading/unloading areas and procedures • site opening/closing times (including deliveries) • environmental incident procedures.	Contractor	Construction
Noise and vibration	Where feasible and reasonable, construction should be carried out during the standard daytime working hours. Works generating high noise and/or vibration levels should be scheduled during less sensive time periods. Any variations to the standard construction hours will follow the approach in RTA Environmental Fact Sheets – Noise Management and Night Works, including consultation with the affected local community.	o	Construction
Noise and vibration	• Where feasible and reasonable, high noise generating activities (75 dB(A) L_{Aeq} at receiver) be used during standard construction hours and in continuous blocks of no more than 3 hours with at least one hour respite between each block of work generating high noise impact, where the location of the work is likely to impact the same receiver.	Contractor	Construction
Noise	Where high noise generating activities (75 dB(A) L_{Aeq} at receiver) are required out of hours the following will be implemented: • The equipment will be used prior to 10pm where feasible and reasonable • Where the above cannot be achieved the equipment will be used prior to midnight where feasible and reasonable • It is not proposed to apply a three hour on and a one hour off respite approach in an effort to ensure that the use of such equipment is completed as early in the night as possible.		
Noise	Where properties have been identified for architectural treatment and these properties would be impacted by noise from construction works, Roads and Maritime would consult with those property owners on the early installation of treatments to provide noise mitigation during the construction of the proposal.	Roads and Maritime	Pre-construction

Impact	Environmental safeguards	Responsibility	Timing
Noise	The following will be implemented for deliveries to and from the proposal: • Loading and unloading of materials/deliveries is to occur as far as possible from sensitive receivers. • Dedicated loading/unloading areas to be shielded if close to sensitive receivers. • Delivery vehicles to be fitted with straps rather than chains for unloading, wherever possible Construction site would be arranged to limit the need for reversing associated with regular/repeatable movements.	Contractor	Construction
Noise	Non-tonal reversing beepers (or an equivalent mechanism) must be fitted and used on all construction vehicles and mobile plant regularly used on site and for any out of hours work.	Contractor	Construction
Noise and vibration	The noise associated with the operation of construction ancillary facilities would primarily result from the operation of fixed and mobile plant and truck movements. Consideration would be given to the layout of the site in order to maximise distance and shielding to nearby receivers.	Contractor	Pre-construction and construction
Noise	Where practicable, work should be scheduled to avoid major student examination periods such as before or during Higher School Certificate and at the end of higher education semesters.	Contractor	Construction
Noise	At compound sites consider positioning of site sheds, earth bunds and hoarding to maximise shielding to residential receivers.	Contractor	Construction
Noise	In circumstances where the noise levels are predicted to exceed construction noise management levels after implementation of the general work practices, additional mitigation measures are required. These measures include the following: • Monitoring • Notification (letterbox drop or equivalent) • Specific notifications • Phone calls • Individual briefings • Respite Offers • Respite Periods • Duration Respite • Alternative Accommodation.	Contractor	Construction
Vibration	Vibration intensive equipment size would be selected to avoid working within the structural damage minimum working distances The use of less vibration intensive methods of construction or equipment would be considered where feasible and reasonable.	Contractor	Construction
Vibration	Where the use of vibration intensive equipment within	Contractor	Pre-

Impact	Environmental safeguards	Responsibility	Timing
	the relevant minimum working distances cannot be avoided, prior to the commencement of vibration intensive work, a detailed inspection will be carried out and a written and photographic report prepared to document the condition of buildings and structures within the minimum working distances. A copy of the report will be provided to the relevant land owner or land manager.		Construction
Noise	To confirm that the noise levels targets are achieved, a post-construction noise monitoring program will be carried out in accordance with the Noise Mitgation Guideline (Roads and Maritime 2014d).	Contractor	Operation

6.4 Additional mitigation measures

Details of the additional noise mitigation measures presented in Appendix C of the *Construction Noise and Vibration Guideline* are outlined below in Table 6-2.

Table 6-2 Triggers for Additional Mitigation Measures – Airborne Noise (Roads and Maritime Construction noise and Vibration Guideline 2016 Table C.1)

Perception	dB(A) above noise management levels	Additional mitigation measures type[1, 2]
All hours		
> 75 dB(A)	-	N, V, PC, RO
Standard hours[3]		
Noticeable	0	-
Clearly audible	1 - 10	-
Moderately intrusive	11 – 20	N,V
Highly intrusive	> 20	N,V
OOHW Period 1[4]		
Noticeable	1 - 5	-
Clearly audible	6 - 15	N, R1, DR
Moderately intrusive	16 – 25	V, N, R1, DR
Highly intrusive	> 25	V, IB, N, R1, DR, PC, SN
OOHW Period 2[5]		
Noticeable	1 - 5	N
Clearly audible	6 - 15	V, N, R2, DR
Moderately intrusive	16 – 25	V, IB, N, PC, SN, R2, DR
Highly intrusive	> 25	AA, V, IB, N, PC, SN, R2, DR

Notes:

1. *Refer to section below for detailed descriptions of the mitigation types.*
2. *These additional mitigation measures are applicable to the number of exceedances of the noise management levels presented in the construction noise prediction tables in section 4.0.*
3. *Standard Hours refers to Monday – Friday (7am – 6pm), Sat (8am – 1pm).*
4. *OOHW Period 1 refers to Monday – Friday (6pm – 10pm), Saturday (7am – 8am and 1pm – 10pm), Sunday /public holiday (8am – 6pm).*
5. *OOHW Period 2 refers to Monday – Friday (10pm – 7am), Saturday (10pm – 8am), Sunday /public holiday (6am – 7am).*

6.4.1 Overview of additional mitigation measures

Notification (letterbox drop or equivalent) (N)

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 would 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. This form of communication is used to support periodic notifications, or to advertise unscheduled works.

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.

Individual briefings (IB)

Individual briefings are used to inform stakeholders about the impacts of high noise activities and mitigation measures that would 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.

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 would 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 noise management level to demonstrate support for Duration Respite. Where there are few receivers above the noise management level 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 would be identified on a project-by-project basis. Additional aspects for consideration shall include whether the highly intrusive activities occur throughout the night or before midnight.

Verification (V)

Verification should include measurement of the background noise level and construction noise. A noise monitoring program would be implemented to assist in confirming and controlling the site specific potential for disturbance at particularly sensitive localities at the commencement of activities and periodically during the construction program as the works progress. The results would be reviewed to determine if additional mitigation measures are required. All measurements would be undertaken in accordance with Australian Standard 1055-2018 – Acoustics – Description and measurement of environmental noise.

A noise monitoring program would be presented in the CNVMP.

If ground-borne noise is reported to be a problem during vibration intensive works, attended and/or unattended noise measurements would be undertaken in the relevant building spaces to determine the level of ground-borne noise.

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7.0 Conclusion

Roads and Maritime Services (Roads and Maritime) proposes to build a New England Highway bypass of Singleton. The proposal is located to the west of Singleton and connects the New England Highway to the north and south of Singleton.

7.1 Construction Impacts

The assessment indicates exceedances of the *Interim Construction Noise Guideline* noise management levels at some sensitive receivers during standard hours works. Construction noise would be generally compliant with noise management levels at noise sensitive receivers around the McDougalls Hill facility. Exceedances would be generally less than 10 dB(A) at the Army Camp Road laydown area and generally less than 20 dB(A) at the Southern connection laydown area, Waterworks Lane, Gowrie Gates and Northern connection construction compounds. Up to two receivers are predicted to be highly noise affected close to the Waterworks Lane construction compound. The noisiest construction works would be site establishment activities.

Noise levels from the works associated with the alignment would exceed the noise management levels at nearby receivers during a number of scenarios. The pavement and earthworks are likely to cause the largest number of exceedances of the noise management levels. Most exceedances would be less than 10 dB(A), however some would be greater than 20 dB(A). Up to 15 residences would be highly noise affected during these works.

During out of hours works exceedances of the noise management levels would occur at some sensitive receivers. Exceedances would be generally less than 15 dB(A) at the Southern connection and Army Camp Road laydown areas and generally less than 25 dB(A) at the Waterworks Lane, Gowrie Gates and Northern connection construction compounds, although some exceedances greater than 25 dB(A) could occur. The noisiest construction works would be the laydown works.

Noise levels from the works associated with the alignment would exceed the noise management levels at nearby receivers during a number of scenarios. The pavement works are likely to cause the largest number of exceedances and sleep awakening reactions. Most exceedances would be less than 25 dB(A), however some would be greater.

Overall the pavement works would have the greatest impacts (considering timing, duration, and noise impacts). This work would be undertaken during standard hours and out of hours at times. As the pavement works are progressive in nature receivers will not be affected for the whole duration of construction works. Effective noise mitigation and management measures would need to be developed by the contractor to reduce the potential noise impacts from the works.

Minimum working distances for vibration intensive construction works have been presented and are up to 30 m when vibratory pile drivers are in use. Equipment size would be selected by the contractor considering the minimum working distances and the distance between the area of construction and the most affected sensitive receiver. If works need to be undertaken within cosmetic damage minimum working distances, which may occur at a few residential receivers in Glenridding, vibration monitoring would be undertaken and site specific minimum working distances determined. Heritage and other sensitive structures would need to be considered on a case-by-case basis, dependent on their sensitivity.

Vibration intensive activities during site establishment works for the Southern connection laydown area, the Waterworks Lane construction compound and the Gowrie Gates construction compound may occur within the human comfort minimum working distances at times. For the alignment works vibration intensive activities may occur within the human comfort minimum working distances during earthworks, bridge construction and pavement works. Advance notification should be given to all potentially affected receivers.

Construction traffic would increase road traffic noise levels in some areas, but this would largely remain less than 2 dB(A) which is under the applicable target criterion in the *Road Noise Policy*.

Measures have been recommended which would reduce construction noise impacts. The final number, degree and nature of these measures would ultimately be selected by the contractor and be largely dependent on the construction strategy and work undertaken. Specific noise management and mitigation measures would be detailed in the contractor's Construction Noise and Vibration Management Plan. The recommended management and mitigation measures which would be considered in the plan include:

- Effective community consultation
- Training of construction site workers
- Use of noise barriers
- Noise monitoring
- Appropriate selection and maintenance of equipment
- Scheduling of work for less sensitive time periods
- Situating plant in less noise sensitive locations
- Construction traffic management
- Respite periods.

7.2 Operational Impacts

An operational road traffic impact noise assessment has been completed in accordance with the Environment Protection Authority's *NSW Road Noise Policy* and Roads and Maritime's *Noise Criteria Guideline* and *Noise Mitigation Guideline*.

Noise levels have been predicted at sensitive receiver locations throughout the operational noise study area for both the daytime and night-time scenarios. Exceedances of the applicable noise criteria have been identified.

Noise mitigation in the form of low noise pavements, noise barriers, and architectural treatments have been considered to protect the community. Due to the limited noise reduction properties of durable low-noise pavements their use was not considered reasonable. A detailed noise barrier assessment has resulted in the recommendation of six noise barriers. Barriers one to three are located south of Singleton and Glenridding, with barriers four and five located to the west of Darlington and barrier six to the west of Singleton Heights.

Assuming the construction of the six noise barriers, 89 noise sensitive receivers are still considered to be eligible for the consideration of at-receiver noise treatment. This includes 37 receviers in Darlington, 21 in Glenridding, 13 in Singleton Heights, nine in Singleton, three in Whittingham, five in McDougalls Hill and one in Rixs Creek.

At-receiver treatments may include, but are not limited to, ventilation, glazing, window and door seals, sealing of vents and underfloor areas. These recommendations would be reviewed and confirmed at the detailed design phase when more specific information would be available for each property.

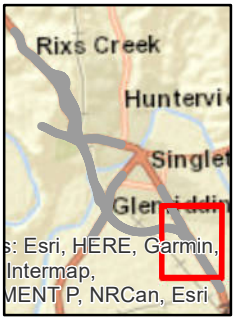
Appendix A

Logging and Traffic Counting Locations



Singleton Bypass - Logger Locations

New Road
Redeveloped Road
Proposal Area
Tube Counters
Loggers



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N

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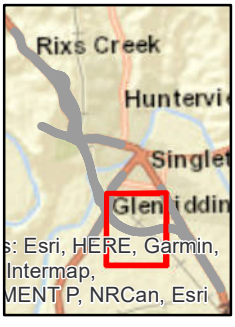
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Singleton Bypass - Logger Locations

New Road
Redeveloped Road
Proposal Area
Tube Counters
Loggers



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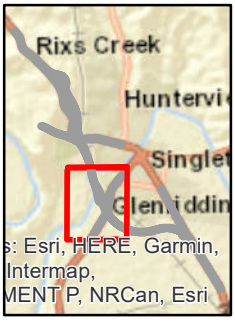
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Singleton Bypass - Logger Locations



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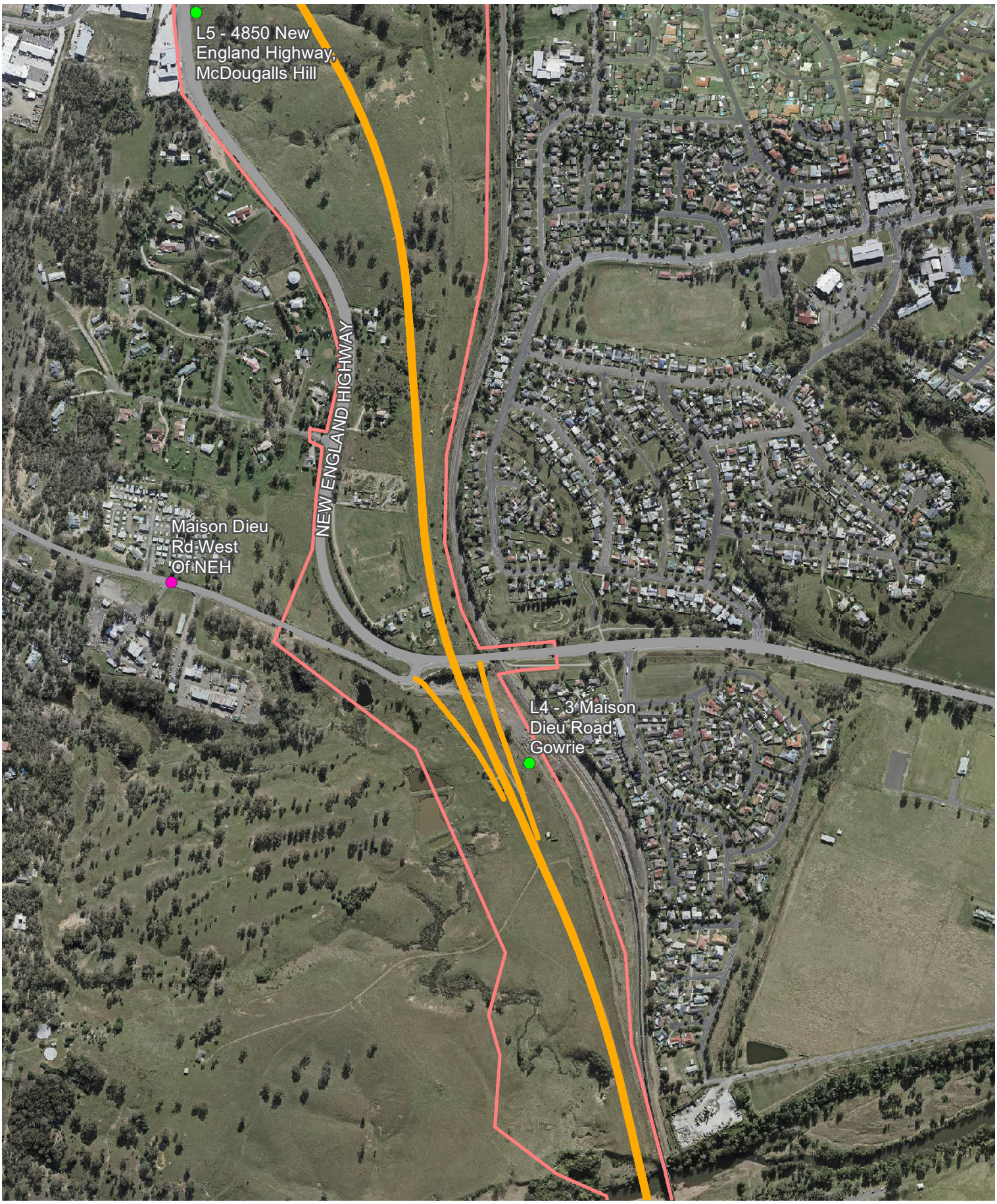
- New Road
- Redeveloped Road
- Proposal Area
- Tube Counters
- Loggers

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Singleton Bypass - Logger Locations

- New Road
- Redeveloped Road
- Proposal Area
- Tube Counters
- Loggers



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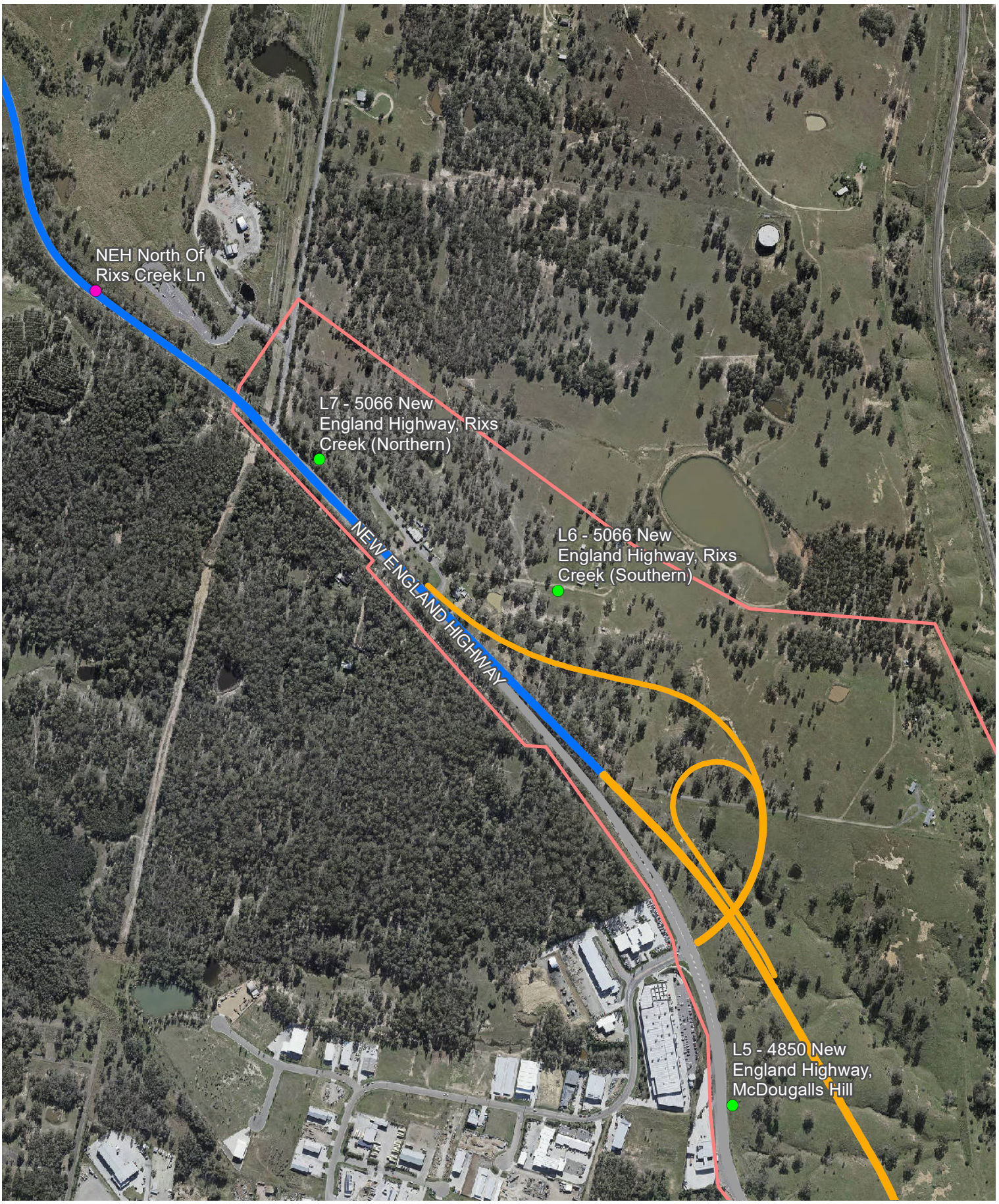
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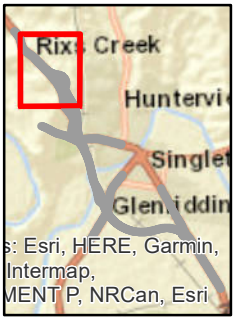
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Singleton Bypass - Logger Locations

- New Road
- Redeveloped Road
- Proposal Area
- Tube Counters
- Loggers



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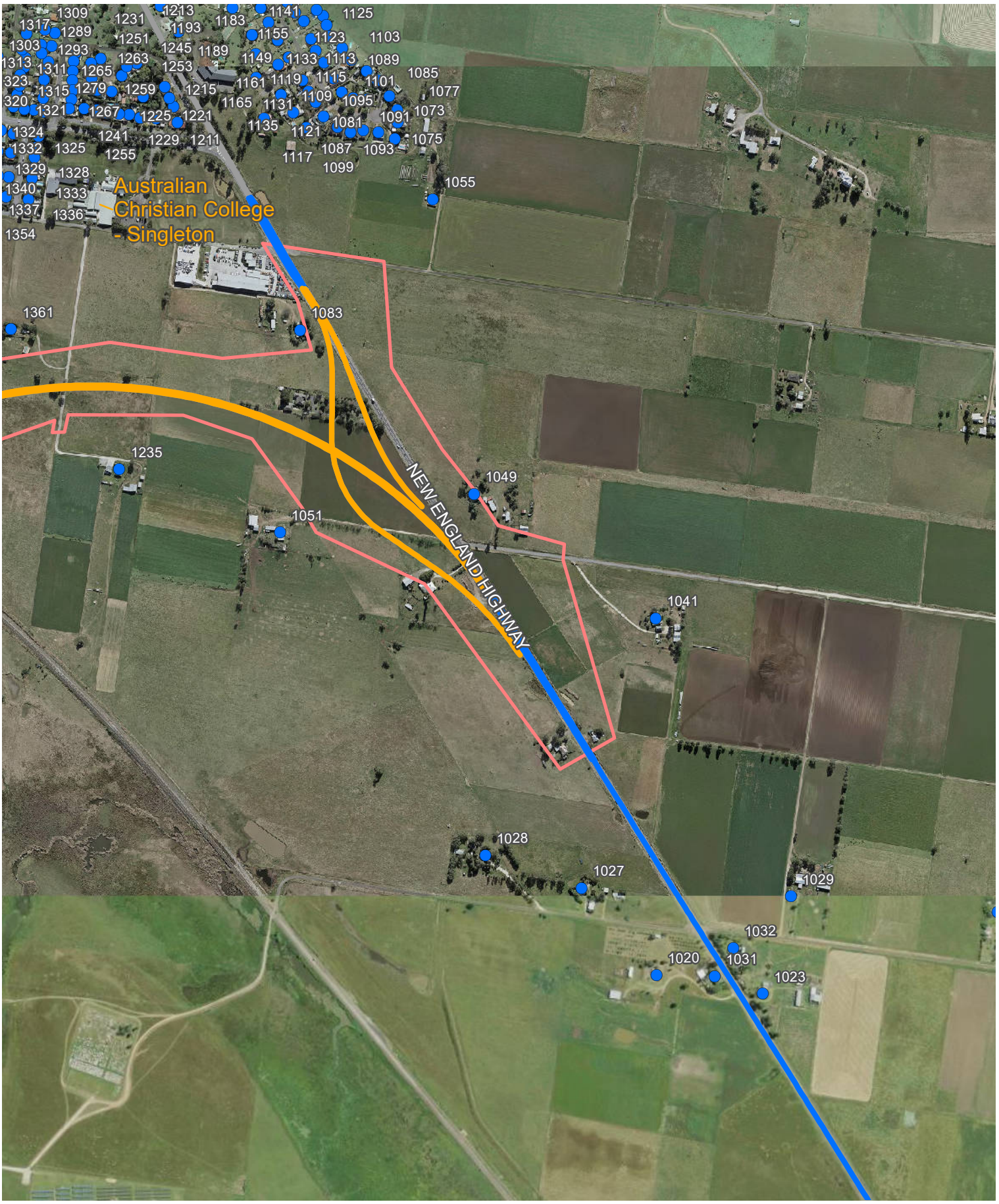
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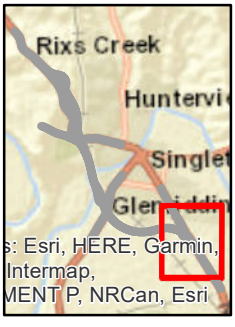
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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers

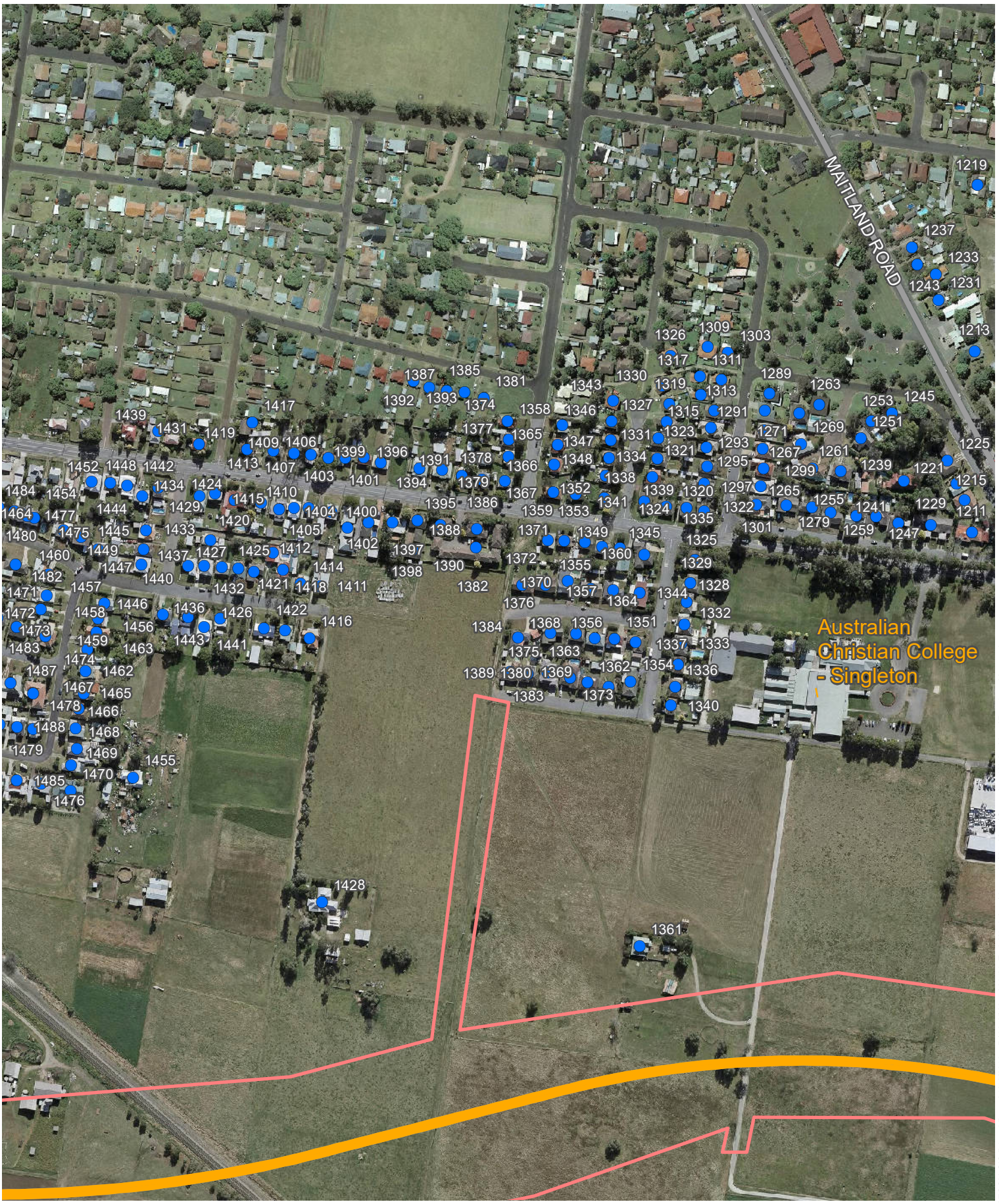
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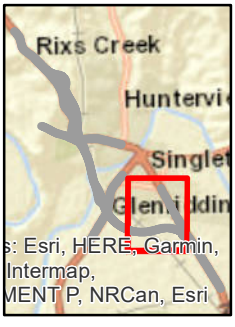
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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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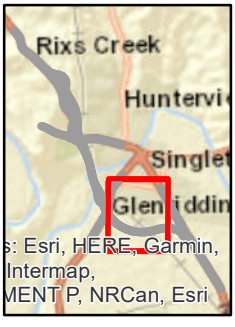
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Singleton Bypass - Receivers

- New Road
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- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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Singleton Bypass - Receivers

- New Road
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- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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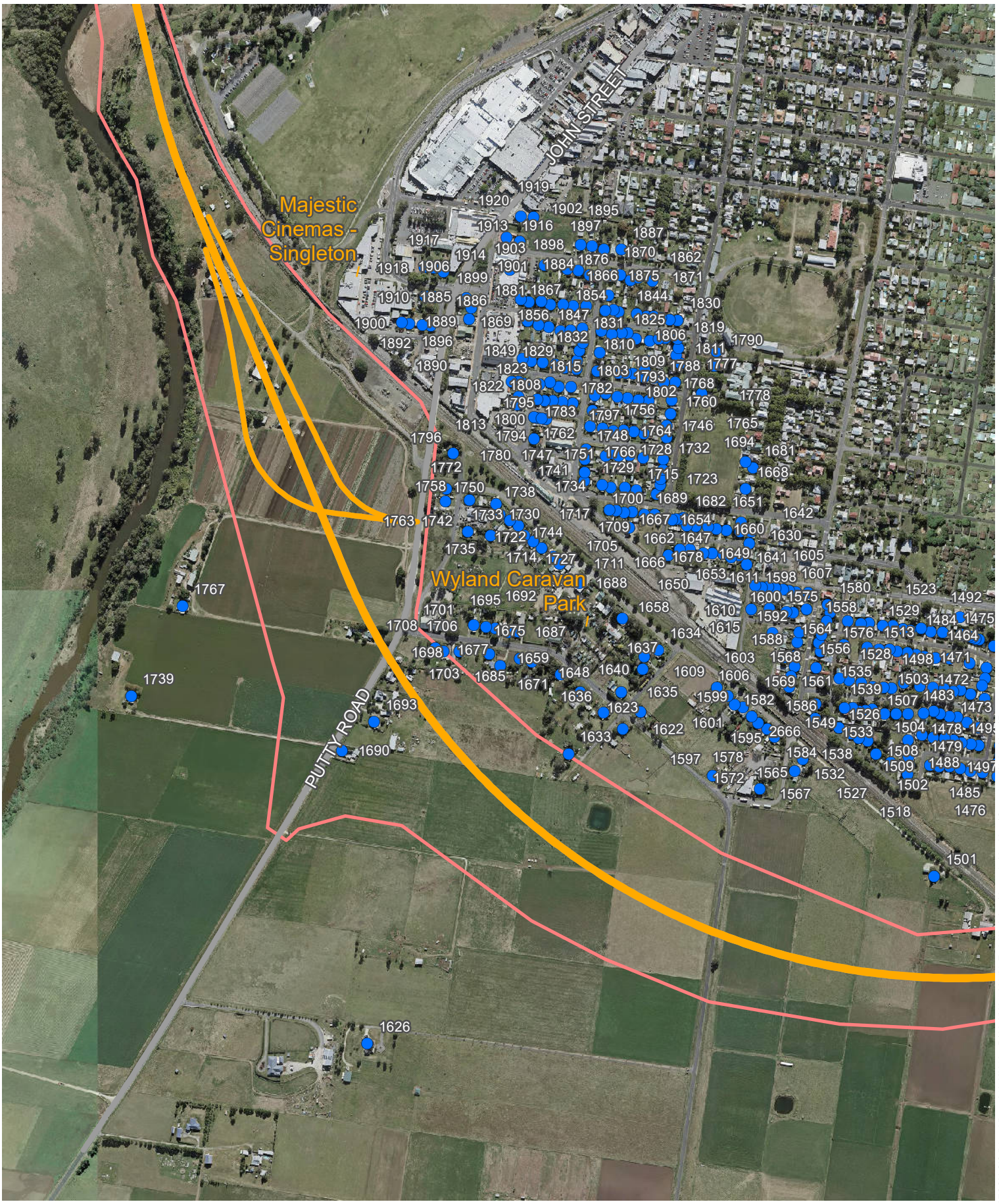
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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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Singleton Bypass - Receivers

New Road
Redeveloped Road
Proposal Area
Residential Receivers
Non-Residential Receivers



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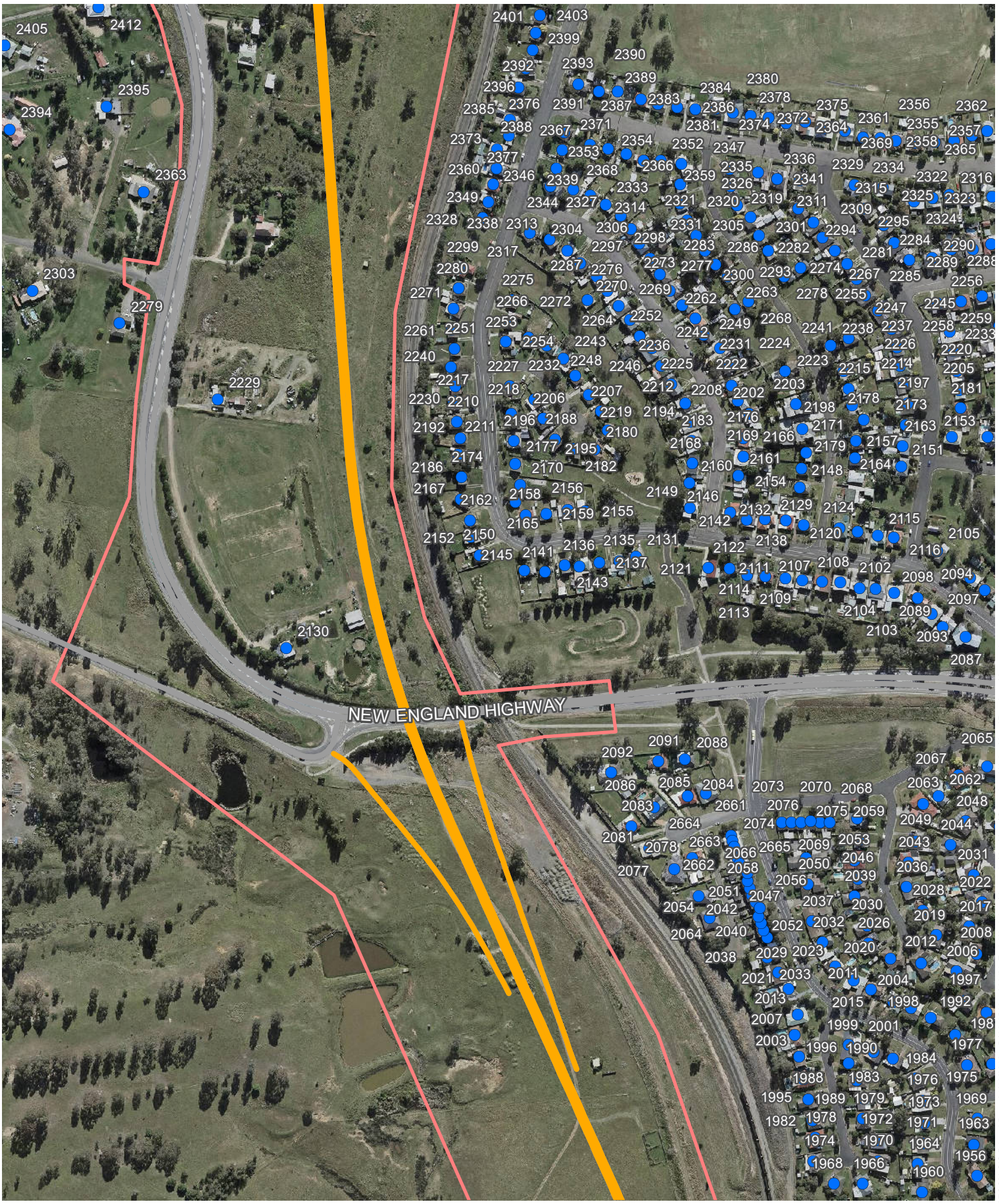
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Singleton Bypass - Receivers

New Road
Redeveloped Road
Proposal Area
Residential Receivers
Non-Residential Receivers



AECOM

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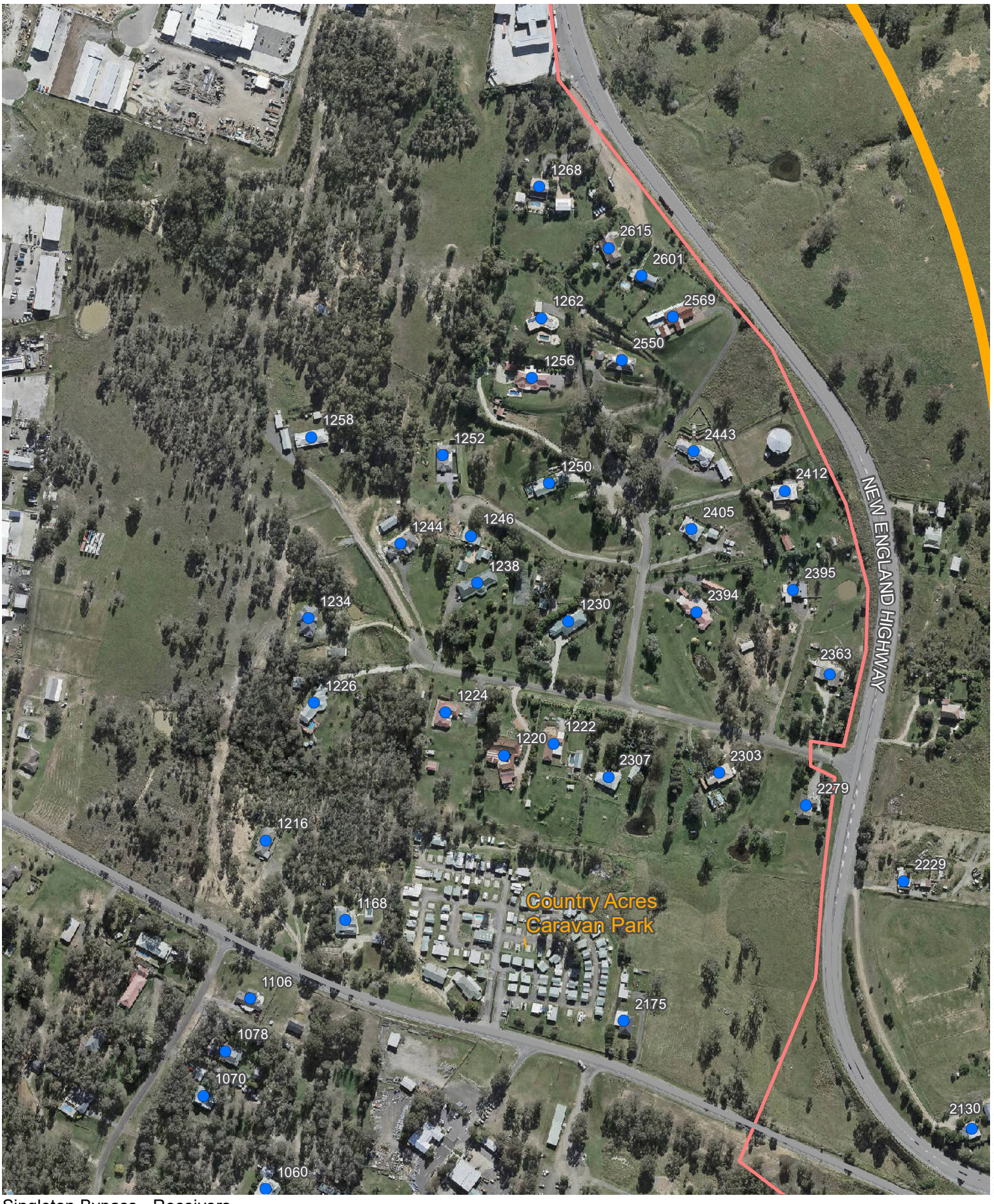
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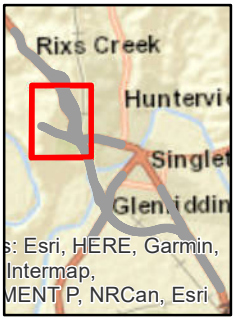
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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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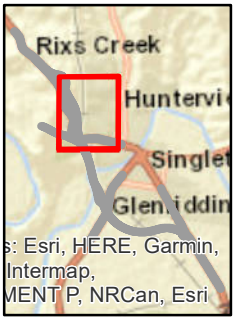
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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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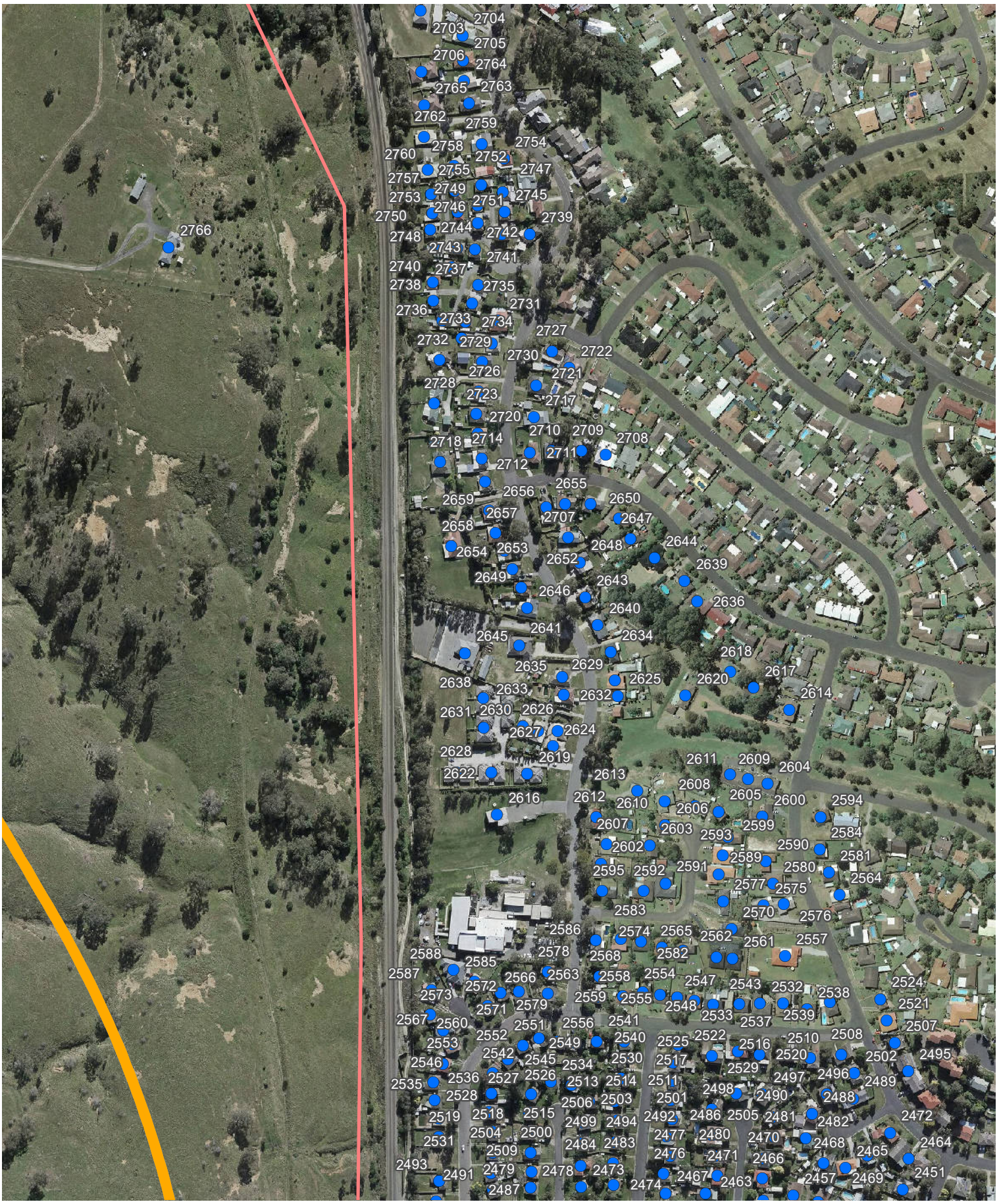
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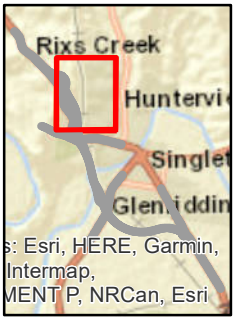
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Singleton Bypass - Receivers

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- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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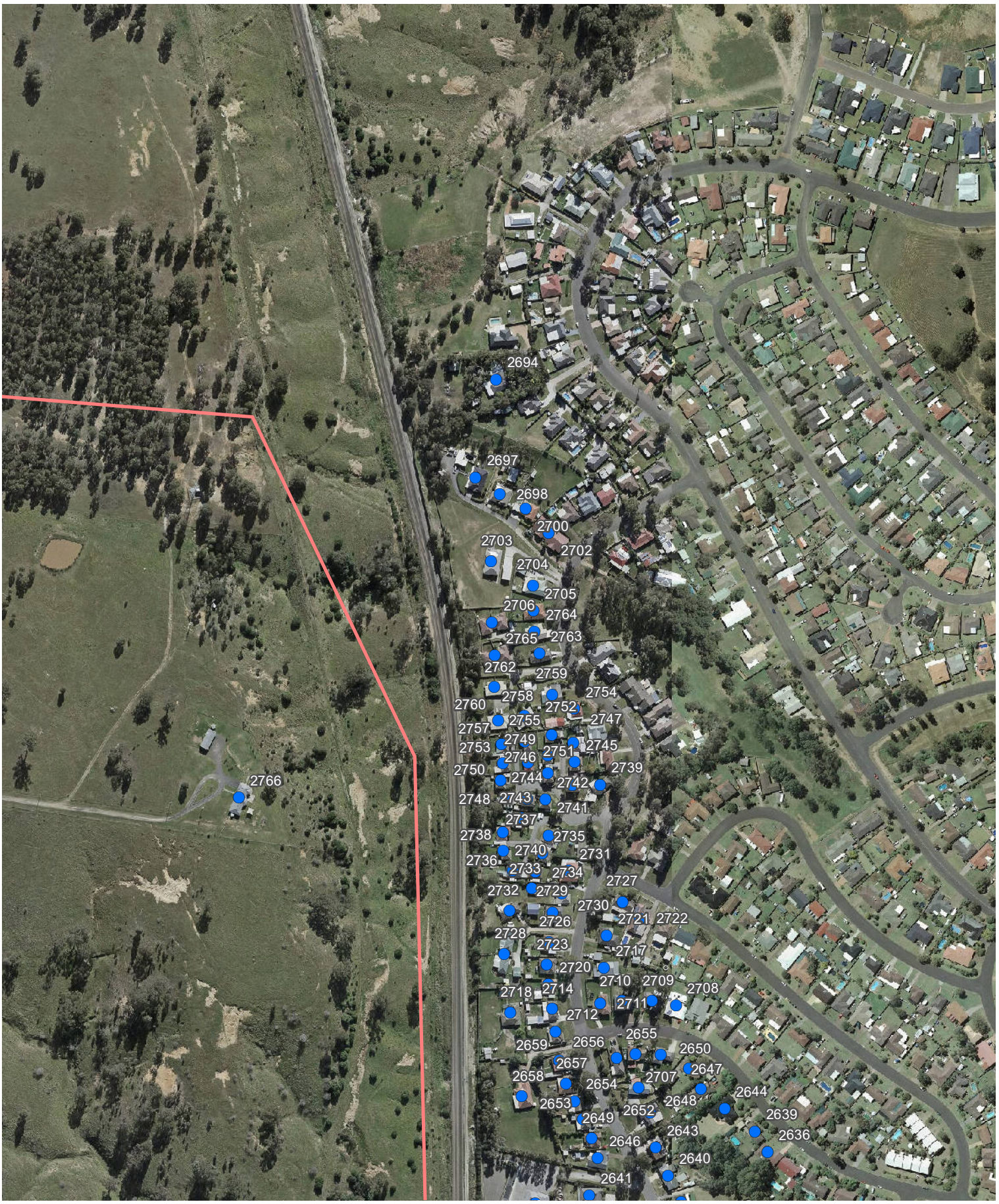
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Singleton Bypass - Receivers



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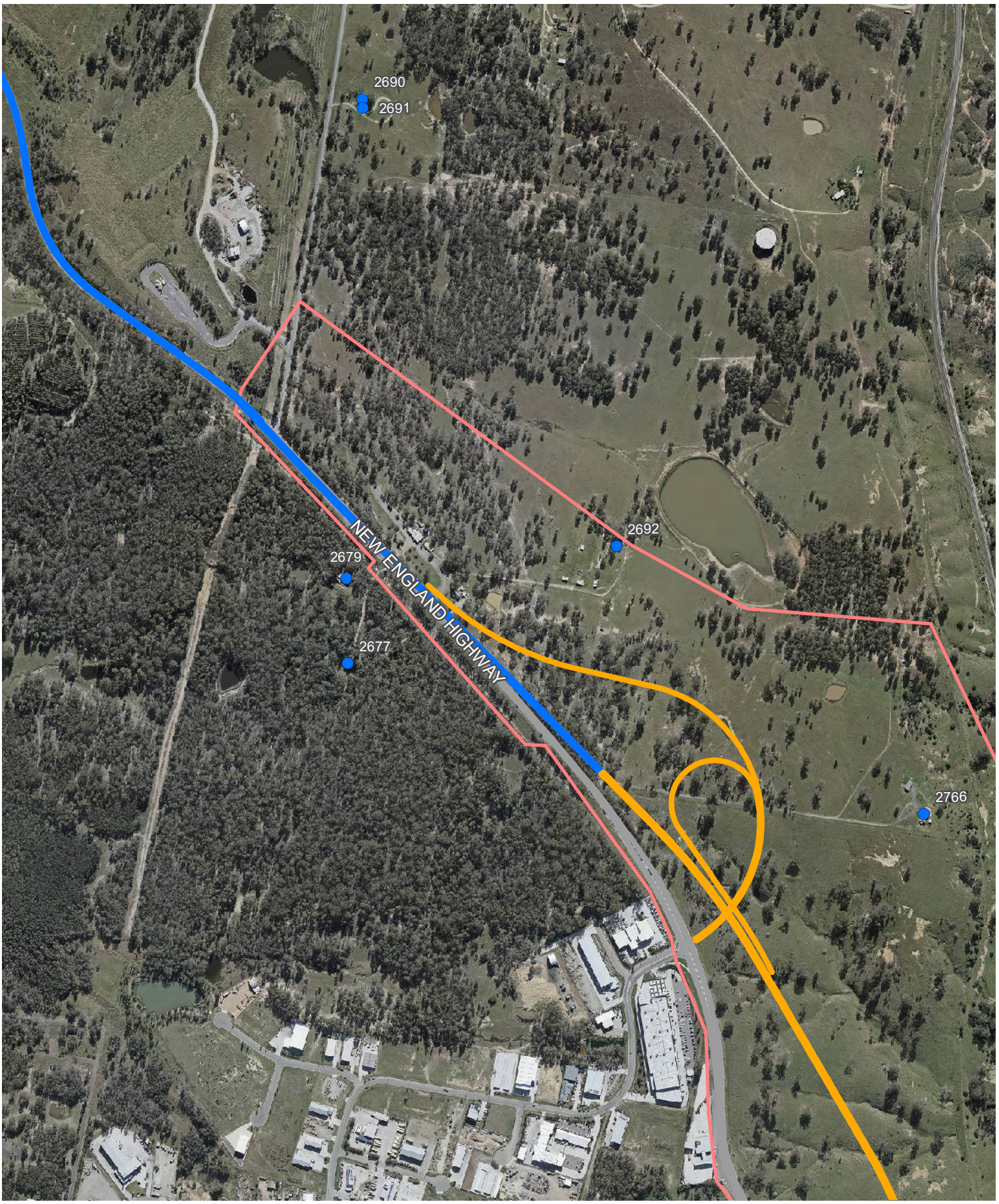
- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers

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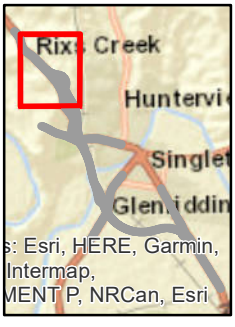
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Singleton Bypass - Receivers

- New Road
- Redeveloped Road
- Proposal Area
- Residential Receivers
- Non-Residential Receivers



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Appendix B

Logger Photos and Results

Noise Logger Report

L1 - 4294 New England Highway, Whittingham

Item	Information
Logger Type	Rion NL21
Serial number	265112
Address	L1 - 4294 New England Highway, Whittingham
Location	Front Yard
Facade / Free Field	Free Field
Environment	Daytime - noise environment dominated by heavy road traffic from New England highway 72-73dB(A). Occasional pauses in traffic flow. Coal train horn and coal train clearly audible. Buzzing insects in grass in paddock behind logger clearly audible. Night time - Coal train clearly audible. Road traffic loud but infrequent. Engine braking clearly audible.

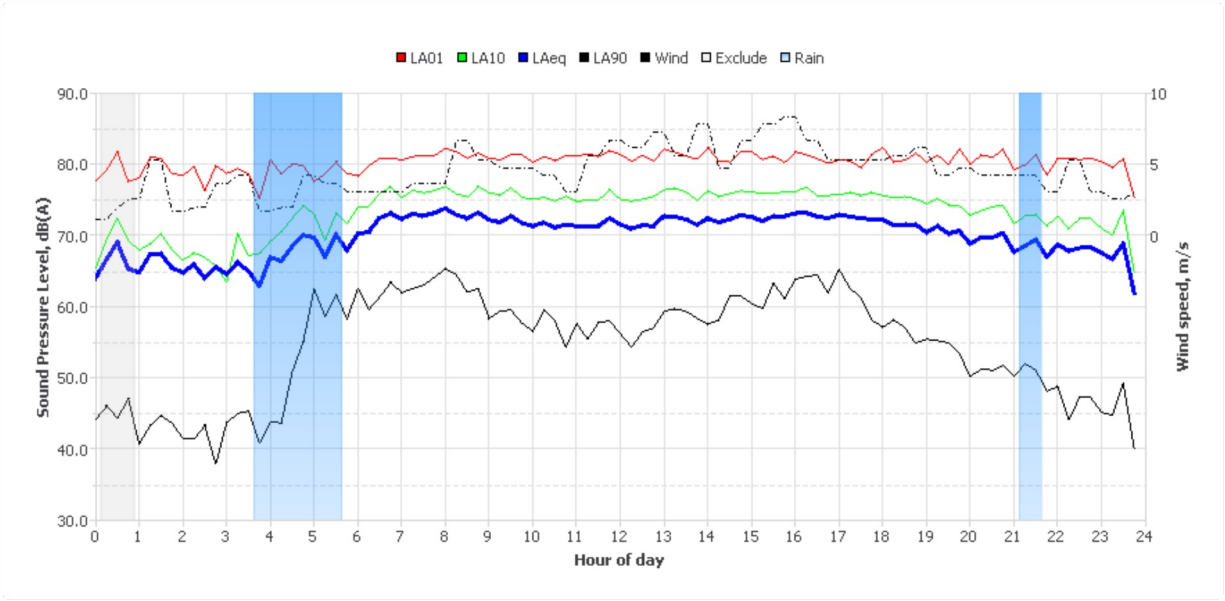
Measured noise levels

Logging Date	L_{Aeq} Day	Eve	Night	ABL Day	Eve	Night	$L_{Aeq,15hr}$	$L_{Aeq,9hr}$
Tue Mar 6 2018	72	70	68	-	-	-	71	68
Wed Mar 7 2018	72	69	68	-	-	-	71	68
Thu Mar 8 2018	72	69	68	-	-	44	71	68
Fri Mar 9 2018	72	69	68	-	50	43	71	68
Sat Mar 10 2018	70	66	66	-	-	41	69	66
Sun Mar 11 2018	69	69	65	52	51	44	69	65
Mon Mar 12 2018	71	67	68	-	-	44	71	68
Summary	**72**	**69**	**67**	**52**	**50**	**44**	**71**	**67**

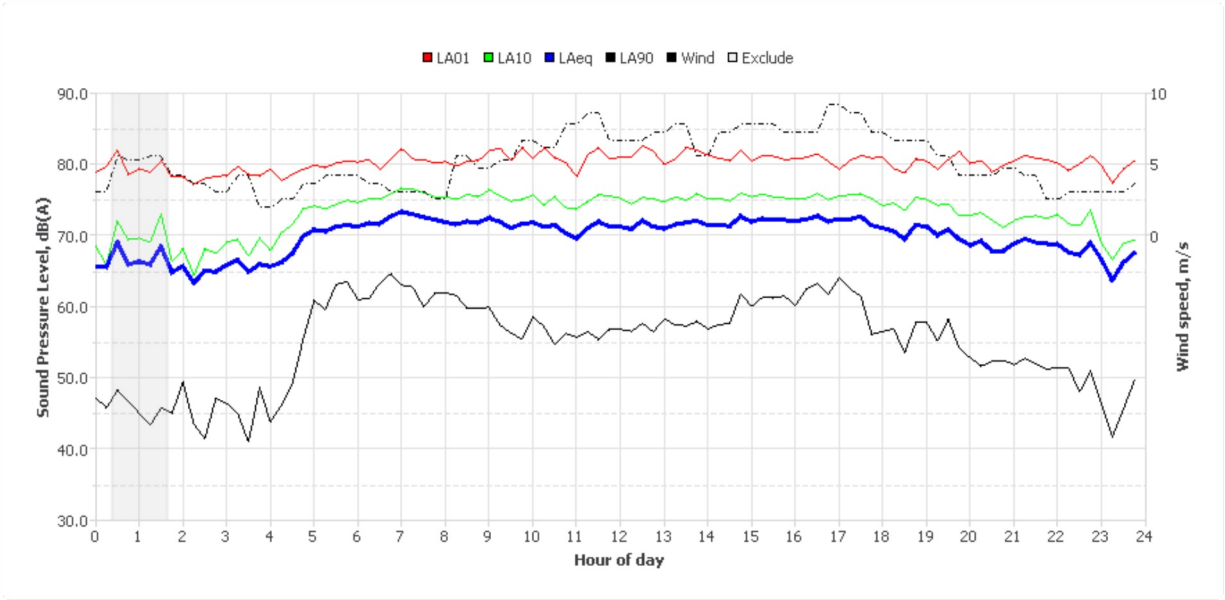
Note: Results denoted with '-' do not contain enough valid data for a value to be calculated. The data has been excluded either manually or automatically as a result of adverse weather conditions.

Logger Location	Logger Deployment Photo
	

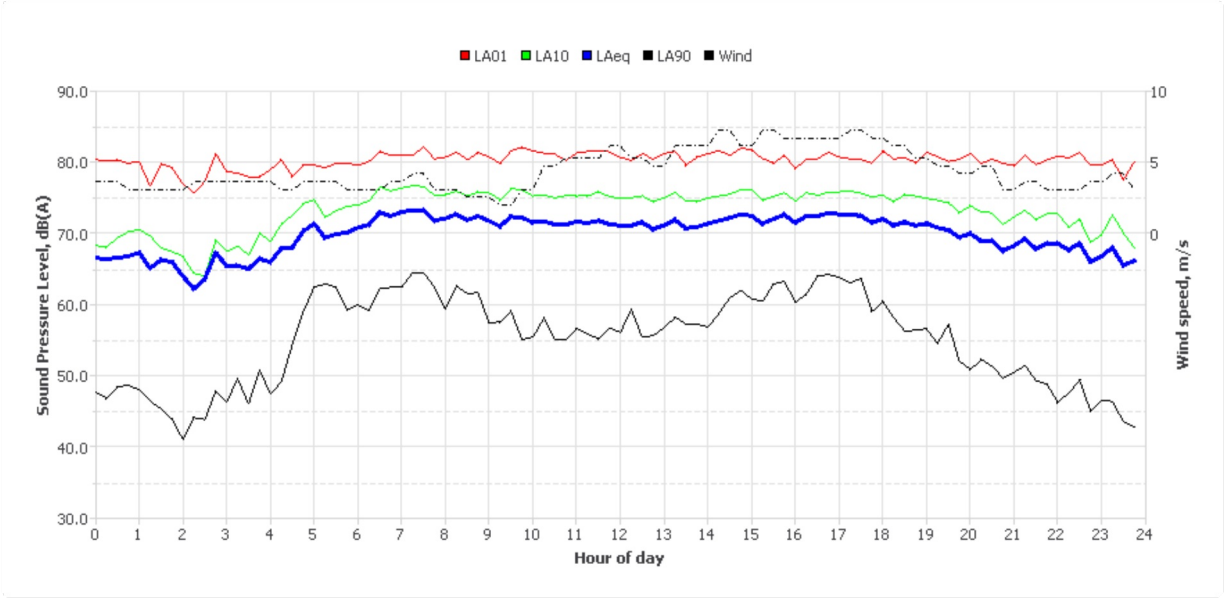
Tuesday, 06 Mar 2018



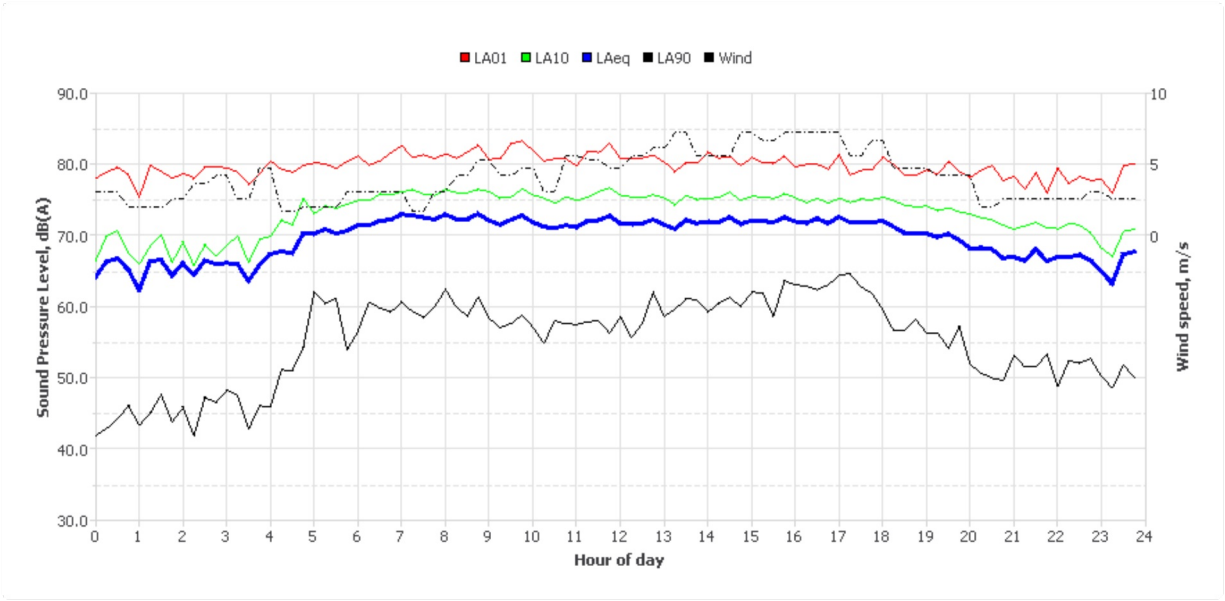
Wednesday, 07 Mar 2018



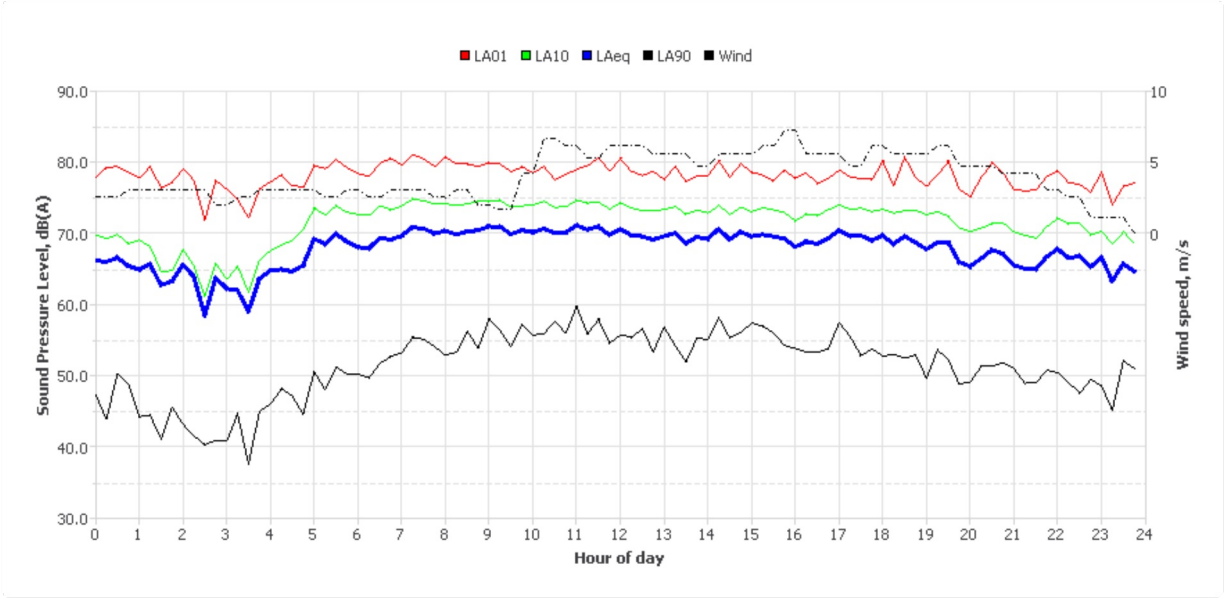
Thursday, 08 Mar 2018



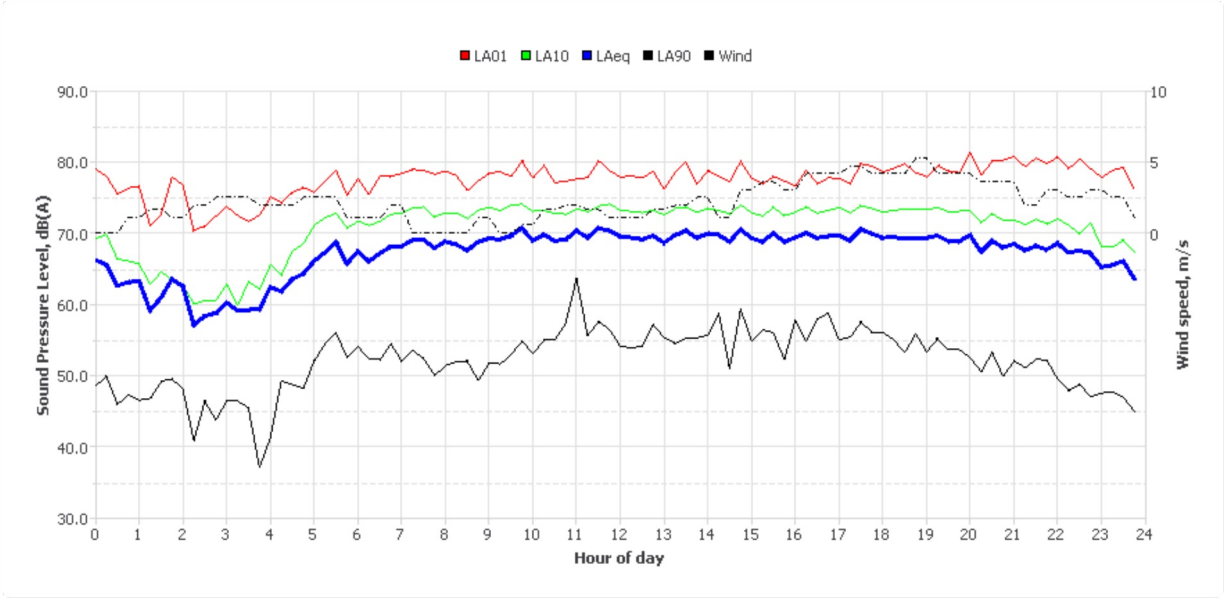
Friday, 09 Mar 2018



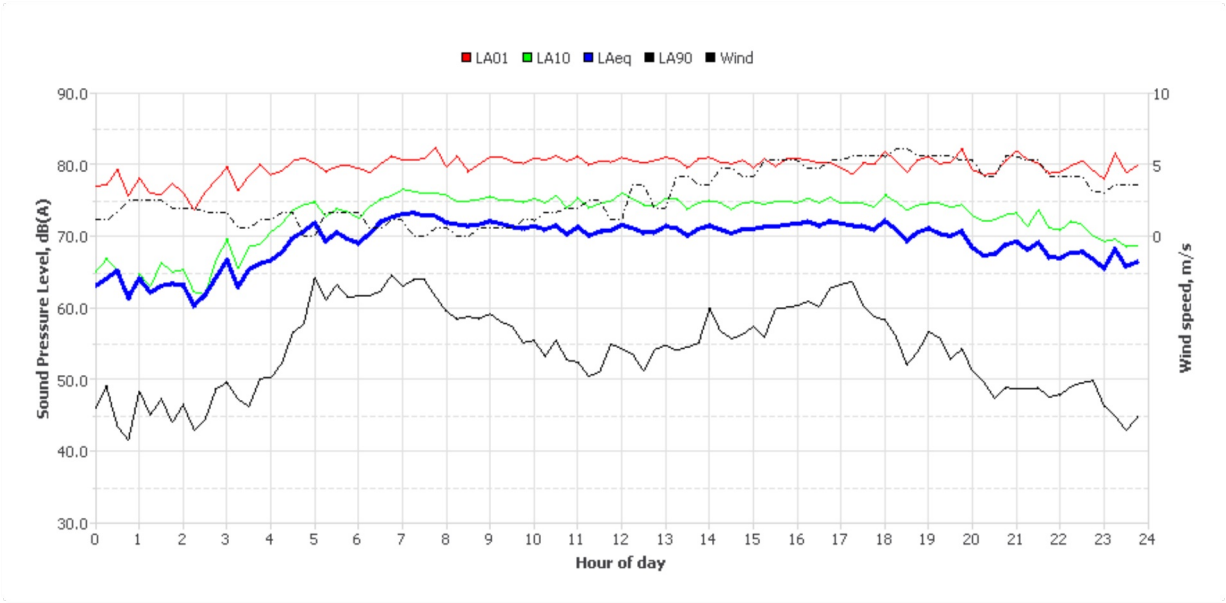
Saturday, 10 Mar 2018



Sunday, 11 Mar 2018



Monday, 12 Mar 2018



Noise Logger Report

L2 - 35A Waddells Lane, Singleton

Item	Information
Logger Type	Svan 977
Serial number	45416
Address	L2 - 35A Waddells Lane, Singleton
Location	Back Paddock
Facade / Free Field	Free Field
Environment	Moderate winds across paddock. Background noise controlled by constant road traffic hum along New England Highway. Cicadas also audible. Bird noise barely audible. Almost no road traffic along Waddells Avenue. Train noise can also be heard nearby including horn clearly audible.Moderate winds across paddock. Background controlled by constant road traffic hum along the New England Highway. Cicadas also audible. Bird noise barely audible. Almost no road traffic along Waddells avenue. Train noise can also be heard nearby including horn clearly audible.

Measured noise levels

Logging Date	L_{Aeq} Day	Eve	Night	ABL Day	Eve	Night	$L_{Aeq,15hr}$	$L_{Aeq,9hr}$
Fri Mar 2 2018	49	50	51	34	-	37	49	51
Sat Mar 3 2018	47	49	51	31	-	39	47	51
Sun Mar 4 2018	50	50	49	-	-	36	50	49
Mon Mar 5 2018	48	49	48	36	-	37	48	48
Tue Mar 6 2018	51	51	51	-	-	-	51	51
Wed Mar 7 2018	50	50	50	-	-	37	50	50
Thu Mar 8 2018	55	50	51	-	-	34	54	51
Fri Mar 9 2018	49	52	52	-	42	38	50	52
Sat Mar 10 2018	49	49	49	-	-	39	49	49
Sun Mar 11 2018	46	49	53	33	41	39	47	53
Mon Mar 12 2018	47	51	51	35	39	37	49	51
Tue Mar 13 2018	50	54	52	-	-	36	52	52
Wed Mar 14 2018	50	54	50	35	43	37	51	50
Thu Mar 15 2018	53	-	49	-	-	-	53	49
Summary	**50**	**51**	**51**	**34**	**42**	**37**	**51**	**51**

Note: Results denoted with '-' do not contain enough valid data for a value to be calculated. The data has been excluded either manually or automatically as a result of adverse weather conditions.

Logger Location

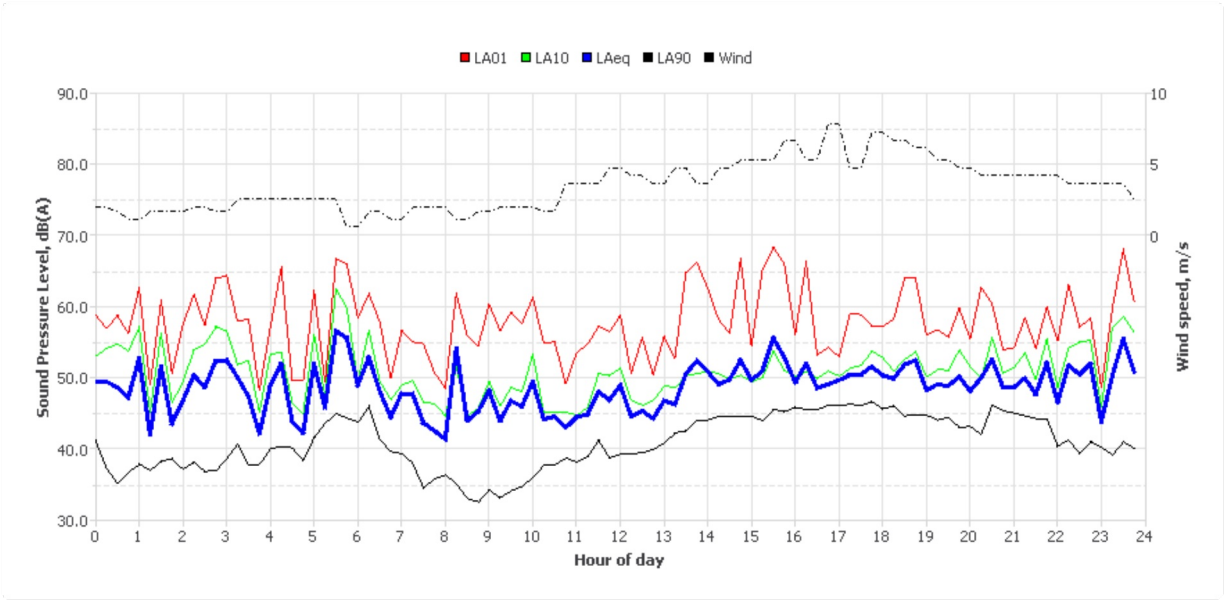


L2 - 35A Waddells Lane, Singleton

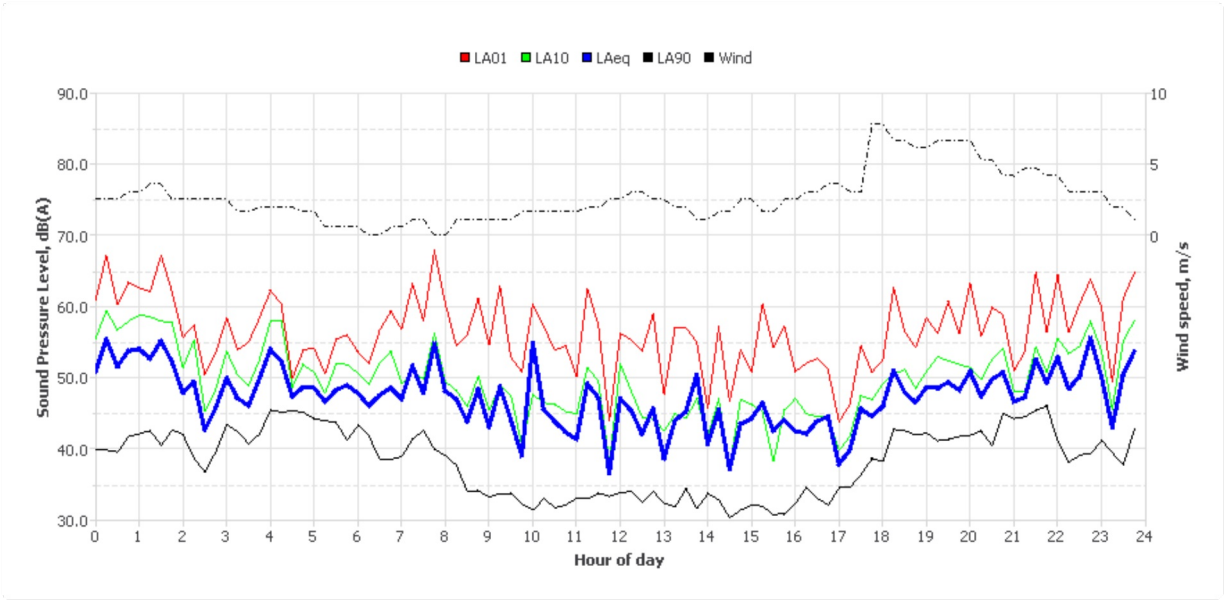
Logger Deployment Photo



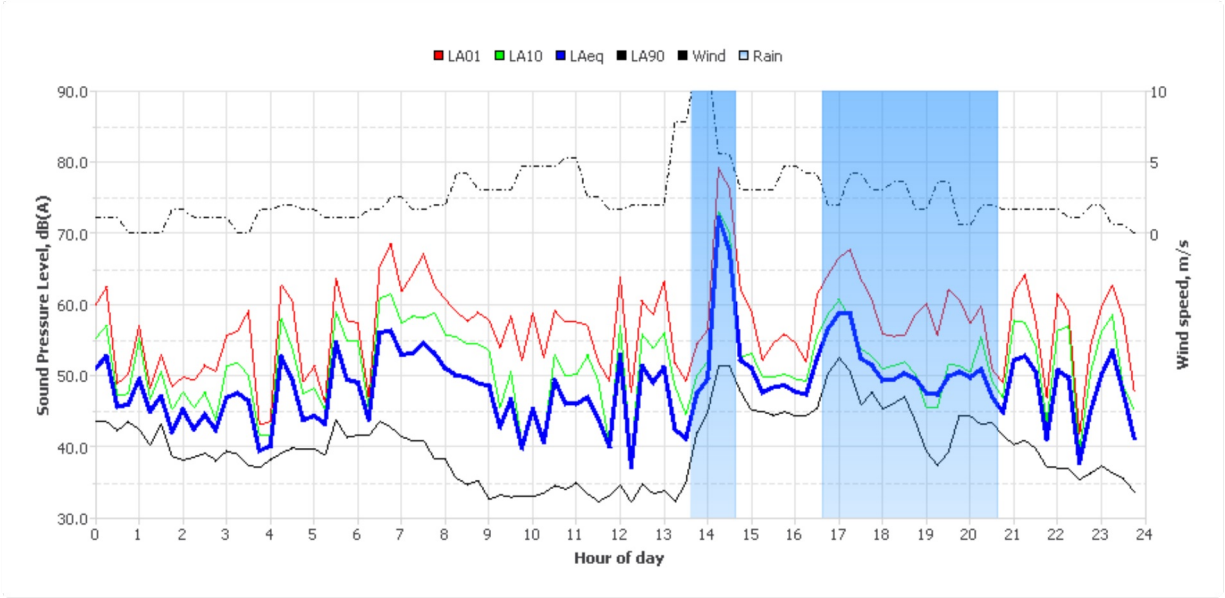
Friday, 02 Mar 2018



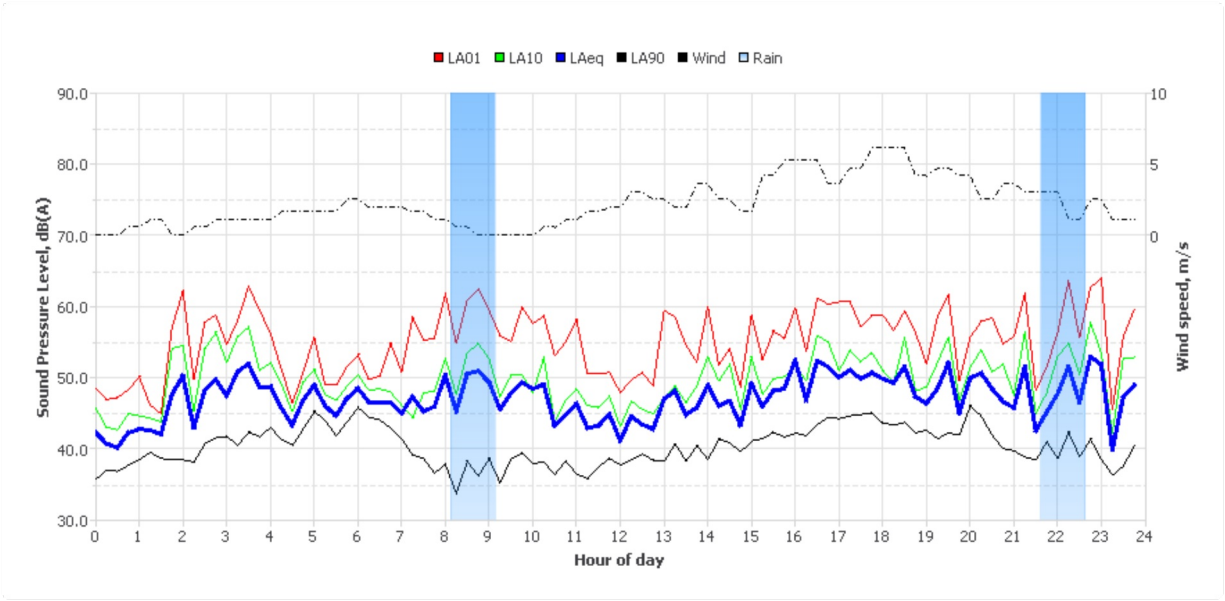
Saturday, 03 Mar 2018



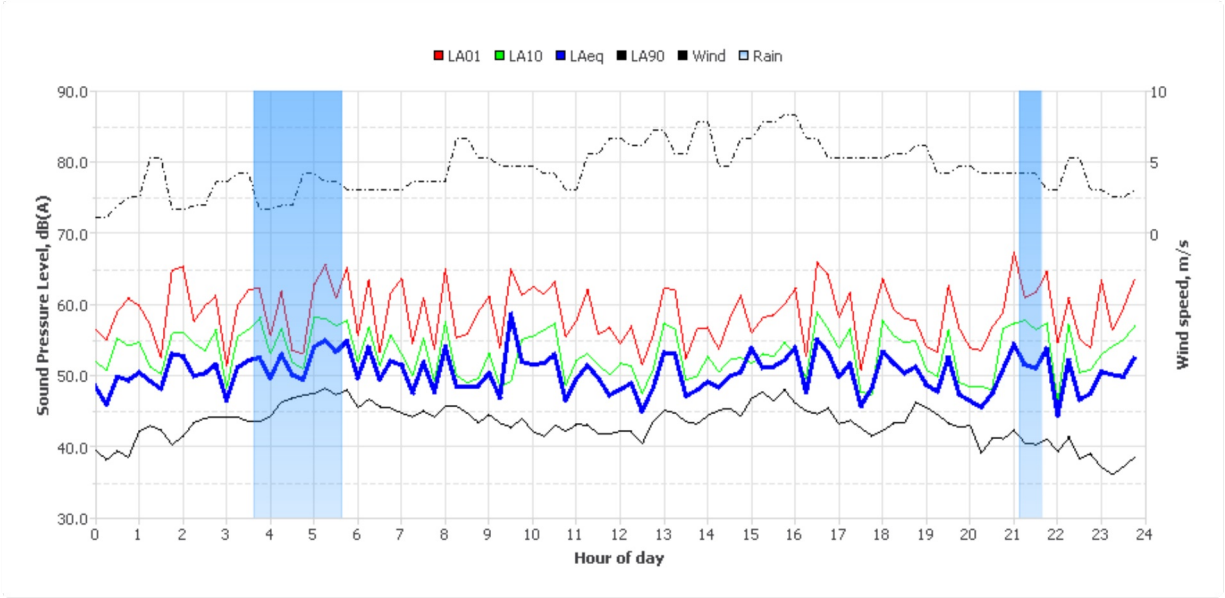
Sunday, 04 Mar 2018



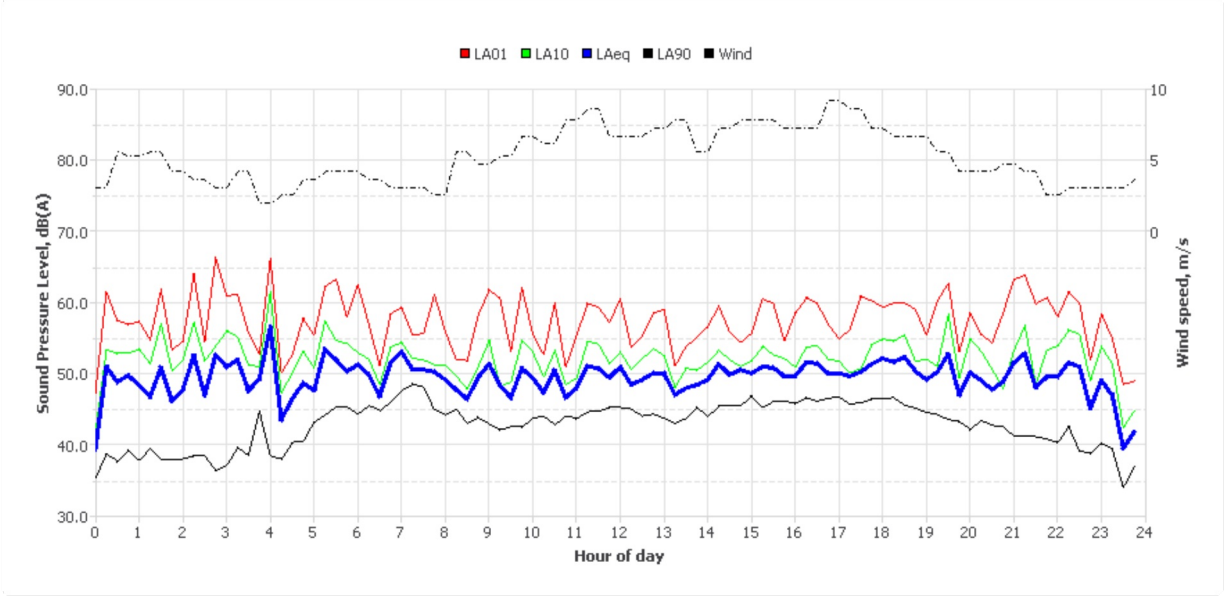
Monday, 05 Mar 2018



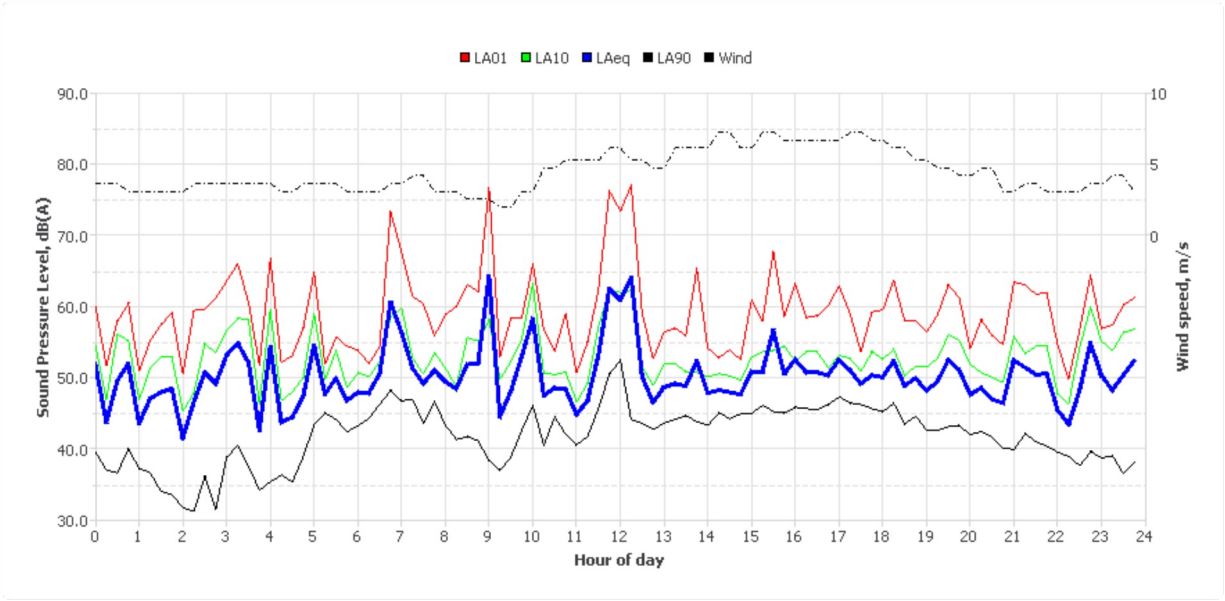
Tuesday, 06 Mar 2018



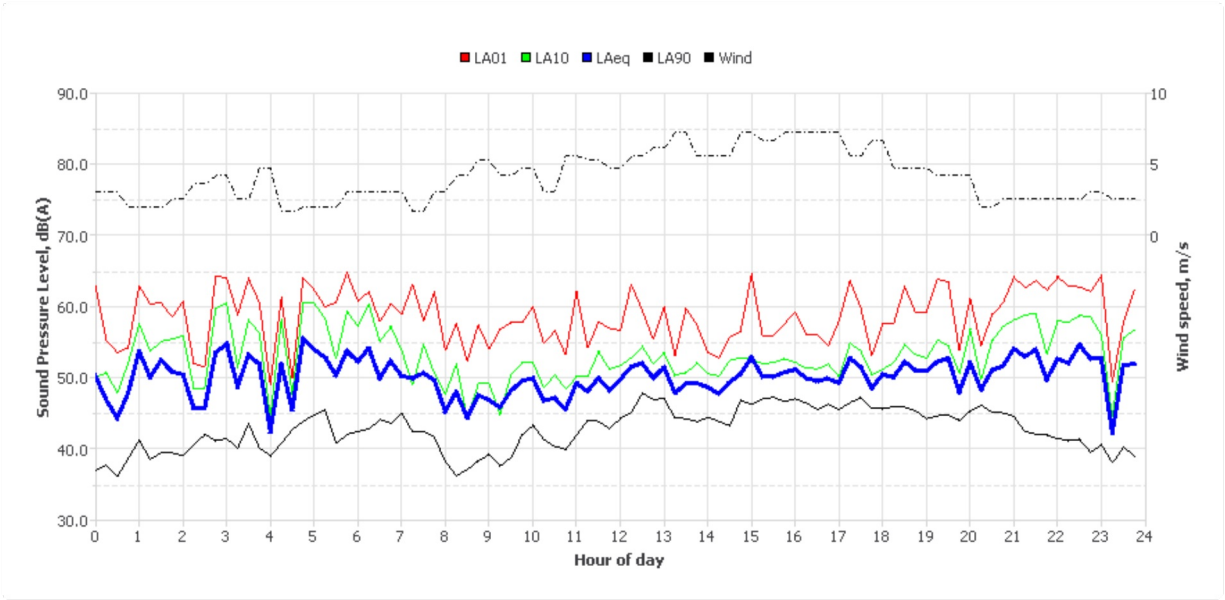
Wednesday, 07 Mar 2018



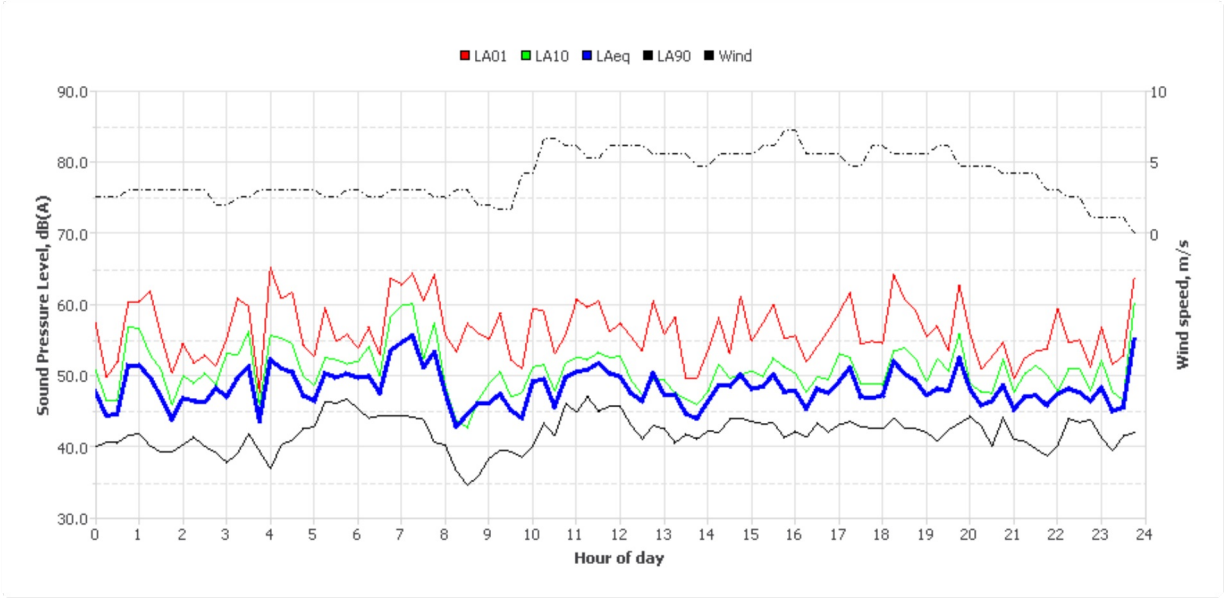
Thursday, 08 Mar 2018



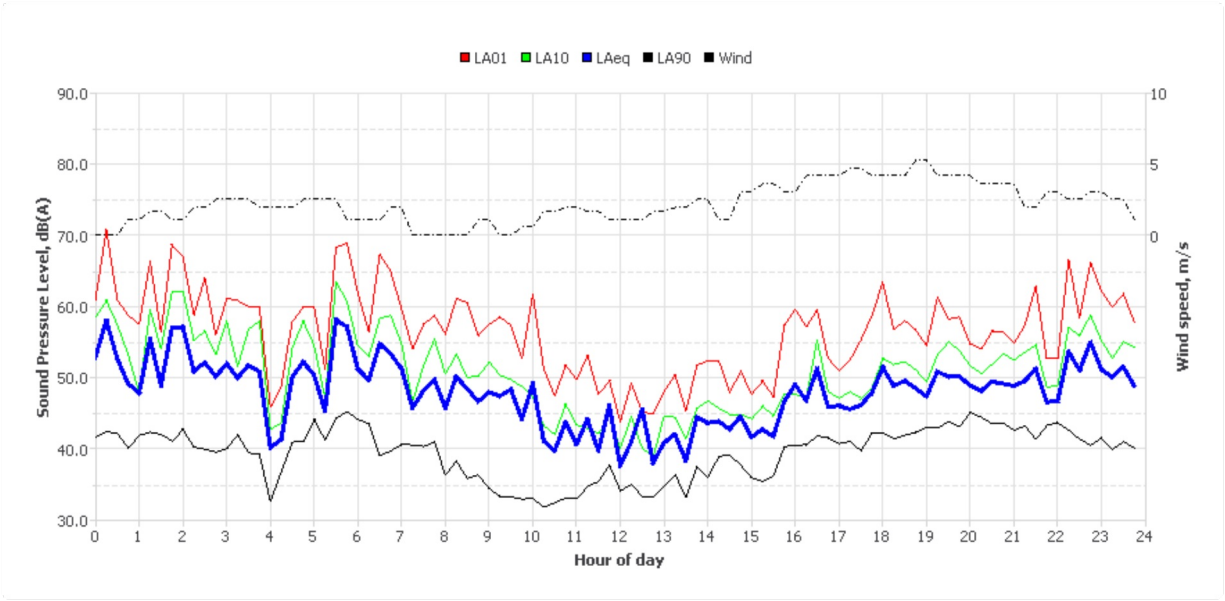
Friday, 09 Mar 2018



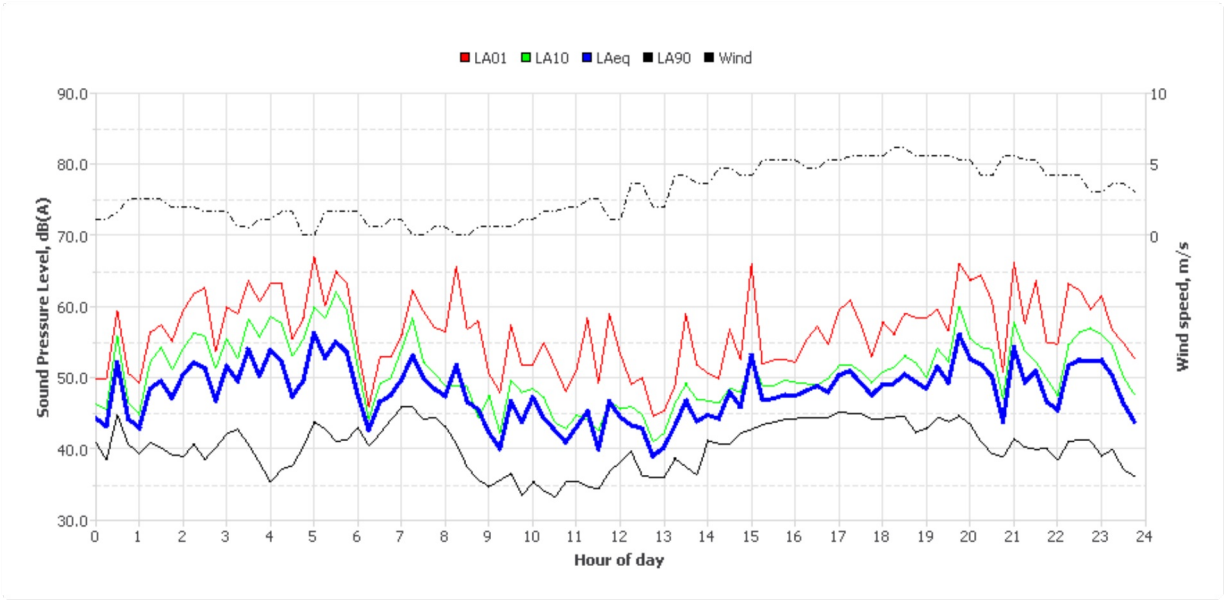
Saturday, 10 Mar 2018



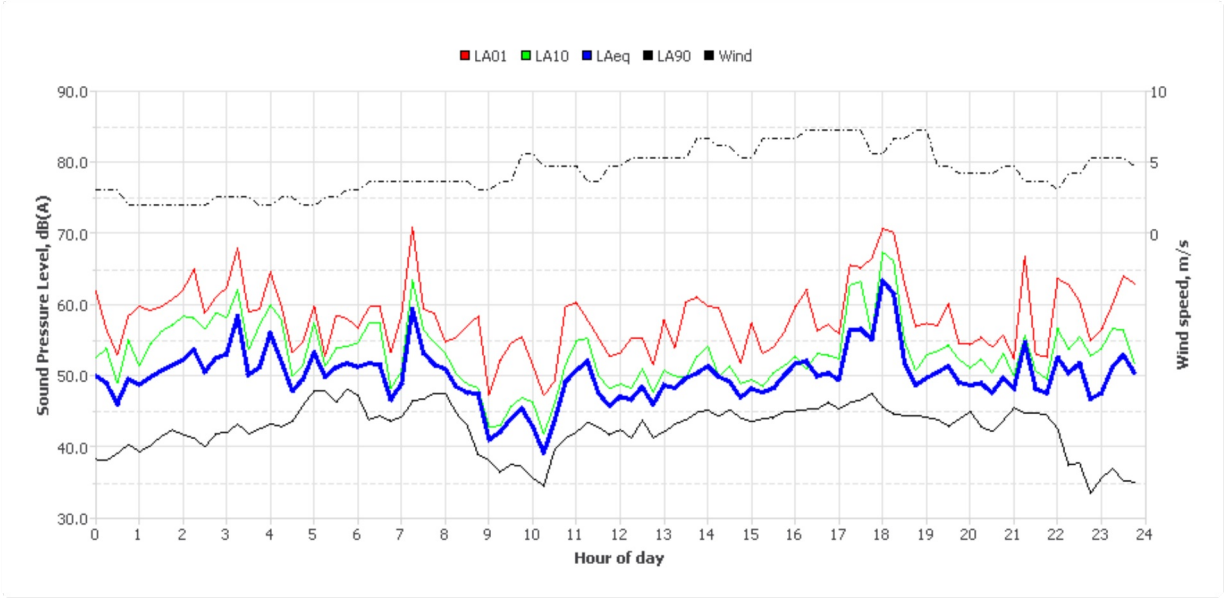
Sunday, 11 Mar 2018



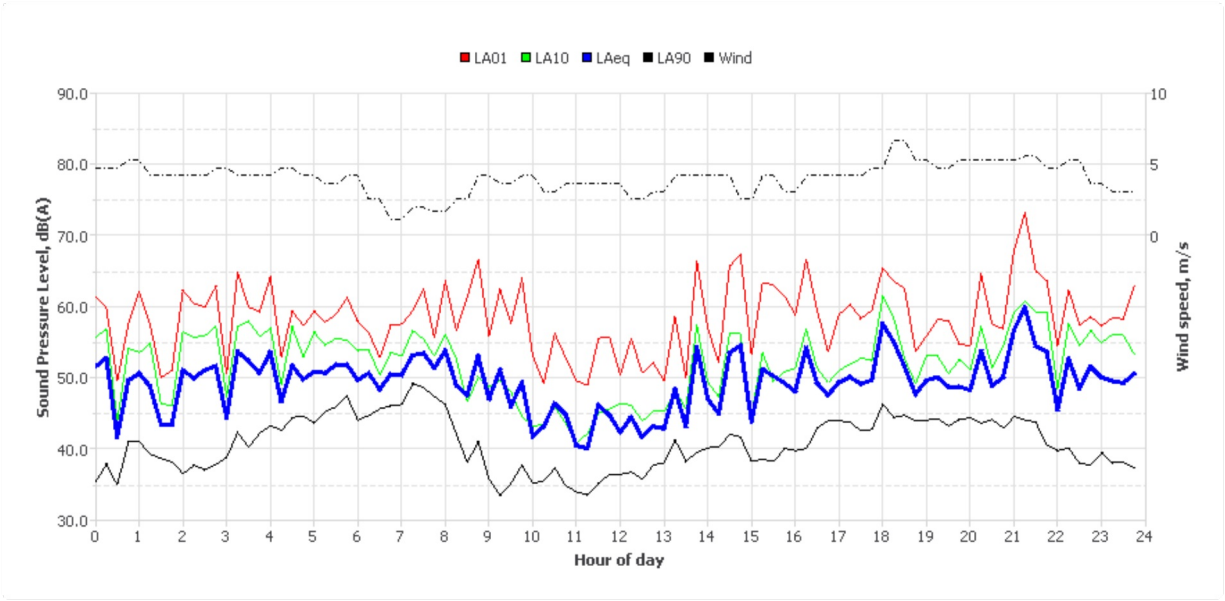
Monday, 12 Mar 2018



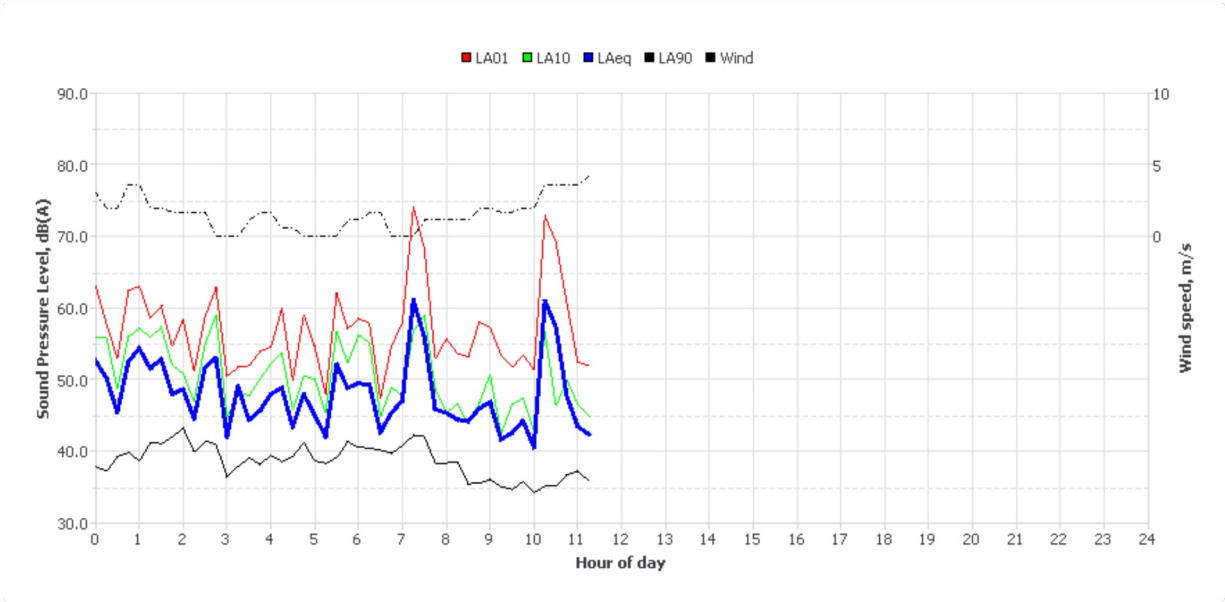
Tuesday, 13 Mar 2018



Wednesday, 14 Mar 2018



Thursday, 15 Mar 2018



Noise Logger Report

L3 - 32 Glenridding Road, Glenridding

Item	Information
Logger Type	ARL 315
Serial number	15-299-444
Address	L3 - 32 Glenridding Road, Glenridding
Location	Back Paddock
Facade / Free Field	Free Field
Environment	Train pass-by 59dB(A). Bird noise audible. Indiscernible traffic hum and wind noise in trees controlling background level. Putty road traffic inaudible.

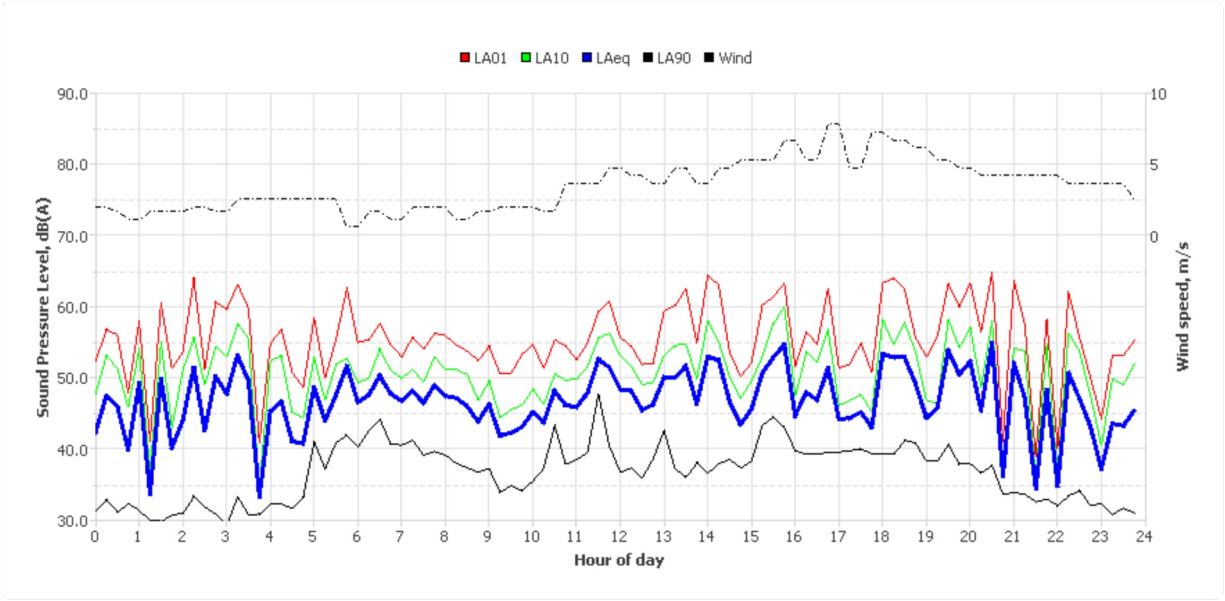
Measured noise levels

Logging Date	L_{Aeq} Day	Eve	Night	ABL Day	Eve	Night	$L_{Aeq,15hr}$	$L_{Aeq,9hr}$
Fri Mar 2 2018	48	50	47	36	-	31	49	47
Sat Mar 3 2018	48	50	50	32	-	30	48	50
Sun Mar 4 2018	51	43	47	-	-	31	51	47
Mon Mar 5 2018	48	48	45	35	-	31	48	45
Tue Mar 6 2018	53	47	47	-	-	-	52	47
Wed Mar 7 2018	50	50	49	-	-	31	50	49
Thu Mar 8 2018	49	49	50	-	-	30	49	50
Fri Mar 9 2018	49	51	49	-	34	30	50	49
Sat Mar 10 2018	49	51	49	-	-	30	50	49
Sun Mar 11 2018	48	49	50	34	34	28	48	50
Mon Mar 12 2018	49	50	52	35	35	31	49	52
Tue Mar 13 2018	49	49	50	-	-	29	49	50
Wed Mar 14 2018	52	53	50	35	35	30	52	50
Thu Mar 15 2018	49	-	51	-	-	-	49	51
Summary	**50**	**50**	**49**	**35**	**35**	**30**	**50**	**49**

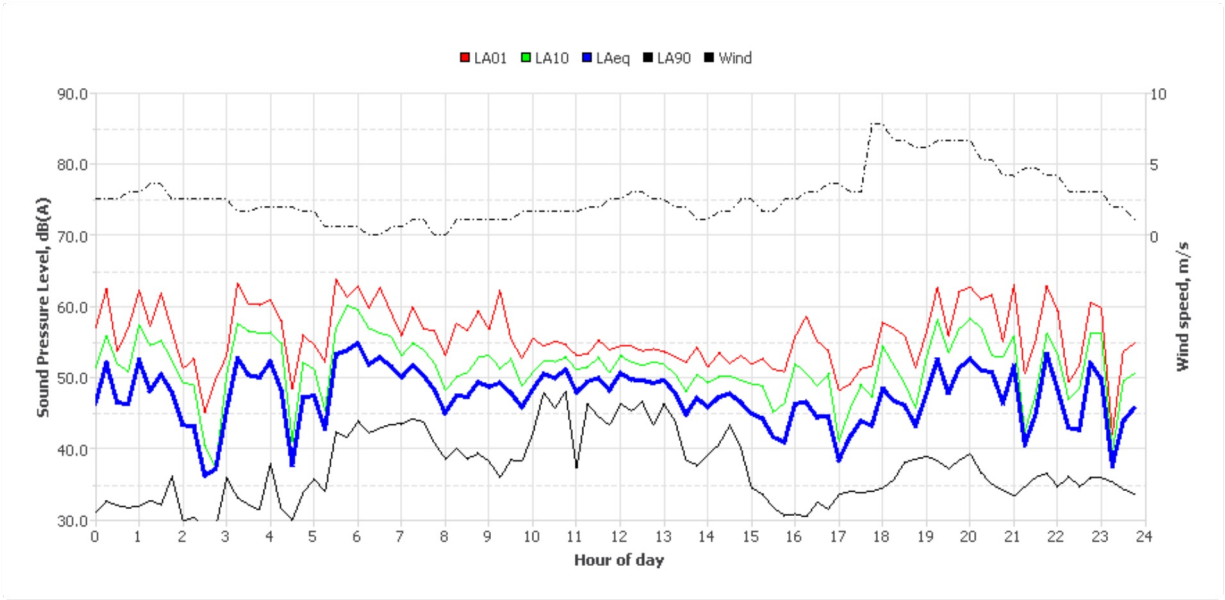
Note: Results denoted with '-' do not contain enough valid data for a value to be calculated. The data has been excluded either manually or automatically as a result of adverse weather conditions.

Logger Location	Logger Deployment Photo
	

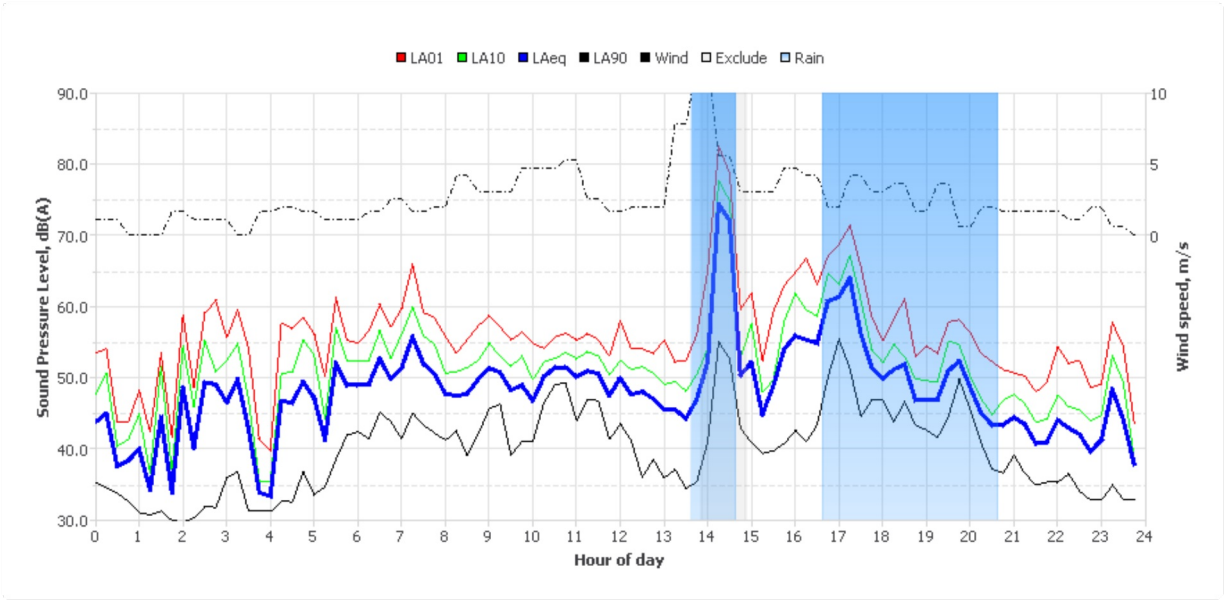
Friday, 02 Mar 2018



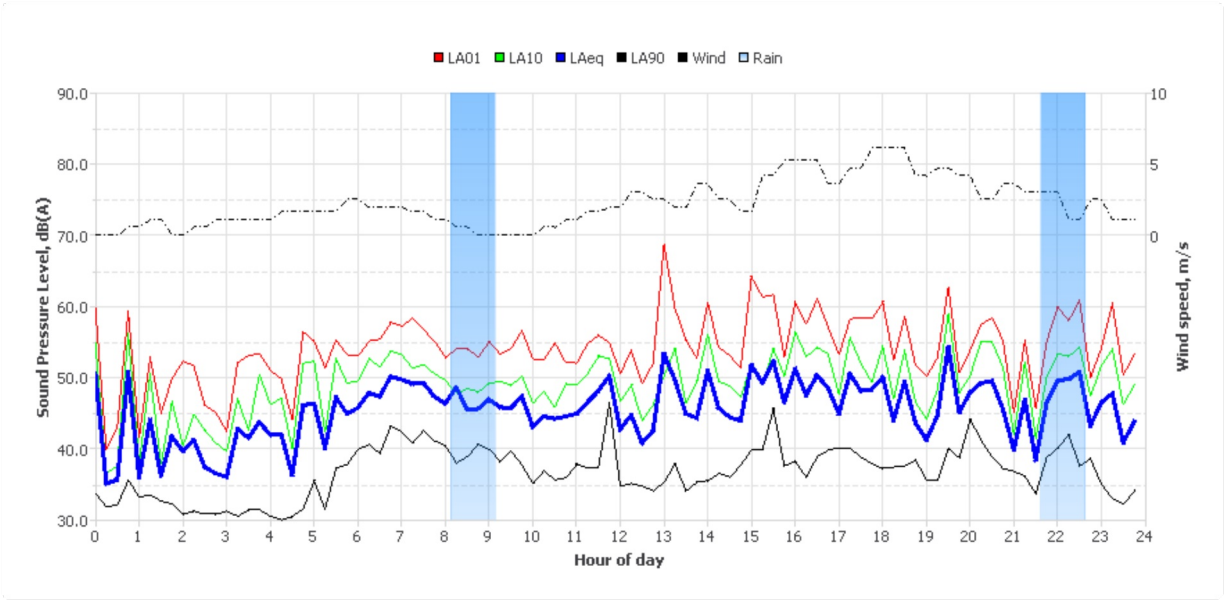
Saturday, 03 Mar 2018



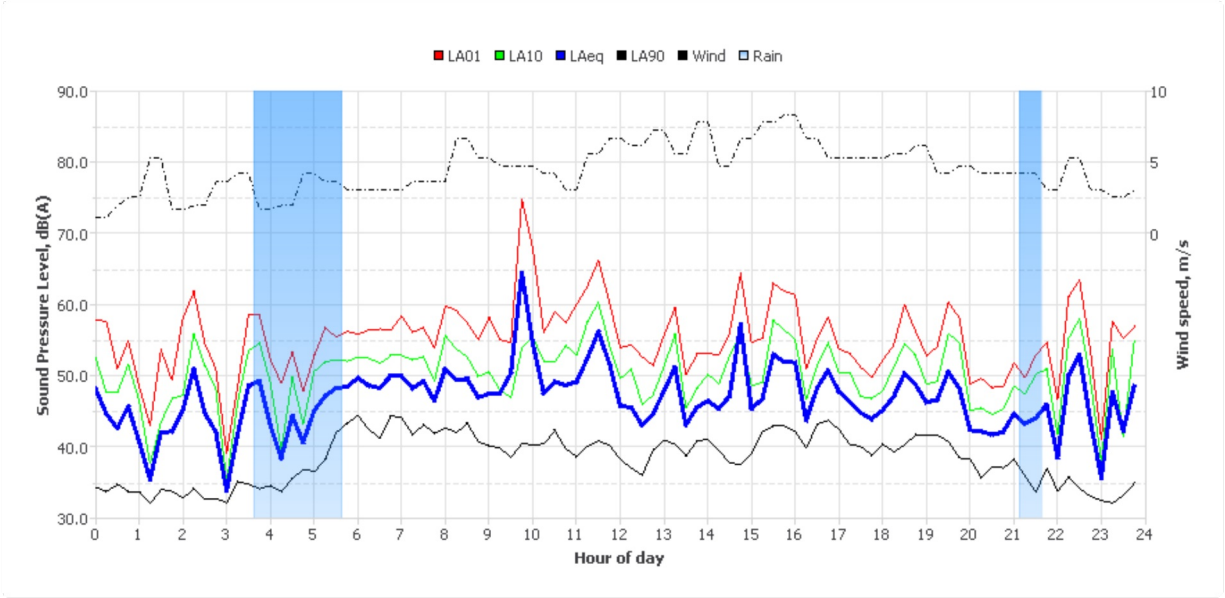
Sunday, 04 Mar 2018



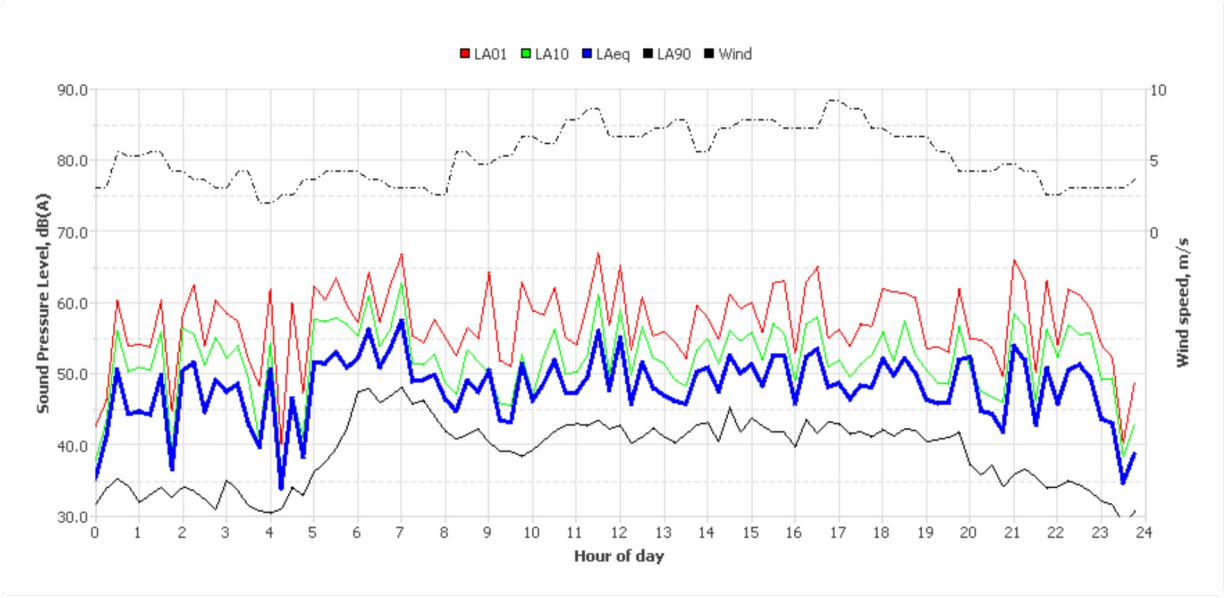
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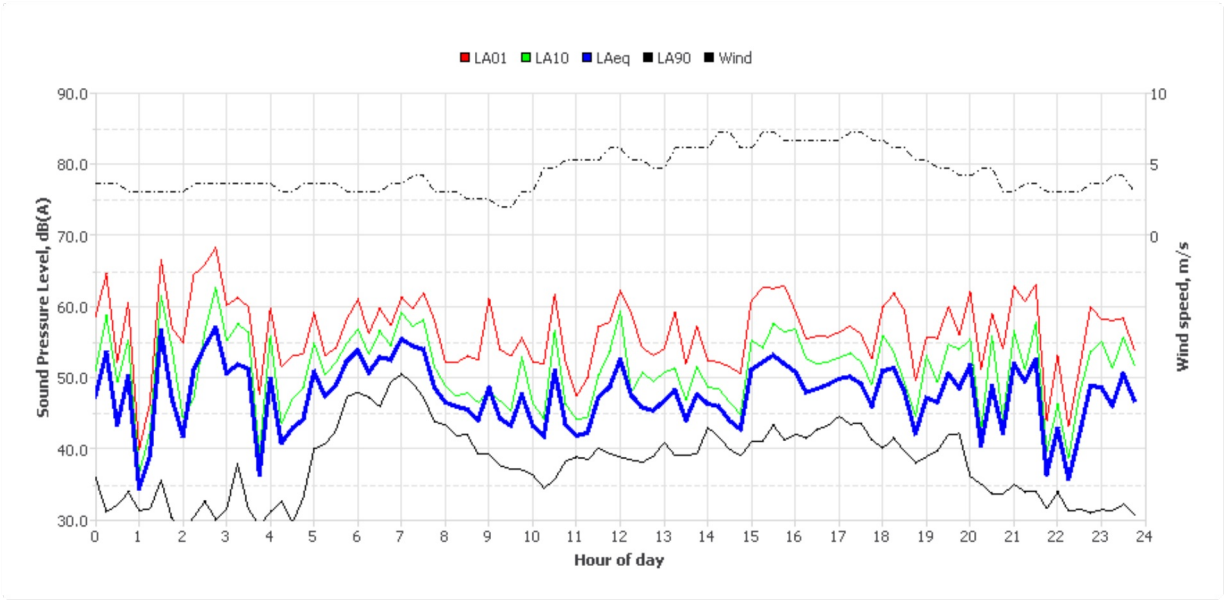
Tuesday, 06 Mar 2018



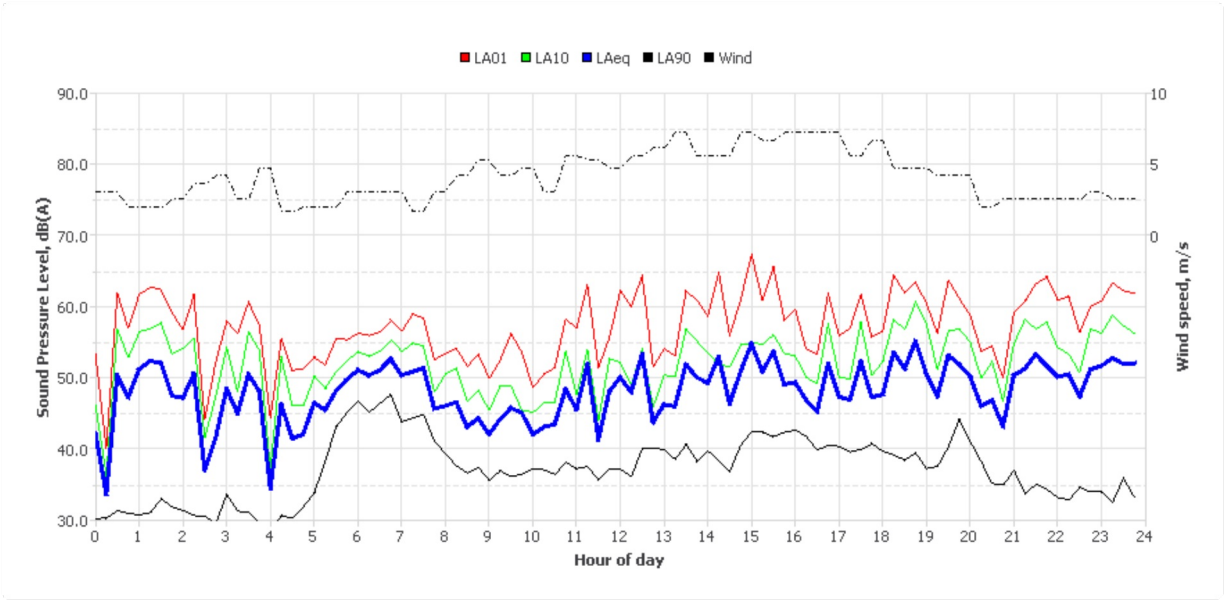
Wednesday, 07 Mar 2018



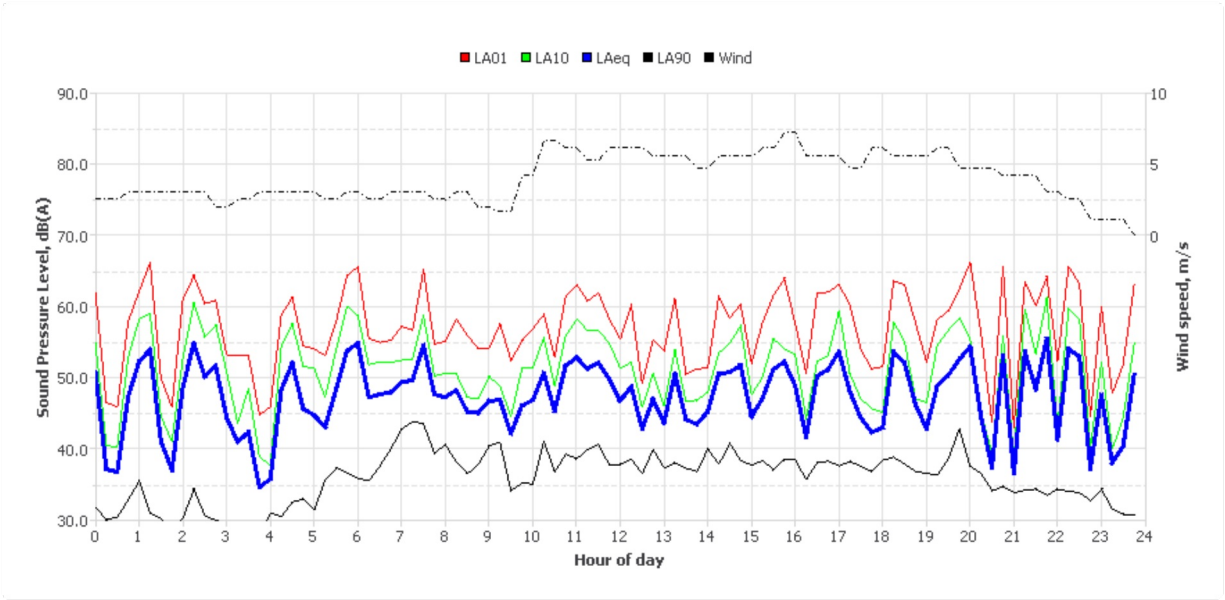
Thursday, 08 Mar 2018



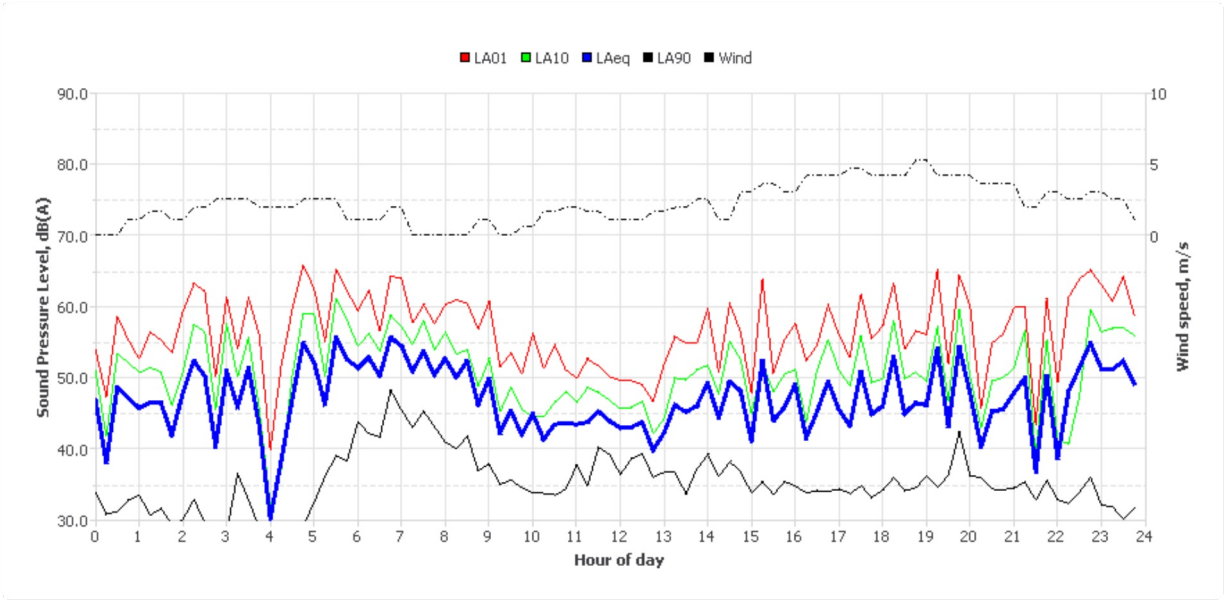
Friday, 09 Mar 2018



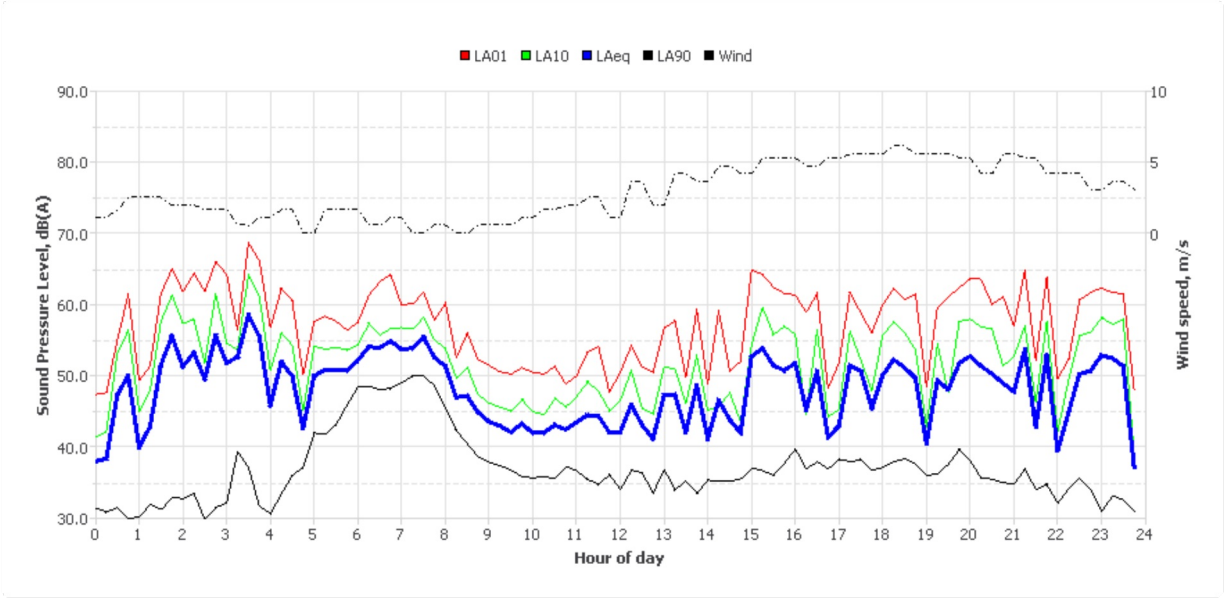
Saturday, 10 Mar 2018



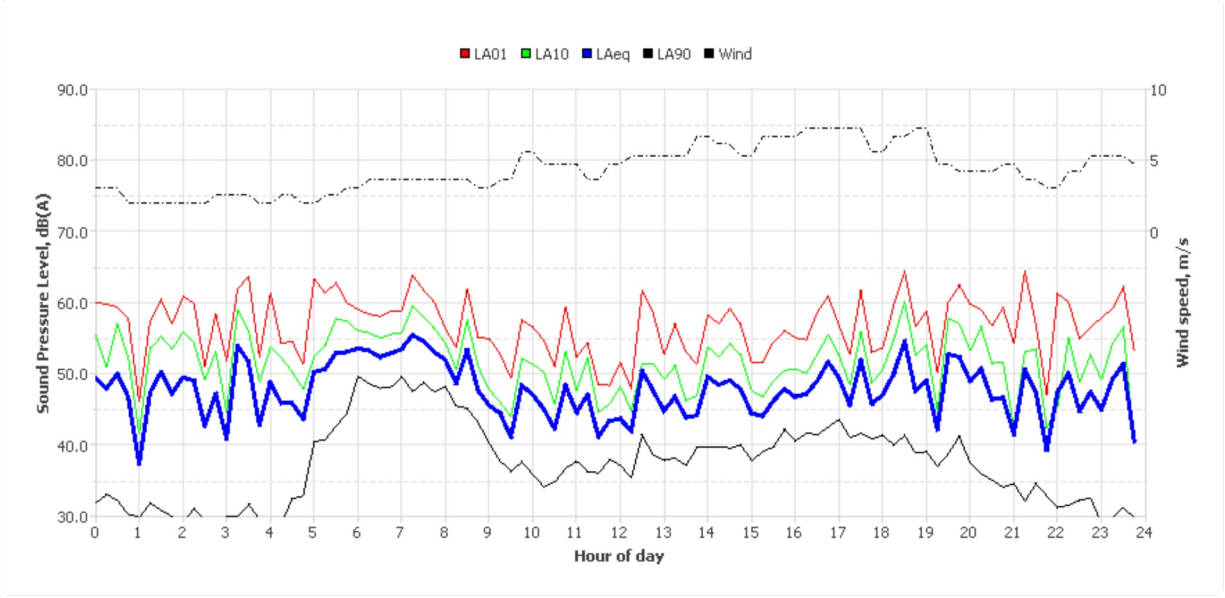
Sunday, 11 Mar 2018



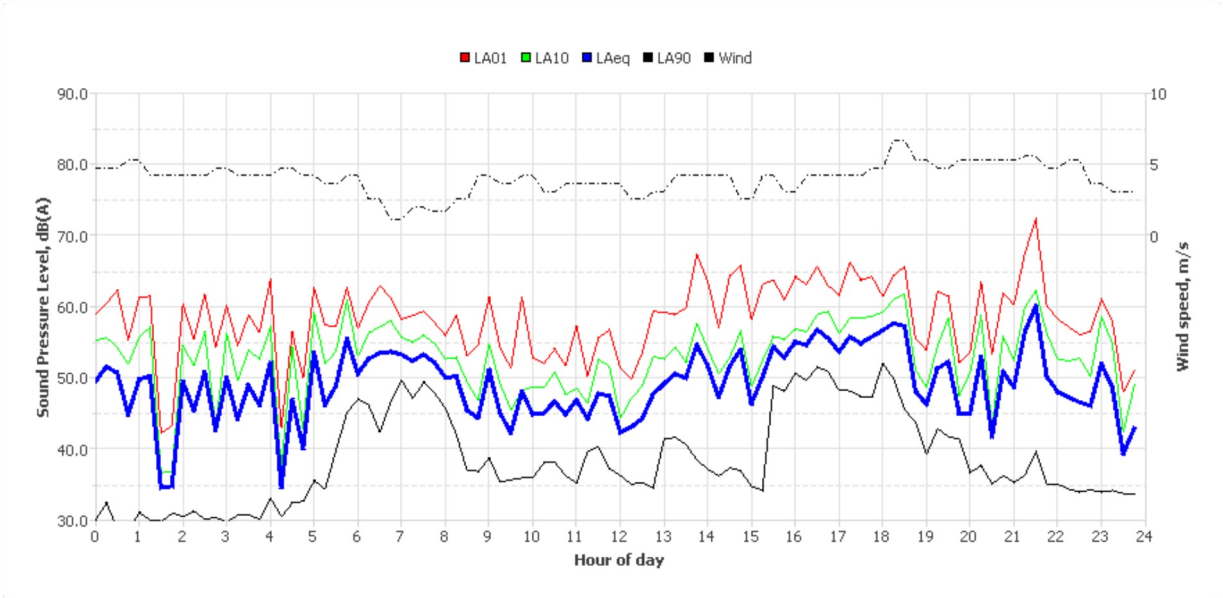
Monday, 12 Mar 2018



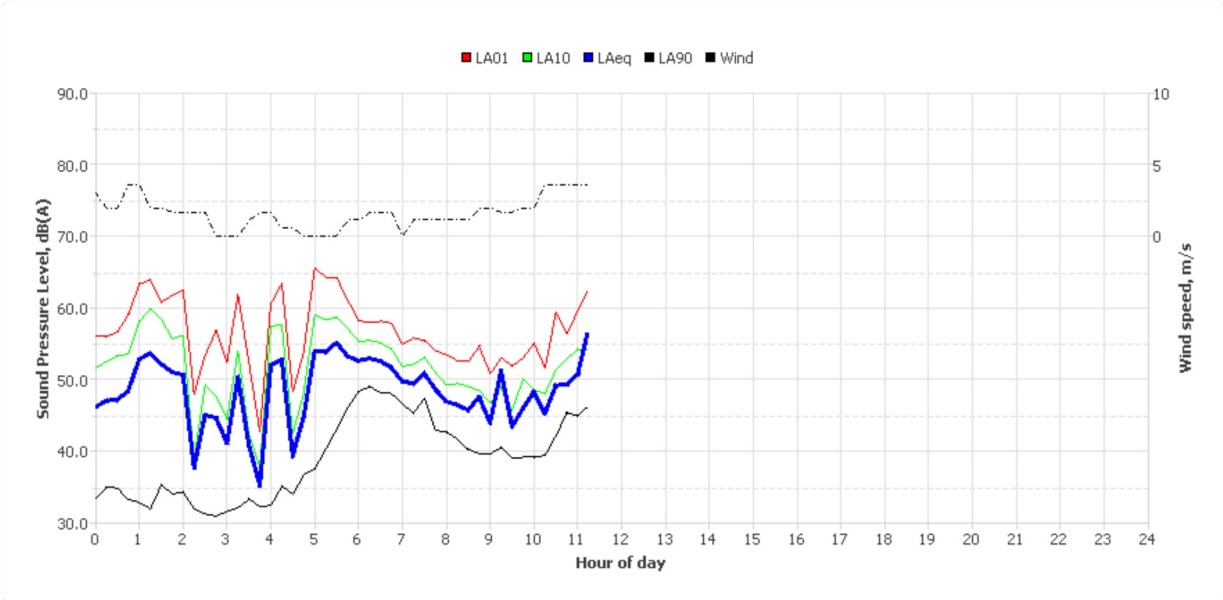
Tuesday, 13 Mar 2018



Wednesday, 14 Mar 2018



Thursday, 15 Mar 2018



Noise Logger Report

L4 - 3 Maison Dieu Road, Gowrie

Item	Information
Logger Type	Rion NL52
Serial number	553966
Address	L4 - 3 Maison Dieu Road, Gowrie
Location	In Field
Facade / Free Field	Free Field
Environment	Freight train pass-by 71dB(A), carriages 54dB(A). Distant road traffic noise from New England Highway can be heard between coal trains which are both controlling background levels. Light winds. Bird noise also audible from nearby trees. Dog barking barely audible. Whipper snipper audible.

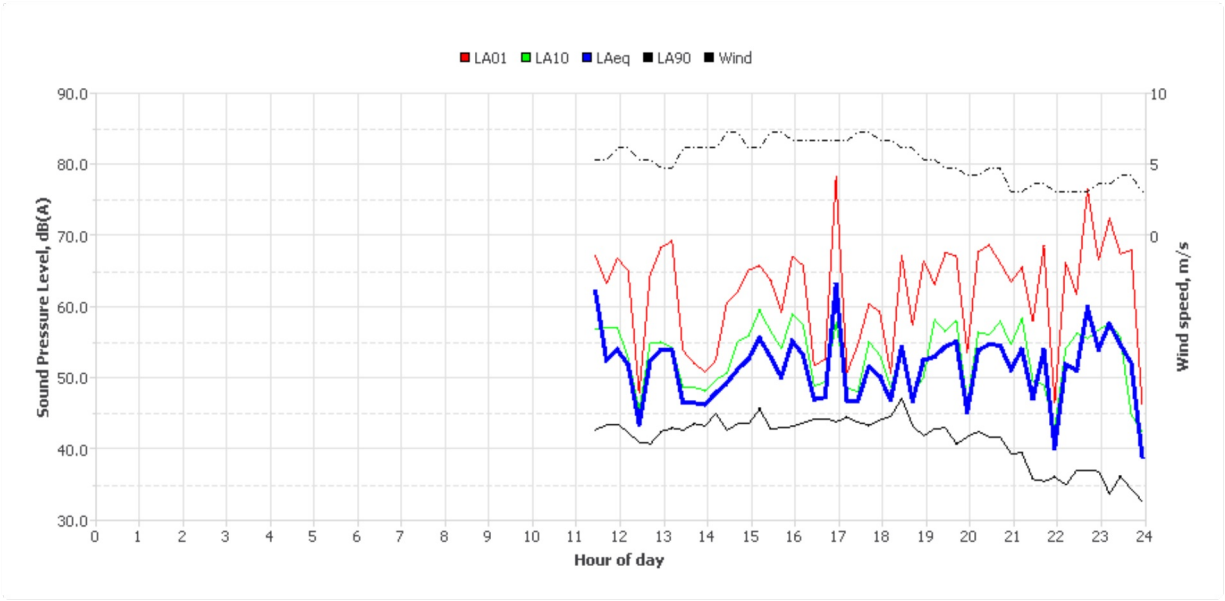
Measured noise levels

Logging Date	L_{Aeq} Day	Eve	Night	ABL Day	Eve	Night	$L_{Aeq,15hr}$	$L_{Aeq,9hr}$
Thu Mar 8 2018	56	53	55	-	-	-	54	55
Fri Mar 9 2018	54	52	54	-	-	33	54	54
Sat Mar 10 2018	52	54	53	-	-	32	53	53
Sun Mar 11 2018	51	54	55	34	39	27	52	55
Mon Mar 12 2018	55	53	56	36	38	34	55	56
Tue Mar 13 2018	53	53	54	-	-	32	53	54
Wed Mar 14 2018	53	55	55	38	39	32	54	55
Thu Mar 15 2018	54	-	56	-	-	-	54	56
Summary	**54**	**53**	**55**	**36**	**39**	**32**	**54**	**55**

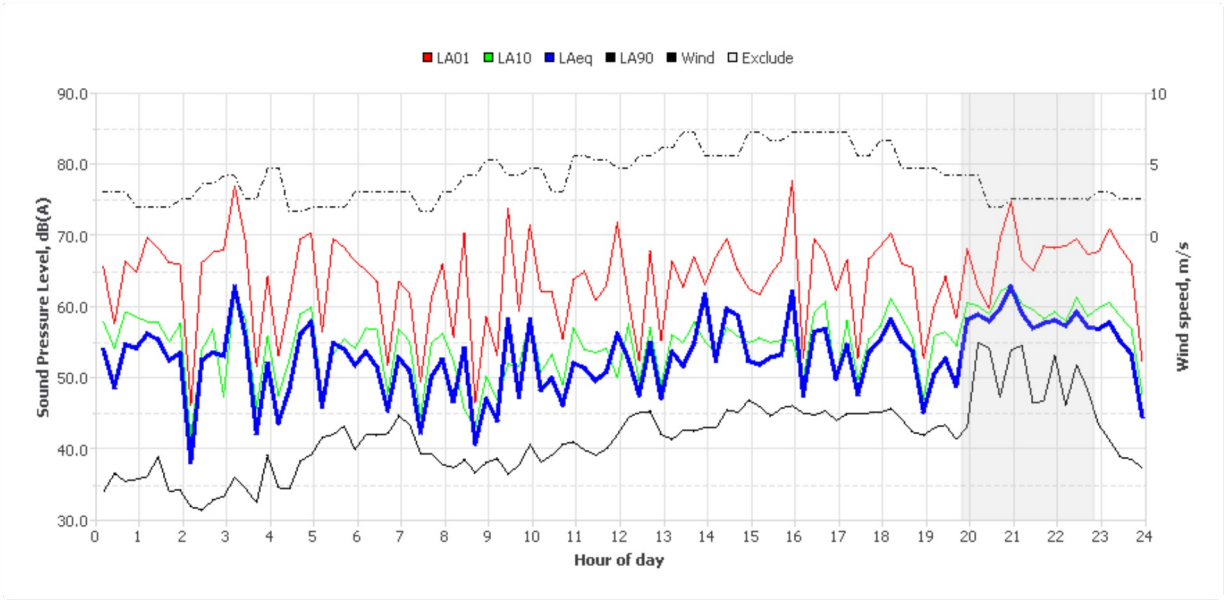
Note: Results denoted with '-' do not contain enough valid data for a value to be calculated. The data has been excluded either manually or automatically as a result of adverse weather conditions.

Logger Location	Logger Deployment Photo
	

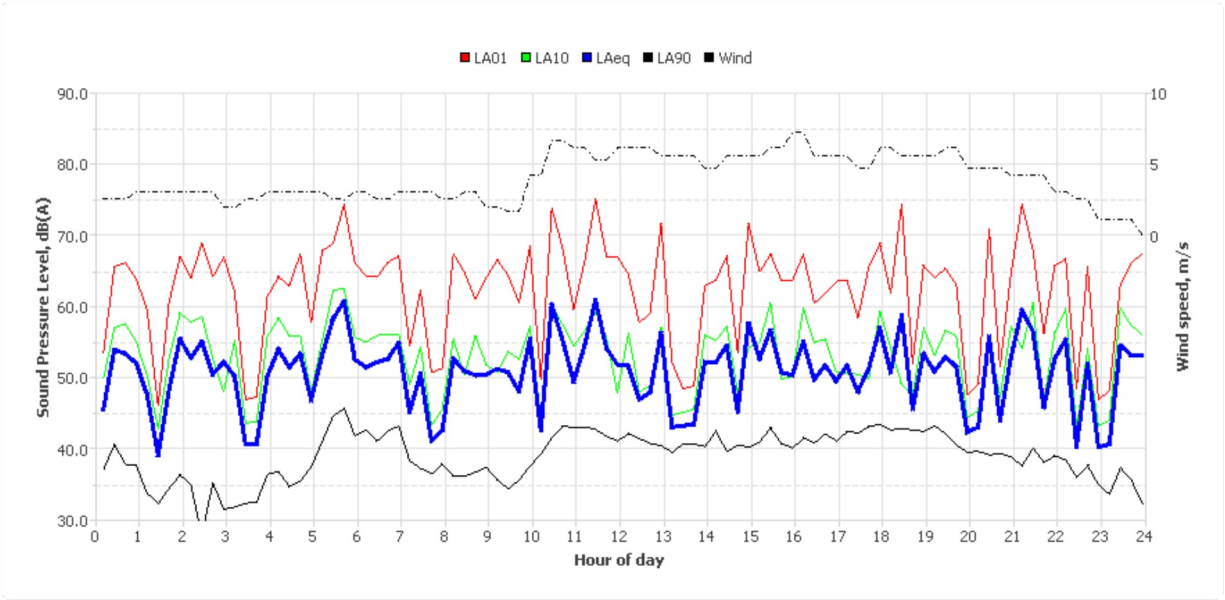
Thursday, 08 Mar 2018



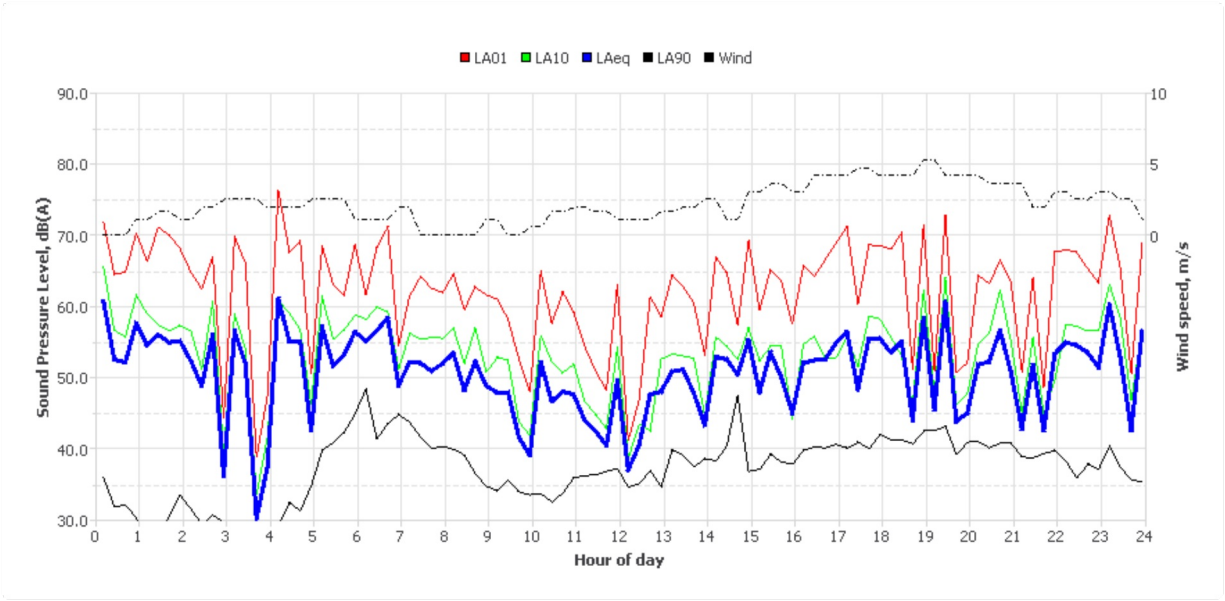
Friday, 09 Mar 2018



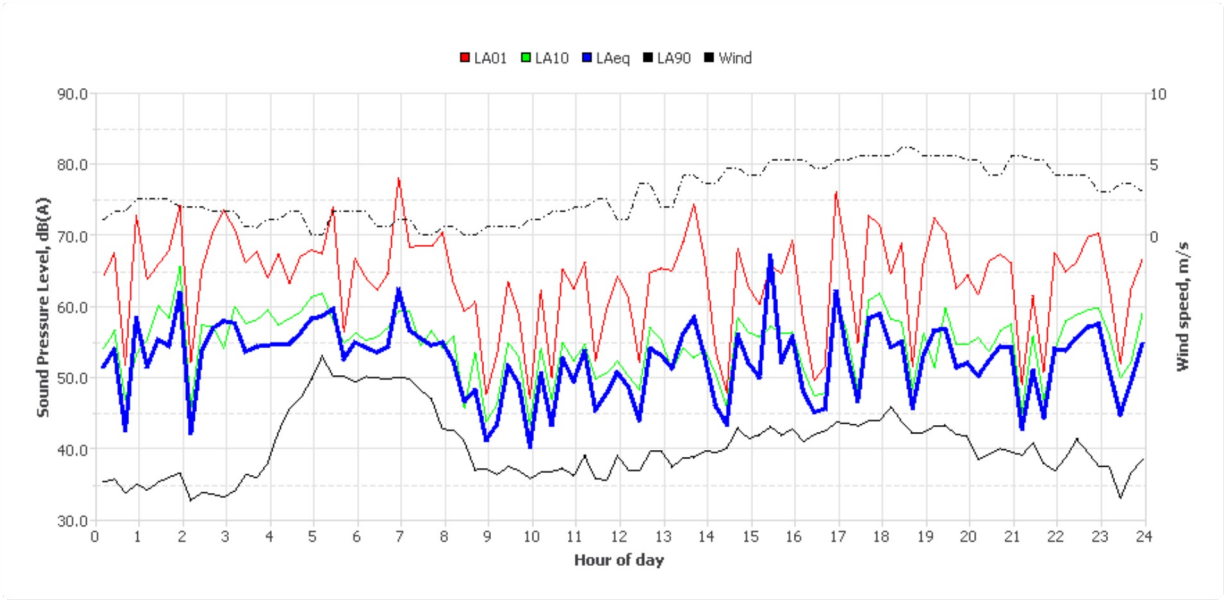
Saturday, 10 Mar 2018



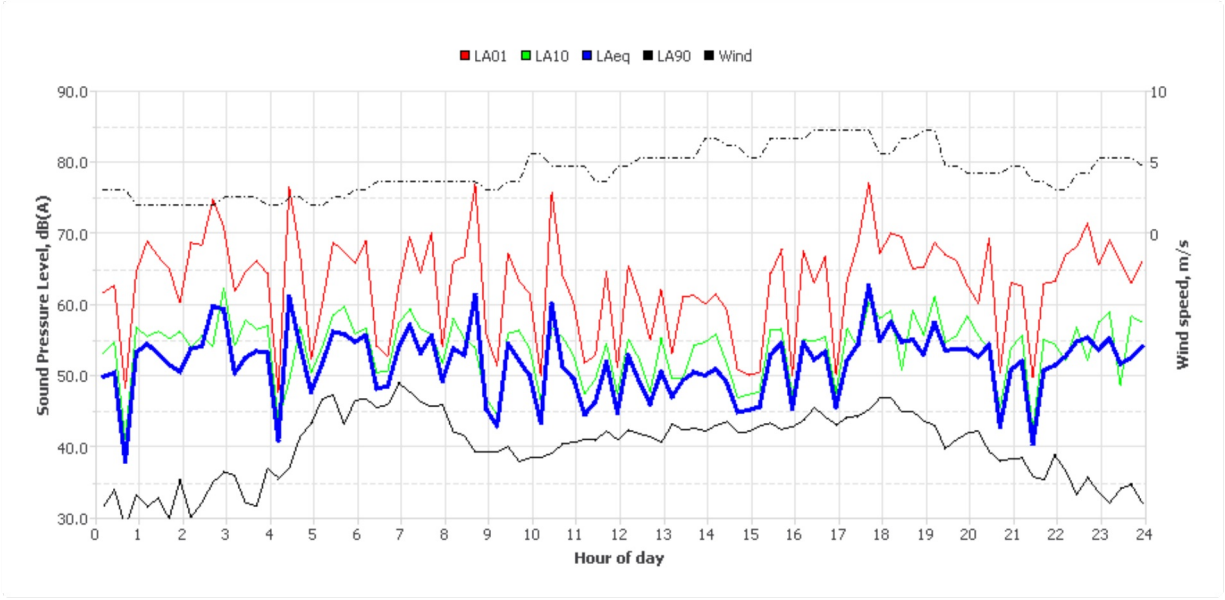
Sunday, 11 Mar 2018



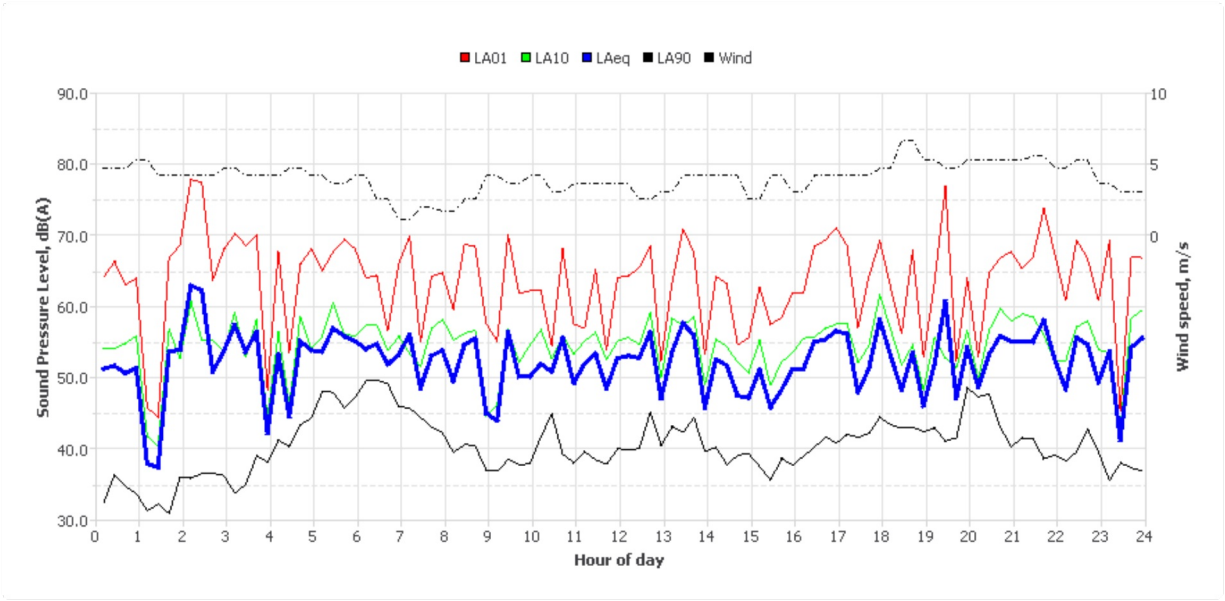
Monday, 12 Mar 2018



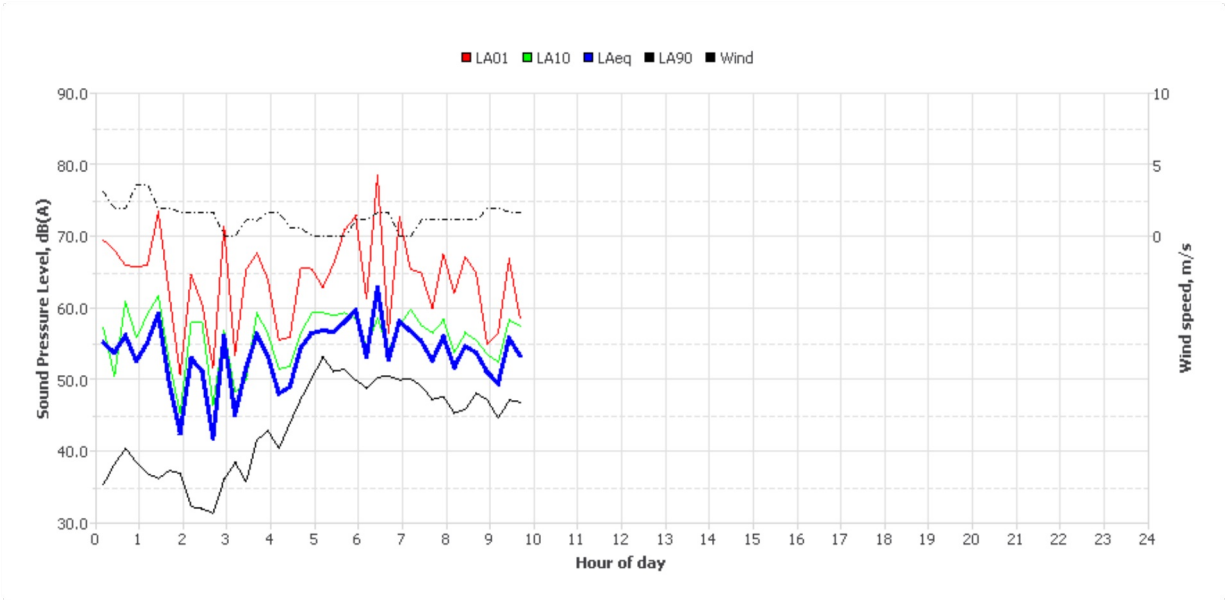
Tuesday, 13 Mar 2018



Wednesday, 14 Mar 2018



Thursday, 15 Mar 2018



Noise Logger Report

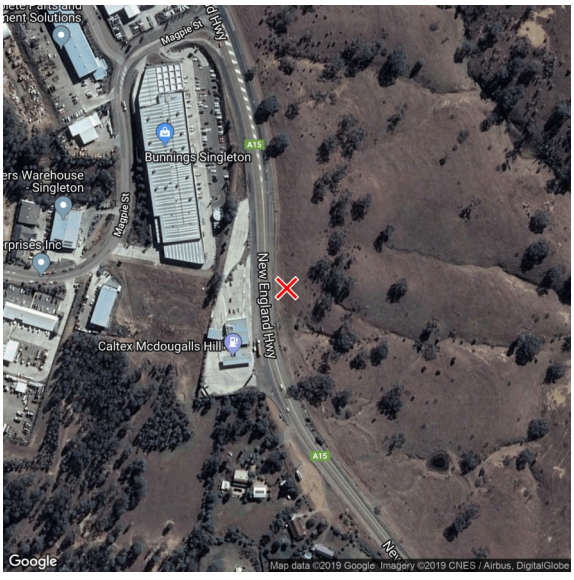
L5 - 4850 New England Highway, McDougalls Hill

Item	Information
Logger Type	Rion NL21
Serial number	765701
Address	L5 - 4850 New England Highway, McDougalls Hill
Location	Field
Facade / Free Field	Free Field
Environment	Daytime - moderate winds. Road traffic dominant noise source with many heavy vehicles . Coal train just audible when no traffic nearby 50dB(A). 50dB(A) with no road traffic. 68dB(A) with traffic. Night time - Train just audible without vehicles in road. Car pass-by 73dB(A). Crickets just audible without vehicles. Truck pass-by 84dB(A). Engine braking in distance just audible.

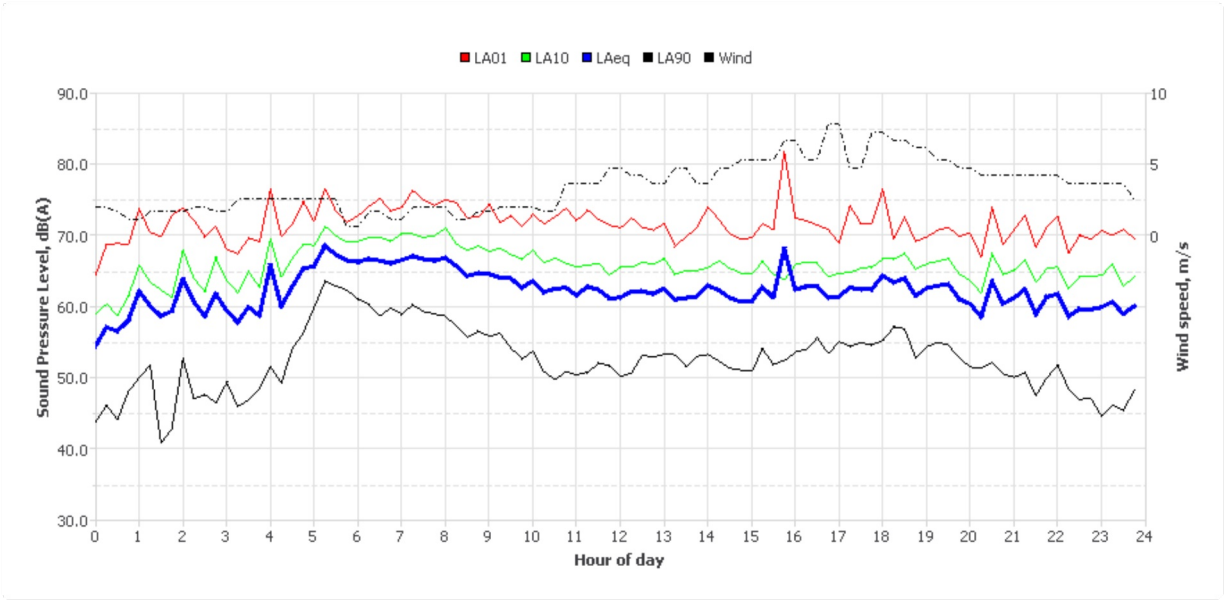
Measured noise levels

Logging Date	L_{Aeq} Day	Eve	Night	ABL Day	Eve	Night	$L_{Aeq,15hr}$	$L_{Aeq,9hr}$
Fri Mar 2 2018	63	62	63	51	-	44	63	63
Sat Mar 3 2018	62	59	62	46	-	43	61	62
Sun Mar 4 2018	62	63	60	-	-	40	62	60
Mon Mar 5 2018	65	63	63	52	-	41	65	63
Tue Mar 6 2018	66	64	63	-	-	-	66	63
Wed Mar 7 2018	66	63	64	-	-	45	65	64
Thu Mar 8 2018	65	63	64	-	-	45	64	64
Summary	**64**	**63**	**63**	**51**	**-**	**44**	**64**	**63**

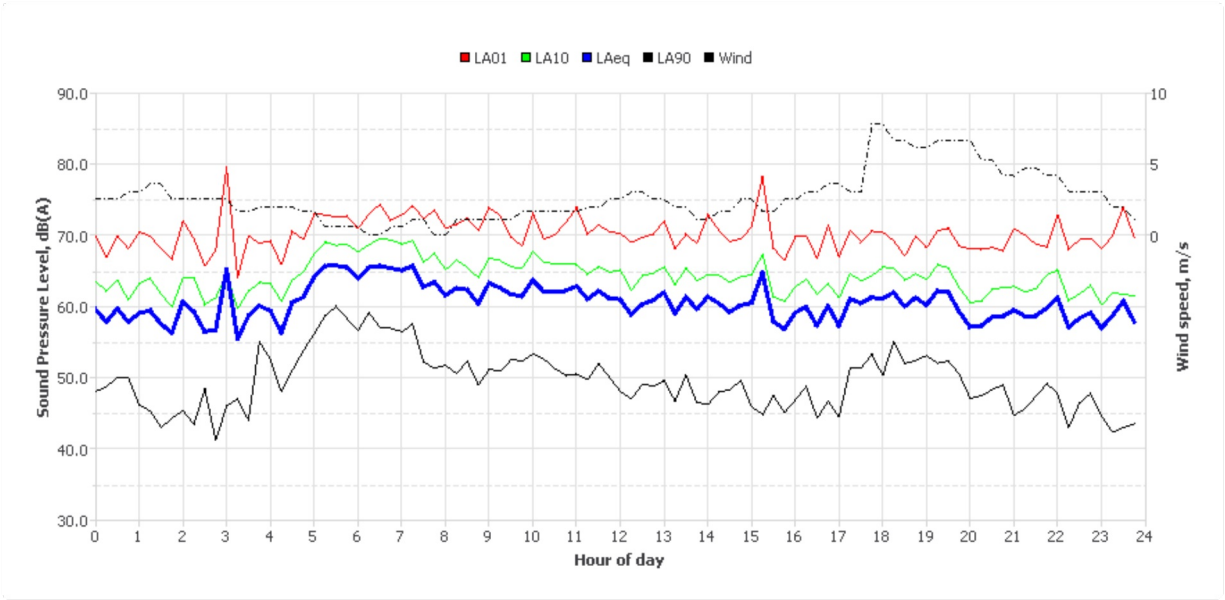
Note: Results denoted with '-' do not contain enough valid data for a value to be calculated. The data has been excluded either manually or automatically as a result of adverse weather conditions.

Logger Location	Logger Deployment Photo
	

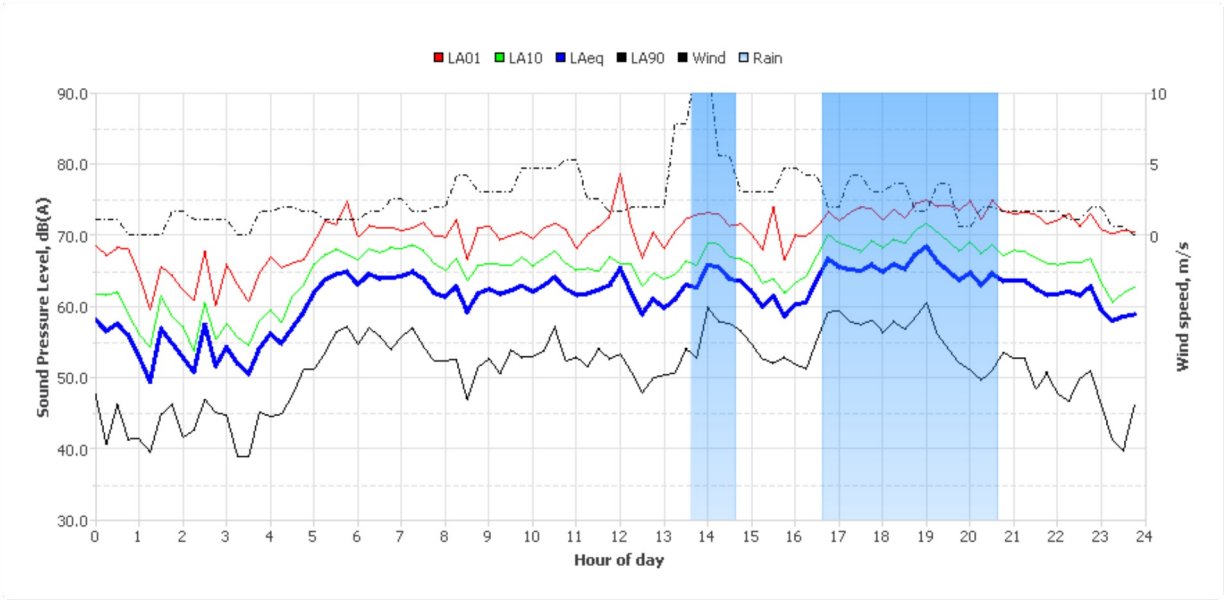
Friday, 02 Mar 2018



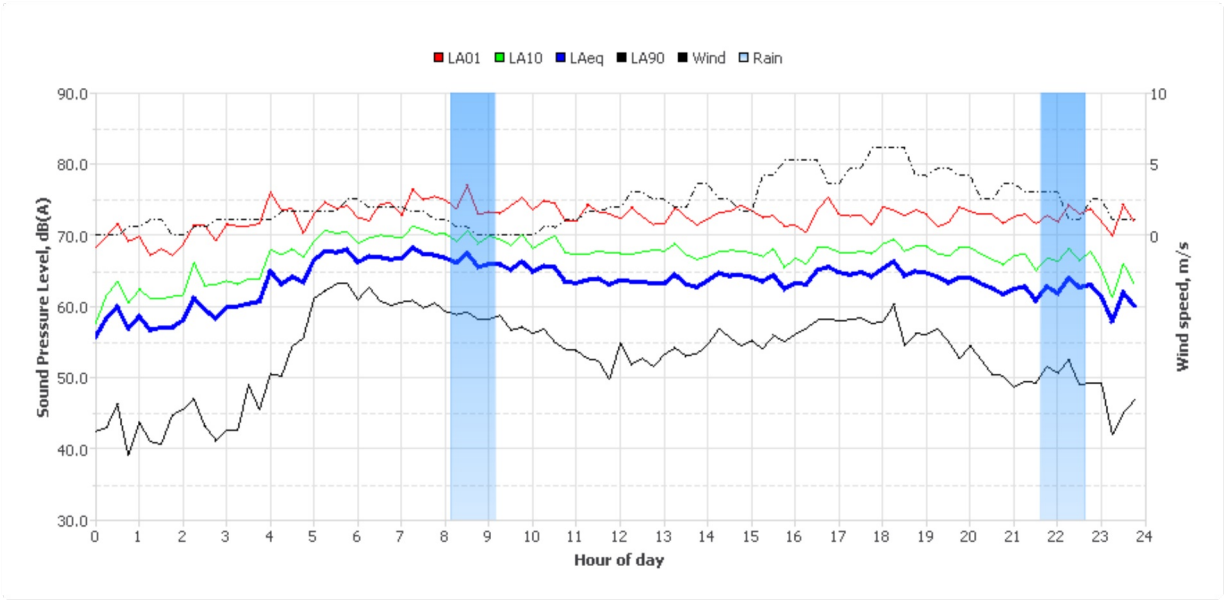
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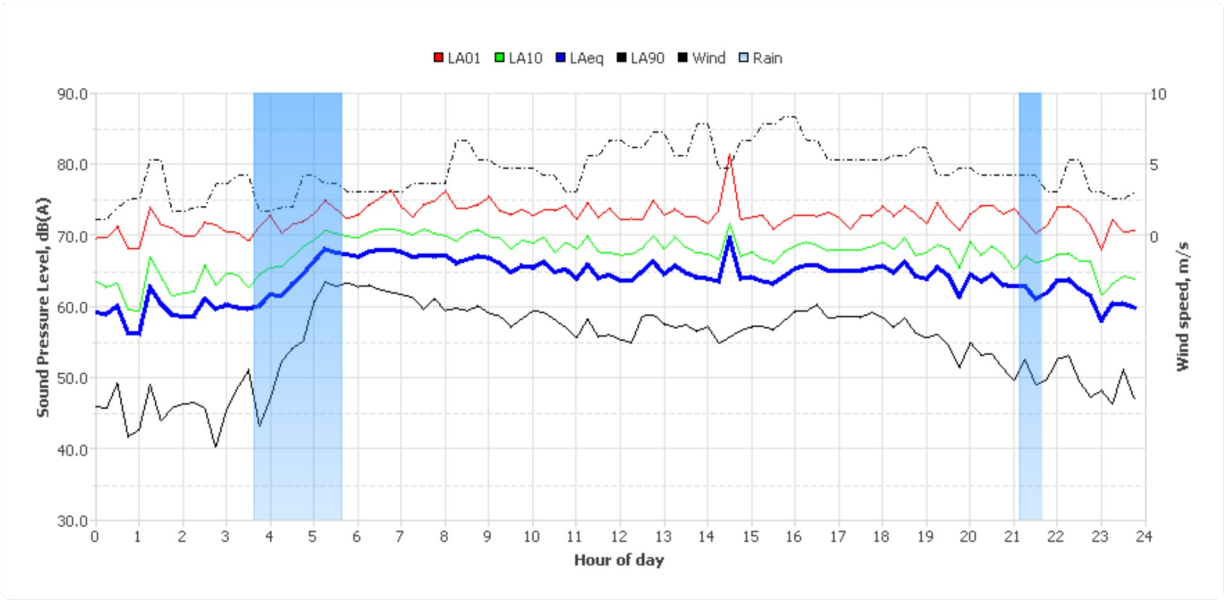
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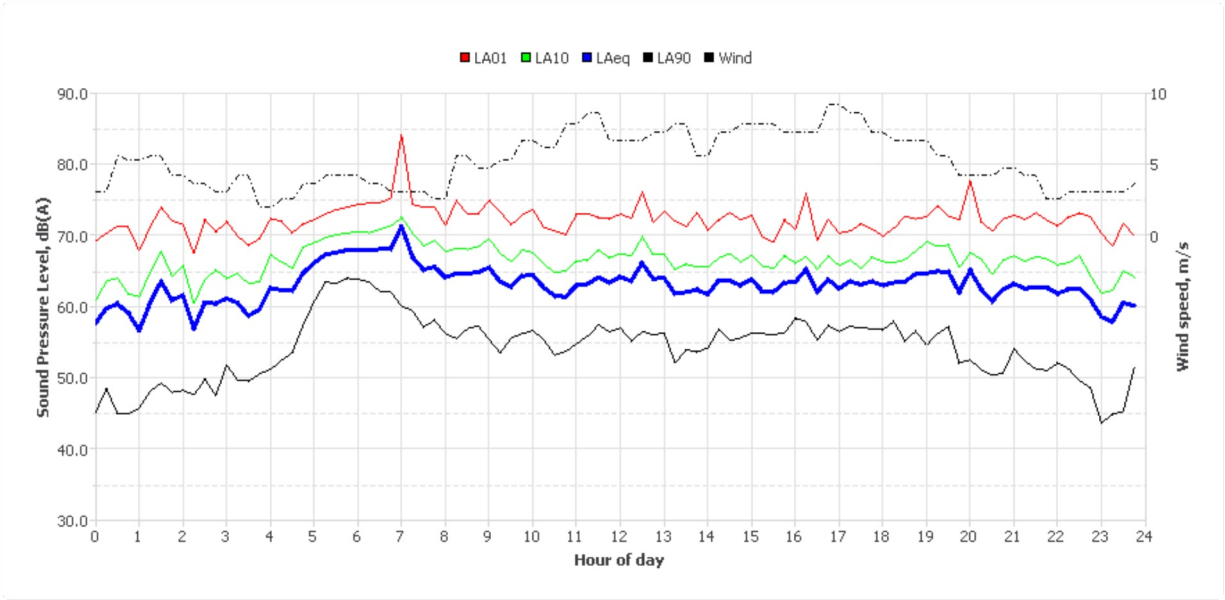
Monday, 05 Mar 2018



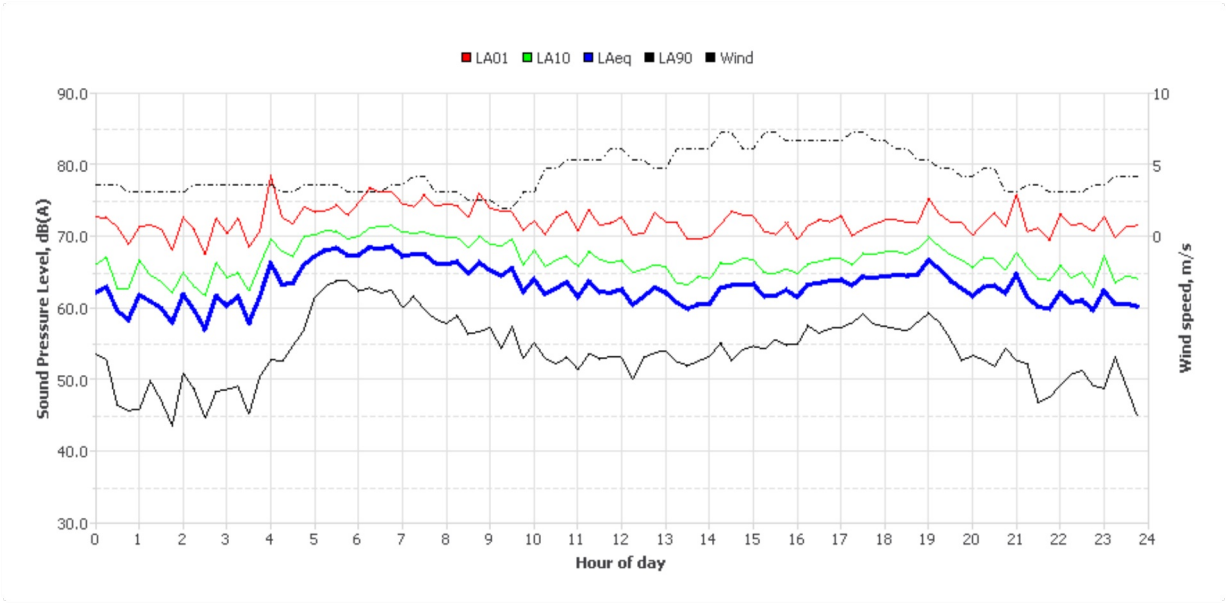
Tuesday, 06 Mar 2018



Wednesday, 07 Mar 2018



Thursday, 08 Mar 2018



Noise Logger Report

L6 - 5066 New England Highway, Rixs Creek

Item	Information
Logger Type	Rion NL42
Serial number	873123
Address	L6 - 5066 New England Highway, Rixs Creek
Location	In Field
Facade / Free Field	Free Field
Environment	New England Highway road traffic clearly audible. Buzzing insects in surrounding grass clearly audible. No windDaytime - New England highway road traffic clearly audible. Buzzing insects in surrounding grass clearly audible. No wind. Night time - Road traffic from New England clearly audible and mostly constant. Crickets dominant between vehicles.

Measured noise levels

Logging Date	L_{Aeq} Day	Eve	Night	ABL Day	Eve	Night	$L_{Aeq,15hr}$	$L_{Aeq,9hr}$
Fri Mar 2 2018	51	47	46	-	-	30	50	46
Sat Mar 3 2018	48	44	47	38	-	31	47	47
Sun Mar 4 2018	49	47	45	-	-	31	49	45
Mon Mar 5 2018	51	49	47	-	-	30	51	47
Tue Mar 6 2018	52	49	48	-	-	-	51	48
Wed Mar 7 2018	52	47	49	-	-	-	50	49
Thu Mar 8 2018	51	50	49	-	-	33	51	49
Fri Mar 9 2018	50	50	47	-	39	30	50	47
Sat Mar 10 2018	49	46	45	-	-	28	48	45
Sun Mar 11 2018	48	48	46	39	39	26	48	46
Mon Mar 12 2018	50	46	49	-	-	32	50	49
Tue Mar 13 2018	50	48	49	-	-	31	49	49
Wed Mar 14 2018	50	49	48	40	-	31	50	48
Thu Mar 15 2018	51	-	49	-	-	-	51	49
Summary	**50**	**48**	**48**	**39**	**39**	**31**	**50**	**48**

Note: Results denoted with '-' do not contain enough valid data for a value to be calculated. The data has been excluded either manually or automatically as a result of adverse weather conditions.

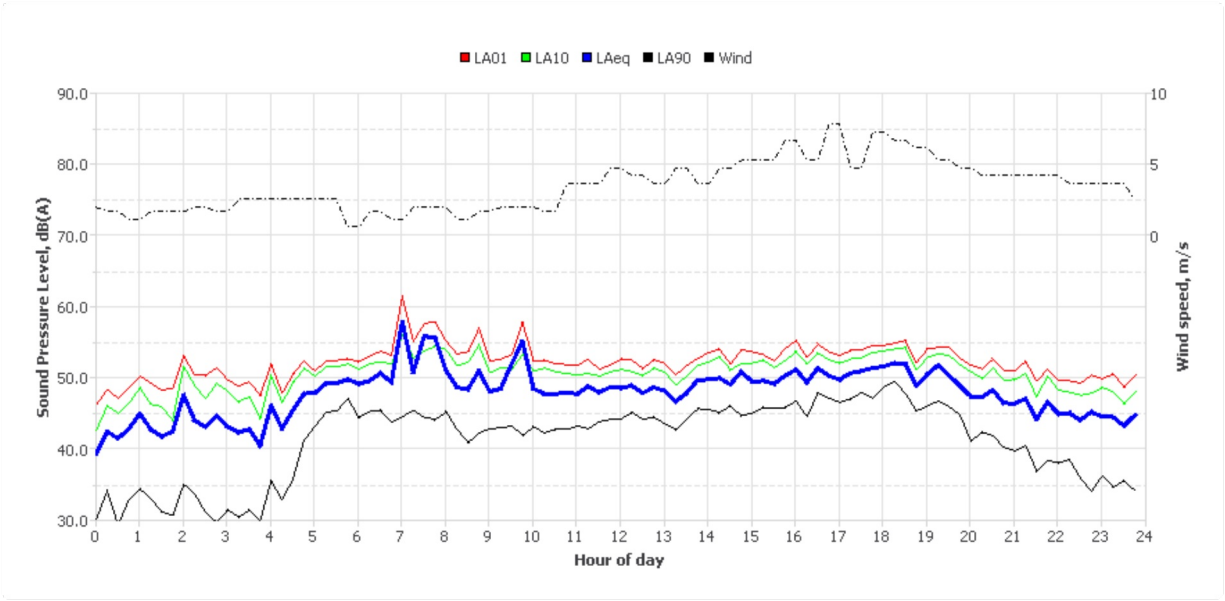
Logger Location



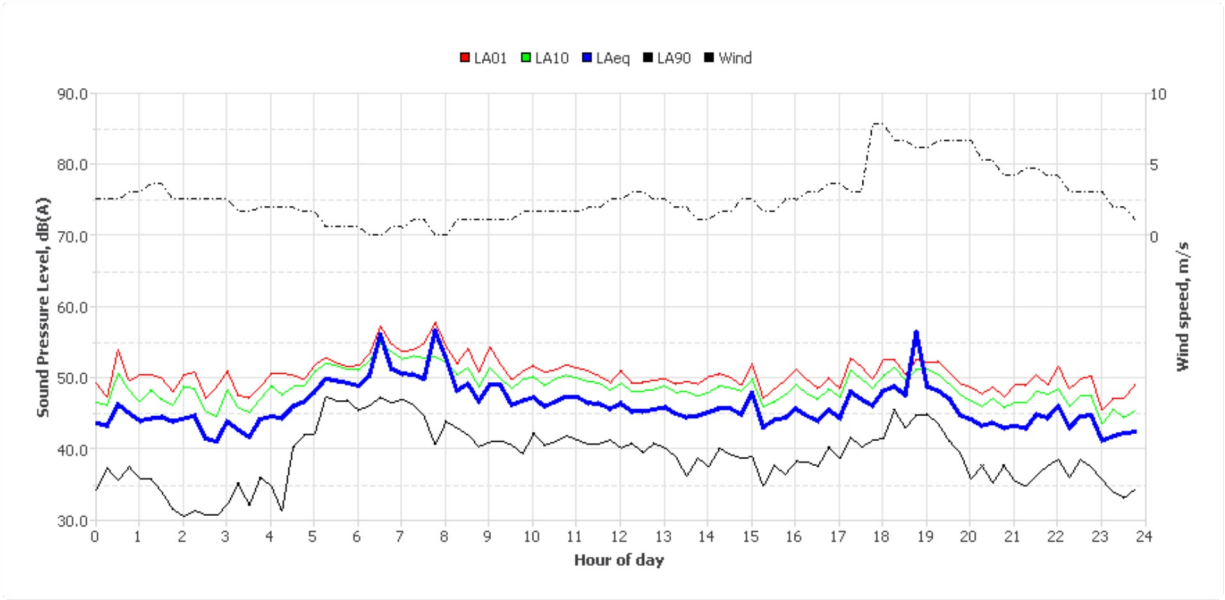
Logger Deployment Photo



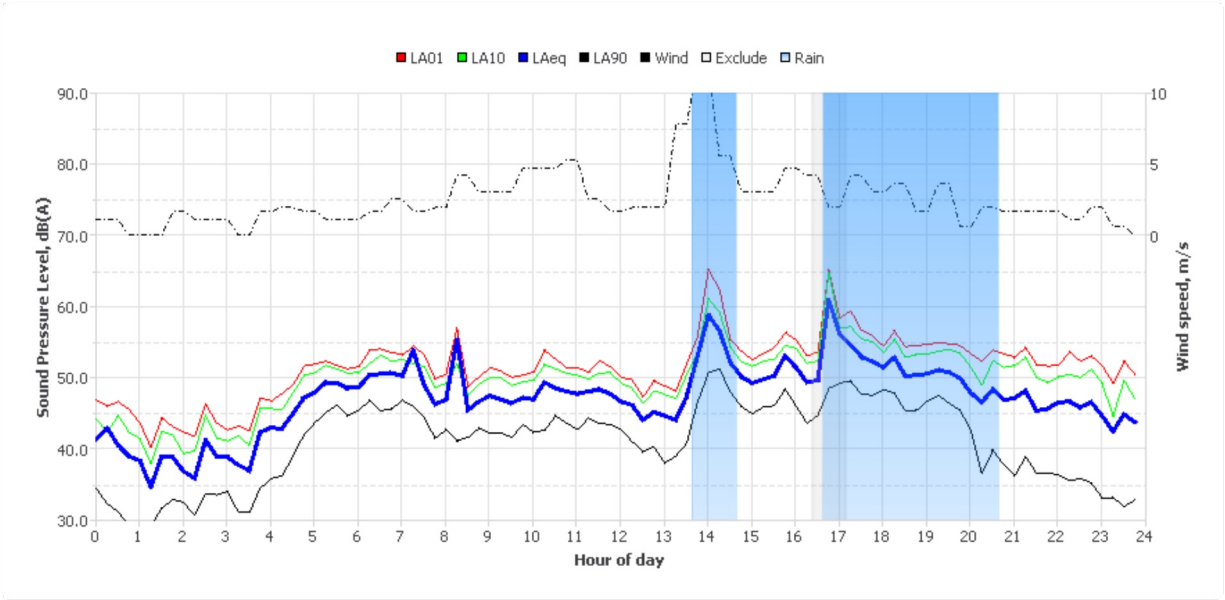
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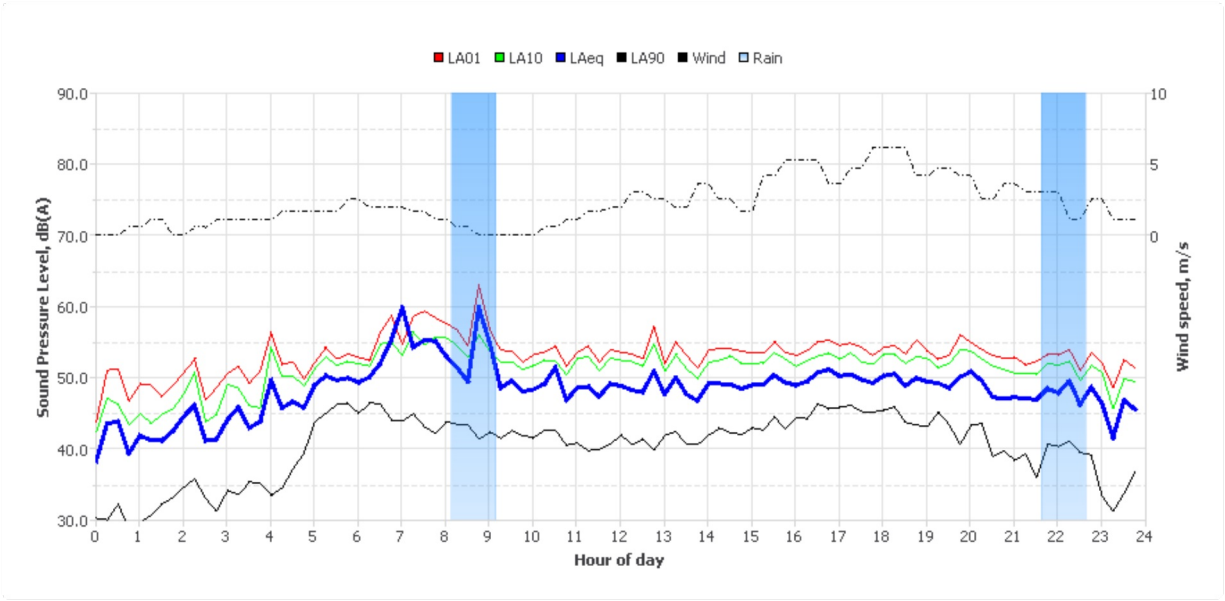
Saturday, 03 Mar 2018



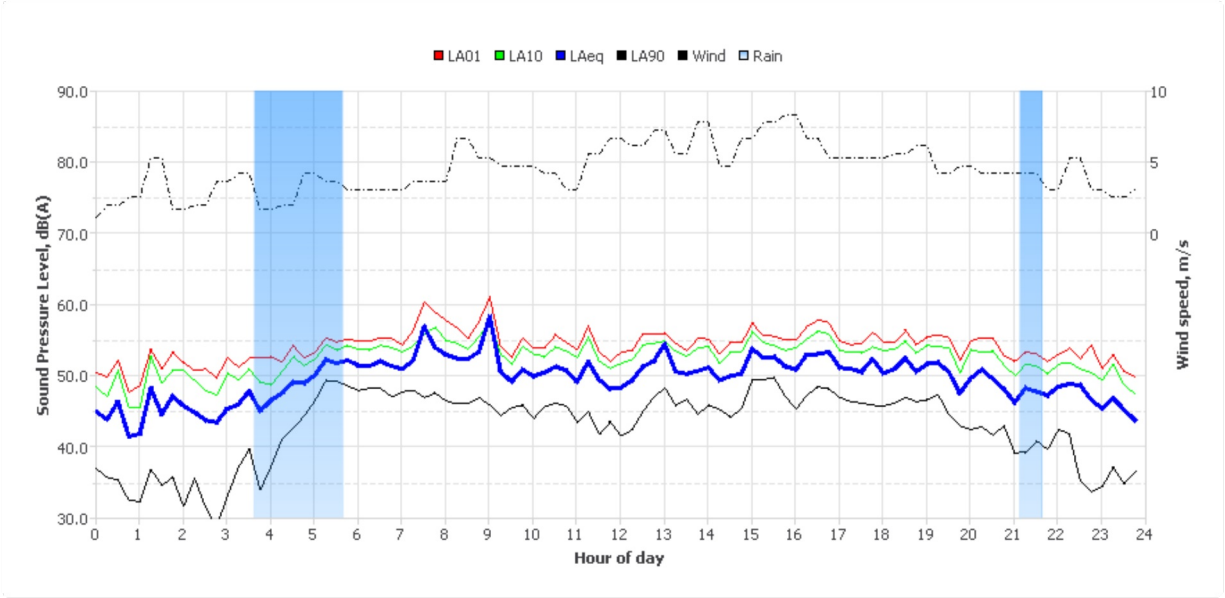
Sunday, 04 Mar 2018



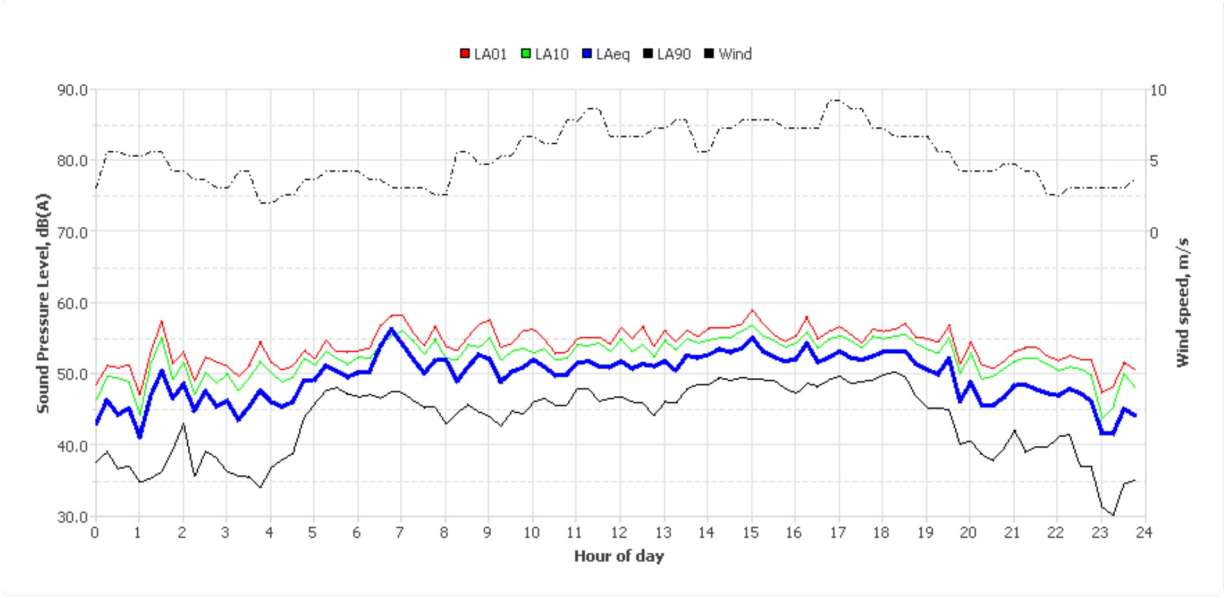
Monday, 05 Mar 2018



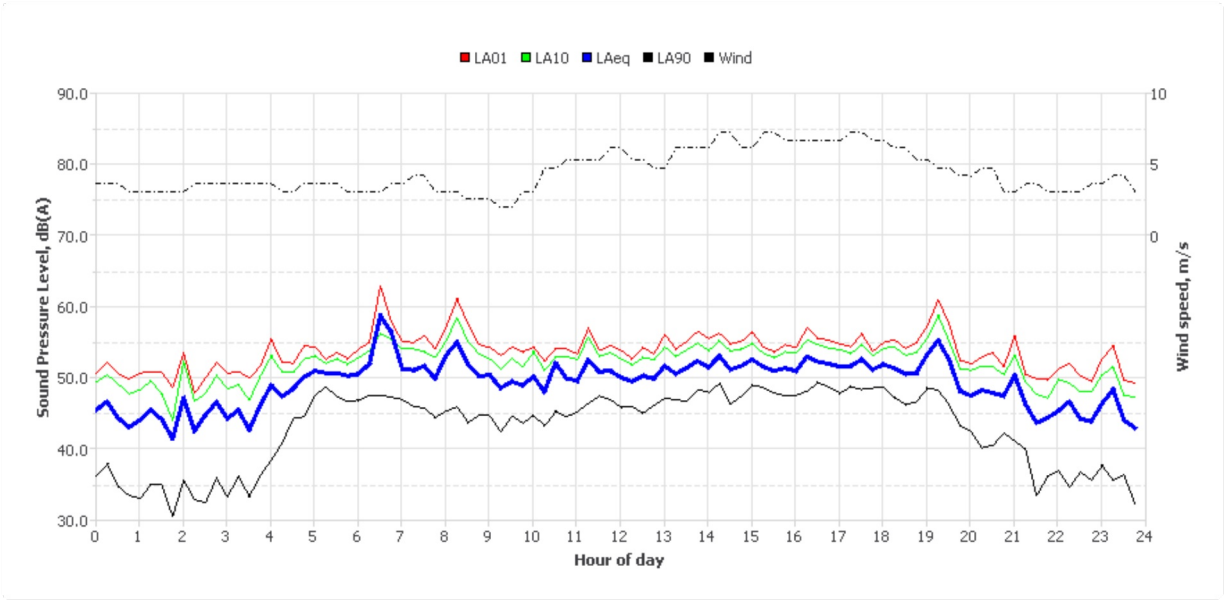
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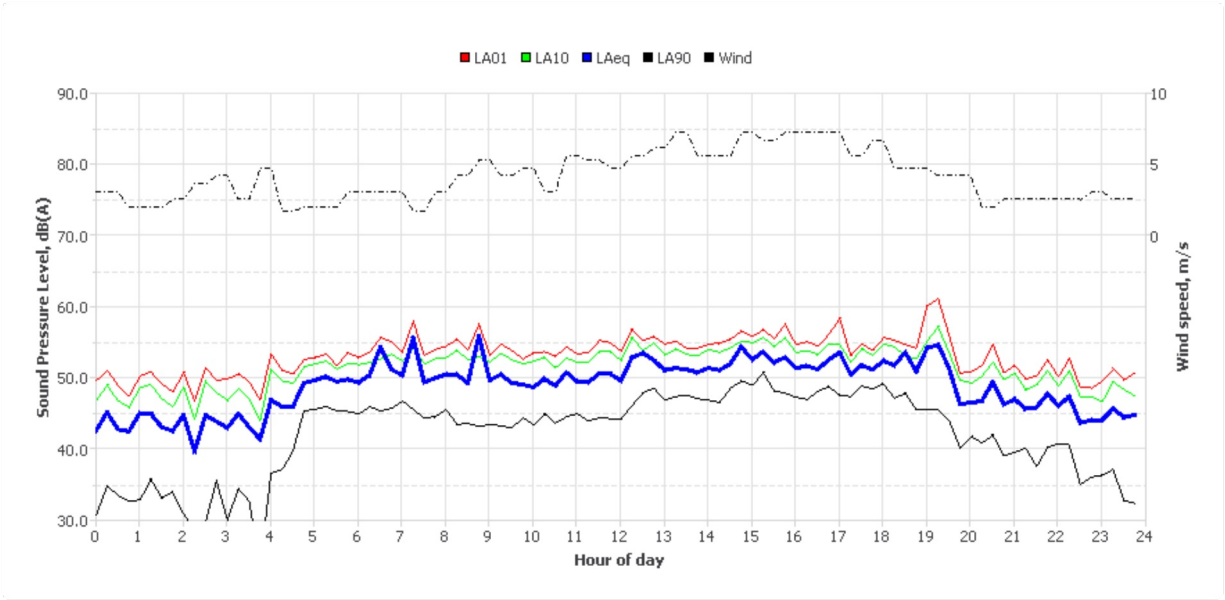
Wednesday, 07 Mar 2018



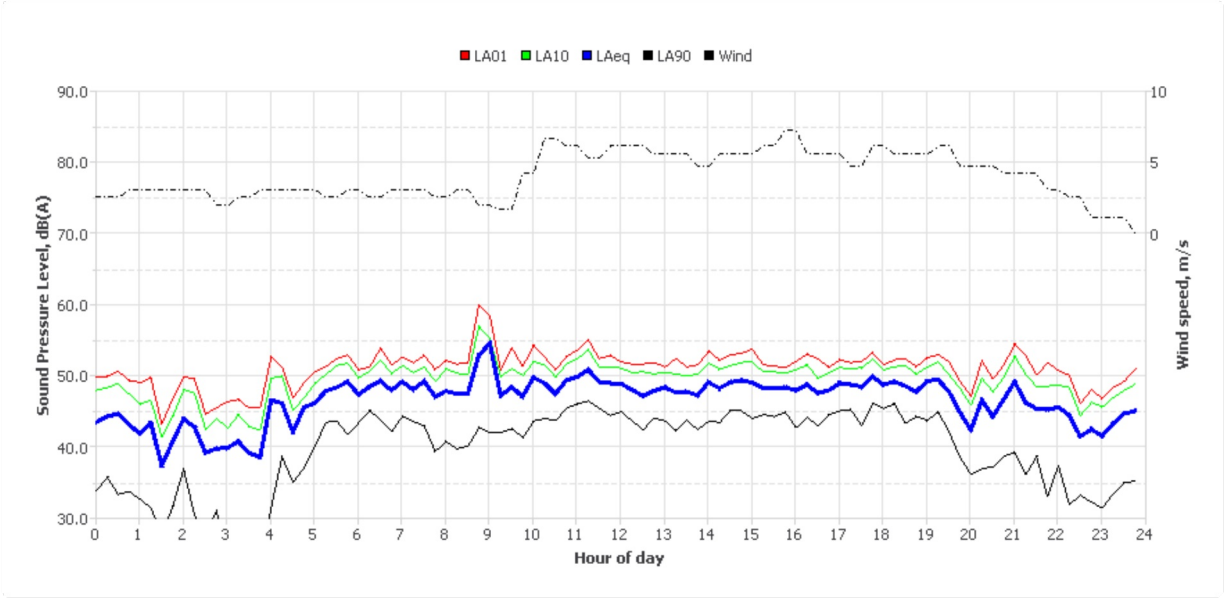
Thursday, 08 Mar 2018



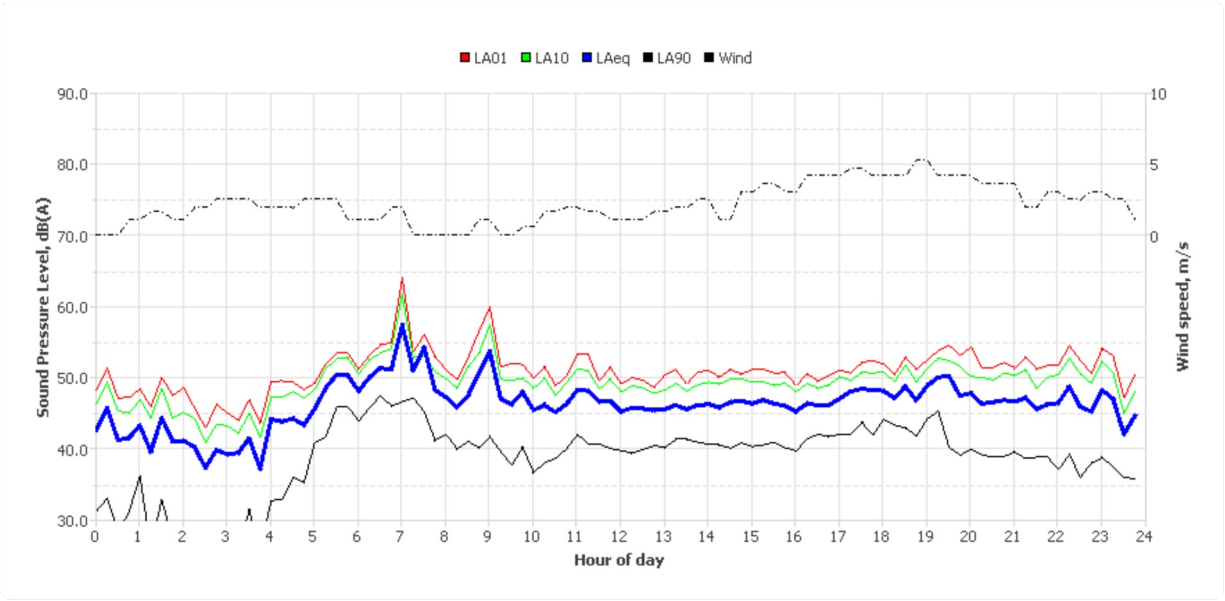
Friday, 09 Mar 2018



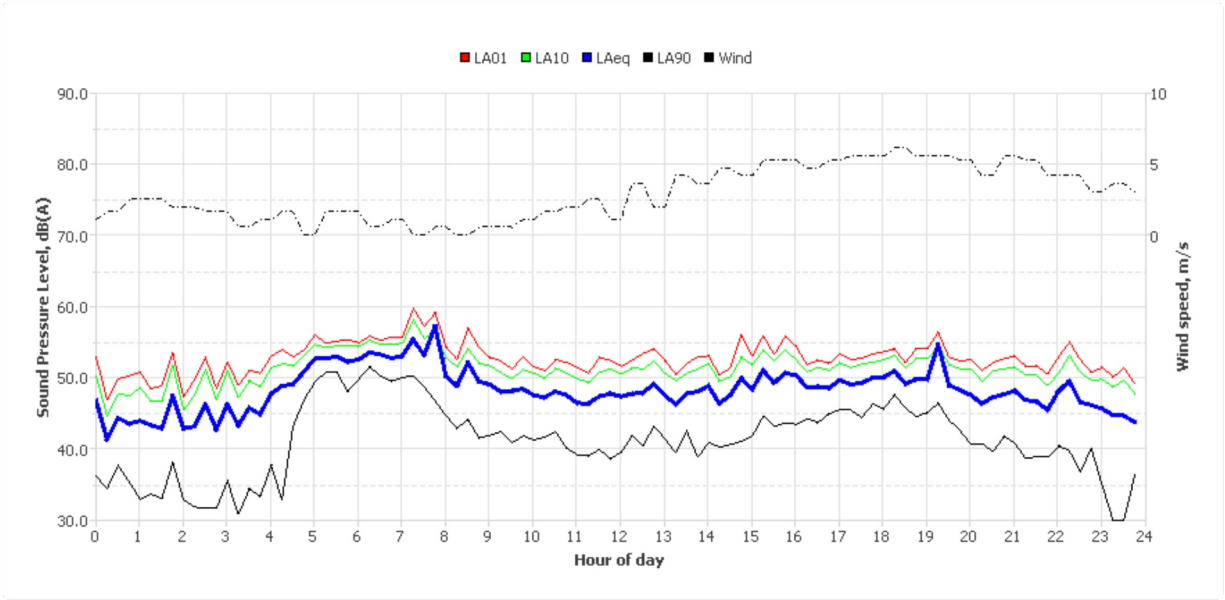
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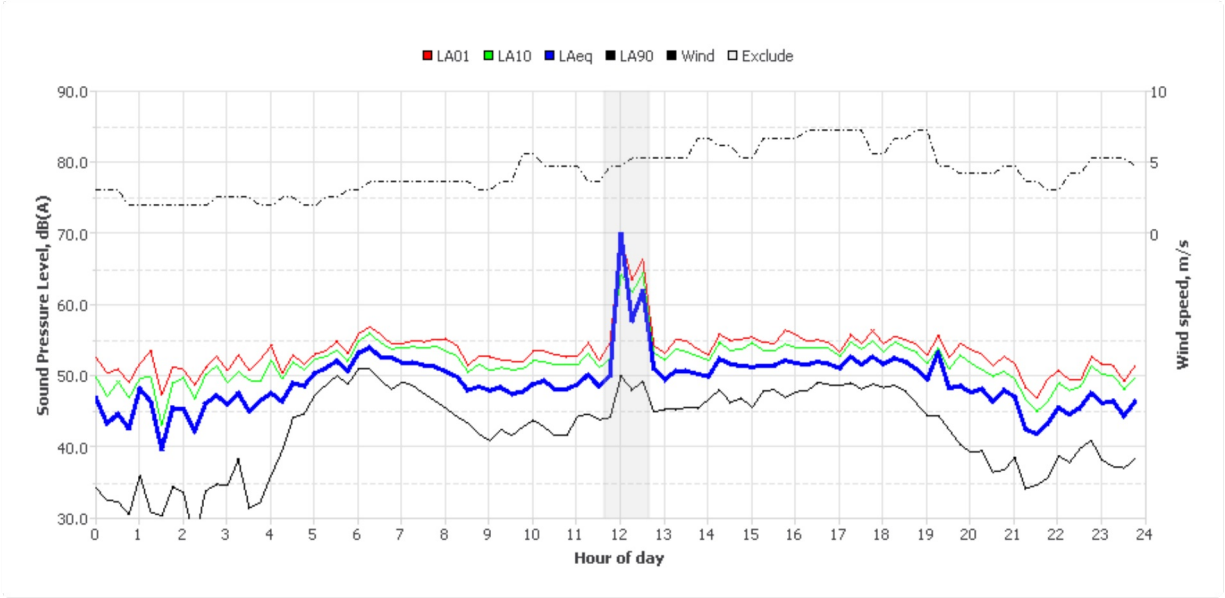
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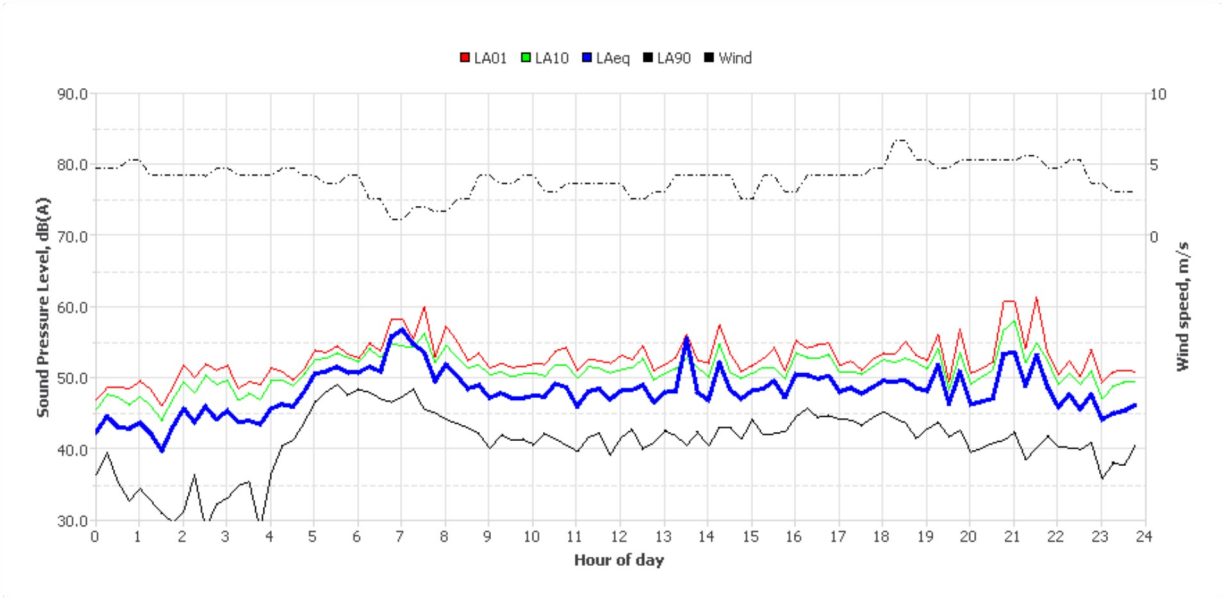
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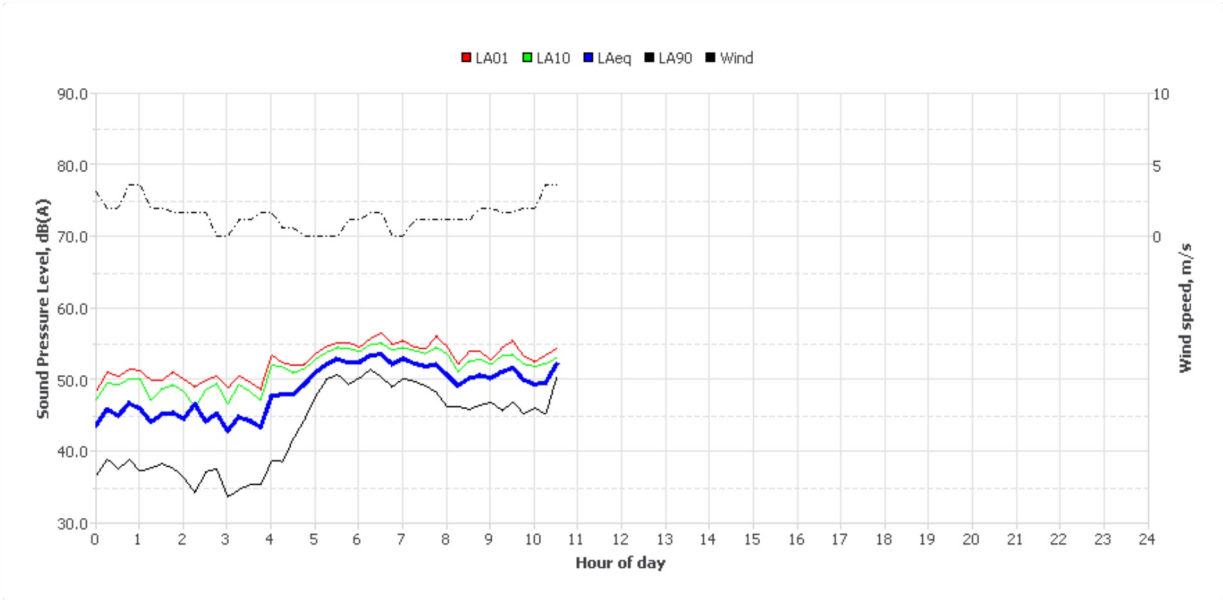
Tuesday, 13 Mar 2018



Wednesday, 14 Mar 2018



Thursday, 15 Mar 2018



Noise Logger Report

L7 - 5066 New England Highway, Rixs Creek

Item	Information
Logger Type	Svan 977
Serial number	45416
Address	L7 - 5066 New England Highway, Rixs Creek (Northern)
Location	In Field
Facade / Free Field	Free Field
Environment	Daytime - noise environment dominated by road traffic noise on New England highway. High number of heavy vehicles. Some insect noise also heart intermittently between vehicles. Light winds. Night time -Crickets and light wind noise audible between vehicle traffic. Distant engine braking from trucks barely audible. Car pass-by 65dB(A). Truck pass-by 81dB(A).

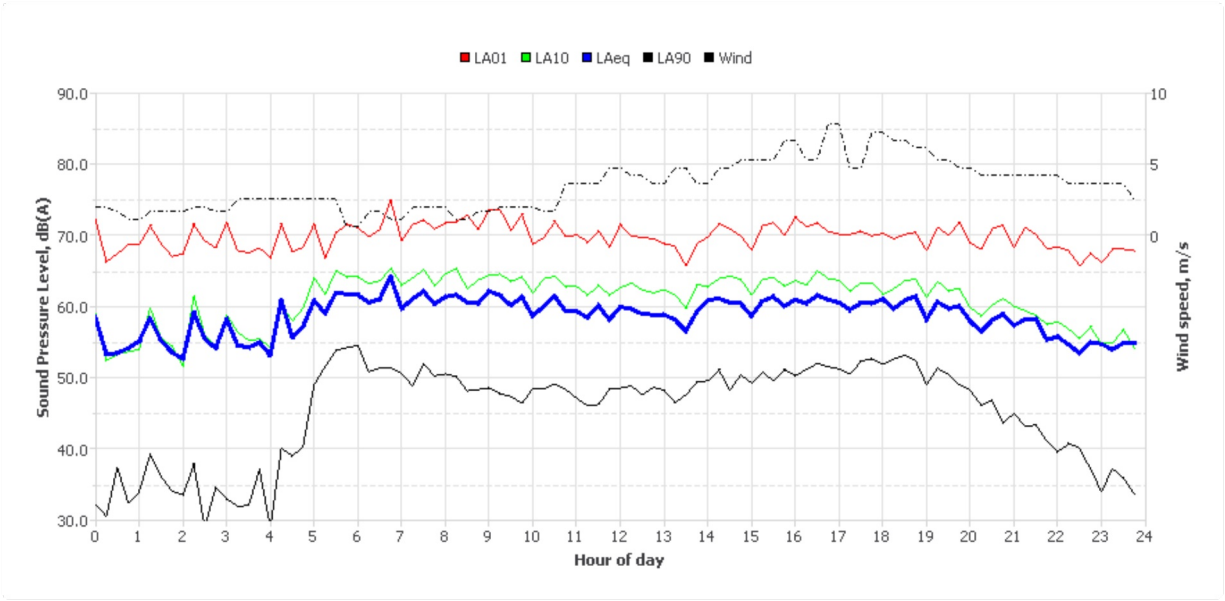
Measured noise levels

Logging Date	L_{Aeq} Day	Eve	Night	ABL Day	Eve	Night	$L_{Aeq,15hr}$	$L_{Aeq,9hr}$
Fri Mar 2 2018	60	58	58	-	-	32	60	58
Sat Mar 3 2018	57	55	56	41	-	31	57	56
Sun Mar 4 2018	57	64	57	-	-	31	59	57
Mon Mar 5 2018	62	60	62	-	-	37	62	62
Tue Mar 6 2018	65	62	62	-	-	-	64	62
Wed Mar 7 2018	64	60	60	-	-	-	62	60
Thu Mar 8 2018	62	64	60	-	-	38	63	60
Summary	**62**	**61**	**60**	**41**	**-**	**32**	**62**	**60**

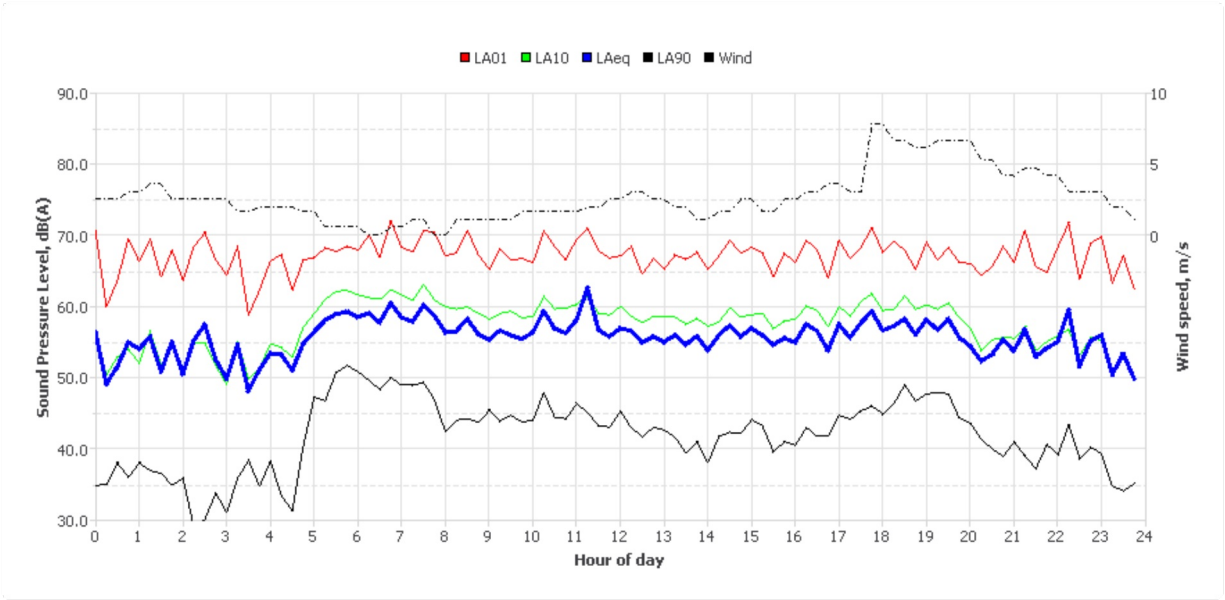
Note: Results denoted with '-' do not contain enough valid data for a value to be calculated. The data has been excluded either manually or automatically as a result of adverse weather conditions.

Logger Location	Logger Deployment Photo
	

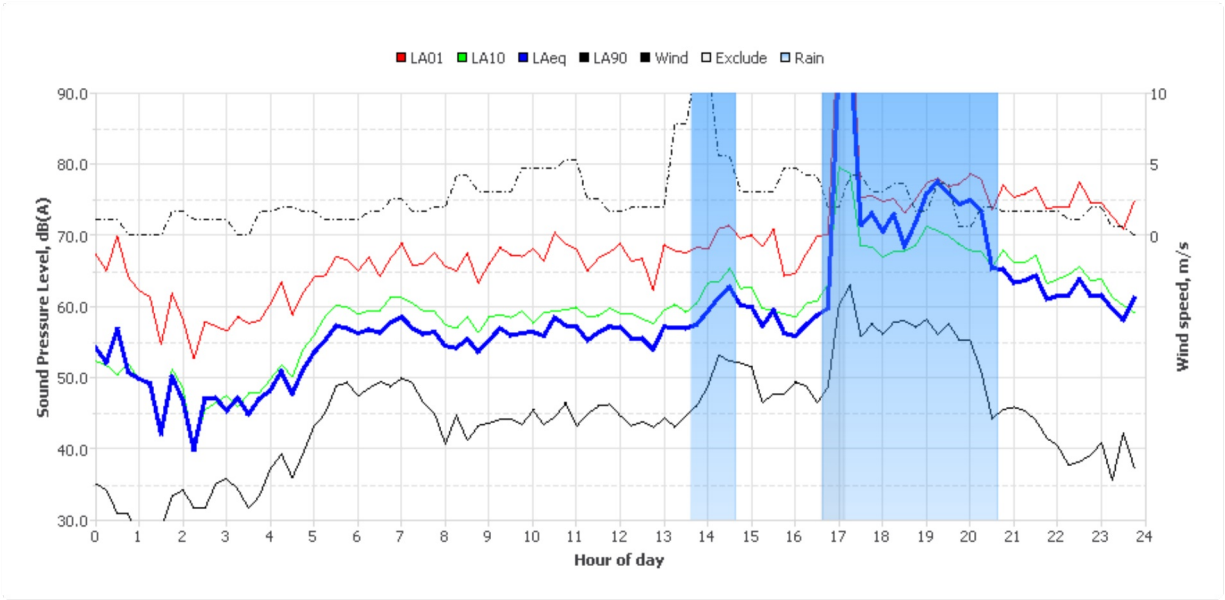
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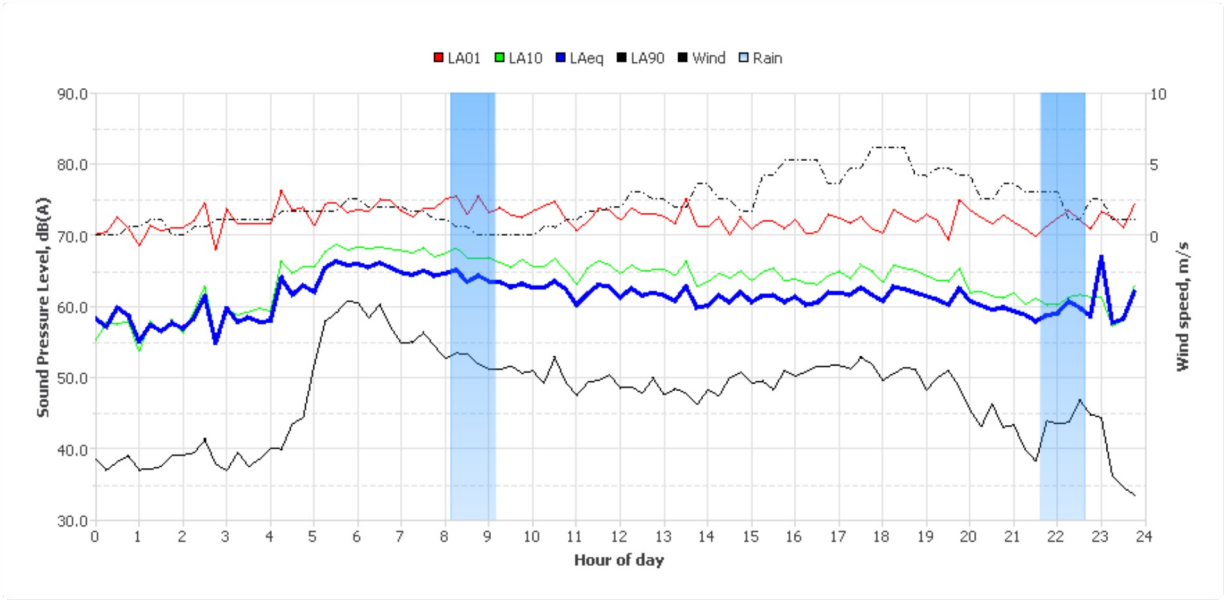
Saturday, 03 Mar 2018



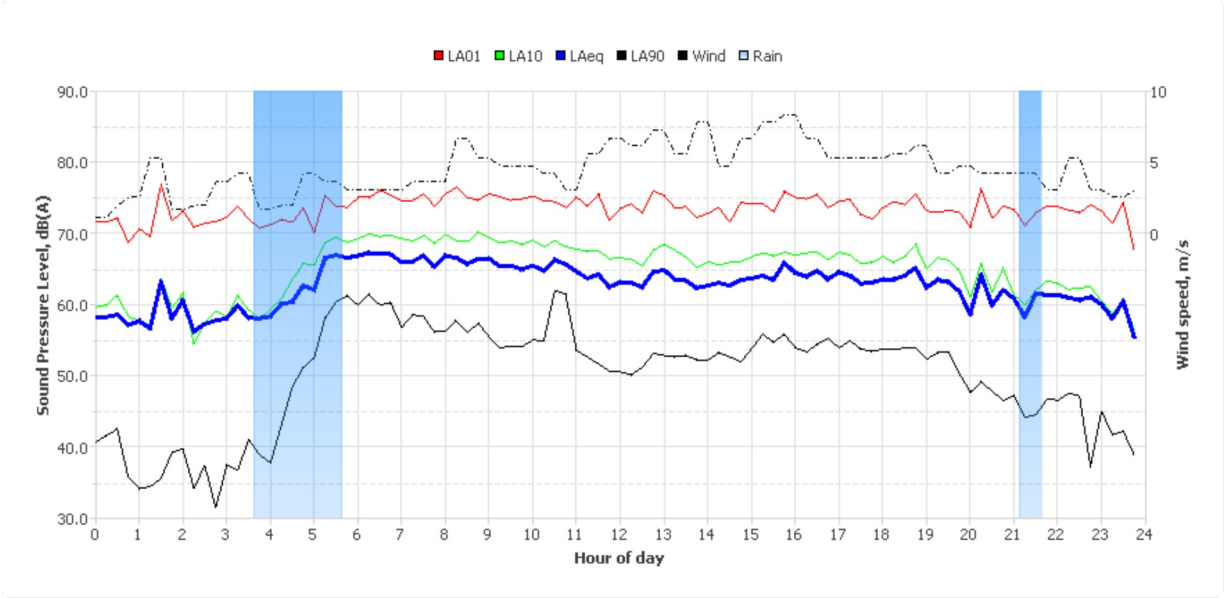
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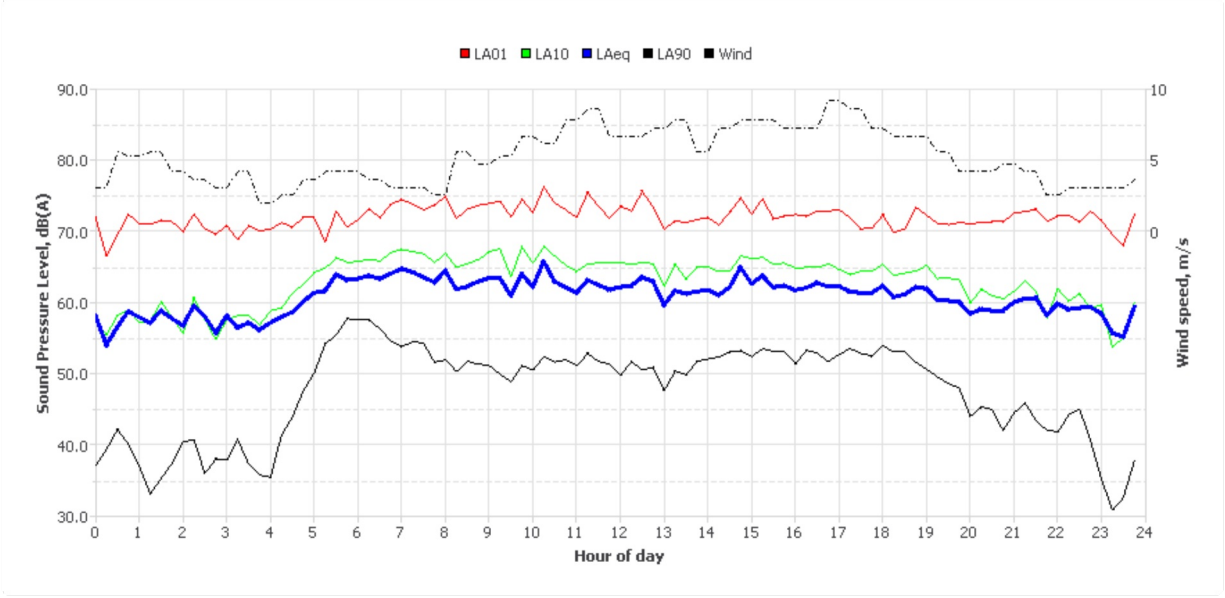
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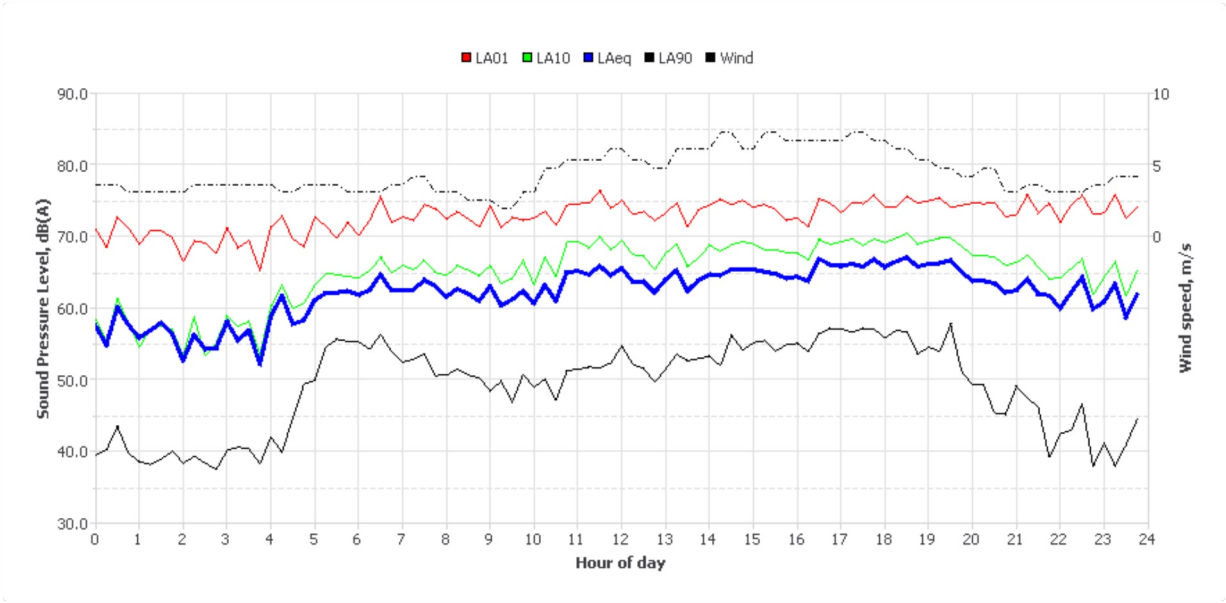
Tuesday, 06 Mar 2018



Wednesday, 07 Mar 2018

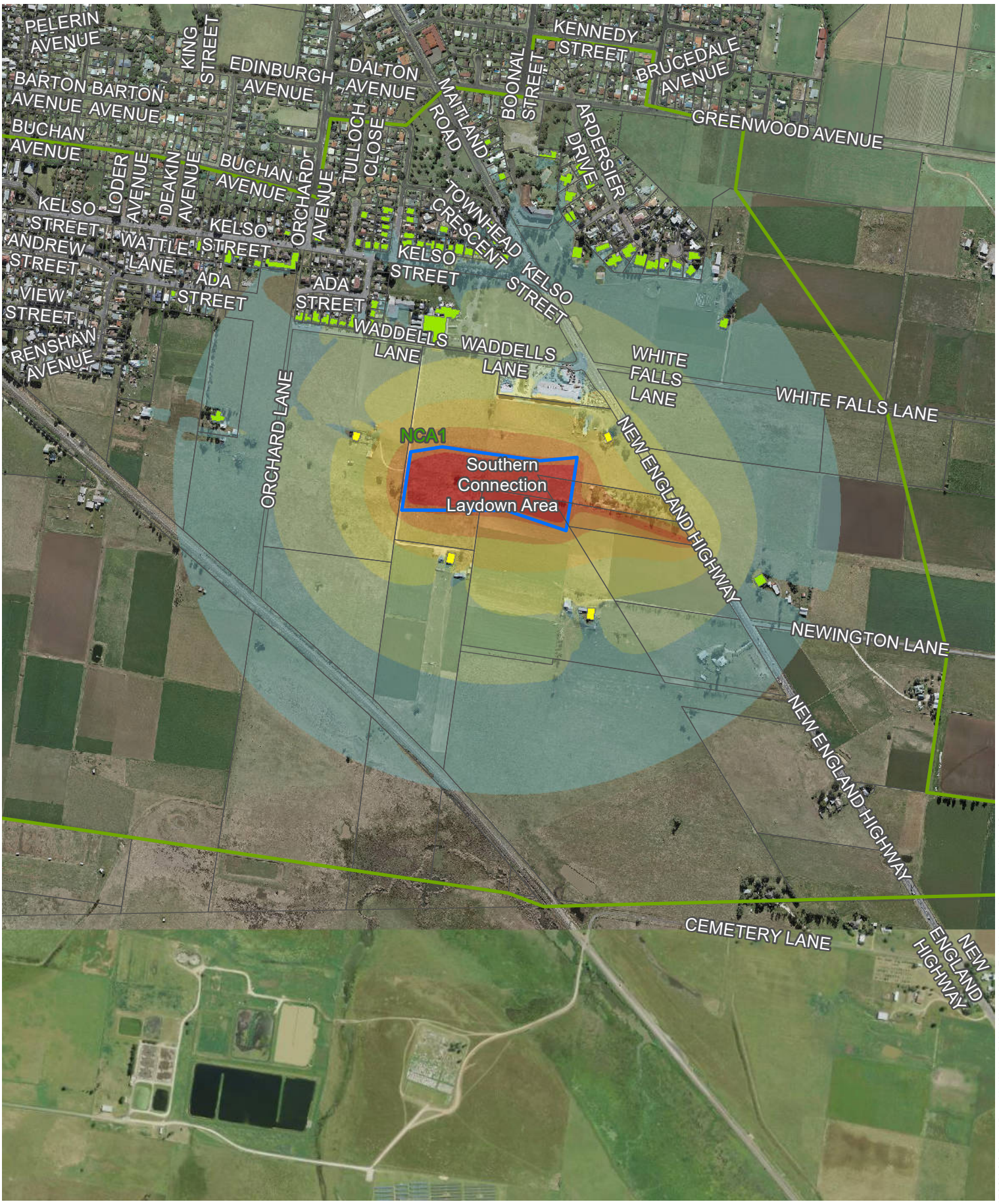


Thursday, 08 Mar 2018



Appendix C

Construction Noise Levels



Singleton Bypass - Noise Contours
Southern Connection - Vegetation clearing - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20



AECOM

N

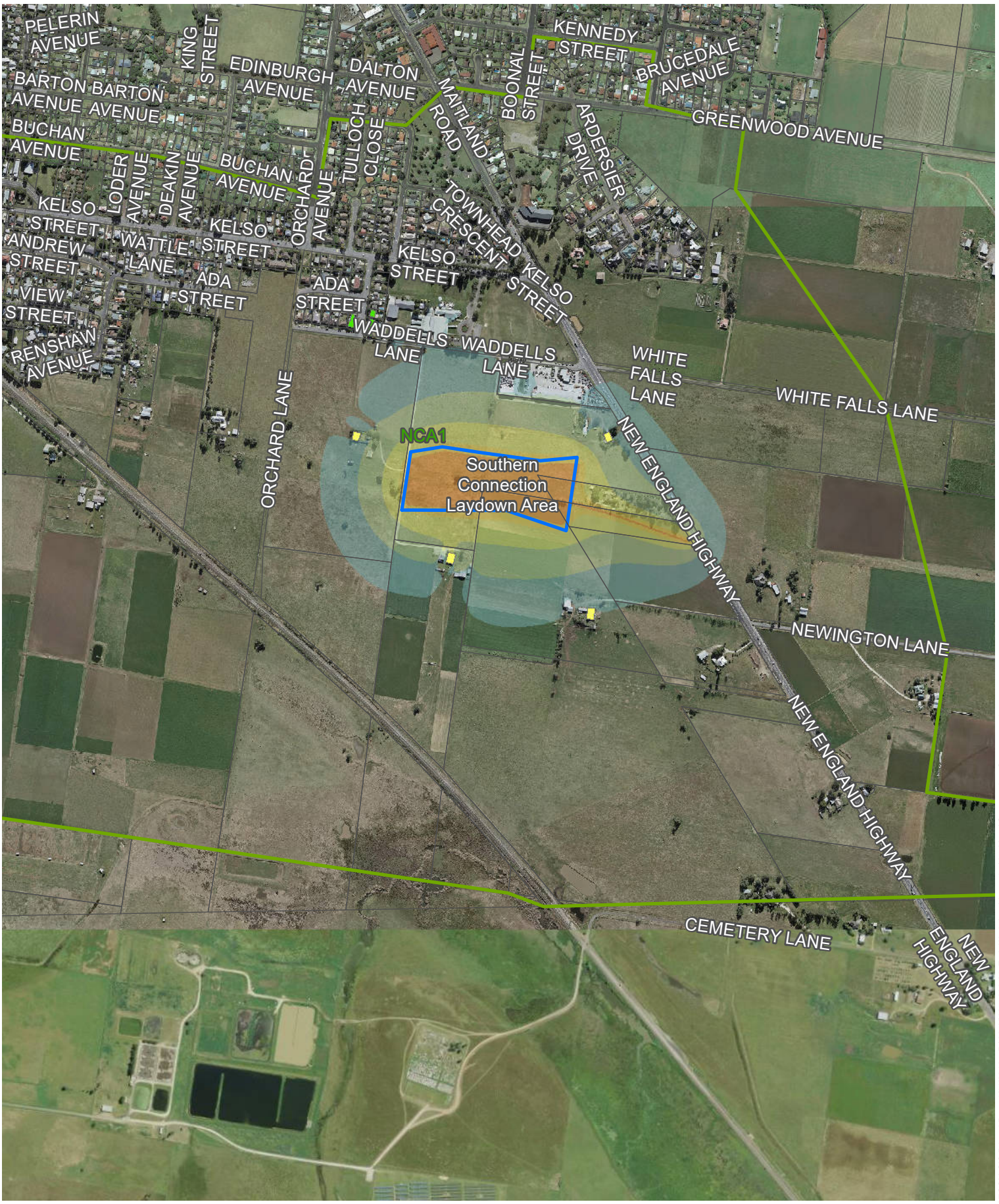
0 125 250 500 m

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Singleton Bypass - Noise Contours
Southern Connection - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45
45 - 49
50 - 54
55 - 59
60 - 64
65 - 69

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15



AECOM

N

0 125 250 500 m

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Singleton Bypass - Noise Contours
Southern Connection - Demobilisation - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45
45 - 49
50 - 54
55 - 59
60 - 64
65 - 69
70 - 74

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20



AECOM

N

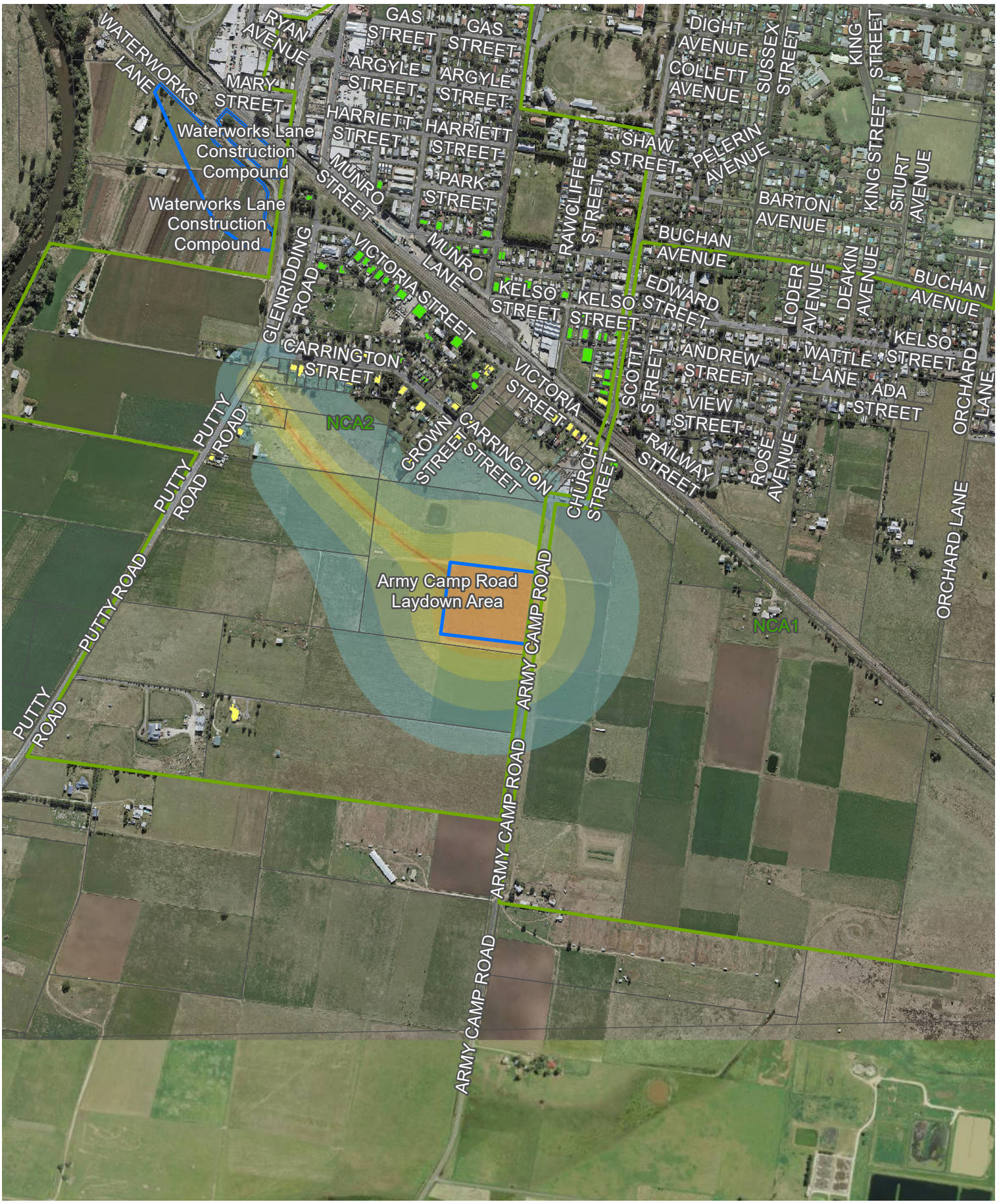
0 125 250 500 m

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Singleton Bypass - Noise Contours
Army Camp Rd - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45
45 - 49
50 - 54
55 - 59
60 - 64
65 - 69

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15



AECOM

N

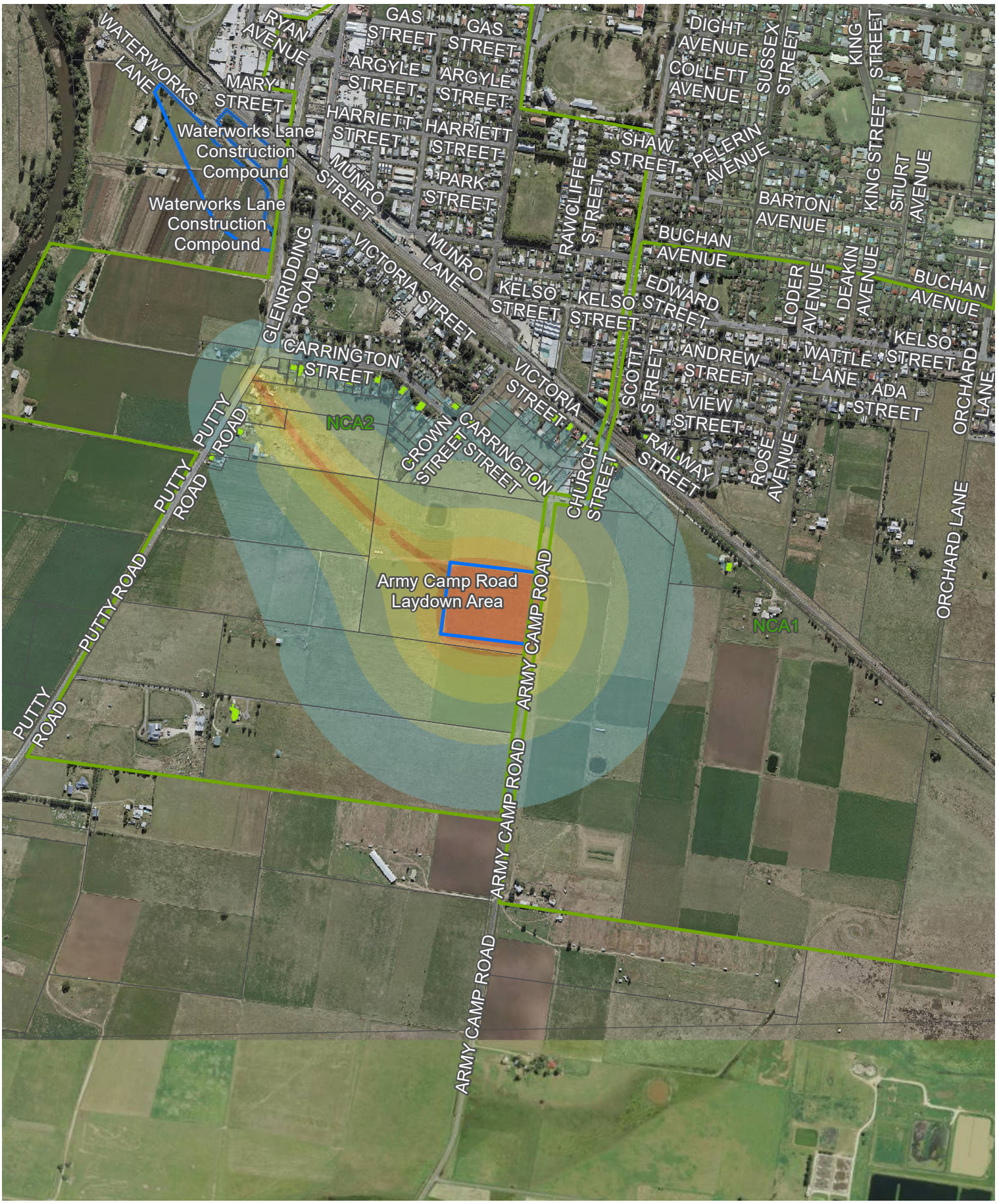
0 125 250 500 m

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Singleton Bypass - Noise Contours
Army Camp Rd - Demobilisation - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74

Exceedance of NML, dB

0

1 - 10

Noise Catchment Area

Compounds



AECOM

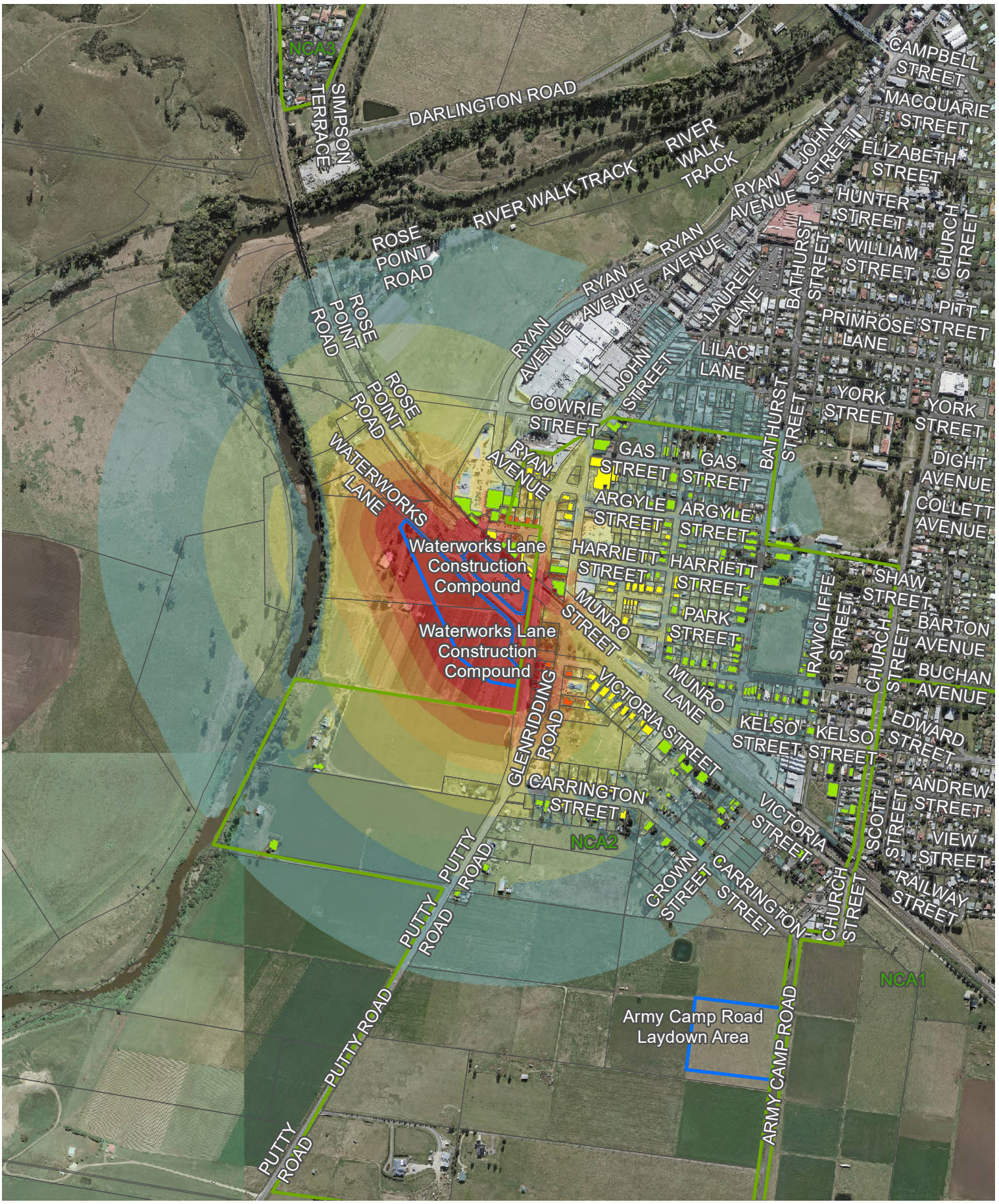
0 125 250 500 m

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Singleton Bypass - Noise Contours
Waterworks Lane - Vegetation clearing - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

N

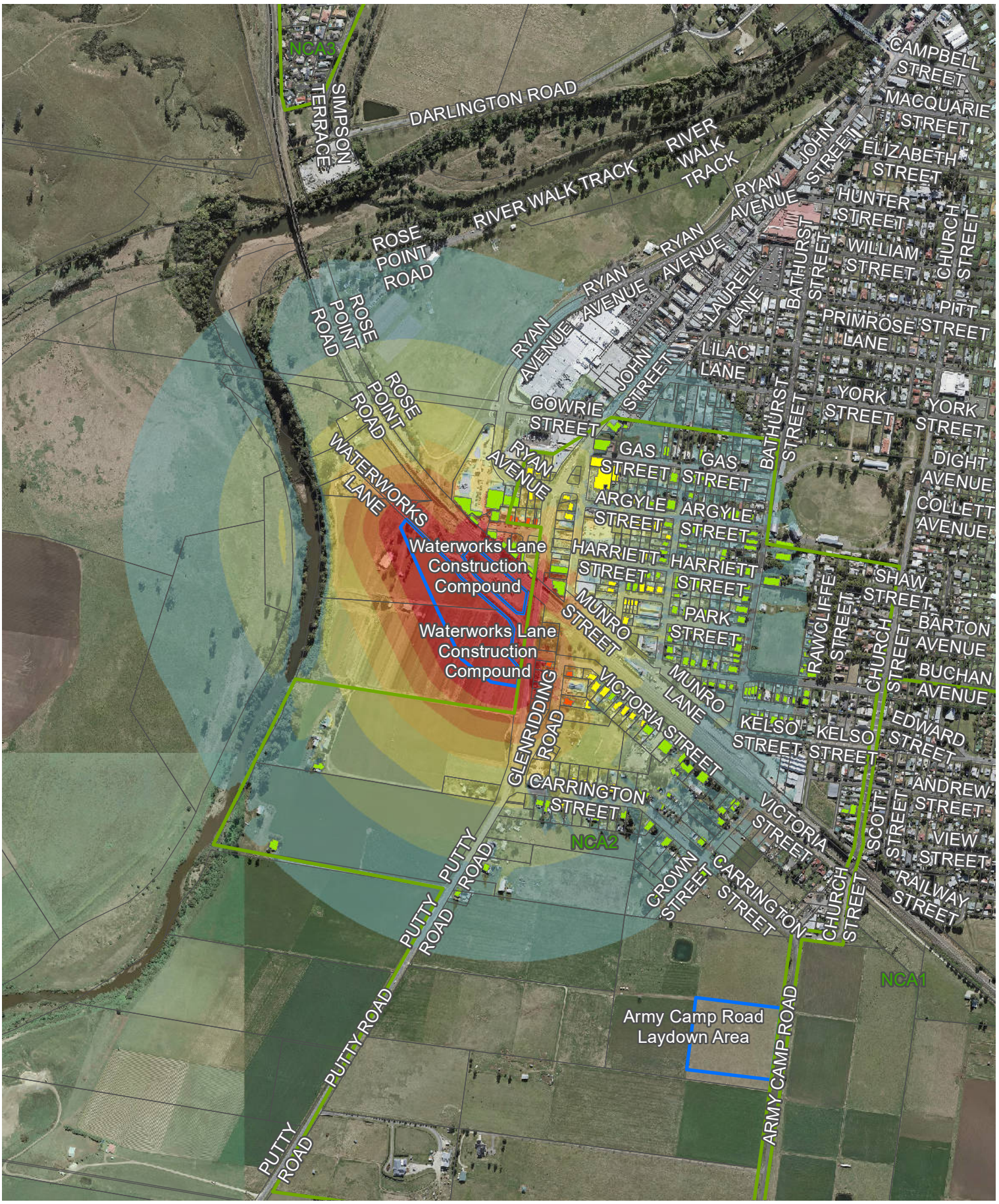
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Singleton Bypass - Noise Contours
Waterworks Lane - Establishment of site - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

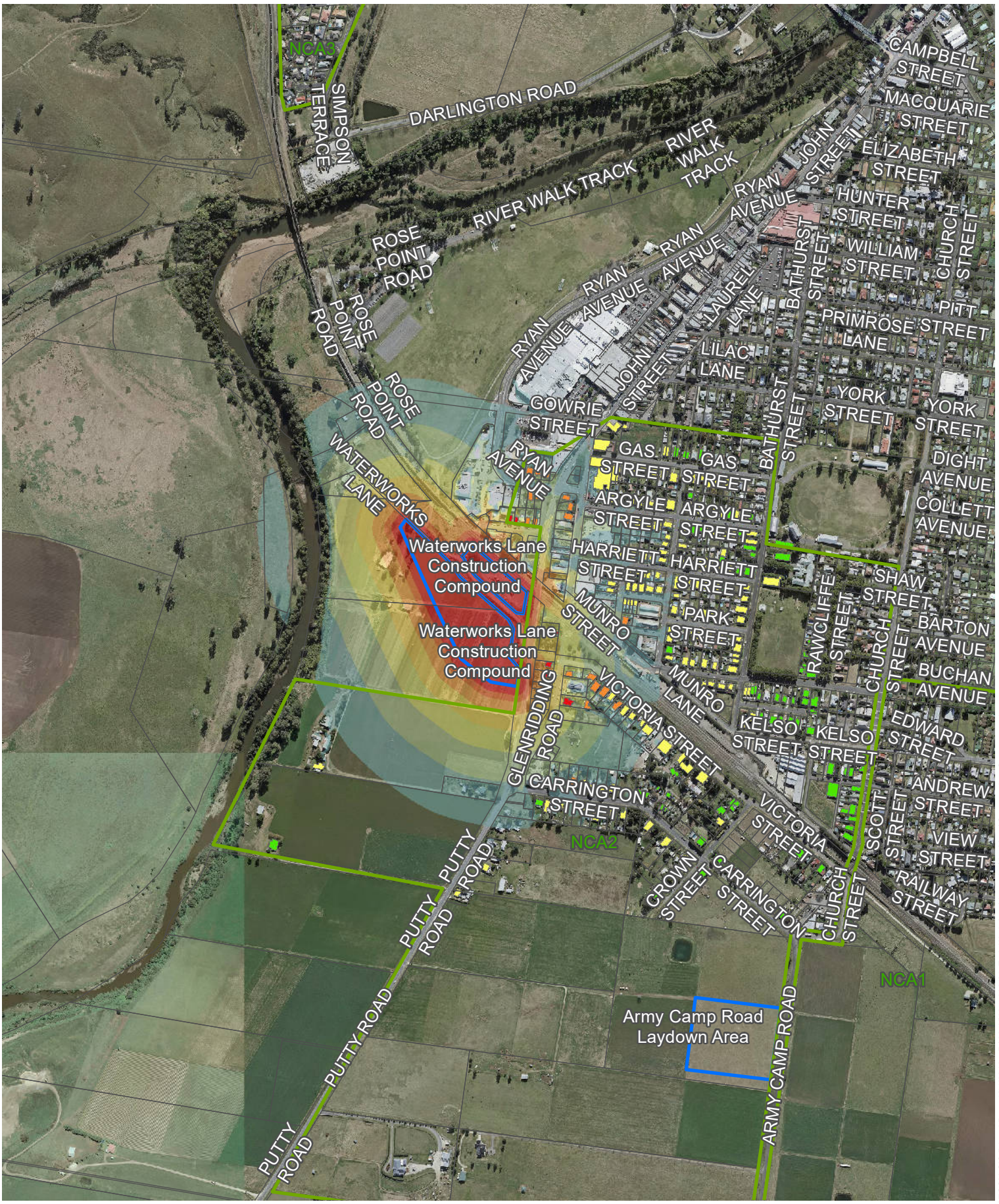
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Singleton Bypass - Noise Contours
Waterworks Lane - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25
> 25



AECOM

N

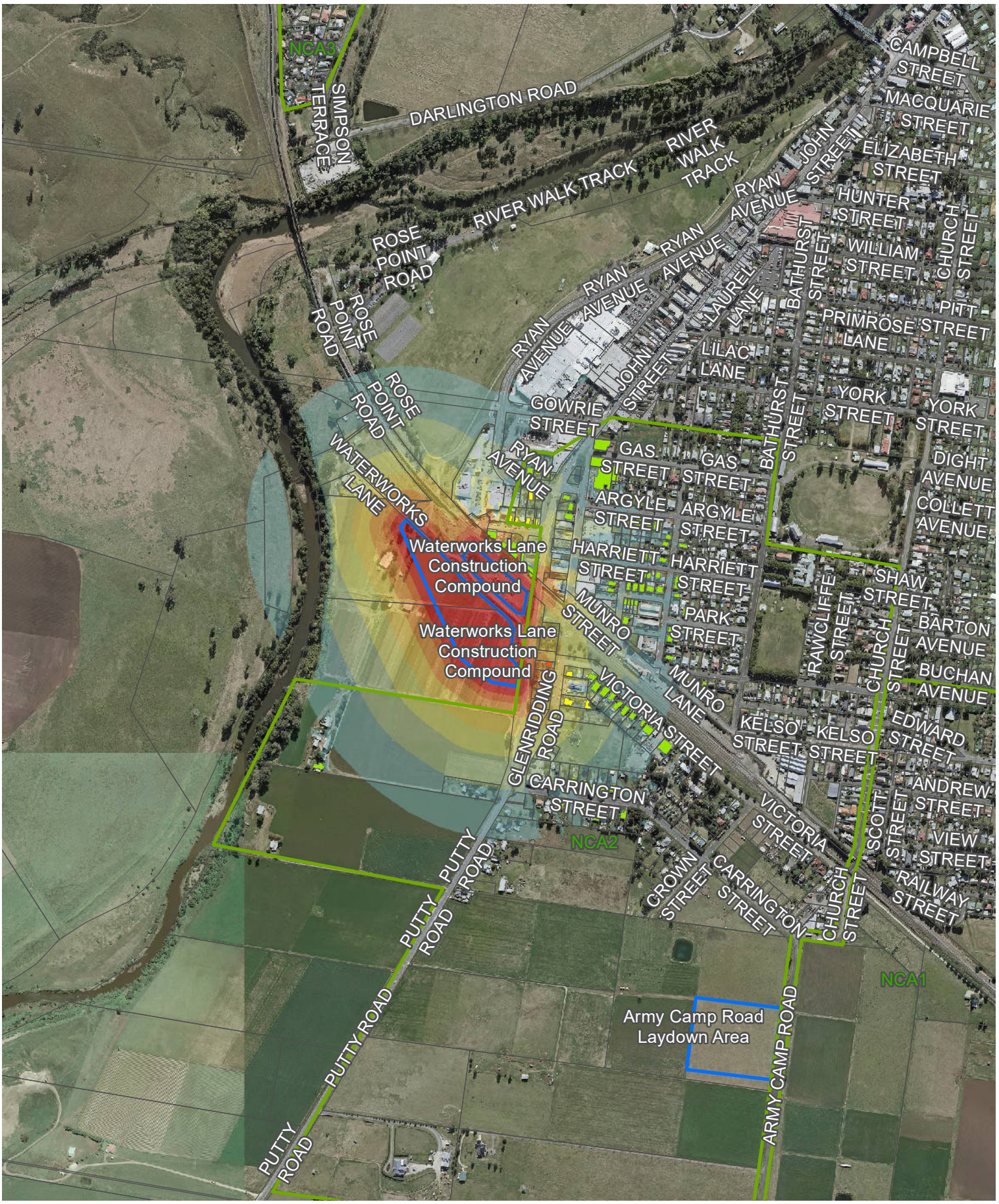
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Singleton Bypass - Noise Contours
Waterworks Lane - Stockpiling - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

N

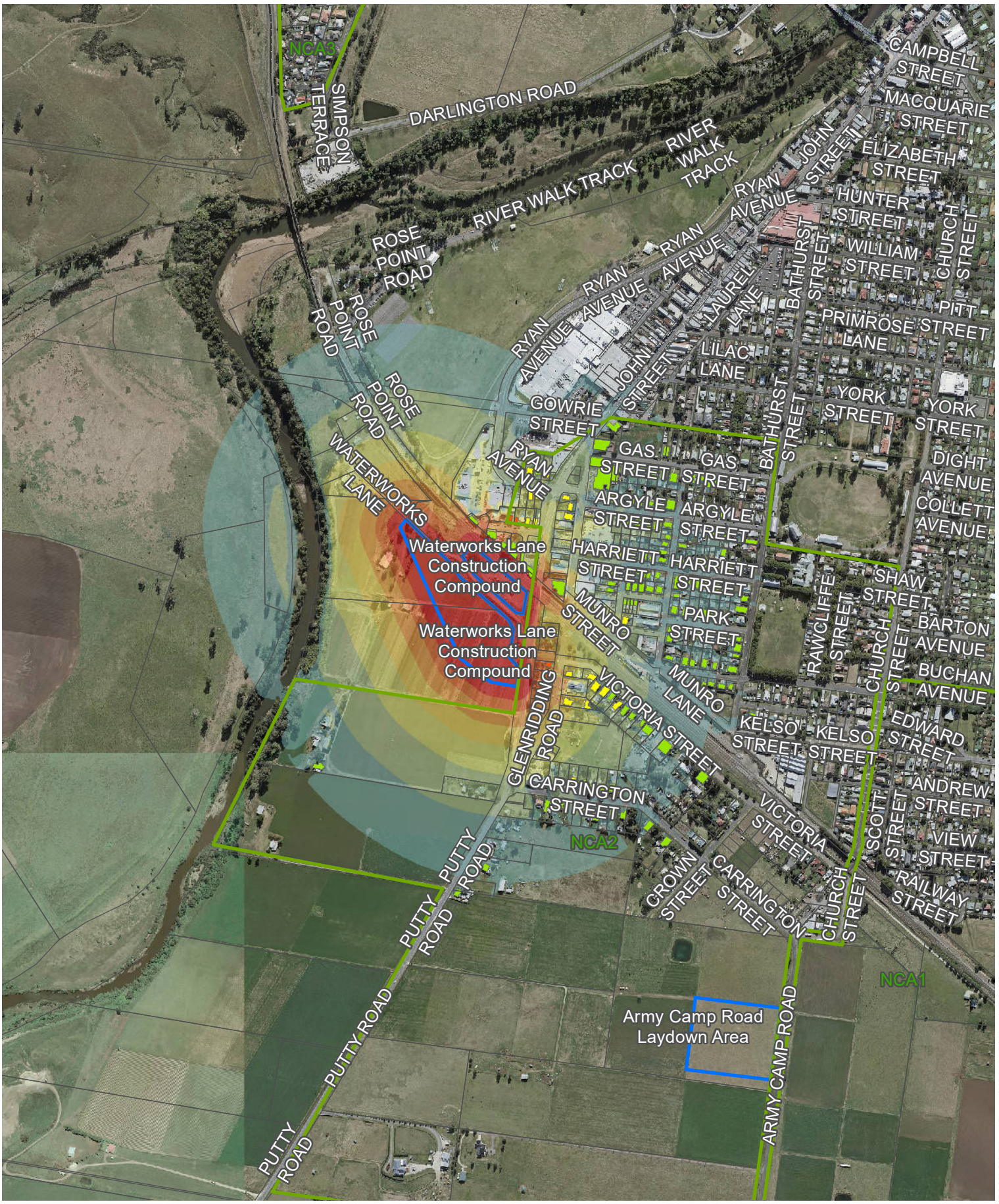
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Singleton Bypass - Noise Contours
Waterworks Lane - Demobilisation - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

N

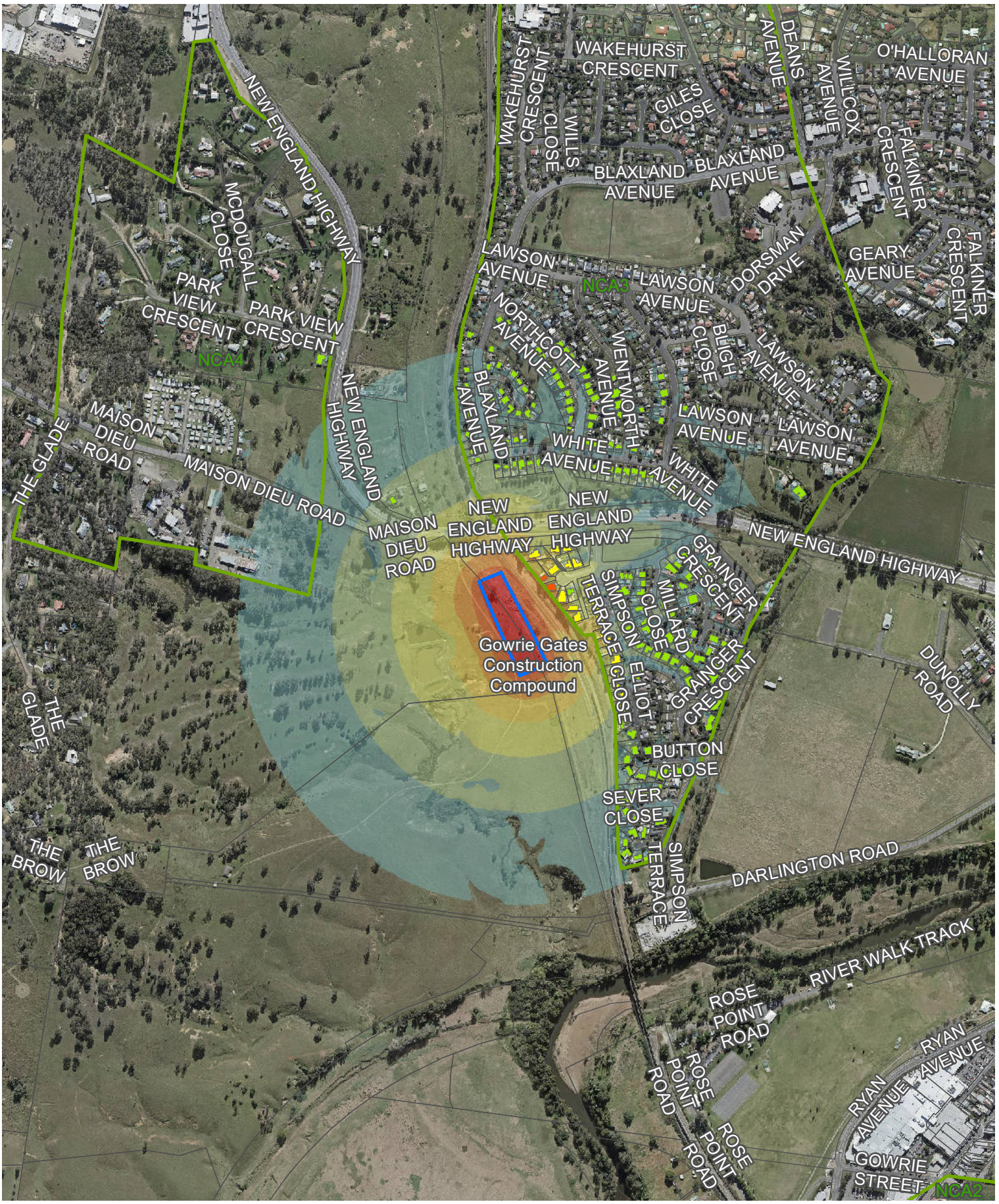
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Singleton Bypass - Noise Contours
Gowrie Gates - Establishment of site - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

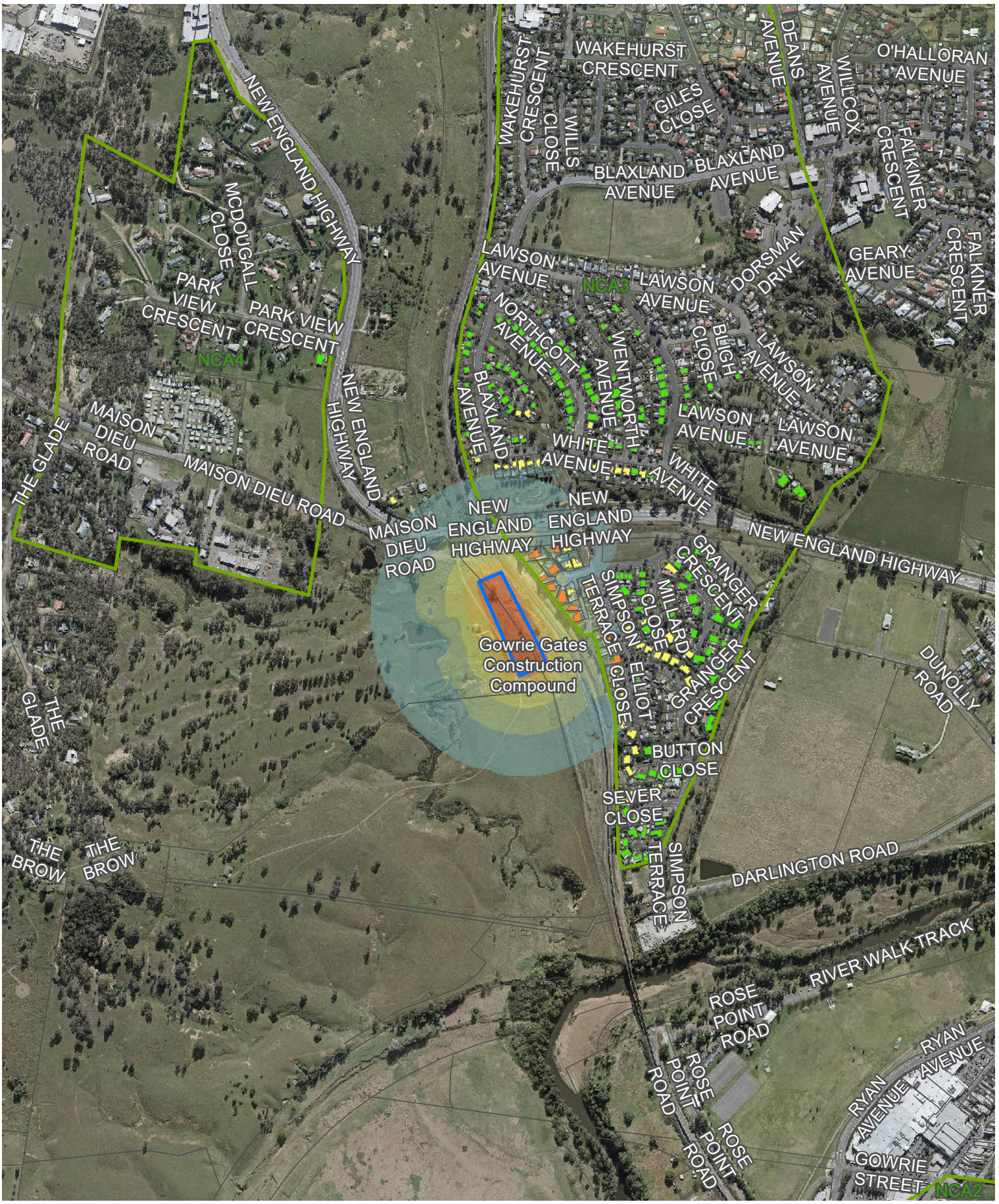
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Singleton Bypass - Noise Contours
Gowrie Gates - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25



AECOM

N

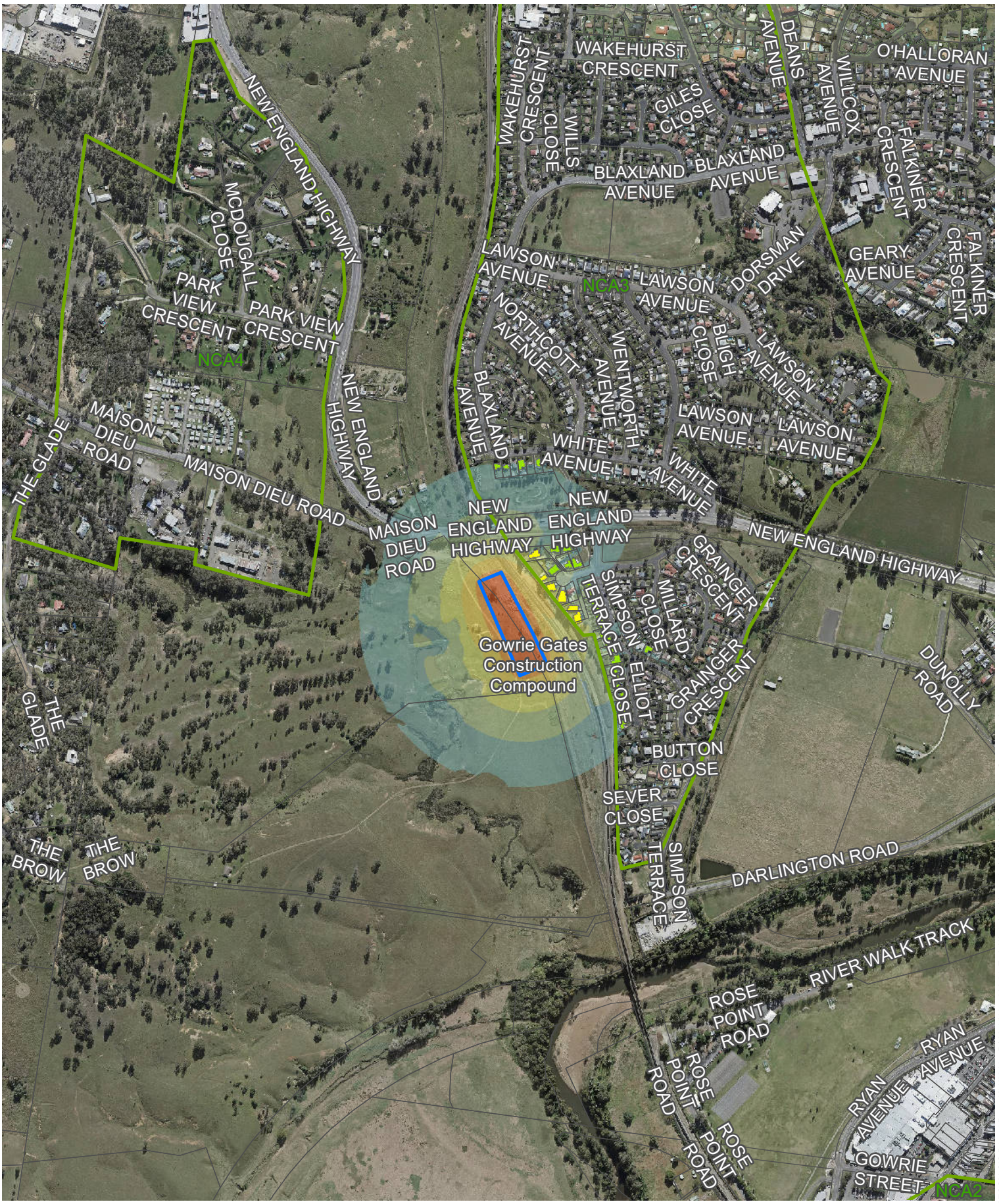
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Singleton Bypass - Noise Contours
Gowrie Gates - Stockpiling - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20



AECOM

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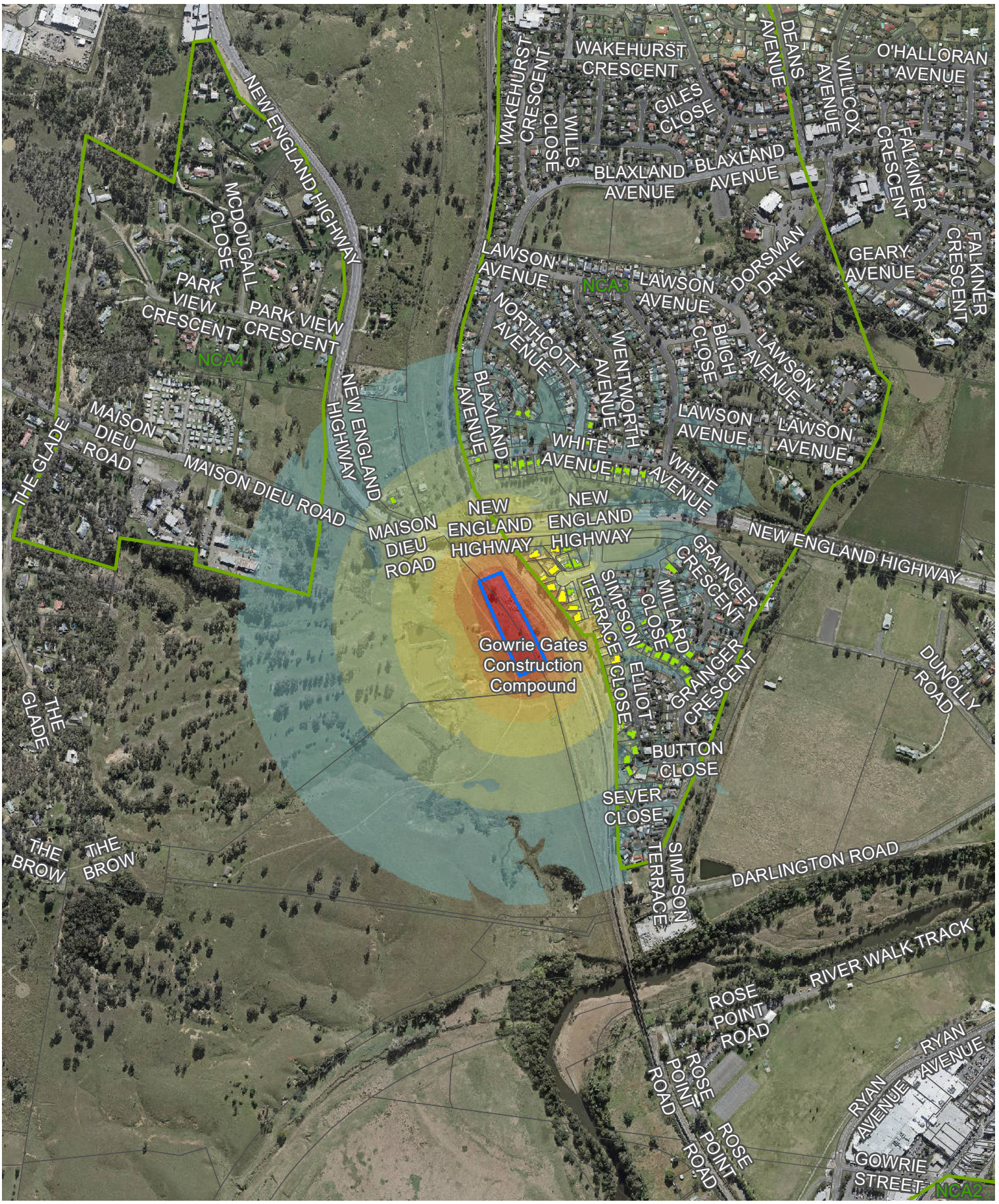
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Singleton Bypass - Noise Contours
Gowrie Gates - Demobilisation - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20



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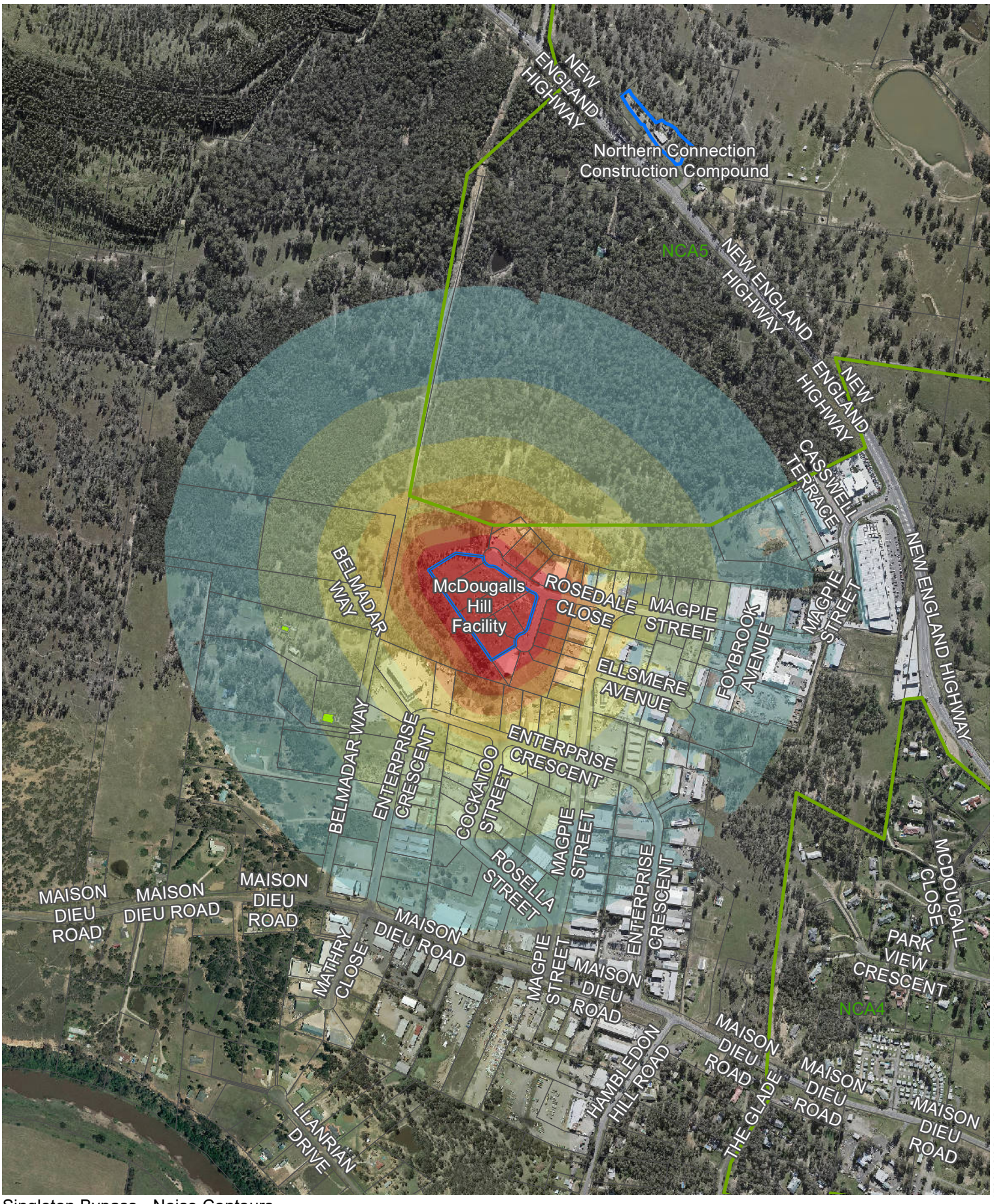
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Singleton Bypass - Noise Contours
McDougalls Hill - Establishment of site - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A) **Exceedance of NML, dB**

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

0

1 - 10

Noise Catchment Area

Compounds



AECOM

N

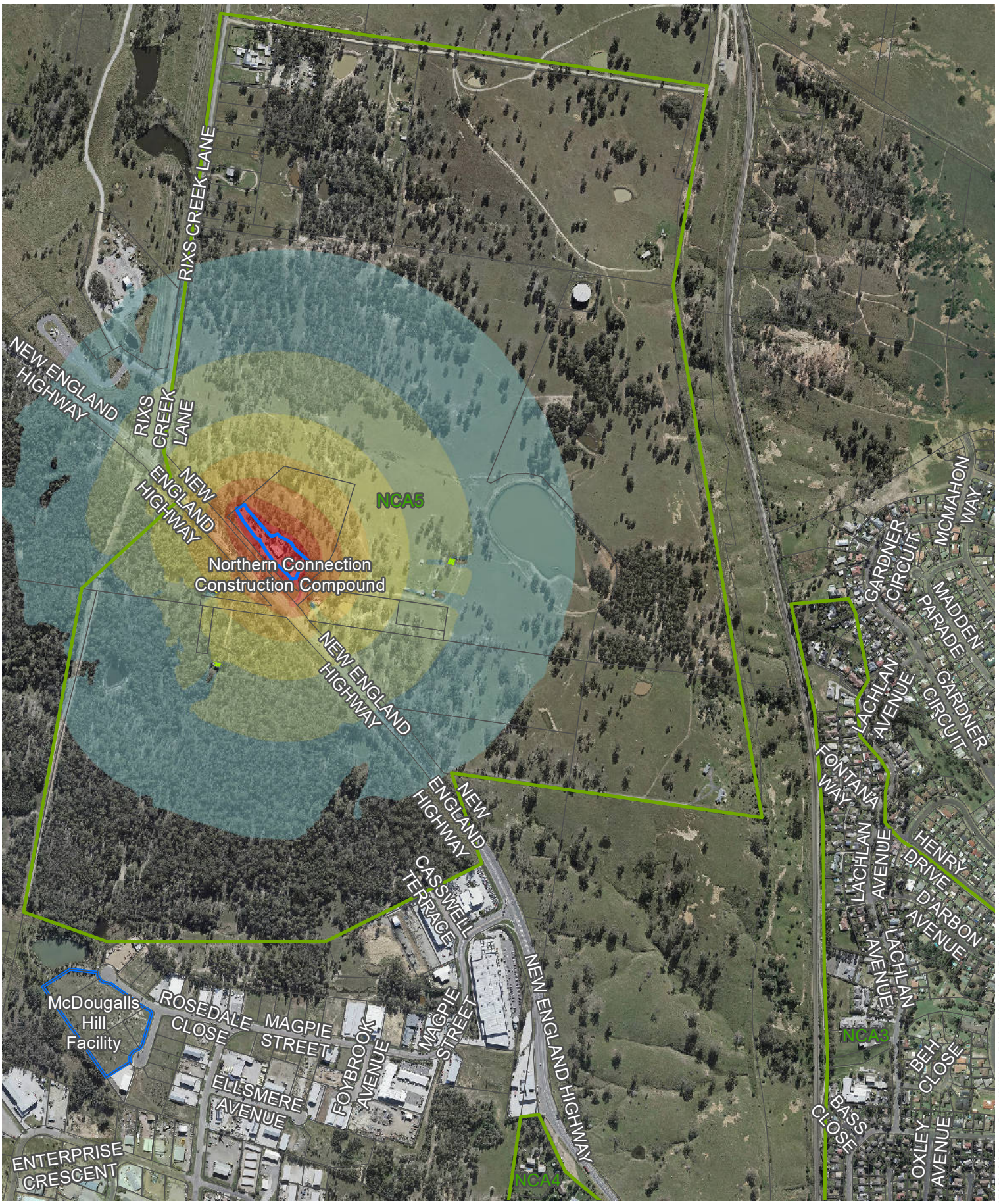
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Singleton Bypass - Noise Contours
Northern Connection - Vegetation clearing - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area

Compounds

Exceedance of NML, dB

0

1 - 10

11 - 20



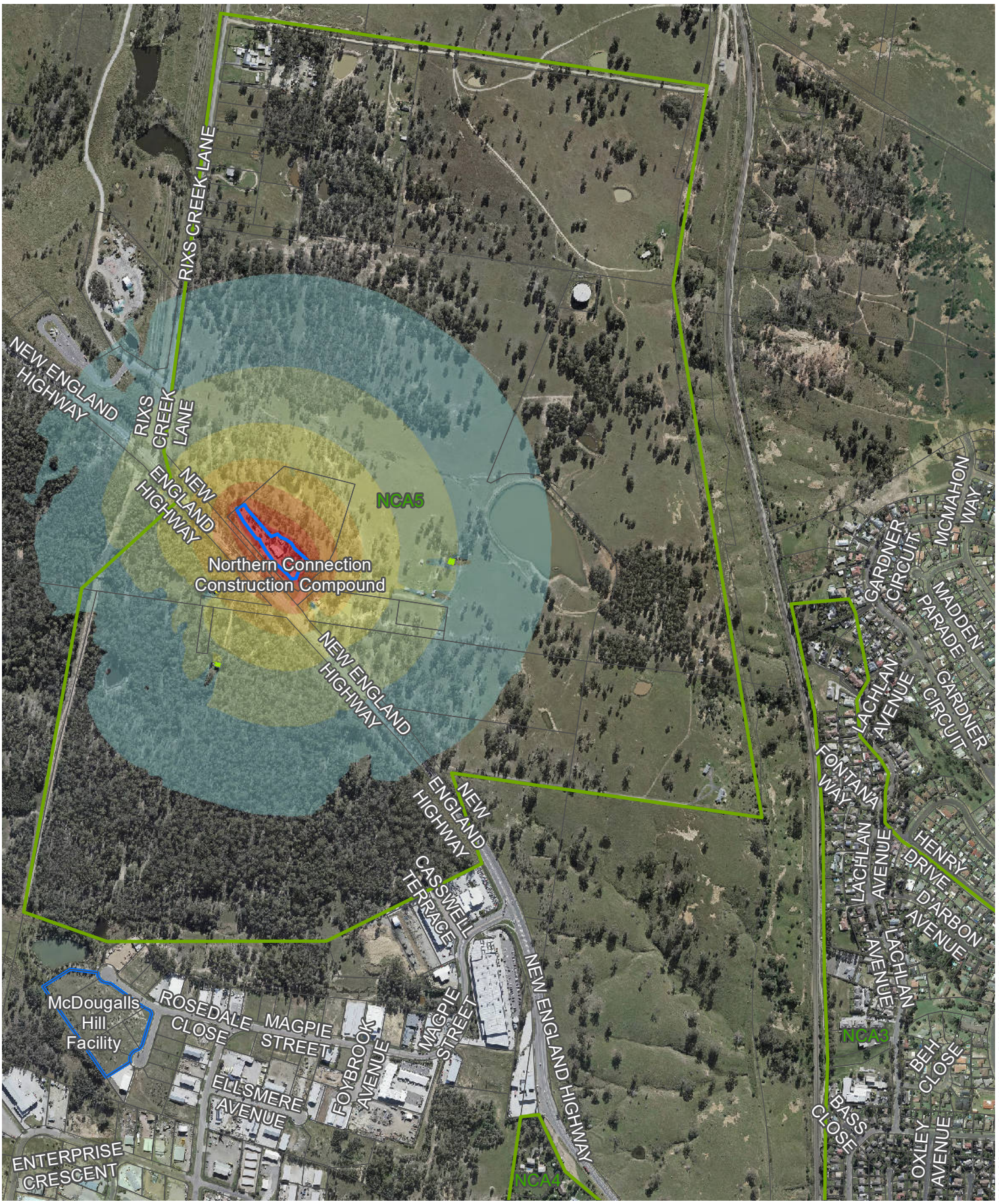
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Singleton Bypass - Noise Contours
Northern Connection - Establishment of site - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area

Compounds

Exceedance of NML, dB

0

1 - 10

11 - 20



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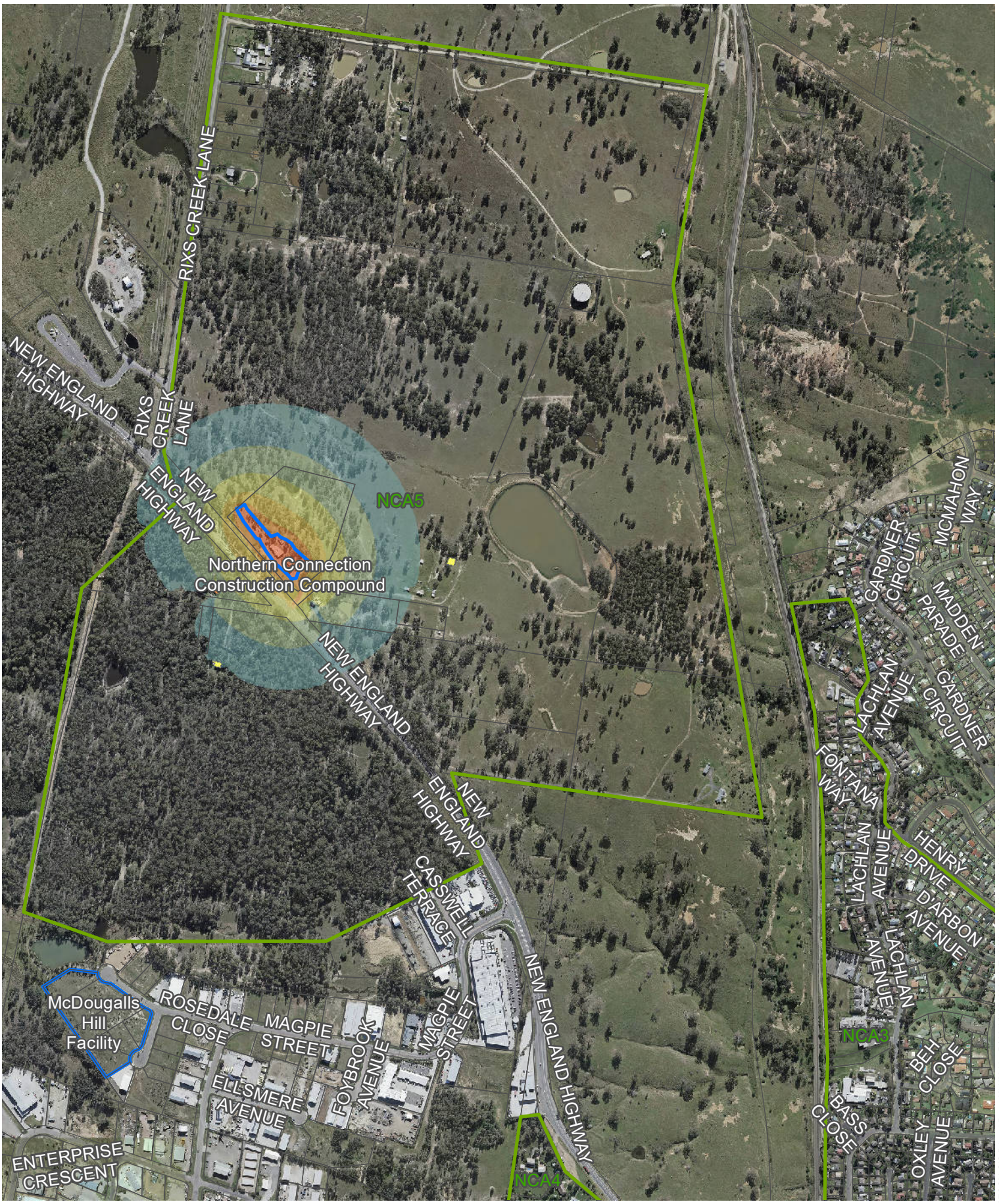
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Singleton Bypass - Noise Contours
Northern Connection - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
6 - 15
16 - 25



AECOM

N

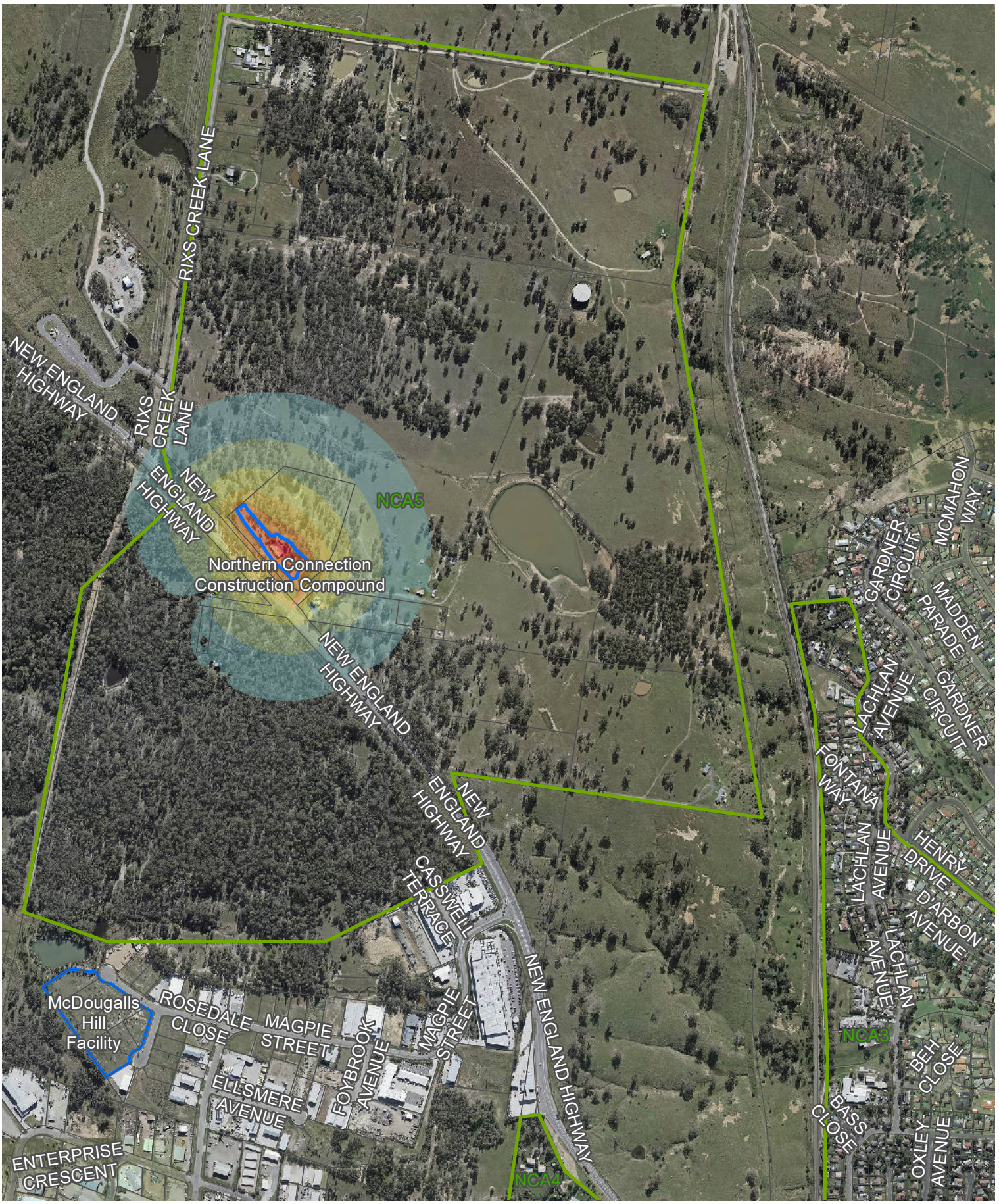
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Singleton Bypass - Noise Contours
Northern Connection - Stockpiling - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Exceedance of NML, dB

0
1 - 10

Noise Catchment Area
Compounds



AECOM

N

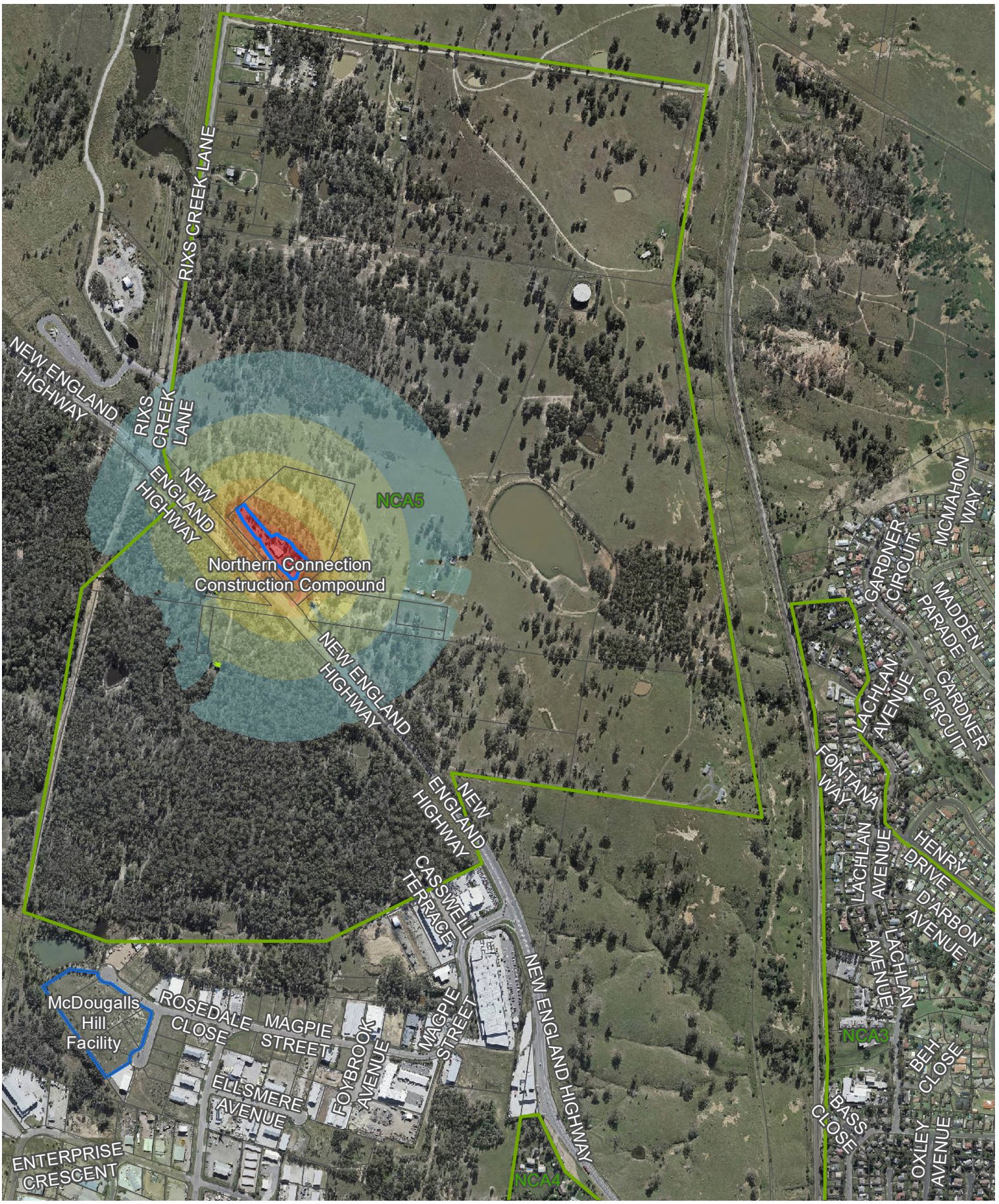
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Singleton Bypass - Noise Contours
Northern Connection - Demobilisation - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Exceedance of NML, dB

0

1 - 10

Noise Catchment Area

Compounds



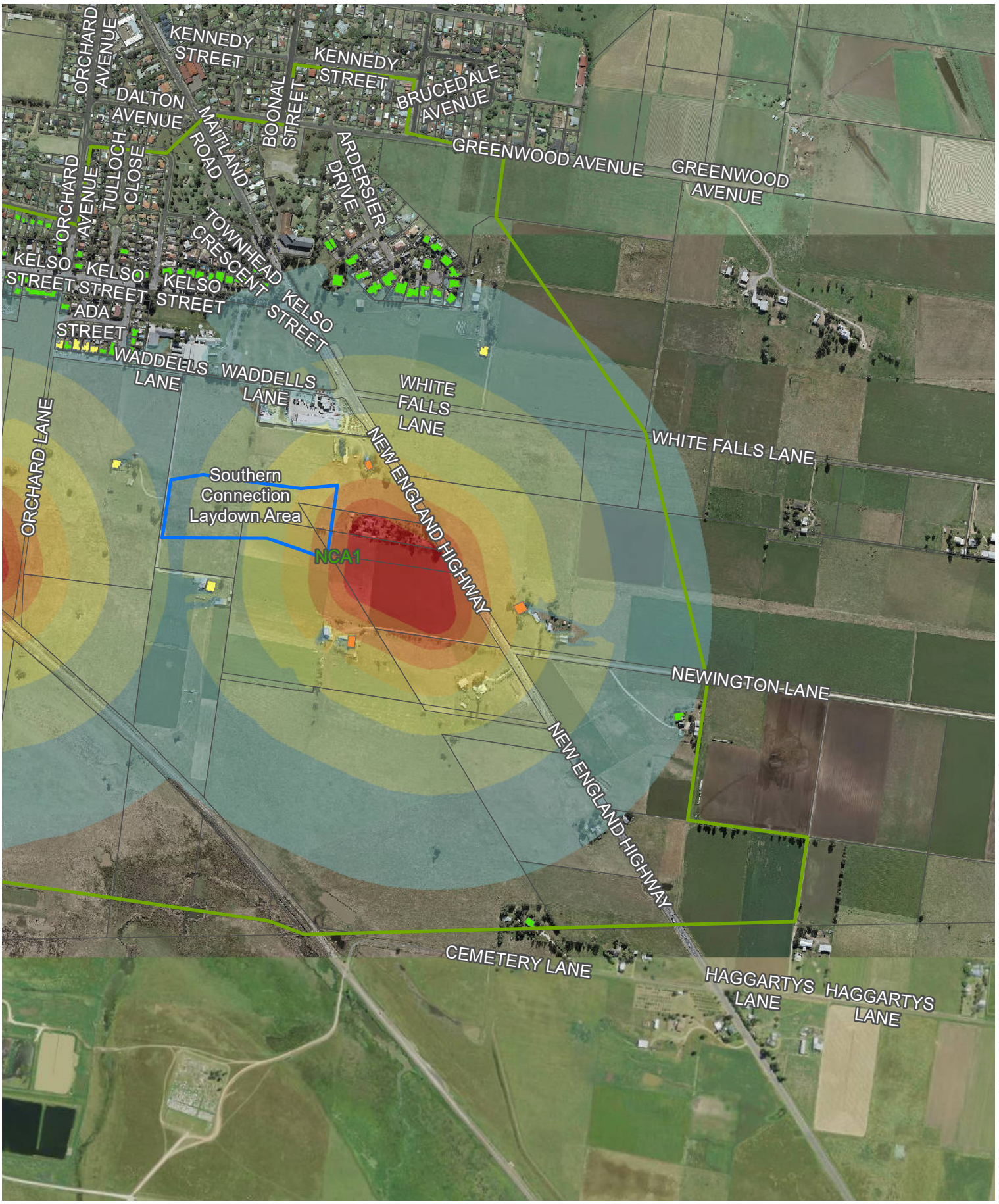
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Singleton Bypass - Noise Contours
Bridge construction - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25



AECOM

N

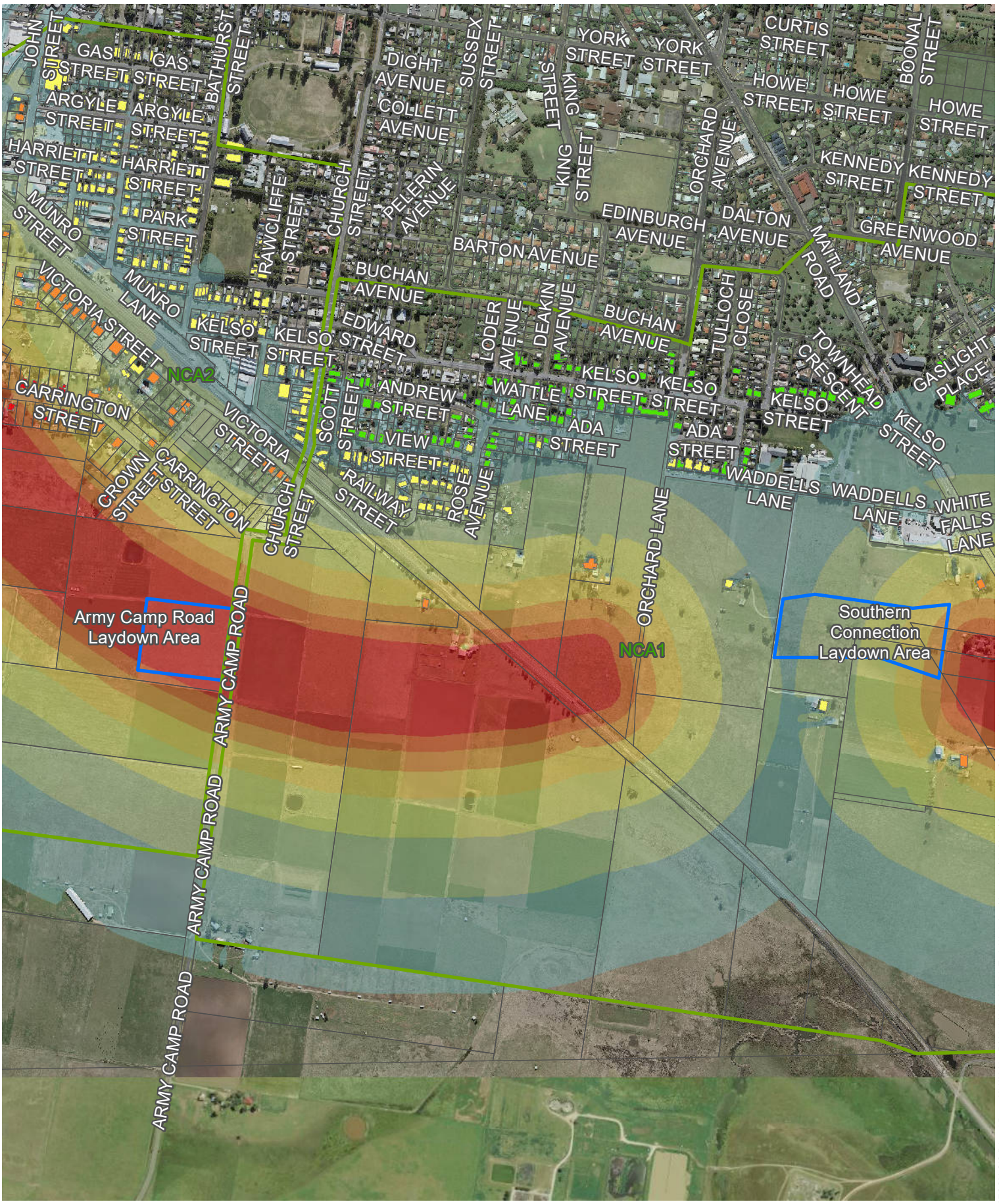
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Singleton Bypass - Noise Contours
Bridge construction - Outside Standard Hours

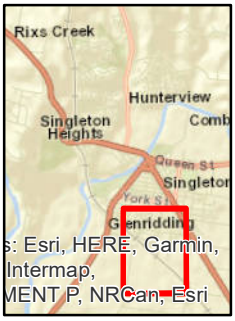
Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25



AECOM

N

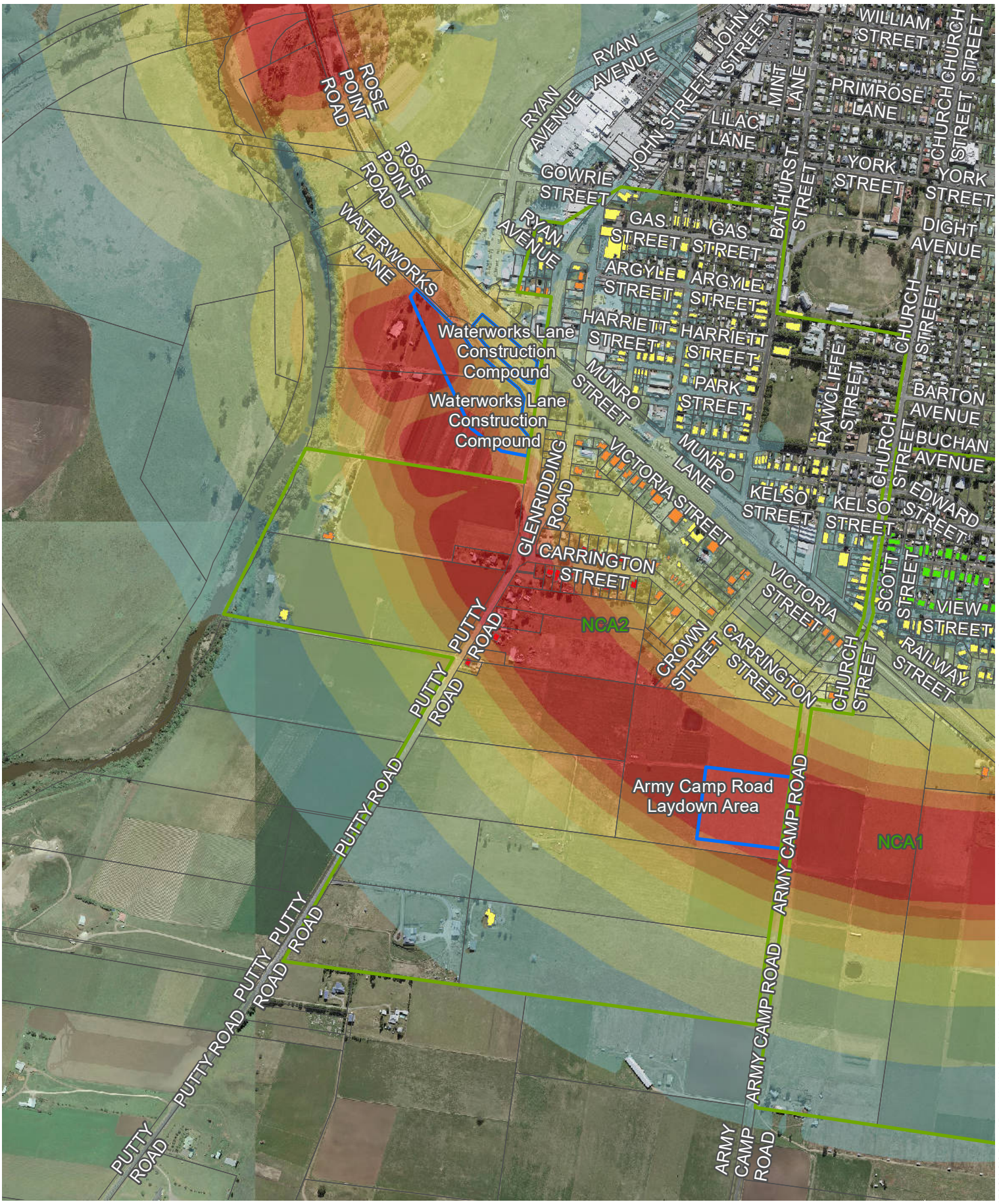
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Singleton Bypass - Noise Contours
Bridge construction - Outside Standard Hours

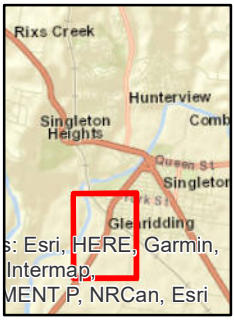
Sound Pressure Level, L_{Aeq} dB(A)

< 45
45 - 49
50 - 54
55 - 59
60 - 64
65 - 69
70 - 74
>= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
6 - 15
16 - 25
> 25



AECOM

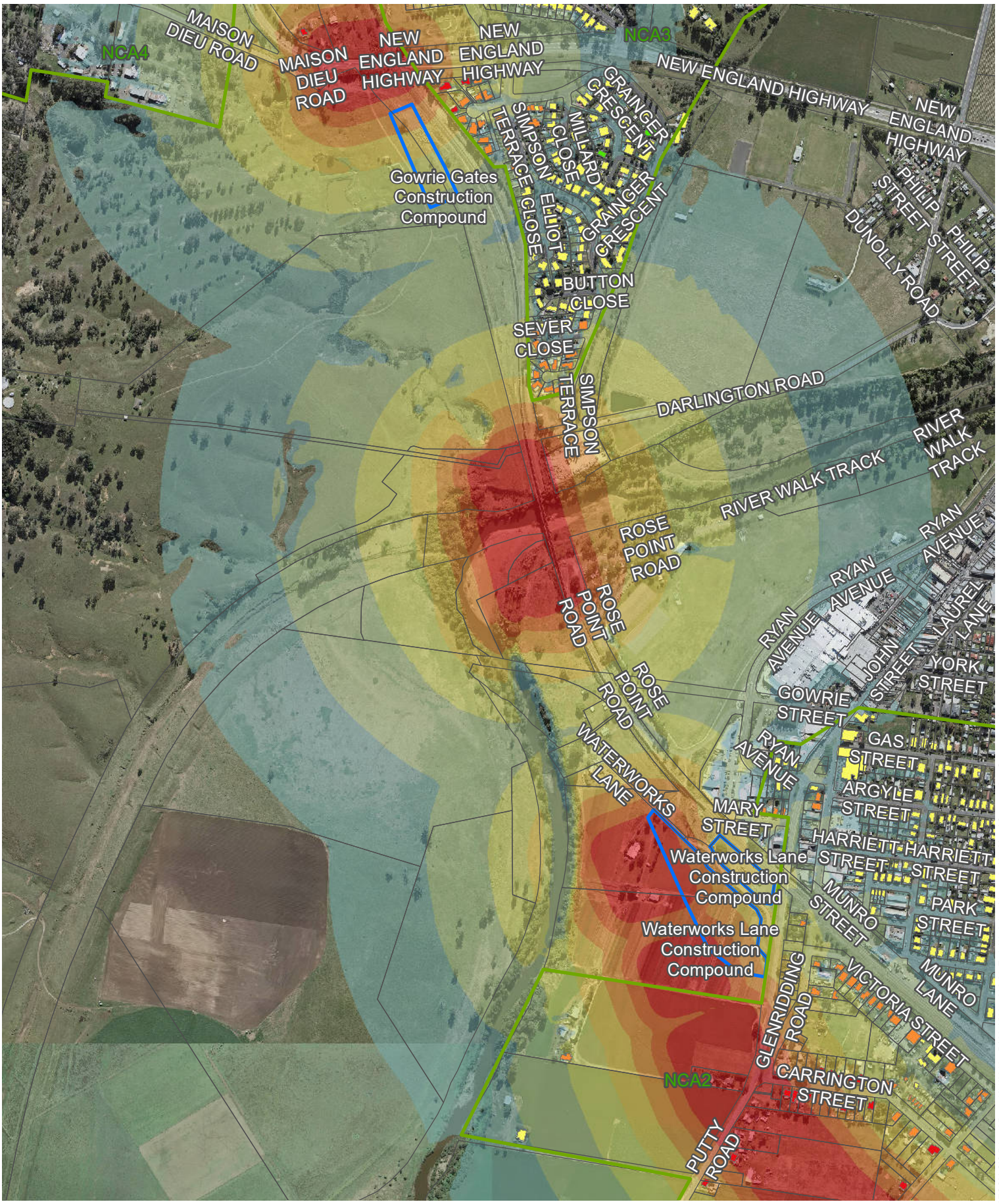
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Singleton Bypass - Noise Contours
Bridge construction - Outside Standard Hours

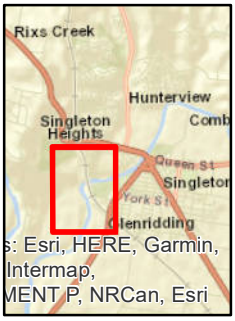
Sound Pressure Level, L_{Aeq} dB(A)

< 45
45 - 49
50 - 54
55 - 59
60 - 64
65 - 69
70 - 74
>= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25
> 25



AECOM

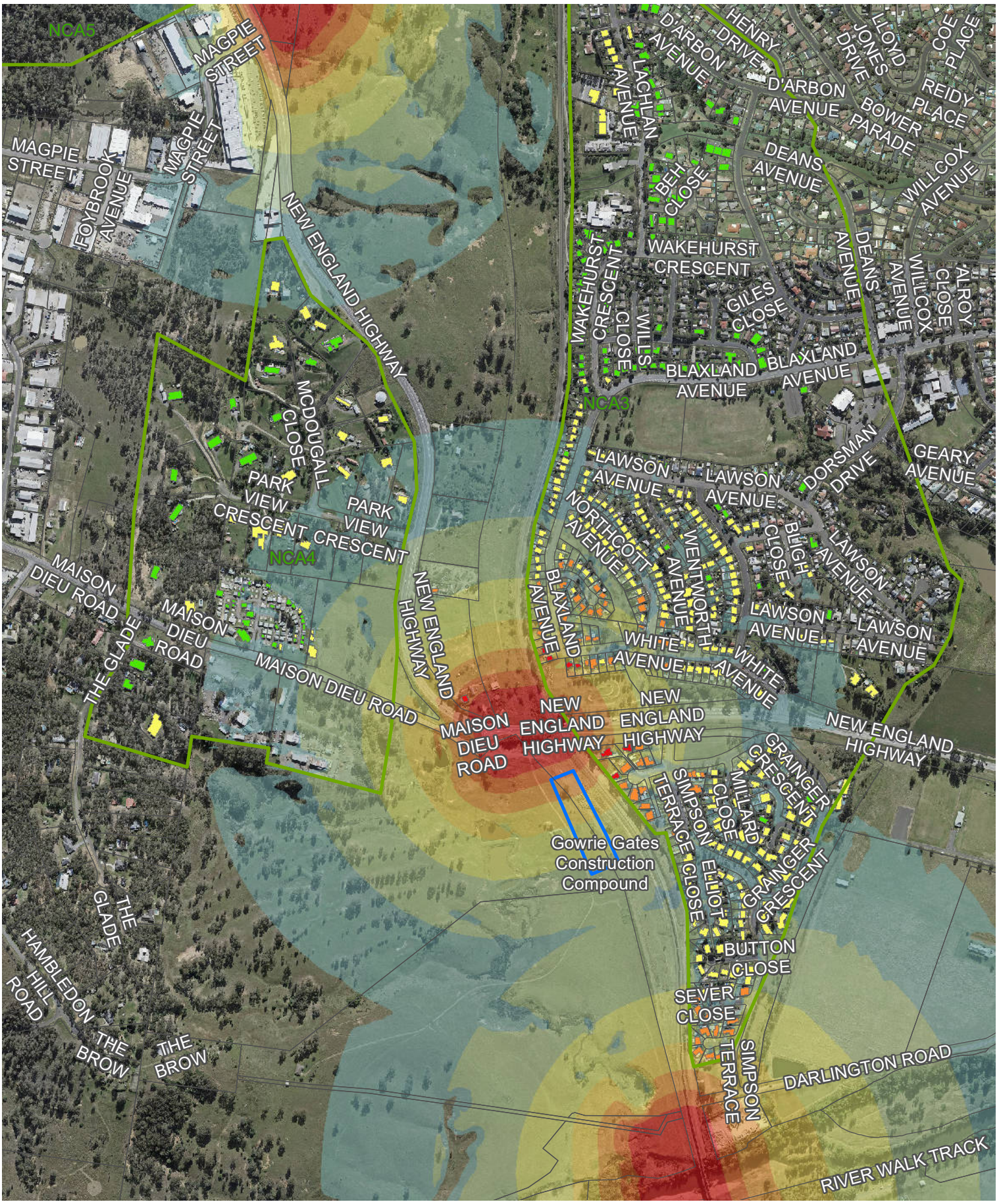
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Singleton Bypass - Noise Contours
Bridge construction - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25
> 25



AECOM

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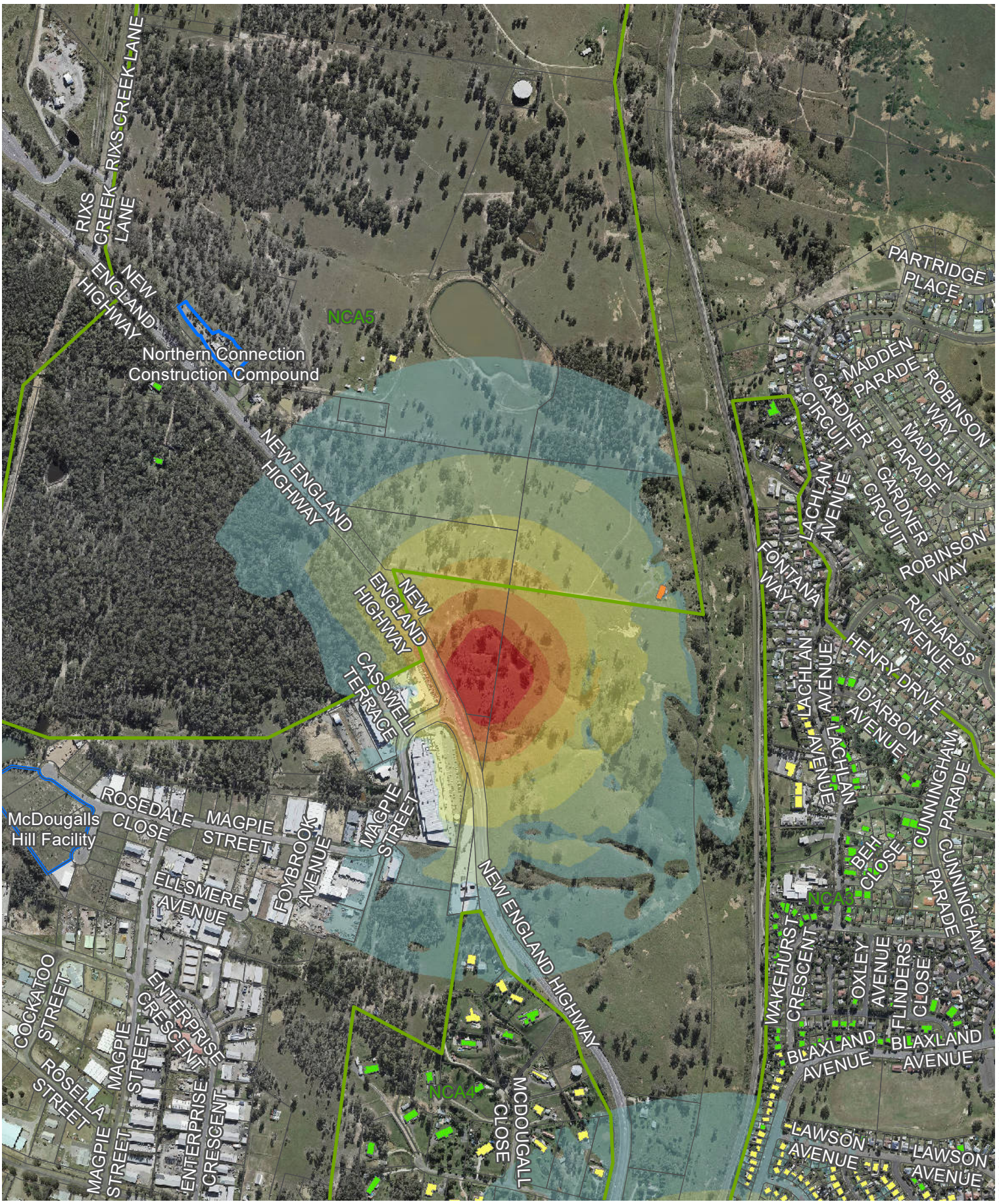
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Singleton Bypass - Noise Contours
Bridge construction - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25



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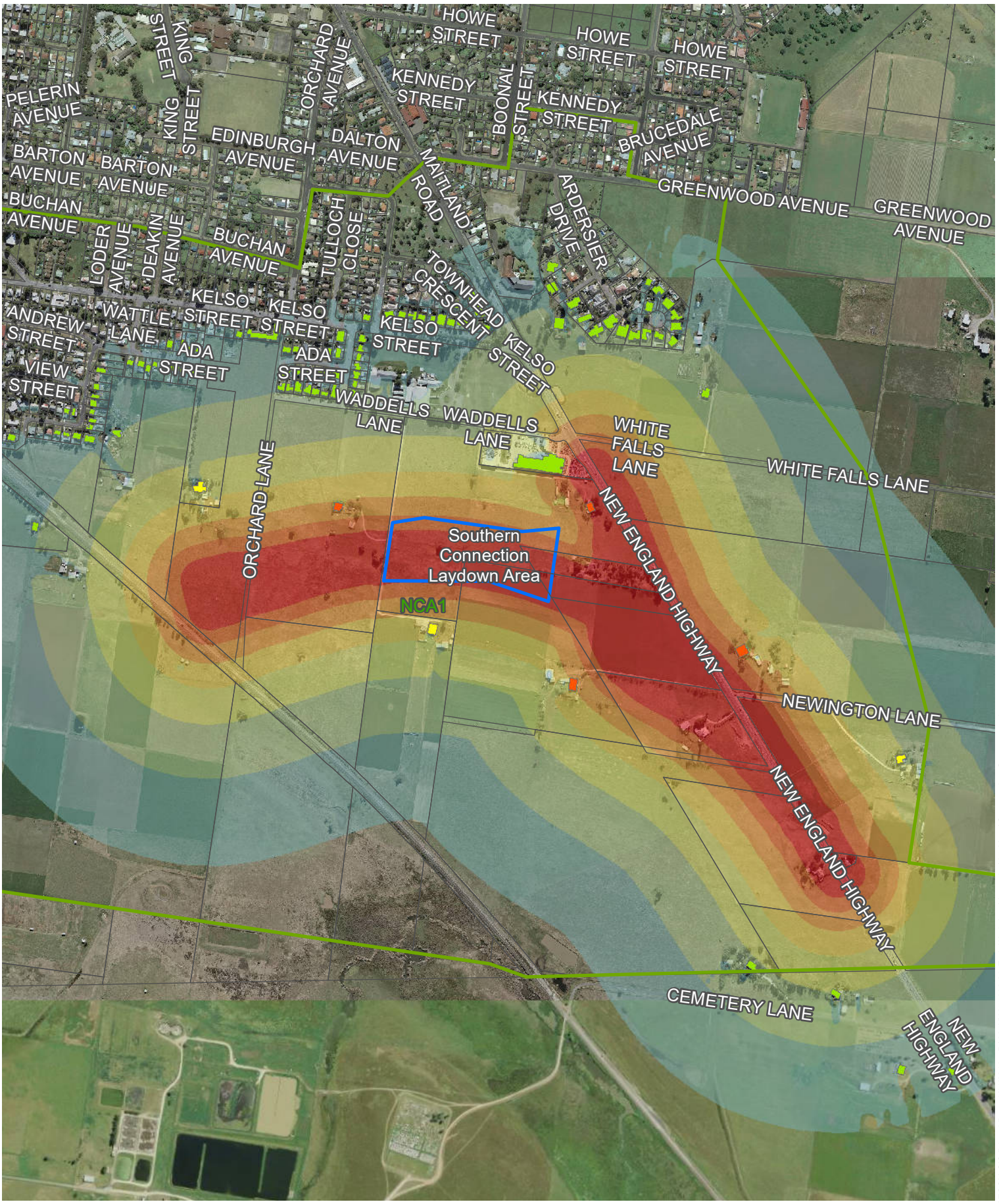
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Singleton Bypass - Noise Contours
Earthworks - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

N

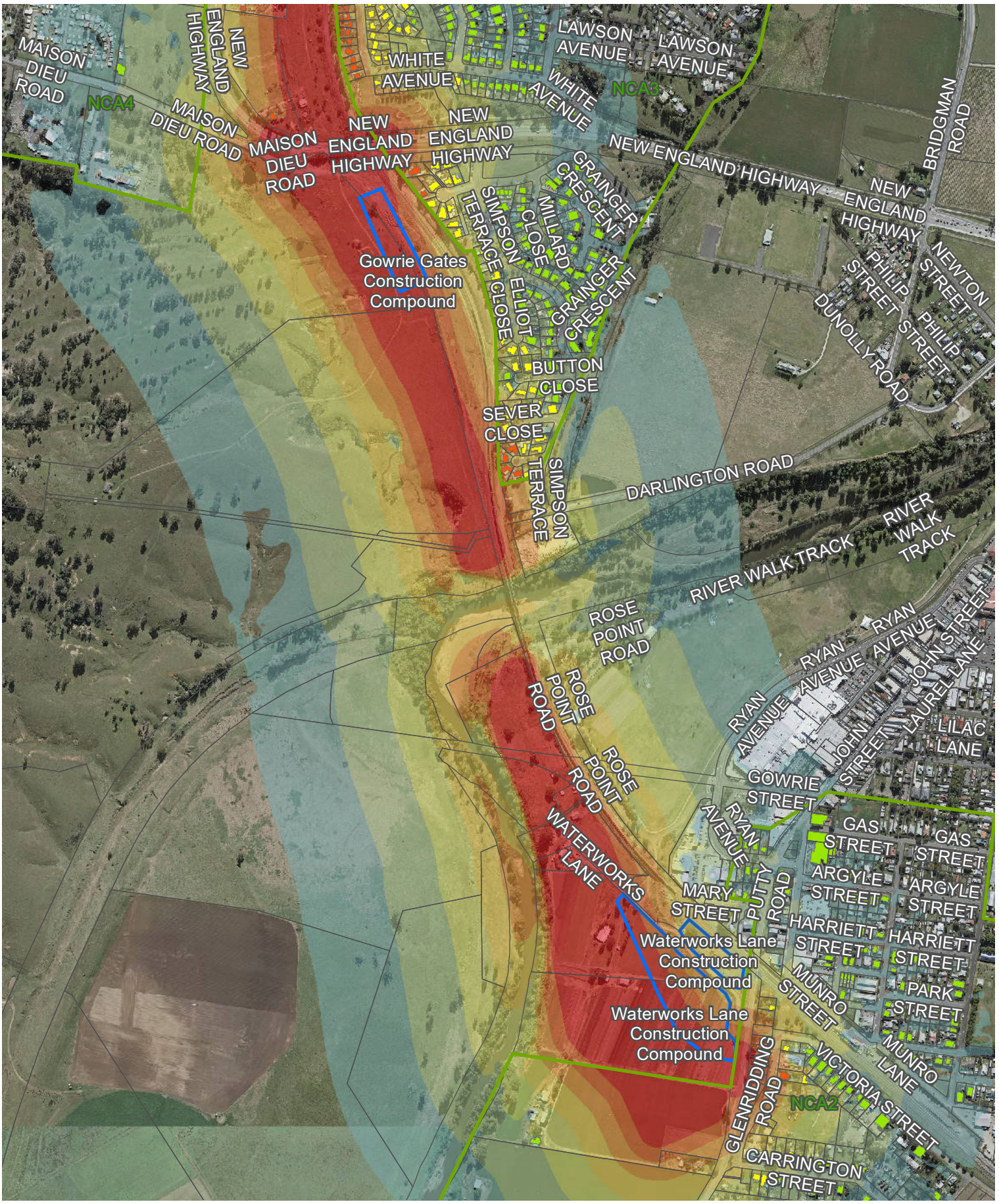
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Singleton Bypass - Noise Contours
Earthworks - Standard Hours

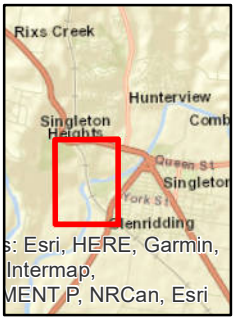
Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

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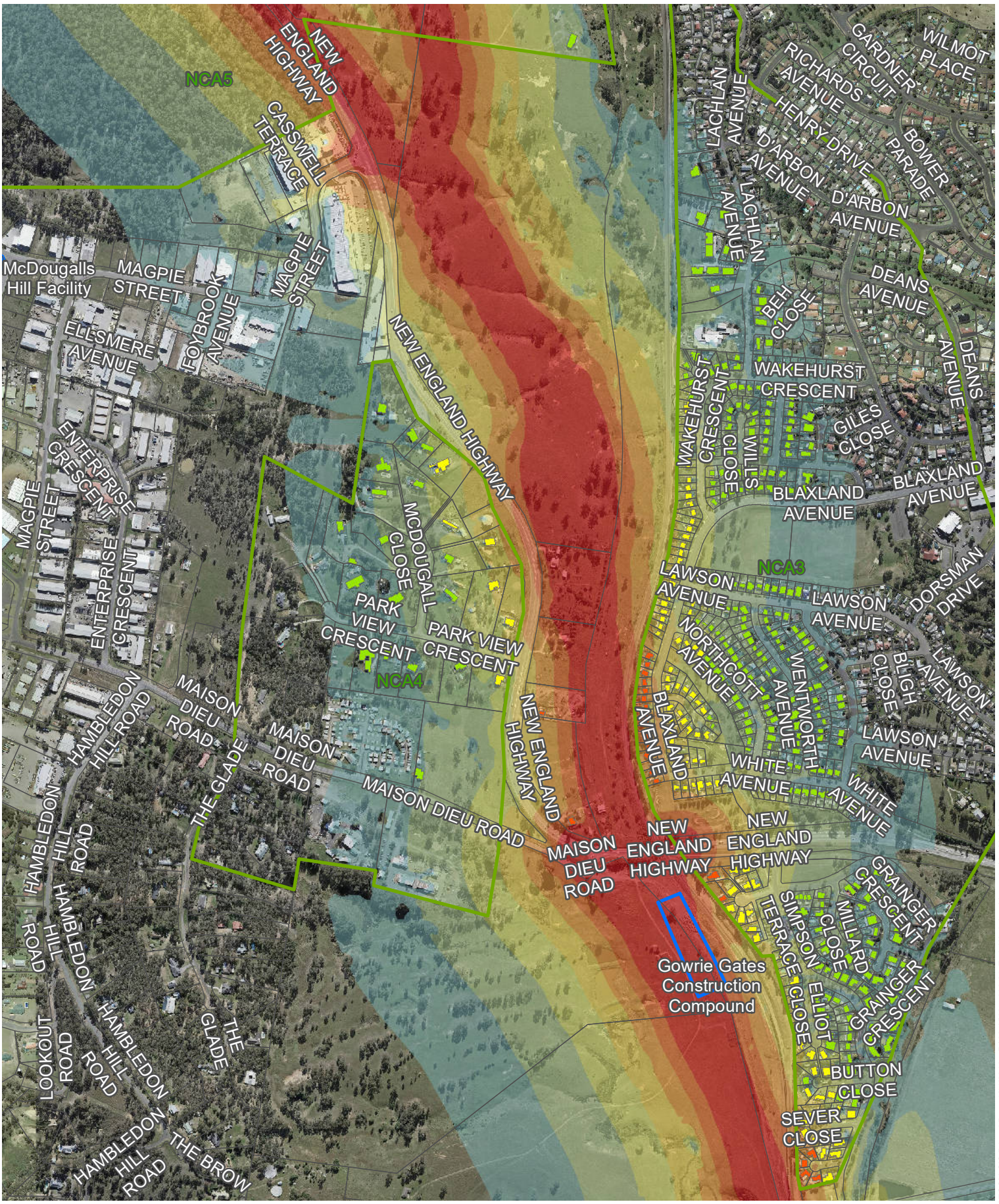
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Singleton Bypass - Noise Contours
Earthworks - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area

Compounds

Exceedance of NML, dB

0

1 - 10

11 - 20

> 20



AECOM

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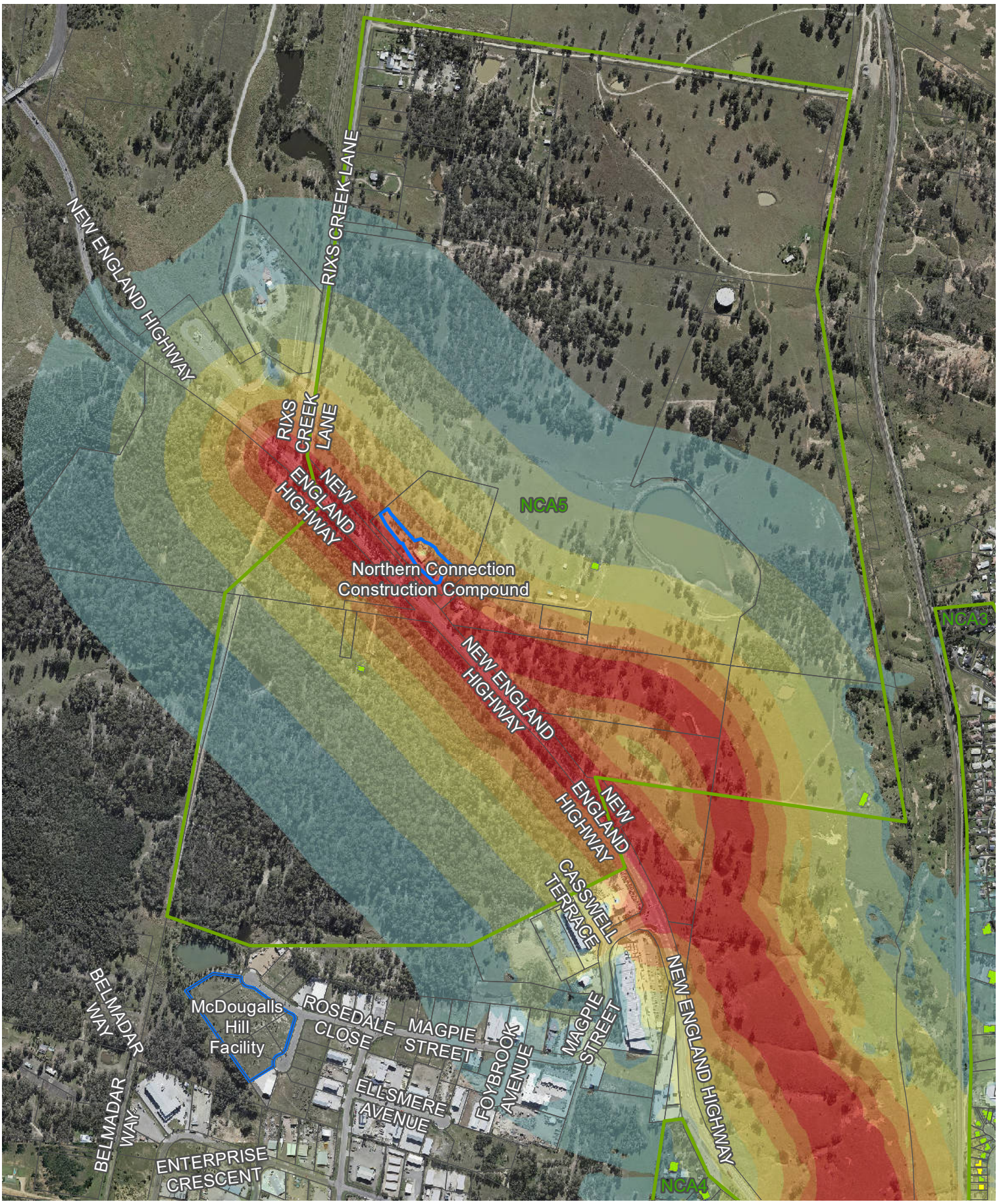
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Singleton Bypass - Noise Contours
Earthworks - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
> 20



AECOM

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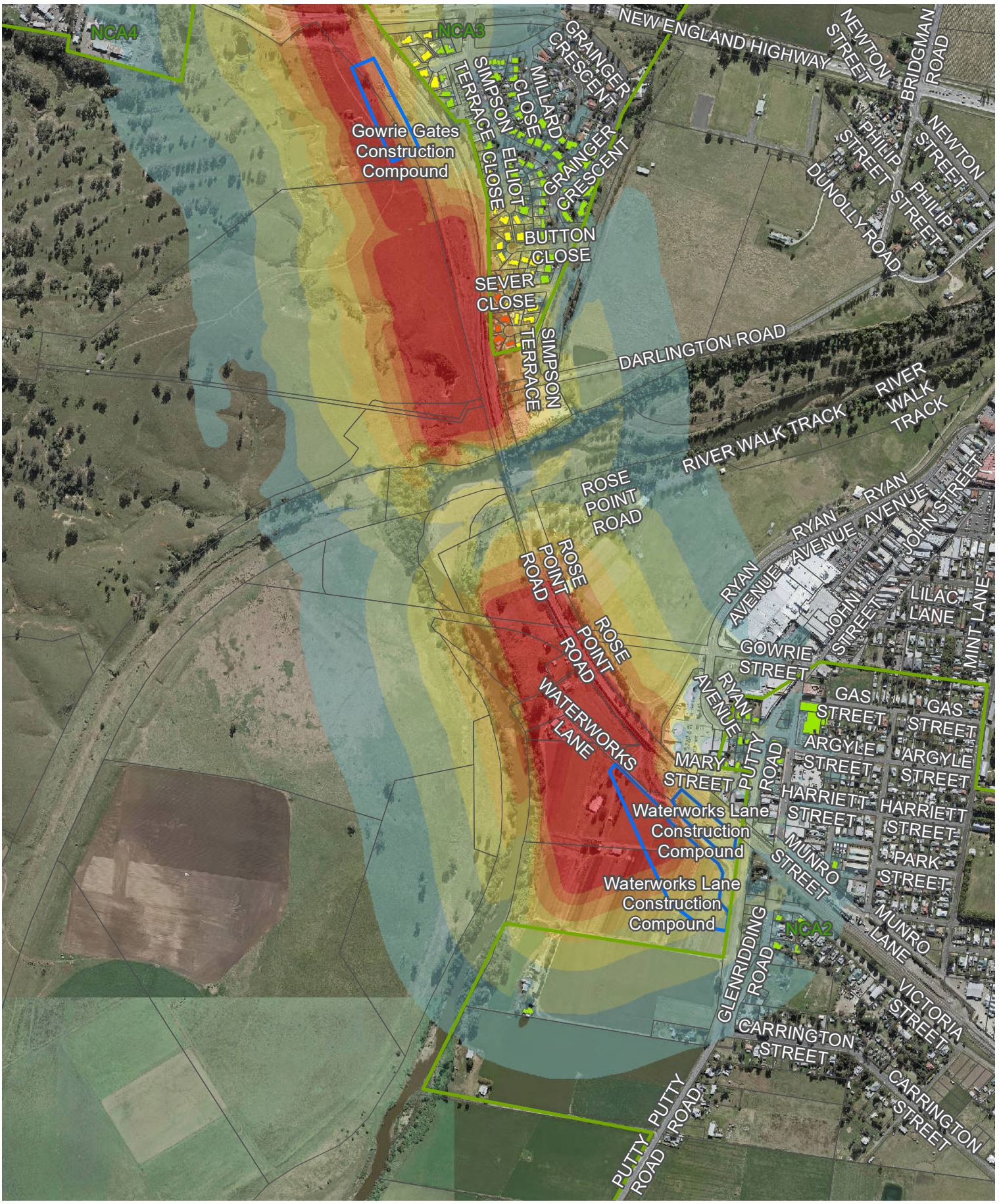
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Singleton Bypass - Noise Contours
Drainage - Standard Hours

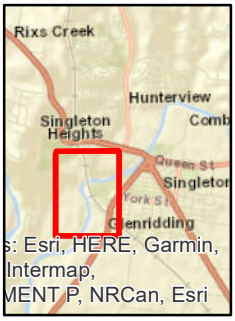
Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

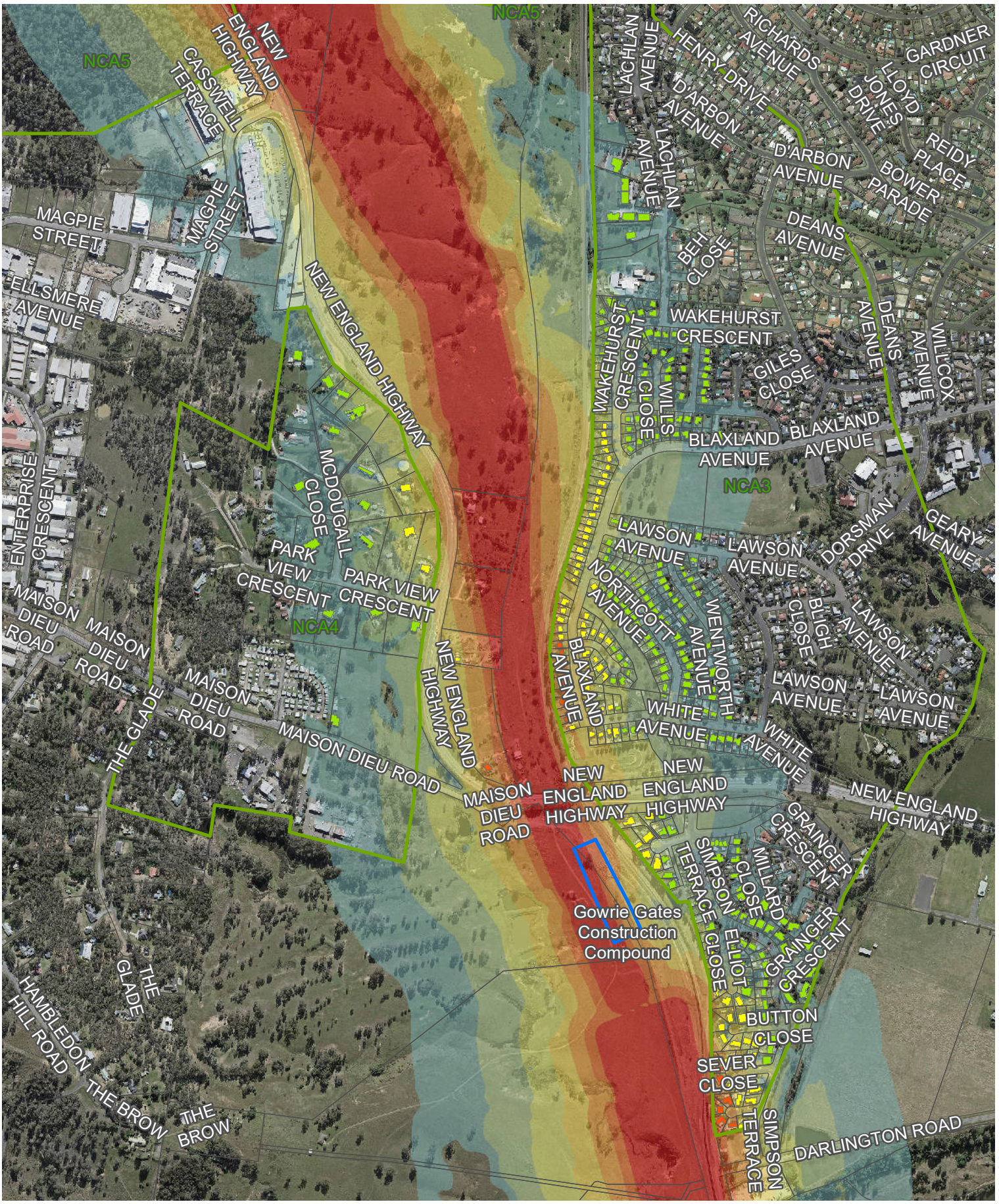
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Singleton Bypass - Noise Contours
Drainage - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 10
11 - 20
> 20



AECOM

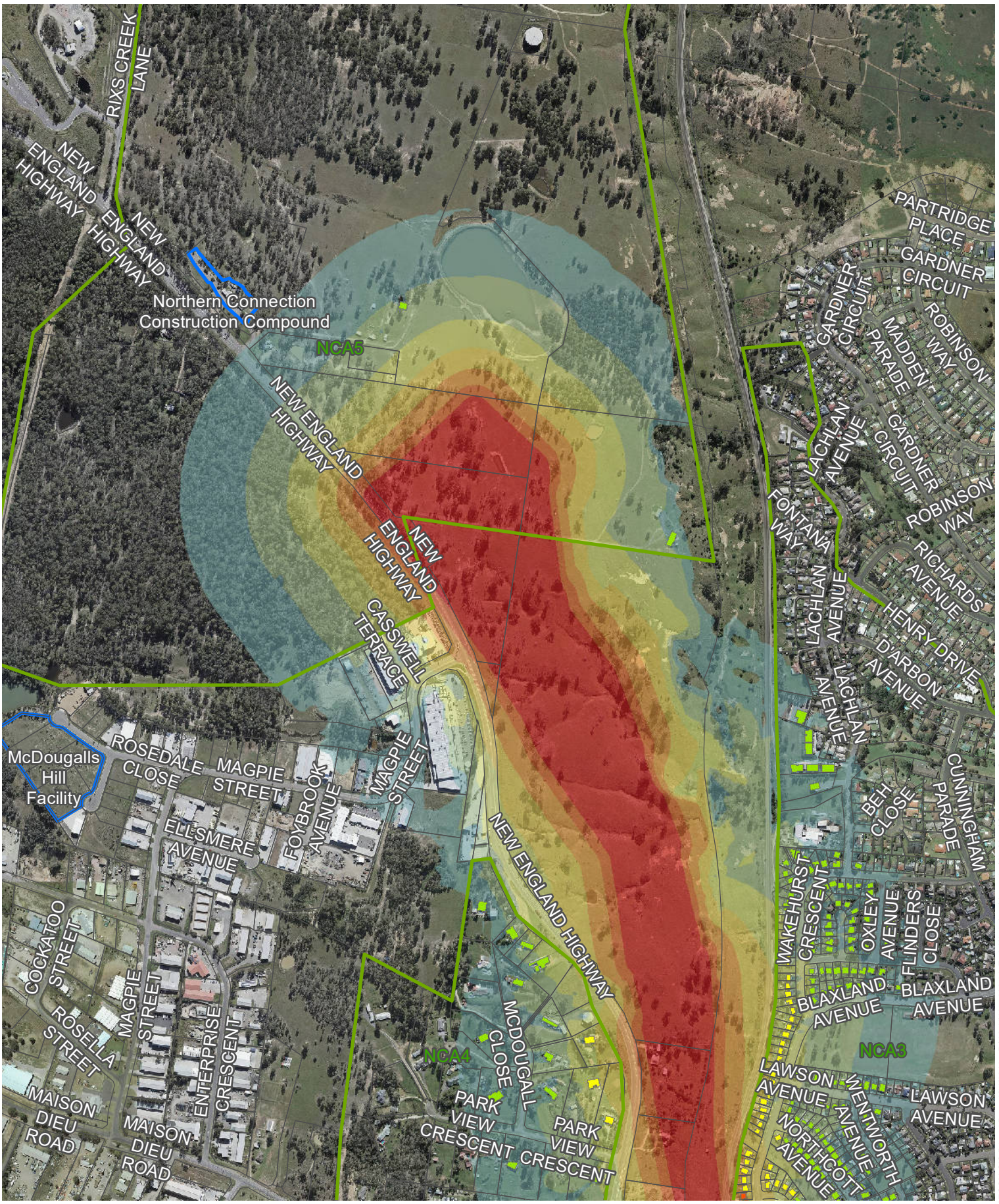
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Singleton Bypass - Noise Contours
Drainage - Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area

Compounds

Exceedance of NML, dB

0

1 - 10

11 - 20



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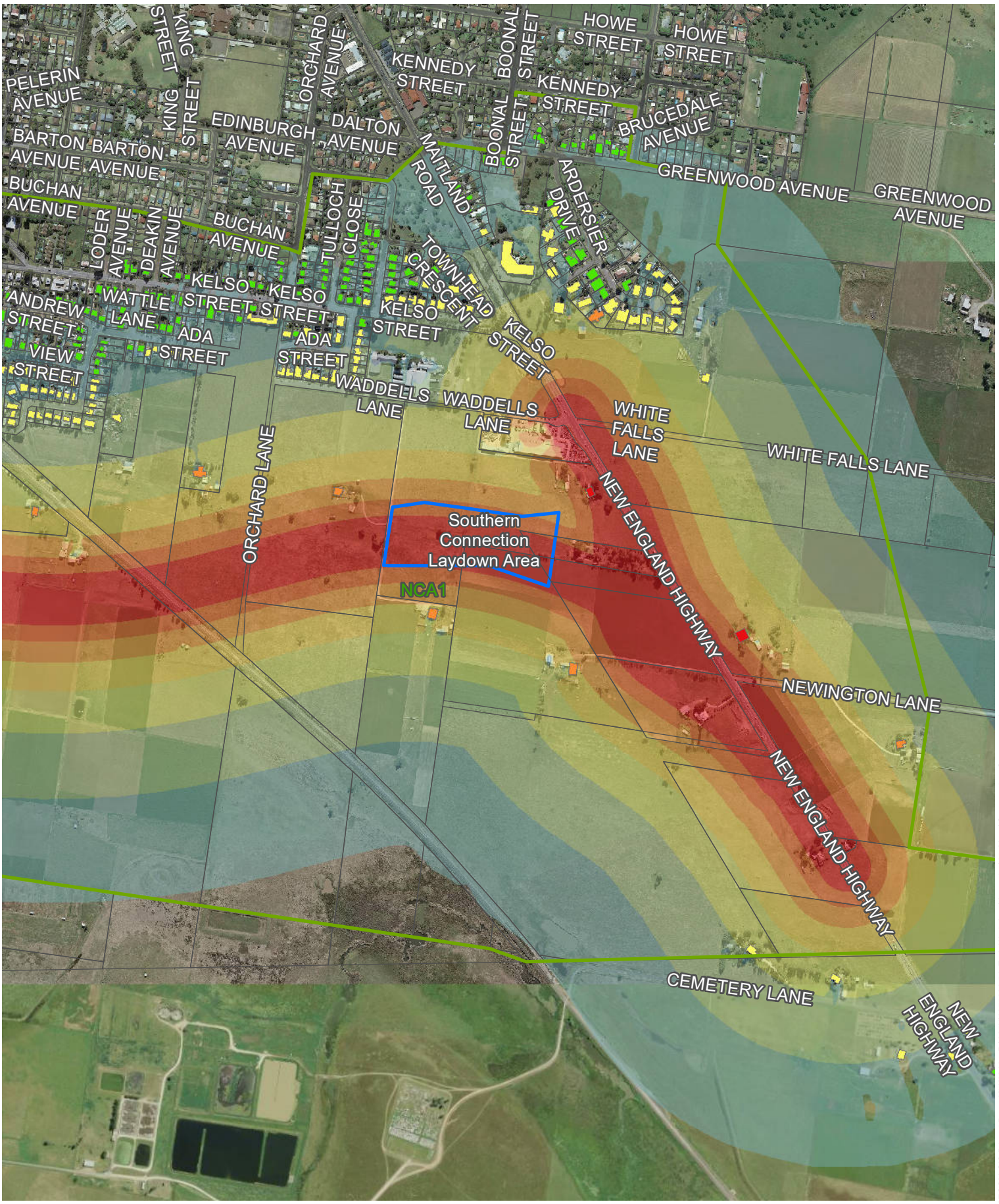
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Singleton Bypass - Noise Contours
Pavement Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45
45 - 49
50 - 54
55 - 59
60 - 64
65 - 69
70 - 74
>= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25
> 25



AECOM

N

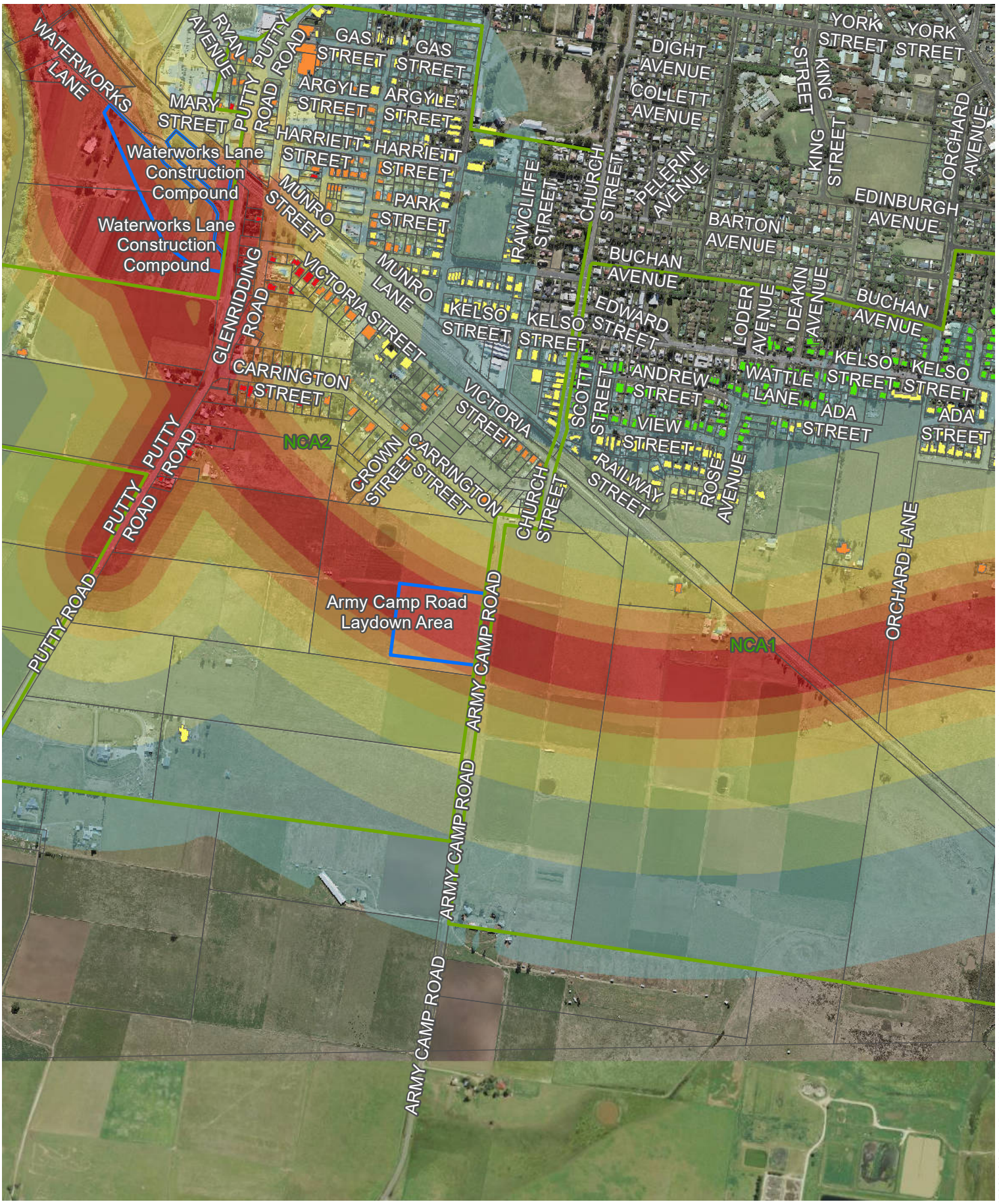
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Singleton Bypass - Noise Contours
Pavement Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25
> 25



AECOM

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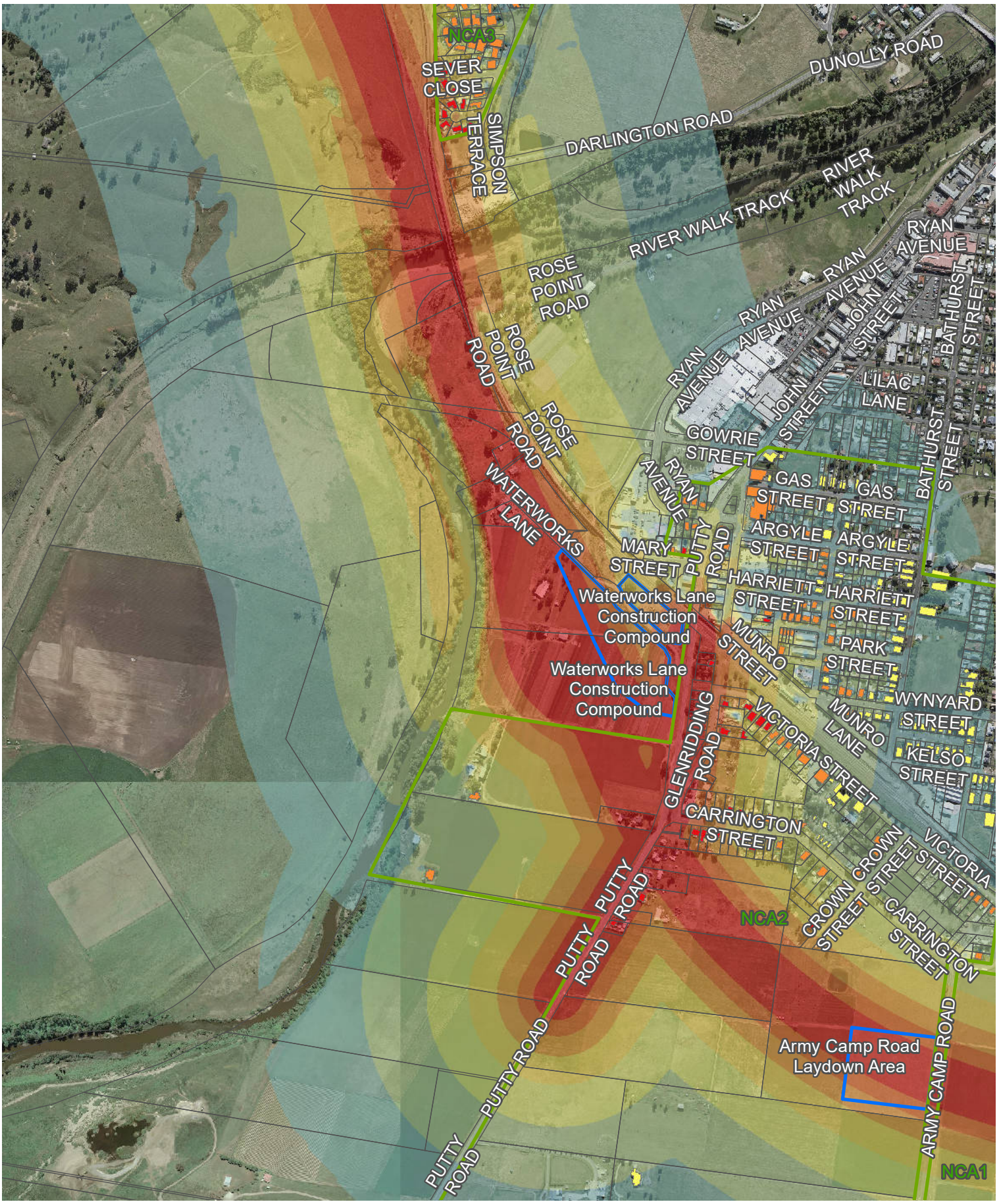
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Singleton Bypass - Noise Contours
Pavement Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

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Noise Catchment Area

Compounds

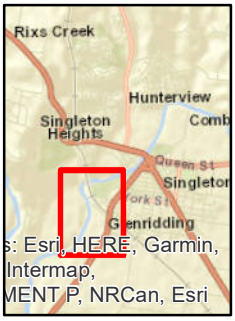
Exceedance of NML, dB

0

6 - 15

16 - 25

> 25



AECOM

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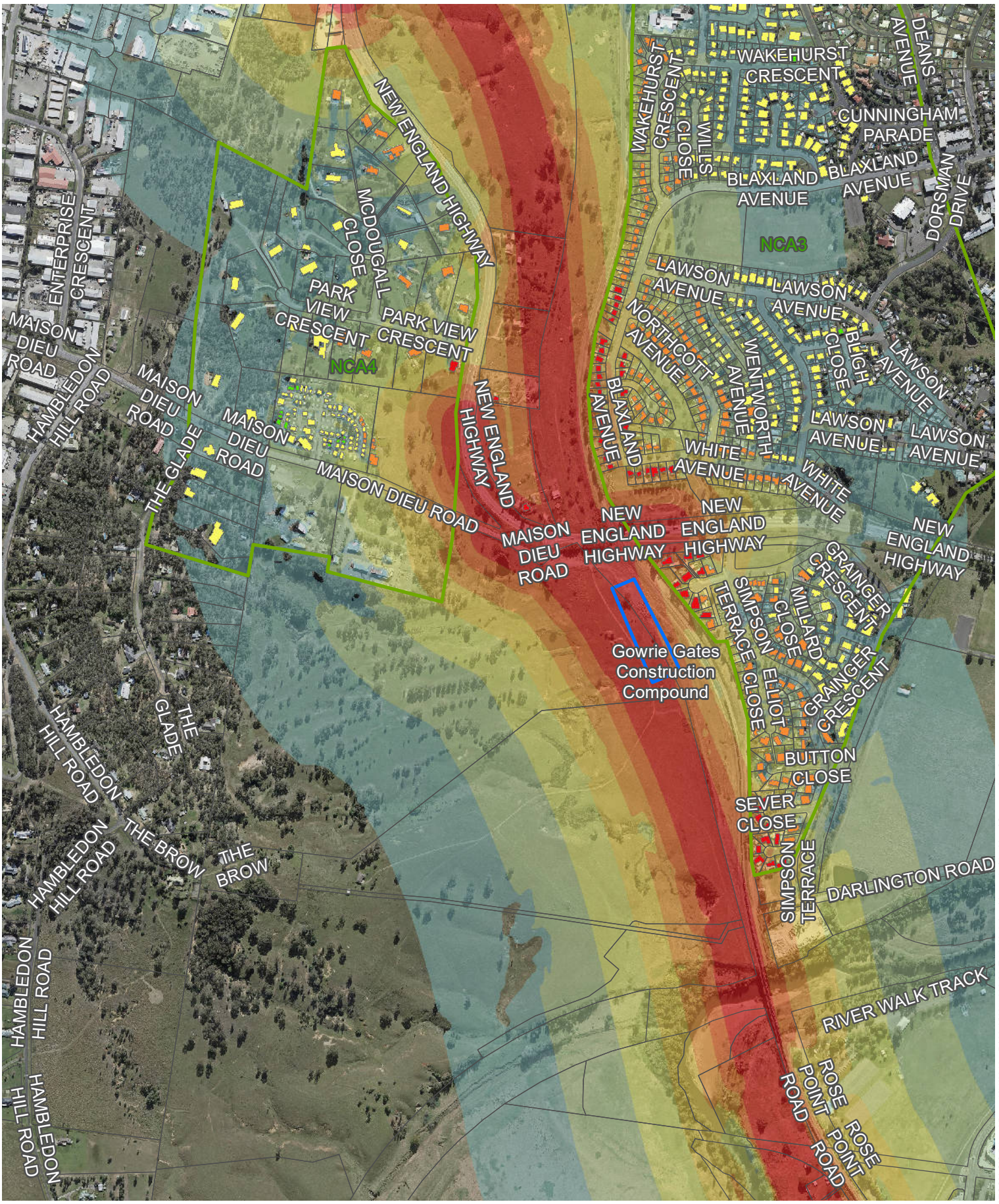
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Singleton Bypass - Noise Contours
Pavement Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25
> 25



AECOM

N

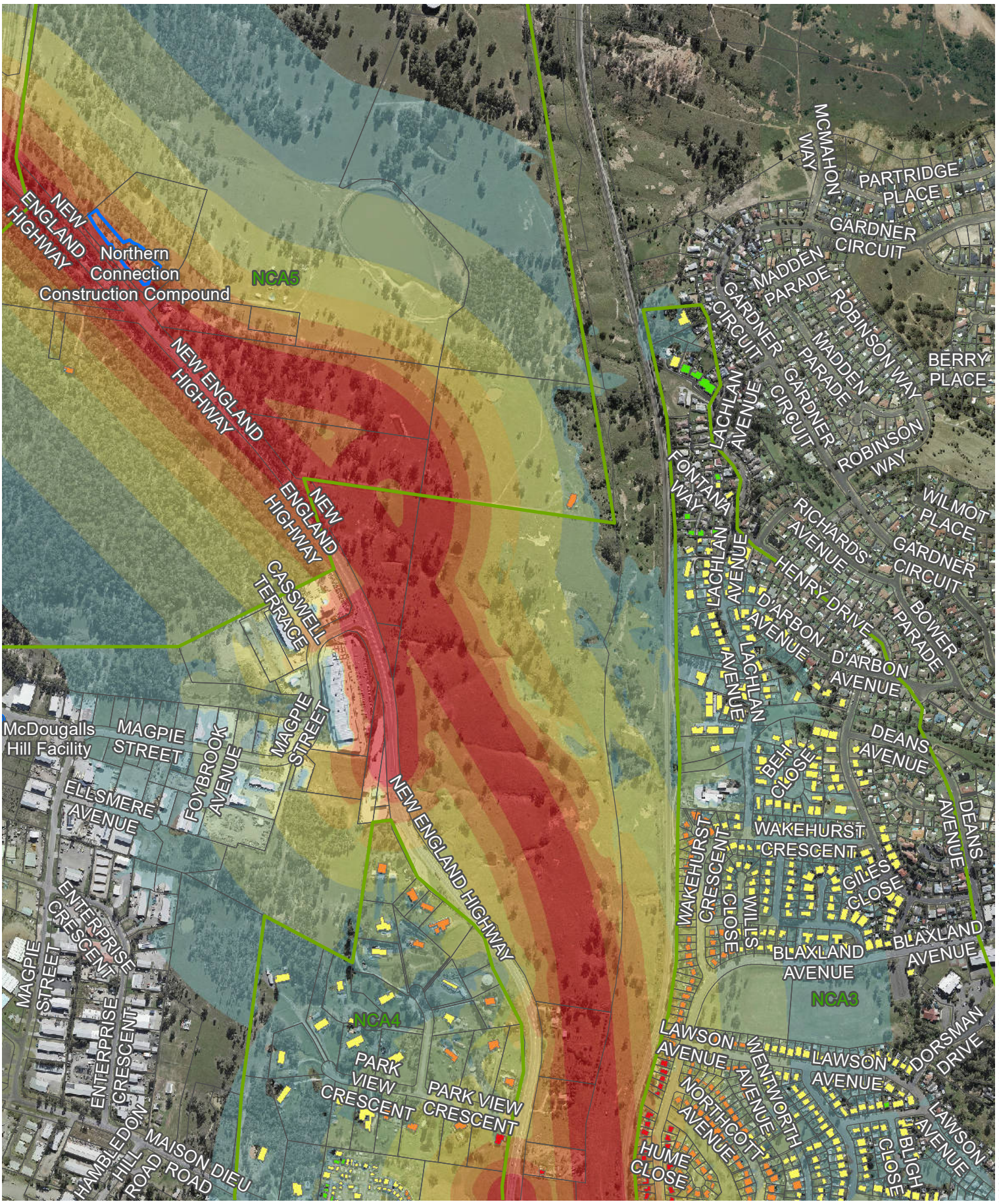
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Singleton Bypass - Noise Contours
Pavement Works - Outside Standard Hours

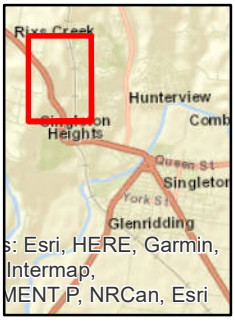
Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
1 - 5
6 - 15
16 - 25
> 25



AECOM

N

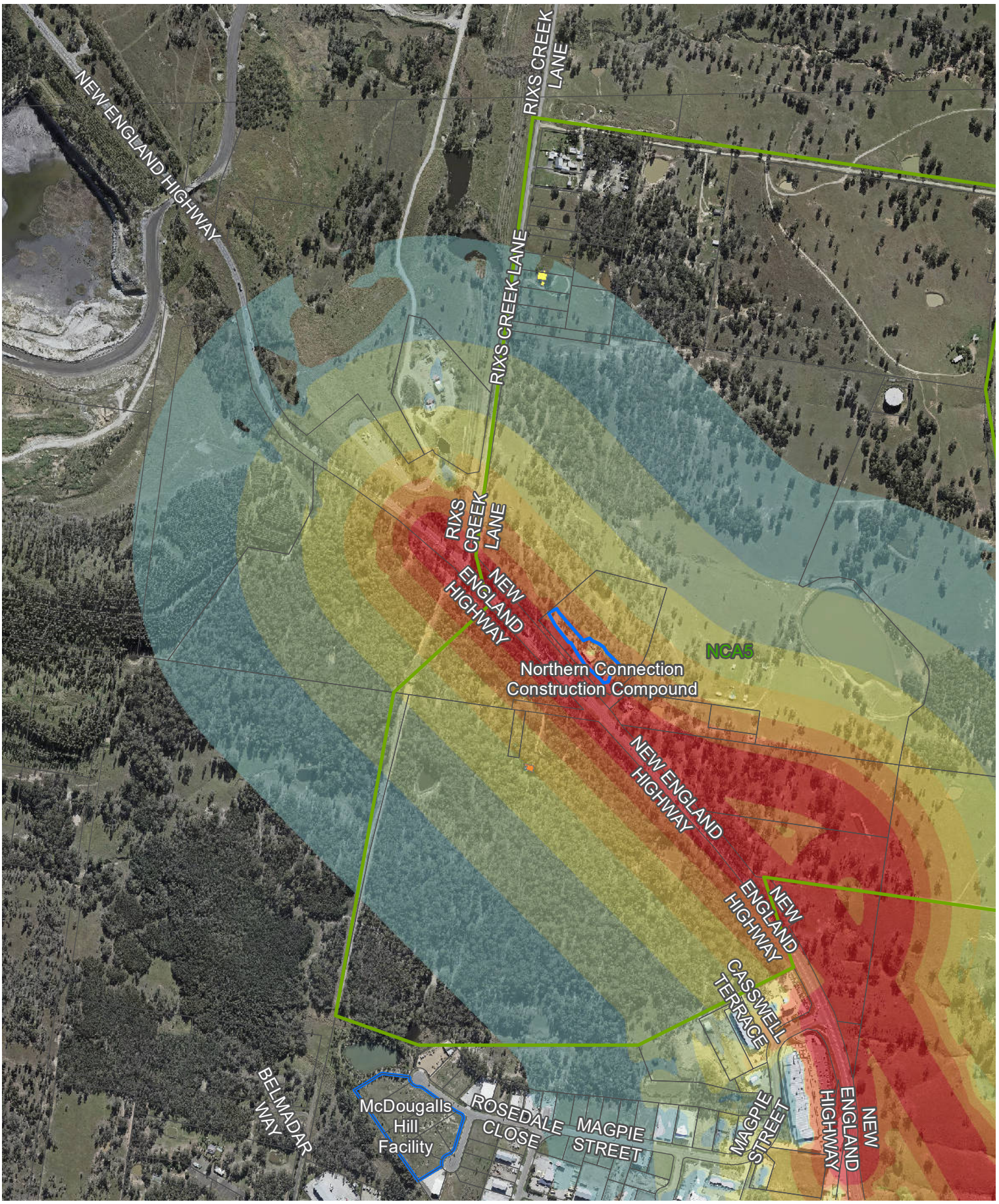
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Singleton Bypass - Noise Contours
Pavement Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds

Exceedance of NML, dB

0
6 - 15
16 - 25
> 25



AECOM

N

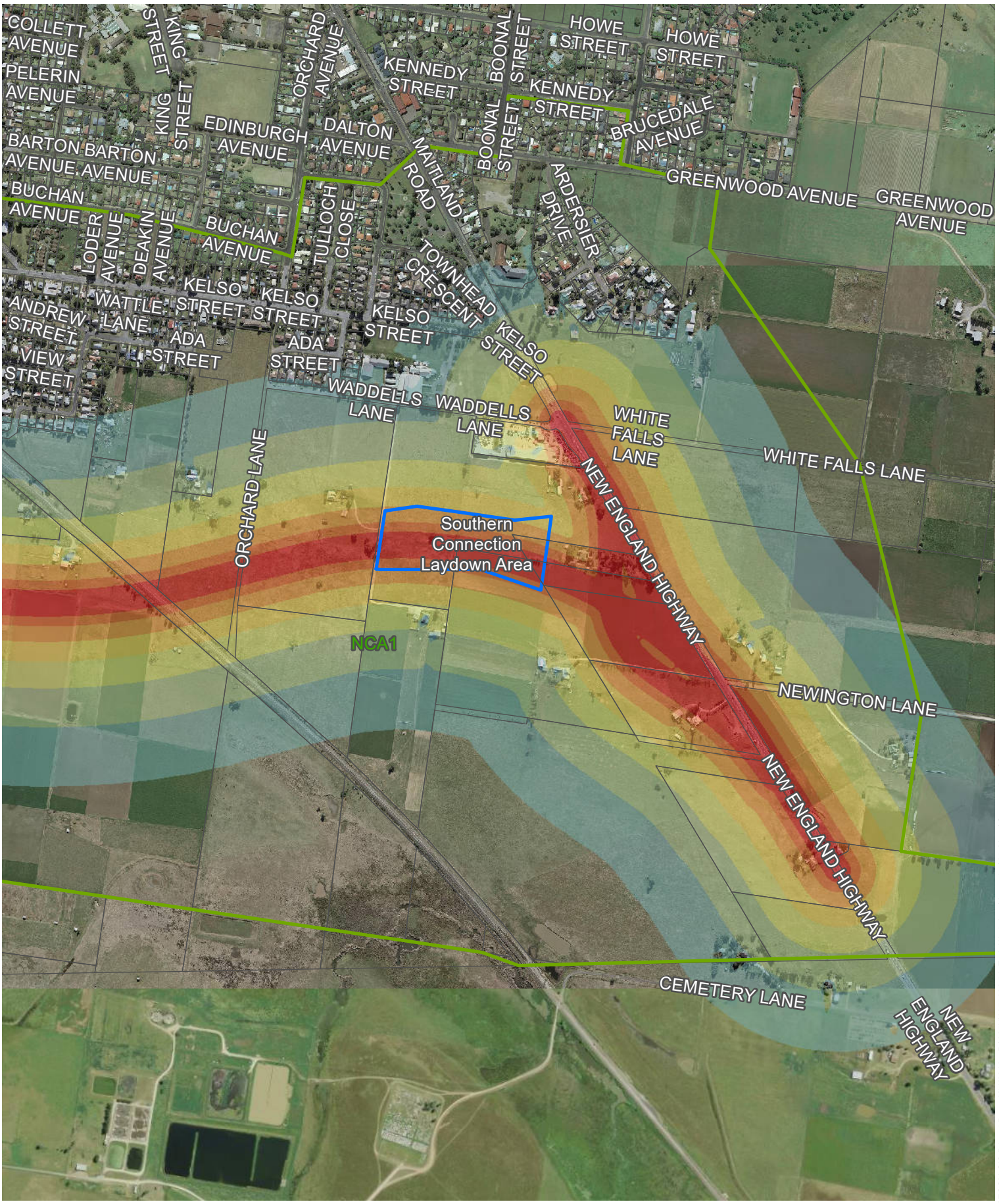
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Singleton Bypass - Noise Contours
Finishing Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds



AECOM

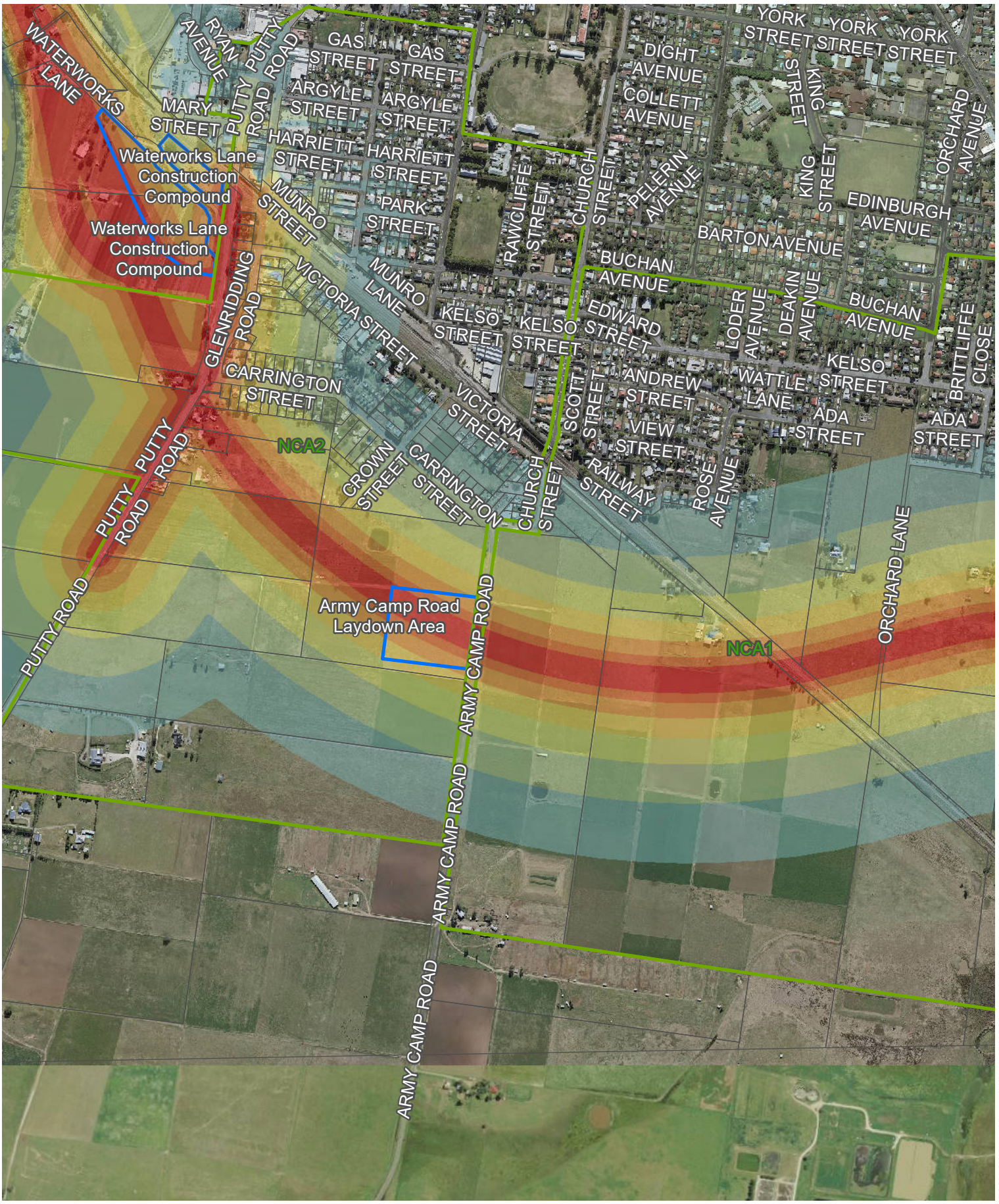
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Singleton Bypass - Noise Contours
Finishing Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds



AECOM

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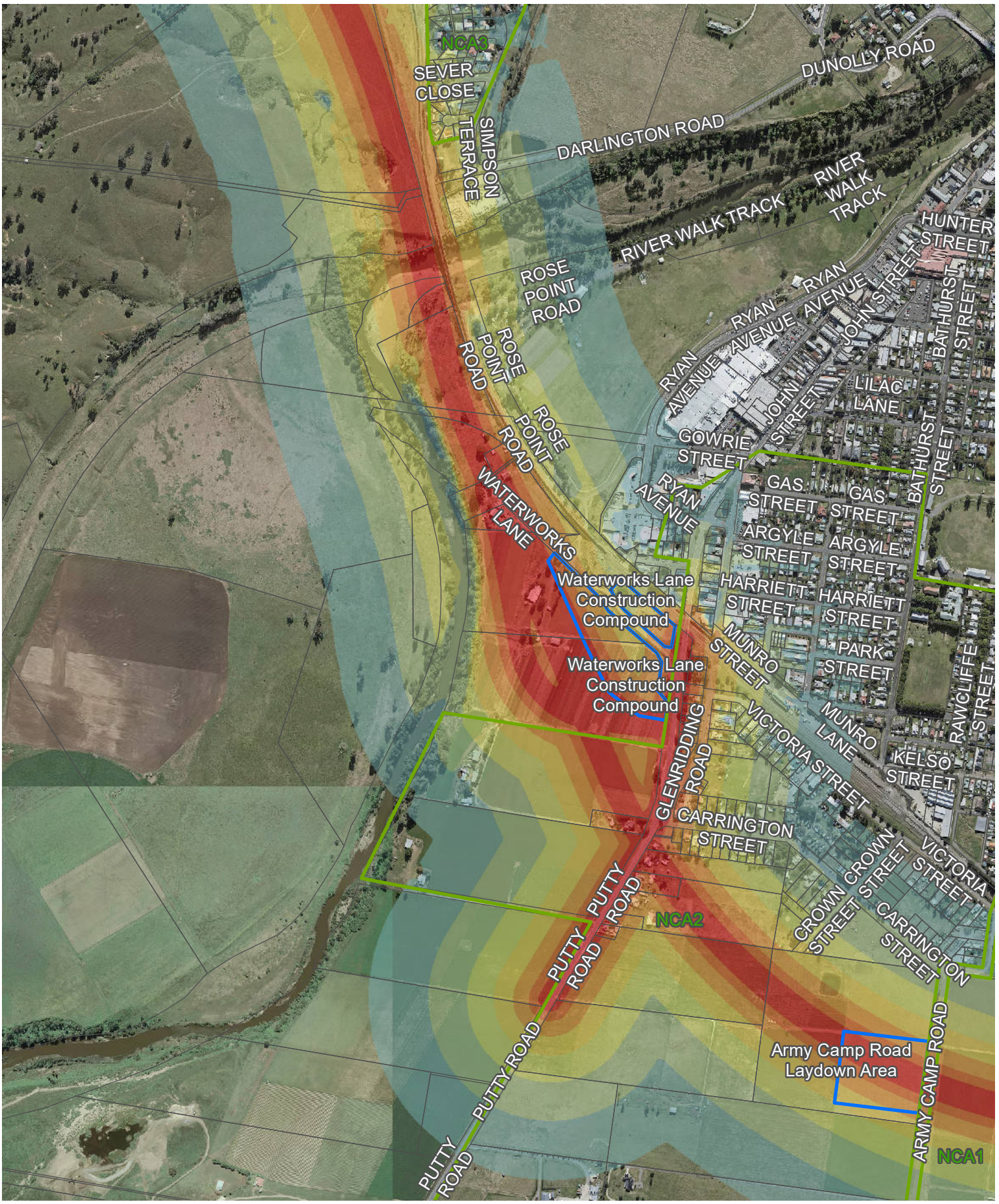
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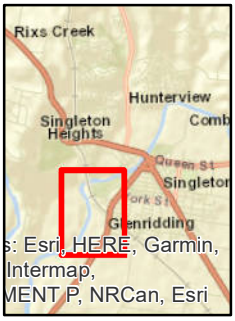


Singleton Bypass - Noise Contours
Finishing Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds



AECOM

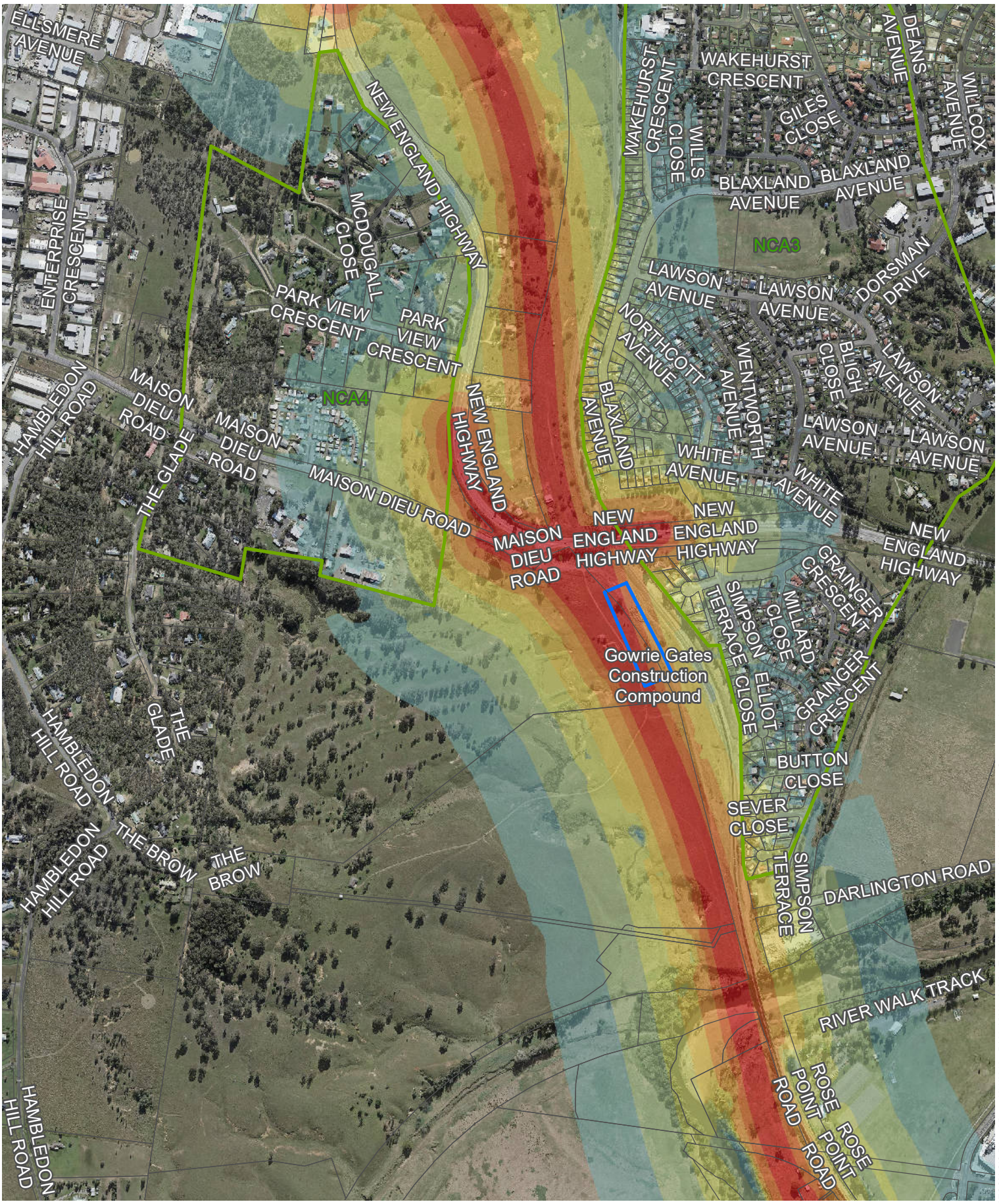
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Singleton Bypass - Noise Contours
Finishing Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds



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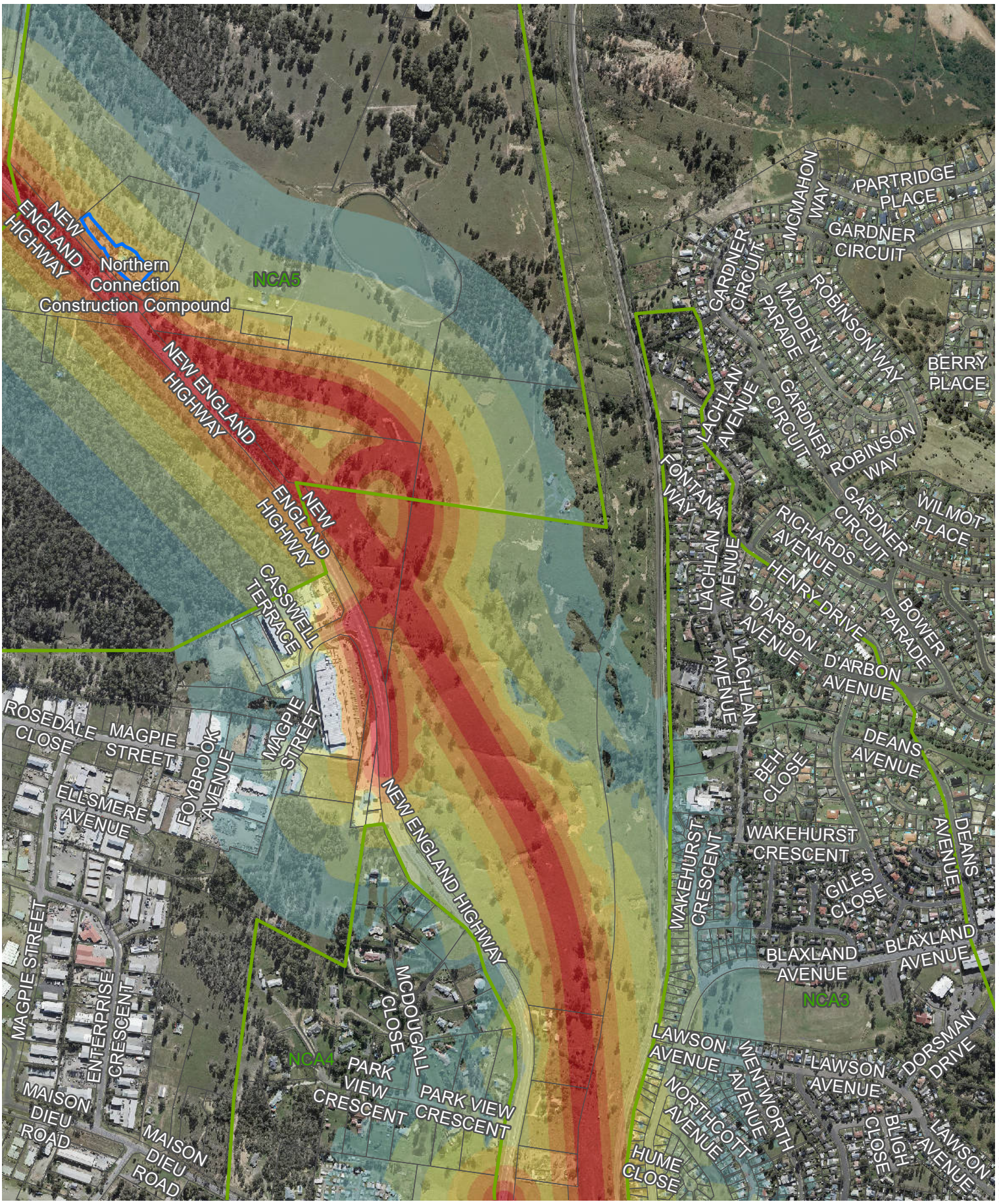
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Singleton Bypass - Noise Contours
Finishing Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds



AECOM

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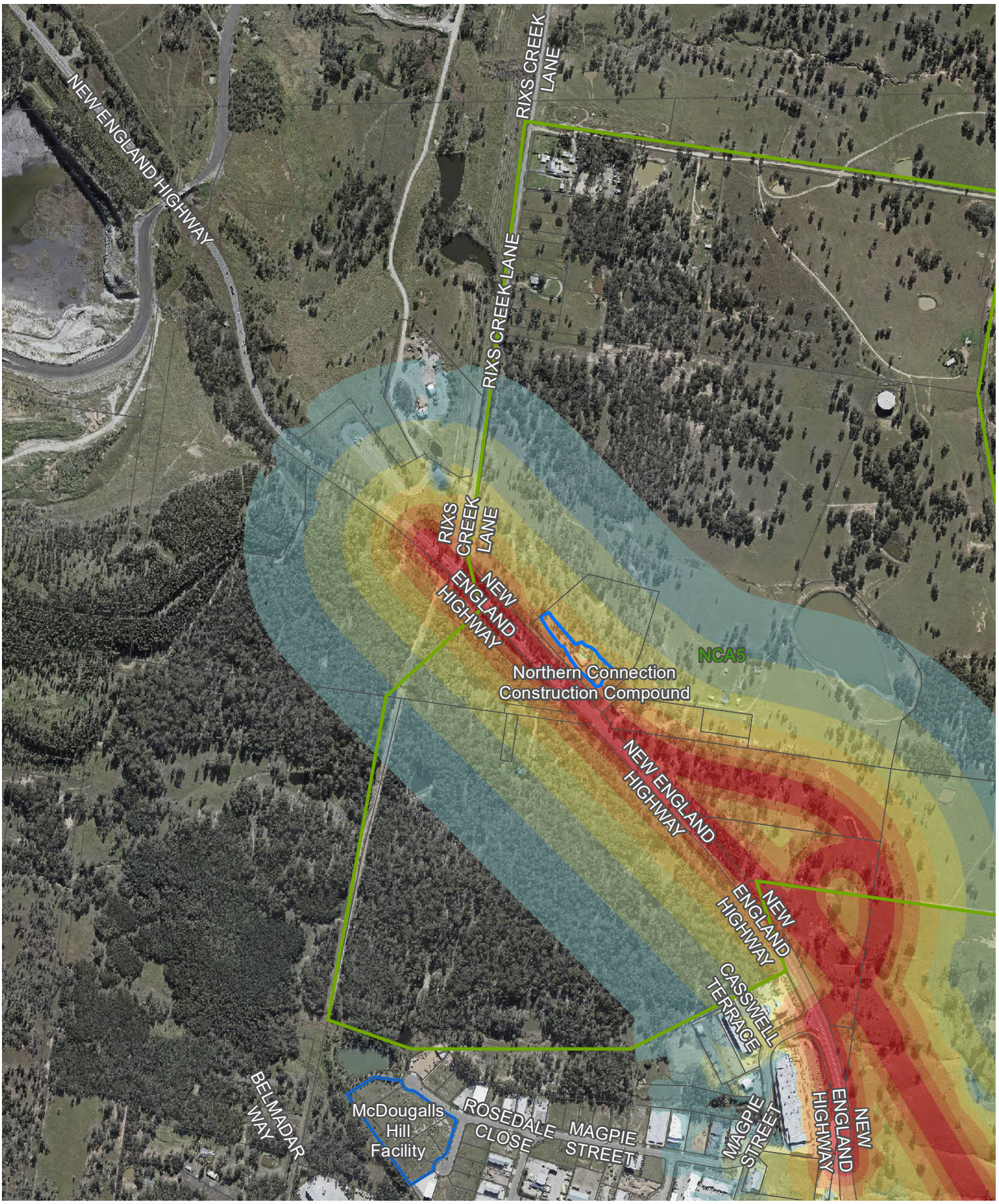
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Singleton Bypass - Noise Contours
Finishing Works - Outside Standard Hours

Sound Pressure Level, L_{Aeq} dB(A)

< 45 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 | >= 75

Noise Catchment Area
Compounds



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0 125 250 500 m

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Singleton Bypass - Sleep Disturbance Noise Contours
Southern Connection - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55
55 - 59
60 - 64
64 - 69
69 - 74
74 - 79

Noise Catchment Area
Compounds



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0 125 250 500 m

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Singleton Bypass - Sleep Disturbance Noise Contours
Army Camp Rd - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55
55 - 59
60 - 64
64 - 69
69 - 74
74 - 79

Noise Catchment Area
Compounds



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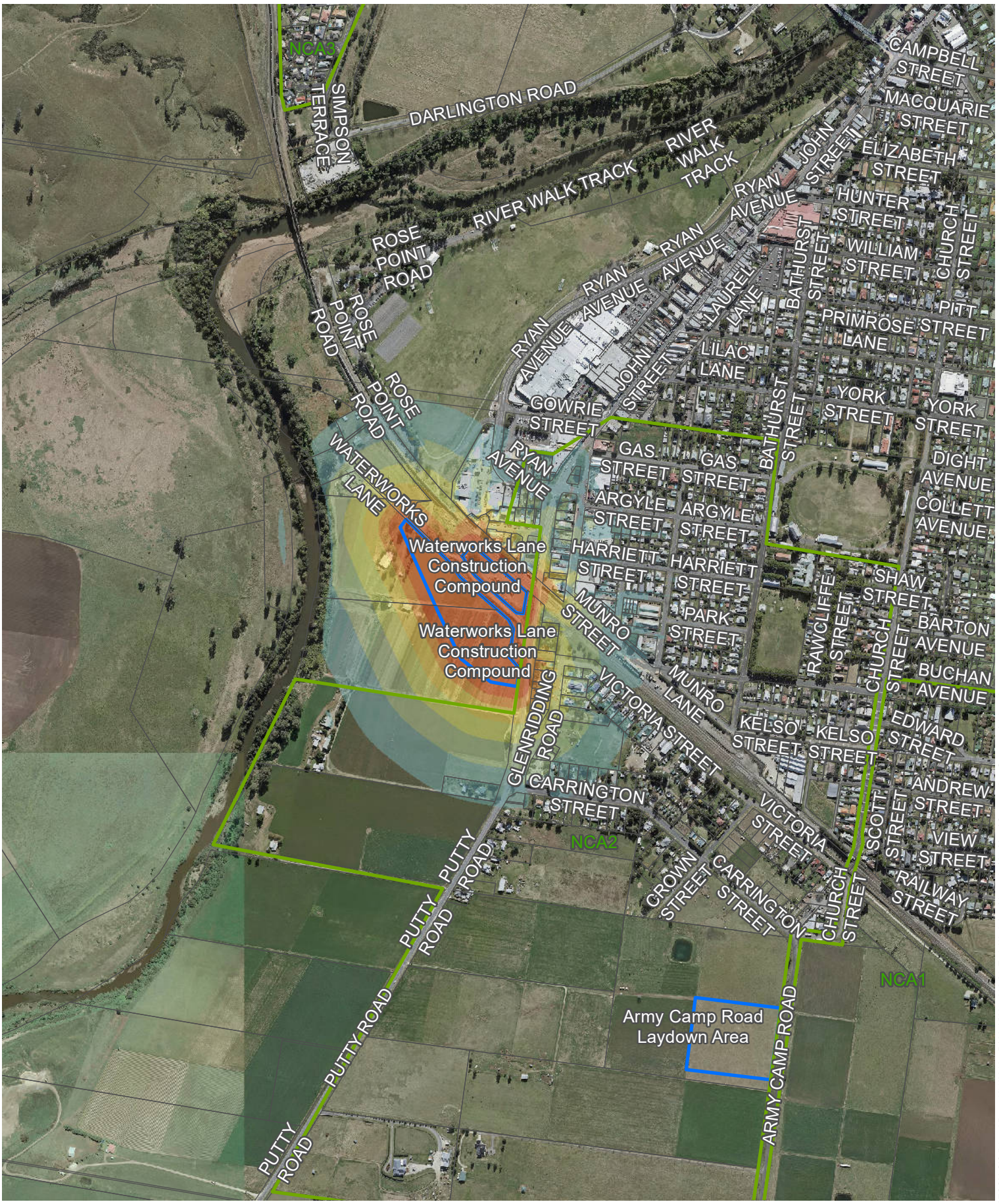
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Singleton Bypass - Sleep Disturbance Noise Contours
Waterworks Lane - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55
55 - 59
60 - 64
64 - 69
69 - 74
74 - 79
79 - 84

Noise Catchment Area
Compounds



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0 125 250 500 m

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Singleton Bypass - Sleep Disturbance Noise Contours
Gowrie Gates - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55	55 - 59	60 - 64	64 - 69	69 - 74	74 - 79	79 - 84

Noise Catchment Area
Compounds



AECOM

N

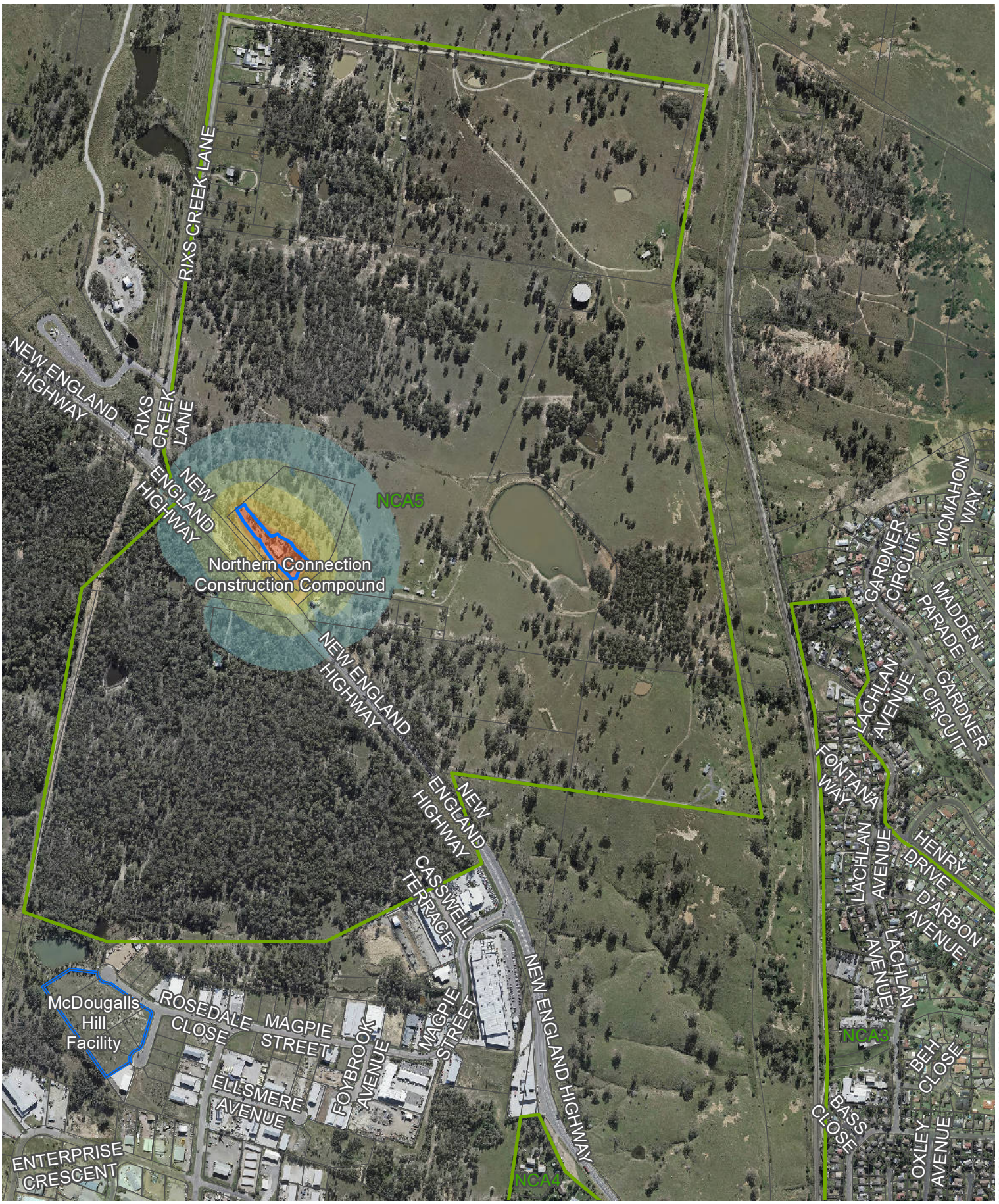
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Singleton Bypass - Sleep Disturbance Noise Contours
Northern Connection - Laydown, storage and delivery - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55
55 - 59
60 - 64
64 - 69
69 - 74
74 - 79
79 - 84

Noise Catchment Area
Compounds



AECOM

N

0 125 250 500 m

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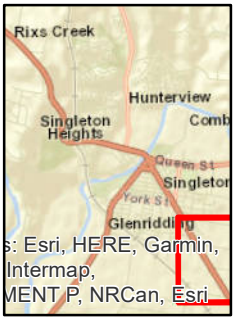


Singleton Bypass - Sleep Disturbance Noise Contours
Bridge construction - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55
55 - 59
60 - 64
64 - 69
69 - 74
74 - 79
79 - 84
> 85

Noise Catchment Area
Compounds



AECOM

N

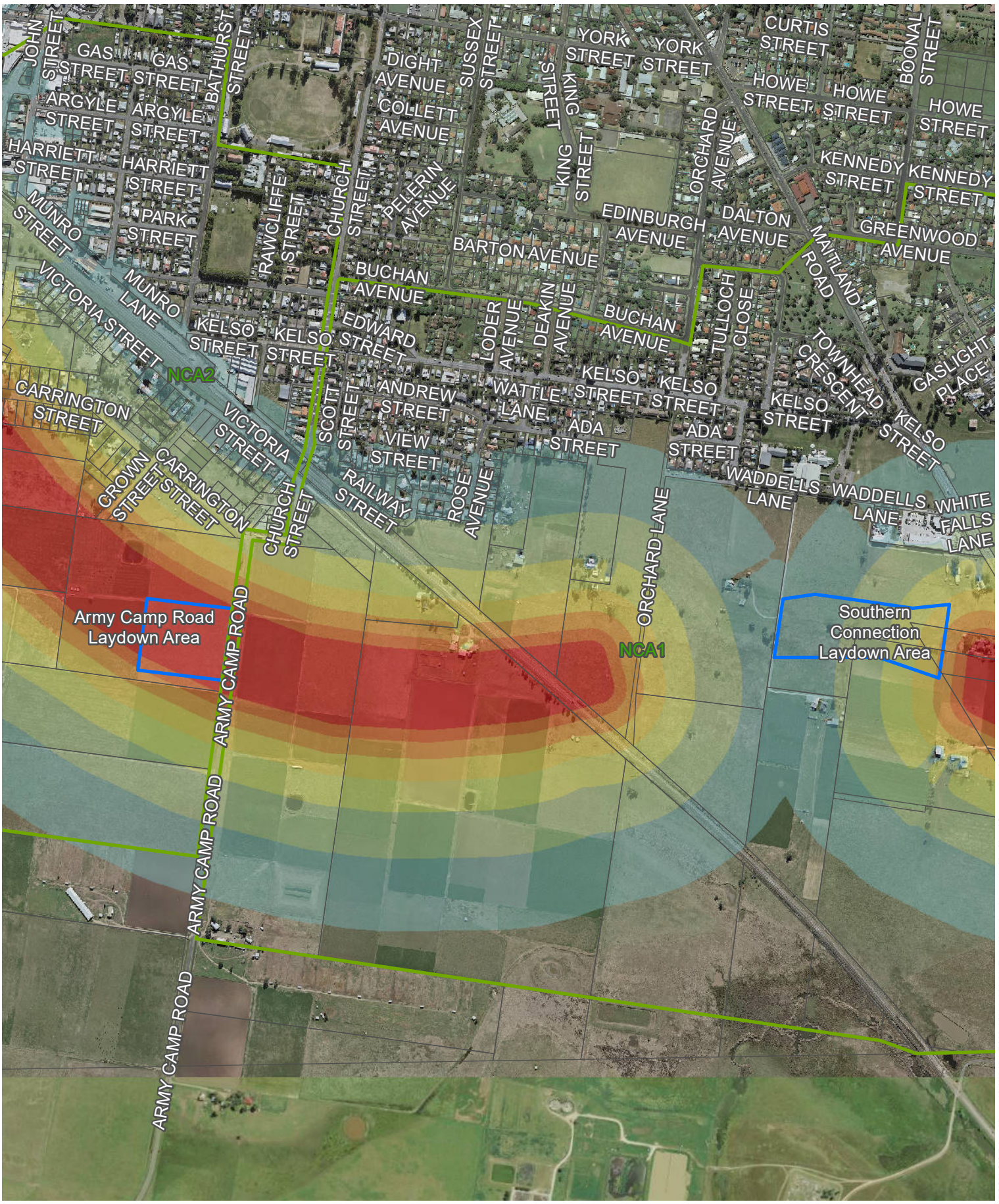
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Singleton Bypass - Sleep Disturbance Noise Contours
Bridge construction - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55 | 55 - 59 | 60 - 64 | 64 - 69 | 69 - 74 | 74 - 79 | 79 - 84 | > 85

Noise Catchment Area
Compounds



AECOM

N

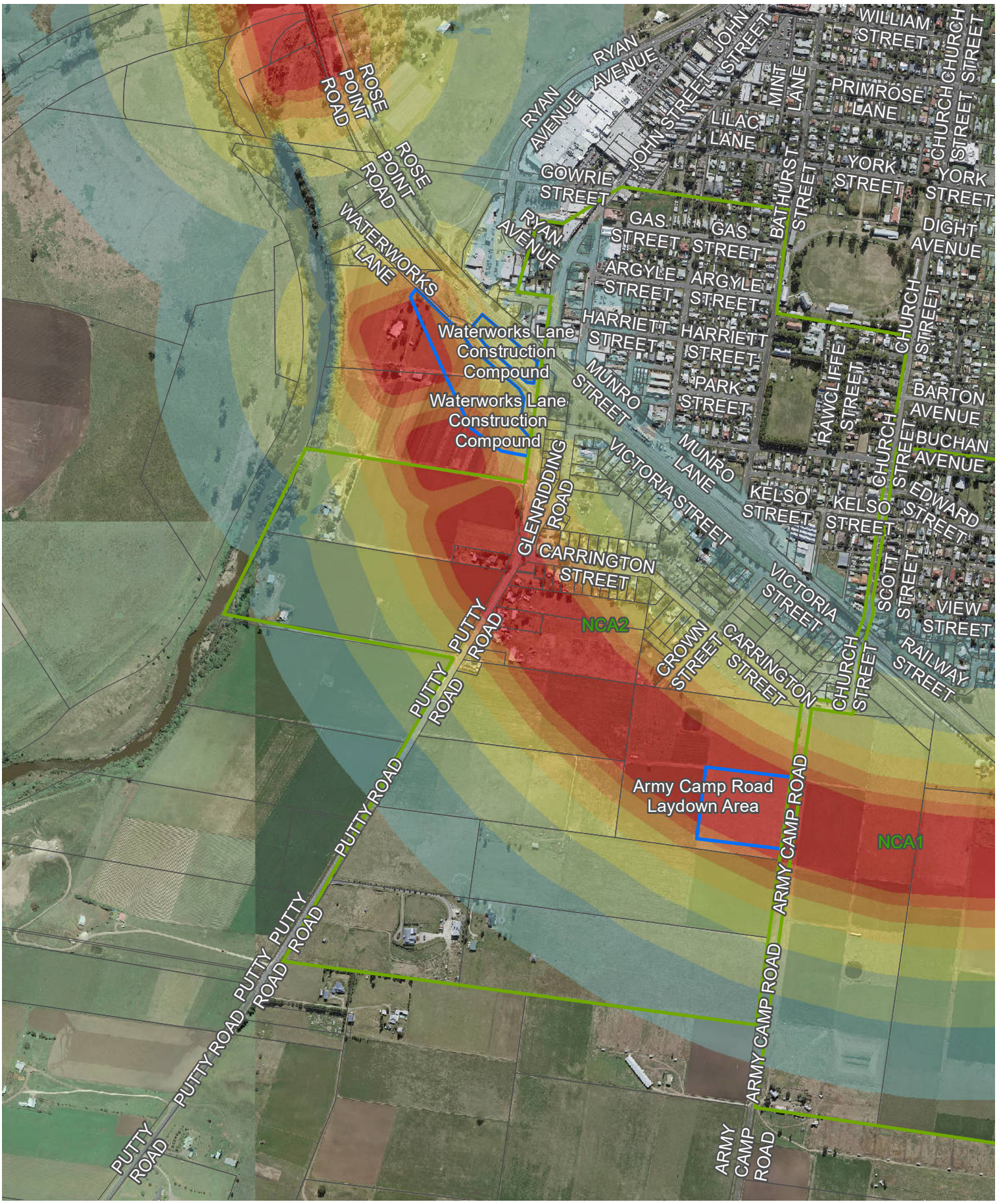
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Singleton Bypass - Sleep Disturbance Noise Contours
Bridge construction - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

< 55	55 - 59	60 - 64	64 - 69	69 - 74	74 - 79	79 - 84	> 85

Noise Catchment Area
Compounds



AECOM

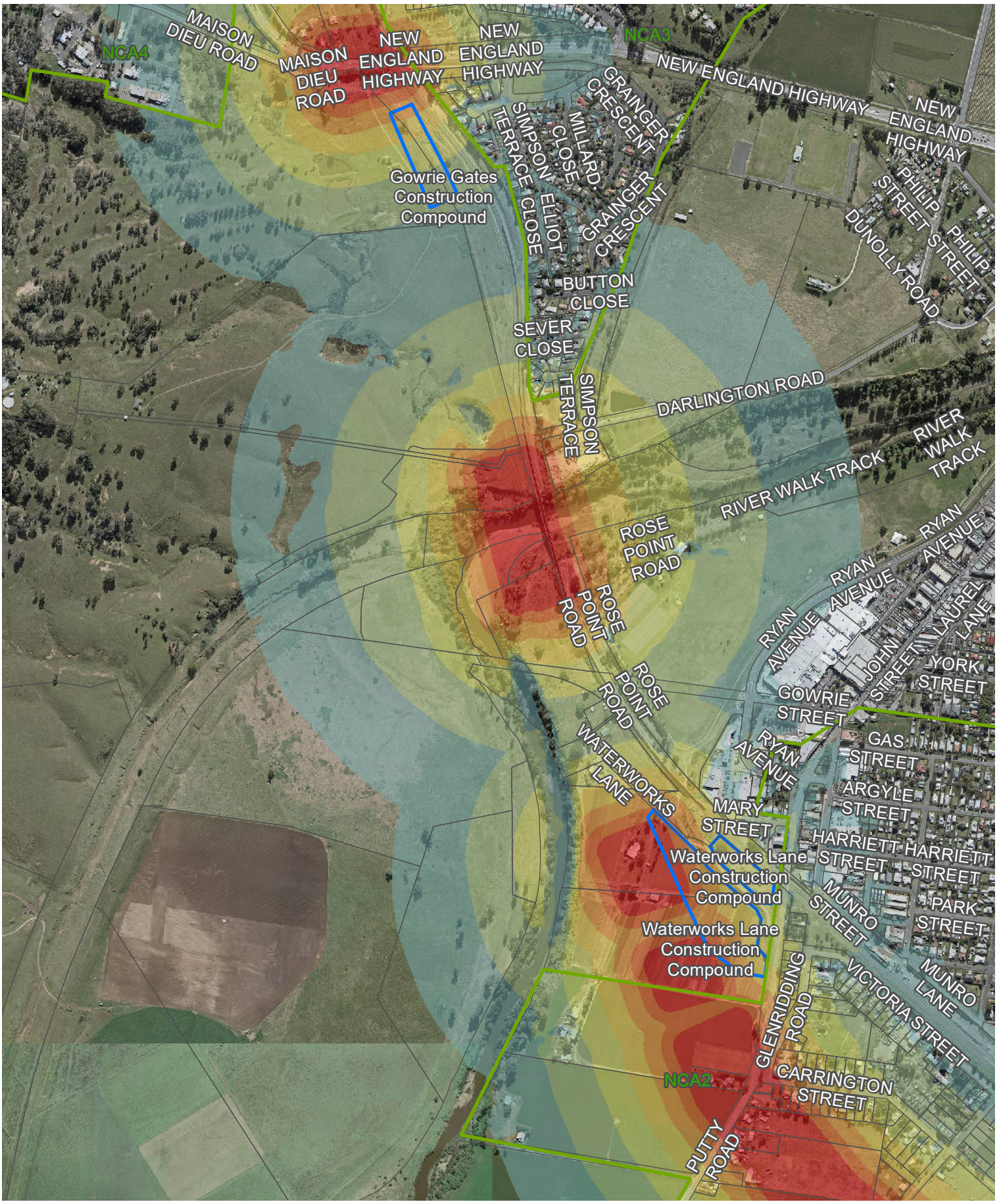
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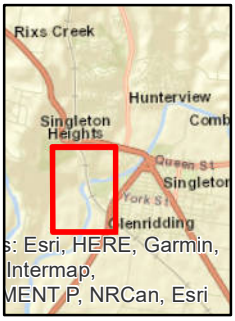


Singleton Bypass - Sleep Disturbance Noise Contours
Bridge construction - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

<55 | 55 - 59 | 60 - 64 | 64 - 69 | 69 - 74 | 74 - 79 | 79 - 84 | >85

Noise Catchment Area
Compounds



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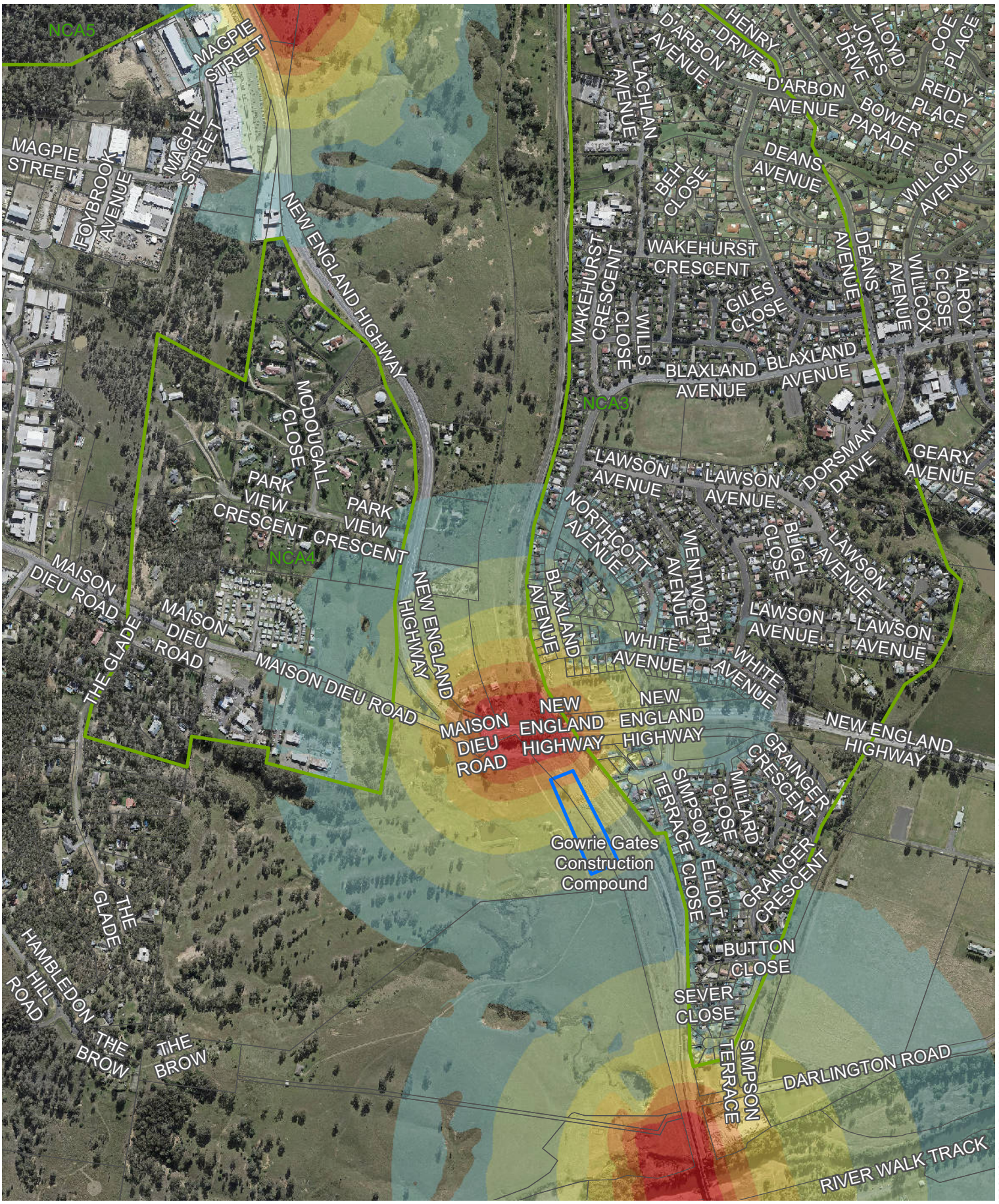
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Bridge construction - Outside Standard Hours

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< 55	55 - 59	60 - 64	64 - 69	69 - 74	74 - 79	79 - 84	> 85

Noise Catchment Area
Compounds



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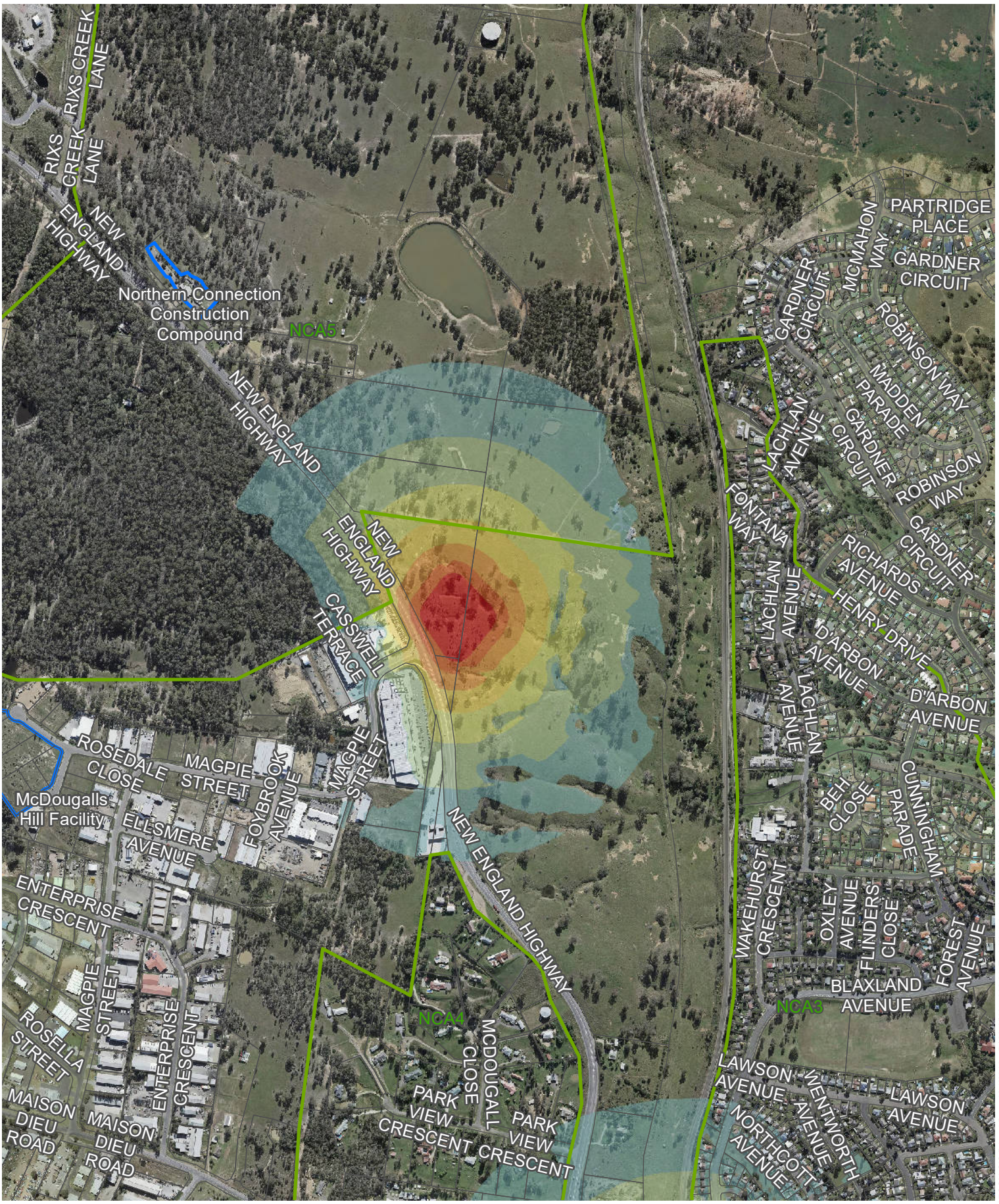
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79 - 84
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Noise Catchment Area
Compounds



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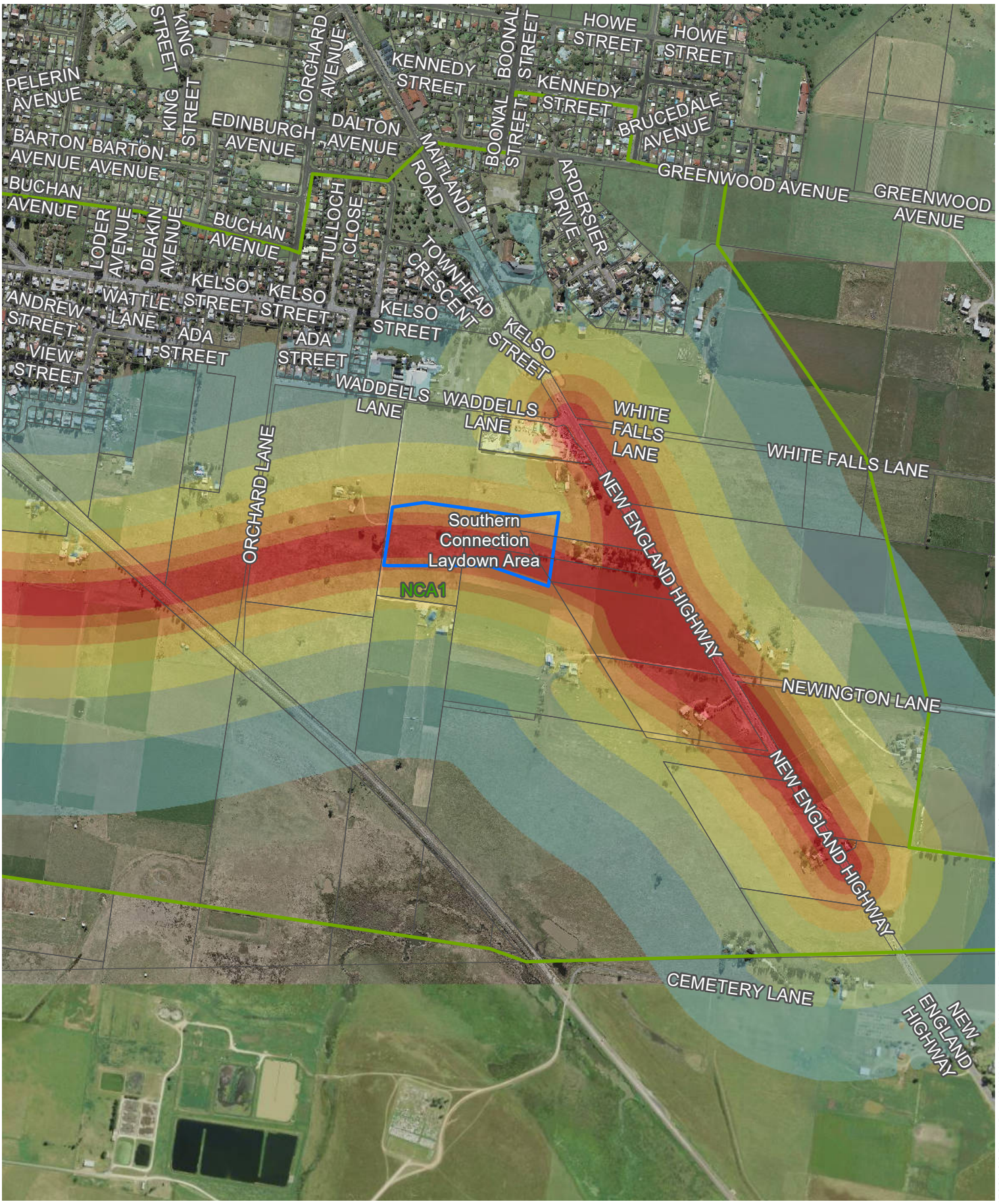
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Singleton Bypass - Sleep Disturbance Noise Contours
Pavement Works - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

<55 | 55 - 59 | 60 - 64 | 64 - 69 | 69 - 74 | 74 - 79 | 79 - 84 | >85

Noise Catchment Area
Compounds



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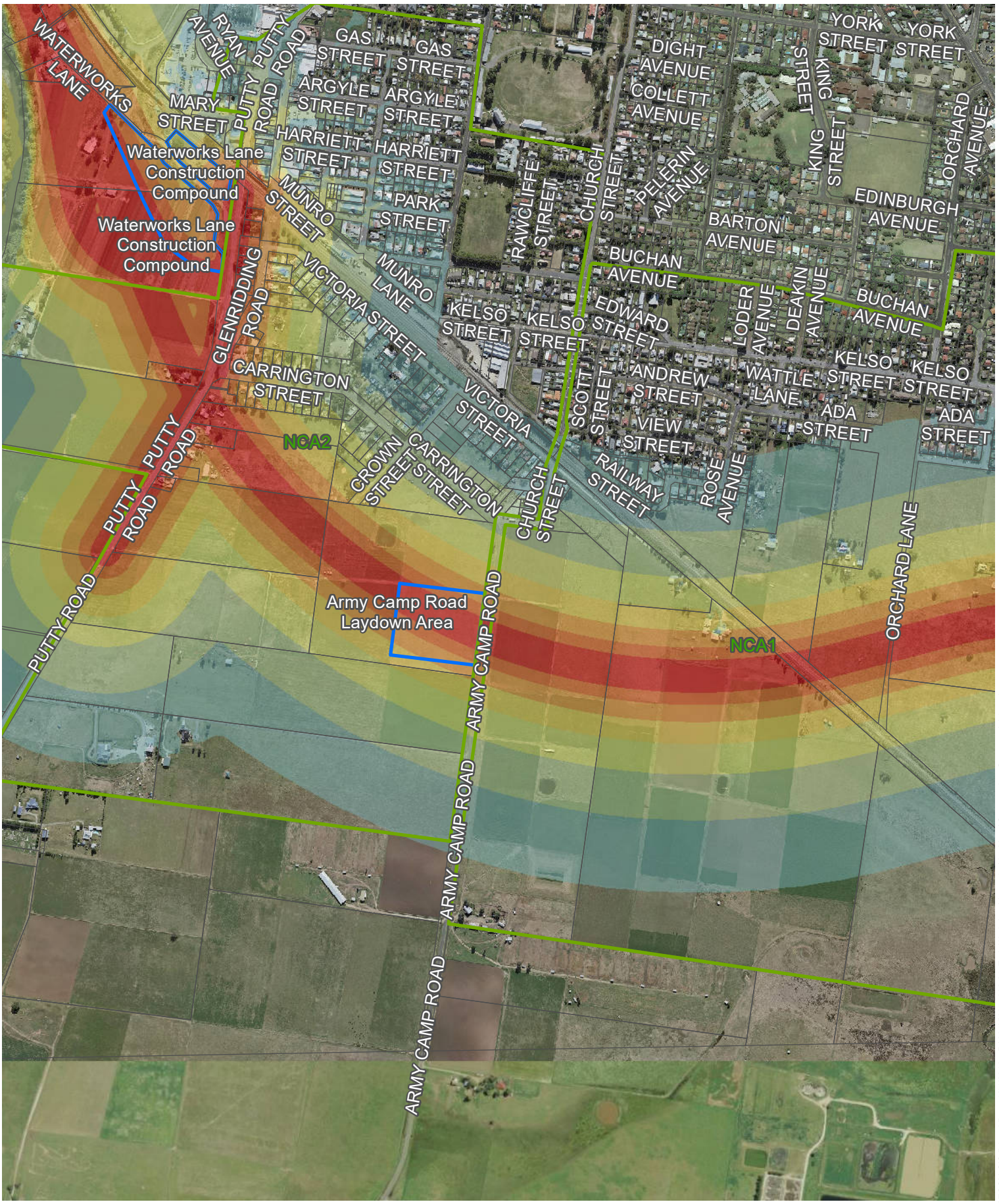
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Noise Catchment Area
Compounds



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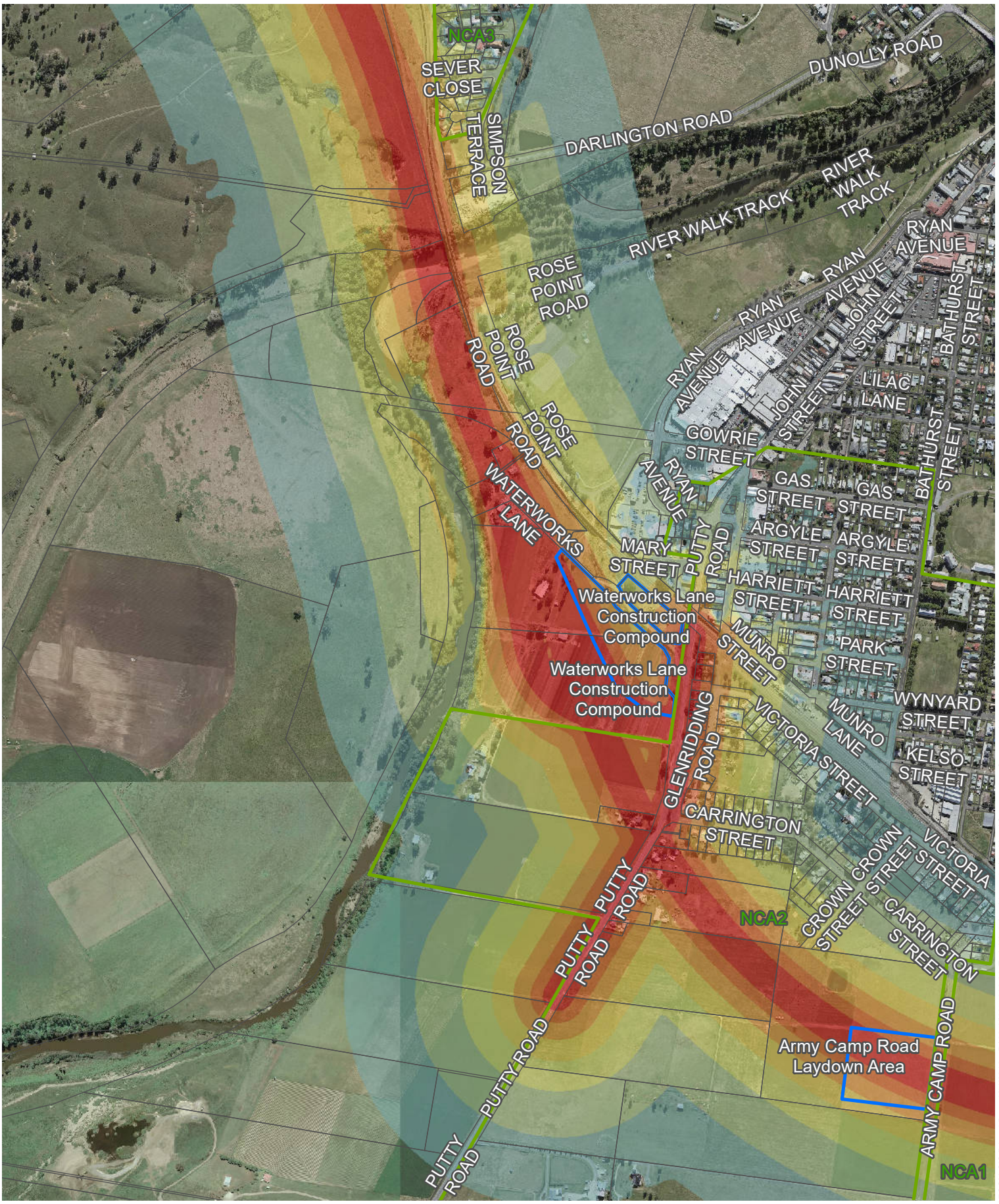
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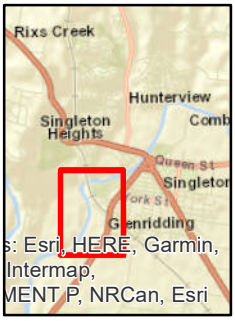


Singleton Bypass - Sleep Disturbance Noise Contours
Pavement Works - Outside Standard Hours

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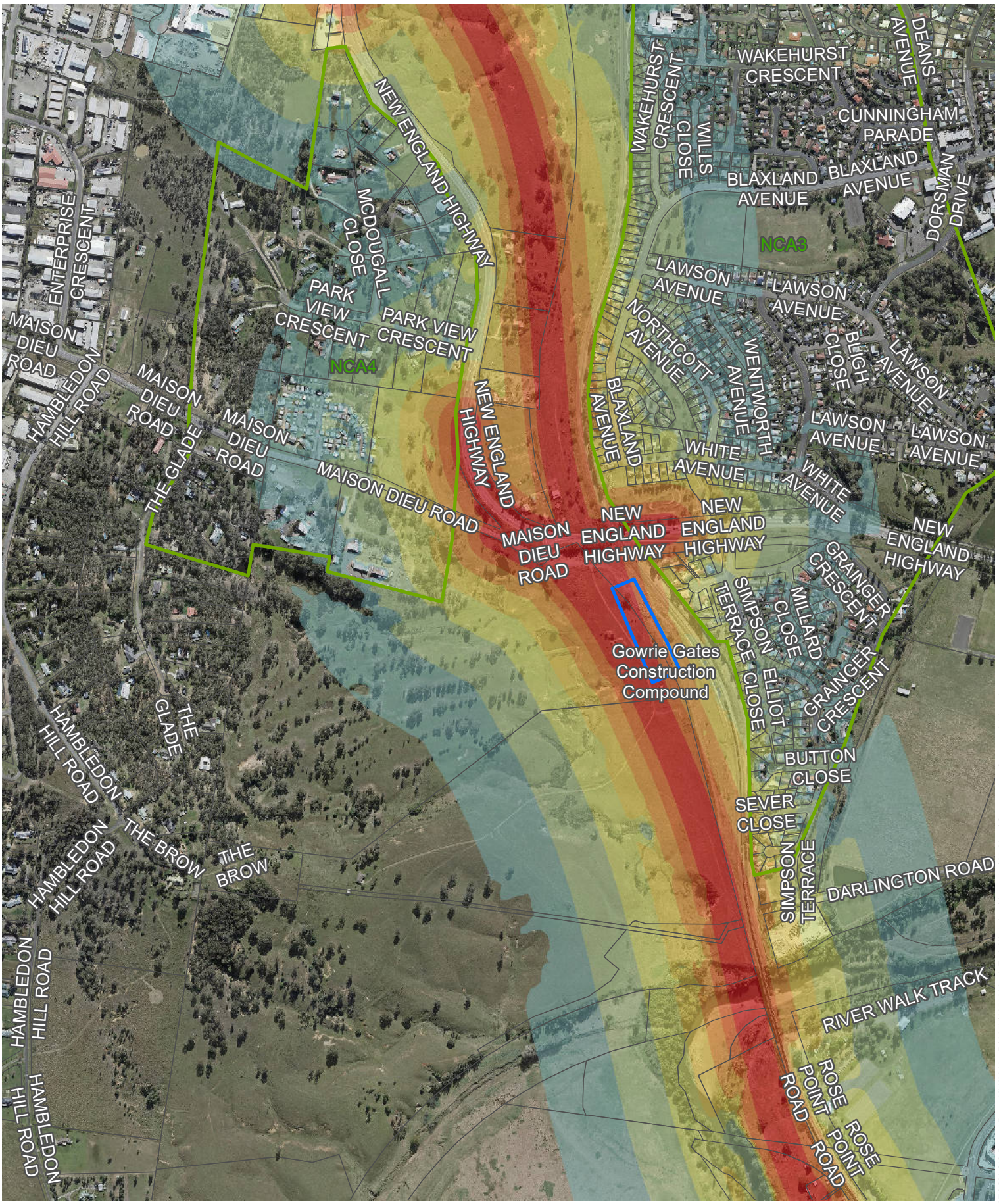
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Pavement Works - Outside Standard Hours

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Noise Catchment Area
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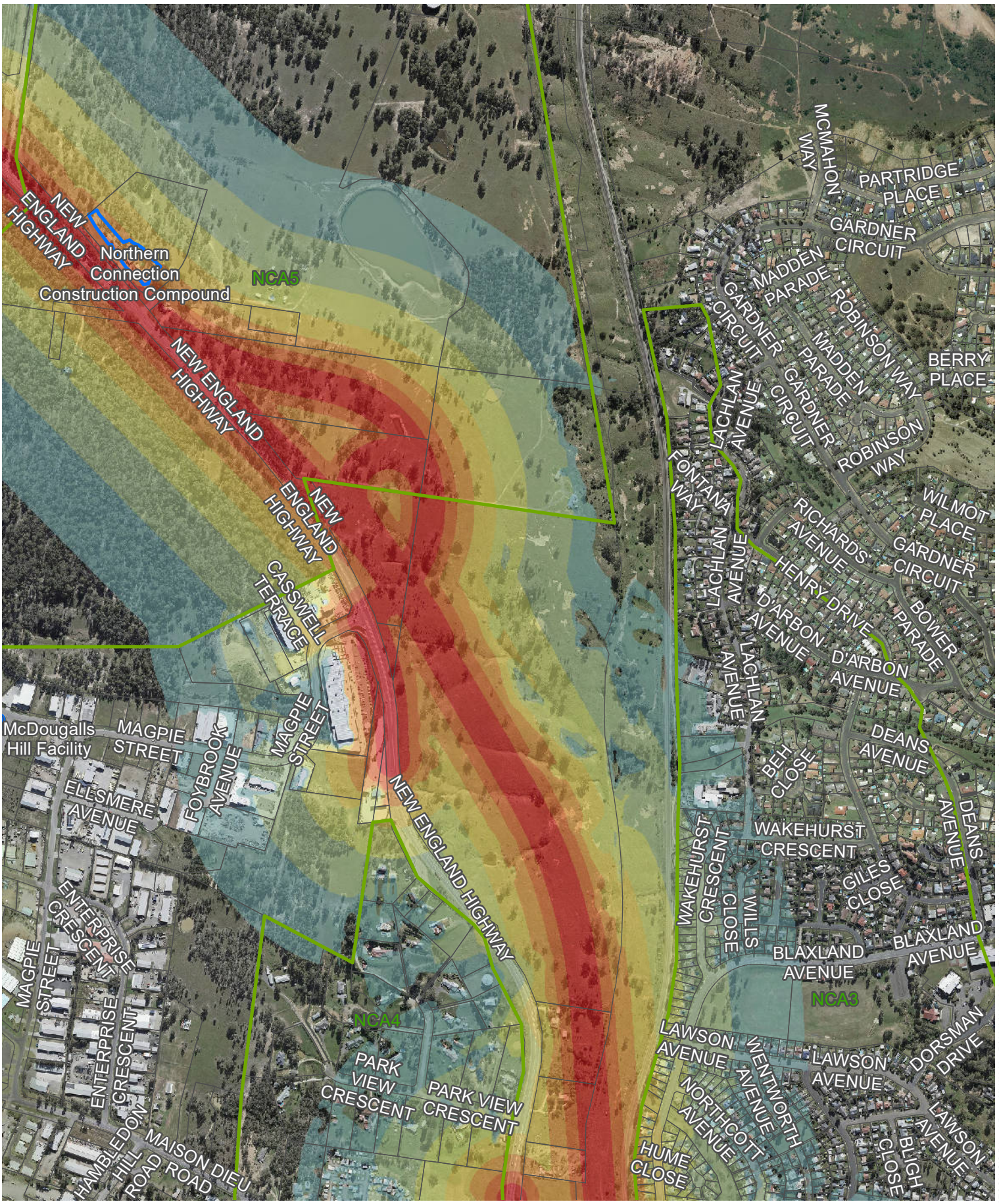
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Noise Catchment Area
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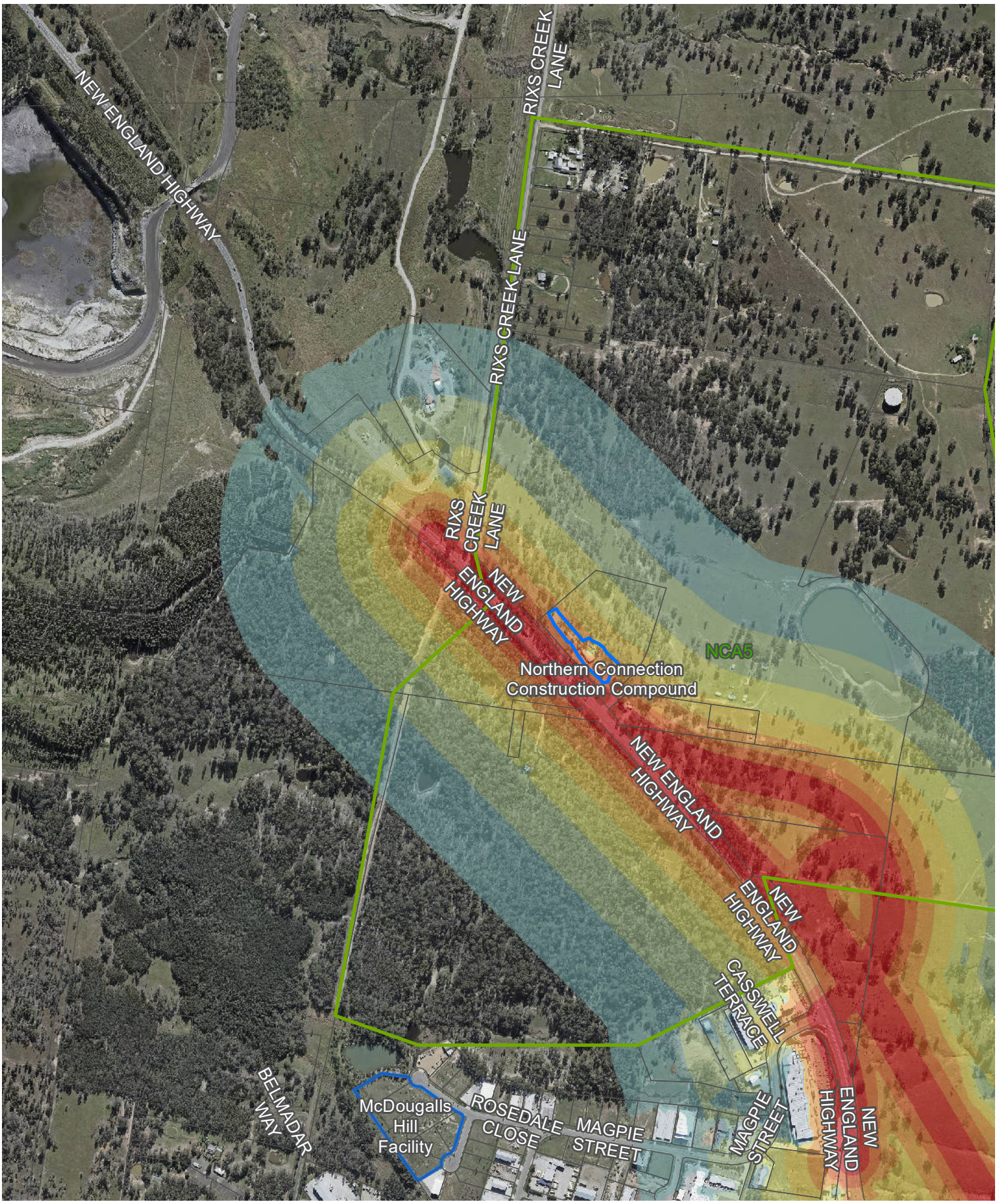
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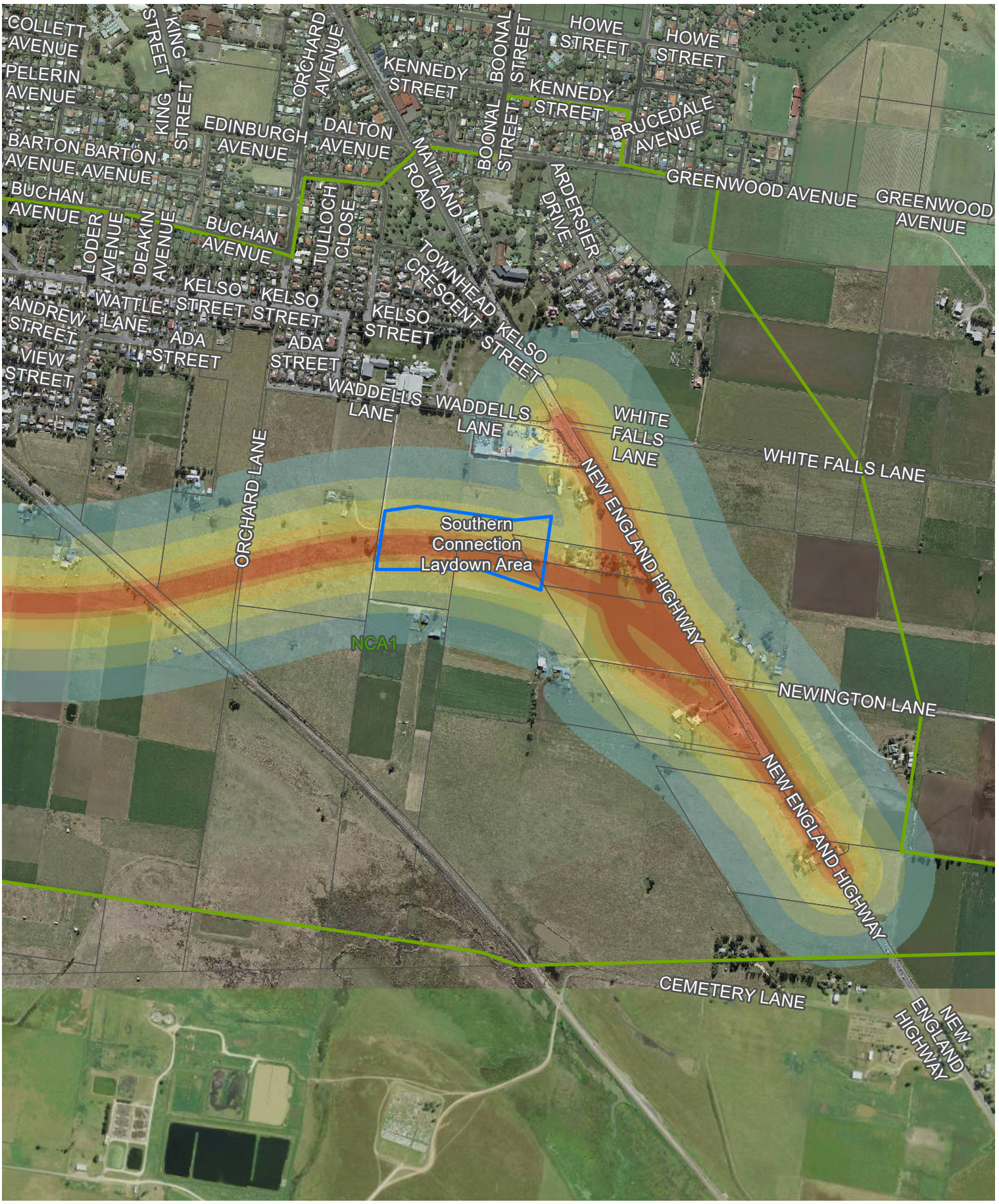
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Singleton Bypass - Sleep Disturbance Noise Contours
Finishing Works - Outside Standard Hours

Sound Pressure Level, L_{A1} dB(A)

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Noise Catchment Area
Compounds



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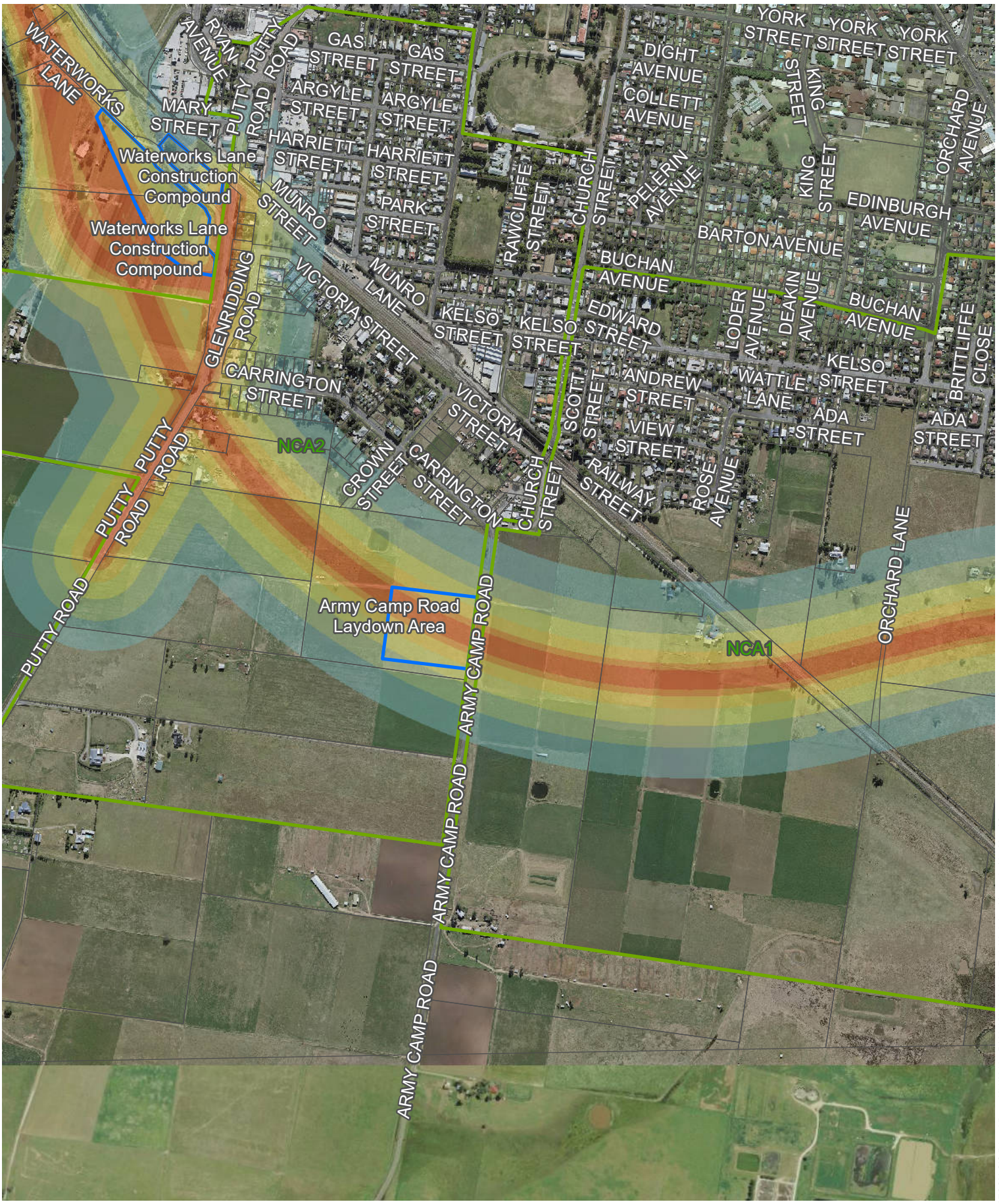
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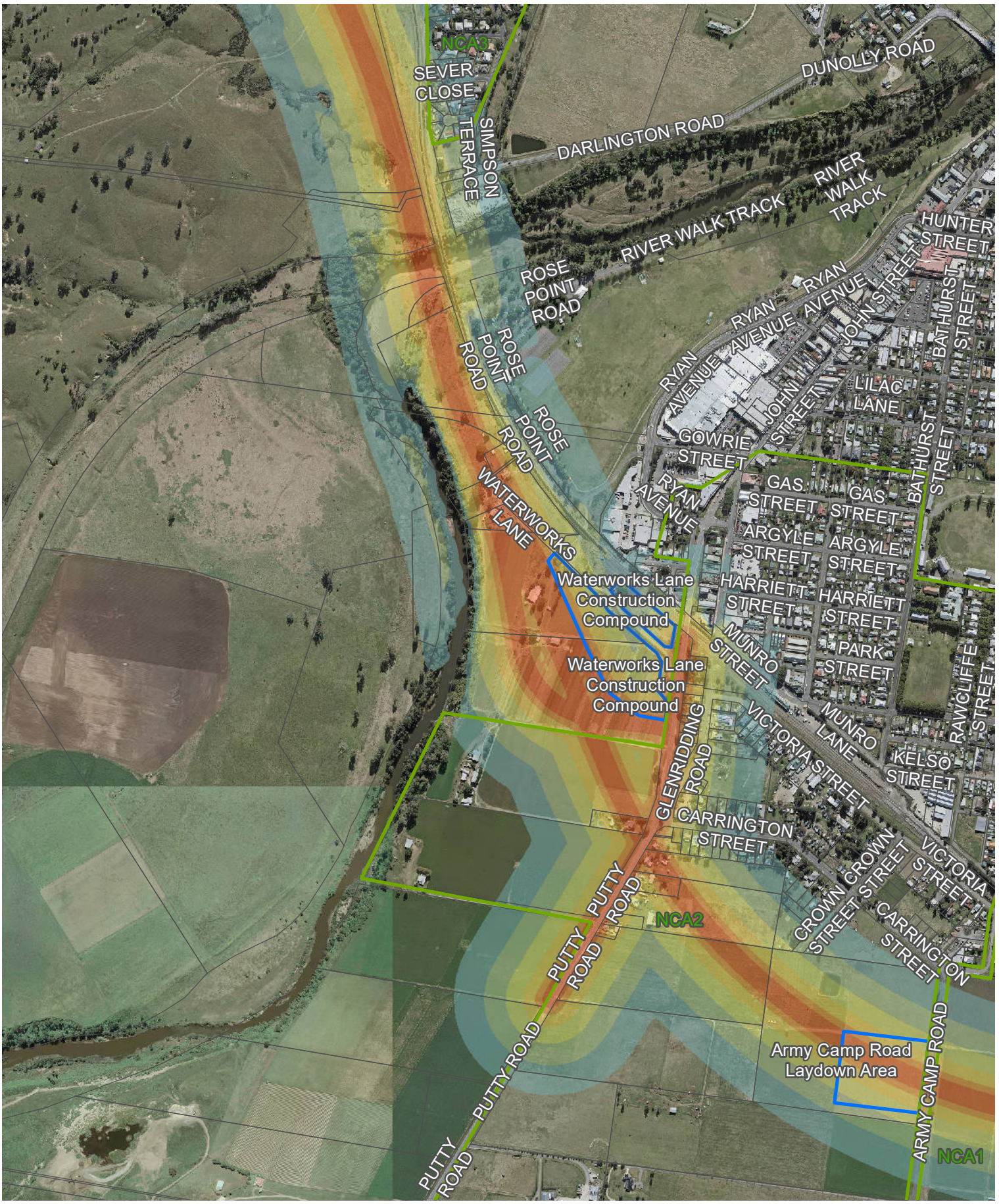
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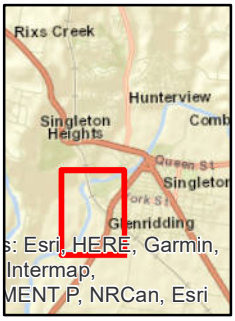


Singleton Bypass - Sleep Disturbance Noise Contours
Finishing Works - Outside Standard Hours

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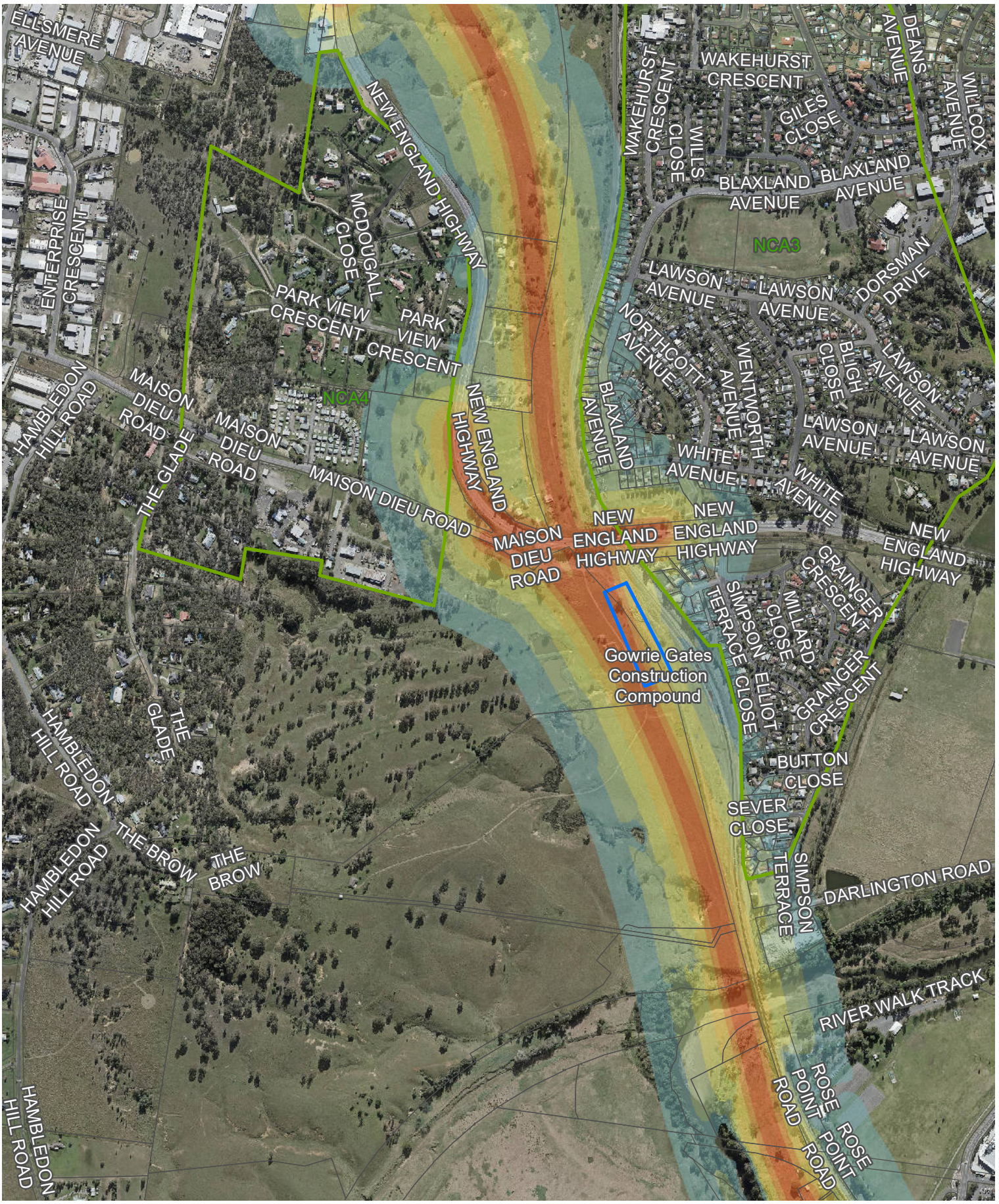
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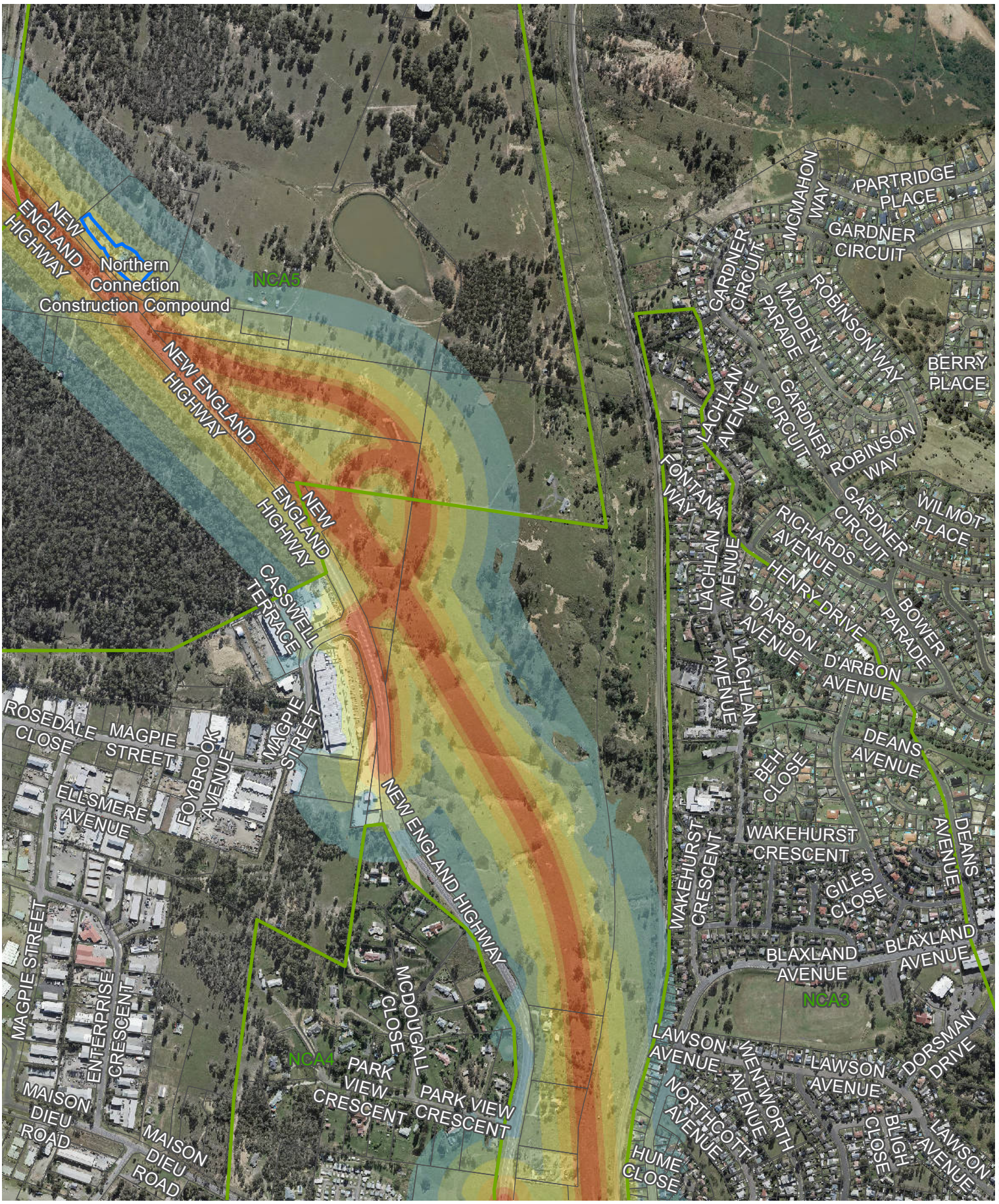
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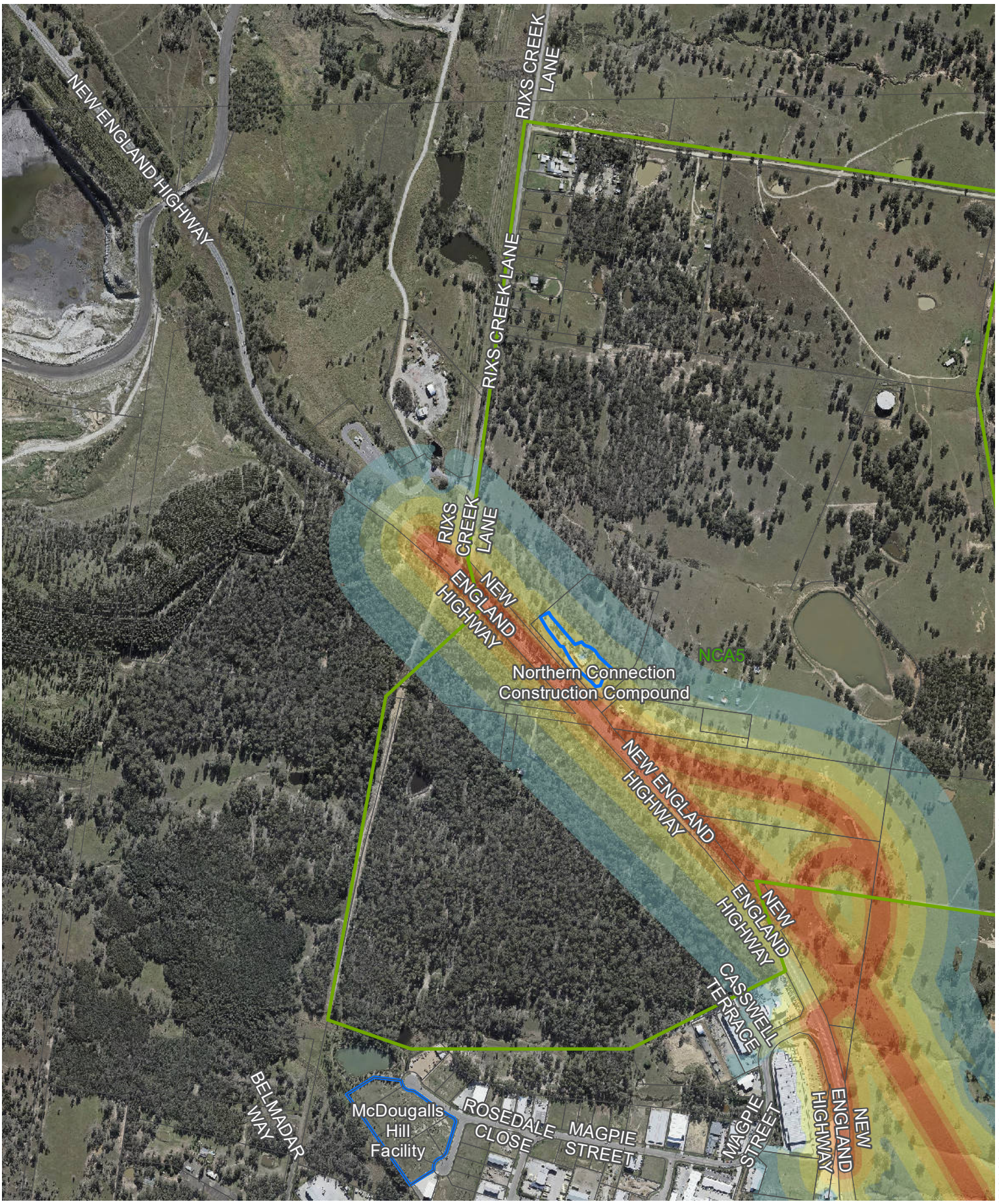
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Noise Catchment Area
Compounds



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Appendix D

Road Traffic Volumes

Appendix D Road Traffic Volumes

Existing Traffic Flows 2018

Location	Direction	Day:	7:00 –	22:00	Night:	22:00 –	7:00
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
New England Highway	NB	4,201	78	14%	1,971	79	11%
North of Rixs Creek Lane	SB	5,572	74	13%	559	75	22%
New England Highway	NB	6,830	64	10%	1,813	66	11%
South of Waddells Road	SB	7,966	69	9%	858	73	15%
New England Highway	NB	6,844	85	10%	1,853	88	12%
South of Haggartys Lane	SB	7,980	87	10%	832	92	17%
New England Highway	NB	10,032	54	11%	1,185	61	15%
West of Hunter River	SB	9,390	56	9%	2,111	56	11%
Maison Dieu Road	NB	1,842	59	9%	208	62	7%
West of New England Highway	SB	1,470	62	10%	532	63	7%
Putty Road	NB	6,966	85	10%	1,913	88	12%
South of Carrington Street	SB	8,095	88	10%	837	93	18%

Design Traffic Flows - Year of Opening

Location	Direction	Day:	7:00 –	22:00	Night:	22:00 –	7:00
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
Main Alignment	NB	4617	100	15%	976	100	18%
South Putty Road Ramps	SB	4617	100	15%	976	100	18%
Main Alignment	NB	7074	100	13%	1453	100	16%
South Gowrie Gates Ramps	SB	7074	100	13%	1453	100	16%
Main Alignment	NB	4576	100	16%	842	100	19%
South Magpie Street Ramps	SB	4576	100	16%	842	100	19%
Putty Road Ramps	NB	2457	60	9%	475	60	12%
	SB	2457	60	9%	475	60	12%

Location	Direction	Day: 7:00 – 22:00			Night: 22:00 – 7:00		
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
Gowrie Gates Ramps	NB	2501	60	7%	626	60	10%
	SB	2501	60	7%	626	60	10%
Magpie Street Ramps	NB	1787	60	17%	280	60	20%
	SB	1787	60	17%	280	60	20%
New England Highway	NB	6468	80	15%	1238	80	18%
North of Rixs Creek Lane	SB	6468	80	15%	1238	80	18%
New England Highway	NB	4140	60	10%	718	60	13%
South of Waddells Road	SB	4140	60	10%	718	60	13%
New England Highway	NB	8413	100	13%	1634	100	16%
South of Haggartys Lane	SB	8413	100	13%	1634	100	16%
New England Highway	NB	4643	60	10%	796	60	13%
West of Hunter River	SB	4643	60	10%	796	60	13%
Maison Dieu Road	NB	2280	60	8%	148	60	8%
West of New England Highway	SB	2280	60	8%	148	60	8%
Putty Road	NB	2837	60	2%	704	60	2%
South of Carrington Street	SB	2837	60	2%	704	60	2%

Design Traffic Flows – Design Year

Location	Direction	Day: 7:00 – 22:00			Night: 22:00 – 7:00		
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
Main Alignment	NB	5252	100	16%	1106	100	19%
South Putty Road Ramps	SB	5252	100	16%	1106	100	19%
Main Alignment	NB	7884	100	14%	1623	100	17%
South Gowrie Gates Ramps	SB	7884	100	14%	1623	100	17%
Main Alignment	NB	5222	100	16%	960	100	19%
South Magpie Street Ramps	SB	5222	100	16%	960	100	19%

Location	Direction	Day: 7:00 – 22:00			Night: 22:00 – 7:00		
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
Putty Road Ramps	NB	2649	60	9%	515	60	12%
	SB	2649	60	9%	515	60	12%
Gowrie Gates Ramps	NB	2729	60	8%	690	60	11%
	SB	2729	60	8%	690	60	11%
Magpie Street Ramps	NB	2037	60	17%	316	60	20%
	SB	2037	60	17%	316	60	20%
New England Highway North of Rixs Creek Lane	NB	7451	80	15%	1427	80	18%
	SB	7451	80	15%	1427	80	18%
New England Highway South of Waddells Road	NB	4778	60	10%	822	60	13%
	SB	4778	60	10%	822	60	13%
New England Highway South of Haggartys Lane	NB	9721	100	13%	1882	100	16%
	SB	9721	100	13%	1882	100	16%
New England Highway West of Hunter River	NB	5159	60	10%	883	60	13%
	SB	5159	60	10%	883	60	13%
Maison Dieu Road West of New England Highway	NB	2402	60	9%	151	60	9%
	SB	2402	60	9%	151	60	9%
Putty Road South of Carrington Street	NB	3058	60	2%	758	60	2%
	SB	3058	60	2%	758	60	2%

'Do Minimum' Traffic Flows - Year of Opening

Location	Direction	Day: 7:00 – 22:00			Night: 22:00 – 7:00		
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
New England Highway North of Rixs Creek Lane	NB	5659	80	12%	2909	80	12%
	SB	9859	80	12%	1080	80	12%
New England Highway South of Waddells Road	NB	9814	60	10%	3037	60	10%
	SB	12655	60	10%	1499	60	10%

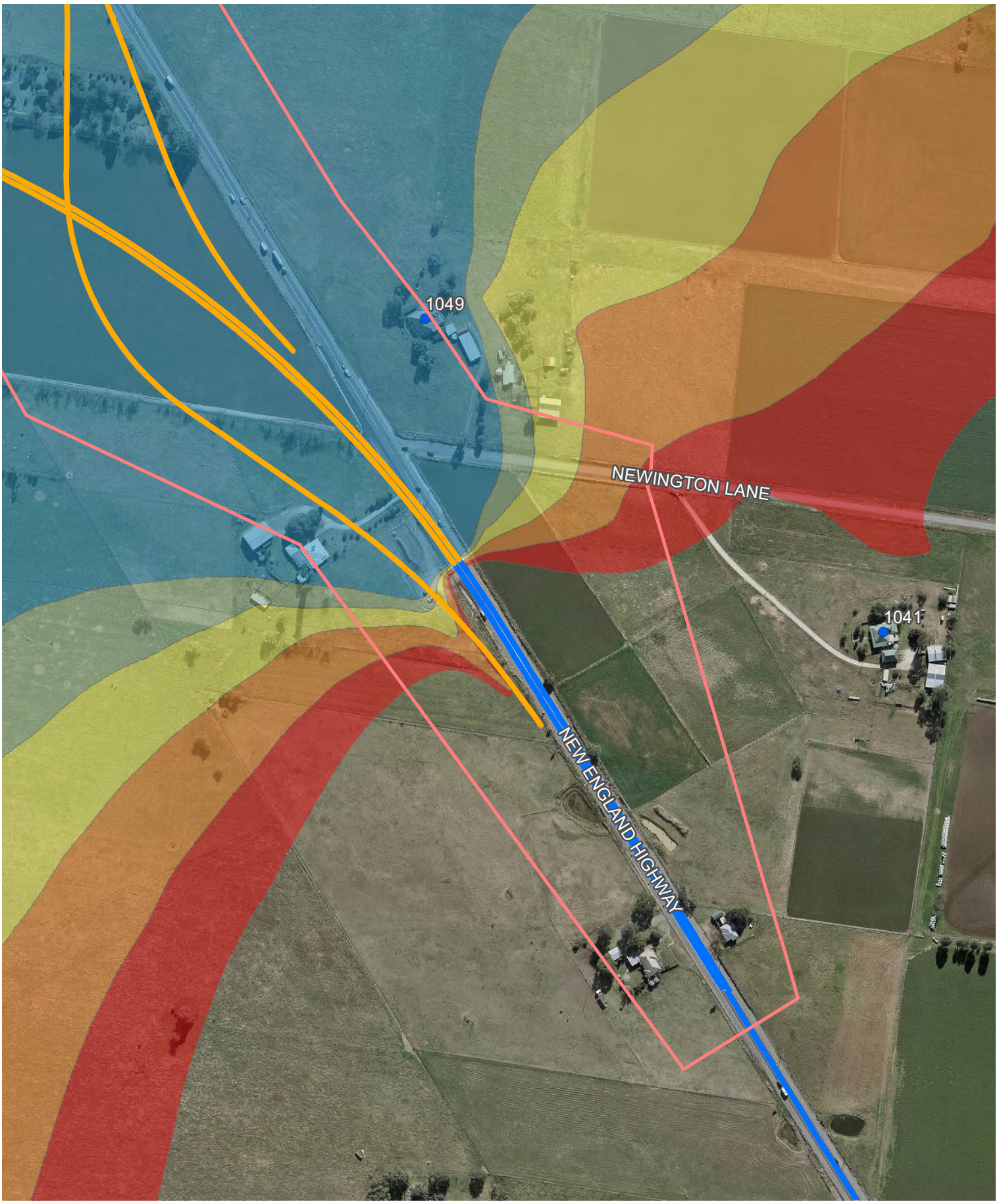
Location	Direction	Day: 7:00 – 22:00			Night: 22:00 – 7:00		
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
New England Highway	NB	9560	100	10%	2958	100	10%
South of Haggartys Lane	SB	12243	100	9%	1450	100	9%
New England Highway	NB	12366	60	10%	1585	60	10%
West of Hunter River	SB	10459	60	11%	2583	60	11%
Maison Dieu Road	NB	3473	60	8%	305	60	8%
West of New England Highway	SB	1211	60	11%	321	60	11%
Putty Road	NB	2455	60	5%	758	60	5%
South of Carrington Street	SB	4395	60	7%	523	60	7%

'Do Minimum' Traffic Flows – Design Year

Location	Direction	Day: 7:00 – 22:00			Night: 22:00 – 7:00		
		Design Traffic Volume	Design Vehicle Speed, km/h	Design Heavy Vehicle Percentage	Design Traffic Volume.	Design Vehicle. Speed, km/h	Design Heavy Vehicle Percentage
New England Highway	NB	5003	80	12%	2572	80	12%
North of Rixs Creek Lane	SB	8532	80	11%	939	80	11%
New England Highway	NB	8632	60	10%	2667	60	10%
South of Waddells Road	SB	11139	60	10%	1321	60	10%
New England Highway	NB	8383	100	9%	2589	100	9%
South of Haggartys Lane	SB	10734	100	9%	1271	100	9%
New England Highway	NB	11108	60	10%	1420	60	10%
West of Hunter River	SB	9832	60	11%	2424	60	11%
Maison Dieu Road	NB	3238	60	7%	287	60	7%
West of New England Highway	SB	1497	60	10%	406	60	10%
Putty Road	NB	2326	60	5%	722	60	5%
South of Carrington Street	SB	4312	60	7%	513	60	7%

Appendix E

Transition Zone Noise Contours



Singleton Bypass - Transition Zone Contours - Design Year - Daytime

Proposal Area
New Road
Redeveloped Road

Daytime Criteria, dB(A)

59 58 57 56 55



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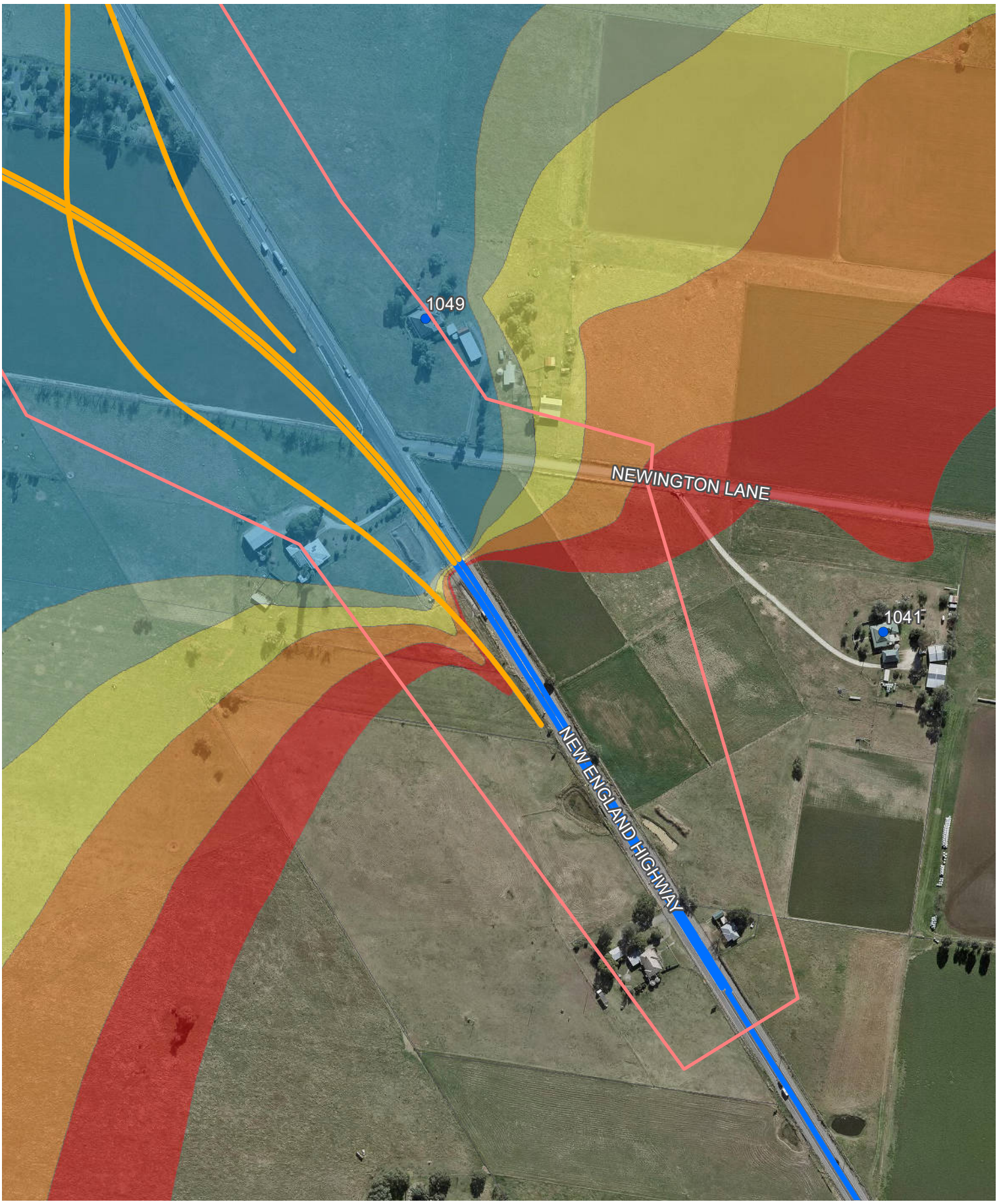
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Singleton Bypass - Transition Zone Contours - Design Year - Night-time

Proposal Area
New Road
Redeveloped Road

Night time Criteria, dB(A)

54 53 52 51 50



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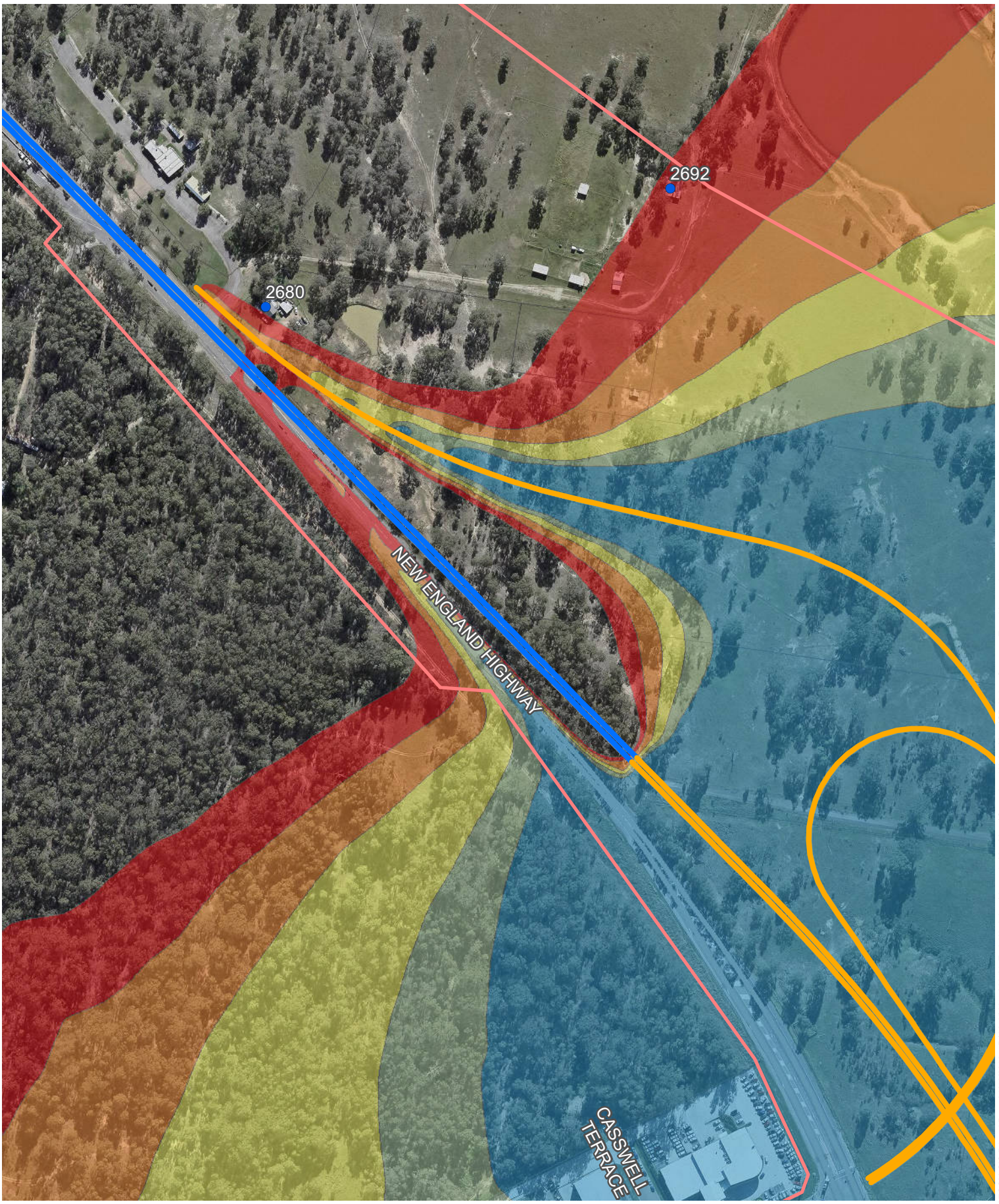
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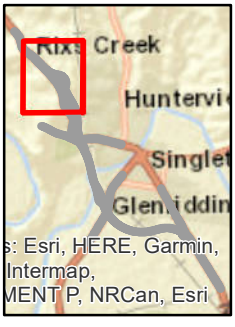


Singleton Bypass - Transition Zone Contours - Design Year - Daytime

Proposal Area
New Road
Redeveloped Road

Daytime Criteria, dB(A)

59 58 57 56 55



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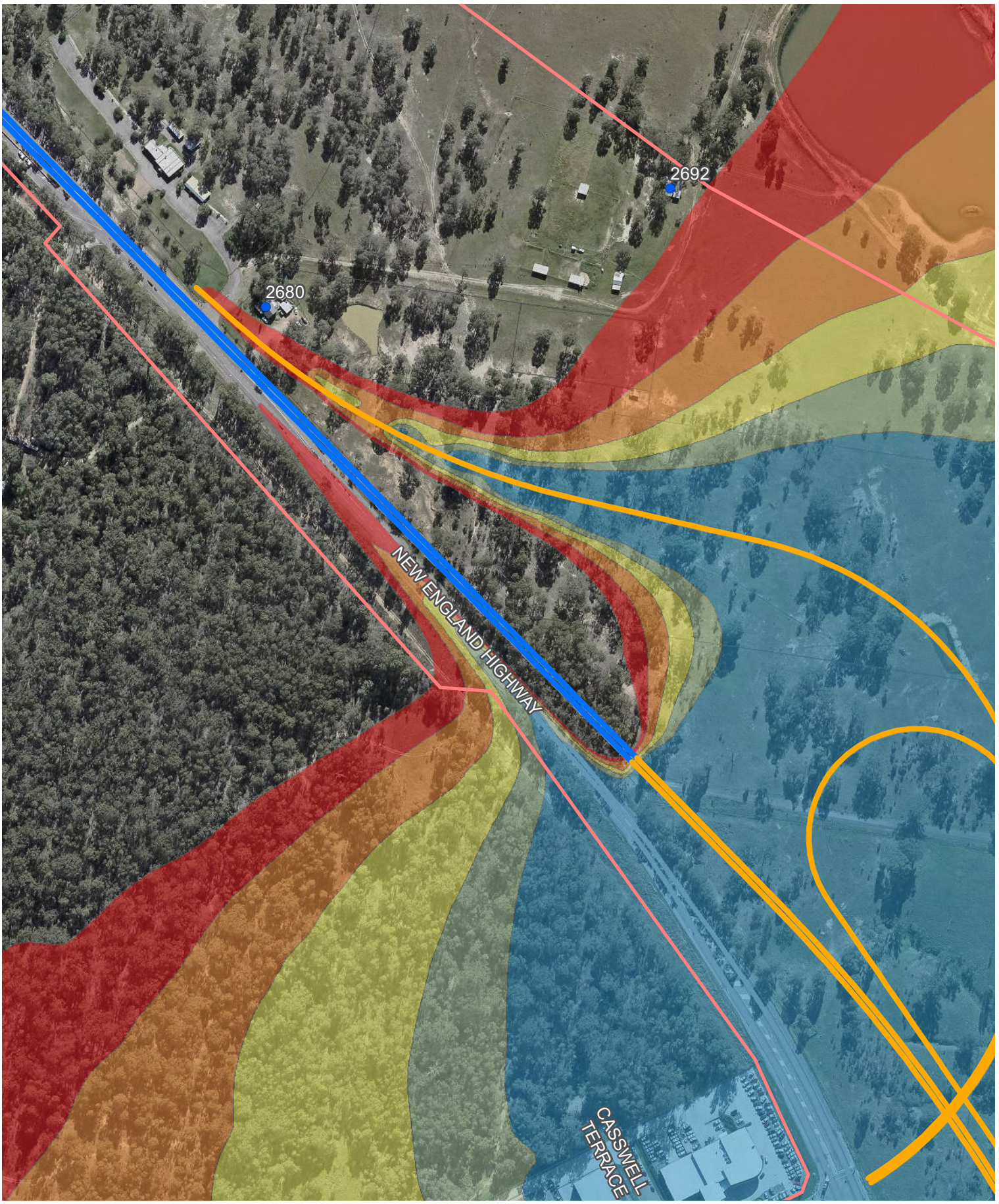
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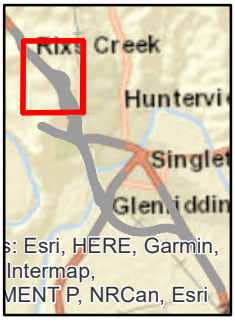


Singleton Bypass - Transition Zone Contours - Design Year - Night-time

Proposal Area
New Road
Redeveloped Road

Night time Criteria, dB(A)

54 53 52 51 50



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Appendix F

Traffic Noise Levels

Appendix F Traffic Noise Levels

Year of Opening - No Noise Barrier

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1013	53 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	51.2	48.7	51.4	49.6	0.2	0.9	No	No	No	No
1015	61 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	50.0	47.6	50.3	48.4	0.3	0.8	No	No	No	No
1020	4245 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	61.2	58.8	61.2	59.3	0.0	0.5	No	No	No	No
1023	4244 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	68.5	66.0	68.6	66.7	0.1	0.7	No	No	No	No
1027	18 CEMETERY LANE WHITTINGHAM	Residential	60	55	59.7	57.3	59.8	57.9	0.1	0.6	No	No	No	No
1028	28 CEMETERY LANE WHITTINGHAM	Residential	60	55	56.6	54.2	56.6	54.8	0.0	0.6	No	No	No	No
1029	13 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	57.9	55.5	57.6	55.7	-0.3	0.2	No	No	No	No
1031	4253 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	74.4	72.0	74.5	72.6	0.1	0.6	No	No	No	No
1032	4 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	69.0	66.5	69.1	67.2	0.1	0.7	No	No	No	No
1041	18 NEWINGTON LANE WHITTINGHAM	Residential	60	55	57.8	55.4	57.9	56.0	0.1	0.6	Yes	No	No	No
1049	3 NEWINGTON LANE WHITTINGHAM	Residential	55	50	65.3	62.9	63.3	61.5	-2.0	-1.4	Yes	Yes	No	Yes
1051	4339 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	55	50	55.4	53.0	57.3	55.6	1.9	2.6	Yes	Yes	No	Yes
1055	48 MAITLAND ROAD SINGLETON	Residential	55	50	53.3	50.9	51.7	49.9	-1.6	-1.0	No	No	No	No
1060	8 THE GLADE GOWRIE	Residential	55	50	48.9	45.2	50.1	47.4	1.2	2.2	No	No	No	No
1070	6 THE GLADE GOWRIE	Residential	55	50	50.4	46.9	51.3	48.4	0.9	1.5	No	No	No	No
1073	18 ARDERSIER DRIVE SINGLETON	Residential	55	50	48.8	46.4	46.8	44.9	-2.0	-1.5	No	No	No	No
1075	19 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.9	50.5	51.7	49.9	-1.2	-0.6	No	No	No	No
1077	17 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.2	44.8	45.7	43.8	-1.5	-1.0	No	No	No	No
1078	4 THE GLADE GOWRIE	Residential	55	50	53.0	49.4	53.1	49.5	0.1	0.1	No	No	No	No
1081	20 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.0	50.6	51.8	50.0	-1.2	-0.6	No	No	No	No
1083	4403 NEW ENGLAND HIGHWAY SINGLETON	Residential	55	50	68.2	65.8	61.6	59.5	-6.6	-6.3	Yes	Yes	No	Yes
1085	16 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.3	44.9	45.7	43.8	-1.6	-1.1	No	No	No	No
1087	21 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.8	51.4	52.4	50.5	-1.4	-0.9	Yes	No	No	No
1089	15 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.2	43.8	45.0	43.1	-1.2	-0.7	No	No	No	No
1091	14 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.4	43.0	44.5	42.7	-0.9	-0.3	No	No	No	No
1093	22 ARDERSIER DRIVE SINGLETON	Residential	55	50	54.7	52.3	53.0	51.2	-1.7	-1.1	Yes	No	No	No
1095	11 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.3	42.9	44.0	42.1	-1.3	-0.8	No	No	No	No
1099	23 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.3	52.9	53.6	51.7	-1.7	-1.2	Yes	No	No	No
1101	13 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.7	44.3	45.4	43.6	-1.3	-0.7	No	No	No	No
1103	9 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.0	42.6	43.7	41.8	-1.3	-0.8	No	No	No	No
1106	2 THE GLADE GOWRIE	Residential	55	50	60.6	57.0	60.1	53.7	-0.5	-3.3	No	No	No	No
1107	12 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.4	44.0	45.4	43.5	-1.0	-0.5	No	No	No	No
1109	24 ARDERSIER DRIVE SINGLETON	Residential	55	50	54.9	52.5	52.9	51.0	-2.0	-1.5	Yes	No	No	No
1111	8 ARDERSIER DRIVE SINGLETON	Residential	55	50	44.5	42.1	43.6	41.7	-0.9	-0.4	No	No	No	No
1113	10 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.0	43.5	44.3	42.4	-1.7	-1.1	No	No	No	No
1115	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	44.3	41.9	43.0	41.1	-1.3	-0.8	No	No	No	No
1117	25 ARDERSIER DRIVE SINGLETON	Residential	55	50	57.0	54.6	54.9	53.0	-2.1	-1.6	Yes	No	No	No
1119	7 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.4	45.5	43.6	-1.3	-0.8	No	No	No	No
1121	26 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.2	47.8	48.7	46.8	-1.5	-1.0	No	No	No	No
1123	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.0	42.6	43.9	42.0	-1.1	-0.6	No	No	No	No
1125	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.0	42.6	43.8	41.9	-1.2	-0.7	No	No	No	No
1129	6 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.9	44.5	46.7	44.9	-0.2	0.4	No	No	No	No
1131	27 ARDERSIER DRIVE SINGLETON	Residential	55	50	48.4	46.0	47.1	45.2	-1.3	-0.8	No	No	No	No
1133	28 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.3	46.9	47.3	45.4	-2.0	-1.5	No	No	No	No
1135	2 GASLIGHT PLACE SINGLETON	Residential	55	50	55.7	53.3	53.4	51.5	-2.3	-1.8	Yes	No	No	No
1137	5 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.3	45.6	43.7	-1.2	-0.6	No	No	No	No
1139	28 GREENWOOD AVENUE SINGLETON	Residential	55	50	46.7	44.3	45.9	44.0	-0.8	-0.3	No	No	No	No
1141	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.5	43.1	43.5	41.5	-2.0	-1.6	No	No	No	No
1147	24 GREENWOOD AVENUE SINGLETON	Residential	55	50	44.6	42.2	43.9	42.1	-0.7	-0.1	No	No	No	No
1149	7 GASLIGHT PLACE SINGLETON	Residential	55	50	47.8	45.4	48.2	46.4	0.4	1.0	No	No	No	No
1151	3 GASLIGHT PLACE SINGLETON	Residential	55	50	54.3	51.9	52.2	50.3	-2.1	-1.6	No	No	No	No
1155	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.2	43.8	45.0	43.1	-1.2	-0.7	No	No	No	No
1159	22 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.2	44.8	46.1	44.3	-1.1	-0.5	No	No	No	No
1161	6 GASLIGHT PLACE SINGLETON	Residential	55	50	50.3	47.9	49.0	47.1	-1.3	-0.8	No	No	No	No
1163	2 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.0	44.6	45.7	43.8	-1.3	-0.8	No	No	No	No
1165	48 MAITLAND ROAD SINGLETON	Residential	55	50	60.0	57.6	57.2	55.1	-2.8	-2.5	Yes	Yes	No	Yes
1167	1 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.0	44.6	45.2	43.2	-1.8	-1.4	No	No	No	No
1168	68 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	58.3	54.7	58.2	52.1	-0.1	-2.6	No	No	No	No
1169	30 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.8	48.4	49.7	47.9	-1.1	-0.5	No	No	No	No
1171	20 GREENWOOD AVENUE SINGLETON	Residential	55	50	46.6	44.2	44.3	42.3	-2.3	-1.9	No	No	No	No
1173	18 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.3	44.9	46.3	44.5	-1.0	-0.4	No	No	No	No
1177	16 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.0	44.6	46.1	44.3	-0.9	-0.3	No	No	No	No
1179	31 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.2	50.8	51.3	49.3	-1.9	-1.5	No	No	No	No
1181	4 GASLIGHT PLACE SINGLETON	Residential	55	50	55.5	53.1	53.4	51.4	-2.1	-1.7	No	No	No	No
1183	34 ARDERSIER DRIVE SINGLETON	Residential	55	50	51.8	49.4	50.2	48.2	-1.6	-1.2	No	No	No	No
1185	33 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.4	47.9	48.5	46.6	-1.9	-1.3	No	No	No	No
1187	14 GREENWOOD AVENUE SINGLETON	Residential	55	50	48.4	46.0	47.0	45.1	-1.4	-0.9	No	No	No	No
1189	32 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.3	50.8	51.4	49.5	-1.9	-1.3	No	No	No	No
1191	35 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.0	49.6	49.8	47.9	-2.2	-1.7	No	No	No	No
1193	19 GREENWOOD AVENUE SINGLETON	Residential	55	50	55.0	52.6	52.3	50.2	-2.7	-2.4	No	No	No	No
1195	12 GREENWOOD AVENUE SINGLETON	Residential	55	50	51.6	49.2	49.2	47.2	-2.4	-2.0	No	No	No	No
1207	15 GREENWOOD AVENUE SINGLETON	Residential	55	50	53.1	50.7	50.6	48.6	-2.5	-2.1	No	No	No	No
1211	9 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	65.5	63.1	61.8	59.7	-3.7	-3.4	No	No	No	No
1213	40 MAITLAND ROAD SINGLETON	Residential	55	50	66.8	64.3	63.1	60.9	-3.7	-3.4	No	No	No	No
1215	8 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.3	64.9	63.5	61.3	-3.8	-3.6	No	No	No	No
1216	70 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	54.7	51.0	54.1	50.1	-0.6	-0.9	No	No	No	No
1219	11 GREENWOOD AVENUE SINGLETON	Residential	55	50	56.9	54.4	53.6	51.5	-3.3	-2.9	No	No	No	No
1220	9 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.6	50.1	53.5	50.7	-0.1	0.6	Yes	No	No	No
1221	7 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.2	64.8	63.4	61.3	-3.8	-3.5	No	No	No	No
1222	7 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.4	51.4	53.8	51.7	-1.6	0.3	Yes	No	No	No
1224	11 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.3	49.2	52.2	49.8	-1.1	0.6	No	No	No	No
1225	6 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	68.1	65.7	64.3	62.2	-3.8	-3.5	No	No	No	No
1226	13 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	52.5	48.7	52.0	49.2	-0.5	0.5	No	No	No	No
1229	10 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	56.5	54.1	54.1	52.1	-2.4	-2.0	Yes	No	No	No
1230	8 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.8	50.7	53.0	50.8	-1.8	0.1	Yes	No	No	No
1231	36 MAITLAND ROAD SINGLETON	Residential	55	50	69.4	67.0	65.6	63.5	-3.8	-3.5	No	No	No	No
1233	34 MAITLAND ROAD SINGLETON	Residential	55	50	67.7	65.3	64.0	61.8	-3.7	-3.5	No	No	No	No
1234	15 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	52.7	48.7	51.9	49.5	-0.8	0.8	No	No	No	No
1235	35B WADDELLS LANE WHITTINGHAM	Residential	55	50	50.2	47.7	59.0	57.4	8.8	9.7	Yes	Yes	No	Yes
1237	30 MAITLAND ROAD SINGLETON	Residential	55	50	69.8	67.4	66.1	63.9	-3.7	-3.5	No	No	No	No
1238	10 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.2	50.1	53.0	50.6	-1.2	0.5	Yes	No	No	No
1239	5 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.0	54.6	54.0	51.9	-3.0	-2.7	No	No	No	No
1241	12 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	54.8	52.4	53.1	51.2	-1.7	-1.2	Yes	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1243	32 MAITLAND ROAD SINGLETON	Residential	55	50	69.6	67.2	65.8	63.7	-3.8	-3.5	No	No	No	No
1244	12 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.4	49.3	52.2	50.2	-1.2	0.9	No	No	No	No
1245	4 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	62.7	60.3	59.0	56.8	-3.7	-3.5	No	No	No	No
1246	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	53.5	49.2	51.3	49.3	-2.2	0.1	No	No	No	No
1247	13 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	53.7	51.3	52.6	50.8	-1.1	-0.5	Yes	No	No	No
1250	3 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.7	50.4	52.9	50.8	-1.8	0.4	Yes	No	No	No
1251	2 FERGUSON CLOSE SINGLETON	Residential	55	50	54.5	52.1	51.1	49.0	-3.4	-3.1	No	No	No	No
1252	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	52.2	48.1	51.2	49.0	-1.0	0.9	No	No	No	No
1253	1 FERGUSON CLOSE SINGLETON	Residential	55	50	57.7	55.2	54.1	52.0	-3.6	-3.2	No	No	No	No
1255	14 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	52.9	50.5	52.1	50.3	-0.8	-0.2	No	No	No	No
1256	4 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.2	50.9	53.7	51.6	-1.5	0.7	Yes	No	No	No
1258	14 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	52.5	48.8	51.6	49.5	-0.9	0.7	No	No	No	No
1259	15 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	52.1	49.6	51.5	49.6	-0.6	0.0	No	No	No	No
1261	3 FERGUSON CLOSE SINGLETON	Residential	55	50	54.4	52.0	50.9	48.8	-3.5	-3.2	No	No	No	No
1262	5 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.2	50.0	53.3	51.3	-0.9	1.3	Yes	No	No	No
1263	2 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.2	54.8	53.6	51.4	-3.6	-3.4	No	No	No	No
1265	16 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	51.3	48.9	51.1	49.3	-0.2	0.4	No	No	No	No
1267	4 FERGUSON CLOSE SINGLETON	Residential	55	50	51.1	48.7	49.1	47.1	-2.0	-1.6	No	No	No	No
1268	4945 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	58.6	54.1	55.1	53.2	-3.5	-0.9	No	No	No	No
1269	5 FERGUSON CLOSE SINGLETON	Residential	55	50	52.9	50.4	49.6	47.4	-3.3	-3.0	No	No	No	No
1271	1 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	54.6	52.2	51.1	48.9	-3.5	-3.3	No	No	No	No
1279	17 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	50.6	48.2	50.5	48.7	-0.1	0.5	No	No	No	No
1289	20 WATERHOUSE AVENUE SINGLETON	Residential	55	50	55.1	52.7	51.7	49.6	-3.4	-3.1	No	No	No	No
1291	22 WATERHOUSE AVENUE SINGLETON	Residential	55	50	52.7	50.2	49.6	47.5	-3.1	-2.7	No	No	No	No
1293	24 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.9	48.5	48.5	46.4	-2.4	-2.1	No	No	No	No
1295	26 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.1	47.7	47.9	45.9	-2.2	-1.8	No	No	No	No
1297	28 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.6	47.1	47.4	45.4	-2.2	-1.7	No	No	No	No
1299	30 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.8	46.4	47.5	45.6	-1.3	-0.8	No	No	No	No
1301	32 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.9	47.5	49.9	48.1	0.0	0.6	No	No	No	No
1303	19 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.5	52.1	51.3	49.2	-3.2	-2.9	No	No	No	No
1309	17 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.2	51.8	50.8	48.7	-3.4	-3.1	No	No	No	No
1311	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	53.5	51.0	50.3	48.3	-3.2	-2.7	No	No	No	No
1313	23 WATERHOUSE AVENUE SINGLETON	Residential	55	50	51.2	48.8	48.4	46.3	-2.8	-2.5	No	No	No	No
1315	25 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.3	47.9	48.3	46.3	-2.0	-1.6	No	No	No	No
1317	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	46.5	44.0	46.8	45.0	0.3	1.0	No	No	No	No
1319	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	43.3	40.8	45.9	44.1	2.6	3.3	No	No	No	No
1320	72 KELSO STREET SINGLETON	Residential	55	50	48.4	46.0	48.8	47.0	0.4	1.0	No	No	No	No
1321	29 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.8	46.3	47.7	45.8	-1.1	-0.5	No	No	No	No
1322	31 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.6	46.1	47.6	45.7	-1.0	-0.4	No	No	No	No
1323	27 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.4	46.0	47.1	45.2	-1.3	-0.8	No	No	No	No
1324	70 KELSO STREET SINGLETON	Residential	55	50	48.0	45.6	48.9	47.1	0.9	1.5	No	No	No	No
1325	2 ELLEN AVENUE SINGLETON	Residential	55	50	49.6	47.2	48.5	46.6	-1.1	-0.6	No	No	No	No
1326	12 TULLOCH CLOSE SINGLETON	Residential	55	50	50.6	48.2	48.1	46.1	-2.5	-2.1	No	No	No	No
1327	9 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.3	43.9	44.5	42.5	-1.8	-1.4	No	No	No	No
1328	6 ELLEN AVENUE SINGLETON	Residential	55	50	47.9	45.5	47.1	45.3	-0.8	-0.2	No	No	No	No
1329	4 ELLEN AVENUE SINGLETON	Residential	55	50	48.9	46.5	48.0	46.1	-0.9	-0.4	No	No	No	No
1330	11 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	40.4	37.9	46.2	44.6	5.8	6.7	No	No	No	No
1331	7 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.6	45.1	46.4	44.5	-1.2	-0.6	No	No	No	No
1332	8 ELLEN AVENUE SINGLETON	Residential	55	50	50.0	47.5	50.3	48.5	0.3	1.0	No	No	No	No
1333	10 ELLEN AVENUE SINGLETON	Residential	55	50	49.2	46.7	50.5	48.7	1.3	2.0	No	No	Yes	Yes
1333	10 ELLEN AVENUE SINGLETON*	Residential	55	50	36.3	33.8	48.2	46.6	11.9	12.8				
1334	5 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	43.1	40.6	45.8	44.0	2.7	3.4	No	No	No	No
1335	68 KELSO STREET SINGLETON	Residential	55	50	47.7	45.3	48.3	46.6	0.6	1.3	No	No	No	No
1336	14 ELLEN AVENUE SINGLETON	Residential	55	50	50.6	48.2	52.9	51.2	2.3	3.0	Yes	No	Yes	Yes
1336	14 ELLEN AVENUE SINGLETON*	Residential	55	50	39.2	36.8	50.6	49.0	11.4	12.2				
1337	12 ELLEN AVENUE SINGLETON	Residential	55	50	48.9	46.5	51.0	49.3	2.1	2.8	No	No	No	No
1338	1 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	42.6	40.1	45.6	43.9	3.0	3.8	No	No	No	No
1339	3 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.5	44.1	45.9	44.0	-0.6	-0.1	No	No	No	No
1340	16 ELLEN AVENUE SINGLETON	Residential	55	50	49.2	46.8	55.2	53.6	6.0	6.8	Yes	No	Yes	Yes
1340	16 ELLEN AVENUE SINGLETON*	Residential	55	50	39.4	36.9	51.3	49.7	11.9	12.8				
1341	66 KELSO STREET SINGLETON	Residential	55	50	46.4	43.9	47.5	45.7	1.1	1.8	No	No	No	No
1343	10 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.6	46.1	46.9	45.0	-1.7	-1.1	No	No	No	No
1344	3 ELLEN AVENUE SINGLETON	Residential	55	50	43.1	40.7	46.6	44.9	3.5	4.2	No	No	No	No
1345	1 ELLEN AVENUE SINGLETON	Residential	55	50	46.9	44.5	46.6	44.7	-0.3	0.2	No	No	No	No
1346	8 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.8	45.3	46.3	44.4	-1.5	-0.9	No	No	No	No
1347	6 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.5	45.1	46.2	44.3	-1.3	-0.8	No	No	No	No
1348	4 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.9	44.5	45.9	44.0	-1.0	-0.5	No	No	No	No
1349	103 KELSO STREET SINGLETON	Residential	55	50	41.7	39.3	44.8	43.0	3.1	3.7	No	No	No	No
1351	5 ELLEN AVENUE SINGLETON	Residential	55	50	44.4	42.0	47.6	45.9	3.2	3.9	No	No	No	No
1352	2 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.8	44.4	46.2	44.3	-0.6	-0.1	No	No	No	No
1353	64 KELSO STREET SINGLETON	Residential	55	50	46.0	43.6	47.4	45.6	1.4	2.0	No	No	No	No
1354	7 ELLEN AVENUE SINGLETON	Residential	55	50	46.2	43.8	53.8	52.2	7.6	8.4	Yes	No	No	Yes
1355	101 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	46.2	44.5	3.0	3.7	No	No	No	No
1356	39 ADA STREET SINGLETON	Residential	55	50	44.8	42.3	49.9	48.2	5.1	5.9	No	No	No	No
1357	44 ADA STREET SINGLETON	Residential	55	50	42.6	40.2	46.1	44.4	3.5	4.2	No	No	No	No
1358	50 ORCHARD AVENUE SINGLETON	Residential	55	50	48.1	45.7	46.8	44.8	-1.3	-0.9	No	No	No	No
1359	62 KELSO STREET SINGLETON	Residential	55	50	45.0	42.6	47.3	45.5	2.3	2.9	No	No	No	No
1360	99 KELSO STREET SINGLETON	Residential	55	50	43.7	41.2	46.3	44.6	2.6	3.4	No	No	No	No
1361	35B WADDELLS LANE SINGLETON	Residential	55	50	47.1	44.7	61.1	59.5	14.0	14.8	Yes	Yes	Yes	Yes
1362	12 WADDELLS AVENUE SINGLETON	Residential	55	50	48.1	45.7	54.7	53.0	6.6	7.3	Yes	No	Yes	Yes
1362	12 WADDELLS AVENUE SINGLETON*	Residential	55	50	36.8	34.3	49.4	47.8	12.6	13.5				
1363	37 ADA STREET SINGLETON	Residential	55	50	45.0	42.6	50.8	49.1	5.8	6.5	No	No	No	No
1364	42 ADA STREET SINGLETON	Residential	55	50	42.9	40.5	46.4	44.7	3.5	4.2	No	No	No	No
1365	52 ORCHARD AVENUE SINGLETON	Residential	55	50	47.4	45.0	46.0	44.1	-1.4	-0.9	No	No	No	No
1366	54 ORCHARD AVENUE SINGLETON	Residential	55	50	40.7	38.2	46.4	44.7	5.7	6.5	No	No	No	No
1367	60 KELSO STREET SINGLETON	Residential	55	50	44.9	42.5	47.8	46.1	2.9	3.6	No	No	No	No
1368	35 ADA STREET SINGLETON	Residential	55	50	44.5	42.0	51.6	50.0	7.1	8.0	No	No	No	No
1369	10 WADDELLS AVENUE SINGLETON	Residential	55	50	48.1	45.7	54.6	53.0	6.5	7.3	Yes	No	No	Yes
1370	40 ADA STREET SINGLETON	Residential	55	50	42.5	40.0	47.4	45.8	4.9	5.8	No	No	No	No
1371	97 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	46.5	44.8	3.3	4.0	No	No	No	No
1372	95 KELSO STREET SINGLETON	Residential	55	50	39.7	37.3	46.7	45.1	7.0	7.8	No	No	No	No
1373	8 WADDELLS AVENUE SINGLETON	Residential	55	50	46.3	43.8	53.7	52.1	7.4	8.3	Yes	No	Yes	Yes
1373	8 WADDELLS AVENUE SINGLETON*	Residential	55	50	40.4	38.0	52.4	50.8	12.0	12.8				

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1374	47 ORCHARD AVENUE SINGLETON	Residential	55	50	43.8	41.4	46.6	44.9	2.8	3.5	No	No	No	No
1375	33 ADA STREET SINGLETON	Residential	55	50	42.1	39.6	47.3	45.6	5.2	6.0	No	No	No	No
1376	38 ADA STREET SINGLETON	Residential	55	50	41.7	39.2	48.0	46.4	6.3	7.2	No	No	No	No
1377	49 ORCHARD AVENUE SINGLETON	Residential	55	50	47.4	45.0	46.3	44.4	-1.1	-0.6	No	No	No	No
1378	51 ORCHARD AVENUE SINGLETON	Residential	55	50	46.8	44.4	46.1	44.3	-0.7	-0.1	No	No	No	No
1379	58 KELSO STREET SINGLETON	Residential	55	50	43.7	41.3	46.8	45.1	3.1	3.8	No	No	No	No
1380	6 WADDELLS AVENUE SINGLETON	Residential	55	50	46.2	43.8	53.6	52.0	7.4	8.2	Yes	No	No	Yes
1381	63 BUCHAN AVENUE SINGLETON	Residential	55	50	42.4	40.0	46.7	45.1	4.3	5.1	No	No	No	No
1382	36 ADA STREET SINGLETON	Residential	55	50	42.0	39.6	49.9	48.2	7.9	8.6	No	No	No	No
1383	4 WADDELLS AVENUE SINGLETON	Residential	55	50	45.6	43.2	53.6	51.9	8.0	8.7	Yes	No	No	Yes
1384	31 ADA STREET SINGLETON	Residential	55	50	39.2	36.7	49.7	48.0	10.5	11.3	No	No	No	No
1385	61 BUCHAN AVENUE SINGLETON	Residential	55	50	41.1	38.6	47.0	45.3	5.9	6.7	No	No	No	No
1386	56 KELSO STREET SINGLETON	Residential	55	50	43.7	41.3	46.7	45.0	3.0	3.7	No	No	No	No
1387	59 BUCHAN AVENUE SINGLETON	Residential	55	50	43.0	40.5	47.4	45.8	4.4	5.3	No	No	No	No
1388	85 KELSO STREET SINGLETON	Residential	55	50	44.5	42.0	44.2	42.3	-0.3	0.3	No	No	No	No
1389	2 WADDELLS AVENUE SINGLETON	Residential	55	50	45.5	43.1	53.5	51.9	8.0	8.8	Yes	No	Yes	Yes
1389	2 WADDELLS AVENUE SINGLETON*	Residential	55	50	39.7	37.2	51.2	49.6	11.5	12.4				
1390	85 KELSO STREET SINGLETON	Residential	55	50	42.2	39.7	50.6	49.0	8.4	9.3	No	No	Yes	Yes
1390	85 KELSO STREET SINGLETON*	Residential	55	50	37.1	34.6	50.1	48.5	13.0	13.9				
1391	54 KELSO STREET SINGLETON	Residential	55	50	43.3	40.9	46.7	45.1	3.4	4.2	No	No	No	No
1392	57 BUCHAN AVENUE SINGLETON	Residential	55	50	42.9	40.5	47.2	45.5	4.3	5.0	No	No	No	No
1393	55 BUCHAN AVENUE SINGLETON	Residential	55	50	41.3	38.8	47.7	46.1	6.4	7.3	No	No	No	No
1394	52 KELSO STREET SINGLETON	Residential	55	50	43.0	40.5	46.8	45.2	3.8	4.7	No	No	No	No
1395	85 KELSO STREET SINGLETON	Residential	55	50	38.0	35.6	45.3	43.6	7.3	8.0	No	No	No	No
1396	50 KELSO STREET SINGLETON	Residential	55	50	43.1	40.6	47.2	45.5	4.1	4.9	No	No	No	No
1397	83 KELSO STREET SINGLETON	Residential	55	50	40.0	37.5	46.7	45.1	6.7	7.6	No	No	No	No
1398	83 KELSO STREET SINGLETON	Residential	55	50	42.6	40.1	50.7	49.1	8.1	9.0	No	No	No	No
1399	46 KELSO STREET SINGLETON	Residential	55	50	42.5	40.1	47.5	45.8	5.0	5.7	No	No	No	No
1400	81 KELSO STREET SINGLETON	Residential	55	50	40.8	38.3	49.7	48.1	8.9	9.8	No	No	No	No
1401	44 KELSO STREET SINGLETON	Residential	55	50	42.0	39.6	47.1	45.5	5.1	5.9	No	No	No	No
1402	79 KELSO STREET SINGLETON	Residential	55	50	42.6	40.1	50.0	48.4	7.4	8.3	No	No	No	No
1403	42 KELSO STREET SINGLETON	Residential	55	50	42.7	40.2	47.6	45.9	4.9	5.7	No	No	No	No
1404	77 KELSO STREET SINGLETON	Residential	55	50	43.7	41.2	50.2	48.5	6.5	7.3	No	No	No	No
1405	75 KELSO STREET SINGLETON	Residential	55	50	40.9	38.4	47.4	45.8	6.5	7.4	No	No	No	No
1406	40 KELSO STREET SINGLETON	Residential	55	50	42.5	40.0	47.2	45.5	4.7	5.5	No	No	No	No
1407	38 KELSO STREET SINGLETON	Residential	55	50	42.3	39.8	47.1	45.4	4.8	5.6	No	No	No	No
1409	36 KELSO STREET SINGLETON	Residential	55	50	42.1	39.6	46.8	45.2	4.7	5.6	No	No	No	No
1410	73 KELSO STREET SINGLETON	Residential	55	50	39.6	37.2	46.9	45.3	7.3	8.1	No	No	No	No
1411	16 ADA STREET SINGLETON	Residential	55	50	44.0	41.6	50.7	49.1	6.7	7.5	No	No	No	No
1412	71 KELSO STREET SINGLETON	Residential	55	50	41.6	39.2	48.1	46.5	6.5	7.3	No	No	No	No
1413	34 KELSO STREET SINGLETON	Residential	55	50	41.6	39.2	46.8	45.1	5.2	5.9	No	No	No	No
1414	14 ADA STREET SINGLETON	Residential	55	50	44.2	41.7	50.1	48.5	5.9	6.8	No	No	No	No
1415	69 KELSO STREET SINGLETON	Residential	55	50	42.8	40.4	47.9	46.2	5.1	5.8	No	No	No	No
1416	13 ADA STREET SINGLETON	Residential	55	50	44.0	41.5	52.5	50.9	8.5	9.4	Yes	No	Yes	Yes
1416	13 ADA STREET SINGLETON*	Residential	55	50	37.3	34.8	49.2	47.6	11.9	12.8				
1417	2 DEAKIN AVENUE SINGLETON	Residential	55	50	38.5	35.9	46.0	44.4	7.5	8.5	No	No	No	No
1418	12 ADA STREET SINGLETON	Residential	55	50	42.1	39.7	48.8	47.2	6.7	7.5	No	No	No	No
1419	32A KELSO STREET SINGLETON	Residential	55	50	42.3	39.9	46.8	45.1	4.5	5.2	No	No	No	No
1420	67 KELSO STREET SINGLETON	Residential	55	50	41.9	39.4	47.7	46.0	5.8	6.6	No	No	No	No
1421	12 ADA STREET SINGLETON	Residential	55	50	40.6	38.1	47.6	46.0	7.0	7.9	No	No	No	No
1422	11 ADA STREET SINGLETON	Residential	55	50	42.7	40.2	52.3	50.6	9.6	10.4	Yes	No	Yes	Yes
1422	11 ADA STREET SINGLETON*	Residential	55	50	35.6	33.1	47.9	46.3	12.3	13.2				
1424	65 KELSO STREET SINGLETON	Residential	55	50	42.1	39.7	47.6	45.9	5.5	6.2	No	No	No	No
1425	10 ADA STREET SINGLETON	Residential	55	50	42.8	40.4	49.6	48.0	6.8	7.6	No	No	No	No
1426	9 ADA STREET SINGLETON	Residential	55	50	43.4	41.0	52.1	50.5	8.7	9.5	Yes	No	Yes	Yes
1426	9 ADA STREET SINGLETON*	Residential	55	50	37.5	35.0	49.1	47.5	11.6	12.5				
1427	8 ADA STREET SINGLETON	Residential	55	50	42.4	39.9	49.4	47.8	7.0	7.9	No	No	No	No
1428	15 ADA STREET SINGLETON	Residential	55	50	43.0	40.5	57.1	55.5	14.1	15.0	Yes	Yes	Yes	Yes
1429	63 KELSO STREET SINGLETON	Residential	55	50	38.9	36.5	45.7	44.0	6.8	7.5	No	No	No	No
1431	30 KELSO STREET SINGLETON	Residential	55	50	41.9	39.4	46.8	45.2	4.9	5.8	No	No	No	No
1432	6 ADA STREET SINGLETON	Residential	55	50	41.9	39.4	48.3	46.7	6.4	7.3	No	No	No	No
1433	4 ADA STREET SINGLETON	Residential	55	50	40.8	38.4	45.1	43.4	4.3	5.0	No	No	No	No
1434	61 KELSO STREET SINGLETON	Residential	55	50	37.1	34.5	45.1	43.5	8.0	9.0	No	No	No	No
1436	7 ADA STREET SINGLETON	Residential	55	50	43.2	40.8	51.6	50.0	8.4	9.2	No	No	Yes	Yes
1436	7 ADA STREET SINGLETON*	Residential	55	50	35.3	32.6	46.3	44.7	11.0	12.1				
1437	4 ADA STREET SINGLETON	Residential	55	50	42.3	39.8	47.7	46.1	5.4	6.3	No	No	No	No
1439	26 KELSO STREET SINGLETON	Residential	55	50	38.8	36.0	46.6	44.9	7.8	8.9	No	No	No	No
1440	2 ADA STREET SINGLETON	Residential	55	50	41.9	39.5	47.3	45.7	5.4	6.2	No	No	No	No
1441	5 ADA STREET SINGLETON	Residential	55	50	43.4	41.0	51.7	50.1	8.3	9.1	No	No	No	No
1442	59 KELSO STREET SINGLETON	Residential	55	50	40.0	37.5	46.1	44.5	6.1	7.0	No	No	No	No
1443	3 ADA STREET SINGLETON	Residential	55	50	39.3	36.9	50.6	49.0	11.3	12.1	No	No	Yes	Yes
1444	57 KELSO STREET SINGLETON	Residential	55	50	40.8	38.3	46.2	44.5	5.4	6.2	No	No	No	No
1445	6 BOND STREET SINGLETON	Residential	55	50	42.5	40.1	45.6	43.9	3.1	3.8	No	No	No	No
1446	1A ADA STREET SINGLETON	Residential	55	50	42.3	39.8	51.1	49.5	8.8	9.7	No	No	No	No
1447	4 BOND STREET SINGLETON	Residential	55	50	42.3	39.9	46.6	45.0	4.3	5.1	No	No	No	No
1448	55 KELSO STREET SINGLETON	Residential	55	50	39.8	37.3	46.7	45.1	6.9	7.8	No	No	No	No
1449	2 BOND STREET SINGLETON	Residential	55	50	40.8	38.4	48.1	46.5	7.3	8.1	No	No	No	No
1452	53 KELSO STREET SINGLETON	Residential	55	50	39.9	37.5	46.7	45.1	6.8	7.6	No	No	No	No
1454	51 KELSO STREET SINGLETON	Residential	55	50	40.4	38.0	46.5	44.8	6.1	6.8	No	No	No	No
1455	1 ADA STREET SINGLETON	Residential	55	50	44.0	41.5	54.5	52.9	10.5	11.4	Yes	No	Yes	Yes
1455	1 ADA STREET SINGLETON*	Residential	55	50	36.0	33.4	52.1	50.6	16.1	17.2				
1456	2 ROSE AVENUE SINGLETON	Residential	55	50	44.2	41.8	50.1	48.5	5.9	6.7	No	No	No	No
1457	40 ANDREW STREET SINGLETON	Residential	55	50	40.5	38.1	47.5	45.9	7.0	7.8	No	No	No	No
1458	6 ROSE AVENUE SINGLETON	Residential	55	50	44.9	42.5	50.7	49.0	5.8	6.5	No	No	No	No
1459	4 ROSE AVENUE SINGLETON	Residential	55	50	44.4	42.0	48.6	47.0	4.2	5.0	No	No	No	No
1460	38 ANDREW STREET SINGLETON	Residential	55	50	37.7	35.2	46.5	44.8	8.8	9.6	No	No	No	No
1462	10 ROSE AVENUE SINGLETON	Residential	55	50	45.6	43.2	50.6	49.0	5.0	5.8	No	No	Yes	Yes
1462	10 ROSE AVENUE SINGLETON*	Residential	55	50	35.6	32.9	47.0	45.4	11.4	12.5				
1463	8 ROSE AVENUE SINGLETON	Residential	55	50	44.9	42.5	50.4	48.7	5.5	6.2	No	No	No	No
1464	36 ANDREW STREET SINGLETON	Residential	55	50	38.6	36.1	46.5	44.8	7.9	8.7	No	No	No	No
1465	12 ROSE AVENUE SINGLETON	Residential	55	50	45.9	43.5	52.0	50.4	6.1	6.9	No	No	Yes	Yes
1465	12 ROSE AVENUE SINGLETON*	Residential	55	50	36.8	34.2	48.8	47.1	12.0	12.9				
1466	16 ROSE AVENUE SINGLETON	Residential	55	50	45.2	42.8	50.2	48.5	5.0	5.7	No	No	Yes	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1466	16 ROSE AVENUE SINGLETON*	Residential	55	50	36.3	33.6	49.2	47.6	12.9	14.0				
1467	14 ROSE AVENUE SINGLETON	Residential	55	50	45.8	43.3	51.6	49.9	5.8	6.6	No	No	Yes	Yes
1467	14 ROSE AVENUE SINGLETON*	Residential	55	50	36.6	34.0	49.5	47.9	12.9	13.9				
1468	18 ROSE AVENUE SINGLETON	Residential	55	50	44.2	41.8	50.8	49.2	6.6	7.4	No	No	Yes	Yes
1468	18 ROSE AVENUE SINGLETON*	Residential	55	50	36.6	34.0	48.1	46.5	11.5	12.5				
1469	20 ROSE AVENUE SINGLETON	Residential	55	50	43.6	41.2	50.2	48.5	6.6	7.3	No	No	Yes	Yes
1469	20 ROSE AVENUE SINGLETON*	Residential	55	50	37.0	34.3	48.9	47.3	11.9	13.0				
1470	13 RENSHAW AVENUE SINGLETON	Residential	55	50	43.1	40.6	54.9	53.3	11.8	12.7	Yes	No	Yes	Yes
1471	35 ANDREW STREET SINGLETON	Residential	55	50	43.0	40.5	45.6	43.9	2.6	3.4	No	No	No	No
1472	3 ROSE AVENUE SINGLETON	Residential	55	50	43.9	41.5	46.0	44.2	2.1	2.7	No	No	No	No
1473	5 ROSE AVENUE SINGLETON	Residential	55	50	44.8	42.3	46.7	44.9	1.9	2.6	No	No	No	No
1474	26 VIEW STREET SINGLETON	Residential	55	50	45.3	42.9	49.1	47.4	3.8	4.5	No	No	No	No
1475	32 ANDREW STREET SINGLETON	Residential	55	50	40.3	37.8	46.0	44.3	5.7	6.5	No	No	No	No
1476	1 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.6	54.8	53.2	12.8	13.6	Yes	No	Yes	Yes
1477	32 ANDREW STREET SINGLETON	Residential	55	50	40.2	37.7	45.8	44.1	5.6	6.4	No	No	No	No
1478	29 VIEW STREET SINGLETON	Residential	55	50	42.6	40.1	52.7	51.1	10.1	11.0	Yes	No	Yes	Yes
1478	29 VIEW STREET SINGLETON*	Residential	55	50	33.3	30.7	48.3	46.7	15.0	16.0				
1479	2 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.6	52.1	50.5	10.1	10.9	Yes	No	Yes	Yes
1479	2 RENSHAW AVENUE SINGLETON*	Residential	55	50	37.3	34.8	48.6	46.9	11.3	12.1				
1480	32 ANDREW STREET SINGLETON	Residential	55	50	39.5	37.0	45.6	43.9	6.1	6.9	No	No	No	No
1482	33 ANDREW STREET SINGLETON	Residential	55	50	39.8	37.3	44.5	42.8	4.7	5.5	No	No	No	No
1483	24 VIEW STREET SINGLETON	Residential	55	50	42.2	39.7	48.5	46.9	6.3	7.2	No	No	No	No
1484	32 ANDREW STREET SINGLETON	Residential	55	50	39.9	37.4	45.4	43.8	5.5	6.4	No	No	No	No
1485	3 RENSHAW AVENUE SINGLETON	Residential	55	50	41.3	38.8	54.6	53.0	13.3	14.2	Yes	No	Yes	Yes
1486	30 ANDREW STREET SINGLETON	Residential	55	50	40.6	38.1	45.4	43.7	4.8	5.6	No	No	No	No
1487	27 VIEW STREET SINGLETON	Residential	55	50	37.7	35.1	52.1	50.5	14.4	15.4	Yes	No	Yes	Yes
1488	4 RENSHAW AVENUE SINGLETON	Residential	55	50	41.2	38.7	52.2	50.6	11.0	11.9	Yes	No	Yes	Yes
1488	4 RENSHAW AVENUE SINGLETON*	Residential	55	50	34.6	32.0	48.6	47.0	14.0	15.0				
1490	6 RENSHAW AVENUE SINGLETON	Residential	55	50	41.9	39.4	52.4	50.8	10.5	11.4	Yes	No	Yes	Yes
1490	6 RENSHAW AVENUE SINGLETON*	Residential	55	50	34.8	32.3	49.8	48.2	15.0	15.9				
1491	22 VIEW STREET SINGLETON	Residential	55	50	40.6	38.2	47.9	46.2	7.3	8.0	No	No	No	No
1492	43 KELSO STREET SINGLETON	Residential	55	50	37.6	34.8	45.4	43.7	7.8	8.9	No	No	No	No
1493	5 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	54.5	52.9	13.1	14.0	Yes	No	Yes	Yes
1494	25 VIEW STREET SINGLETON	Residential	55	50	37.6	34.9	51.4	49.8	13.8	14.9	No	No	Yes	Yes
1495	8 RENSHAW AVENUE SINGLETON	Residential	55	50	40.4	37.9	52.5	50.9	12.1	13.0	Yes	No	Yes	Yes
1496	20 VIEW STREET SINGLETON	Residential	55	50	43.7	41.3	49.5	47.9	5.8	6.6	No	No	No	No
1497	7 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	54.3	52.7	12.9	13.8	Yes	No	Yes	Yes
1498	29 ANDREW STREET SINGLETON	Residential	55	50	40.4	38.0	45.0	43.3	4.6	5.3	No	No	No	No
1499	23 VIEW STREET SINGLETON	Residential	55	50	41.3	38.8	52.3	50.7	11.0	11.9	Yes	No	Yes	Yes
1499	23 VIEW STREET SINGLETON*	Residential	55	50	33.1	30.6	47.9	46.3	14.8	15.7				
1500	10 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	52.7	51.1	11.3	12.2	Yes	No	Yes	Yes
1501	36A VICTORIA STREET GLENRIDDING	Residential	55	50	42.1	39.6	59.2	57.7	17.1	18.1	Yes	Yes	Yes	Yes
1502	9 RENSHAW AVENUE SINGLETON	Residential	55	50	42.1	39.6	54.0	52.4	11.9	12.8	Yes	No	Yes	Yes
1503	18 VIEW STREET SINGLETON	Residential	55	50	42.9	40.4	49.2	47.6	6.3	7.2	No	No	No	No
1504	21 VIEW STREET SINGLETON	Residential	55	50	42.2	39.7	52.8	51.1	10.6	11.4	Yes	No	Yes	Yes
1504	21 VIEW STREET SINGLETON*	Residential	55	50	31.9	29.4	44.8	43.2	12.9	13.8				
1505	28 ANDREW STREET SINGLETON	Residential	55	50	40.6	38.1	45.0	43.4	4.4	5.3	No	No	No	No
1507	19 VIEW STREET SINGLETON	Residential	55	50	38.6	36.2	52.2	50.6	13.6	14.4	Yes	No	Yes	Yes
1508	12 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	52.6	51.0	11.2	12.1	Yes	No	Yes	Yes
1509	11 RENSHAW AVENUE SINGLETON	Residential	55	50	35.8	33.2	50.4	48.8	14.6	15.6	No	No	Yes	Yes
1511	27 ANDREW STREET SINGLETON	Residential	55	50	41.5	39.0	45.8	44.1	4.3	5.1	No	No	No	No
1512	16 VIEW STREET SINGLETON	Residential	55	50	42.7	40.3	49.7	48.1	7.0	7.8	No	No	No	No
1513	26 ANDREW STREET SINGLETON	Residential	55	50	41.2	38.7	45.5	43.8	4.3	5.1	No	No	No	No
1514	17 VIEW STREET SINGLETON	Residential	55	50	43.4	41.0	53.1	51.5	9.7	10.5	Yes	No	Yes	Yes
1514	17 VIEW STREET SINGLETON*	Residential	55	50	36.9	34.2	49.4	47.8	12.5	13.6				
1515	14 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	52.4	50.8	10.4	11.3	Yes	No	Yes	Yes
1515	14 RENSHAW AVENUE SINGLETON*	Residential	55	50	36.4	33.9	47.6	46.0	11.2	12.1				
1516	25 ANDREW STREET SINGLETON	Residential	55	50	41.6	39.1	46.7	45.0	5.1	5.9	No	No	No	No
1517	14 VIEW STREET SINGLETON	Residential	55	50	42.2	39.8	49.5	47.9	7.3	8.1	No	No	No	No
1518	22 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	54.9	53.3	12.9	13.8	Yes	No	Yes	Yes
1519	20 RENSHAW AVENUE SINGLETON	Residential	55	50	41.3	38.9	51.1	49.5	9.8	10.6	No	No	Yes	Yes
1519	20 RENSHAW AVENUE SINGLETON*	Residential	55	50	37.2	34.6	50.4	48.8	13.2	14.2				
1520	18 RENSHAW AVENUE SINGLETON	Residential	55	50	40.6	38.1	50.3	48.7	9.7	10.6	No	No	Yes	Yes
1520	18 RENSHAW AVENUE SINGLETON*	Residential	55	50	36.3	33.6	49.4	47.8	13.1	14.2				
1521	15 VIEW STREET SINGLETON	Residential	55	50	43.2	40.7	53.0	51.4	9.8	10.7	Yes	No	Yes	Yes
1521	15 VIEW STREET SINGLETON*	Residential	55	50	34.7	32.2	48.5	46.9	13.8	14.7				
1522	23 ANDREW STREET SINGLETON	Residential	55	50	40.4	37.9	46.7	45.1	6.3	7.2	No	No	No	No
1523	24 ANDREW STREET SINGLETON	Residential	55	50	41.1	38.5	44.4	42.7	3.3	4.2	No	No	No	No
1524	16 RENSHAW AVENUE SINGLETON	Residential	55	50	44.2	41.7	54.5	52.8	10.3	11.1	Yes	No	Yes	Yes
1524	16 RENSHAW AVENUE SINGLETON*	Residential	55	50	36.4	33.6	50.6	49.0	14.2	15.4				
1525	12 VIEW STREET SINGLETON	Residential	55	50	40.6	38.1	47.5	45.9	6.9	7.8	No	No	No	No
1526	13 VIEW STREET SINGLETON	Residential	55	50	42.3	39.8	52.9	51.3	10.6	11.5	Yes	No	Yes	Yes
1526	13 VIEW STREET SINGLETON*	Residential	55	50	35.0	32.5	49.1	47.5	14.1	15.0				
1527	12 RAILWAY STREET SINGLETON	Residential	55	50	40.8	38.3	54.4	52.8	13.6	14.5	Yes	No	Yes	Yes
1528	21 ANDREW STREET SINGLETON	Residential	55	50	38.8	36.3	46.2	44.5	7.4	8.2	No	No	No	No
1529	22 ANDREW STREET SINGLETON	Residential	55	50	40.3	37.8	45.2	43.5	4.9	5.7	No	No	No	No
1530	20 ANDREW STREET SINGLETON	Residential	55	50	39.6	37.1	45.0	43.4	5.4	6.3	No	No	No	No
1531	10 VIEW STREET SINGLETON	Residential	55	50	40.2	37.6	48.2	46.6	8.0	9.0	No	No	No	No
1532	10 RAILWAY STREET SINGLETON	Residential	55	50	40.0	37.3	54.5	52.9	14.5	15.6	Yes	No	Yes	Yes
1533	11 VIEW STREET SINGLETON	Residential	55	50	42.7	40.1	53.5	51.9	10.8	11.8	Yes	No	Yes	Yes
1533	11 VIEW STREET SINGLETON*	Residential	55	50	35.9	33.4	49.3	47.7	13.4	14.3				
1534	19 ANDREW STREET SINGLETON	Residential	55	50	39.6	37.1	46.4	44.7	6.8	7.6	No	No	No	No
1535	8 VIEW STREET SINGLETON	Residential	55	50	40.0	37.4	48.3	46.7	8.3	9.3	No	No	No	No
1536	17 ANDREW STREET SINGLETON	Residential	55	50	37.3	34.6	46.0	44.4	8.7	9.8	No	No	No	No
1537	18 ANDREW STREET SINGLETON	Residential	55	50	39.2	36.7	45.0	43.3	5.8	6.6	No	No	No	No
1538	8B RAILWAY STREET SINGLETON	Residential	55	50	41.3	38.8	53.5	51.9	12.2	13.1	Yes	No	Yes	Yes
1539	9 VIEW STREET SINGLETON	Residential	55	50	39.6	37.1	52.7	51.1	13.1	14.0	Yes	No	Yes	Yes
1540	6 VIEW STREET SINGLETON	Residential	55	50	39.2	36.6	47.5	45.9	8.3	9.3	No	No	No	No
1542	8 RAILWAY STREET SINGLETON	Residential	55	50	40.4	37.8	53.8	52.2	13.4	14.4	Yes	No	Yes	Yes
1543	7 VIEW STREET SINGLETON	Residential	55	50	39.9	37.5	52.1	50.5	12.2	13.0	Yes	No	Yes	Yes
1544	16 ANDREW STREET SINGLETON	Residential	55	50	38.0	35.2	45.3	43.7	7.3	8.5	No	No	No	No
1545	15 ANDREW STREET SINGLETON	Residential	55	50	39.0	36.4	46.0	44.3	7.0	7.9	No	No	No	No
1549	2 SCOTT STREET SINGLETON	Residential	55	50	39.3	36.6	53.7	52.1	14.4	15.5	Yes	No	Yes	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1550	5 VIEW STREET SINGLETON	Residential	55	50	42.2	39.7	53.3	51.7	11.1	12.0	Yes	No	Yes	Yes
1553	4 VIEW STREET SINGLETON	Residential	55	50	38.1	35.5	47.1	45.5	9.0	10.0	No	No	No	No
1555	3A VIEW STREET SINGLETON	Residential	55	50	38.2	35.5	52.5	50.9	14.3	15.4	Yes	No	Yes	Yes
1556	13 ANDREW STREET SINGLETON	Residential	55	50	38.5	35.7	46.0	44.4	7.5	8.7	No	No	No	No
1558	14A ANDREW STREET SINGLETON	Residential	55	50	41.5	38.9	45.1	43.4	3.6	4.5	No	No	No	No
1559	2 SCOTT STREET SINGLETON	Residential	55	50	40.4	37.8	53.7	52.1	13.3	14.3	Yes	No	Yes	Yes
1560	3 VIEW STREET SINGLETON	Residential	55	50	40.7	38.2	53.2	51.6	12.5	13.4	Yes	No	Yes	Yes
1561	2A VIEW STREET SINGLETON	Residential	55	50	38.0	35.5	48.1	46.5	10.1	11.0	No	No	Yes	Yes
1561	2A VIEW STREET SINGLETON*	Residential	55	50	31.2	28.6	43.1	41.5	11.9	12.9				
1562	14 ANDREW STREET SINGLETON	Residential	55	50	38.8	36.2	45.5	43.9	6.7	7.7	No	No	No	No
1563	2 VIEW STREET SINGLETON	Residential	55	50	38.9	36.1	49.3	47.6	10.4	11.5	No	No	No	No
1564	9-11 ANDREW STREET SINGLETON	Residential	55	50	37.5	34.7	46.1	44.4	8.6	9.7	No	No	No	No
1565	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	40.9	38.3	53.4	51.8	12.5	13.5	Yes	No	Yes	Yes
1566	12 ANDREW STREET SINGLETON	Residential	55	50	39.0	36.4	45.7	44.0	6.7	7.6	No	No	No	No
1567	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	40.2	37.7	55.3	53.7	15.1	16.0	Yes	No	Yes	Yes
1568	68 CHURCH STREET SINGLETON	Residential	55	50	36.9	34.2	46.2	44.6	9.3	10.4	No	No	No	No
1569	70 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.2	49.0	47.4	10.2	11.2	No	No	No	No
1570	66 CHURCH STREET SINGLETON	Residential	55	50	38.3	35.7	45.8	44.2	7.5	8.5	No	No	No	No
1572	55 CHURCH STREET GLENRIDDING	Residential	55	50	40.3	37.7	56.4	54.8	16.1	17.1	Yes	Yes	Yes	Yes
1573	64 CHURCH STREET SINGLETON	Residential	55	50	36.9	34.2	44.8	43.2	7.9	9.0	No	No	No	No
1575	56 CHURCH STREET SINGLETON	Residential	55	50	38.4	35.6	46.2	44.6	7.8	9.0	No	No	No	No
1576	60 CHURCH STREET SINGLETON	Residential	55	50	38.5	35.7	46.0	44.4	7.5	8.7	No	No	No	No
1577	62 CHURCH STREET SINGLETON	Residential	55	50	37.6	34.8	45.0	43.4	7.4	8.6	No	No	No	No
1578	31 VICTORIA STREET GLENRIDDING	Residential	55	50	39.2	36.5	53.2	51.6	14.0	15.1	Yes	No	Yes	Yes
1580	56 CHURCH STREET SINGLETON	Residential	55	50	38.3	35.5	46.3	44.7	8.0	9.2	No	No	No	No
1582	47 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.1	51.0	49.4	12.2	13.3	No	No	Yes	Yes
1584	30 VICTORIA STREET GLENRIDDING	Residential	55	50	37.3	34.5	52.5	50.9	15.2	16.4	Yes	No	Yes	Yes
1585	43 CHURCH STREET SINGLETON	Residential	55	50	38.5	35.6	49.5	47.9	11.0	12.3	No	No	Yes	Yes
1586	45 CHURCH STREET SINGLETON	Residential	55	50	39.6	36.8	50.1	48.5	10.5	11.7	No	No	No	No
1588	41 CHURCH STREET SINGLETON	Residential	55	50	38.3	35.6	45.1	43.5	6.8	7.9	No	No	No	No
1589	39A CHURCH STREET SINGLETON	Residential	55	50	38.7	35.8	48.0	46.4	9.3	10.6	No	No	No	No
1591	29 VICTORIA STREET GLENRIDDING	Residential	55	50	37.9	35.1	52.5	50.9	14.6	15.8	Yes	No	Yes	Yes
1592	37 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.1	47.7	46.1	8.9	10.0	No	No	No	No
1593	41 CHURCH STREET SINGLETON	Residential	55	50	39.3	36.4	50.0	48.4	10.7	12.0	No	No	Yes	Yes
1594	35 CHURCH STREET SINGLETON	Residential	55	50	38.7	36.1	47.1	45.5	8.4	9.4	No	No	No	No
1595	28 VICTORIA STREET GLENRIDDING	Residential	55	50	38.4	35.6	52.6	51.0	14.2	15.4	Yes	No	Yes	Yes
1597	30 CARRINGTON STREET GLENRIDDING	Residential	55	50	39.3	36.5	57.0	55.4	17.7	18.9	Yes	Yes	Yes	Yes
1598	17 KELSO STREET SINGLETON	Residential	55	50	39.4	36.9	46.7	45.1	7.3	8.2	No	No	No	No
1599	27 VICTORIA STREET GLENRIDDING	Residential	55	50	35.7	32.9	51.5	49.9	15.8	17.0	No	No	Yes	Yes
1600	8 ANDREW STREET SINGLETON	Residential	55	50	39.9	37.3	47.6	46.0	7.7	8.7	No	No	No	No
1601	26 VICTORIA STREET GLENRIDDING	Residential	55	50	39.3	36.5	52.8	51.2	13.5	14.7	Yes	No	Yes	Yes
1602	6 ANDREW STREET SINGLETON	Residential	55	50	39.1	36.5	47.4	45.8	8.3	9.3	No	No	No	No
1603	1 ANDREW STREET SINGLETON	Residential	55	50	39.1	36.5	49.4	47.8	10.3	11.3	No	No	No	No
1605	15 KELSO STREET SINGLETON	Residential	55	50	39.2	36.6	47.0	45.4	7.8	8.8	No	No	No	No
1606	25 VICTORIA STREET GLENRIDDING	Residential	55	50	40.0	37.2	52.5	50.9	12.5	13.7	Yes	No	Yes	Yes
1607	13 KELSO STREET SINGLETON	Residential	55	50	38.5	35.9	47.4	45.8	8.9	9.9	No	No	No	No
1608	11 KELSO STREET SINGLETON	Residential	55	50	39.1	36.5	47.5	45.9	8.4	9.4	No	No	No	No
1609	23 VICTORIA STREET GLENRIDDING	Residential	55	50	39.8	37.1	52.3	50.7	12.5	13.6	Yes	No	Yes	Yes
1610	4 ANDREW STREET SINGLETON	Residential	55	50	39.0	36.4	48.2	46.6	9.2	10.2	No	No	No	No
1611	9 KELSO STREET SINGLETON	Residential	55	50	38.6	36.0	47.1	45.5	8.5	9.5	No	No	No	No
1614	7 KELSO STREET SINGLETON	Residential	55	50	39.3	36.7	47.6	46.0	8.3	9.3	No	No	No	No
1615	2 ANDREW STREET SINGLETON	Residential	55	50	38.4	35.8	48.3	46.7	9.9	10.9	No	No	No	No
1616	5 KELSO STREET SINGLETON	Residential	55	50	40.2	37.6	48.0	46.4	7.8	8.8	No	No	No	No
1620	3 KELSO STREET SINGLETON	Residential	55	50	39.7	37.1	47.5	45.9	7.8	8.8	No	No	No	No
1622	10 CROWN STREET GLENRIDDING	Residential	55	50	39.7	36.8	55.3	53.7	15.6	16.9	Yes	No	Yes	Yes
1623	35 CARRINGTON STREET GLENRIDDING	Residential	55	50	40.9	38.1	56.0	54.4	15.1	16.3	Yes	No	Yes	Yes
1626	48 ARMY CAMP ROAD GLENRIDDING	Residential	55	50	46.0	43.1	53.2	51.6	7.2	8.5	Yes	No	Yes	Yes
1626	48 ARMY CAMP ROAD GLENRIDDING*	Residential	55	50	39.9	37.2	51.2	49.6	11.3	12.4				
1630	8 KELSO STREET SINGLETON	Residential	55	50	39.5	36.9	47.6	46.0	8.1	9.1	No	No	No	No
1633	13 CROWN STREET GLENRIDDING	Residential	55	50	42.7	39.8	60.1	58.5	17.4	18.7	Yes	Yes	Yes	Yes
1634	19 VICTORIA STREET GLENRIDDING	Residential	55	50	38.9	36.1	51.3	49.7	12.4	13.6	No	No	Yes	Yes
1635	9 CROWN STREET GLENRIDDING	Residential	55	50	40.0	37.1	54.4	52.8	14.4	15.7	Yes	No	Yes	Yes
1636	33 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.0	39.1	57.0	55.4	15.0	16.3	Yes	Yes	Yes	Yes
1637	16 VICTORIA STREET GLENRIDDING	Residential	55	50	40.4	37.5	53.7	52.1	13.3	14.6	Yes	No	Yes	Yes
1638	9 ALBERT STREET SINGLETON	Residential	55	50	38.0	35.4	46.0	44.4	8.0	9.0	No	No	No	No
1639	16 ALBERT STREET SINGLETON	Residential	55	50	40.4	37.9	47.0	45.4	6.6	7.5	No	No	No	No
1640	18 VICTORIA STREET GLENRIDDING	Residential	55	50	40.9	38.1	52.1	50.5	11.2	12.4	Yes	No	Yes	Yes
1641	7 ALBERT STREET SINGLETON	Residential	55	50	38.8	36.1	47.0	45.4	8.2	9.3	No	No	No	No
1642	16 ALBERT STREET SINGLETON	Residential	55	50	40.9	38.3	45.8	44.1	4.9	5.8	No	No	No	No
1647	5 ALBERT STREET SINGLETON	Residential	55	50	37.9	35.3	47.0	45.4	9.1	10.1	No	No	No	No
1648	29 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.5	39.7	57.2	55.6	14.7	15.9	Yes	Yes	Yes	Yes
1649	13 WYNYARD STREET SINGLETON	Residential	55	50	39.0	36.4	46.8	45.2	7.8	8.8	No	No	No	No
1650	3 ALBERT STREET SINGLETON	Residential	55	50	39.4	36.8	47.6	46.0	8.2	9.2	No	No	No	No
1651	13 WYNYARD STREET SINGLETON	Residential	55	50	40.3	37.4	46.9	45.2	6.6	7.8	No	No	No	No
1653	1A ALBERT STREET SINGLETON	Residential	55	50	39.7	37.0	47.8	46.2	8.1	9.2	No	No	No	No
1654	12 ALBERT STREET SINGLETON	Residential	55	50	39.7	37.1	47.4	45.8	7.7	8.7	No	No	No	No
1658	15 VICTORIA STREET GLENRIDDING	Residential	55	50	39.3	36.8	49.9	48.3	10.6	11.5	No	No	Yes	Yes
1658	15 VICTORIA STREET GLENRIDDING*	Residential	55	50	35.8	33.2	49.2	47.6	13.4	14.4				
1659	25 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.3	40.4	57.1	55.5	13.8	15.1	Yes	Yes	Yes	Yes
1660	10 ALBERT STREET SINGLETON	Residential	55	50	40.3	37.6	47.6	46.0	7.3	8.4	No	No	No	No
1662	1 ALBERT STREET SINGLETON	Residential	55	50	39.5	36.9	48.7	47.1	9.2	10.2	No	No	No	No
1664	8 ALBERT STREET SINGLETON	Residential	55	50	40.3	37.6	48.0	46.4	7.7	8.8	No	No	No	No
1666	4 KELSO STREET SINGLETON	Residential	55	50	39.1	36.5	48.5	46.8	9.4	10.3	No	No	No	No
1667	2 KELSO STREET SINGLETON	Residential	55	50	40.0	37.3	50.8	49.2	10.8	11.9	No	No	No	No
1668	3 RAWCLIFFE STREET SINGLETON	Residential	55	50	40.9	38.0	48.1	46.5	7.2	8.5	No	No	No	No
1671	21 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.7	40.8	56.6	55.0	12.9	14.2	Yes	Yes	Yes	Yes
1672	6 ALBERT STREET SINGLETON	Residential	55	50	40.2	37.6	48.1	46.5	7.9	8.9	No	No	No	No
1675	19 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.7	39.9	56.8	55.2	14.1	15.3	Yes	Yes	Yes	Yes
1677	15 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.0	42.2	59.0	57.4	14.0	15.2	Yes	Yes	Yes	Yes
1678	4 ALBERT STREET SINGLETON	Residential	55	50	41.0	38.4	49.1	47.5	8.1	9.1	No	No	No	No
1681	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	39.4	36.5	46.6	45.0	7.2	8.5	No	No	No	No
1682	9 WYNYARD STREET SINGLETON	Residential	55	50	37.6	34.9	47.7	46.1	10.1	11.2	No	No	No	No
1684	9 WYNYARD STREET SINGLETON	Residential	55	50	38.7	36.0	48.7	47.1	10.0	11.1	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1685	13 CARRINGTON STREET GLENRIDDING	Residential	55	50	47.2	44.3	58.4	56.8	11.2	12.5	Yes	Yes	Yes	Yes
1686	9 WYNYARD STREET SINGLETON	Residential	55	50	39.8	37.1	49.4	47.8	9.6	10.7	No	No	No	No
1687	14 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.8	40.0	55.0	53.4	12.2	13.4	Yes	No	Yes	Yes
1688	12 VICTORIA STREET GLENRIDDING	Residential	55	50	42.8	39.9	53.6	52.0	10.8	12.1	Yes	No	Yes	Yes
1689	9 WYNYARD STREET SINGLETON	Residential	55	50	41.0	38.3	50.0	48.4	9.0	10.1	No	No	No	No
1690	75 PUTTY ROAD GLENRIDDING	Residential	55	50	61.1	58.2	61.4	59.8	0.3	1.6	Yes	Yes	No	Yes
1692	12 CARRINGTON STREET GLENRIDDING	Residential	55	50	44.0	41.1	55.6	54.0	11.6	12.9	Yes	No	Yes	Yes
1693	32 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	56.2	53.3	61.1	59.7	4.9	6.4	Yes	Yes	Yes	Yes
1693	32 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	43.7	40.8	59.0	57.6	15.3	16.8				
1694	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	40.9	38.0	47.8	46.2	6.9	8.2	No	No	No	No
1695	10 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.4	40.5	55.8	54.2	12.4	13.7	Yes	No	Yes	Yes
1698	7 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.7	42.8	60.1	58.5	14.4	15.7	Yes	Yes	Yes	Yes
1700	69 BATHURST STREET SINGLETON	Residential	55	50	40.2	37.5	49.8	48.2	9.6	10.7	No	No	No	No
1701	8 CARRINGTON STREET GLENRIDDING	Residential	55	50	44.9	42.0	57.1	55.5	12.2	13.5	Yes	Yes	Yes	Yes
1703	5 CARRINGTON STREET GLENRIDDING	Residential	55	50	48.3	45.4	60.2	58.7	11.9	13.3	Yes	Yes	Yes	Yes
1705	8 MUNRO LANE SINGLETON	Residential	55	50	41.3	38.5	51.4	49.8	10.1	11.3	No	No	No	No
1706	6 CARRINGTON STREET GLENRIDDING	Residential	55	50	50.0	47.0	58.2	56.6	8.2	9.6	Yes	Yes	Yes	Yes
1706	6 CARRINGTON STREET GLENRIDDING*	Residential	55	50	38.9	36.1	52.6	51.0	13.7	14.9				
1708	3 CARRINGTON STREET GLENRIDDING	Residential	55	50	54.2	51.3	61.9	60.4	7.7	9.1	Yes	Yes	Yes	Yes
1708	3 CARRINGTON STREET GLENRIDDING*	Residential	55	50	42.6	39.7	53.4	51.9	10.8	12.2				
1709	7 WYNYARD STREET SINGLETON	Residential	55	50	39.6	36.9	49.6	48.0	10.0	11.1	No	No	No	No
1711	9 VICTORIA STREET GLENRIDDING	Residential	55	50	43.9	41.0	52.9	51.3	9.0	10.3	Yes	No	No	Yes
1713	7 WYNYARD STREET SINGLETON	Residential	55	50	40.3	37.6	49.1	47.5	8.8	9.9	No	No	No	No
1714	8 VICTORIA STREET GLENRIDDING	Residential	55	50	42.9	40.0	52.4	50.8	9.5	10.8	Yes	No	No	Yes
1715	67 BATHURST STREET SINGLETON	Residential	55	50	40.2	37.6	47.9	46.3	7.7	8.7	No	No	No	No
1717	5 WYNYARD STREET SINGLETON	Residential	55	50	41.1	38.4	50.4	48.8	9.3	10.4	No	No	No	No
1719	65 BATHURST STREET SINGLETON	Residential	55	50	41.2	38.4	47.0	45.4	5.8	7.0	No	No	No	No
1721	3 WYNYARD STREET SINGLETON	Residential	55	50	40.8	38.0	50.9	49.3	10.1	11.3	No	No	No	No
1722	7 VICTORIA STREET GLENRIDDING	Residential	55	50	44.9	42.0	53.4	51.8	8.5	9.8	Yes	No	No	Yes
1723	63 BATHURST STREET SINGLETON	Residential	55	50	41.4	38.6	47.6	45.9	6.2	7.3	No	No	No	No
1724	1 WYNYARD STREET SINGLETON	Residential	55	50	41.6	38.8	51.5	50.0	9.9	11.2	No	No	No	No
1725	8 WYNYARD STREET SINGLETON	Residential	55	50	40.4	37.7	48.3	46.7	7.9	9.0	No	No	No	No
1727	6 VICTORIA STREET GLENRIDDING	Residential	55	50	45.5	42.6	54.4	52.8	8.9	10.2	Yes	No	No	Yes
1728	61 BATHURST STREET SINGLETON	Residential	55	50	41.4	38.5	47.7	46.1	6.3	7.6	No	No	No	No
1729	6 WYNYARD STREET SINGLETON	Residential	55	50	40.5	37.8	48.7	47.1	8.2	9.3	No	No	No	No
1730	5 VICTORIA STREET GLENRIDDING	Residential	55	50	45.6	42.7	54.4	52.8	8.8	10.1	Yes	No	Yes	Yes
1730	5 VICTORIA STREET GLENRIDDING*	Residential	55	50	40.0	37.2	51.6	50.0	11.6	12.8				
1731	4 WYNYARD STREET SINGLETON	Residential	55	50	41.5	38.8	50.1	48.5	8.6	9.7	No	No	No	No
1732	59 BATHURST STREET SINGLETON	Residential	55	50	40.4	37.5	47.2	45.5	6.8	8.0	No	No	No	No
1733	4 VICTORIA STREET GLENRIDDING	Residential	55	50	44.0	41.1	53.2	51.6	9.2	10.5	Yes	No	No	Yes
1734	2 WYNYARD STREET SINGLETON	Residential	55	50	41.7	38.9	50.7	49.1	9.0	10.2	No	No	No	No
1735	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	48.0	45.1	56.0	54.4	8.0	9.3	Yes	No	Yes	Yes
1735	8 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	39.9	37.2	51.4	49.8	11.5	12.6				
1738	3 VICTORIA STREET GLENRIDDING	Residential	55	50	41.2	38.3	51.4	49.8	10.2	11.5	No	No	No	No
1739	76 PUTTY ROAD GLENRIDDING	Residential	55	50	43.1	40.2	53.6	51.9	10.5	11.7	Yes	No	Yes	Yes
1739	76 PUTTY ROAD GLENRIDDING*	Residential	55	50	38.2	35.3	50.2	48.5	12.0	13.2				
1740	9 PARK STREET SINGLETON	Residential	55	50	41.0	38.3	47.9	46.3	6.9	8.0	No	No	No	No
1741	5 FREDERICK STREET SINGLETON	Residential	55	50	41.4	38.6	50.8	49.2	9.4	10.6	No	No	No	No
1742	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	53.9	50.9	58.3	56.7	4.4	5.8	Yes	Yes	Yes	Yes
1742	8 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	40.5	37.8	52.1	50.5	11.6	12.7				
1744	2 VICTORIA STREET GLENRIDDING	Residential	55	50	45.8	42.9	51.8	50.2	6.0	7.3	No	No	No	No
1745	7 PARK STREET SINGLETON	Residential	55	50	40.1	37.5	47.6	45.9	7.5	8.4	No	No	No	No
1746	57 BATHURST STREET SINGLETON	Residential	55	50	41.4	38.8	47.7	46.1	6.3	7.3	No	No	No	No
1747	7 FREDERICK STREET SINGLETON	Residential	55	50	41.9	39.0	48.9	47.3	7.0	8.3	No	No	No	No
1748	5 PARK STREET SINGLETON	Residential	55	50	40.9	38.2	47.8	46.1	6.9	7.9	No	No	No	No
1750	1 VICTORIA STREET GLENRIDDING	Residential	55	50	49.6	46.7	52.0	50.4	2.4	3.7	No	No	No	No
1751	3 PARK STREET SINGLETON	Residential	55	50	37.8	35.1	46.5	44.9	8.7	9.8	No	No	No	No
1752	1 PARK STREET SINGLETON	Residential	55	50	42.2	39.3	48.7	47.0	6.5	7.7	No	No	No	No
1753	9 FREDERICK STREET SINGLETON	Residential	55	50	43.3	40.4	49.1	47.4	5.8	7.0	No	No	No	No
1756	55 BATHURST STREET SINGLETON	Residential	55	50	40.9	38.0	47.1	45.5	6.2	7.5	No	No	No	No
1757	12 PARK STREET SINGLETON	Residential	55	50	41.6	38.9	47.7	46.1	6.1	7.2	No	No	No	No
1758	2 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	53.9	51.0	56.2	54.5	2.3	3.5	Yes	Yes	No	Yes
1760	53 BATHURST STREET SINGLETON	Residential	55	50	41.1	38.2	46.6	45.0	5.5	6.8	No	No	No	No
1761	10 PARK STREET SINGLETON	Residential	55	50	41.3	38.6	47.6	46.0	6.3	7.4	No	No	No	No
1762	11 FREDERICK STREET SINGLETON	Residential	55	50	43.1	40.2	49.0	47.3	5.9	7.1	No	No	No	No
1763	9 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	59.2	56.3	60.1	58.5	0.9	2.2	Yes	Yes	No	Yes
1764	8 PARK STREET SINGLETON	Residential	55	50	41.3	38.6	47.5	45.9	6.2	7.3	No	No	No	No
1765	44 BATHURST STREET SINGLETON	Residential	55	50	41.2	38.6	47.4	45.8	6.2	7.2	No	No	No	No
1766	6 PARK STREET SINGLETON	Residential	55	50	41.6	38.8	47.8	46.2	6.2	7.4	No	No	No	No
1767	23 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	45.3	42.5	55.0	53.5	9.7	11.0	Yes	No	Yes	Yes
1767	23 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	43.9	41.0	54.8	53.2	10.9	12.2				
1768	51 BATHURST STREET SINGLETON	Residential	55	50	39.9	37.1	46.4	44.7	6.5	7.6	No	No	No	No
1769	4 PARK STREET SINGLETON	Residential	55	50	41.3	38.5	48.3	46.6	7.0	8.1	No	No	No	No
1772	7 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	60.0	57.1	60.2	58.5	0.2	1.4	Yes	Yes	No	Yes
1773	2 PARK STREET SINGLETON	Residential	55	50	42.5	39.6	48.1	46.5	5.6	6.9	No	No	No	No
1774	25 HARRIETT STREET SINGLETON	Residential	55	50	41.3	38.6	47.2	45.6	5.9	7.0	No	No	No	No
1776	23 HARRIETT STREET SINGLETON	Residential	55	50	41.1	38.4	47.3	45.7	6.2	7.3	No	No	No	No
1777	49 BATHURST STREET SINGLETON	Residential	55	50	41.2	38.6	46.6	45.0	5.4	6.4	No	No	No	No
1778	44 BATHURST STREET SINGLETON	Residential	55	50	41.9	39.3	47.5	45.8	5.6	6.5	No	No	No	No
1780	2 WALTER STREET SINGLETON	Residential	55	50	48.2	45.3	52.6	51.0	4.4	5.7	Yes	No	No	Yes
1782	21 HARRIETT STREET SINGLETON	Residential	55	50	41.0	38.3	47.1	45.5	6.1	7.2	No	No	No	No
1783	13A FREDERICK STREET SINGLETON	Residential	55	50	42.7	39.8	48.1	46.5	5.4	6.7	No	No	No	No
1784	30 HARRIETT STREET SINGLETON	Residential	55	50	41.3	38.6	46.8	45.2	5.5	6.6	No	No	No	No
1786	19 HARRIETT STREET SINGLETON	Residential	55	50	41.2	38.5	47.4	45.8	6.2	7.3	No	No	No	No
1788	28 HARRIETT STREET SINGLETON	Residential	55	50	40.8	38.1	46.5	44.9	5.7	6.8	No	No	No	No
1790	32 BATHURST STREET SINGLETON	Residential	55	50	41.8	38.9	46.6	44.9	4.8	6.0	No	No	No	No
1791	17 HARRIETT STREET SINGLETON	Residential	55	50	40.1	37.4	46.5	44.9	6.4	7.5	No	No	No	No
1792	26 HARRIETT STREET SINGLETON	Residential	55	50	40.3	37.6	46.2	44.6	5.9	7.0	No	No	No	No
1793	47 BATHURST STREET SINGLETON	Residential	55	50	41.4	38.8	46.2	44.6	4.8	5.8	No	No	No	No
1794	3 DUDDING STREET SINGLETON	Residential	55	50	45.6	42.7	51.0	49.3	5.4	6.6	No	No	No	No
1795	7 DUDDING STREET SINGLETON	Residential	55	50	44.6	41.8	49.9	48.3	5.3	6.5	No	No	No	No
1796	5 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	56.6	53.7	57.2	55.6	0.6	1.9	Yes	Yes	No	Yes
1797	6 DUDDING STREET SINGLETON	Residential	55	50	41.9	39.1	47.4	45.8	5.5	6.7	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1798	15 HARRIETT STREET SINGLETON	Residential	55	50	42.7	39.8	48.0	46.3	5.3	6.5	No	No	No	No
1799	1 DUDDING STREET SINGLETON	Residential	55	50	46.1	43.2	51.4	49.8	5.3	6.6	No	No	No	No
1800	5 DUDDING STREET SINGLETON	Residential	55	50	45.2	42.3	50.5	48.8	5.3	6.5	No	No	No	No
1801	4 DUDDING STREET SINGLETON	Residential	55	50	41.9	39.0	47.0	45.4	5.1	6.4	No	No	No	No
1802	24 HARRIETT STREET SINGLETON	Residential	55	50	41.4	38.7	46.6	45.0	5.2	6.3	No	No	No	No
1803	26 HARRIETT STREET SINGLETON	Residential	55	50	40.8	37.9	45.9	44.2	5.1	6.3	No	No	No	No
1805	22 HARRIETT STREET SINGLETON	Residential	55	50	41.8	39.1	46.8	45.2	5.0	6.1	No	No	No	No
1806	45 BATHURST STREET SINGLETON	Residential	55	50	40.7	37.9	46.2	44.5	5.5	6.6	No	No	No	No
1808	4A DUDDING STREET SINGLETON	Residential	55	50	42.6	39.8	47.4	45.7	4.8	5.9	No	No	No	No
1809	20 HARRIETT STREET SINGLETON	Residential	55	50	41.7	38.9	46.9	45.3	5.2	6.4	No	No	No	No
1810	26 HARRIETT STREET SINGLETON	Residential	55	50	41.8	38.9	47.0	45.3	5.2	6.4	No	No	No	No
1811	43 BATHURST STREET SINGLETON	Residential	55	50	40.6	37.8	45.9	44.2	5.3	6.4	No	No	No	No
1812	2 DUDDING STREET SINGLETON	Residential	55	50	43.6	40.8	48.1	46.4	4.5	5.6	No	No	No	No
1813	3 LESLEY STREET SINGLETON	Residential	55	50	45.3	42.4	48.6	46.9	3.3	4.5	No	No	No	No
1814	2A DUDDING STREET SINGLETON	Residential	55	50	43.8	41.0	49.2	47.6	5.4	6.6	No	No	No	No
1815	11 HARRIETT STREET SINGLETON	Residential	55	50	42.7	39.9	47.0	45.4	4.3	5.5	No	No	No	No
1816	13 HARRIETT STREET SINGLETON	Residential	55	50	41.8	39.0	46.6	44.9	4.8	5.9	No	No	No	No
1817	16 HARRIETT STREET SINGLETON	Residential	55	50	42.2	39.4	47.4	45.7	5.2	6.3	No	No	No	No
1818	18 HARRIETT STREET SINGLETON	Residential	55	50	40.9	38.1	46.5	44.8	5.6	6.7	No	No	No	No
1819	41 BATHURST STREET SINGLETON	Residential	55	50	39.9	37.3	43.9	42.2	4.0	4.9	No	No	No	No
1820	29 ARGYLE STREET SINGLETON	Residential	55	50	39.3	36.6	45.4	43.8	6.1	7.2	No	No	No	No
1821	9 HARRIETT STREET SINGLETON	Residential	55	50	44.4	41.5	48.2	46.5	3.8	5.0	No	No	No	No
1822	1 LESLEY STREET SINGLETON	Residential	55	50	44.2	41.3	48.1	46.5	3.9	5.2	No	No	No	No
1823	7 HARRIETT STREET SINGLETON	Residential	55	50	43.8	40.9	48.8	47.1	5.0	6.2	No	No	No	No
1824	8 FREDERICK STREET SINGLETON	Residential	55	50	42.7	39.9	47.5	45.9	4.8	6.0	No	No	No	No
1825	25 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.8	46.7	45.1	5.1	6.3	No	No	No	No
1826	27 ARGYLE STREET SINGLETON	Residential	55	50	40.3	37.6	46.0	44.3	5.7	6.7	No	No	No	No
1827	5 HARRIETT STREET SINGLETON	Residential	55	50	42.7	39.8	47.3	45.6	4.6	5.8	No	No	No	No
1828	10 FREDERICK STREET SINGLETON	Residential	55	50	43.2	40.3	47.2	45.6	4.0	5.3	No	No	No	No
1829	12 HARRIETT STREET SINGLETON	Residential	55	50	43.0	40.2	47.3	45.7	4.3	5.5	No	No	No	No
1830	32 ARGYLE STREET SINGLETON	Residential	55	50	41.2	38.5	45.5	43.8	4.3	5.3	No	No	No	No
1831	23 ARGYLE STREET SINGLETON	Residential	55	50	41.2	38.5	46.9	45.2	5.7	6.7	No	No	No	No
1832	15 FREDERICK STREET SINGLETON	Residential	55	50	41.8	38.9	46.5	44.8	4.7	5.9	No	No	No	No
1834	3 HARRIETT STREET SINGLETON	Residential	55	50	42.5	39.6	47.2	45.6	4.7	6.0	No	No	No	No
1835	10 HARRIETT STREET SINGLETON	Residential	55	50	43.9	41.1	47.8	46.1	3.9	5.0	No	No	No	No
1836	30 ARGYLE STREET SINGLETON	Residential	55	50	40.9	38.3	45.9	44.2	5.0	5.9	No	No	No	No
1837	1 HARRIETT STREET SINGLETON	Residential	55	50	40.8	38.0	45.6	43.9	4.8	5.9	No	No	No	No
1838	28 ARGYLE STREET SINGLETON	Residential	55	50	40.5	37.7	45.8	44.2	5.3	6.5	No	No	No	No
1839	21 ARGYLE STREET SINGLETON	Residential	55	50	39.6	36.8	46.3	44.7	6.7	7.9	No	No	No	No
1841	12 FREDERICK STREET SINGLETON	Residential	55	50	44.1	41.2	47.9	46.2	3.8	5.0	No	No	No	No
1842	8 HARRIETT STREET SINGLETON	Residential	55	50	44.2	41.4	48.4	46.8	4.2	5.4	No	No	No	No
1843	19 ARGYLE STREET SINGLETON	Residential	55	50	40.7	38.0	46.3	44.6	5.6	6.6	No	No	No	No
1844	24 ARGYLE STREET SINGLETON	Residential	55	50	41.0	38.3	46.5	44.9	5.5	6.6	No	No	No	No
1845	26 ARGYLE STREET SINGLETON	Residential	55	50	40.9	38.2	46.3	44.6	5.4	6.4	No	No	No	No
1846	17 ARGYLE STREET SINGLETON	Residential	55	50	41.3	38.6	46.4	44.7	5.1	6.1	No	No	No	No
1847	15 ARGYLE STREET SINGLETON	Residential	55	50	43.3	40.4	47.4	45.8	4.1	5.4	No	No	No	No
1848	14 FREDERICK STREET SINGLETON	Residential	55	50	44.2	41.3	47.8	46.2	3.6	4.9	No	No	No	No
1849	6 HARRIETT STREET SINGLETON	Residential	55	50	44.4	41.6	48.5	46.9	4.1	5.3	No	No	No	No
1850	4 HARRIETT STREET SINGLETON	Residential	55	50	43.7	40.8	47.7	46.0	4.0	5.2	No	No	No	No
1851	22 ARGYLE STREET SINGLETON	Residential	55	50	42.3	39.4	46.7	45.1	4.4	5.7	No	No	No	No
1853	13 ARGYLE STREET SINGLETON	Residential	55	50	41.4	38.6	46.1	44.5	4.7	5.9	No	No	No	No
1854	20 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.9	46.7	45.1	5.1	6.2	No	No	No	No
1856	9 ARGYLE STREET SINGLETON	Residential	55	50	44.8	42.0	48.7	47.1	3.9	5.1	No	No	No	No
1857	11 ARGYLE STREET SINGLETON	Residential	55	50	43.1	40.2	47.4	45.8	4.3	5.6	No	No	No	No
1858	18 ARGYLE STREET SINGLETON	Residential	55	50	41.7	38.9	46.7	45.1	5.0	6.2	No	No	No	No
1859	16 ARGYLE STREET SINGLETON	Residential	55	50	43.4	40.5	47.2	45.5	3.8	5.0	No	No	No	No
1861	7 ARGYLE STREET SINGLETON	Residential	55	50	45.4	42.6	49.2	47.5	3.8	4.9	No	No	No	No
1862	25 GAS STREET SINGLETON	Residential	55	50	42.4	39.7	46.9	45.3	4.5	5.6	No	No	No	No
1864	14 ARGYLE STREET SINGLETON	Residential	55	50	42.2	39.4	46.8	45.1	4.6	5.7	No	No	No	No
1865	5 ARGYLE STREET SINGLETON	Residential	55	50	46.2	43.4	49.6	47.9	3.4	4.5	No	No	No	No
1866	16 ARGYLE STREET SINGLETON	Residential	55	50	43.0	40.1	47.0	45.3	4.0	5.2	No	No	No	No
1867	12 ARGYLE STREET SINGLETON	Residential	55	50	42.5	39.7	46.9	45.2	4.4	5.5	No	No	No	No
1869	3 ARGYLE STREET SINGLETON	Residential	55	50	48.0	45.1	49.9	48.3	1.9	3.2	No	No	No	No
1870	19 GAS STREET SINGLETON	Residential	55	50	41.7	39.0	46.6	45.0	4.9	6.0	No	No	No	No
1871	21 GAS STREET SINGLETON	Residential	55	50	40.5	37.9	45.4	43.7	4.9	5.8	No	No	No	No
1873	10 ARGYLE STREET SINGLETON	Residential	55	50	44.1	41.1	47.0	45.3	2.9	4.2	No	No	No	No
1874	8 ARGYLE STREET SINGLETON	Residential	55	50	42.9	40.1	47.1	45.4	4.2	5.3	No	No	No	No
1875	17 FREDERICK STREET SINGLETON	Residential	55	50	43.9	40.9	47.4	45.8	3.5	4.9	No	No	No	No
1876	17 GAS STREET SINGLETON	Residential	55	50	39.8	37.0	45.8	44.2	6.0	7.2	No	No	No	No
1881	6 ARGYLE STREET SINGLETON	Residential	55	50	43.4	40.6	47.3	45.6	3.9	5.0	No	No	No	No
1882	4 ARGYLE STREET SINGLETON	Residential	55	50	44.8	42.0	48.3	46.6	3.5	4.6	No	No	No	No
1884	15 GAS STREET SINGLETON	Residential	55	50	41.7	39.0	46.5	44.9	4.8	5.9	No	No	No	No
1885	22-26 JOHN STREET SINGLETON	Residential	55	50	60.6	57.6	58.7	57.0	-1.9	-0.6	No	No	No	No
1886	2 ARGYLE STREET SINGLETON	Residential	55	50	46.0	43.1	48.2	46.6	2.2	3.5	No	No	No	No
1887	12A GAS STREET SINGLETON	Residential	55	50	45.7	42.8	47.1	45.4	1.4	2.6	No	No	No	No
1888	13 GAS STREET SINGLETON	Residential	55	50	41.4	38.6	46.6	45.0	5.2	6.4	No	No	No	No
1889	28 JOHN STREET SINGLETON	Residential	55	50	59.3	56.4	57.6	55.9	-1.7	-0.5	No	No	No	No
1890	7 MARY STREET SINGLETON	Residential	55	50	62.0	59.1	59.6	57.9	-2.4	-1.2	No	No	No	No
1891	11 GAS STREET SINGLETON	Residential	55	50	44.6	41.7	47.0	45.4	2.4	3.7	No	No	No	No
1892	9 MARY STREET SINGLETON	Residential	55	50	56.4	53.5	55.8	54.1	-0.6	0.6	No	No	No	No
1895	10 GAS STREET SINGLETON	Residential	55	50	41.8	39.0	46.3	44.6	4.5	5.6	No	No	No	No
1896	11 MARY STREET SINGLETON	Residential	55	50	52.9	50.0	53.9	52.2	1.0	2.2	Yes	No	No	Yes
1897	8 GAS STREET SINGLETON	Residential	55	50	42.1	39.3	46.2	44.6	4.1	5.3	No	No	No	No
1898	9 GAS STREET SINGLETON	Residential	55	50	47.5	44.6	47.7	45.9	0.2	1.3	No	No	No	No
1899	30 JOHN STREET SINGLETON	Residential	55	50	66.2	63.3	63.9	62.3	-2.3	-1.0	No	No	No	No
1900	13 MARY STREET SINGLETON	Residential	55	50	51.5	48.6	53.5	51.9	2.0	3.3	Yes	No	Yes	Yes
1900	13 MARY STREET SINGLETON*	Residential	55	50	38.5	35.6	50.7	49.1	12.2	13.5				
1901	7 GAS STREET SINGLETON	Residential	55	50	46.4	43.4	47.9	46.1	1.5	2.7	No	No	No	No
1902	6 GAS STREET SINGLETON	Residential	55	50	46.1	43.2	48.2	46.6	2.1	3.4	No	No	No	No
1906	9 RYAN AVENUE SINGLETON	Residential	55	50	61.7	58.8	59.4	57.8	-2.3	-1.0	No	No	No	No
1910	11 RYAN AVENUE SINGLETON	Residential	55	50	55.2	52.3	54.0	52.3	-1.2	0.0	No	No	No	No
1913	53 JOHN STREET SINGLETON	Residential	55	50	50.1	47.2	49.0	47.3	-1.1	0.1	No	No	No	No
1914	2 RYAN AVENUE SINGLETON	Residential	55	50	59.8	56.9	57.7	56.1	-2.1	-0.8	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1917	4 RYAN AVENUE SINGLETON	Residential	55	50	54.0	51.1	53.6	52.0	-0.4	0.9	No	No	No	No
1918	6 RYAN AVENUE SINGLETON	Residential	55	50	51.3	48.4	52.1	50.4	0.8	2.0	No	No	No	No
1919	59 JOHN STREET SINGLETON	Residential	55	50	52.4	49.5	51.0	49.3	-1.4	-0.2	No	No	No	No
1920	59 JOHN STREET SINGLETON	Residential	55	50	68.2	65.3	66.0	64.4	-2.2	-0.9	No	No	No	No
1931	48 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.5	37.6	58.6	57.0	18.1	19.4	Yes	Yes	Yes	Yes
1932	2 NOBLE CLOSE DARLINGTON	Residential	55	50	40.8	37.7	58.9	57.3	18.1	19.6	Yes	Yes	Yes	Yes
1933	3 NOBLE CLOSE DARLINGTON	Residential	55	50	44.0	40.8	62.0	60.3	18.0	19.5	Yes	Yes	Yes	Yes
1934	46 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.1	38.2	53.5	51.8	12.4	13.6	Yes	No	Yes	Yes
1935	4 NOBLE CLOSE DARLINGTON	Residential	55	50	46.4	42.7	60.3	58.6	13.9	15.9	Yes	Yes	Yes	Yes
1936	6 NOBLE CLOSE DARLINGTON	Residential	55	50	42.6	39.4	53.9	52.2	11.3	12.8	Yes	No	Yes	Yes
1937	5 NOBLE CLOSE DARLINGTON	Residential	55	50	46.1	42.4	58.1	56.4	12.0	14.0	Yes	Yes	Yes	Yes
1938	44 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.4	41.7	50.2	48.3	4.8	6.6	No	No	Yes	Yes
1938	44 SIMPSON TERRACE DARLINGTON*	Residential	55	50	39.9	36.7	51.3	49.6	11.4	12.9				
1940	3 SEVER CLOSE DARLINGTON	Residential	55	50	41.8	38.7	53.8	52.1	12.0	13.4	Yes	No	Yes	Yes
1941	2 SEVER CLOSE DARLINGTON	Residential	55	50	45.4	41.8	52.7	50.9	7.3	9.1	Yes	No	Yes	Yes
1941	2 SEVER CLOSE DARLINGTON*	Residential	55	50	38.2	35.2	51.4	49.8	13.2	14.6				
1942	4 SEVER CLOSE DARLINGTON	Residential	55	50	46.0	42.2	58.0	56.4	12.0	14.2	Yes	Yes	Yes	Yes
1943	40 SIMPSON TERRACE DARLINGTON	Residential	55	50	39.4	36.5	51.5	49.8	12.1	13.3	No	No	Yes	Yes
1944	5 SEVER CLOSE DARLINGTON	Residential	55	50	45.8	42.1	57.2	55.5	11.4	13.4	Yes	Yes	Yes	Yes
1945	7 SEVER CLOSE DARLINGTON	Residential	55	50	45.2	41.7	53.2	51.5	8.0	9.8	Yes	No	Yes	Yes
1945	7 SEVER CLOSE DARLINGTON*	Residential	55	50	39.2	36.2	50.8	49.1	11.6	12.9				
1946	8 SEVER CLOSE DARLINGTON	Residential	55	50	45.8	42.1	53.0	51.3	7.2	9.2	Yes	No	Yes	Yes
1946	8 SEVER CLOSE DARLINGTON*	Residential	55	50	38.1	35.0	50.0	48.3	11.9	13.3				
1947	6 SEVER CLOSE DARLINGTON	Residential	55	50	45.5	41.8	54.2	52.4	8.7	10.6	Yes	No	Yes	Yes
1947	6 SEVER CLOSE DARLINGTON*	Residential	55	50	38.0	34.9	50.2	48.5	12.2	13.6				
1948	38 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.2	38.1	49.4	47.6	8.2	9.5	No	No	No	No
1949	36 SIMPSON TERRACE DARLINGTON	Residential	55	50	46.3	43.4	50.5	48.8	4.2	5.4	No	No	No	No
1950	3 BUTTON CLOSE DARLINGTON	Residential	55	50	41.7	38.6	49.3	47.5	7.6	8.9	No	No	Yes	Yes
1950	3 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.3	32.2	47.9	46.2	12.6	14.0				
1951	2 BUTTON CLOSE DARLINGTON	Residential	55	50	39.7	36.6	53.0	51.4	13.3	14.8	Yes	No	Yes	Yes
1952	4 BUTTON CLOSE DARLINGTON	Residential	55	50	40.8	37.7	50.9	49.2	10.1	11.5	No	No	Yes	Yes
1952	4 BUTTON CLOSE DARLINGTON*	Residential	55	50	37.7	34.5	50.9	49.2	13.2	14.7				
1953	5 BUTTON CLOSE DARLINGTON	Residential	55	50	41.8	38.6	51.2	49.4	9.4	10.8	No	No	Yes	Yes
1953	5 BUTTON CLOSE DARLINGTON*	Residential	55	50	38.1	35.1	49.4	47.7	11.3	12.6				
1954	34 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.4	37.4	47.8	46.1	7.4	8.7	No	No	No	No
1955	9 BUTTON CLOSE DARLINGTON	Residential	55	50	40.1	37.1	51.2	49.6	11.1	12.5	No	No	Yes	Yes
1956	29 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.5	37.3	48.9	47.2	8.4	9.9	No	No	Yes	Yes
1956	29 SIMPSON TERRACE DARLINGTON*	Residential	55	50	38.1	35.1	48.9	47.2	10.8	12.1				
1957	6 BUTTON CLOSE DARLINGTON	Residential	55	50	45.5	41.9	55.0	53.3	9.5	11.4	Yes	No	Yes	Yes
1957	6 BUTTON CLOSE DARLINGTON*	Residential	55	50	40.0	36.9	54.5	52.9	14.5	16.0				
1958	8 BUTTON CLOSE DARLINGTON	Residential	55	50	39.7	36.7	51.1	49.5	11.4	12.8	No	No	Yes	Yes
1959	7 BUTTON CLOSE DARLINGTON	Residential	55	50	45.5	41.9	54.0	52.2	8.5	10.3	Yes	No	Yes	Yes
1959	7 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.7	32.6	47.6	45.9	11.9	13.3				
1960	32 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.8	37.6	48.4	46.6	7.6	9.0	No	No	No	No
1961	11 GRAINGER CRESCENT DARLINGTON	Residential	55	50	43.2	40.0	50.9	49.2	7.7	9.2	No	No	No	No
1963	27 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.5	38.4	48.0	46.3	6.5	7.9	No	No	No	No
1964	30 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.3	38.1	48.2	46.4	6.9	8.3	No	No	No	No
1965	9 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.4	45.6	50.0	48.2	1.6	2.6	No	No	No	No
1966	7 ELLIOT CLOSE DARLINGTON	Residential	55	50	41.1	38.0	50.3	48.6	9.2	10.6	No	No	No	No
1968	8 ELLIOT CLOSE DARLINGTON	Residential	55	50	38.9	35.8	53.5	51.8	14.6	16.0	Yes	No	Yes	Yes
1969	25 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.9	40.7	49.0	47.2	5.1	6.5	No	No	No	No
1970	6 ELLIOT CLOSE DARLINGTON	Residential	55	50	42.9	39.8	50.2	48.4	7.3	8.6	No	No	No	No
1971	28 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.3	38.2	47.9	46.1	6.6	7.9	No	No	No	No
1972	5 ELLIOT CLOSE DARLINGTON	Residential	55	50	41.8	38.7	50.5	48.7	8.7	10.0	No	No	No	No
1973	26 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.9	38.8	47.8	46.0	5.9	7.2	No	No	No	No
1974	9 ELLIOT CLOSE DARLINGTON	Residential	55	50	45.6	42.2	55.6	53.9	10.0	11.7	Yes	No	Yes	Yes
1974	9 ELLIOT CLOSE DARLINGTON*	Residential	55	50	41.1	38.1	54.8	53.1	13.7	15.0				
1975	36 GRAINGER CRESCENT DARLINGTON	Residential	55	50	41.8	38.8	48.7	47.0	6.9	8.2	No	No	No	No
1976	24 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.6	38.4	48.0	46.2	6.4	7.8	No	No	No	No
1977	23 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.5	40.3	49.5	47.7	6.0	7.4	No	No	No	No
1978	10 ELLIOT CLOSE DARLINGTON	Residential	55	50	45.9	42.5	55.5	53.8	9.6	11.3	Yes	No	No	Yes
1979	4 ELLIOT CLOSE DARLINGTON	Residential	55	50	40.9	37.9	50.9	49.2	10.0	11.3	No	No	No	No
1980	34 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.8	45.9	48.6	46.7	-0.2	0.8	No	No	No	No
1981	32 GRAINGER CRESCENT DARLINGTON	Residential	55	50	49.9	47.1	49.6	47.7	-0.3	0.6	No	No	No	No
1982	11 ELLIOT CLOSE DARLINGTON	Residential	55	50	46.7	43.3	55.7	54.0	9.0	10.7	Yes	No	No	Yes
1983	3 ELLIOT CLOSE DARLINGTON	Residential	55	50	43.4	40.1	50.5	48.8	7.1	8.7	No	No	No	No
1984	22 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.8	38.8	48.4	46.7	6.6	7.9	No	No	No	No
1985	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.4	47.5	49.5	47.5	-0.9	0.0	No	No	No	No
1986	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	47.6	44.7	48.4	46.5	0.8	1.8	No	No	No	No
1987	21 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.7	39.7	50.1	48.3	7.4	8.6	No	No	No	No
1988	12 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.4	43.9	55.6	53.9	8.2	10.0	Yes	No	Yes	Yes
1988	12 ELLIOT CLOSE DARLINGTON*	Residential	55	50	39.9	36.8	54.5	52.9	14.6	16.1				
1989	2 ELLIOT CLOSE DARLINGTON	Residential	55	50	44.6	41.3	50.6	48.8	6.0	7.5	No	No	No	No
1990	20 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.5	37.5	48.1	46.4	7.6	8.9	No	No	No	No
1991	28 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.7	47.8	50.0	48.0	-0.7	0.2	No	No	No	No
1992	4 HALLETT PLACE DARLINGTON	Residential	55	50	41.6	38.5	48.6	46.8	7.0	8.3	No	No	No	No
1993	18 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.9	38.9	48.2	46.4	6.3	7.5	No	No	No	No
1994	3 HALLETT PLACE DARLINGTON	Residential	55	50	45.9	42.8	48.1	46.2	2.2	3.4	No	No	No	No
1995	13 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.8	44.3	55.5	53.7	7.7	9.4	Yes	No	Yes	Yes
1995	13 ELLIOT CLOSE DARLINGTON*	Residential	55	50	38.9	35.9	51.0	49.4	12.1	13.5				
1996	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.4	41.2	50.3	48.5	5.9	7.3	No	No	No	No
1997	5 HALLETT PLACE DARLINGTON	Residential	55	50	44.4	41.3	49.3	47.5	4.9	6.2	No	No	No	No
1998	19 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.7	40.7	49.8	48.0	6.1	7.3	No	No	No	No
1999	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.2	45.9	53.5	51.5	4.3	5.6	Yes	No	No	Yes
2000	2 HALLETT PLACE DARLINGTON	Residential	55	50	46.7	43.3	48.5	46.6	1.8	3.3	No	No	No	No
2001	17 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.1	40.1	49.7	47.9	6.6	7.8	No	No	No	No
2002	26 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.0	47.1	49.1	47.2	-0.9	0.1	No	No	No	No
2003	14 ELLIOT CLOSE DARLINGTON	Residential	55	50	50.2	46.7	57.7	55.9	7.5	9.2	Yes	Yes	Yes	Yes
2003	14 ELLIOT CLOSE DARLINGTON*	Residential	55	50	37.4	34.5	49.0	47.4	11.6	12.9				
2004	15 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.5	39.5	49.3	47.4	6.8	7.9	No	No	No	No
2005	7 GRAINGER CRESCENT DARLINGTON	Residential	55	50	54.5	51.6	51.6	49.4	-2.9	-2.2	No	No	No	No
2006	6 HALLETT PLACE DARLINGTON	Residential	55	50	43.6	40.5	49.4	47.6	5.8	7.1	No	No	No	No
2007	15 ELLIOT CLOSE DARLINGTON	Residential	55	50	49.0	45.5	55.5	53.6	6.5	8.1	Yes	No	Yes	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2007	15 ELLIOT CLOSE DARLINGTON*	Residential	55	50	40.7	37.6	53.5	51.8	12.8	14.2				
2008	7 HALLETT PLACE DARLINGTON	Residential	55	50	46.8	43.5	48.4	46.5	1.6	3.0	No	No	No	No
2009	24 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.6	45.7	48.6	46.7	0.0	1.0	No	No	No	No
2010	17 HALLETT PLACE DARLINGTON	Residential	55	50	46.2	43.1	48.2	46.2	2.0	3.1	No	No	No	No
2011	13 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.0	41.0	49.5	47.7	5.5	6.7	No	No	No	No
2012	7 MILLARD CLOSE DARLINGTON	Residential	55	50	45.0	41.9	49.8	47.9	4.8	6.0	No	No	No	No
2013	14 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.7	45.2	54.9	53.0	6.2	7.8	Yes	No	No	Yes
2014	5 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.6	57.7	57.1	54.8	-3.5	-2.9	No	No	No	No
2015	11 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.1	41.1	50.1	48.2	6.0	7.1	No	No	No	No
2016	22 GRAINGER CRESCENT DARLINGTON	Residential	55	50	53.6	50.8	50.6	48.4	-3.0	-2.4	No	No	No	No
2017	8 HALLETT PLACE DARLINGTON	Residential	55	50	48.0	44.7	49.2	47.2	1.2	2.5	No	No	No	No
2018	16 HALLETT PLACE DARLINGTON	Residential	55	50	46.9	43.6	48.8	46.9	1.9	3.3	No	No	No	No
2019	6 MILLARD CLOSE DARLINGTON	Residential	55	50	46.3	43.2	49.0	47.0	2.7	3.8	No	No	No	No
2020	8 MILLARD CLOSE DARLINGTON	Residential	55	50	44.4	41.3	49.4	47.6	5.0	6.3	No	No	No	No
2021	12 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.3	42.2	53.7	51.9	8.4	9.7	Yes	No	No	Yes
2022	9 HALLETT PLACE DARLINGTON	Residential	55	50	48.4	45.0	49.8	47.8	1.4	2.8	No	No	No	No
2023	9 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.2	42.0	50.8	48.9	5.6	6.9	No	No	No	No
2024	15 HALLETT PLACE DARLINGTON	Residential	55	50	47.7	44.6	49.5	47.5	1.8	2.9	No	No	No	No
2025	20 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.3	53.4	52.7	50.5	-3.6	-2.9	No	No	No	No
2026	9 MILLARD CLOSE DARLINGTON	Residential	55	50	48.3	44.7	50.6	48.7	2.3	4.0	No	No	No	No
2028	5 MILLARD CLOSE DARLINGTON	Residential	55	50	47.2	43.9	50.1	48.2	2.9	4.3	No	No	No	No
2029	10 SIMPSON TERRACE DARLINGTON	Residential	55	50	47.7	44.4	54.3	52.5	6.6	8.1	Yes	No	No	Yes
2030	10 MILLARD CLOSE DARLINGTON	Residential	55	50	47.6	44.2	50.5	48.5	2.9	4.3	No	No	No	No
2031	10 HALLETT PLACE DARLINGTON	Residential	55	50	48.6	45.3	50.1	48.1	1.5	2.8	No	No	No	No
2032	7 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.1	44.7	51.2	49.3	3.1	4.6	No	No	No	No
2033	8 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.1	45.5	54.5	52.6	5.4	7.1	Yes	No	No	Yes
2034	18 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.6	54.7	54.1	51.8	-3.5	-2.9	No	No	No	No
2035	14 HALLETT PLACE DARLINGTON	Residential	55	50	48.9	45.8	50.2	48.1	1.3	2.3	No	No	No	No
2036	4 MILLARD CLOSE DARLINGTON	Residential	55	50	48.6	45.4	50.2	48.2	1.6	2.8	No	No	No	No
2037	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.9	46.5	51.2	49.2	1.3	2.7	No	No	No	No
2038	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.5	46.4	55.5	53.6	6.0	7.2	Yes	No	No	Yes
2039	11 MILLARD CLOSE DARLINGTON	Residential	55	50	48.3	45.1	50.3	48.3	2.0	3.2	No	No	No	No
2040	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.0	48.7	57.2	55.3	5.2	6.6	Yes	Yes	No	Yes
2041	13 HALLETT PLACE DARLINGTON	Residential	55	50	51.3	48.2	50.3	48.2	-1.0	0.0	No	No	No	No
2042	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.2	48.8	57.2	55.3	5.0	6.5	Yes	Yes	No	Yes
2043	3 MILLARD CLOSE DARLINGTON	Residential	55	50	52.9	49.7	51.6	49.5	-1.3	-0.2	No	No	No	No
2044	11 HALLETT PLACE DARLINGTON	Residential	55	50	50.8	47.7	50.6	48.5	-0.2	0.8	No	No	No	No
2045	16 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.2	55.3	54.7	52.4	-3.5	-2.9	No	No	No	No
2046	12 MILLARD CLOSE DARLINGTON	Residential	55	50	49.3	45.9	50.0	47.9	0.7	2.0	No	No	No	No
2047	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.2	48.9	57.2	55.3	5.0	6.4	Yes	Yes	No	Yes
2048	12 HALLETT PLACE DARLINGTON	Residential	55	50	51.4	48.4	50.4	48.3	-1.0	-0.1	No	No	No	No
2049	2 MILLARD CLOSE DARLINGTON	Residential	55	50	53.6	50.4	52.5	50.4	-1.1	0.0	No	No	No	No
2050	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	51.5	48.1	51.7	49.6	0.2	1.5	No	No	No	No
2051	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.3	48.9	57.1	55.2	4.8	6.3	Yes	Yes	Yes	Yes
2051	6 SIMPSON TERRACE DARLINGTON*	Residential	55	50	39.0	35.9	49.9	48.1	10.9	12.2				
2052	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.7	46.6	54.8	52.8	5.1	6.2	Yes	No	No	Yes
2053	13 MILLARD CLOSE DARLINGTON	Residential	55	50	51.2	48.1	50.9	48.7	-0.3	0.6	No	No	No	No
2054	6 SOLMAN LANE DARLINGTON	Residential	55	50	48.6	45.4	52.8	50.9	4.2	5.5	Yes	No	No	Yes
2055	14 GRAINGER CRESCENT DARLINGTON	Residential	55	50	59.6	56.7	56.1	53.8	-3.5	-2.9	No	No	No	No
2056	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.6	49.2	57.2	55.3	4.6	6.1	Yes	Yes	No	Yes
2058	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.5	49.1	57.1	55.2	4.6	6.1	Yes	Yes	No	Yes
2059	14 MILLARD CLOSE DARLINGTON	Residential	55	50	51.6	48.4	51.3	49.2	-0.3	0.8	No	No	No	No
2060	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	52.4	49.1	52.6	50.5	0.2	1.4	Yes	No	No	No
2061	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.7	49.3	57.1	55.1	4.4	5.8	Yes	Yes	No	Yes
2062	8 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.2	54.2	55.0	52.8	-2.2	-1.4	No	No	No	No
2063	1 MILLARD CLOSE DARLINGTON	Residential	55	50	56.7	53.7	54.9	52.8	-1.8	-0.9	Yes	No	No	No
2064	4 SOLMAN LANE DARLINGTON	Residential	55	50	49.3	46.2	53.1	51.1	3.8	4.9	Yes	No	No	Yes
2065	12 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.3	57.3	57.2	54.9	-3.1	-2.4	No	No	No	No
2066	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.9	46.8	54.8	52.8	4.9	6.0	Yes	No	No	Yes
2067	10 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.9	55.9	56.3	54.1	-2.6	-1.8	No	No	No	No
2068	15 MILLARD CLOSE DARLINGTON	Residential	55	50	56.2	53.1	54.5	52.3	-1.7	-0.8	Yes	No	No	No
2069	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.3	53.2	54.2	52.0	-2.1	-1.2	No	No	No	No
2070	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.4	53.3	54.6	52.4	-1.8	-0.9	Yes	No	No	No
2071	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	61.7	58.8	58.4	56.2	-3.3	-2.6	No	No	No	No
2072	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.2	49.9	57.0	55.0	3.8	5.1	Yes	Yes	No	Yes
2073	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.9	53.9	55.4	53.2	-1.5	-0.7	Yes	No	No	No
2074	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.8	53.7	55.1	52.9	-1.7	-0.8	Yes	No	No	No
2075	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.7	53.7	55.0	52.8	-1.7	-0.9	Yes	No	No	No
2076	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.8	53.7	55.1	52.9	-1.7	-0.8	Yes	No	No	No
2077	4 ALLEN COURT DARLINGTON	Residential	55	50	51.6	48.3	53.7	51.7	2.1	3.4	Yes	No	No	Yes
2078	3 ALLEN COURT DARLINGTON	Residential	55	50	53.7	50.4	53.8	51.7	0.1	1.3	Yes	No	No	No
2081	5 ALLEN COURT DARLINGTON	Residential	55	50	49.6	46.5	53.5	51.4	3.9	4.9	Yes	No	No	Yes
2082	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	59.9	57.0	57.0	54.8	-2.9	-2.2	No	No	No	No
2083	6 ALLEN COURT DARLINGTON	Residential	55	50	54.5	51.4	55.9	53.7	1.4	2.3	Yes	No	No	Yes
2084	10 ALLEN COURT DARLINGTON	Residential	55	50	57.1	54.1	55.9	53.7	-1.2	-0.4	Yes	No	No	No
2085	11 ALLEN COURT DARLINGTON	Residential	55	50	58.3	55.3	56.2	53.9	-2.1	-1.4	No	No	No	No
2086	7 ALLEN COURT DARLINGTON	Residential	55	50	55.5	52.4	56.1	53.9	0.6	1.5	Yes	No	No	No
2087	2 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	67.3	64.6	63.6	61.4	-3.7	-3.2	No	No	No	No
2088	9B ALLEN COURT DARLINGTON	Residential	55	50	63.2	60.2	60.3	58.0	-2.9	-2.2	No	No	No	No
2089	4 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	66.6	63.8	63.0	60.7	-3.6	-3.1	No	No	No	No
2090	1 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	60.7	57.9	57.1	54.8	-3.6	-3.1	No	No	No	No
2091	9 ALLEN COURT DARLINGTON	Residential	55	50	59.4	56.4	58.2	56.0	-1.2	-0.4	Yes	Yes	No	Yes
2092	8 ALLEN COURT DARLINGTON	Residential	55	50	59.5	56.5	58.5	56.4	-1.0	-0.1	Yes	Yes	No	Yes
2093	6 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	63.5	60.6	60.1	57.8	-3.4	-2.8	No	No	No	No
2094	3 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.2	55.4	54.8	52.6	-3.4	-2.8	No	No	No	No
2095	110 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	52.8	49.8	51.7	49.5	-1.1	-0.3	No	No	No	No
2096	108 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.8	51.3	49.1	-1.4	-0.7	No	No	No	No
2097	5 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	55.3	52.4	52.8	50.6	-2.5	-1.8	No	No	No	No
2098	8 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.6	58.7	58.4	56.1	-3.2	-2.6	No	No	No	No
2100	112 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.4	52.1	49.9	-1.2	-0.5	No	No	No	No
2101	114 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.4	52.1	49.9	-1.2	-0.5	No	No	No	No
2102	12 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.3	59.4	59.0	56.7	-3.3	-2.7	No	No	No	No
2103	10 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.5	59.6	59.2	56.9	-3.3	-2.7	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2104	14 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.6	59.8	59.4	57.2	-3.2	-2.6	No	No	No	No
2105	7-9 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.0	50.1	51.5	49.3	-1.5	-0.8	No	No	No	No
2106	116 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.3	52.0	49.8	-1.3	-0.5	No	No	No	No
2107	18 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.2	59.4	59.2	56.9	-3.0	-2.5	No	No	No	No
2108	16 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.1	58.7	56.5	-3.2	-2.6	No	No	No	No
2109	20 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.0	58.9	56.6	-3.0	-2.4	No	No	No	No
2110	118 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.0	50.0	51.8	49.6	-1.2	-0.4	No	No	No	No
2111	22 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.1	59.0	56.7	-2.9	-2.4	No	No	No	No
2112	120 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.8	51.7	49.5	-1.0	-0.3	No	No	No	No
2113	26 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.7	58.8	58.9	56.6	-2.8	-2.2	No	No	No	No
2114	24 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.4	58.6	58.5	56.3	-2.9	-2.3	No	No	No	No
2115	13 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.2	49.3	51.4	49.2	-0.8	-0.1	No	No	No	No
2116	11 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.9	50.0	51.6	49.4	-1.3	-0.6	No	No	No	No
2118	71 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.7	49.8	47.6	0.1	0.9	No	No	No	No
2119	69 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.8	46.8	49.7	47.6	-0.1	0.8	No	No	No	No
2120	15 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.7	51.1	48.9	-0.5	0.2	No	No	No	No
2121	30 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	60.9	58.1	58.5	56.3	-2.4	-1.8	No	No	No	No
2122	28 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	60.3	57.4	57.7	55.4	-2.6	-2.0	No	No	No	No
2124	17 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.7	51.6	49.4	0.0	0.7	No	No	No	No
2128	73 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.3	49.5	47.3	0.2	1.0	No	No	No	No
2129	19 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.1	52.0	49.8	-0.1	0.7	No	No	No	No
2131	34 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	56.9	54.0	55.4	53.2	-1.5	-0.8	Yes	No	No	No
2132	21 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.2	52.4	50.2	0.3	1.0	No	No	No	No
2133	75 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.8	49.7	47.5	0.8	1.7	No	No	No	No
2135	36 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.1	55.3	57.0	54.8	-1.1	-0.5	Yes	Yes	No	Yes
2136	40 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	59.4	56.5	58.5	56.3	-0.9	-0.2	Yes	Yes	No	Yes
2137	38 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.4	55.6	57.0	54.8	-1.4	-0.8	Yes	Yes	No	Yes
2138	23 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.5	49.5	52.9	50.7	0.4	1.2	Yes	No	No	No
2141	44 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.6	55.7	58.3	56.1	-0.3	0.4	Yes	Yes	No	Yes
2142	25 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.8	53.5	51.3	0.8	1.5	Yes	No	No	No
2143	42 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	57.2	54.3	57.3	55.1	0.1	0.8	Yes	Yes	No	Yes
2144	77 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	45.3	49.4	47.2	1.1	1.9	No	No	No	No
2145	46 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.3	55.4	58.5	56.4	0.2	1.0	Yes	Yes	No	Yes
2146	27 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.2	50.1	54.2	52.1	1.0	2.0	Yes	No	No	No
2147	79 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	45.1	49.8	47.6	1.6	2.5	No	No	No	No
2148	2 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	50.3	48.1	1.6	2.6	No	No	No	No
2149	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.6	50.5	55.3	53.2	1.7	2.7	Yes	No	No	Yes
2150	2 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	55.6	52.7	56.8	54.6	1.2	1.9	Yes	Yes	No	Yes
2151	2 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	46.4	49.6	47.4	0.2	1.0	No	No	No	No
2152	4 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	52.2	48.9	57.0	54.9	4.8	6.0	Yes	Yes	No	Yes
2153	81 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.9	48.9	46.8	1.0	1.9	No	No	No	No
2154	4 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	50.4	48.3	1.6	2.8	No	No	No	No
2155	31 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.6	53.1	50.9	2.5	3.3	Yes	No	No	Yes
2156	33 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.6	53.7	51.5	3.1	3.9	Yes	No	No	Yes
2157	5 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.6	49.0	46.9	0.4	1.3	No	No	No	No
2158	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.4	56.6	54.4	5.9	7.0	Yes	No	No	Yes
2159	35 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.6	54.6	52.4	3.0	3.8	Yes	No	No	Yes
2160	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.4	49.2	55.0	52.9	2.6	3.7	Yes	No	No	Yes
2161	1 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.5	53.3	51.1	1.7	2.6	Yes	No	No	Yes
2162	6 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.1	56.3	54.2	5.6	7.1	Yes	No	No	Yes
2163	1 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	46.2	48.9	46.8	-0.2	0.6	No	No	No	No
2164	4 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	45.0	49.2	47.1	1.0	2.1	No	No	No	No
2165	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.1	56.4	54.3	5.9	7.2	Yes	No	No	Yes
2166	6 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.2	49.9	47.8	1.5	2.6	No	No	No	No
2167	8 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.8	46.6	55.5	53.3	5.7	6.7	Yes	No	No	Yes
2168	2 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.4	48.0	54.9	52.7	3.5	4.7	Yes	No	No	Yes
2169	3 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.2	52.0	49.8	1.7	2.6	No	No	No	No
2170	1 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.6	56.2	54.1	6.2	7.5	Yes	No	No	Yes
2171	7 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.5	49.1	46.9	1.5	2.4	No	No	No	No
2172	9 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.6	45.3	49.6	47.4	1.0	2.1	No	No	No	No
2173	6 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.9	49.5	47.4	1.3	2.5	No	No	No	No
2174	10 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.9	56.5	54.3	6.2	7.4	Yes	No	No	Yes
2175	38 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	59.3	55.8	58.6	54.9	-0.7	-0.9	Yes	Yes	No	Yes
2176	5 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	47.0	51.7	49.6	1.5	2.6	No	No	No	No
2177	3 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.8	56.9	54.7	6.6	7.9	Yes	Yes	No	Yes
2178	9 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	50.3	48.2	1.6	2.7	No	No	No	No
2179	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	45.1	49.8	47.6	1.6	2.5	No	No	No	No
2180	16 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.8	48.6	54.4	52.2	2.6	3.6	Yes	No	No	Yes
2181	3 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.3	48.5	46.3	1.0	2.0	No	No	No	No
2182	7 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.0	48.0	53.9	51.7	2.9	3.7	Yes	No	No	Yes
2183	4 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.8	48.5	55.0	52.9	3.2	4.4	Yes	No	No	Yes
2186	12 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.2	57.6	55.4	6.8	8.2	Yes	Yes	No	Yes
2188	5 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.3	48.0	54.2	52.0	2.9	4.0	Yes	No	No	Yes
2189	7 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.1	44.8	49.3	47.1	1.2	2.3	No	No	No	No
2192	14 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.1	57.4	55.3	6.7	8.2	Yes	Yes	No	Yes
2194	6 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.5	48.2	54.9	52.8	3.4	4.6	Yes	No	No	Yes
2195	14 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.5	45.9	53.4	51.2	3.9	5.3	Yes	No	No	Yes
2196	5 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.7	56.4	54.2	6.2	7.5	Yes	No	No	Yes
2197	8 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	49.8	47.7	1.1	2.3	No	No	No	No
2198	11 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	50.2	48.1	1.4	2.6	No	No	No	No
2202	7 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.6	51.6	49.4	1.7	2.8	No	No	No	No
2203	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.9	49.5	47.4	1.3	2.5	No	No	No	No
2205	5 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	44.1	48.4	46.2	1.1	2.1	No	No	No	No
2206	3 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.2	46.9	53.5	51.4	3.3	4.5	Yes	No	No	Yes
2207	12 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.4	46.9	54.0	51.8	3.6	4.9	Yes	No	No	Yes
2208	9 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.7	51.6	49.4	1.6	2.7	No	No	No	No
2210	16 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.0	57.2	55.0	6.7	8.0	Yes	Yes	No	Yes
2211	7 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.1	56.1	54.0	5.6	6.9	Yes	No	No	Yes
2212	8 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.8	54.9	52.7	3.7	4.9	Yes	No	No	Yes
2213	10 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.9	45.6	50.5	48.3	1.6	2.7	No	No	No	No
2214	10 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	50.1	48.0	1.4	2.6	No	No	No	No
2215	13 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.7	50.2	48.1	1.1	2.4	No	No	No	No
2216	5 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.4	44.2	48.6	46.5	1.2	2.3	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2217	18 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.6	57.4	55.2	7.4	8.6	Yes	Yes	No	Yes
2218	1 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.8	46.4	53.6	51.5	3.8	5.1	Yes	No	No	Yes
2219	10 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.6	47.1	53.9	51.7	3.3	4.6	Yes	No	No	Yes
2220	7 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.9	48.1	46.0	1.0	2.1	No	No	No	No
2222	11 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.6	51.6	49.5	1.7	2.9	No	No	No	No
2223	15 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	50.3	48.2	1.5	2.7	No	No	No	No
2224	14 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.3	49.1	46.9	1.6	2.6	No	No	No	No
2225	10 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.3	55.0	52.8	3.4	4.5	Yes	No	No	Yes
2226	12 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.1	50.0	47.8	1.6	2.7	No	No	No	No
2227	9 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.8	55.5	53.3	5.2	6.5	Yes	No	No	Yes
2228	3 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.1	43.9	48.1	46.0	1.0	2.1	No	No	No	No
2230	20 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.5	56.9	54.7	6.8	8.2	Yes	Yes	No	Yes
2231	13 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.3	52.0	49.8	2.3	3.5	No	No	No	No
2232	8 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.4	46.9	53.7	51.5	3.3	4.6	Yes	No	No	Yes
2233	9 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.6	48.1	46.0	1.2	2.4	No	No	No	No
2234	8 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	50.5	48.3	1.8	2.9	No	No	No	No
2236	12 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.5	48.1	55.1	52.9	3.6	4.8	Yes	No	No	Yes
2237	14 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.7	49.8	47.6	1.9	2.9	No	No	No	No
2238	19 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.8	50.3	48.1	2.0	3.3	No	No	No	No
2239	6 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.3	45.0	50.1	48.0	1.8	3.0	No	No	No	No
2240	22 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.4	56.7	54.5	6.7	8.1	Yes	Yes	No	Yes
2241	17 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.8	48.6	46.4	2.0	3.6	No	No	No	No
2242	15 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.4	51.9	49.7	2.2	3.3	No	No	No	No
2243	6 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.7	46.4	53.2	51.0	3.5	4.6	Yes	No	No	Yes
2244	1 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.8	43.4	47.9	45.8	1.1	2.4	No	No	No	No
2245	11 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.2	47.6	45.5	1.1	2.3	No	No	No	No
2246	14 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.8	55.0	52.9	3.8	5.1	Yes	No	No	Yes
2247	16 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	49.7	47.6	1.6	3.0	No	No	No	No
2248	4 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.6	46.3	53.2	51.0	3.6	4.7	Yes	No	No	Yes
2249	17 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	48.6	55.0	52.8	3.0	4.2	Yes	No	No	Yes
2250	4 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.9	44.7	49.7	47.6	1.8	2.9	No	No	No	No
2251	24 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.0	56.4	54.2	6.7	8.2	Yes	No	No	Yes
2252	16 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	47.7	54.9	52.8	3.8	5.1	Yes	No	No	Yes
2253	2 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.4	46.2	53.2	51.1	3.8	4.9	Yes	No	No	Yes
2254	11 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.3	55.2	53.1	5.2	6.8	Yes	No	No	Yes
2255	18 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	49.8	47.7	1.6	3.0	No	No	No	No
2256	1 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	42.0	45.9	43.7	0.9	1.7	No	No	No	No
2257	11 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.6	47.4	45.3	0.5	1.7	No	No	No	No
2258	13 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.1	47.6	45.5	1.2	2.4	No	No	No	No
2259	3 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	42.3	46.5	44.4	1.2	2.1	No	No	No	No
2260	5 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.7	46.8	44.6	1.1	1.9	No	No	No	No
2261	26 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	45.9	55.9	53.7	6.3	7.8	Yes	No	No	Yes
2262	19 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	46.0	52.0	49.9	2.6	3.9	No	No	No	No
2263	20 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.8	49.2	47.0	1.8	3.2	No	No	No	No
2264	18 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.2	48.9	56.4	54.2	4.2	5.3	Yes	No	No	Yes
2265	2 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.4	49.3	47.2	1.5	2.8	No	No	No	No
2266	13 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.7	54.7	52.5	5.3	6.8	Yes	No	No	Yes
2267	20 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.9	50.2	48.1	1.9	3.2	No	No	No	No
2268	18 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.8	48.1	45.9	1.6	3.1	No	No	No	No
2269	21 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.5	45.9	52.2	50.0	2.7	4.1	No	No	No	No
2270	20 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.1	54.5	52.4	4.2	5.3	Yes	No	No	Yes
2271	28 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.5	55.5	53.3	5.5	6.8	Yes	No	No	Yes
2272	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.2	54.8	52.6	4.1	5.4	Yes	No	No	Yes
2273	23 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.2	52.4	50.2	2.7	4.0	No	No	No	No
2274	22 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.5	50.1	47.9	2.3	3.4	No	No	No	No
2275	15 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.4	54.4	52.2	5.2	6.8	Yes	No	No	Yes
2276	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.3	53.1	51.0	3.4	4.7	Yes	No	No	Yes
2277	22 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	50.0	47.8	1.8	3.1	No	No	No	No
2278	21 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	45.1	50.3	48.2	1.8	3.1	No	No	No	No
2279	1 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	66.0	62.4	62.3	60.4	-3.7	-2.0	No	No	No	No
2280	30 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.8	55.4	53.3	5.7	7.5	Yes	No	No	Yes
2281	24 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.3	49.8	47.6	2.1	3.3	No	No	No	No
2282	23 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.5	48.2	46.1	1.8	2.6	No	No	No	No
2283	25 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.9	52.4	50.2	3.0	4.3	No	No	No	No
2284	15 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.6	48.3	46.1	1.3	2.5	No	No	No	No
2285	2 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	42.4	46.8	44.6	1.4	2.2	No	No	No	No
2286	24 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.8	50.4	48.3	2.1	3.5	No	No	No	No
2287	24 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.5	54.4	52.2	4.4	5.7	Yes	No	No	Yes
2288	4 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.7	47.2	45.1	1.4	2.4	No	No	No	No
2289	6 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	43.2	47.9	45.7	1.7	2.5	No	No	No	No
2290	8 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	43.2	48.1	46.0	1.8	2.8	No	No	No	No
2291	10 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.5	48.4	46.3	1.9	2.8	No	No	No	No
2292	12 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	43.3	48.1	46.0	1.8	2.7	No	No	No	No
2293	25 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	49.9	47.8	1.7	3.1	No	No	No	No
2294	26 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.5	49.8	47.7	1.8	3.2	No	No	No	No
2295	17 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.8	48.5	46.3	1.4	2.5	No	No	No	No
2296	33 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.4	48.1	46.0	1.7	2.6	No	No	No	No
2297	26 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.4	46.8	55.3	53.1	4.9	6.3	Yes	No	No	Yes
2298	27 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.7	52.6	50.4	3.4	4.7	No	No	No	No
2299	32 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.3	55.0	52.8	5.8	7.5	Yes	No	No	Yes
2300	26 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	45.0	50.7	48.5	2.2	3.5	No	No	No	No
2301	28 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.2	49.3	47.2	1.7	3.0	No	No	No	No
2302	31 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.8	47.5	45.3	1.1	2.5	No	No	No	No
2303	3 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	58.5	54.5	55.4	53.5	-3.1	-1.0	No	No	No	No
2304	28 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.0	55.2	53.1	4.6	6.1	Yes	No	No	Yes
2305	27 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	50.0	47.9	1.9	3.3	No	No	No	No
2306	29 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	45.7	52.9	50.7	3.6	5.0	Yes	No	No	Yes
2307	5 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.9	51.9	54.1	51.9	-1.8	0.0	Yes	No	No	No
2309	19 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.7	48.5	46.3	1.4	2.6	No	No	No	No
2310	28 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.9	50.8	48.7	2.3	3.8	No	No	No	No
2311	30 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.0	49.2	47.0	1.7	3.0	No	No	No	No
2312	29 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.1	47.9	45.7	1.4	2.6	No	No	No	No
2313	30 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.6	54.9	52.7	4.8	6.1	Yes	No	No	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2314	31 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.5	45.9	53.1	50.9	3.6	5.0	Yes	No	No	Yes
2315	21 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.6	48.4	46.2	1.3	2.6	No	No	No	No
2316	25 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.8	47.4	45.2	1.4	2.4	No	No	No	No
2317	32 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.1	55.6	53.5	4.9	6.4	Yes	No	No	Yes
2319	32 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	43.2	47.9	45.8	1.6	2.6	No	No	No	No
2320	29 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	50.1	48.0	2.0	3.4	No	No	No	No
2321	30 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.9	50.9	48.7	2.5	3.8	No	No	No	No
2322	21 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	42.3	47.2	45.0	1.7	2.7	No	No	No	No
2323	27 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.0	47.8	45.6	1.4	2.6	No	No	No	No
2324	19 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.2	48.2	46.0	1.5	2.8	No	No	No	No
2325	23 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.9	46.4	44.2	1.3	2.3	No	No	No	No
2326	31 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.5	50.0	47.8	2.1	3.3	No	No	No	No
2327	33 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.0	53.3	51.2	3.6	5.2	Yes	No	No	Yes
2328	34 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.3	56.0	53.9	5.1	6.6	Yes	No	No	Yes
2329	23 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	48.6	46.4	1.4	2.7	No	No	No	No
2331	32 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.9	51.3	49.2	2.8	4.3	No	No	No	No
2333	35 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	46.0	53.4	51.3	3.8	5.3	Yes	No	No	Yes
2334	17 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	43.4	48.0	45.8	1.4	2.4	No	No	No	No
2335	33 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	49.6	47.4	2.4	3.7	No	No	No	No
2336	34 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	47.2	45.0	1.2	2.5	No	No	No	No
2337	52 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.3	47.7	45.5	0.9	2.2	No	No	No	No
2338	36 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.0	54.1	51.9	5.2	6.9	Yes	No	No	Yes
2339	37 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.9	53.3	51.2	3.9	5.3	Yes	No	No	Yes
2340	34 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.3	51.0	48.8	3.0	4.5	No	No	No	No
2341	15 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	42.0	47.8	45.6	2.6	3.6	No	No	No	No
2342	50 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.0	47.5	45.3	1.1	2.3	No	No	No	No
2344	39 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.6	53.3	51.1	4.2	5.5	Yes	No	No	Yes
2345	13 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.4	48.5	46.4	1.8	3.0	No	No	No	No
2346	41 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.6	54.0	51.8	4.6	6.2	Yes	No	No	Yes
2347	35 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.8	48.7	46.6	2.3	3.8	No	No	No	No
2348	48 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.8	47.4	45.3	1.1	2.5	No	No	No	No
2349	38 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.2	54.0	51.8	4.9	6.6	Yes	No	No	Yes
2351	46 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	42.1	46.8	44.6	1.4	2.5	No	No	No	No
2352	36 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.9	49.7	47.5	3.5	4.6	No	No	No	No
2353	17 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.3	52.5	50.4	4.4	6.1	No	No	No	No
2354	9 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.7	50.6	48.5	2.3	3.8	No	No	No	No
2355	34 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.4	48.3	46.2	1.4	2.8	No	No	No	No
2356	36 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.3	48.1	46.0	1.4	2.7	No	No	No	No
2357	38 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.9	47.8	45.6	1.6	2.7	No	No	No	No
2358	40 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	42.3	47.1	44.9	1.6	2.6	No	No	No	No
2359	11 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.1	50.7	48.6	3.2	4.5	No	No	No	No
2360	40 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.8	53.4	51.2	4.7	6.4	Yes	No	No	Yes
2361	32 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.1	48.1	45.9	1.6	2.8	No	No	No	No
2362	42 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.2	40.6	46.6	44.5	2.4	3.9	No	No	No	No
2363	2 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	66.9	62.4	62.9	61.0	-4.0	-1.4	No	No	No	No
2364	30 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.4	48.4	46.3	1.6	2.9	No	No	No	No
2365	44 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.6	46.5	44.3	1.8	2.7	No	No	No	No
2366	7 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.0	51.7	49.6	3.1	4.6	No	No	No	No
2367	19 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.3	52.5	50.3	4.3	6.0	No	No	No	No
2368	5 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.0	51.4	49.3	2.8	4.3	No	No	No	No
2369	28 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.6	48.7	46.5	1.6	2.9	No	No	No	No
2371	3 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	51.2	49.0	3.0	4.3	No	No	No	No
2372	26 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.7	48.8	46.6	1.7	2.9	No	No	No	No
2373	42 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.6	52.9	50.7	4.4	6.1	Yes	No	No	Yes
2374	22 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.5	48.7	46.6	1.7	3.1	No	No	No	No
2375	24 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	43.1	48.3	46.1	1.7	3.0	No	No	No	No
2376	1 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.5	52.5	50.3	4.2	5.8	No	No	No	No
2377	44 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.1	51.5	49.3	3.3	5.2	No	No	No	No
2378	20 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.5	48.7	46.6	1.6	3.1	No	No	No	No
2380	18 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	49.1	47.0	1.8	3.2	No	No	No	No
2381	16 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.0	49.5	47.3	1.9	3.3	No	No	No	No
2383	12 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.9	49.5	47.3	2.0	3.4	No	No	No	No
2384	14 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.5	49.0	46.9	2.1	3.4	No	No	No	No
2385	46 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.2	51.9	49.7	3.8	5.5	No	No	No	No
2386	10 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	49.4	47.2	2.1	3.4	No	No	No	No
2387	8 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.1	50.0	47.9	2.3	3.8	No	No	No	No
2388	48 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	43.9	51.9	49.7	4.0	5.8	No	No	No	No
2389	6 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.2	50.5	48.3	2.8	4.1	No	No	No	No
2390	4 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.2	50.7	48.5	2.7	4.3	No	No	No	No
2391	2 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.7	51.1	49.0	2.7	4.3	No	No	No	No
2392	50 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.7	51.4	49.2	3.8	5.5	No	No	No	No
2393	21 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.7	51.7	49.6	3.3	4.9	No	No	No	No
2394	12 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	56.6	52.3	53.6	51.6	-3.0	-0.7	No	No	No	No
2395	4 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	62.7	58.1	59.0	57.1	-3.7	-1.0	No	No	No	No
2396	52 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.5	50.9	48.7	3.5	5.2	No	No	No	No
2399	54 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.0	50.4	48.2	3.4	5.2	No	No	No	No
2401	56 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.0	50.8	48.6	3.8	5.6	No	No	No	No
2403	58 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.8	50.6	48.4	3.9	5.6	No	No	No	No
2405	11 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.4	50.2	52.2	50.1	-2.2	-0.1	No	No	No	No
2407	60 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	50.1	47.9	3.7	5.4	No	No	No	No
2408	99 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	47.3	45.2	1.5	2.9	No	No	No	No
2409	62 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.8	48.6	46.5	2.8	4.7	No	No	No	No
2412	10 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	62.6	58.0	59.0	57.1	-3.6	-0.9	No	No	No	No
2413	64 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.4	48.4	46.2	3.0	4.8	No	No	No	No
2414	2 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.4	48.3	46.1	2.9	4.7	No	No	No	No
2415	92 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	46.9	44.8	1.6	3.1	No	No	No	No
2416	86 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	41.0	46.0	43.9	1.5	2.9	No	No	No	No
2417	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	46.4	44.3	1.7	3.3	No	No	No	No
2418	1 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	48.9	46.8	2.6	4.1	No	No	No	No
2419	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.7	47.1	45.0	1.9	3.3	No	No	No	No
2420	88 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	45.7	43.6	1.6	3.0	No	No	No	No
2421	90 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.2	40.7	45.8	43.7	1.6	3.0	No	No	No	No
2422	4 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.6	48.4	46.2	3.0	4.6	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2423	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.6	47.5	45.4	2.2	3.8	No	No	No	No
2425	80 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	47.5	45.4	2.2	3.6	No	No	No	No
2426	78 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.8	47.6	45.5	2.2	3.7	No	No	No	No
2427	66 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	42.0	48.3	46.1	2.8	4.1	No	No	No	No
2429	76 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	47.8	45.7	2.5	4.0	No	No	No	No
2430	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.9	45.8	43.7	1.4	2.8	No	No	No	No
2431	74 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	47.7	45.6	2.2	3.7	No	No	No	No
2432	70 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	47.8	45.6	2.5	3.9	No	No	No	No
2433	68 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.7	48.0	45.8	2.8	4.1	No	No	No	No
2434	28 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	46.2	44.0	1.3	2.7	No	No	No	No
2435	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	42.6	39.1	44.6	42.5	2.0	3.4	No	No	No	No
2436	6 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	47.8	45.6	2.8	4.4	No	No	No	No
2437	3 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	48.4	46.3	2.8	4.4	No	No	No	No
2438	72 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.6	47.6	45.5	2.5	3.9	No	No	No	No
2439	4 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.1	40.4	44.6	42.5	0.5	2.1	No	No	No	No
2440	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.3	44.2	1.4	3.0	No	No	No	No
2443	9 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	56.7	52.3	54.2	52.2	-2.5	-0.1	No	No	No	No
2444	8 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.0	47.6	45.4	2.8	4.4	No	No	No	No
2445	6 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	43.6	40.1	45.1	43.0	1.5	2.9	No	No	No	No
2447	26 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.5	46.4	44.3	1.4	2.8	No	No	No	No
2448	15 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	43.7	40.0	45.9	43.7	2.2	3.7	No	No	No	No
2449	13 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	46.6	44.4	1.6	3.0	No	No	No	No
2450	5 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	41.8	48.3	46.1	2.8	4.3	No	No	No	No
2451	8 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	43.8	40.0	45.1	43.0	1.3	3.0	No	No	No	No
2452	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	46.3	44.2	1.2	2.7	No	No	No	No
2453	11 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.2	46.6	44.5	1.9	3.3	No	No	No	No
2454	9 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	40.9	46.0	43.9	1.5	3.0	No	No	No	No
2455	5 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	40.7	45.9	43.7	1.4	3.0	No	No	No	No
2456	7 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.7	45.8	43.6	1.4	2.9	No	No	No	No
2457	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.8	41.3	46.2	44.0	1.4	2.7	No	No	No	No
2458	10 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.5	40.7	47.3	45.2	2.8	4.5	No	No	No	No
2459	7 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.2	41.5	48.1	45.9	2.9	4.4	No	No	No	No
2460	20 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	40.9	45.9	43.8	1.4	2.9	No	No	No	No
2461	1 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	47.1	45.0	2.0	3.5	No	No	No	No
2462	3 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	46.7	44.5	2.0	3.5	No	No	No	No
2463	18 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	41.0	46.5	44.4	2.0	3.4	No	No	No	No
2464	14 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	46.6	44.5	2.5	3.9	No	No	No	No
2465	2 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.3	47.2	45.1	2.5	3.8	No	No	No	No
2466	11 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.6	46.6	44.5	2.4	3.9	No	No	No	No
2467	1 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.8	44.6	1.9	3.4	No	No	No	No
2468	3 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	47.3	45.2	2.0	3.5	No	No	No	No
2469	1 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	43.7	40.3	45.9	43.7	2.2	3.4	No	No	No	No
2470	10 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.0	40.4	46.4	44.3	2.4	3.9	No	No	No	No
2471	2 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	42.9	39.2	44.0	41.9	1.1	2.7	No	No	No	No
2472	16 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.8	41.1	45.7	43.6	0.9	2.5	No	No	No	No
2473	26 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.4	46.5	44.4	1.4	3.0	No	No	No	No
2474	2 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	46.8	44.6	1.8	3.2	No	No	No	No
2475	14 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	47.4	45.2	2.4	3.8	No	No	No	No
2476	3 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	47.8	45.6	2.5	4.1	No	No	No	No
2477	5 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.6	47.7	45.5	2.4	3.9	No	No	No	No
2478	2 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.4	46.6	44.4	2.4	4.0	No	No	No	No
2479	9 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	47.8	45.6	2.5	3.8	No	No	No	No
2480	3 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.7	46.2	44.0	1.9	3.3	No	No	No	No
2481	9 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	40.9	46.8	44.7	2.2	3.8	No	No	No	No
2482	4 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.2	41.6	47.3	45.2	2.1	3.6	No	No	No	No
2483	4 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.6	46.1	44.0	1.7	3.4	No	No	No	No
2484	24 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.4	40.8	46.7	44.6	2.3	3.8	No	No	No	No
2485	16 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.1	40.4	47.0	44.8	2.9	4.4	No	No	No	No
2486	4 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.6	44.4	1.7	3.2	No	No	No	No
2487	4 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	40.9	46.9	44.8	2.3	3.9	No	No	No	No
2488	5 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.0	40.5	45.2	43.1	1.2	2.6	No	No	No	No
2489	7 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.4	41.0	47.3	45.2	2.9	4.2	No	No	No	No
2490	8 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	47.8	45.7	2.5	3.9	No	No	No	No
2491	11 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.2	41.6	47.8	45.7	2.6	4.1	No	No	No	No
2492	7 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.1	48.6	46.4	2.9	4.3	No	No	No	No
2493	18 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.8	40.1	46.4	44.3	2.6	4.2	No	No	No	No
2494	6 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.6	46.4	44.3	2.0	3.7	No	No	No	No
2495	17 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	47.9	45.8	2.1	3.5	No	No	No	No
2496	6 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.9	46.6	44.5	2.3	3.6	No	No	No	No
2497	7 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.4	42.8	48.8	46.7	2.4	3.9	No	No	No	No
2498	5 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.6	43.0	48.9	46.8	2.3	3.8	No	No	No	No
2499	22 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.4	47.5	45.3	2.4	3.9	No	No	No	No
2500	6 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.5	46.6	44.4	2.3	3.9	No	No	No	No
2501	9 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	48.8	46.6	2.9	4.3	No	No	No	No
2502	20 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	42.5	38.7	42.7	40.6	0.2	1.9	No	No	No	No
2503	8 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	41.0	47.1	45.0	2.6	4.0	No	No	No	No
2504	13 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.3	47.7	45.6	2.7	4.3	No	No	No	No
2505	6 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	42.2	48.3	46.1	2.7	3.9	No	No	No	No
2506	20 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	48.1	46.0	2.7	4.3	No	No	No	No
2507	19 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	45.8	43.7	0.9	2.4	No	No	No	No
2508	45 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	42.0	38.8	44.2	42.0	2.2	3.2	No	No	No	No
2509	8 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	46.8	44.7	2.6	4.2	No	No	No	No
2510	43 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	47.6	45.5	2.5	4.0	No	No	No	No
2511	11 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.5	49.2	47.0	3.0	4.5	No	No	No	No
2513	18 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.5	40.7	46.6	44.4	2.1	3.7	No	No	No	No
2514	10 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.4	47.5	45.3	2.6	3.9	No	No	No	No
2515	15 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.0	47.7	45.6	2.9	4.6	No	No	No	No
2516	41 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	46.7	44.6	1.4	2.8	No	No	No	No
2517	13 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	49.0	46.9	2.7	4.4	No	No	No	No
2518	10 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.8	47.3	45.1	3.0	4.3	No	No	No	No
2519	24 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	46.7	44.6	2.5	4.1	No	No	No	No
2520	39 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	48.6	46.5	2.6	4.0	No	No	No	No
2521	21 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	46.7	44.5	1.4	2.8	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2522	37 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.2	41.7	46.8	44.7	1.6	3.0	No	No	No	No
2524	23 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.7	41.4	46.7	44.6	2.0	3.2	No	No	No	No
2525	15 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.4	49.1	47.0	3.0	4.6	No	No	No	No
2526	16 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	41.8	48.4	46.3	3.0	4.5	No	No	No	No
2527	12 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.3	46.6	44.4	2.4	4.1	No	No	No	No
2528	17 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	48.0	45.9	3.1	4.8	No	No	No	No
2529	35 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	42.2	48.7	46.6	3.0	4.4	No	No	No	No
2530	12 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.0	47.5	45.3	1.7	3.3	No	No	No	No
2531	26 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.5	40.8	47.1	44.9	2.6	4.1	No	No	No	No
2532	56 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	46.0	43.9	0.9	2.4	No	No	No	No
2533	17 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.9	49.3	47.1	2.8	4.2	No	No	No	No
2534	14 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	47.6	45.5	3.0	4.4	No	No	No	No
2535	28 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	47.8	45.7	2.9	4.5	No	No	No	No
2536	19 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.1	48.0	45.8	3.2	4.7	No	No	No	No
2537	58 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.4	40.5	44.1	42.0	-0.3	1.5	No	No	No	No
2538	60 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.7	39.9	43.2	41.1	-0.5	1.2	No	No	No	No
2539	24 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	42.3	38.9	42.5	40.4	0.2	1.5	No	No	No	No
2540	14 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	48.6	46.5	2.3	4.0	No	No	No	No
2541	16 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.4	49.2	47.1	3.4	4.7	No	No	No	No
2542	21 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	41.9	49.1	46.9	3.4	5.0	No	No	No	No
2543	54 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.7	41.3	46.1	44.0	1.4	2.7	No	No	No	No
2544	31 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.1	42.4	49.1	47.0	3.0	4.6	No	No	No	No
2545	23 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.1	39.8	46.2	44.1	3.1	4.3	No	No	No	No
2546	30 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.2	41.6	48.6	46.5	3.4	4.9	No	No	No	No
2547	50 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.1	42.1	46.7	44.6	0.6	2.5	No	No	No	No
2548	52 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	41.7	45.9	43.8	0.2	2.1	No	No	No	No
2549	33 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	49.0	46.9	3.2	4.7	No	No	No	No
2550	6 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	57.7	53.3	55.5	53.5	-2.2	0.2	No	No	No	No
2551	29 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	48.2	46.1	2.4	3.9	No	No	No	No
2552	25 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.4	41.0	47.4	45.3	3.0	4.3	No	No	No	No
2553	32 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	42.0	48.4	46.3	2.9	4.3	No	No	No	No
2554	46 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.0	47.2	45.1	1.4	3.1	No	No	No	No
2555	48 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.9	42.0	47.9	45.8	2.0	3.8	No	No	No	No
2556	27 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.1	41.6	48.0	45.9	2.9	4.3	No	No	No	No
2557	26 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.3	39.7	43.9	41.8	0.6	2.1	No	No	No	No
2558	44 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.5	40.9	46.2	44.2	1.7	3.3	No	No	No	No
2559	42 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	41.9	47.1	44.9	1.4	3.0	No	No	No	No
2560	34 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	38.6	40.9	47.6	45.5	9.0	4.6	No	No	No	No
2561	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.0	40.0	44.2	42.1	0.2	2.1	No	No	No	No
2562	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.2	44.6	42.4	0.3	2.2	No	No	No	No
2563	40 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.6	42.7	47.4	45.3	0.8	2.6	No	No	No	No
2564	33 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	45.9	43.8	1.3	2.7	No	No	No	No
2565	14 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.0	40.9	45.7	43.5	0.7	2.6	No	No	No	No
2566	2 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	42.1	47.6	45.5	2.3	3.4	No	No	No	No
2567	2 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	40.4	44.0	49.2	47.0	8.8	3.0	No	No	No	No
2568	3 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.8	47.5	45.3	2.5	3.5	No	No	No	No
2569	7 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	60.4	55.9	57.6	55.5	-2.8	-0.4	No	No	No	No
2570	13 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	47.0	44.8	1.5	3.1	No	No	No	No
2571	38 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	42.1	47.5	45.3	2.1	3.2	No	No	No	No
2572	1 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	41.7	44.1	50.9	48.8	9.2	4.7	No	No	No	No
2573	4 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	40.8	44.5	50.4	48.2	9.6	3.7	No	No	No	No
2574	15 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	41.6	46.5	44.4	0.9	2.8	No	No	No	No
2575	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.3	40.7	45.0	42.9	0.7	2.2	No	No	No	No
2576	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.2	40.7	44.8	42.7	0.6	2.0	No	No	No	No
2577	12 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.0	43.1	48.4	46.3	1.4	3.2	No	No	No	No
2578	4 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.6	49.4	47.3	2.2	3.7	No	No	No	No
2579	36 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.4	40.9	48.1	46.0	3.7	5.1	No	No	No	No
2580	32 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.6	39.9	44.6	42.4	1.0	2.5	No	No	No	No
2581	35 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.0	40.6	45.3	43.2	1.3	2.6	No	No	No	No
2582	16 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.8	47.4	45.3	2.6	3.5	No	No	No	No
2583	17 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.8	47.4	45.2	2.6	3.4	No	No	No	No
2584	37 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.2	39.9	44.6	42.5	1.4	2.6	No	No	No	No
2585	3 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	41.2	43.5	50.3	48.2	9.1	4.7	No	No	No	No
2586	5 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.6	49.7	47.6	1.5	3.0	No	No	No	No
2587	6 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	41.2	45.0	50.2	48.1	9.0	3.1	No	No	No	No
2588	5 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	42.9	45.4	51.6	49.5	8.7	4.1	No	No	No	No
2589	11 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.4	46.7	44.6	2.0	3.2	No	No	No	No
2590	34 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.5	40.1	45.2	43.0	1.7	2.9	No	No	No	No
2591	3 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.0	43.9	1.1	2.7	No	No	No	No
2592	2 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.3	43.2	48.7	46.6	1.4	3.4	No	No	No	No
2593	10 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	46.9	44.7	1.4	2.8	No	No	No	No
2594	34 DEANS AVENUE SINGLETON HEIGHTS	Residential	55	50	41.4	38.5	42.8	40.6	1.4	2.1	No	No	No	No
2595	1 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.2	44.5	50.0	47.9	1.8	3.4	No	No	No	No
2599	9 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.3	46.3	44.1	1.2	2.8	No	No	No	No
2600	38 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.1	38.4	42.7	40.6	1.6	2.2	No	No	No	No
2601	4941 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	60.5	56.0	57.2	55.3	-3.3	-0.7	No	No	No	No
2602	9 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.4	50.1	48.0	2.0	3.6	No	No	No	No
2603	4 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.1	49.2	47.0	1.4	2.9	No	No	No	No
2604	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.0	37.8	42.0	39.9	1.0	2.1	No	No	No	No
2605	8 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	43.8	40.1	45.0	42.9	1.2	2.8	No	No	No	No
2606	5 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.6	43.8	49.0	46.8	1.4	3.0	No	No	No	No
2607	11 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.1	49.7	47.5	1.8	3.4	No	No	No	No
2608	7 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.7	46.2	44.1	1.9	3.4	No	No	No	No
2609	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.3	38.2	42.5	40.4	1.2	2.2	No	No	No	No
2610	6 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.4	43.6	48.9	46.8	1.5	3.2	No	No	No	No
2611	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	42.7	39.5	43.9	41.7	1.2	2.2	No	No	No	No
2612	13 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.5	48.9	46.8	1.4	3.3	No	No	No	No
2613	15 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.5	48.8	46.6	1.5	3.1	No	No	No	No
2614	44A CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.4	41.5	46.2	44.1	0.8	2.6	No	No	No	No
2615	4943 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	60.6	56.1	57.2	55.3	-3.4	-0.8	No	No	No	No
2616	14 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.0	48.8	46.7	0.8	2.7	No	No	No	No
2617	30 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.3	47.0	44.9	0.8	2.6	No	No	No	No
2618	32 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	47.1	45.0	0.8	2.5	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2619	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	42.7	48.1	46.0	1.1	3.3	No	No	No	No
2620	42 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.9	40.8	45.2	43.1	0.3	2.3	No	No	No	No
2622	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	42.8	48.0	45.8	0.8	3.0	No	No	No	No
2624	20 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	47.1	45.0	0.8	2.5	No	No	No	No
2625	17 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.1	46.9	44.8	0.6	2.7	No	No	No	No
2626	22 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.0	47.3	45.2	1.3	3.2	No	No	No	No
2627	20A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.2	37.9	43.0	40.8	1.8	2.9	No	No	No	No
2628	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.1	47.4	45.2	0.9	3.1	No	No	No	No
2629	19 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	46.3	44.1	1.0	2.6	No	No	No	No
2630	22A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	41.8	47.0	44.9	1.4	3.1	No	No	No	No
2631	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.6	48.6	46.5	1.0	2.9	No	No	No	No
2632	24 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	41.8	46.5	44.4	0.8	2.6	No	No	No	No
2633	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.6	46.0	43.9	1.6	3.3	No	No	No	No
2634	21 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.1	46.6	44.5	0.7	2.4	No	No	No	No
2635	26 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.3	39.4	44.6	42.4	1.3	3.0	No	No	No	No
2636	38 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.1	48.0	45.9	1.0	2.8	No	No	No	No
2638	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	43.8	48.8	46.7	0.9	2.9	No	No	No	No
2639	40 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.1	48.0	45.8	1.1	2.7	No	No	No	No
2640	23 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.2	46.9	44.7	0.8	2.5	No	No	No	No
2641	28 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	42.7	48.0	45.9	1.2	3.2	No	No	No	No
2643	25 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.1	46.7	44.6	0.6	2.5	No	No	No	No
2644	42 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.0	47.9	45.8	1.0	2.8	No	No	No	No
2645	28A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	43.6	48.7	46.5	1.0	2.9	No	No	No	No
2646	30 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.4	46.8	44.7	0.5	2.3	No	No	No	No
2647	44 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.6	47.1	45.0	0.7	2.4	No	No	No	No
2648	27 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.1	48.2	46.1	1.1	3.0	No	No	No	No
2649	32 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	42.9	47.6	45.5	0.6	2.6	No	No	No	No
2650	46 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.8	47.4	45.3	1.6	3.5	No	No	No	No
2652	29 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.1	48.4	46.3	1.3	3.2	No	No	No	No
2653	34 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.0	48.1	46.0	1.0	3.0	No	No	No	No
2654	36 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.0	47.7	45.6	0.6	2.6	No	No	No	No
2655	50 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.0	47.8	45.6	1.7	3.6	No	No	No	No
2656	52 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	42.8	48.2	46.1	1.3	3.3	No	No	No	No
2657	38 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.4	47.3	45.2	0.7	2.8	No	No	No	No
2658	42 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.1	48.3	46.2	1.1	3.1	No	No	No	No
2659	40 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	47.6	45.5	0.9	2.9	No	No	No	No
2661	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	55.3	52.2	57.0	55.0	1.7	2.8	Yes	Yes	No	Yes
2662	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.2	49.9	57.1	55.2	3.9	5.3	Yes	Yes	No	Yes
2663	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.5	50.2	57.0	55.0	3.5	4.8	Yes	Yes	No	Yes
2664	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.2	50.9	56.8	54.7	2.6	3.8	Yes	Yes	No	Yes
2665	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.7	50.5	56.8	54.8	3.1	4.3	Yes	Yes	No	Yes
2666	1-3 SCOTT STREET SINGLETON	Residential	0	0	39.3	36.5	53.8	52.2	14.5	15.7	No	No	Yes	Yes
2667	1 VIEW STREET SINGLETON	Residential	0	0	40.6	38.0	51.8	50.2	11.2	12.2	No	No	Yes	Yes
2677	5065 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	60	55	54.2	54.0	55.7	53.7	1.5	-0.3	No	No	No	No
2679	5077 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	60	55	59.2	59.2	61.0	59.0	1.8	-0.2	Yes	No	No	No
2690	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	47.2	46.0	47.8	45.8	0.6	-0.2	No	No	No	No
2691	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	48.4	47.4	49.2	47.2	0.8	-0.2	No	No	No	No
2692	5066 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	59	54	50.4	49.9	52.5	50.4	2.1	0.5	No	No	No	No
2694	100 GARDNER CIRCUIT SINGLETON HEIGHTS	Residential	55	50	41.0	39.0	42.2	40.0	1.2	1.0	No	No	No	No
2697	92 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.9	37.9	41.3	39.1	1.4	1.2	No	No	No	No
2698	94 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.9	37.8	41.2	39.0	1.3	1.2	No	No	No	No
2700	96 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.0	37.8	41.3	39.1	1.3	1.3	No	No	No	No
2702	98 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.1	37.8	41.3	39.1	1.2	1.3	No	No	No	No
2703	90 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.1	36.9	40.4	38.2	1.3	1.3	No	No	No	No
2704	88 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.9	36.6	40.2	38.1	1.3	1.5	No	No	No	No
2705	86 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.7	36.5	40.1	37.9	1.4	1.4	No	No	No	No
2706	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.7	36.4	40.1	38.0	1.4	1.6	No	No	No	No
2707	48 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.2	47.2	45.1	1.0	2.9	No	No	No	No
2708	47 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.7	46.1	44.0	0.9	2.3	No	No	No	No
2709	49 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.5	47.1	45.0	0.6	2.5	No	No	No	No
2710	51 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.0	47.4	45.2	1.2	3.2	No	No	No	No
2711	53 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.0	47.4	45.3	1.4	3.3	No	No	No	No
2712	46 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.5	48.0	45.9	1.4	3.4	No	No	No	No
2714	48 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.2	47.7	45.6	1.4	3.4	No	No	No	No
2717	35 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.4	46.4	44.3	1.0	2.9	No	No	No	No
2718	44 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.3	47.3	45.2	0.9	2.9	No	No	No	No
2720	50 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.7	46.8	44.7	1.0	3.0	No	No	No	No
2721	37 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.9	39.9	44.7	42.6	0.8	2.7	No	No	No	No
2722	38 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	42.7	38.9	43.8	41.6	1.1	2.7	No	No	No	No
2723	52 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.3	46.7	44.5	1.3	3.2	No	No	No	No
2726	54 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.6	38.8	44.1	41.9	1.5	3.1	No	No	No	No
2727	40 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	42.0	38.3	42.8	40.6	0.8	2.3	No	No	No	No
2728	56 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.0	47.4	45.3	1.3	3.3	No	No	No	No
2729	60 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.6	38.8	44.3	42.1	1.7	3.3	No	No	No	No
2730	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.7	37.2	41.5	39.4	0.8	2.2	No	No	No	No
2731	64 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.6	37.1	41.8	39.6	1.2	2.5	No	No	No	No
2732	58 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.1	45.9	43.8	0.7	2.7	No	No	No	No
2733	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.0	38.5	44.0	41.9	2.0	3.4	No	No	No	No
2734	3 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.6	37.0	41.7	39.5	1.1	2.5	No	No	No	No
2735	2 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.1	35.8	40.4	38.2	1.3	2.4	No	No	No	No
2736	4 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	41.7	38.0	42.7	40.5	1.0	2.5	No	No	No	No
2737	1 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.4	36.1	40.7	38.5	1.3	2.4	No	No	No	No
2738	5 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.2	36.7	41.5	39.4	1.3	2.7	No	No	No	No
2739	68 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.4	37.8	42.4	40.3	1.0	2.5	No	No	No	No
2740	6 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.6	36.2	40.9	38.8	1.3	2.6	No	No	No	No
2741	6 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.4	38.0	42.4	40.3	1.0	2.3	No	No	No	No
2742	1 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.5	37.2	41.5	39.3	1.0	2.1	No	No	No	No
2743	7 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.0	36.7	41.2	39.0	1.2	2.3	No	No	No	No
2744	2 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	39.8	36.5	41.0	38.8	1.2	2.3	No	No	No	No
2745	5 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.7	38.3	42.8	40.6	1.1	2.3	No	No	No	No
2746	1 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.2	37.9	42.3	40.1	1.1	2.2	No	No	No	No
2747	4 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.8	37.7	42.5	40.4	1.7	2.7	No	No	No	No
2748	3 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.3	37.1	41.4	39.2	1.1	2.1	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - No Noise Barrier								Exceedance of NCG Criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2749	2 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.5	37.5	42.0	39.9	1.5	2.4	No	No	No	No
2750	4 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.0	36.9	41.5	39.4	1.5	2.5	No	No	No	No
2751	8 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	41.0	37.8	42.1	39.9	1.1	2.1	No	No	No	No
2752	3 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.0	37.1	41.5	39.4	1.5	2.3	No	No	No	No
2753	5 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	39.9	36.9	41.3	39.1	1.4	2.2	No	No	No	No
2754	74 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.5	36.9	41.1	38.9	1.6	2.0	No	No	No	No
2755	7 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.0	37.2	41.7	39.5	1.7	2.3	No	No	No	No
2757	6 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	39.9	37.0	41.6	39.5	1.7	2.5	No	No	No	No
2758	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.8	35.7	40.2	38.1	1.4	2.4	No	No	No	No
2759	76 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.7	36.4	40.3	38.2	1.6	1.8	No	No	No	No
2760	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.4	36.8	41.2	39.1	1.8	2.3	No	No	No	No
2762	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.1	36.6	40.6	38.4	1.5	1.8	No	No	No	No
2763	82 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.8	36.3	40.1	37.9	1.3	1.6	No	No	No	No
2764	84 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.1	36.7	40.3	38.2	1.2	1.5	No	No	No	No
2765	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.2	36.7	40.3	38.2	1.1	1.5	No	No	No	No
2766	5022 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	52.1	49.7	54.1	51.9	2.0	2.2	Yes	No	No	Yes
2130	4862 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	64.5	61.6	63.4	61.2	-1.1	-0.4	Yes	Yes	No	Yes
2229	4864 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	59.4	56.5	60.3	58.2	0.9	1.7	Yes	Yes	No	Yes
Z	Note: * Facade with the greatest change in noise levels													

Design Year - No Noise Barrier

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1013	53 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	51.8	49.4	52.1	50.2	0.3	0.8	No	No	No	No
1015	61 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	50.6	48.2	50.9	49.0	0.3	0.8	No	No	No	No
1020	4245 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	61.8	59.4	61.9	59.9	0.1	0.5	No	No	No	No
1023	4244 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	69.1	66.7	69.2	67.3	0.1	0.6	No	No	No	No
1027	18 CEMETERY LANE WHITTINGHAM	Residential	60	55	60.3	57.9	60.4	58.5	0.1	0.6	No	No	No	No
1028	28 CEMETERY LANE WHITTINGHAM	Residential	60	55	57.3	54.9	57.3	55.4	0.0	0.5	No	No	No	No
1029	13 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	58.5	56.1	58.3	56.3	-0.2	0.2	No	No	No	No
1031	4253 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	75.0	72.6	75.2	73.2	0.2	0.6	No	No	No	No
1032	4 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	69.6	67.2	69.7	67.8	0.1	0.6	No	No	No	No
1041	18 NEWINGTON LANE WHITTINGHAM	Residential	60	55	58.4	56.0	58.5	56.6	0.1	0.6	Yes	No	No	No
1049	3 NEWINGTON LANE WHITTINGHAM	Residential	55	50	65.9	63.5	63.9	62.1	-2.0	-1.4	Yes	Yes	No	Yes
1051	4339 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	55	50	56.0	53.6	58.0	56.2	2.0	2.6	Yes	Yes	No	Yes
1055	48 MAITLAND ROAD SINGLETON	Residential	55	50	53.9	51.5	52.4	50.5	-1.5	-1.0	Yes	No	No	No
1060	8 THE GLADE GOWRIE	Residential	55	50	49.3	45.5	50.6	47.9	1.3	2.4	No	No	No	No
1070	6 THE GLADE GOWRIE	Residential	55	50	50.8	47.1	51.8	48.9	1.0	1.8	No	No	No	No
1073	18 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.4	47.0	47.4	45.5	-2.0	-1.5	No	No	No	No
1075	19 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.5	51.1	52.4	50.5	-1.1	-0.6	Yes	No	No	No
1077	17 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.8	45.4	46.4	44.4	-1.4	-1.0	No	No	No	No
1078	4 THE GLADE GOWRIE	Residential	55	50	53.4	49.6	53.6	50.0	0.2	0.4	No	No	No	No
1081	20 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.7	51.3	52.5	50.6	-1.2	-0.7	Yes	No	No	No
1083	4403 NEW ENGLAND HIGHWAY SINGLETON	Residential	55	50	68.8	66.4	62.2	60.0	-6.6	-6.4	Yes	Yes	No	Yes
1085	16 ARDERSIER DRIVE SINGLETON	Residential	55	50	48.0	45.6	46.4	44.5	-1.6	-1.1	No	No	No	No
1087	21 ARDERSIER DRIVE SINGLETON	Residential	55	50	54.4	52.0	53.1	51.2	-1.3	-0.8	Yes	No	No	No
1089	15 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.4	45.6	43.7	-1.2	-0.7	No	No	No	No
1091	14 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.1	43.7	45.2	43.3	-0.9	-0.4	No	No	No	No
1093	22 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.3	52.9	53.8	51.8	-1.5	-1.1	Yes	No	No	No
1095	11 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.9	43.5	44.7	42.7	-1.2	-0.8	No	No	No	No
1099	23 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.9	53.5	54.3	52.4	-1.6	-1.1	Yes	No	No	No
1101	13 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.3	44.9	46.1	44.2	-1.2	-0.7	No	No	No	No
1103	9 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.6	43.2	44.3	42.4	-1.3	-0.8	No	No	No	No
1106	2 THE GLADE GOWRIE	Residential	55	50	60.7	56.8	60.6	53.9	-0.1	-2.9	No	No	No	No
1107	12 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.0	44.6	46.0	44.1	-1.0	-0.5	No	No	No	No
1109	24 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.4	53.0	53.6	51.7	-1.8	-1.3	Yes	No	No	No
1111	8 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.1	42.7	44.3	42.3	-0.8	-0.4	No	No	No	No
1113	10 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.6	44.2	45.0	43.0	-1.6	-1.2	No	No	No	No
1115	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	44.9	42.5	43.7	41.7	-1.2	-0.8	No	No	No	No
1117	25 ARDERSIER DRIVE SINGLETON	Residential	55	50	57.7	55.3	55.6	53.6	-2.1	-1.7	Yes	No	No	No
1119	7 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.4	45.0	46.1	44.2	-1.3	-0.8	No	No	No	No
1121	26 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.9	48.4	49.4	47.5	-1.5	-0.9	No	No	No	No
1123	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.7	43.2	44.6	42.6	-1.1	-0.6	No	No	No	No
1125	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.6	43.2	44.4	42.5	-1.2	-0.7	No	No	No	No
1129	6 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.5	45.1	47.4	45.6	-0.1	0.5	No	No	No	No
1131	27 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.0	46.6	47.8	45.8	-1.2	-0.8	No	No	No	No
1133	28 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.9	47.5	48.0	46.0	-1.9	-1.5	No	No	No	No
1135	2 GASLIGHT PLACE SINGLETON	Residential	55	50	56.4	54.0	54.1	52.1	-2.3	-1.9	Yes	No	No	No
1137	5 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.4	45.0	46.2	44.3	-1.2	-0.7	No	No	No	No
1139	28 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.3	44.9	46.6	44.7	-0.7	-0.2	No	No	No	No
1141	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.1	43.7	44.1	42.1	-2.0	-1.6	No	No	No	No
1147	24 GREENWOOD AVENUE SINGLETON	Residential	55	50	45.2	42.8	44.6	42.7	-0.6	-0.1	No	No	No	No
1149	7 GASLIGHT PLACE SINGLETON	Residential	55	50	48.5	46.0	48.9	47.0	0.4	1.0	No	No	No	No
1151	3 GASLIGHT PLACE SINGLETON	Residential	55	50	54.9	52.5	52.9	50.9	-2.0	-1.6	Yes	No	No	No
1155	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.4	45.7	43.8	-1.1	-0.6	No	No	No	No
1159	22 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.8	45.4	46.8	44.9	-1.0	-0.5	No	No	No	No
1161	6 GASLIGHT PLACE SINGLETON	Residential	55	50	50.9	48.5	49.7	47.7	-1.2	-0.8	No	No	No	No
1163	2 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.7	45.2	46.4	44.4	-1.3	-0.8	No	No	No	No
1165	48 MAITLAND ROAD SINGLETON	Residential	55	50	60.6	58.2	57.8	55.7	-2.8	-2.5	Yes	Yes	No	Yes
1167	1 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.6	45.2	45.9	43.9	-1.7	-1.3	No	No	No	No
1168	68 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	58.4	54.4	58.8	52.4	0.4	-2.0	No	No	No	No
1169	30 ARDERSIER DRIVE SINGLETON	Residential	55	50	51.4	49.0	50.4	48.5	-1.0	-0.5	No	No	No	No
1171	20 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.2	44.8	44.9	42.9	-2.3	-1.9	No	No	No	No
1173	18 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.9	45.5	47.0	45.1	-0.9	-0.4	No	No	No	No
1177	16 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.6	45.2	46.8	44.9	-0.8	-0.3	No	No	No	No
1179	31 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.9	51.4	51.9	50.0	-2.0	-1.4	No	No	No	No
1181	4 GASLIGHT PLACE SINGLETON	Residential	55	50	56.1	53.7	54.0	52.0	-2.1	-1.7	No	No	No	No
1183	34 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.4	50.0	50.8	48.9	-1.6	-1.1	No	No	No	No
1185	33 ARDERSIER DRIVE SINGLETON	Residential	55	50	51.0	48.6	49.2	47.2	-1.8	-1.4	No	No	No	No
1187	14 GREENWOOD AVENUE SINGLETON	Residential	55	50	49.0	46.6	47.7	45.8	-1.3	-0.8	No	No	No	No
1189	32 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.9	51.5	52.1	50.1	-1.8	-1.4	No	No	No	No
1191	35 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.6	50.2	50.5	48.5	-2.1	-1.7	No	No	No	No
1193	19 GREENWOOD AVENUE SINGLETON	Residential	55	50	55.6	53.2	52.9	50.8	-2.7	-2.4	No	No	No	No
1195	12 GREENWOOD AVENUE SINGLETON	Residential	55	50	52.3	49.8	49.8	47.8	-2.5	-2.0	No	No	No	No
1207	15 GREENWOOD AVENUE SINGLETON	Residential	55	50	53.8	51.3	51.3	49.2	-2.5	-2.1	No	No	No	No
1211	9 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	66.1	63.7	62.4	60.2	-3.7	-3.5	No	No	No	No
1213	40 MAITLAND ROAD SINGLETON	Residential	55	50	67.4	65.0	63.7	61.5	-3.7	-3.5	No	No	No	No
1215	8 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.9	65.5	64.1	61.9	-3.8	-3.6	No	No	No	No
1216	70 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	55.0	51.1	54.6	50.5	-0.4	-0.6	Yes	No	No	No
1219	11 GREENWOOD AVENUE SINGLETON	Residential	55	50	57.5	55.1	54.3	52.1	-3.2	-3.0	No	No	No	No
1220	9 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.0	50.4	54.0	51.2	0.0	0.8	Yes	No	No	No
1221	7 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.8	65.4	64.1	61.8	-3.7	-3.6	No	No	No	No
1222	7 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.9	51.9	54.3	52.2	-1.6	0.3	Yes	No	No	No
1224	11 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.8	49.7	52.7	50.4	-1.1	0.7	No	No	No	No
1225	6 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	68.7	66.3	64.9	62.7	-3.8	-3.6	No	No	No	No
1226	13 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.0	49.0	52.5	49.7	-0.5	0.7	No	No	No	No
1229	10 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.1	54.7	54.8	52.7	-2.3	-2.0	Yes	No	No	No
1230	8 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.4	51.2	53.4	51.3	-2.0	0.1	Yes	No	No	No
1231	36 MAITLAND ROAD SINGLETON	Residential	55	50	70.0	67.6	66.3	64.1	-3.7	-3.5	No	No	No	No
1233	34 MAITLAND ROAD SINGLETON	Residential	55	50	68.3	65.9	64.6	62.4	-3.7	-3.5	No	No	No	No
1234	15 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.2	49.2	52.4	50.1	-0.8	0.9	No	No	No	No
1235	35B WADDELLS LANE WHITTINGHAM	Residential	55	50	50.8	48.4	59.7	58.1	8.9	9.7	Yes	Yes	No	Yes
1237	30 MAITLAND ROAD SINGLETON	Residential	55	50	70.4	68.0	66.7	64.5	-3.7	-3.5	No	No	No	No
1238	10 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.7	50.6	53.5	51.1	-1.2	0.5	Yes	No	No	No
1239	5 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.7	55.2	54.6	52.5	-3.1	-2.7	No	No	No	No
1241	12 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	55.4	53.0	53.8	51.8	-1.6	-1.2	Yes	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1243	32 MAITLAND ROAD SINGLETON	Residential	55	50	70.2	67.8	66.5	64.3	-3.7	-3.5	No	No	No	No
1244	12 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.9	49.9	52.7	50.7	-1.2	0.8	Yes	No	No	No
1245	4 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	63.3	60.9	59.6	57.4	-3.7	-3.5	No	No	No	No
1246	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.0	49.7	51.8	49.8	-2.2	0.1	No	No	No	No
1247	13 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	54.3	51.9	53.3	51.4	-1.0	-0.5	Yes	No	No	No
1250	3 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.2	50.9	53.4	51.3	-1.8	0.4	Yes	No	No	No
1251	2 FERGUSON CLOSE SINGLETON	Residential	55	50	55.1	52.7	51.8	49.6	-3.3	-3.1	No	No	No	No
1252	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	52.8	48.6	51.7	49.5	-1.1	0.9	No	No	No	No
1253	1 FERGUSON CLOSE SINGLETON	Residential	55	50	58.3	55.9	54.8	52.6	-3.5	-3.3	No	No	No	No
1255	14 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	53.5	51.1	52.8	50.9	-0.7	-0.2	Yes	No	No	No
1256	4 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.8	51.5	54.2	52.1	-1.6	0.6	Yes	No	No	No
1258	14 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.1	49.4	52.1	50.0	-1.0	0.6	No	No	No	No
1259	15 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	52.7	50.2	52.2	50.3	-0.5	0.1	No	No	No	No
1261	3 FERGUSON CLOSE SINGLETON	Residential	55	50	55.0	52.6	51.5	49.3	-3.5	-3.3	No	No	No	No
1262	5 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.7	50.6	53.8	51.8	-0.9	1.2	Yes	No	No	No
1263	2 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.8	55.4	54.2	52.0	-3.6	-3.4	No	No	No	No
1265	16 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	51.9	49.5	51.8	49.9	-0.1	0.4	No	No	No	No
1267	4 FERGUSON CLOSE SINGLETON	Residential	55	50	51.7	49.3	49.8	47.8	-1.9	-1.5	No	No	No	No
1268	4945 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	59.2	54.7	55.5	53.7	-3.7	-1.0	No	No	No	No
1269	5 FERGUSON CLOSE SINGLETON	Residential	55	50	53.5	51.1	50.2	48.0	-3.3	-3.1	No	No	No	No
1271	1 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	55.2	52.8	51.7	49.5	-3.5	-3.3	No	No	No	No
1279	17 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	51.2	48.8	51.2	49.4	0.0	0.6	No	No	No	No
1289	20 WATERHOUSE AVENUE SINGLETON	Residential	55	50	55.7	53.3	52.4	50.2	-3.3	-3.1	No	No	No	No
1291	22 WATERHOUSE AVENUE SINGLETON	Residential	55	50	53.3	50.9	50.2	48.1	-3.1	-2.8	No	No	No	No
1293	24 WATERHOUSE AVENUE SINGLETON	Residential	55	50	51.6	49.1	49.1	47.0	-2.5	-2.1	No	No	No	No
1295	26 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.8	48.3	48.6	46.5	-2.2	-1.8	No	No	No	No
1297	28 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.2	47.8	48.0	46.0	-2.2	-1.8	No	No	No	No
1299	30 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.4	47.0	48.2	46.2	-1.2	-0.8	No	No	No	No
1301	32 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.5	48.1	50.6	48.7	0.1	0.6	No	No	No	No
1303	19 WATERHOUSE AVENUE SINGLETON	Residential	55	50	55.1	52.7	51.9	49.8	-3.2	-2.9	No	No	No	No
1309	17 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.8	52.4	51.5	49.3	-3.3	-3.1	No	No	No	No
1311	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.1	51.7	51.0	48.9	-3.1	-2.8	No	No	No	No
1313	23 WATERHOUSE AVENUE SINGLETON	Residential	55	50	51.8	49.4	49.0	46.9	-2.8	-2.5	No	No	No	No
1315	25 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.9	48.5	49.0	46.9	-1.9	-1.6	No	No	No	No
1317	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	47.1	44.6	47.5	45.7	0.4	1.1	No	No	No	No
1319	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	43.9	41.4	46.6	44.8	2.7	3.4	No	No	No	No
1320	72 KELSO STREET SINGLETON	Residential	55	50	49.0	46.6	49.5	47.7	0.5	1.1	No	No	No	No
1321	29 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.4	46.9	48.4	46.5	-1.0	-0.4	No	No	No	No
1322	31 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.2	46.8	48.2	46.3	-1.0	-0.5	No	No	No	No
1323	27 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.0	46.6	47.8	45.8	-1.2	-0.8	No	No	No	No
1324	70 KELSO STREET SINGLETON	Residential	55	50	48.6	46.2	49.5	47.7	0.9	1.5	No	No	No	No
1325	2 ELLEN AVENUE SINGLETON	Residential	55	50	50.2	47.8	49.2	47.2	-1.0	-0.6	No	No	No	No
1326	12 TULLOCH CLOSE SINGLETON	Residential	55	50	51.2	48.8	48.8	46.7	-2.4	-2.1	No	No	No	No
1327	9 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	44.0	41.5	46.9	45.1	2.9	3.6	No	No	No	No
1328	6 ELLEN AVENUE SINGLETON	Residential	55	50	48.5	46.1	47.8	45.9	-0.7	-0.2	No	No	No	No
1329	4 ELLEN AVENUE SINGLETON	Residential	55	50	49.5	47.1	48.7	46.8	-0.8	-0.3	No	No	No	No
1330	11 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	40.9	38.4	46.9	45.2	6.0	6.8	No	No	No	No
1331	7 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.2	45.8	47.1	45.1	-1.1	-0.7	No	No	No	No
1332	8 ELLEN AVENUE SINGLETON	Residential	55	50	50.6	48.2	51.0	49.2	0.4	1.0	No	No	No	No
1333	10 ELLEN AVENUE SINGLETON	Residential	55	50	49.8	47.4	51.2	49.4	1.4	2.0	No	No	Yes	Yes
1333	10 ELLEN AVENUE SINGLETON*	Residential	55	50	36.8	34.3	48.9	47.2	12.1	12.9				
1334	5 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	43.7	41.2	46.5	44.7	2.8	3.5	No	No	No	No
1335	68 KELSO STREET SINGLETON	Residential	55	50	48.4	45.9	49.0	47.2	0.6	1.3	No	No	No	No
1336	14 ELLEN AVENUE SINGLETON	Residential	55	50	51.3	48.8	53.6	51.8	2.3	3.0	Yes	No	Yes	Yes
1336	14 ELLEN AVENUE SINGLETON*	Residential	55	50	39.8	37.3	51.4	49.7	11.6	12.4				
1337	12 ELLEN AVENUE SINGLETON	Residential	55	50	49.5	47.1	51.7	50.0	2.2	2.9	No	No	No	No
1338	1 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	43.1	40.7	46.3	44.6	3.2	3.9	No	No	No	No
1339	3 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.1	44.7	46.6	44.7	-0.5	0.0	No	No	No	No
1340	16 ELLEN AVENUE SINGLETON	Residential	55	50	49.8	47.4	55.9	54.2	6.1	6.8	Yes	No	Yes	Yes
1340	16 ELLEN AVENUE SINGLETON*	Residential	55	50	40.0	37.5	52.1	50.4	12.1	12.9				
1341	66 KELSO STREET SINGLETON	Residential	55	50	47.0	44.6	48.2	46.4	1.2	1.8	No	No	No	No
1343	10 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	49.2	46.8	47.6	45.6	-1.6	-1.2	No	No	No	No
1344	3 ELLEN AVENUE SINGLETON	Residential	55	50	43.7	41.3	47.3	45.6	3.6	4.3	No	No	No	No
1345	1 ELLEN AVENUE SINGLETON	Residential	55	50	47.5	45.1	47.3	45.4	-0.2	0.3	No	No	No	No
1346	8 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.4	46.0	47.0	45.0	-1.4	-1.0	No	No	No	No
1347	6 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.1	45.7	46.8	44.9	-1.3	-0.8	No	No	No	No
1348	4 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.6	45.1	46.6	44.7	-1.0	-0.4	No	No	No	No
1349	103 KELSO STREET SINGLETON	Residential	55	50	42.3	39.9	45.5	43.7	3.2	3.8	No	No	No	No
1351	5 ELLEN AVENUE SINGLETON	Residential	55	50	45.0	42.6	48.3	46.6	3.3	4.0	No	No	No	No
1352	2 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.5	45.0	46.8	44.9	-0.7	-0.1	No	No	No	No
1353	64 KELSO STREET SINGLETON	Residential	55	50	46.6	44.2	48.1	46.3	1.5	2.1	No	No	No	No
1354	7 ELLEN AVENUE SINGLETON	Residential	55	50	46.8	44.4	54.5	52.9	7.7	8.5	Yes	No	No	Yes
1355	101 KELSO STREET SINGLETON	Residential	55	50	43.8	41.4	46.9	45.2	3.1	3.8	No	No	No	No
1356	39 ADA STREET SINGLETON	Residential	55	50	45.4	42.9	50.6	48.9	5.2	6.0	No	No	No	No
1357	44 ADA STREET SINGLETON	Residential	55	50	43.2	40.8	46.8	45.0	3.6	4.2	No	No	No	No
1358	50 ORCHARD AVENUE SINGLETON	Residential	55	50	48.7	46.3	47.4	45.5	-1.3	-0.8	No	No	No	No
1359	62 KELSO STREET SINGLETON	Residential	55	50	45.6	43.2	48.0	46.2	2.4	3.0	No	No	No	No
1360	99 KELSO STREET SINGLETON	Residential	55	50	44.3	41.8	47.0	45.3	2.7	3.5	No	No	No	No
1361	35B WADDELLS LANE SINGLETON	Residential	55	50	47.8	45.3	61.9	60.2	14.1	14.9	Yes	Yes	Yes	Yes
1362	12 WADDELLS AVENUE SINGLETON	Residential	55	50	48.7	46.3	55.4	53.7	6.7	7.4	Yes	No	Yes	Yes
1362	12 WADDELLS AVENUE SINGLETON*	Residential	55	50	37.4	35.0	50.1	48.5	12.7	13.5				
1363	37 ADA STREET SINGLETON	Residential	55	50	45.6	43.2	51.5	49.8	5.9	6.6	No	No	No	No
1364	42 ADA STREET SINGLETON	Residential	55	50	43.5	41.1	47.0	45.3	3.5	4.2	No	No	No	No
1365	52 ORCHARD AVENUE SINGLETON	Residential	55	50	48.0	45.6	46.7	44.7	-1.3	-0.9	No	No	No	No
1366	54 ORCHARD AVENUE SINGLETON	Residential	55	50	41.2	38.7	47.1	45.4	5.9	6.7	No	No	No	No
1367	60 KELSO STREET SINGLETON	Residential	55	50	45.5	43.1	48.5	46.8	3.0	3.7	No	No	No	No
1368	35 ADA STREET SINGLETON	Residential	55	50	45.1	42.6	52.4	50.7	7.3	8.1	Yes	No	No	Yes
1369	10 WADDELLS AVENUE SINGLETON	Residential	55	50	48.7	46.3	55.4	53.7	6.7	7.4	Yes	No	No	Yes
1370	40 ADA STREET SINGLETON	Residential	55	50	43.1	40.7	48.2	46.5	5.1	5.8	No	No	No	No
1371	97 KELSO STREET SINGLETON	Residential	55	50	43.8	41.4	47.2	45.4	3.4	4.0	No	No	No	No
1372	95 KELSO STREET SINGLETON	Residential	55	50	45.5	43.0	44.6	42.6	-0.9	-0.4	No	No	No	No
1373	8 WADDELLS AVENUE SINGLETON	Residential	55	50	46.9	44.5	54.4	52.8	7.5	8.3	Yes	No	Yes	Yes
1373	8 WADDELLS AVENUE SINGLETON*	Residential	55	50	41.0	38.6	53.1	51.5	12.1	12.9				

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1374	47 ORCHARD AVENUE SINGLETON	Residential	55	50	44.4	42.0	47.3	45.6	2.9	3.6	No	No	No	No
1375	33 ADA STREET SINGLETON	Residential	55	50	42.7	40.3	48.0	46.3	5.3	6.0	No	No	No	No
1376	38 ADA STREET SINGLETON	Residential	55	50	42.2	39.8	48.8	47.1	6.6	7.3	No	No	No	No
1377	49 ORCHARD AVENUE SINGLETON	Residential	55	50	48.0	45.6	47.0	45.0	-1.0	-0.6	No	No	No	No
1378	51 ORCHARD AVENUE SINGLETON	Residential	55	50	47.4	45.0	46.8	44.9	-0.6	-0.1	No	No	No	No
1379	58 KELSO STREET SINGLETON	Residential	55	50	44.3	41.9	47.5	45.7	3.2	3.8	No	No	No	No
1380	6 WADDELLS AVENUE SINGLETON	Residential	55	50	46.9	44.5	54.4	52.7	7.5	8.2	Yes	No	No	Yes
1381	63 BUCHAN AVENUE SINGLETON	Residential	55	50	43.0	40.6	47.5	45.8	4.5	5.2	No	No	No	No
1382	36 ADA STREET SINGLETON	Residential	55	50	42.6	40.2	50.6	48.9	8.0	8.7	No	No	No	No
1383	4 WADDELLS AVENUE SINGLETON	Residential	55	50	46.2	43.8	54.3	52.6	8.1	8.8	Yes	No	No	Yes
1384	31 ADA STREET SINGLETON	Residential	55	50	39.7	37.2	50.4	48.7	10.7	11.5	No	No	No	No
1385	61 BUCHAN AVENUE SINGLETON	Residential	55	50	41.6	39.2	47.7	46.0	6.1	6.8	No	No	No	No
1386	56 KELSO STREET SINGLETON	Residential	55	50	44.3	41.9	47.5	45.7	3.2	3.8	No	No	No	No
1387	59 BUCHAN AVENUE SINGLETON	Residential	55	50	43.5	41.1	48.2	46.4	4.7	5.3	No	No	No	No
1388	85 KELSO STREET SINGLETON	Residential	55	50	45.1	42.6	44.9	43.0	-0.2	0.4	No	No	No	No
1389	2 WADDELLS AVENUE SINGLETON	Residential	55	50	46.1	43.7	54.3	52.6	8.2	8.9	Yes	No	Yes	Yes
1389	2 WADDELLS AVENUE SINGLETON*	Residential	55	50	40.3	37.8	51.9	50.3	11.6	12.5				
1390	85 KELSO STREET SINGLETON	Residential	55	50	42.7	40.3	51.3	49.7	8.6	9.4	No	No	Yes	Yes
1390	85 KELSO STREET SINGLETON*	Residential	55	50	37.7	35.2	50.9	49.2	13.2	14.0				
1391	54 KELSO STREET SINGLETON	Residential	55	50	43.9	41.5	47.5	45.7	3.6	4.2	No	No	No	No
1392	57 BUCHAN AVENUE SINGLETON	Residential	55	50	43.5	41.1	47.9	46.2	4.4	5.1	No	No	No	No
1393	55 BUCHAN AVENUE SINGLETON	Residential	55	50	41.8	39.3	48.4	46.7	6.6	7.4	No	No	No	No
1394	52 KELSO STREET SINGLETON	Residential	55	50	43.6	41.1	47.6	45.8	4.0	4.7	No	No	No	No
1395	85 KELSO STREET SINGLETON	Residential	55	50	38.6	36.2	46.0	44.3	7.4	8.1	No	No	No	No
1396	50 KELSO STREET SINGLETON	Residential	55	50	43.7	41.2	47.9	46.2	4.2	5.0	No	No	No	No
1397	83 KELSO STREET SINGLETON	Residential	55	50	40.5	38.1	47.4	45.7	6.9	7.6	No	No	No	No
1398	83 KELSO STREET SINGLETON	Residential	55	50	43.2	40.7	51.5	49.8	8.3	9.1	No	No	No	No
1399	46 KELSO STREET SINGLETON	Residential	55	50	43.1	40.7	48.2	46.5	5.1	5.8	No	No	No	No
1400	81 KELSO STREET SINGLETON	Residential	55	50	41.3	38.9	50.5	48.8	9.2	9.9	No	No	No	No
1401	44 KELSO STREET SINGLETON	Residential	55	50	42.6	40.2	47.9	46.2	5.3	6.0	No	No	No	No
1402	79 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	50.7	49.1	7.5	8.3	No	No	No	No
1403	42 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	48.3	46.6	5.1	5.8	No	No	No	No
1404	77 KELSO STREET SINGLETON	Residential	55	50	44.3	41.8	50.9	49.2	6.6	7.4	No	No	No	No
1405	75 KELSO STREET SINGLETON	Residential	55	50	41.5	39.0	48.2	46.5	6.7	7.5	No	No	No	No
1406	40 KELSO STREET SINGLETON	Residential	55	50	43.1	40.6	47.9	46.2	4.8	5.6	No	No	No	No
1407	38 KELSO STREET SINGLETON	Residential	55	50	42.8	40.4	47.8	46.1	5.0	5.7	No	No	No	No
1409	36 KELSO STREET SINGLETON	Residential	55	50	42.7	40.2	47.5	45.8	4.8	5.6	No	No	No	No
1410	73 KELSO STREET SINGLETON	Residential	55	50	40.2	37.7	47.6	46.0	7.4	8.3	No	No	No	No
1411	16 ADA STREET SINGLETON	Residential	55	50	44.6	42.2	51.4	49.8	6.8	7.6	No	No	No	No
1412	71 KELSO STREET SINGLETON	Residential	55	50	42.2	39.8	48.9	47.2	6.7	7.4	No	No	No	No
1413	34 KELSO STREET SINGLETON	Residential	55	50	42.2	39.8	47.5	45.8	5.3	6.0	No	No	No	No
1414	14 ADA STREET SINGLETON	Residential	55	50	44.8	42.4	50.8	49.1	6.0	6.7	No	No	No	No
1415	69 KELSO STREET SINGLETON	Residential	55	50	43.4	41.0	48.6	46.9	5.2	5.9	No	No	No	No
1416	13 ADA STREET SINGLETON	Residential	55	50	44.6	42.1	53.3	51.6	8.7	9.5	Yes	No	Yes	Yes
1416	13 ADA STREET SINGLETON*	Residential	55	50	37.8	35.3	49.9	48.2	12.1	12.9				
1417	2 DEAKIN AVENUE SINGLETON	Residential	55	50	39.0	36.3	46.7	45.1	7.7	8.8	No	No	No	No
1418	12 ADA STREET SINGLETON	Residential	55	50	42.7	40.3	49.5	47.8	6.8	7.5	No	No	No	No
1419	32A KELSO STREET SINGLETON	Residential	55	50	42.9	40.5	47.5	45.8	4.6	5.3	No	No	No	No
1420	67 KELSO STREET SINGLETON	Residential	55	50	42.5	40.0	48.4	46.7	5.9	6.7	No	No	No	No
1421	12 ADA STREET SINGLETON	Residential	55	50	41.1	38.7	48.4	46.7	7.3	8.0	No	No	No	No
1422	11 ADA STREET SINGLETON	Residential	55	50	43.3	40.9	53.0	51.3	9.7	10.4	Yes	No	Yes	Yes
1422	11 ADA STREET SINGLETON*	Residential	55	50	36.2	33.7	48.6	47.0	12.4	13.3				
1424	65 KELSO STREET SINGLETON	Residential	55	50	42.7	40.3	48.3	46.6	5.6	6.3	No	No	No	No
1425	10 ADA STREET SINGLETON	Residential	55	50	43.4	41.0	50.4	48.7	7.0	7.7	No	No	No	No
1426	9 ADA STREET SINGLETON	Residential	55	50	44.0	41.6	52.8	51.2	8.8	9.6	Yes	No	Yes	Yes
1426	9 ADA STREET SINGLETON*	Residential	55	50	38.0	35.5	49.9	48.2	11.9	12.7				
1427	8 ADA STREET SINGLETON	Residential	55	50	43.0	40.6	50.1	48.4	7.1	7.8	No	No	No	No
1428	15 ADA STREET SINGLETON	Residential	55	50	43.6	41.2	57.9	56.2	14.3	15.0	Yes	Yes	Yes	Yes
1429	63 KELSO STREET SINGLETON	Residential	55	50	39.5	37.1	46.4	44.7	6.9	7.6	No	No	No	No
1431	30 KELSO STREET SINGLETON	Residential	55	50	42.5	40.0	47.5	45.8	5.0	5.8	No	No	No	No
1432	6 ADA STREET SINGLETON	Residential	55	50	42.5	40.0	49.0	47.4	6.5	7.4	No	No	No	No
1433	4 ADA STREET SINGLETON	Residential	55	50	41.4	38.9	45.8	44.1	4.4	5.2	No	No	No	No
1434	61 KELSO STREET SINGLETON	Residential	55	50	37.5	34.9	45.8	44.1	8.3	9.2	No	No	No	No
1436	7 ADA STREET SINGLETON	Residential	55	50	43.8	41.4	52.3	50.6	8.5	9.2	Yes	No	Yes	Yes
1436	7 ADA STREET SINGLETON*	Residential	55	50	35.7	33.1	47.0	45.4	11.3	12.3				
1437	4 ADA STREET SINGLETON	Residential	55	50	42.9	40.5	48.4	46.7	5.5	6.2	No	No	No	No
1439	26 KELSO STREET SINGLETON	Residential	55	50	39.2	36.5	47.3	45.6	8.1	9.1	No	No	No	No
1440	2 ADA STREET SINGLETON	Residential	55	50	42.5	40.1	48.0	46.3	5.5	6.2	No	No	No	No
1441	5 ADA STREET SINGLETON	Residential	55	50	44.0	41.6	52.5	50.8	8.5	9.2	Yes	No	No	Yes
1442	59 KELSO STREET SINGLETON	Residential	55	50	40.6	38.1	46.8	45.2	6.2	7.1	No	No	No	No
1443	3 ADA STREET SINGLETON	Residential	55	50	39.9	37.5	51.3	49.7	11.4	12.2	No	No	Yes	Yes
1444	57 KELSO STREET SINGLETON	Residential	55	50	41.3	38.9	46.9	45.2	5.6	6.3	No	No	No	No
1445	6 BOND STREET SINGLETON	Residential	55	50	43.1	40.7	46.3	44.6	3.2	3.9	No	No	No	No
1446	1A ADA STREET SINGLETON	Residential	55	50	42.9	40.4	51.8	50.2	8.9	9.8	No	No	No	No
1447	4 BOND STREET SINGLETON	Residential	55	50	42.9	40.5	47.4	45.6	4.5	5.1	No	No	No	No
1448	55 KELSO STREET SINGLETON	Residential	55	50	40.3	37.9	47.5	45.8	7.2	7.9	No	No	No	No
1449	2 BOND STREET SINGLETON	Residential	55	50	41.4	39.0	48.9	47.2	7.5	8.2	No	No	No	No
1452	53 KELSO STREET SINGLETON	Residential	55	50	40.5	38.1	47.5	45.8	7.0	7.7	No	No	No	No
1454	51 KELSO STREET SINGLETON	Residential	55	50	41.0	38.6	47.2	45.5	6.2	6.9	No	No	No	No
1455	1 ADA STREET SINGLETON	Residential	55	50	44.6	42.1	55.3	53.6	10.7	11.5	Yes	No	Yes	Yes
1455	1 ADA STREET SINGLETON*	Residential	55	50	36.5	33.9	52.9	51.3	16.4	17.4				
1456	2 ROSE AVENUE SINGLETON	Residential	55	50	44.8	42.4	50.9	49.2	6.1	6.8	No	No	No	No
1457	40 ANDREW STREET SINGLETON	Residential	55	50	41.1	38.7	48.2	46.5	7.1	7.8	No	No	No	No
1458	6 ROSE AVENUE SINGLETON	Residential	55	50	45.5	43.1	51.4	49.7	5.9	6.6	No	No	No	No
1459	4 ROSE AVENUE SINGLETON	Residential	55	50	45.0	42.6	49.4	47.6	4.4	5.0	No	No	No	No
1460	38 ANDREW STREET SINGLETON	Residential	55	50	38.2	35.8	47.2	45.5	9.0	9.7	No	No	No	No
1462	10 ROSE AVENUE SINGLETON	Residential	55	50	46.2	43.8	51.4	49.7	5.2	5.9	No	No	Yes	Yes
1462	10 ROSE AVENUE SINGLETON*	Residential	55	50	36.0	33.4	47.8	46.1	11.8	12.7				
1463	8 ROSE AVENUE SINGLETON	Residential	55	50	45.5	43.1	51.1	49.4	5.6	6.3	No	No	No	No
1464	36 ANDREW STREET SINGLETON	Residential	55	50	39.2	36.7	47.2	45.5	8.0	8.8	No	No	No	No
1465	12 ROSE AVENUE SINGLETON	Residential	55	50	46.5	44.1	52.7	51.0	6.2	6.9	Yes	No	Yes	Yes
1465	12 ROSE AVENUE SINGLETON*	Residential	55	50	37.3	34.7	49.5	47.8	12.2	13.1				
1466	16 ROSE AVENUE SINGLETON	Residential	55	50	45.9	43.4	50.9	49.2	5.0	5.8	No	No	Yes	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1466	16 ROSE AVENUE SINGLETON*	Residential	55	50	36.7	34.0	49.9	48.3	13.2	14.3				
1467	14 ROSE AVENUE SINGLETON	Residential	55	50	46.4	44.0	52.3	50.6	5.9	6.6	Yes	No	Yes	Yes
1467	14 ROSE AVENUE SINGLETON*	Residential	55	50	37.1	34.5	50.2	48.6	13.1	14.1				
1468	18 ROSE AVENUE SINGLETON	Residential	55	50	44.8	42.4	51.5	49.9	6.7	7.5	No	No	Yes	Yes
1468	18 ROSE AVENUE SINGLETON*	Residential	55	50	37.0	34.3	48.8	47.2	11.8	12.9				
1469	20 ROSE AVENUE SINGLETON	Residential	55	50	44.3	41.8	50.9	49.2	6.6	7.4	No	No	Yes	Yes
1469	20 ROSE AVENUE SINGLETON*	Residential	55	50	37.4	34.8	49.6	47.9	12.2	13.1				
1470	13 RENSHAW AVENUE SINGLETON	Residential	55	50	43.7	41.2	55.7	54.0	12.0	12.8	Yes	No	Yes	Yes
1471	35 ANDREW STREET SINGLETON	Residential	55	50	43.6	41.1	46.3	44.6	2.7	3.5	No	No	No	No
1472	3 ROSE AVENUE SINGLETON	Residential	55	50	44.5	42.1	46.7	44.9	2.2	2.8	No	No	No	No
1473	5 ROSE AVENUE SINGLETON	Residential	55	50	45.4	42.9	47.4	45.6	2.0	2.7	No	No	No	No
1474	26 VIEW STREET SINGLETON	Residential	55	50	45.9	43.5	49.8	48.1	3.9	4.6	No	No	No	No
1475	32 ANDREW STREET SINGLETON	Residential	55	50	40.8	38.4	46.7	45.0	5.9	6.6	No	No	No	No
1476	1 RENSHAW AVENUE SINGLETON	Residential	55	50	42.6	40.2	55.5	53.9	12.9	13.7	Yes	No	Yes	Yes
1477	32 ANDREW STREET SINGLETON	Residential	55	50	40.7	38.3	46.5	44.8	5.8	6.5	No	No	No	No
1478	29 VIEW STREET SINGLETON	Residential	55	50	43.2	40.7	53.4	51.8	10.2	11.1	Yes	No	Yes	Yes
1478	29 VIEW STREET SINGLETON*	Residential	55	50	33.8	31.3	49.1	47.4	15.3	16.1				
1479	2 RENSHAW AVENUE SINGLETON	Residential	55	50	42.6	40.1	52.8	51.2	10.2	11.1	Yes	No	Yes	Yes
1479	2 RENSHAW AVENUE SINGLETON*	Residential	55	50	37.8	35.3	49.3	47.6	11.5	12.3				
1480	32 ANDREW STREET SINGLETON	Residential	55	50	40.0	37.6	46.3	44.6	6.3	7.0	No	No	No	No
1482	33 ANDREW STREET SINGLETON	Residential	55	50	40.4	37.9	45.2	43.5	4.8	5.6	No	No	No	No
1483	24 VIEW STREET SINGLETON	Residential	55	50	42.8	40.3	49.2	47.5	6.4	7.2	No	No	No	No
1484	32 ANDREW STREET SINGLETON	Residential	55	50	40.4	38.0	46.1	44.4	5.7	6.4	No	No	No	No
1485	3 RENSHAW AVENUE SINGLETON	Residential	55	50	41.8	39.3	55.4	53.7	13.6	14.4	Yes	No	Yes	Yes
1486	30 ANDREW STREET SINGLETON	Residential	55	50	41.1	38.7	46.1	44.4	5.0	5.7	No	No	No	No
1487	27 VIEW STREET SINGLETON	Residential	55	50	38.1	35.5	52.9	51.2	14.8	15.7	Yes	No	Yes	Yes
1488	4 RENSHAW AVENUE SINGLETON	Residential	55	50	41.7	39.2	52.9	51.3	11.2	12.1	Yes	No	Yes	Yes
1490	6 RENSHAW AVENUE SINGLETON	Residential	55	50	42.4	40.0	53.1	51.5	10.7	11.5	Yes	No	Yes	Yes
1490	6 RENSHAW AVENUE SINGLETON*	Residential	55	50	35.3	32.8	50.5	48.9	15.2	16.1				
1491	22 VIEW STREET SINGLETON	Residential	55	50	41.2	38.8	48.6	46.9	7.4	8.1	No	No	No	No
1492	43 KELSO STREET SINGLETON	Residential	55	50	37.9	35.1	46.0	44.4	8.1	9.3	No	No	No	No
1493	5 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	55.3	53.6	13.3	14.1	Yes	No	Yes	Yes
1494	25 VIEW STREET SINGLETON	Residential	55	50	38.0	35.4	52.1	50.5	14.1	15.1	Yes	No	Yes	Yes
1495	8 RENSHAW AVENUE SINGLETON	Residential	55	50	40.9	38.4	53.3	51.6	12.4	13.2	Yes	No	Yes	Yes
1496	20 VIEW STREET SINGLETON	Residential	55	50	44.3	41.9	50.2	48.5	5.9	6.6	No	No	No	No
1497	7 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	55.1	53.4	13.1	13.9	Yes	No	Yes	Yes
1498	29 ANDREW STREET SINGLETON	Residential	55	50	41.0	38.6	45.7	44.0	4.7	5.4	No	No	No	No
1499	23 VIEW STREET SINGLETON	Residential	55	50	41.8	39.4	53.1	51.4	11.3	12.0	Yes	No	Yes	Yes
1500	10 RENSHAW AVENUE SINGLETON	Residential	55	50	41.9	39.5	53.5	51.8	11.6	12.3	Yes	No	Yes	Yes
1501	36A VICTORIA STREET GLENRIDDING	Residential	55	50	42.6	40.2	60.0	58.4	17.4	18.2	Yes	Yes	Yes	Yes
1502	9 RENSHAW AVENUE SINGLETON	Residential	55	50	42.7	40.2	54.8	53.1	12.1	12.9	Yes	No	Yes	Yes
1503	18 VIEW STREET SINGLETON	Residential	55	50	43.5	41.0	49.9	48.3	6.4	7.3	No	No	No	No
1504	21 VIEW STREET SINGLETON	Residential	55	50	42.7	40.2	53.5	51.8	10.8	11.6	Yes	No	Yes	Yes
1504	21 VIEW STREET SINGLETON*	Residential	55	50	32.5	30.0	45.5	43.9	13.0	13.9				
1505	28 ANDREW STREET SINGLETON	Residential	55	50	41.2	38.7	45.7	44.0	4.5	5.3	No	No	No	No
1507	19 VIEW STREET SINGLETON	Residential	55	50	39.2	36.7	52.9	51.3	13.7	14.6	Yes	No	Yes	Yes
1508	12 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	53.3	51.7	11.3	12.2	Yes	No	Yes	Yes
1509	11 RENSHAW AVENUE SINGLETON	Residential	55	50	36.2	33.6	51.1	49.4	14.9	15.8	No	No	Yes	Yes
1511	27 ANDREW STREET SINGLETON	Residential	55	50	42.1	39.6	46.5	44.8	4.4	5.2	No	No	No	No
1512	16 VIEW STREET SINGLETON	Residential	55	50	43.3	40.8	50.5	48.8	7.2	8.0	No	No	No	No
1513	26 ANDREW STREET SINGLETON	Residential	55	50	41.8	39.3	46.2	44.5	4.4	5.2	No	No	No	No
1514	17 VIEW STREET SINGLETON	Residential	55	50	44.0	41.5	53.8	52.2	9.8	10.7	Yes	No	Yes	Yes
1514	17 VIEW STREET SINGLETON*	Residential	55	50	37.3	34.6	50.2	48.5	12.9	13.9				
1515	14 RENSHAW AVENUE SINGLETON	Residential	55	50	42.5	40.1	53.1	51.4	10.6	11.3	Yes	No	Yes	Yes
1515	14 RENSHAW AVENUE SINGLETON*	Residential	55	50	37.0	34.5	48.3	46.7	11.3	12.2				
1516	25 ANDREW STREET SINGLETON	Residential	55	50	42.1	39.6	47.4	45.7	5.3	6.1	No	No	No	No
1517	14 VIEW STREET SINGLETON	Residential	55	50	42.8	40.3	50.3	48.6	7.5	8.3	No	No	No	No
1518	22 RENSHAW AVENUE SINGLETON	Residential	55	50	42.6	40.1	55.7	54.0	13.1	13.9	Yes	No	Yes	Yes
1519	20 RENSHAW AVENUE SINGLETON	Residential	55	50	41.9	39.5	51.8	50.2	9.9	10.7	No	No	Yes	Yes
1519	20 RENSHAW AVENUE SINGLETON*	Residential	55	50	37.6	35.0	51.1	49.5	13.5	14.5				
1520	18 RENSHAW AVENUE SINGLETON	Residential	55	50	41.2	38.8	51.0	49.4	9.8	10.6	No	No	Yes	Yes
1520	18 RENSHAW AVENUE SINGLETON*	Residential	55	50	36.6	34.0	50.2	48.5	13.6	14.5				
1521	15 VIEW STREET SINGLETON	Residential	55	50	43.7	41.3	53.7	52.1	10.0	10.8	Yes	No	Yes	Yes
1521	15 VIEW STREET SINGLETON*	Residential	55	50	35.3	32.8	49.2	47.6	13.9	14.8				
1522	23 ANDREW STREET SINGLETON	Residential	55	50	40.9	38.4	47.4	45.7	6.5	7.3	No	No	No	No
1523	24 ANDREW STREET SINGLETON	Residential	55	50	41.6	39.0	45.1	43.4	3.5	4.4	No	No	No	No
1524	16 RENSHAW AVENUE SINGLETON	Residential	55	50	44.8	42.3	55.2	53.5	10.4	11.2	Yes	No	Yes	Yes
1524	16 RENSHAW AVENUE SINGLETON*	Residential	55	50	36.7	33.9	51.3	49.7	14.6	15.8				
1525	12 VIEW STREET SINGLETON	Residential	55	50	41.2	38.7	48.3	46.6	7.1	7.9	No	No	No	No
1526	13 VIEW STREET SINGLETON	Residential	55	50	42.8	40.4	53.6	51.9	10.8	11.5	Yes	No	Yes	Yes
1526	13 VIEW STREET SINGLETON*	Residential	55	50	35.6	33.1	49.8	48.2	14.2	15.1				
1527	12 RAILWAY STREET SINGLETON	Residential	55	50	41.3	38.8	55.2	53.5	13.9	14.7	Yes	No	Yes	Yes
1528	21 ANDREW STREET SINGLETON	Residential	55	50	39.3	36.8	46.9	45.2	7.6	8.4	No	No	No	No
1529	22 ANDREW STREET SINGLETON	Residential	55	50	40.8	38.3	45.9	44.2	5.1	5.9	No	No	No	No
1530	20 ANDREW STREET SINGLETON	Residential	55	50	40.1	37.6	45.7	44.0	5.6	6.4	No	No	No	No
1531	10 VIEW STREET SINGLETON	Residential	55	50	40.7	38.2	49.0	47.3	8.3	9.1	No	No	No	No
1532	10 RAILWAY STREET SINGLETON	Residential	55	50	40.4	37.8	55.2	53.5	14.8	15.7	Yes	No	Yes	Yes
1533	11 VIEW STREET SINGLETON	Residential	55	50	43.2	40.7	54.2	52.6	11.0	11.9	Yes	No	Yes	Yes
1533	11 VIEW STREET SINGLETON*	Residential	55	50	36.5	34.0	50.1	48.4	13.6	14.4				
1534	19 ANDREW STREET SINGLETON	Residential	55	50	40.1	37.6	47.1	45.4	7.0	7.8	No	No	No	No
1535	8 VIEW STREET SINGLETON	Residential	55	50	40.5	38.0	49.1	47.4	8.6	9.4	No	No	No	No
1536	17 ANDREW STREET SINGLETON	Residential	55	50	37.7	35.1	46.7	45.0	9.0	9.9	No	No	No	No
1537	18 ANDREW STREET SINGLETON	Residential	55	50	39.7	37.2	45.6	44.0	5.9	6.8	No	No	No	No
1538	8B RAILWAY STREET SINGLETON	Residential	55	50	41.9	39.3	54.2	52.6	12.3	13.3	Yes	No	Yes	Yes
1539	9 VIEW STREET SINGLETON	Residential	55	50	40.1	37.6	53.4	51.8	13.3	14.2	Yes	No	Yes	Yes
1540	6 VIEW STREET SINGLETON	Residential	55	50	39.6	37.1	48.3	46.6	8.7	9.5	No	No	No	No
1542	8 RAILWAY STREET SINGLETON	Residential	55	50	40.9	38.3	54.6	52.9	13.7	14.6	Yes	No	Yes	Yes
1543	7 VIEW STREET SINGLETON	Residential	55	50	40.5	38.1	52.8	51.2	12.3	13.1	Yes	No	Yes	Yes
1544	16 ANDREW STREET SINGLETON	Residential	55	50	38.3	35.5	46.1	44.4	7.8	8.9	No	No	No	No
1545	15 ANDREW STREET SINGLETON	Residential	55	50	39.5	36.9	46.7	45.0	7.2	8.1	No	No	No	No
1549	2 SCOTT STREET SINGLETON	Residential	55	50	39.7	37.0	54.4	52.8	14.7	15.8	Yes	No	Yes	Yes
1550	5 VIEW STREET SINGLETON	Residential	55	50	42.7	40.2	54.1	52.4	11.4	12.2	Yes	No	Yes	Yes
1553	4 VIEW STREET SINGLETON	Residential	55	50	38.6	36.0	47.8	46.1	9.2	10.1	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1555	3A VIEW STREET SINGLETON	Residential	55	50	38.5	35.9	53.2	51.6	14.7	15.7	Yes	No	Yes	Yes
1556	13 ANDREW STREET SINGLETON	Residential	55	50	38.8	36.0	46.7	45.0	7.9	9.0	No	No	No	No
1558	14A ANDREW STREET SINGLETON	Residential	55	50	42.0	39.4	45.7	44.0	3.7	4.6	No	No	No	No
1559	2 SCOTT STREET SINGLETON	Residential	55	50	40.9	38.3	54.5	52.8	13.6	14.5	Yes	No	Yes	Yes
1560	3 VIEW STREET SINGLETON	Residential	55	50	41.2	38.7	53.9	52.3	12.7	13.6	Yes	No	Yes	Yes
1561	2A VIEW STREET SINGLETON	Residential	55	50	38.5	36.0	48.9	47.2	10.4	11.2	No	No	Yes	Yes
1561	2A VIEW STREET SINGLETON*	Residential	55	50	31.7	29.1	43.8	42.2	12.1	13.1				
1562	14 ANDREW STREET SINGLETON	Residential	55	50	39.2	36.7	46.2	44.5	7.0	7.8	No	No	No	No
1563	2 VIEW STREET SINGLETON	Residential	55	50	39.2	36.4	50.0	48.3	10.8	11.9	No	No	No	No
1564	9-11 ANDREW STREET SINGLETON	Residential	55	50	37.8	35.0	46.8	45.1	9.0	10.1	No	No	No	No
1565	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	41.4	38.9	54.2	52.5	12.8	13.6	Yes	No	Yes	Yes
1566	12 ANDREW STREET SINGLETON	Residential	55	50	39.5	36.9	46.4	44.7	6.9	7.8	No	No	No	No
1567	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	40.7	38.2	56.0	54.3	15.3	16.1	Yes	No	Yes	Yes
1568	68 CHURCH STREET SINGLETON	Residential	55	50	37.3	34.7	46.9	45.2	9.6	10.5	No	No	No	No
1569	70 CHURCH STREET SINGLETON	Residential	55	50	39.3	36.7	49.8	48.1	10.5	11.4	No	No	No	No
1570	66 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.2	46.5	44.9	7.7	8.7	No	No	No	No
1572	55 CHURCH STREET GLENRIDDING	Residential	55	50	40.8	38.3	57.1	55.5	16.3	17.2	Yes	Yes	Yes	Yes
1573	64 CHURCH STREET SINGLETON	Residential	55	50	37.3	34.5	45.6	43.9	8.3	9.4	No	No	No	No
1575	56 CHURCH STREET SINGLETON	Residential	55	50	38.7	36.0	46.9	45.3	8.2	9.3	No	No	No	No
1576	60 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.0	46.7	45.0	7.9	9.0	No	No	No	No
1577	62 CHURCH STREET SINGLETON	Residential	55	50	37.9	35.1	45.7	44.1	7.8	9.0	No	No	No	No
1578	31 VICTORIA STREET GLENRIDDING	Residential	55	50	39.6	36.9	53.9	52.3	14.3	15.4	Yes	No	Yes	Yes
1580	56 CHURCH STREET SINGLETON	Residential	55	50	38.6	35.9	47.0	45.4	8.4	9.5	No	No	No	No
1582	47 CHURCH STREET SINGLETON	Residential	55	50	39.1	36.4	51.7	50.1	12.6	13.7	No	No	Yes	Yes
1584	30 VICTORIA STREET GLENRIDDING	Residential	55	50	37.5	34.8	53.2	51.6	15.7	16.8	Yes	No	Yes	Yes
1585	43 CHURCH STREET SINGLETON	Residential	55	50	38.7	35.9	50.2	48.5	11.5	12.6	No	No	Yes	Yes
1586	45 CHURCH STREET SINGLETON	Residential	55	50	39.9	37.1	50.8	49.2	10.9	12.1	No	No	Yes	Yes
1588	41 CHURCH STREET SINGLETON	Residential	55	50	38.7	35.9	45.8	44.1	7.1	8.2	No	No	No	No
1589	39A CHURCH STREET SINGLETON	Residential	55	50	39.0	36.1	48.7	47.1	9.7	11.0	No	No	No	No
1591	29 VICTORIA STREET GLENRIDDING	Residential	55	50	38.1	35.3	53.2	51.6	15.1	16.3	Yes	No	Yes	Yes
1592	37 CHURCH STREET SINGLETON	Residential	55	50	39.1	36.4	48.4	46.8	9.3	10.4	No	No	No	No
1593	41 CHURCH STREET SINGLETON	Residential	55	50	39.5	36.7	50.7	49.1	11.2	12.4	No	No	Yes	Yes
1594	35 CHURCH STREET SINGLETON	Residential	55	50	39.1	36.5	47.8	46.2	8.7	9.7	No	No	No	No
1595	28 VICTORIA STREET GLENRIDDING	Residential	55	50	38.7	35.9	53.4	51.8	14.7	15.9	Yes	No	Yes	Yes
1597	30 CARRINGTON STREET GLENRIDDING	Residential	55	50	39.6	36.8	57.7	56.1	18.1	19.3	Yes	Yes	Yes	Yes
1598	17 KELSO STREET SINGLETON	Residential	55	50	39.9	37.4	47.4	45.7	7.5	8.3	No	No	No	No
1599	27 VICTORIA STREET GLENRIDDING	Residential	55	50	36.0	33.2	52.3	50.6	16.3	17.4	Yes	No	Yes	Yes
1600	8 ANDREW STREET SINGLETON	Residential	55	50	40.4	37.8	48.3	46.6	7.9	8.8	No	No	No	No
1601	26 VICTORIA STREET GLENRIDDING	Residential	55	50	39.5	36.7	53.5	51.9	14.0	15.2	Yes	No	Yes	Yes
1602	6 ANDREW STREET SINGLETON	Residential	55	50	39.6	37.0	48.1	46.5	8.5	9.5	No	No	No	No
1603	1 ANDREW STREET SINGLETON	Residential	55	50	39.5	36.9	50.2	48.5	10.7	11.6	No	No	No	No
1605	15 KELSO STREET SINGLETON	Residential	55	50	39.7	37.1	47.7	46.1	8.0	9.0	No	No	No	No
1606	25 VICTORIA STREET GLENRIDDING	Residential	55	50	40.2	37.5	53.2	51.6	13.0	14.1	Yes	No	Yes	Yes
1607	13 KELSO STREET SINGLETON	Residential	55	50	39.0	36.4	48.2	46.5	9.2	10.1	No	No	No	No
1608	11 KELSO STREET SINGLETON	Residential	55	50	39.6	37.0	48.3	46.6	8.7	9.6	No	No	No	No
1609	23 VICTORIA STREET GLENRIDDING	Residential	55	50	40.1	37.4	53.1	51.4	13.0	14.0	Yes	No	Yes	Yes
1610	4 ANDREW STREET SINGLETON	Residential	55	50	39.4	36.9	49.0	47.3	9.6	10.4	No	No	No	No
1611	9 KELSO STREET SINGLETON	Residential	55	50	39.1	36.5	47.9	46.2	8.8	9.7	No	No	No	No
1614	7 KELSO STREET SINGLETON	Residential	55	50	39.7	37.2	48.3	46.7	8.6	9.5	No	No	No	No
1615	2 ANDREW STREET SINGLETON	Residential	55	50	38.9	36.3	49.0	47.4	10.1	11.1	No	No	No	No
1616	5 KELSO STREET SINGLETON	Residential	55	50	40.7	38.1	48.7	47.1	8.0	9.0	No	No	No	No
1620	3 KELSO STREET SINGLETON	Residential	55	50	40.2	37.6	48.3	46.6	8.1	9.0	No	No	No	No
1622	10 CROWN STREET GLENRIDDING	Residential	55	50	39.9	37.1	56.1	54.4	16.2	17.3	Yes	No	Yes	Yes
1623	35 CARRINGTON STREET GLENRIDDING	Residential	55	50	41.2	38.4	56.7	55.0	15.5	16.6	Yes	Yes	Yes	Yes
1626	48 ARMY CAMP ROAD GLENRIDDING	Residential	55	50	46.2	43.4	53.8	52.2	7.6	8.8	Yes	No	Yes	Yes
1626	48 ARMY CAMP ROAD GLENRIDDING*	Residential	55	50	40.3	37.6	51.9	50.3	11.6	12.7				
1630	8 KELSO STREET SINGLETON	Residential	55	50	40.0	37.4	48.3	46.7	8.3	9.3	No	No	No	No
1633	13 CROWN STREET GLENRIDDING	Residential	55	50	42.9	40.1	60.8	59.2	17.9	19.1	Yes	Yes	Yes	Yes
1634	19 VICTORIA STREET GLENRIDDING	Residential	55	50	39.2	36.4	52.0	50.4	12.8	14.0	No	No	Yes	Yes
1635	9 CROWN STREET GLENRIDDING	Residential	55	50	40.1	37.3	55.2	53.5	15.1	16.2	Yes	No	Yes	Yes
1636	33 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.2	39.4	57.8	56.2	15.6	16.8	Yes	Yes	Yes	Yes
1637	16 VICTORIA STREET GLENRIDDING	Residential	55	50	40.6	37.7	54.4	52.8	13.8	15.1	Yes	No	Yes	Yes
1638	9 ALBERT STREET SINGLETON	Residential	55	50	38.4	35.8	46.7	45.1	8.3	9.3	No	No	No	No
1639	16 ALBERT STREET SINGLETON	Residential	55	50	40.9	38.4	47.7	46.0	6.8	7.6	No	No	No	No
1640	18 VICTORIA STREET GLENRIDDING	Residential	55	50	41.9	39.1	52.8	51.2	10.9	12.1	Yes	No	Yes	Yes
1641	7 ALBERT STREET SINGLETON	Residential	55	50	39.2	36.6	47.7	46.1	8.5	9.5	No	No	No	No
1642	16 ALBERT STREET SINGLETON	Residential	55	50	41.4	38.9	46.5	44.8	5.1	5.9	No	No	No	No
1647	5 ALBERT STREET SINGLETON	Residential	55	50	38.3	35.7	47.8	46.1	9.5	10.4	No	No	No	No
1648	29 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.7	39.9	57.9	56.3	15.2	16.4	Yes	Yes	Yes	Yes
1649	13 WYNYARD STREET SINGLETON	Residential	55	50	39.4	36.8	47.5	45.9	8.1	9.1	No	No	No	No
1650	3 ALBERT STREET SINGLETON	Residential	55	50	39.8	37.3	48.3	46.7	8.5	9.4	No	No	No	No
1651	13 WYNYARD STREET SINGLETON	Residential	55	50	40.6	37.7	47.5	45.9	6.9	8.2	No	No	No	No
1653	1A ALBERT STREET SINGLETON	Residential	55	50	40.1	37.5	48.5	46.9	8.4	9.4	No	No	No	No
1654	12 ALBERT STREET SINGLETON	Residential	55	50	40.1	37.5	48.1	46.5	8.0	9.0	No	No	No	No
1658	15 VICTORIA STREET GLENRIDDING	Residential	55	50	39.8	37.3	50.7	49.0	10.9	11.7	No	No	Yes	Yes
1658	15 VICTORIA STREET GLENRIDDING*	Residential	55	50	36.2	33.7	50.0	48.3	13.8	14.6				
1659	25 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.5	40.7	57.8	56.1	14.3	15.4	Yes	Yes	Yes	Yes
1660	10 ALBERT STREET SINGLETON	Residential	55	50	40.7	38.1	48.3	46.7	7.6	8.6	No	No	No	No
1662	1 ALBERT STREET SINGLETON	Residential	55	50	39.9	37.3	49.4	47.8	9.5	10.5	No	No	No	No
1664	8 ALBERT STREET SINGLETON	Residential	55	50	40.7	38.1	48.7	47.0	8.0	8.9	No	No	No	No
1666	4 KELSO STREET SINGLETON	Residential	55	50	39.6	37.0	49.2	47.5	9.6	10.5	No	No	No	No
1667	2 KELSO STREET SINGLETON	Residential	55	50	41.8	39.0	51.5	49.8	9.7	10.8	No	No	Yes	Yes
1667	2 KELSO STREET SINGLETON*	Residential	55	50	40.3	37.6	51.5	49.8	11.2	12.2				
1668	3 RAWCLIFFE STREET SINGLETON	Residential	55	50	41.1	38.3	48.8	47.1	7.7	8.8	No	No	No	No
1671	21 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.9	41.1	57.4	55.7	13.5	14.6	Yes	Yes	Yes	Yes
1672	6 ALBERT STREET SINGLETON	Residential	55	50	40.6	38.0	48.8	47.1	8.2	9.1	No	No	No	No
1675	19 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.0	40.2	57.6	55.9	14.6	15.7	Yes	Yes	Yes	Yes
1677	15 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.2	42.4	59.6	58.0	14.4	15.6	Yes	Yes	Yes	Yes
1678	4 ALBERT STREET SINGLETON	Residential	55	50	41.4	38.8	49.8	48.2	8.4	9.4	No	No	No	No
1681	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	39.6	36.8	47.3	45.6	7.7	8.8	No	No	No	No
1682	9 WYNYARD STREET SINGLETON	Residential	55	50	37.9	35.2	48.4	46.8	10.5	11.6	No	No	No	No
1684	9 WYNYARD STREET SINGLETON	Residential	55	50	39.0	36.3	49.4	47.8	10.4	11.5	No	No	No	No
1685	13 CARRINGTON STREET GLENRIDDING	Residential	55	50	47.3	44.5	59.1	57.5	11.8	13.0	Yes	Yes	Yes	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1686	9 WYNYARD STREET SINGLETON	Residential	55	50	40.2	37.5	50.1	48.5	9.9	11.0	No	No	No	No
1687	14 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.1	40.3	55.7	54.1	12.6	13.8	Yes	No	Yes	Yes
1688	12 VICTORIA STREET GLENRIDDING	Residential	55	50	42.9	40.1	54.3	52.6	11.4	12.5	Yes	No	Yes	Yes
1689	9 WYNYARD STREET SINGLETON	Residential	55	50	41.3	38.7	50.7	49.0	9.4	10.3	No	No	No	No
1690	75 PUTTY ROAD GLENRIDDING	Residential	55	50	61.3	58.4	61.9	60.4	0.6	2.0	Yes	Yes	No	Yes
1692	12 CARRINGTON STREET GLENRIDDING	Residential	55	50	44.2	41.4	56.3	54.7	12.1	13.3	Yes	Yes	Yes	Yes
1693	32 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	56.4	53.5	61.8	60.3	5.4	6.8	Yes	Yes	Yes	Yes
1693	32 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	43.9	41.1	59.8	58.4	15.9	17.3				
1694	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	41.2	38.3	48.5	46.8	7.3	8.5	No	No	No	No
1695	10 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.6	40.8	56.5	54.9	12.9	14.1	Yes	Yes	Yes	Yes
1698	7 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.9	43.0	60.8	59.2	14.9	16.2	Yes	Yes	Yes	Yes
1700	69 BATHURST STREET SINGLETON	Residential	55	50	40.5	37.9	50.5	48.9	10.0	11.0	No	No	No	No
1701	8 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.1	42.3	57.7	56.1	12.6	13.8	Yes	Yes	Yes	Yes
1703	5 CARRINGTON STREET GLENRIDDING	Residential	55	50	48.4	45.6	60.9	59.4	12.5	13.8	Yes	Yes	Yes	Yes
1705	8 MUNRO LANE SINGLETON	Residential	55	50	41.6	38.9	52.1	50.5	10.5	11.6	Yes	No	No	Yes
1706	6 CARRINGTON STREET GLENRIDDING	Residential	55	50	50.1	47.2	58.9	57.3	8.8	10.1	Yes	Yes	Yes	Yes
1706	6 CARRINGTON STREET GLENRIDDING*	Residential	55	50	39.2	36.4	53.4	51.7	14.2	15.3				
1708	3 CARRINGTON STREET GLENRIDDING	Residential	55	50	54.3	51.5	62.5	61.1	8.2	9.6	Yes	Yes	Yes	Yes
1708	3 CARRINGTON STREET GLENRIDDING*	Residential	55	50	42.8	39.9	54.2	52.6	11.4	12.7				
1709	7 WYNYARD STREET SINGLETON	Residential	55	50	40.0	37.4	50.3	48.7	10.3	11.3	No	No	Yes	Yes
1709	7 WYNYARD STREET SINGLETON*	Residential	55	50	35.8	33.2	46.9	45.2	11.1	12.0				
1711	9 VICTORIA STREET GLENRIDDING	Residential	55	50	44.1	41.2	53.6	51.9	9.5	10.7	Yes	No	No	Yes
1713	7 WYNYARD STREET SINGLETON	Residential	55	50	40.7	38.0	49.8	48.2	9.1	10.2	No	No	No	No
1714	8 VICTORIA STREET GLENRIDDING	Residential	55	50	43.1	40.2	53.2	51.5	10.1	11.3	Yes	No	No	Yes
1715	67 BATHURST STREET SINGLETON	Residential	55	50	40.6	38.0	48.6	46.9	8.0	8.9	No	No	No	No
1717	5 WYNYARD STREET SINGLETON	Residential	55	50	41.4	38.7	51.1	49.4	9.7	10.7	No	No	No	No
1719	65 BATHURST STREET SINGLETON	Residential	55	50	41.5	38.6	47.7	46.0	6.2	7.4	No	No	No	No
1721	3 WYNYARD STREET SINGLETON	Residential	55	50	41.1	38.3	51.7	50.0	10.6	11.7	No	No	No	No
1722	7 VICTORIA STREET GLENRIDDING	Residential	55	50	45.1	42.2	54.1	52.5	9.0	10.3	Yes	No	No	Yes
1723	63 BATHURST STREET SINGLETON	Residential	55	50	41.7	38.9	48.2	46.6	6.5	7.7	No	No	No	No
1724	1 WYNYARD STREET SINGLETON	Residential	55	50	41.9	39.1	52.3	50.6	10.4	11.5	Yes	No	No	Yes
1725	8 WYNYARD STREET SINGLETON	Residential	55	50	40.8	38.1	49.0	47.4	8.2	9.3	No	No	No	No
1727	6 VICTORIA STREET GLENRIDDING	Residential	55	50	45.7	42.8	55.1	53.4	9.4	10.6	Yes	No	No	Yes
1728	61 BATHURST STREET SINGLETON	Residential	55	50	41.6	38.8	48.4	46.7	6.8	7.9	No	No	No	No
1729	6 WYNYARD STREET SINGLETON	Residential	55	50	40.8	38.2	49.3	47.7	8.5	9.5	No	No	No	No
1730	5 VICTORIA STREET GLENRIDDING	Residential	55	50	45.8	42.9	55.1	53.5	9.3	10.6	Yes	No	Yes	Yes
1730	5 VICTORIA STREET GLENRIDDING*	Residential	55	50	40.2	37.4	52.3	50.7	12.1	13.3				
1731	4 WYNYARD STREET SINGLETON	Residential	55	50	41.8	39.1	50.9	49.2	9.1	10.1	No	No	No	No
1732	59 BATHURST STREET SINGLETON	Residential	55	50	40.6	37.8	47.8	46.2	7.2	8.4	No	No	No	No
1733	4 VICTORIA STREET GLENRIDDING	Residential	55	50	44.2	41.3	53.9	52.2	9.7	10.9	Yes	No	No	Yes
1734	2 WYNYARD STREET SINGLETON	Residential	55	50	42.0	39.2	51.4	49.7	9.4	10.5	No	No	No	No
1735	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	48.2	45.3	56.7	55.0	8.5	9.7	Yes	Yes	Yes	Yes
1735	8 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	40.3	37.6	52.2	50.5	11.9	12.9				
1738	3 VICTORIA STREET GLENRIDDING	Residential	55	50	41.4	38.6	52.2	50.5	10.8	11.9	Yes	No	No	Yes
1739	76 PUTTY ROAD GLENRIDDING	Residential	55	50	43.3	40.4	54.3	52.6	11.0	12.2	Yes	No	Yes	Yes
1740	9 PARK STREET SINGLETON	Residential	55	50	41.3	38.7	48.6	46.9	7.3	8.2	No	No	No	No
1741	5 FREDERICK STREET SINGLETON	Residential	55	50	41.7	38.9	51.5	49.9	9.8	11.0	No	No	No	No
1742	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	54.0	51.1	58.9	57.3	4.9	6.2	Yes	Yes	Yes	Yes
1742	8 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	40.8	38.1	52.8	51.2	12.0	13.1				
1744	2 VICTORIA STREET GLENRIDDING	Residential	55	50	46.0	43.1	52.4	50.8	6.4	7.7	Yes	No	No	Yes
1745	7 PARK STREET SINGLETON	Residential	55	50	40.5	37.9	48.3	46.6	7.8	8.7	No	No	No	No
1746	57 BATHURST STREET SINGLETON	Residential	55	50	41.8	39.2	48.4	46.8	6.6	7.6	No	No	No	No
1747	7 FREDERICK STREET SINGLETON	Residential	55	50	42.1	39.2	49.6	48.0	7.5	8.8	No	No	No	No
1748	5 PARK STREET SINGLETON	Residential	55	50	41.3	38.6	48.5	46.8	7.2	8.2	No	No	No	No
1750	1 VICTORIA STREET GLENRIDDING	Residential	55	50	49.8	46.9	52.6	51.0	2.8	4.1	Yes	No	No	Yes
1751	3 PARK STREET SINGLETON	Residential	55	50	38.2	35.5	47.2	45.6	9.0	10.1	No	No	No	No
1752	1 PARK STREET SINGLETON	Residential	55	50	42.4	39.6	49.3	47.7	6.9	8.1	No	No	No	No
1753	9 FREDERICK STREET SINGLETON	Residential	55	50	43.5	40.7	49.7	48.1	6.2	7.4	No	No	No	No
1756	55 BATHURST STREET SINGLETON	Residential	55	50	41.1	38.2	47.8	46.2	6.7	8.0	No	No	No	No
1757	12 PARK STREET SINGLETON	Residential	55	50	41.9	39.3	48.4	46.8	6.5	7.5	No	No	No	No
1758	2 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	54.1	51.2	56.7	55.1	2.6	3.9	Yes	Yes	No	Yes
1760	53 BATHURST STREET SINGLETON	Residential	55	50	41.3	38.5	47.3	45.6	6.0	7.1	No	No	No	No
1761	10 PARK STREET SINGLETON	Residential	55	50	41.6	39.0	48.3	46.7	6.7	7.7	No	No	No	No
1762	11 FREDERICK STREET SINGLETON	Residential	55	50	43.3	40.5	49.6	48.0	6.3	7.5	No	No	No	No
1763	9 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	59.3	56.5	60.7	59.1	1.4	2.6	Yes	Yes	No	Yes
1764	8 PARK STREET SINGLETON	Residential	55	50	41.7	39.0	48.2	46.5	6.5	7.5	No	No	No	No
1765	44 BATHURST STREET SINGLETON	Residential	55	50	41.7	39.1	48.1	46.5	6.4	7.4	No	No	No	No
1766	6 PARK STREET SINGLETON	Residential	55	50	41.9	39.2	48.5	46.8	6.6	7.6	No	No	No	No
1767	23 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	45.5	42.7	55.7	54.1	10.2	11.4	Yes	No	Yes	Yes
1767	23 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	44.1	41.2	55.5	53.9	11.4	12.7				
1768	51 BATHURST STREET SINGLETON	Residential	55	50	40.2	37.3	47.0	45.4	6.8	8.1	No	No	No	No
1769	4 PARK STREET SINGLETON	Residential	55	50	41.6	38.9	49.0	47.3	7.4	8.4	No	No	No	No
1772	7 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	60.2	57.3	60.6	59.0	0.4	1.7	Yes	Yes	No	Yes
1773	2 PARK STREET SINGLETON	Residential	55	50	41.6	38.8	48.8	47.2	7.2	8.4	No	No	No	No
1774	25 HARRIETT STREET SINGLETON	Residential	55	50	41.7	39.0	47.9	46.3	6.2	7.3	No	No	No	No
1776	23 HARRIETT STREET SINGLETON	Residential	55	50	41.4	38.7	48.0	46.3	6.6	7.6	No	No	No	No
1777	49 BATHURST STREET SINGLETON	Residential	55	50	41.6	39.0	47.3	45.7	5.7	6.7	No	No	No	No
1778	44 BATHURST STREET SINGLETON	Residential	55	50	42.3	39.7	48.1	46.5	5.8	6.8	No	No	No	No
1780	2 WALTER STREET SINGLETON	Residential	55	50	48.3	45.5	53.3	51.6	5.0	6.1	Yes	No	No	Yes
1782	21 HARRIETT STREET SINGLETON	Residential	55	50	41.3	38.6	47.8	46.2	6.5	7.6	No	No	No	No
1783	13A FREDERICK STREET SINGLETON	Residential	55	50	42.9	40.1	48.8	47.1	5.9	7.0	No	No	No	No
1784	30 HARRIETT STREET SINGLETON	Residential	55	50	41.6	39.0	47.5	45.9	5.9	6.9	No	No	No	No
1786	19 HARRIETT STREET SINGLETON	Residential	55	50	41.5	38.8	48.1	46.5	6.6	7.7	No	No	No	No
1788	28 HARRIETT STREET SINGLETON	Residential	55	50	41.2	38.5	47.2	45.5	6.0	7.0	No	No	No	No
1790	32 BATHURST STREET SINGLETON	Residential	55	50	42.0	39.2	47.2	45.5	5.2	6.3	No	No	No	No
1791	17 HARRIETT STREET SINGLETON	Residential	55	50	40.5	37.8	47.2	45.6	6.7	7.8	No	No	No	No
1792	26 HARRIETT STREET SINGLETON	Residential	55	50	40.7	38.0	46.9	45.2	6.2	7.2	No	No	No	No
1793	47 BATHURST STREET SINGLETON	Residential	55	50	41.9	39.3	46.9	45.2	5.0	5.9	No	No	No	No
1794	3 DUDDING STREET SINGLETON	Residential	55	50	45.8	42.9	51.6	50.0	5.8	7.1	No	No	No	No
1795	7 DUDDING STREET SINGLETON	Residential	55	50	44.8	42.0	50.5	48.9	5.7	6.9	No	No	No	No
1796	5 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	56.8	53.9	57.7	56.1	0.9	2.2	Yes	Yes	No	Yes
1797	6 DUDDING STREET SINGLETON	Residential	55	50	42.2	39.4	48.1	46.4	5.9	7.0	No	No	No	No
1798	15 HARRIETT STREET SINGLETON	Residential	55	50	42.9	40.1	48.6	47.0	5.7	6.9	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1799	1 DUDDING STREET SINGLETON	Residential	55	50	46.3	43.5	52.1	50.5	5.8	7.0	Yes	No	No	Yes
1800	5 DUDDING STREET SINGLETON	Residential	55	50	45.4	42.6	51.1	49.5	5.7	6.9	No	No	No	No
1801	4 DUDDING STREET SINGLETON	Residential	55	50	42.1	39.3	47.7	46.0	5.6	6.7	No	No	No	No
1802	24 HARRIETT STREET SINGLETON	Residential	55	50	41.8	39.0	47.3	45.6	5.5	6.6	No	No	No	No
1803	26 HARRIETT STREET SINGLETON	Residential	55	50	41.1	38.2	46.6	44.9	5.5	6.7	No	No	No	No
1805	22 HARRIETT STREET SINGLETON	Residential	55	50	42.1	39.4	47.5	45.8	5.4	6.4	No	No	No	No
1806	45 BATHURST STREET SINGLETON	Residential	55	50	41.0	38.1	46.9	45.2	5.9	7.1	No	No	No	No
1808	4A DUDDING STREET SINGLETON	Residential	55	50	42.8	40.0	48.0	46.4	5.2	6.4	No	No	No	No
1809	20 HARRIETT STREET SINGLETON	Residential	55	50	42.0	39.3	47.6	45.9	5.6	6.6	No	No	No	No
1810	26 HARRIETT STREET SINGLETON	Residential	55	50	42.0	39.2	47.6	45.9	5.6	6.7	No	No	No	No
1811	43 BATHURST STREET SINGLETON	Residential	55	50	40.9	38.0	46.5	44.9	5.6	6.9	No	No	No	No
1812	2 DUDDING STREET SINGLETON	Residential	55	50	43.9	41.1	48.7	47.1	4.8	6.0	No	No	No	No
1813	3 LESLEY STREET SINGLETON	Residential	55	50	45.4	42.6	49.2	47.5	3.8	4.9	No	No	No	No
1814	2A DUDDING STREET SINGLETON	Residential	55	50	44.0	41.2	49.9	48.2	5.9	7.0	No	No	No	No
1815	11 HARRIETT STREET SINGLETON	Residential	55	50	42.9	40.2	47.6	46.0	4.7	5.8	No	No	No	No
1816	13 HARRIETT STREET SINGLETON	Residential	55	50	42.1	39.3	47.2	45.6	5.1	6.3	No	No	No	No
1817	16 HARRIETT STREET SINGLETON	Residential	55	50	42.4	39.7	48.0	46.4	5.6	6.7	No	No	No	No
1818	18 HARRIETT STREET SINGLETON	Residential	55	50	41.2	38.5	47.1	45.5	5.9	7.0	No	No	No	No
1819	41 BATHURST STREET SINGLETON	Residential	55	50	40.3	37.7	44.6	42.9	4.3	5.2	No	No	No	No
1820	29 ARGYLE STREET SINGLETON	Residential	55	50	39.6	37.0	46.1	44.4	6.5	7.4	No	No	No	No
1821	9 HARRIETT STREET SINGLETON	Residential	55	50	44.6	41.7	48.8	47.1	4.2	5.4	No	No	No	No
1822	1 LESLEY STREET SINGLETON	Residential	55	50	44.4	41.6	48.7	47.1	4.3	5.5	No	No	No	No
1823	7 HARRIETT STREET SINGLETON	Residential	55	50	44.1	41.2	49.4	47.8	5.3	6.6	No	No	No	No
1824	8 FREDERICK STREET SINGLETON	Residential	55	50	43.0	40.2	48.1	46.5	5.1	6.3	No	No	No	No
1825	25 ARGYLE STREET SINGLETON	Residential	55	50	41.9	39.2	47.4	45.7	5.5	6.5	No	No	No	No
1826	27 ARGYLE STREET SINGLETON	Residential	55	50	40.7	38.0	46.7	45.0	6.0	7.0	No	No	No	No
1827	5 HARRIETT STREET SINGLETON	Residential	55	50	42.9	40.1	47.9	46.3	5.0	6.2	No	No	No	No
1828	10 FREDERICK STREET SINGLETON	Residential	55	50	43.4	40.5	47.8	46.2	4.4	5.7	No	No	No	No
1829	12 HARRIETT STREET SINGLETON	Residential	55	50	43.2	40.4	47.9	46.3	4.7	5.9	No	No	No	No
1830	32 ARGYLE STREET SINGLETON	Residential	55	50	41.6	39.0	46.2	44.5	4.6	5.5	No	No	No	No
1831	23 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.9	47.5	45.9	5.9	7.0	No	No	No	No
1832	15 FREDERICK STREET SINGLETON	Residential	55	50	42.1	39.2	47.1	45.4	5.0	6.2	No	No	No	No
1834	3 HARRIETT STREET SINGLETON	Residential	55	50	42.7	39.8	47.8	46.2	5.1	6.4	No	No	No	No
1835	10 HARRIETT STREET SINGLETON	Residential	55	50	44.1	41.3	48.4	46.8	4.3	5.5	No	No	No	No
1836	30 ARGYLE STREET SINGLETON	Residential	55	50	41.3	38.7	46.6	44.9	5.3	6.2	No	No	No	No
1837	1 HARRIETT STREET SINGLETON	Residential	55	50	41.1	38.3	46.2	44.5	5.1	6.2	No	No	No	No
1838	28 ARGYLE STREET SINGLETON	Residential	55	50	40.8	38.1	46.5	44.8	5.7	6.7	No	No	No	No
1839	21 ARGYLE STREET SINGLETON	Residential	55	50	39.9	37.1	47.0	45.3	7.1	8.2	No	No	No	No
1841	12 FREDERICK STREET SINGLETON	Residential	55	50	44.3	41.4	48.5	46.8	4.2	5.4	No	No	No	No
1842	8 HARRIETT STREET SINGLETON	Residential	55	50	44.4	41.6	49.0	47.4	4.6	5.8	No	No	No	No
1843	19 ARGYLE STREET SINGLETON	Residential	55	50	41.1	38.4	46.9	45.3	5.8	6.9	No	No	No	No
1844	24 ARGYLE STREET SINGLETON	Residential	55	50	41.4	38.7	47.2	45.5	5.8	6.8	No	No	No	No
1845	26 ARGYLE STREET SINGLETON	Residential	55	50	41.3	38.6	46.9	45.3	5.6	6.7	No	No	No	No
1846	17 ARGYLE STREET SINGLETON	Residential	55	50	41.7	39.0	47.0	45.4	5.3	6.4	No	No	No	No
1847	15 ARGYLE STREET SINGLETON	Residential	55	50	43.5	40.6	48.1	46.4	4.6	5.8	No	No	No	No
1848	14 FREDERICK STREET SINGLETON	Residential	55	50	44.3	41.5	48.4	46.8	4.1	5.3	No	No	No	No
1849	6 HARRIETT STREET SINGLETON	Residential	55	50	44.7	41.8	49.2	47.5	4.5	5.7	No	No	No	No
1850	4 HARRIETT STREET SINGLETON	Residential	55	50	43.9	41.1	48.3	46.6	4.4	5.5	No	No	No	No
1851	22 ARGYLE STREET SINGLETON	Residential	55	50	42.6	39.7	47.4	45.7	4.8	6.0	No	No	No	No
1853	13 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.9	46.8	45.1	5.2	6.2	No	No	No	No
1854	20 ARGYLE STREET SINGLETON	Residential	55	50	42.0	39.2	47.4	45.7	5.4	6.5	No	No	No	No
1856	9 ARGYLE STREET SINGLETON	Residential	55	50	45.0	42.2	49.4	47.7	4.4	5.5	No	No	No	No
1857	11 ARGYLE STREET SINGLETON	Residential	55	50	43.3	40.5	48.1	46.4	4.8	5.9	No	No	No	No
1858	18 ARGYLE STREET SINGLETON	Residential	55	50	42.0	39.3	47.4	45.7	5.4	6.4	No	No	No	No
1859	16 ARGYLE STREET SINGLETON	Residential	55	50	43.7	40.8	47.8	46.1	4.1	5.3	No	No	No	No
1861	7 ARGYLE STREET SINGLETON	Residential	55	50	45.6	42.8	49.8	48.2	4.2	5.4	No	No	No	No
1862	25 GAS STREET SINGLETON	Residential	55	50	42.8	40.1	47.6	45.9	4.8	5.8	No	No	No	No
1864	14 ARGYLE STREET SINGLETON	Residential	55	50	42.5	39.7	47.4	45.8	4.9	6.1	No	No	No	No
1865	5 ARGYLE STREET SINGLETON	Residential	55	50	46.4	43.6	50.2	48.6	3.8	5.0	No	No	No	No
1866	16 ARGYLE STREET SINGLETON	Residential	55	50	43.2	40.3	47.6	45.9	4.4	5.6	No	No	No	No
1867	12 ARGYLE STREET SINGLETON	Residential	55	50	42.7	40.0	47.5	45.9	4.8	5.9	No	No	No	No
1869	3 ARGYLE STREET SINGLETON	Residential	55	50	48.2	45.3	50.5	48.9	2.3	3.6	No	No	No	No
1870	19 GAS STREET SINGLETON	Residential	55	50	42.1	39.4	47.3	45.6	5.2	6.2	No	No	No	No
1871	21 GAS STREET SINGLETON	Residential	55	50	40.9	38.3	46.1	44.4	5.2	6.1	No	No	No	No
1873	10 ARGYLE STREET SINGLETON	Residential	55	50	44.3	41.3	47.6	45.9	3.3	4.6	No	No	No	No
1874	8 ARGYLE STREET SINGLETON	Residential	55	50	43.2	40.4	47.7	46.0	4.5	5.6	No	No	No	No
1875	17 FREDERICK STREET SINGLETON	Residential	55	50	44.1	41.2	48.1	46.4	4.0	5.2	No	No	No	No
1876	17 GAS STREET SINGLETON	Residential	55	50	40.1	37.3	46.5	44.8	6.4	7.5	No	No	No	No
1881	6 ARGYLE STREET SINGLETON	Residential	55	50	43.7	40.9	47.9	46.3	4.2	5.4	No	No	No	No
1882	4 ARGYLE STREET SINGLETON	Residential	55	50	45.1	42.2	48.9	47.2	3.8	5.0	No	No	No	No
1884	15 GAS STREET SINGLETON	Residential	55	50	42.0	39.3	47.2	45.5	5.2	6.2	No	No	No	No
1885	22-26 JOHN STREET SINGLETON	Residential	55	50	60.7	57.8	59.0	57.5	-1.7	-0.3	No	No	No	No
1886	2 ARGYLE STREET SINGLETON	Residential	55	50	46.2	43.3	48.8	47.2	2.6	3.9	No	No	No	No
1887	12A GAS STREET SINGLETON	Residential	55	50	45.9	43.0	47.7	46.0	1.8	3.0	No	No	No	No
1888	13 GAS STREET SINGLETON	Residential	55	50	41.7	38.9	47.3	45.6	5.6	6.7	No	No	No	No
1889	28 JOHN STREET SINGLETON	Residential	55	50	59.5	56.6	58.0	56.4	-1.5	-0.2	No	No	No	No
1890	7 MARY STREET SINGLETON	Residential	55	50	62.1	59.3	59.9	58.3	-2.2	-1.0	No	No	No	No
1891	11 GAS STREET SINGLETON	Residential	55	50	44.8	42.0	47.6	46.0	2.8	4.0	No	No	No	No
1892	9 MARY STREET SINGLETON	Residential	55	50	56.5	53.7	56.2	54.6	-0.3	0.9	No	No	No	No
1895	10 GAS STREET SINGLETON	Residential	55	50	42.1	39.4	46.9	45.2	4.8	5.8	No	No	No	No
1896	11 MARY STREET SINGLETON	Residential	55	50	53.1	50.2	54.4	52.8	1.3	2.6	Yes	No	No	Yes
1897	8 GAS STREET SINGLETON	Residential	55	50	42.4	39.6	46.9	45.2	4.5	5.6	No	No	No	No
1898	9 GAS STREET SINGLETON	Residential	55	50	47.7	44.8	48.2	46.5	0.5	1.7	No	No	No	No
1899	30 JOHN STREET SINGLETON	Residential	55	50	66.3	63.5	64.3	62.7	-2.0	-0.8	No	No	No	No
1900	13 MARY STREET SINGLETON	Residential	55	50	51.7	48.8	54.1	52.5	2.4	3.7	Yes	No	Yes	Yes
1900	13 MARY STREET SINGLETON*	Residential	55	50	38.7	35.8	51.4	49.8	12.7	14.0				
1901	7 GAS STREET SINGLETON	Residential	55	50	46.6	43.7	48.4	46.7	1.8	3.0	No	No	No	No
1902	6 GAS STREET SINGLETON	Residential	55	50	46.3	43.4	48.8	47.1	2.5	3.7	No	No	No	No
1906	9 RYAN AVENUE SINGLETON	Residential	55	50	61.8	59.0	59.8	58.2	-2.0	-0.8	No	No	No	No
1910	11 RYAN AVENUE SINGLETON	Residential	55	50	55.4	52.5	54.4	52.8	-1.0	0.3	No	No	No	No
1913	53 JOHN STREET SINGLETON	Residential	55	50	50.3	47.5	49.4	47.8	-0.9	0.3	No	No	No	No
1914	2 RYAN AVENUE SINGLETON	Residential	55	50	60.0	57.1	58.1	56.5	-1.9	-0.6	No	No	No	No
1917	4 RYAN AVENUE SINGLETON	Residential	55	50	54.2	51.3	54.1	52.5	-0.1	1.2	Yes	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1918	6 RYAN AVENUE SINGLETON	Residential	55	50	51.4	48.6	52.6	51.0	1.2	2.4	Yes	No	No	Yes
1919	59 JOHN STREET SINGLETON	Residential	55	50	52.5	49.7	51.4	49.8	-1.1	0.1	No	No	No	No
1920	59 JOHN STREET SINGLETON	Residential	55	50	68.3	65.4	66.4	64.8	-1.9	-0.6	No	No	No	No
1931	48 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.9	38.0	59.3	57.6	18.4	19.6	Yes	Yes	Yes	Yes
1932	2 NOBLE CLOSE DARLINGTON	Residential	55	50	41.2	38.1	59.6	57.9	18.4	19.8	Yes	Yes	Yes	Yes
1933	3 NOBLE CLOSE DARLINGTON	Residential	55	50	44.4	41.1	62.7	61.0	18.3	19.9	Yes	Yes	Yes	Yes
1934	46 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.4	38.5	54.2	52.5	12.8	14.0	Yes	No	Yes	Yes
1935	4 NOBLE CLOSE DARLINGTON	Residential	55	50	46.8	43.1	61.0	59.3	14.2	16.2	Yes	Yes	Yes	Yes
1936	6 NOBLE CLOSE DARLINGTON	Residential	55	50	43.1	39.8	54.6	52.8	11.5	13.0	Yes	No	Yes	Yes
1937	5 NOBLE CLOSE DARLINGTON	Residential	55	50	46.6	42.8	58.8	57.0	12.2	14.2	Yes	Yes	Yes	Yes
1938	44 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.1	37.3	52.0	50.3	11.9	13.0	No	No	Yes	Yes
1940	3 SEVER CLOSE DARLINGTON	Residential	55	50	42.3	39.1	54.4	52.8	12.1	13.7	Yes	No	Yes	Yes
1941	2 SEVER CLOSE DARLINGTON	Residential	55	50	45.9	42.3	53.4	51.5	7.5	9.2	Yes	No	Yes	Yes
1941	2 SEVER CLOSE DARLINGTON*	Residential	55	50	38.6	35.6	52.1	50.4	13.5	14.8				
1942	4 SEVER CLOSE DARLINGTON	Residential	55	50	46.4	42.6	58.7	57.1	12.3	14.5	Yes	Yes	Yes	Yes
1943	40 SIMPSON TERRACE DARLINGTON	Residential	55	50	39.7	36.9	52.2	50.5	12.5	13.6	Yes	No	Yes	Yes
1944	5 SEVER CLOSE DARLINGTON	Residential	55	50	46.3	42.6	57.9	56.2	11.6	13.6	Yes	Yes	Yes	Yes
1945	7 SEVER CLOSE DARLINGTON	Residential	55	50	45.7	42.1	53.9	52.1	8.2	10.0	Yes	No	Yes	Yes
1945	7 SEVER CLOSE DARLINGTON*	Residential	55	50	39.7	36.7	51.5	49.7	11.8	13.0				
1946	8 SEVER CLOSE DARLINGTON	Residential	55	50	46.3	42.6	53.7	51.9	7.4	9.3	Yes	No	Yes	Yes
1946	8 SEVER CLOSE DARLINGTON*	Residential	55	50	38.6	35.4	50.6	48.9	12.0	13.5				
1947	6 SEVER CLOSE DARLINGTON	Residential	55	50	46.0	42.2	54.8	53.0	8.8	10.8	Yes	No	Yes	Yes
1947	6 SEVER CLOSE DARLINGTON*	Residential	55	50	38.4	35.3	50.9	49.1	12.5	13.8				
1948	38 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.6	38.5	50.0	48.3	8.4	9.8	No	No	No	No
1949	36 SIMPSON TERRACE DARLINGTON	Residential	55	50	46.7	43.8	51.2	49.4	4.5	5.6	No	No	No	No
1950	3 BUTTON CLOSE DARLINGTON	Residential	55	50	42.2	39.0	49.9	48.1	7.7	9.1	No	No	Yes	Yes
1950	3 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.7	32.6	48.6	46.9	12.9	14.3				
1951	2 BUTTON CLOSE DARLINGTON	Residential	55	50	40.1	37.1	53.7	52.0	13.6	14.9	Yes	No	Yes	Yes
1952	4 BUTTON CLOSE DARLINGTON	Residential	55	50	37.7	34.5	50.6	48.8	12.9	14.3	No	No	Yes	Yes
1953	5 BUTTON CLOSE DARLINGTON	Residential	55	50	42.3	39.0	51.8	50.0	9.5	11.0	No	No	Yes	Yes
1953	5 BUTTON CLOSE DARLINGTON*	Residential	55	50	38.5	35.5	50.1	48.4	11.6	12.9				
1954	34 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.8	37.8	48.5	46.7	7.7	8.9	No	No	No	No
1955	9 BUTTON CLOSE DARLINGTON	Residential	55	50	40.5	37.5	51.9	50.2	11.4	12.7	No	No	Yes	Yes
1956	29 SIMPSON TERRACE DARLINGTON	Residential	55	50	38.5	35.5	49.6	47.9	11.1	12.4	No	No	Yes	Yes
1957	6 BUTTON CLOSE DARLINGTON	Residential	55	50	46.0	42.4	55.7	53.9	9.7	11.5	Yes	No	Yes	Yes
1957	6 BUTTON CLOSE DARLINGTON*	Residential	55	50	40.4	37.3	55.2	53.5	14.8	16.2				
1958	8 BUTTON CLOSE DARLINGTON	Residential	55	50	40.2	37.1	51.8	50.1	11.6	13.0	No	No	Yes	Yes
1959	7 BUTTON CLOSE DARLINGTON	Residential	55	50	46.0	42.4	54.6	52.9	8.6	10.5	Yes	No	Yes	Yes
1959	7 BUTTON CLOSE DARLINGTON*	Residential	55	50	36.1	33.0	48.3	46.5	12.2	13.5				
1960	32 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.2	38.0	49.0	47.3	7.8	9.3	No	No	No	No
1961	11 GRAINGER CRESCENT DARLINGTON	Residential	55	50	43.7	40.5	51.6	49.8	7.9	9.3	No	No	No	No
1963	27 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.0	38.8	48.7	46.9	6.7	8.1	No	No	No	No
1964	30 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.7	38.6	48.8	47.0	7.1	8.4	No	No	No	No
1965	9 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.9	46.0	50.6	48.8	1.7	2.8	No	No	No	No
1966	7 ELLIOT CLOSE DARLINGTON	Residential	55	50	41.6	38.4	51.0	49.2	9.4	10.8	No	No	No	No
1968	8 ELLIOT CLOSE DARLINGTON	Residential	55	50	39.3	36.1	54.1	52.4	14.8	16.3	Yes	No	Yes	Yes
1969	25 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.4	41.1	49.6	47.8	5.2	6.7	No	No	No	No
1970	6 ELLIOT CLOSE DARLINGTON	Residential	55	50	43.4	40.3	50.8	49.0	7.4	8.7	No	No	No	No
1971	28 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.8	38.7	48.5	46.7	6.7	8.0	No	No	No	No
1972	5 ELLIOT CLOSE DARLINGTON	Residential	55	50	42.3	39.1	51.1	49.3	8.8	10.2	No	No	No	No
1973	26 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.4	39.2	48.5	46.7	6.1	7.5	No	No	No	No
1974	9 ELLIOT CLOSE DARLINGTON	Residential	55	50	46.1	42.6	56.3	54.6	10.2	12.0	Yes	Yes	Yes	Yes
1975	36 GRAINGER CRESCENT DARLINGTON	Residential	55	50	42.3	39.3	49.4	47.6	7.1	8.3	No	No	No	No
1976	24 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.0	38.9	48.7	46.9	6.7	8.0	No	No	No	No
1977	23 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.0	40.8	50.1	48.3	6.1	7.5	No	No	No	No
1978	10 ELLIOT CLOSE DARLINGTON	Residential	55	50	46.4	42.9	56.2	54.4	9.8	11.5	Yes	No	No	Yes
1979	4 ELLIOT CLOSE DARLINGTON	Residential	55	50	41.4	38.3	51.6	49.8	10.2	11.5	No	No	No	No
1980	34 GRAINGER CRESCENT DARLINGTON	Residential	55	50	49.2	46.3	49.2	47.3	0.0	1.0	No	No	No	No
1981	32 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.4	47.5	50.2	48.3	-0.2	0.8	No	No	No	No
1982	11 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.2	43.7	56.4	54.7	9.2	11.0	Yes	Yes	No	Yes
1983	3 ELLIOT CLOSE DARLINGTON	Residential	55	50	43.9	40.5	51.2	49.4	7.3	8.9	No	No	No	No
1984	22 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.3	39.2	49.1	47.3	6.8	8.1	No	No	No	No
1985	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.9	48.0	50.1	48.1	-0.8	0.1	No	No	No	No
1986	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.1	45.2	49.0	47.1	0.9	1.9	No	No	No	No
1987	21 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.2	40.1	50.7	48.9	7.5	8.8	No	No	No	No
1988	12 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.9	44.4	56.3	54.5	8.4	10.1	Yes	Yes	Yes	Yes
1988	12 ELLIOT CLOSE DARLINGTON*	Residential	55	50	40.3	37.3	55.2	53.6	14.9	16.3				
1989	2 ELLIOT CLOSE DARLINGTON	Residential	55	50	45.0	41.8	51.3	49.4	6.3	7.6	No	No	No	No
1990	20 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.0	37.9	48.8	47.0	7.8	9.1	No	No	No	No
1991	28 GRAINGER CRESCENT DARLINGTON	Residential	55	50	51.2	48.3	50.6	48.6	-0.6	0.3	No	No	No	No
1992	4 HALLETT PLACE DARLINGTON	Residential	55	50	42.0	38.9	49.3	47.4	7.3	8.5	No	No	No	No
1993	18 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.3	39.3	48.8	47.0	6.5	7.7	No	No	No	No
1994	3 HALLETT PLACE DARLINGTON	Residential	55	50	46.4	43.2	48.7	46.7	2.3	3.5	No	No	No	No
1995	13 ELLIOT CLOSE DARLINGTON	Residential	55	50	48.3	44.7	56.1	54.3	7.8	9.6	Yes	No	Yes	Yes
1995	13 ELLIOT CLOSE DARLINGTON*	Residential	55	50	39.4	36.4	51.7	50.0	12.3	13.6				
1996	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.9	41.7	50.9	49.1	6.0	7.4	No	No	No	No
1997	5 HALLETT PLACE DARLINGTON	Residential	55	50	44.9	41.7	49.9	48.1	5.0	6.4	No	No	No	No
1998	19 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.2	41.1	50.4	48.6	6.2	7.5	No	No	No	No
1999	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.7	46.4	54.1	52.1	4.4	5.7	Yes	No	No	Yes
2000	2 HALLETT PLACE DARLINGTON	Residential	55	50	47.2	43.8	49.1	47.2	1.9	3.4	No	No	No	No
2001	17 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.5	40.5	50.3	48.5	6.8	8.0	No	No	No	No
2002	26 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.5	47.6	49.7	47.8	-0.8	0.2	No	No	No	No
2003	14 ELLIOT CLOSE DARLINGTON	Residential	55	50	50.7	47.2	58.3	56.5	7.6	9.3	Yes	Yes	Yes	Yes
2003	14 ELLIOT CLOSE DARLINGTON*	Residential	55	50	37.9	34.9	49.7	48.0	11.8	13.1				
2004	15 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.0	39.9	49.9	48.0	6.9	8.1	No	No	No	No
2005	7 GRAINGER CRESCENT DARLINGTON	Residential	55	50	54.9	52.0	52.1	49.9	-2.8	-2.1	No	No	No	No
2006	6 HALLETT PLACE DARLINGTON	Residential	55	50	44.0	40.9	50.0	48.2	6.0	7.3	No	No	No	No
2007	15 ELLIOT CLOSE DARLINGTON	Residential	55	50	49.5	45.9	56.1	54.3	6.6	8.4	Yes	No	Yes	Yes
2007	15 ELLIOT CLOSE DARLINGTON*	Residential	55	50	41.1	38.0	54.2	52.5	13.1	14.5				
2008	7 HALLETT PLACE DARLINGTON	Residential	55	50	47.3	44.0	49.0	47.1	1.7	3.1	No	No	No	No
2009	24 GRAINGER CRESCENT DARLINGTON	Residential	55	50	49.1	46.1	49.2	47.3	0.1	1.2	No	No	No	No
2010	17 HALLETT PLACE DARLINGTON	Residential	55	50	46.7	43.6	48.8	46.8	2.1	3.2	No	No	No	No
2011	13 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.5	41.5	50.1	48.3	5.6	6.8	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2012	7 MILLARD CLOSE DARLINGTON	Residential	55	50	45.5	42.3	50.4	48.6	4.9	6.3	No	No	No	No
2013	14 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.2	45.7	55.5	53.6	6.3	7.9	Yes	No	No	Yes
2014	5 GRAINGER CRESCENT DARLINGTON	Residential	55	50	61.1	58.2	57.6	55.3	-3.5	-2.9	No	No	No	No
2015	11 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.6	41.5	50.7	48.8	6.1	7.3	No	No	No	No
2016	22 GRAINGER CRESCENT DARLINGTON	Residential	55	50	54.1	51.2	51.1	48.9	-3.0	-2.3	No	No	No	No
2017	8 HALLETT PLACE DARLINGTON	Residential	55	50	48.5	45.2	49.8	47.8	1.3	2.6	No	No	No	No
2018	16 HALLETT PLACE DARLINGTON	Residential	55	50	47.4	44.1	49.4	47.5	2.0	3.4	No	No	No	No
2019	6 MILLARD CLOSE DARLINGTON	Residential	55	50	46.8	43.7	49.6	47.6	2.8	3.9	No	No	No	No
2020	8 MILLARD CLOSE DARLINGTON	Residential	55	50	44.8	41.7	50.1	48.2	5.3	6.5	No	No	No	No
2021	12 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.8	42.7	54.3	52.5	8.5	9.8	Yes	No	No	Yes
2022	9 HALLETT PLACE DARLINGTON	Residential	55	50	48.9	45.5	50.3	48.3	1.4	2.8	No	No	No	No
2023	9 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.7	42.4	51.4	49.5	5.7	7.1	No	No	No	No
2024	15 HALLETT PLACE DARLINGTON	Residential	55	50	48.2	45.0	50.0	48.1	1.8	3.1	No	No	No	No
2025	20 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.8	53.9	53.2	51.0	-3.6	-2.9	No	No	No	No
2026	9 MILLARD CLOSE DARLINGTON	Residential	55	50	48.8	45.2	51.2	49.2	2.4	4.0	No	No	No	No
2028	5 MILLARD CLOSE DARLINGTON	Residential	55	50	47.7	44.4	50.7	48.7	3.0	4.3	No	No	No	No
2029	10 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.2	44.8	54.9	53.1	6.7	8.3	Yes	No	No	Yes
2030	10 MILLARD CLOSE DARLINGTON	Residential	55	50	48.2	44.7	51.1	49.1	2.9	4.4	No	No	No	No
2031	10 HALLETT PLACE DARLINGTON	Residential	55	50	49.1	45.8	50.7	48.7	1.6	2.9	No	No	No	No
2032	7 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.6	45.2	51.8	49.9	3.2	4.7	No	No	No	No
2033	8 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.7	46.0	55.1	53.2	5.4	7.2	Yes	No	No	Yes
2034	18 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.1	55.2	54.6	52.3	-3.5	-2.9	No	No	No	No
2035	14 HALLETT PLACE DARLINGTON	Residential	55	50	49.4	46.2	50.8	48.7	1.4	2.5	No	No	No	No
2036	4 MILLARD CLOSE DARLINGTON	Residential	55	50	49.1	45.9	50.7	48.7	1.6	2.8	No	No	No	No
2037	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.4	47.0	51.7	49.8	1.3	2.8	No	No	No	No
2038	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.0	46.8	56.2	54.2	6.2	7.4	Yes	No	No	Yes
2039	11 MILLARD CLOSE DARLINGTON	Residential	55	50	48.8	45.6	50.8	48.9	2.0	3.3	No	No	No	No
2040	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.5	49.1	57.8	55.9	5.3	6.8	Yes	Yes	No	Yes
2041	13 HALLETT PLACE DARLINGTON	Residential	55	50	51.8	48.7	50.8	48.7	-1.0	0.0	No	No	No	No
2042	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.7	49.2	57.8	55.9	5.1	6.7	Yes	Yes	No	Yes
2043	3 MILLARD CLOSE DARLINGTON	Residential	55	50	53.4	50.1	52.1	50.0	-1.3	-0.1	No	No	No	No
2044	11 HALLETT PLACE DARLINGTON	Residential	55	50	51.3	48.2	51.1	49.0	-0.2	0.8	No	No	No	No
2045	16 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.7	55.8	55.2	52.9	-3.5	-2.9	No	No	No	No
2046	12 MILLARD CLOSE DARLINGTON	Residential	55	50	49.8	46.4	50.5	48.5	0.7	2.1	No	No	No	No
2047	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.7	49.3	57.8	55.9	5.1	6.6	Yes	Yes	No	Yes
2048	12 HALLETT PLACE DARLINGTON	Residential	55	50	51.9	48.8	50.9	48.8	-1.0	0.0	No	No	No	No
2049	2 MILLARD CLOSE DARLINGTON	Residential	55	50	54.1	50.9	53.1	50.9	-1.0	0.0	Yes	No	No	No
2050	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.0	48.6	52.2	50.2	0.2	1.6	No	No	No	No
2051	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.8	49.4	57.7	55.8	4.9	6.4	Yes	Yes	Yes	Yes
2051	6 SIMPSON TERRACE DARLINGTON*	Residential	55	50	39.4	36.4	50.5	48.7	11.1	12.3				
2052	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.2	47.0	55.4	53.4	5.2	6.4	Yes	No	No	Yes
2053	13 MILLARD CLOSE DARLINGTON	Residential	55	50	51.7	48.6	51.4	49.2	-0.3	0.6	No	No	No	No
2054	6 SOLMAN LANE DARLINGTON	Residential	55	50	49.1	45.9	53.4	51.4	4.3	5.5	Yes	No	No	Yes
2055	14 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.0	57.1	56.6	54.3	-3.4	-2.8	No	No	No	No
2056	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.1	49.7	57.8	55.8	4.7	6.1	Yes	Yes	No	Yes
2058	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.0	49.6	57.7	55.7	4.7	6.1	Yes	Yes	No	Yes
2059	14 MILLARD CLOSE DARLINGTON	Residential	55	50	52.1	48.8	51.8	49.8	-0.3	1.0	No	No	No	No
2060	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	52.9	49.6	53.1	51.0	0.2	1.4	Yes	No	No	No
2061	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.2	49.7	57.6	55.7	4.4	6.0	Yes	Yes	No	Yes
2062	8 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.7	54.7	55.5	53.3	-2.2	-1.4	No	No	No	No
2063	1 MILLARD CLOSE DARLINGTON	Residential	55	50	57.2	54.2	55.4	53.3	-1.8	-0.9	Yes	No	No	No
2064	4 SOLMAN LANE DARLINGTON	Residential	55	50	49.8	46.7	53.6	51.6	3.8	4.9	Yes	No	No	Yes
2065	12 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.7	57.8	57.7	55.4	-3.0	-2.4	No	No	No	No
2066	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.3	47.2	55.4	53.3	5.1	6.1	Yes	No	No	Yes
2067	10 GRAINGER CRESCENT DARLINGTON	Residential	55	50	59.4	56.4	56.8	54.6	-2.6	-1.8	No	No	No	No
2068	15 MILLARD CLOSE DARLINGTON	Residential	55	50	56.7	53.6	55.0	52.8	-1.7	-0.8	Yes	No	No	No
2069	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.7	53.6	54.7	52.5	-2.0	-1.1	No	No	No	No
2070	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.9	53.8	55.1	52.9	-1.8	-0.9	Yes	No	No	No
2071	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	62.2	59.3	58.9	56.7	-3.3	-2.6	No	No	No	No
2072	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.7	50.4	57.6	55.6	3.9	5.2	Yes	Yes	No	Yes
2073	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.4	54.3	55.9	53.7	-1.5	-0.6	Yes	No	No	No
2074	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.3	54.2	55.6	53.4	-1.7	-0.8	Yes	No	No	No
2075	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.2	54.1	55.5	53.3	-1.7	-0.8	Yes	No	No	No
2076	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.2	54.1	55.6	53.4	-1.6	-0.7	Yes	No	No	No
2077	4 ALLEN COURT DARLINGTON	Residential	55	50	52.1	48.8	54.3	52.2	2.2	3.4	Yes	No	No	Yes
2078	3 ALLEN COURT DARLINGTON	Residential	55	50	54.2	50.9	54.3	52.2	0.1	1.3	Yes	No	No	No
2081	5 ALLEN COURT DARLINGTON	Residential	55	50	50.1	47.0	54.1	52.0	4.0	5.0	Yes	No	No	Yes
2082	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	60.4	57.4	57.5	55.3	-2.9	-2.1	No	No	No	No
2083	6 ALLEN COURT DARLINGTON	Residential	55	50	55.0	51.8	56.4	54.2	1.4	2.4	Yes	No	No	Yes
2084	10 ALLEN COURT DARLINGTON	Residential	55	50	57.6	54.5	56.4	54.2	-1.2	-0.3	Yes	No	No	No
2085	11 ALLEN COURT DARLINGTON	Residential	55	50	58.7	55.7	56.7	54.5	-2.0	-1.2	No	No	No	No
2086	7 ALLEN COURT DARLINGTON	Residential	55	50	56.0	52.8	56.6	54.4	0.6	1.6	Yes	No	No	No
2087	2 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	67.8	65.0	64.1	61.9	-3.7	-3.1	No	No	No	No
2088	9B ALLEN COURT DARLINGTON	Residential	55	50	63.7	60.6	60.7	58.5	-3.0	-2.1	No	No	No	No
2089	4 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	67.1	64.2	63.5	61.2	-3.6	-3.0	No	No	No	No
2090	1 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.2	58.3	57.6	55.3	-3.6	-3.0	No	No	No	No
2091	9 ALLEN COURT DARLINGTON	Residential	55	50	59.9	56.9	58.7	56.5	-1.2	-0.4	Yes	Yes	No	Yes
2092	8 ALLEN COURT DARLINGTON	Residential	55	50	60.0	57.0	59.1	57.0	-0.9	0.0	Yes	Yes	No	Yes
2093	6 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	63.9	61.0	60.6	58.3	-3.3	-2.7	No	No	No	No
2094	3 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.7	55.8	55.3	53.1	-3.4	-2.7	No	No	No	No
2095	110 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.3	52.2	50.0	-1.1	-0.3	No	No	No	No
2096	108 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.2	50.2	51.8	49.7	-1.4	-0.5	No	No	No	No
2097	5 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	55.8	52.8	53.3	51.1	-2.5	-1.7	No	No	No	No
2098	8 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.0	59.1	58.9	56.6	-3.1	-2.5	No	No	No	No
2100	112 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.8	50.8	52.6	50.5	-1.2	-0.3	Yes	No	No	No
2101	114 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.8	50.8	52.6	50.4	-1.2	-0.4	No	No	No	No
2102	12 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.7	59.8	59.4	57.2	-3.3	-2.6	No	No	No	No
2103	10 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.9	60.0	59.7	57.4	-3.2	-2.6	No	No	No	No
2104	14 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	63.1	60.2	59.9	57.7	-3.2	-2.5	No	No	No	No
2105	7-9 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.5	50.5	52.0	49.8	-1.5	-0.7	No	No	No	No
2106	116 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.8	50.8	52.6	50.4	-1.2	-0.4	No	No	No	No
2107	18 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.7	59.8	59.7	57.4	-3.0	-2.4	No	No	No	No
2108	16 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.4	59.5	59.2	57.0	-3.2	-2.5	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2109	20 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.4	59.5	59.4	57.2	-3.0	-2.3	No	No	No	No
2110	118 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.5	50.5	52.3	50.1	-1.2	-0.4	No	No	No	No
2111	22 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.4	59.5	59.5	57.2	-2.9	-2.3	No	No	No	No
2112	120 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.2	50.2	52.2	50.0	-1.0	-0.2	No	No	No	No
2113	26 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.1	59.2	59.4	57.1	-2.7	-2.1	No	No	No	No
2114	24 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.0	59.0	56.8	-2.9	-2.2	No	No	No	No
2115	13 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.7	52.0	49.8	-0.7	0.1	No	No	No	No
2116	11 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.4	50.4	52.2	49.9	-1.2	-0.5	No	No	No	No
2118	71 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	47.1	50.3	48.2	0.2	1.1	No	No	No	No
2119	69 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.3	50.3	48.1	0.0	0.8	No	No	No	No
2120	15 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.1	51.7	49.4	-0.4	0.3	No	No	No	No
2121	30 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	57.3	54.3	57.0	54.8	-0.3	0.5	Yes	Yes	No	Yes
2122	28 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	60.7	57.9	58.2	55.9	-2.5	-2.0	No	No	No	No
2124	17 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.1	52.1	49.9	0.0	0.8	No	No	No	No
2128	73 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.8	46.8	50.1	47.9	0.3	1.1	No	No	No	No
2129	19 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.5	49.6	52.5	50.3	0.0	0.7	No	No	No	No
2131	34 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	57.3	54.4	55.9	53.7	-1.4	-0.7	Yes	No	No	No
2132	21 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.6	49.6	52.9	50.7	0.3	1.1	Yes	No	No	No
2133	75 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.2	50.2	48.0	0.9	1.8	No	No	No	No
2135	36 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.6	55.7	57.5	55.3	-1.1	-0.4	Yes	Yes	No	Yes
2136	40 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	59.9	57.0	59.0	56.8	-0.9	-0.2	Yes	Yes	No	Yes
2137	38 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.9	56.0	57.5	55.3	-1.4	-0.7	Yes	Yes	No	Yes
2138	23 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.9	49.9	53.4	51.2	0.5	1.3	Yes	No	No	No
2141	44 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	59.1	56.2	58.8	56.6	-0.3	0.4	Yes	Yes	No	Yes
2142	25 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.2	50.2	54.0	51.8	0.8	1.6	Yes	No	No	No
2143	42 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	57.6	54.8	57.7	55.6	0.1	0.8	Yes	Yes	No	Yes
2144	77 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.8	49.9	47.7	1.1	1.9	No	No	No	No
2145	46 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.7	55.9	59.0	56.8	0.3	0.9	Yes	Yes	No	Yes
2146	27 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.7	50.6	54.8	52.6	1.1	2.0	Yes	No	No	No
2147	79 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	50.4	48.2	1.7	2.7	No	No	No	No
2148	2 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	50.8	48.7	1.6	2.8	No	No	No	No
2149	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	54.1	50.9	55.9	53.7	1.8	2.8	Yes	No	No	Yes
2150	2 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	56.0	53.1	57.3	55.1	1.3	2.0	Yes	Yes	No	Yes
2151	2 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.9	50.1	47.9	0.2	1.0	No	No	No	No
2152	4 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.4	57.5	55.4	4.8	6.0	Yes	Yes	No	Yes
2153	81 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.3	49.4	47.3	1.0	2.0	No	No	No	No
2154	4 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.0	51.0	48.8	1.7	2.8	No	No	No	No
2155	31 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	48.1	53.6	51.4	2.5	3.3	Yes	No	No	Yes
2156	33 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.0	48.0	54.3	52.1	3.3	4.1	Yes	No	No	Yes
2157	5 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	46.0	49.6	47.4	0.6	1.4	No	No	No	No
2158	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.9	57.1	54.9	5.9	7.0	Yes	Yes	No	Yes
2159	35 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	49.1	55.1	52.9	3.1	3.8	Yes	No	No	Yes
2160	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.9	49.7	55.6	53.4	2.7	3.7	Yes	No	No	Yes
2161	1 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	48.9	53.8	51.6	1.7	2.7	Yes	No	No	Yes
2162	6 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.6	56.9	54.7	5.7	7.1	Yes	Yes	No	Yes
2163	1 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	46.6	49.5	47.3	-0.1	0.7	No	No	No	No
2164	4 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	49.7	47.6	1.0	2.1	No	No	No	No
2165	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.0	47.6	57.0	54.8	6.0	7.2	Yes	Yes	No	Yes
2166	6 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.6	50.4	48.3	1.5	2.7	No	No	No	No
2167	8 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.1	56.1	53.9	5.8	6.8	Yes	No	No	Yes
2168	2 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.9	48.5	55.4	53.2	3.5	4.7	Yes	No	No	Yes
2169	3 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.7	52.5	50.3	1.7	2.6	No	No	No	No
2170	1 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.1	56.7	54.6	6.1	7.5	Yes	Yes	No	Yes
2171	7 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.9	49.6	47.5	1.5	2.6	No	No	No	No
2172	9 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	49.1	45.8	50.1	47.9	1.0	2.1	No	No	No	No
2173	6 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	50.1	47.9	1.4	2.5	No	No	No	No
2174	10 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.4	57.0	54.9	6.1	7.5	Yes	Yes	No	Yes
2175	38 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	59.6	56.0	59.0	55.4	-0.6	-0.6	Yes	Yes	No	Yes
2176	5 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.4	52.2	50.1	1.5	2.7	No	No	No	No
2177	3 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.3	57.4	55.3	6.5	8.0	Yes	Yes	No	Yes
2178	9 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	46.0	50.8	48.7	1.6	2.7	No	No	No	No
2179	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.6	50.3	48.2	1.6	2.6	No	No	No	No
2180	16 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	52.3	49.1	54.9	52.7	2.6	3.6	Yes	No	No	Yes
2181	3 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.8	49.0	46.9	1.0	2.1	No	No	No	No
2182	7 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.5	48.4	54.4	52.2	2.9	3.8	Yes	No	No	Yes
2183	4 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.3	49.0	55.5	53.4	3.2	4.4	Yes	No	No	Yes
2186	12 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.3	47.7	58.1	56.0	6.8	8.3	Yes	Yes	No	Yes
2188	5 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.8	48.5	54.7	52.6	2.9	4.1	Yes	No	No	Yes
2189	7 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.6	45.3	49.8	47.7	1.2	2.4	No	No	No	No
2192	14 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.6	57.9	55.8	6.7	8.2	Yes	Yes	No	Yes
2194	6 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	48.6	55.5	53.3	3.5	4.7	Yes	No	No	Yes
2195	14 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.0	46.4	53.9	51.8	3.9	5.4	Yes	No	No	Yes
2196	5 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.2	56.9	54.8	6.1	7.6	Yes	Yes	No	Yes
2197	8 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	50.4	48.2	1.2	2.3	No	No	No	No
2198	11 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.0	50.8	48.7	1.5	2.7	No	No	No	No
2202	7 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.4	47.0	52.1	50.0	1.7	3.0	No	No	No	No
2203	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	50.1	48.0	1.4	2.6	No	No	No	No
2205	5 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.5	48.9	46.8	1.1	2.3	No	No	No	No
2206	3 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.8	47.3	54.0	51.9	3.2	4.6	Yes	No	No	Yes
2207	12 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.9	47.4	54.5	52.4	3.6	5.0	Yes	No	No	Yes
2208	9 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.2	52.1	49.9	1.6	2.7	No	No	No	No
2210	16 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.0	47.5	57.7	55.6	6.7	8.1	Yes	Yes	No	Yes
2211	7 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	47.6	56.7	54.6	5.6	7.0	Yes	Yes	No	Yes
2212	8 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.7	48.3	55.4	53.2	3.7	4.9	Yes	No	No	Yes
2213	10 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	49.4	46.0	51.0	48.8	1.6	2.8	No	No	No	No
2214	10 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	50.6	48.5	1.4	2.6	No	No	No	No
2215	13 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	46.2	50.7	48.6	1.1	2.4	No	No	No	No
2216	5 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.9	44.6	49.1	47.0	1.2	2.4	No	No	No	No
2217	18 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.1	57.9	55.8	7.3	8.7	Yes	Yes	No	Yes
2218	1 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.4	46.9	54.2	52.0	3.8	5.1	Yes	No	No	Yes
2219	10 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.1	47.6	54.4	52.3	3.3	4.7	Yes	No	No	Yes
2220	7 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.3	48.7	46.6	1.1	2.3	No	No	No	No
2222	11 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.4	47.1	52.2	50.0	1.8	2.9	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2223	15 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	45.9	50.9	48.7	1.6	2.8	No	No	No	No
2224	14 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.7	49.6	47.4	1.6	2.7	No	No	No	No
2225	10 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	48.7	55.5	53.4	3.4	4.7	Yes	No	No	Yes
2226	12 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.6	50.5	48.4	1.6	2.8	No	No	No	No
2227	9 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.3	56.1	53.9	5.3	6.6	Yes	No	No	Yes
2228	3 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.6	44.4	48.7	46.6	1.1	2.2	No	No	No	No
2230	20 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.0	57.4	55.3	6.7	8.3	Yes	Yes	No	Yes
2231	13 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.8	52.5	50.4	2.3	3.6	No	No	No	No
2232	8 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.9	47.4	54.2	52.1	3.3	4.7	Yes	No	No	Yes
2233	9 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	44.1	48.6	46.5	1.3	2.4	No	No	No	No
2234	8 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	51.0	48.8	1.8	2.9	No	No	No	No
2236	12 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	48.6	55.6	53.4	3.6	4.8	Yes	No	No	Yes
2237	14 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.1	50.3	48.2	1.9	3.1	No	No	No	No
2238	19 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.3	50.8	48.7	2.0	3.4	No	No	No	No
2239	6 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	50.6	48.5	1.8	3.0	No	No	No	No
2240	22 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	46.9	57.3	55.1	6.8	8.2	Yes	Yes	No	Yes
2241	17 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.3	49.1	46.9	1.9	3.6	No	No	No	No
2242	15 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.9	52.4	50.3	2.1	3.4	No	No	No	No
2243	6 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.2	46.8	53.7	51.6	3.5	4.8	Yes	No	No	Yes
2244	1 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.3	43.9	48.4	46.3	1.1	2.4	No	No	No	No
2245	11 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.7	48.1	46.0	1.1	2.3	No	No	No	No
2246	14 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.7	48.3	55.6	53.4	3.9	5.1	Yes	No	No	Yes
2247	16 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.1	50.2	48.2	1.6	3.1	No	No	No	No
2248	4 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.1	46.8	53.8	51.6	3.7	4.8	Yes	No	No	Yes
2249	17 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.5	49.1	55.5	53.4	3.0	4.3	Yes	No	No	Yes
2250	4 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.4	45.1	50.2	48.1	1.8	3.0	No	No	No	No
2251	24 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.5	56.9	54.7	6.6	8.2	Yes	Yes	No	Yes
2252	16 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.2	55.5	53.3	3.9	5.1	Yes	No	No	Yes
2253	2 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.9	46.6	53.8	51.6	3.9	5.0	Yes	No	No	Yes
2254	11 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	46.8	55.7	53.6	5.1	6.8	Yes	No	No	Yes
2255	18 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.2	50.4	48.2	1.7	3.0	No	No	No	No
2256	1 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	42.4	46.4	44.3	1.0	1.9	No	No	No	No
2257	11 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	44.1	47.9	45.9	0.5	1.8	No	No	No	No
2258	13 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.5	48.2	46.1	1.3	2.6	No	No	No	No
2259	3 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.7	47.0	44.9	1.2	2.2	No	No	No	No
2260	5 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	43.1	47.3	45.1	1.1	2.0	No	No	No	No
2261	26 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.4	56.4	54.2	6.3	7.8	Yes	No	No	Yes
2262	19 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.4	52.6	50.4	2.7	4.0	No	No	No	No
2263	20 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.3	49.7	47.5	1.8	3.2	No	No	No	No
2264	18 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.8	49.3	56.9	54.8	4.1	5.5	Yes	Yes	No	Yes
2265	2 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.3	44.8	49.8	47.7	1.5	2.9	No	No	No	No
2266	13 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.2	55.2	53.0	5.2	6.8	Yes	No	No	Yes
2267	20 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.4	50.8	48.6	2.0	3.2	No	No	No	No
2268	18 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.3	48.6	46.4	1.5	3.1	No	No	No	No
2269	21 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.4	52.7	50.6	2.7	4.2	Yes	No	No	Yes
2270	20 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.5	55.1	52.9	4.3	5.4	Yes	No	No	Yes
2271	28 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.0	56.0	53.8	5.4	6.8	Yes	No	No	Yes
2272	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.7	55.3	53.2	4.1	5.5	Yes	No	No	Yes
2273	23 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.6	52.9	50.8	2.7	4.2	Yes	No	No	Yes
2274	22 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	45.0	50.6	48.4	2.3	3.4	No	No	No	No
2275	15 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.9	55.0	52.8	5.3	6.9	Yes	No	No	Yes
2276	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.8	53.7	51.5	3.5	4.7	Yes	No	No	Yes
2277	22 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.2	50.5	48.4	1.7	3.2	No	No	No	No
2278	21 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.6	50.8	48.7	1.7	3.1	No	No	No	No
2279	1 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	66.6	62.9	62.6	60.9	-4.0	-2.0	No	No	No	No
2280	30 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.4	56.0	53.8	5.8	7.4	Yes	No	No	Yes
2281	24 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.8	50.3	48.2	2.1	3.4	No	No	No	No
2282	23 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.9	48.8	46.7	1.9	2.8	No	No	No	No
2283	25 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.4	52.9	50.8	3.0	4.4	Yes	No	No	Yes
2284	15 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.1	48.8	46.7	1.3	2.6	No	No	No	No
2285	2 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.8	47.3	45.2	1.4	2.4	No	No	No	No
2286	24 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.3	51.0	48.8	2.2	3.5	No	No	No	No
2287	24 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.0	54.9	52.7	4.4	5.7	Yes	No	No	Yes
2288	4 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	43.2	47.7	45.6	1.5	2.4	No	No	No	No
2289	6 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.6	48.4	46.3	1.7	2.7	No	No	No	No
2290	8 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.7	48.7	46.5	1.9	2.8	No	No	No	No
2291	10 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.9	48.9	46.8	1.9	2.9	No	No	No	No
2292	12 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.7	48.7	46.5	1.9	2.8	No	No	No	No
2293	25 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.2	50.5	48.3	1.8	3.1	No	No	No	No
2294	26 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	45.0	50.3	48.2	1.8	3.2	No	No	No	No
2295	17 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.3	49.0	46.9	1.4	2.6	No	No	No	No
2296	33 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.9	48.7	46.5	1.8	2.6	No	No	No	No
2297	26 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.3	55.8	53.6	4.9	6.3	Yes	No	No	Yes
2298	27 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.2	53.1	51.0	3.4	4.8	Yes	No	No	Yes
2299	32 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.8	55.5	53.3	5.8	7.5	Yes	No	No	Yes
2300	26 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	45.5	51.2	49.1	2.2	3.6	No	No	No	No
2301	28 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.6	49.9	47.7	1.7	3.1	No	No	No	No
2302	31 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	48.0	45.8	1.1	2.5	No	No	No	No
2303	3 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	59.0	55.1	55.8	54.0	-3.2	-1.1	No	No	No	No
2304	28 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	47.5	55.8	53.6	4.7	6.1	Yes	No	No	Yes
2305	27 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.1	50.6	48.4	2.0	3.3	No	No	No	No
2306	29 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.2	53.4	51.3	3.5	5.1	Yes	No	No	Yes
2307	5 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	56.4	52.5	54.5	52.4	-1.9	-0.1	Yes	No	No	No
2309	19 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.1	49.0	46.9	1.4	2.8	No	No	No	No
2310	28 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	45.4	51.4	49.2	2.4	3.8	No	No	No	No
2311	30 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.5	49.7	47.5	1.7	3.0	No	No	No	No
2312	29 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.6	48.4	46.2	1.4	2.6	No	No	No	No
2313	30 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.1	55.4	53.2	4.8	6.1	Yes	No	No	Yes
2314	31 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.4	53.6	51.5	3.5	5.1	Yes	No	No	Yes
2315	21 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.1	48.9	46.8	1.3	2.7	No	No	No	No
2316	25 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.2	47.9	45.8	1.4	2.6	No	No	No	No
2317	32 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.6	56.2	54.0	5.0	6.4	Yes	No	No	Yes
2319	32 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.6	48.5	46.4	1.7	2.8	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2320	29 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.0	50.6	48.5	2.0	3.5	No	No	No	No
2321	30 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	45.4	51.4	49.3	2.4	3.9	No	No	No	No
2322	21 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.8	47.7	45.5	1.7	2.7	No	No	No	No
2323	27 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.4	48.3	46.1	1.4	2.7	No	No	No	No
2324	19 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	48.7	46.6	1.5	2.9	No	No	No	No
2325	23 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.4	46.9	44.7	1.3	2.3	No	No	No	No
2326	31 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.9	50.5	48.4	2.0	3.5	No	No	No	No
2327	33 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.5	53.8	51.7	3.6	5.2	Yes	No	No	Yes
2328	34 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.4	47.8	56.6	54.5	5.2	6.7	Yes	Yes	No	Yes
2329	23 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.2	49.1	47.0	1.4	2.8	No	No	No	No
2331	32 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.4	51.9	49.7	2.8	4.3	No	No	No	No
2333	35 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.5	54.0	51.8	3.8	5.3	Yes	No	No	Yes
2334	17 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.8	48.5	46.3	1.4	2.5	No	No	No	No
2335	33 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.2	50.1	48.0	2.4	3.8	No	No	No	No
2336	34 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.0	47.7	45.5	1.2	2.5	No	No	No	No
2337	52 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	48.2	46.1	0.9	2.3	No	No	No	No
2338	36 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.5	45.5	54.6	52.4	5.1	6.9	Yes	No	No	Yes
2339	37 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.4	53.9	51.7	4.0	5.3	Yes	No	No	Yes
2340	34 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.8	51.5	49.3	3.0	4.5	No	No	No	No
2341	15 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.5	48.3	46.1	2.6	3.6	No	No	No	No
2342	50 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.5	48.0	45.8	1.0	2.3	No	No	No	No
2344	39 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.1	53.8	51.7	4.1	5.6	Yes	No	No	Yes
2345	13 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.8	49.1	46.9	1.9	3.1	No	No	No	No
2346	41 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.2	54.5	52.4	4.6	6.2	Yes	No	No	Yes
2347	35 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	49.3	47.1	2.4	3.8	No	No	No	No
2348	48 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	48.0	45.8	1.1	2.5	No	No	No	No
2349	38 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.7	54.5	52.3	4.8	6.6	Yes	No	No	Yes
2351	46 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.6	47.3	45.1	1.4	2.5	No	No	No	No
2352	36 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	43.3	50.2	48.0	3.6	4.7	No	No	No	No
2353	17 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.8	53.1	50.9	4.4	6.1	Yes	No	No	Yes
2354	9 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.2	51.1	49.0	2.3	3.8	No	No	No	No
2355	34 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.9	48.8	46.7	1.4	2.8	No	No	No	No
2356	36 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	48.7	46.6	1.5	2.9	No	No	No	No
2357	38 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.3	48.3	46.2	1.6	2.9	No	No	No	No
2358	40 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.7	47.6	45.5	1.6	2.8	No	No	No	No
2359	11 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	51.3	49.1	3.2	4.5	No	No	No	No
2360	40 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	45.3	53.9	51.7	4.6	6.4	Yes	No	No	Yes
2361	32 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.6	48.6	46.5	1.6	2.9	No	No	No	No
2362	42 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.8	41.1	47.1	45.0	2.3	3.9	No	No	No	No
2363	2 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	67.5	63.0	63.3	61.5	-4.2	-1.5	No	No	No	No
2364	30 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	49.0	46.8	1.7	3.0	No	No	No	No
2365	44 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	42.0	47.0	44.8	1.8	2.8	No	No	No	No
2366	7 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.5	52.2	50.1	3.0	4.6	No	No	No	No
2367	19 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.8	53.1	50.9	4.4	6.1	Yes	No	No	Yes
2368	5 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.5	52.0	49.8	2.8	4.3	No	No	No	No
2369	28 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.0	49.2	47.1	1.6	3.1	No	No	No	No
2371	3 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.1	51.7	49.5	3.0	4.4	No	No	No	No
2372	26 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.1	49.3	47.2	1.6	3.1	No	No	No	No
2373	42 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.1	53.5	51.3	4.4	6.2	Yes	No	No	Yes
2374	22 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.0	49.2	47.1	1.7	3.1	No	No	No	No
2375	24 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.6	48.8	46.7	1.7	3.1	No	No	No	No
2376	1 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.0	53.1	50.9	4.2	5.9	Yes	No	No	Yes
2377	44 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	44.7	52.0	49.9	3.2	5.2	No	No	No	No
2378	20 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.0	49.2	47.1	1.6	3.1	No	No	No	No
2380	18 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.2	49.7	47.6	1.9	3.4	No	No	No	No
2381	16 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.5	50.0	47.9	1.9	3.4	No	No	No	No
2383	12 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.4	50.0	47.9	2.0	3.5	No	No	No	No
2384	14 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	44.0	49.6	47.4	2.2	3.4	No	No	No	No
2385	46 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.7	52.5	50.3	3.8	5.6	No	No	No	No
2386	10 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.2	49.9	47.8	2.1	3.6	No	No	No	No
2387	8 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.6	50.5	48.4	2.3	3.8	No	No	No	No
2388	48 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.4	52.4	50.2	3.9	5.8	No	No	No	No
2389	6 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.7	51.0	48.8	2.7	4.1	No	No	No	No
2390	4 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.7	51.2	49.1	2.7	4.4	No	No	No	No
2391	2 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.2	51.6	49.5	2.7	4.3	No	No	No	No
2392	50 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.2	51.9	49.7	3.7	5.5	No	No	No	No
2393	21 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.2	52.3	50.1	3.4	4.9	No	No	No	No
2394	12 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	57.2	52.9	54.1	52.0	-3.1	-0.9	No	No	No	No
2395	4 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	63.3	58.7	59.4	57.6	-3.9	-1.1	No	No	No	No
2396	52 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.0	51.5	49.3	3.5	5.3	No	No	No	No
2399	54 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.5	50.9	48.8	3.3	5.3	No	No	No	No
2401	56 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.5	51.4	49.2	3.9	5.7	No	No	No	No
2403	58 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.3	51.2	49.0	3.9	5.7	No	No	No	No
2405	11 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.0	50.7	52.6	50.6	-2.4	-0.1	No	No	No	No
2407	60 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.0	50.6	48.4	3.6	5.4	No	No	No	No
2408	99 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.8	47.8	45.7	1.5	2.9	No	No	No	No
2409	62 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.3	49.2	47.0	2.8	4.7	No	No	No	No
2412	10 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	63.2	58.6	59.4	57.6	-3.8	-1.0	No	No	No	No
2413	64 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	41.9	48.9	46.8	2.9	4.9	No	No	No	No
2414	2 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.9	42.0	48.8	46.6	2.9	4.6	No	No	No	No
2415	92 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	47.4	45.3	1.6	3.1	No	No	No	No
2416	86 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.5	46.6	44.4	1.6	2.9	No	No	No	No
2417	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	47.0	44.9	1.7	3.4	No	No	No	No
2418	1 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.8	43.2	49.4	47.3	2.6	4.1	No	No	No	No
2419	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.2	47.6	45.5	1.9	3.3	No	No	No	No
2420	88 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	46.2	44.1	1.6	3.0	No	No	No	No
2421	90 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.2	46.4	44.3	1.7	3.1	No	No	No	No
2422	4 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.1	48.9	46.7	2.9	4.6	No	No	No	No
2423	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	48.0	45.9	2.2	3.8	No	No	No	No
2425	80 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	48.0	45.9	2.1	3.6	No	No	No	No
2426	78 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	48.1	46.0	2.2	3.7	No	No	No	No
2427	66 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	48.8	46.7	2.8	4.2	No	No	No	No
2429	76 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	48.3	46.2	2.5	4.0	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2430	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	46.3	44.2	1.4	2.9	No	No	No	No
2431	74 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.4	48.3	46.2	2.3	3.8	No	No	No	No
2432	70 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	48.3	46.2	2.5	4.0	No	No	No	No
2433	68 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.2	48.5	46.4	2.8	4.2	No	No	No	No
2434	28 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.8	46.7	44.6	1.3	2.8	No	No	No	No
2435	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	43.1	39.6	45.1	43.0	2.0	3.4	No	No	No	No
2436	6 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	48.3	46.2	2.8	4.5	No	No	No	No
2437	3 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.1	42.4	49.0	46.9	2.9	4.5	No	No	No	No
2438	72 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.1	48.1	46.0	2.4	3.9	No	No	No	No
2439	4 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.6	40.9	45.1	43.0	0.5	2.1	No	No	No	No
2440	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	46.9	44.7	1.5	3.0	No	No	No	No
2443	9 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	57.3	52.8	54.6	52.7	-2.7	-0.1	No	No	No	No
2444	8 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	48.1	46.0	2.8	4.5	No	No	No	No
2445	6 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	45.6	43.5	1.5	2.9	No	No	No	No
2447	26 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	47.0	44.9	1.4	2.9	No	No	No	No
2448	15 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	46.4	44.3	2.2	3.8	No	No	No	No
2449	13 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	47.1	45.0	1.6	3.1	No	No	No	No
2450	5 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.3	48.8	46.6	2.8	4.3	No	No	No	No
2451	8 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.3	40.5	45.6	43.5	1.3	3.0	No	No	No	No
2452	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	46.8	44.7	1.2	2.7	No	No	No	No
2453	11 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	47.1	45.0	1.8	3.3	No	No	No	No
2454	9 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	46.6	44.5	1.6	3.1	No	No	No	No
2455	5 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	46.4	44.3	1.4	3.1	No	No	No	No
2456	7 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.3	44.2	1.4	3.0	No	No	No	No
2457	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	46.7	44.6	1.4	2.8	No	No	No	No
2458	10 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	47.9	45.7	2.9	4.5	No	No	No	No
2459	7 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	48.6	46.5	2.8	4.4	No	No	No	No
2460	20 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	46.5	44.3	1.8	3.3	No	No	No	No
2461	1 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	47.6	45.5	2.0	3.5	No	No	No	No
2462	3 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.5	47.2	45.0	2.0	3.5	No	No	No	No
2463	18 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.5	47.0	44.9	2.0	3.4	No	No	No	No
2464	14 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	47.2	45.0	2.6	3.9	No	No	No	No
2465	2 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	47.7	45.6	2.4	3.8	No	No	No	No
2466	11 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.1	47.1	45.0	2.4	3.9	No	No	No	No
2467	1 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	47.3	45.2	1.8	3.5	No	No	No	No
2468	3 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	47.9	45.8	2.1	3.6	No	No	No	No
2469	1 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.8	46.4	44.3	2.2	3.5	No	No	No	No
2470	10 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.5	40.9	47.0	44.8	2.5	3.9	No	No	No	No
2471	2 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	43.5	39.7	44.6	42.4	1.1	2.7	No	No	No	No
2472	16 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.3	41.6	46.2	44.1	0.9	2.5	No	No	No	No
2473	26 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	47.1	45.0	1.5	3.1	No	No	No	No
2474	2 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	47.3	45.2	1.7	3.3	No	No	No	No
2475	14 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	47.9	45.7	2.3	3.8	No	No	No	No
2476	3 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	48.3	46.2	2.5	4.1	No	No	No	No
2477	5 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.2	48.2	46.1	2.3	3.9	No	No	No	No
2478	2 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	40.9	47.1	44.9	2.3	4.0	No	No	No	No
2479	9 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	48.3	46.2	2.4	3.9	No	No	No	No
2480	3 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.2	46.7	44.6	1.9	3.4	No	No	No	No
2481	9 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.4	47.3	45.2	2.2	3.8	No	No	No	No
2482	4 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.7	42.1	47.9	45.8	2.2	3.7	No	No	No	No
2483	4 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	46.7	44.5	1.8	3.4	No	No	No	No
2484	24 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.0	41.3	47.3	45.1	2.3	3.8	No	No	No	No
2485	16 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.7	40.9	47.5	45.4	2.8	4.5	No	No	No	No
2486	4 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	47.1	45.0	1.6	3.3	No	No	No	No
2487	4 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.2	41.4	47.5	45.4	2.3	4.0	No	No	No	No
2488	5 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.5	41.0	45.8	43.6	1.3	2.6	No	No	No	No
2489	7 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.5	47.9	45.8	3.0	4.3	No	No	No	No
2490	8 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	48.3	46.2	2.5	3.9	No	No	No	No
2491	11 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	48.3	46.2	2.5	4.1	No	No	No	No
2492	7 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.6	49.1	47.0	2.8	4.4	No	No	No	No
2493	18 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.3	40.6	47.0	44.8	2.7	4.2	No	No	No	No
2494	6 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	47.0	44.9	2.1	3.8	No	No	No	No
2495	17 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	46.3	42.8	48.4	46.3	2.1	3.5	No	No	No	No
2496	6 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.4	47.1	45.0	2.3	3.6	No	No	No	No
2497	7 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	49.4	47.3	2.5	4.0	No	No	No	No
2498	5 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.2	43.5	49.4	47.3	2.2	3.8	No	No	No	No
2499	22 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.7	42.0	48.0	45.9	2.3	3.9	No	No	No	No
2500	6 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.0	47.1	45.0	2.2	4.0	No	No	No	No
2501	9 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.8	49.3	47.2	2.8	4.4	No	No	No	No
2502	20 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.1	39.2	43.2	41.1	0.1	1.9	No	No	No	No
2503	8 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	47.6	45.5	2.5	4.0	No	No	No	No
2504	13 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	41.8	48.3	46.1	2.8	4.3	No	No	No	No
2505	6 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.1	42.6	48.8	46.7	2.7	4.1	No	No	No	No
2506	20 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.0	42.2	48.6	46.5	2.6	4.3	No	No	No	No
2507	19 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.5	41.8	46.3	44.3	0.8	2.5	No	No	No	No
2508	45 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	42.5	39.2	44.7	42.5	2.2	3.3	No	No	No	No
2509	8 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	47.4	45.3	2.7	4.3	No	No	No	No
2510	43 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	48.2	46.1	2.6	4.1	No	No	No	No
2511	11 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.0	49.7	47.6	2.9	4.6	No	No	No	No
2513	18 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	47.1	45.0	2.1	3.8	No	No	No	No
2514	10 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	48.0	45.9	2.5	4.0	No	No	No	No
2515	15 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.5	48.2	46.1	2.8	4.6	No	No	No	No
2516	41 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	47.3	45.2	1.5	2.9	No	No	No	No
2517	13 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.1	49.6	47.5	2.7	4.4	No	No	No	No
2518	10 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	47.8	45.7	2.9	4.4	No	No	No	No
2519	24 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.0	47.3	45.1	2.5	4.1	No	No	No	No
2520	39 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.5	43.0	49.1	47.0	2.6	4.0	No	No	No	No
2521	21 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	47.2	45.1	1.4	2.8	No	No	No	No
2522	37 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	42.2	47.3	45.2	1.6	3.0	No	No	No	No
2524	23 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.3	41.9	47.2	45.1	1.9	3.2	No	No	No	No
2525	15 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.0	49.7	47.5	3.0	4.5	No	No	No	No
2526	16 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.0	42.3	49.0	46.9	3.0	4.6	No	No	No	No
2527	12 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	40.8	47.1	45.0	2.3	4.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2528	17 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.6	48.6	46.5	3.2	4.9	No	No	No	No
2529	35 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	49.2	47.1	2.9	4.4	No	No	No	No
2530	12 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	48.0	45.9	1.6	3.4	No	No	No	No
2531	26 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.1	41.3	47.6	45.5	2.5	4.2	No	No	No	No
2532	56 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	46.5	44.4	0.9	2.4	No	No	No	No
2533	17 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.4	49.8	47.6	2.7	4.2	No	No	No	No
2534	14 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.6	48.2	46.1	3.1	4.5	No	No	No	No
2535	28 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	48.3	46.2	2.9	4.5	No	No	No	No
2536	19 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	48.5	46.3	3.1	4.6	No	No	No	No
2537	58 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.9	41.0	44.6	42.5	-0.3	1.5	No	No	No	No
2538	60 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.2	40.4	43.7	41.6	-0.5	1.2	No	No	No	No
2539	24 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	42.8	39.4	43.1	41.0	0.3	1.6	No	No	No	No
2540	14 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.0	49.1	47.0	2.3	4.0	No	No	No	No
2541	16 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.9	49.7	47.6	3.4	4.7	No	No	No	No
2542	21 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.2	42.5	49.6	47.5	3.4	5.0	No	No	No	No
2543	54 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	46.6	44.5	1.3	2.7	No	No	No	No
2544	31 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.6	42.9	49.7	47.5	3.1	4.6	No	No	No	No
2545	23 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.6	40.3	46.7	44.7	3.1	4.4	No	No	No	No
2546	30 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	49.2	47.1	3.4	5.0	No	No	No	No
2547	50 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.6	42.6	47.2	45.1	0.6	2.5	No	No	No	No
2548	52 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.2	46.5	44.3	0.2	2.1	No	No	No	No
2549	33 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	49.6	47.5	3.3	4.8	No	No	No	No
2550	6 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.8	51.6	54.5	52.4	-1.3	0.8	Yes	No	No	No
2551	29 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	48.8	46.7	2.5	4.0	No	No	No	No
2552	25 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.9	41.4	48.0	45.9	3.1	4.5	No	No	No	No
2553	32 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	48.9	46.8	2.9	4.3	No	No	No	No
2554	46 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	47.8	45.7	1.4	3.2	No	No	No	No
2555	48 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	48.4	46.3	2.0	3.8	No	No	No	No
2556	27 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	42.1	48.6	46.5	3.0	4.4	No	No	No	No
2557	26 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.8	40.2	44.5	42.3	0.7	2.1	No	No	No	No
2558	44 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	46.8	44.7	1.8	3.3	No	No	No	No
2559	42 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.4	47.6	45.4	1.3	3.0	No	No	No	No
2560	34 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.9	41.4	48.2	46.1	3.3	4.7	No	No	No	No
2561	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	40.5	44.7	42.6	0.1	2.1	No	No	No	No
2562	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	40.7	45.1	42.9	0.2	2.2	No	No	No	No
2563	40 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	47.2	43.2	47.9	45.8	0.7	2.6	No	No	No	No
2564	33 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.1	41.6	46.4	44.3	1.3	2.7	No	No	No	No
2565	14 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	41.5	46.2	44.1	0.6	2.6	No	No	No	No
2566	2 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.7	48.2	46.0	2.4	3.3	No	No	No	No
2567	2 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.0	43.2	49.7	47.5	2.7	4.3	No	No	No	No
2568	3 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.3	48.0	45.9	2.4	3.6	No	No	No	No
2569	7 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	53.2	49.2	53.5	51.5	0.3	2.3	Yes	No	No	Yes
2570	13 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.1	42.3	47.5	45.4	1.4	3.1	No	No	No	No
2571	38 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.7	48.0	45.8	2.0	3.1	No	No	No	No
2572	1 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	48.3	44.6	51.5	49.3	3.2	4.7	No	No	No	No
2573	4 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.4	43.7	50.9	48.8	3.5	5.1	No	No	No	No
2574	15 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.2	42.2	47.0	44.9	0.8	2.7	No	No	No	No
2575	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	45.5	43.4	0.6	2.2	No	No	No	No
2576	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.8	41.2	45.3	43.2	0.5	2.0	No	No	No	No
2577	12 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.6	43.6	49.0	46.9	1.4	3.3	No	No	No	No
2578	4 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.1	49.9	47.8	2.1	3.7	No	No	No	No
2579	36 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	48.7	46.5	3.7	5.1	No	No	No	No
2580	32 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	45.1	42.9	0.9	2.4	No	No	No	No
2581	35 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	45.9	43.7	1.3	2.6	No	No	No	No
2582	16 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	42.3	47.9	45.8	2.5	3.5	No	No	No	No
2583	17 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	42.3	47.9	45.8	2.5	3.5	No	No	No	No
2584	37 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.7	40.4	45.1	43.0	1.4	2.6	No	No	No	No
2585	3 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.0	50.8	48.7	3.0	4.7	No	No	No	No
2586	5 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.1	50.3	48.2	1.5	3.1	No	No	No	No
2587	6 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.0	50.8	48.6	3.0	4.6	No	No	No	No
2588	5 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	49.5	45.8	52.2	50.1	2.7	4.3	No	No	No	No
2589	11 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.2	41.9	47.2	45.1	2.0	3.2	No	No	No	No
2590	34 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	45.7	43.5	1.6	2.9	No	No	No	No
2591	3 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	46.5	44.4	1.0	2.7	No	No	No	No
2592	2 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.9	43.8	49.2	47.1	1.3	3.3	No	No	No	No
2593	10 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	47.4	45.2	1.4	2.7	No	No	No	No
2594	34 DEANS AVENUE SINGLETON HEIGHTS	Residential	55	50	41.9	39.0	43.3	41.2	1.4	2.2	No	No	No	No
2595	1 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.7	45.0	50.5	48.4	1.8	3.4	No	No	No	No
2599	9 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.7	41.9	46.8	44.7	1.1	2.8	No	No	No	No
2600	38 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.6	38.9	43.2	41.1	1.6	2.2	No	No	No	No
2601	4941 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	61.1	56.6	57.6	55.8	-3.5	-0.8	No	No	No	No
2602	9 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.0	50.6	48.5	1.9	3.5	No	No	No	No
2603	4 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.4	44.7	49.7	47.6	1.3	2.9	No	No	No	No
2604	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.6	38.4	42.5	40.4	0.9	2.0	No	No	No	No
2605	8 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.6	45.5	43.4	1.2	2.8	No	No	No	No
2606	5 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.1	44.3	49.5	47.4	1.4	3.1	No	No	No	No
2607	11 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.6	50.2	48.1	1.8	3.5	No	No	No	No
2608	7 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.8	44.7	1.9	3.5	No	No	No	No
2609	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.8	38.7	43.0	40.9	1.2	2.2	No	No	No	No
2610	6 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.0	44.2	49.4	47.3	1.4	3.1	No	No	No	No
2611	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.2	40.0	44.4	42.2	1.2	2.2	No	No	No	No
2612	13 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.1	49.4	47.3	1.3	3.2	No	No	No	No
2613	15 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.0	49.3	47.2	1.4	3.2	No	No	No	No
2614	44A CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	46.0	42.1	46.7	44.6	0.7	2.5	No	No	No	No
2615	4943 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	61.2	56.7	57.6	55.8	-3.6	-0.9	No	No	No	No
2616	14 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.5	49.3	47.2	0.8	2.7	No	No	No	No
2617	30 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.8	47.5	45.4	0.8	2.6	No	No	No	No
2618	32 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.0	47.6	45.5	0.7	2.5	No	No	No	No
2619	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.3	48.6	46.5	1.0	3.2	No	No	No	No
2620	42 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.5	41.4	45.7	43.7	0.2	2.3	No	No	No	No
2622	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	43.4	48.5	46.4	0.8	3.0	No	No	No	No
2624	20 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.1	47.6	45.5	0.7	2.4	No	No	No	No
2625	17 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	42.7	47.4	45.4	0.5	2.7	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2626	22 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.6	47.8	45.7	1.2	3.1	No	No	No	No
2627	20A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.8	38.4	43.5	41.3	1.7	2.9	No	No	No	No
2628	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	42.7	47.9	45.8	0.8	3.1	No	No	No	No
2629	19 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.1	46.8	44.7	0.9	2.6	No	No	No	No
2630	22A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.3	47.6	45.4	1.4	3.1	No	No	No	No
2631	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.2	49.1	47.0	0.9	2.8	No	No	No	No
2632	24 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.4	47.0	44.9	0.7	2.5	No	No	No	No
2633	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	46.5	44.4	1.6	3.3	No	No	No	No
2634	21 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.6	47.1	45.0	0.7	2.4	No	No	No	No
2635	26 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.8	40.0	45.1	43.0	1.3	3.0	No	No	No	No
2636	38 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.7	48.5	46.4	1.0	2.7	No	No	No	No
2638	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.4	49.3	47.3	0.8	2.9	No	No	No	No
2639	40 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.6	48.5	46.4	1.0	2.8	No	No	No	No
2640	23 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.7	47.4	45.3	0.8	2.6	No	No	No	No
2641	28 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.3	48.6	46.4	1.3	3.1	No	No	No	No
2643	25 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.7	47.2	45.1	0.5	2.4	No	No	No	No
2644	42 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.5	48.4	46.3	1.0	2.8	No	No	No	No
2645	28A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.2	49.2	47.1	0.9	2.9	No	No	No	No
2646	30 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.0	47.3	45.2	0.4	2.2	No	No	No	No
2647	44 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.2	47.6	45.5	0.7	2.3	No	No	No	No
2648	27 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.6	48.7	46.6	1.1	3.0	No	No	No	No
2649	32 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.4	48.1	46.1	0.6	2.7	No	No	No	No
2650	46 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.4	47.9	45.8	1.5	3.4	No	No	No	No
2652	29 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	43.9	49.0	46.9	1.2	3.0	No	No	No	No
2653	34 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	43.6	48.6	46.5	0.9	2.9	No	No	No	No
2654	36 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	43.5	48.2	46.2	0.5	2.7	No	No	No	No
2655	50 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	48.3	46.2	1.6	3.6	No	No	No	No
2656	52 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.4	48.8	46.7	1.4	3.3	No	No	No	No
2657	38 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.0	47.8	45.8	0.6	2.8	No	No	No	No
2658	42 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	43.6	48.8	46.7	1.0	3.1	No	No	No	No
2659	40 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.2	48.1	46.0	0.8	2.8	No	No	No	No
2661	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	55.8	52.6	57.6	55.5	1.8	2.9	Yes	Yes	No	Yes
2662	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.7	50.4	57.7	55.7	4.0	5.3	Yes	Yes	No	Yes
2663	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.0	50.6	57.5	55.5	3.5	4.9	Yes	Yes	No	Yes
2664	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.7	51.4	57.4	55.3	2.7	3.9	Yes	Yes	No	Yes
2665	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.2	50.9	57.4	55.4	3.2	4.5	Yes	Yes	No	Yes
2666	1-3 SCOTT STREET SINGLETON	Residential	0	0	39.5	36.8	54.5	52.9	15.0	16.1	No	No	Yes	Yes
2667	1 VIEW STREET SINGLETON	Residential	0	0	41.3	38.9	51.1	49.4	9.8	10.5	No	No	Yes	Yes
2667	1 VIEW STREET SINGLETON*	Residential	0	0	39.3	36.5	52.5	50.8	13.2	14.3				
2677	5065 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	60	55	54.7	54.5	56.2	54.2	1.5	-0.3	No	No	No	No
2679	5077 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	60	55	59.8	59.8	61.5	59.6	1.7	-0.2	Yes	Yes	No	Yes
2690	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	47.8	46.5	48.3	46.4	0.5	-0.1	No	No	No	No
2691	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	49.0	47.9	49.7	47.8	0.7	-0.1	No	No	No	No
2692	5066 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	59	54	51.0	50.4	53.0	51.0	2.0	0.6	No	No	No	No
2694	100 GARDNER CIRCUIT SINGLETON HEIGHTS	Residential	55	50	41.5	39.5	42.7	40.6	1.2	1.1	No	No	No	No
2697	92 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.5	38.4	41.9	39.8	1.4	1.4	No	No	No	No
2698	94 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.5	38.3	41.7	39.6	1.2	1.3	No	No	No	No
2700	96 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.5	38.3	41.8	39.7	1.3	1.4	No	No	No	No
2702	98 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.6	38.3	41.8	39.6	1.2	1.3	No	No	No	No
2703	90 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.6	37.5	40.9	38.7	1.3	1.2	No	No	No	No
2704	88 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.4	37.2	40.7	38.6	1.3	1.4	No	No	No	No
2705	86 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.2	37.0	40.6	38.5	1.4	1.5	No	No	No	No
2706	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.2	36.9	40.7	38.5	1.5	1.6	No	No	No	No
2707	48 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	42.8	47.7	45.6	0.9	2.8	No	No	No	No
2708	47 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	46.6	44.5	0.8	2.3	No	No	No	No
2709	49 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.1	47.6	45.5	0.6	2.4	No	No	No	No
2710	51 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	47.9	45.8	1.2	3.2	No	No	No	No
2711	53 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.6	47.9	45.8	1.4	3.2	No	No	No	No
2712	46 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.1	48.5	46.4	1.3	3.3	No	No	No	No
2714	48 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	42.7	48.2	46.1	1.3	3.4	No	No	No	No
2717	35 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.0	46.9	44.8	0.9	2.8	No	No	No	No
2718	44 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	42.9	47.9	45.8	0.9	2.9	No	No	No	No
2720	50 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.3	47.3	45.2	0.9	2.9	No	No	No	No
2721	37 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	40.5	45.2	43.1	0.7	2.6	No	No	No	No
2722	38 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	43.2	39.4	44.3	42.2	1.1	2.8	No	No	No	No
2723	52 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	41.8	47.2	45.1	1.2	3.3	No	No	No	No
2726	54 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.1	39.3	44.6	42.4	1.5	3.1	No	No	No	No
2727	40 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	42.6	38.9	43.3	41.2	0.7	2.3	No	No	No	No
2728	56 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	48.0	45.9	1.3	3.3	No	No	No	No
2729	60 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.2	39.3	44.8	42.7	1.6	3.4	No	No	No	No
2730	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.3	37.7	42.0	39.9	0.7	2.2	No	No	No	No
2731	64 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.2	37.7	42.3	40.1	1.1	2.4	No	No	No	No
2732	58 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.7	46.4	44.3	0.6	2.6	No	No	No	No
2733	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.6	39.0	44.5	42.4	1.9	3.4	No	No	No	No
2734	3 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	41.2	37.6	42.2	40.1	1.0	2.5	No	No	No	No
2735	2 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.7	36.3	40.9	38.8	1.2	2.5	No	No	No	No
2736	4 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	42.2	38.5	43.2	41.0	1.0	2.5	No	No	No	No
2737	1 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.0	36.6	41.2	39.0	1.2	2.4	No	No	No	No
2738	5 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.8	37.2	42.1	39.9	1.3	2.7	No	No	No	No
2739	68 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.8	38.5	42.9	40.8	1.1	2.3	No	No	No	No
2740	6 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.2	36.8	41.5	39.3	1.3	2.5	No	No	No	No
2741	6 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.9	38.6	43.0	40.8	1.1	2.2	No	No	No	No
2742	1 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	41.1	37.7	42.0	39.9	0.9	2.2	No	No	No	No
2743	7 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.5	37.2	41.7	39.6	1.2	2.4	No	No	No	No
2744	2 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.3	37.0	41.5	39.3	1.2	2.3	No	No	No	No
2745	5 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	42.2	38.8	43.3	41.2	1.1	2.4	No	No	No	No
2746	1 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.7	38.4	42.8	40.6	1.1	2.2	No	No	No	No
2747	4 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.3	38.3	43.0	40.9	1.7	2.6	No	No	No	No
2748	3 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.8	37.6	41.9	39.8	1.1	2.2	No	No	No	No
2749	2 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.1	38.0	42.6	40.4	1.5	2.4	No	No	No	No
2750	4 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.5	37.4	42.0	39.9	1.5	2.5	No	No	No	No
2751	8 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	41.5	38.3	42.6	40.5	1.1	2.2	No	No	No	No
2752	3 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.5	37.7	42.1	39.9	1.6	2.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - No Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2753	5 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.4	37.4	41.8	39.6	1.4	2.2	No	No	No	No
2754	74 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.0	37.4	41.6	39.4	1.6	2.0	No	No	No	No
2755	7 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.5	37.7	42.2	40.0	1.7	2.3	No	No	No	No
2757	6 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.4	37.5	42.0	39.9	1.6	2.4	No	No	No	No
2758	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.4	36.2	40.7	38.6	1.3	2.4	No	No	No	No
2759	76 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.3	36.9	40.9	38.7	1.6	1.8	No	No	No	No
2760	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.0	37.3	41.8	39.7	1.8	2.4	No	No	No	No
2762	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.7	37.1	41.0	38.9	1.3	1.8	No	No	No	No
2763	82 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.3	36.8	40.6	38.4	1.3	1.6	No	No	No	No
2764	84 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.6	37.2	40.9	38.7	1.3	1.5	No	No	No	No
2765	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.8	37.3	40.8	38.7	1.0	1.4	No	No	No	No
2766	5022 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	52.6	50.2	54.6	52.5	2.0	2.3	Yes	No	No	Yes
2130	4862 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	65.0	62.1	64.0	61.9	-1.0	-0.2	Yes	Yes	No	Yes
2229	4864 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	60.0	57.0	60.9	58.8	0.9	1.8	Yes	Yes	No	Yes

Note: * Facade with the greatest change in noise levels

Year of Opening - Noise Barrier

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1013	53 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	51.2	48.7	51.4	49.6	0.2	0.9	No	No	No	No
1015	61 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	50.0	47.6	50.3	48.4	0.3	0.8	No	No	No	No
1020	4245 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	61.2	58.8	61.2	59.3	0.0	0.5	No	No	No	No
1023	4244 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	68.5	66.0	68.6	66.7	0.1	0.7	No	No	No	No
1027	18 CEMETERY LANE WHITTINGHAM	Residential	60	55	59.7	57.3	59.8	57.9	0.1	0.6	No	No	No	No
1028	28 CEMETERY LANE WHITTINGHAM	Residential	60	55	56.6	54.2	56.6	54.8	0.0	0.6	No	No	No	No
1029	13 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	57.9	55.5	57.6	55.7	-0.3	0.2	No	No	No	No
1031	4253 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	74.4	72.0	74.5	72.6	0.1	0.6	No	No	No	No
1032	4 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	69.0	66.5	69.1	67.2	0.1	0.7	No	No	No	No
1041	18 NEWINGTON LANE WHITTINGHAM	Residential	60	55	57.8	55.4	57.9	56.0	0.1	0.6	Yes	No	No	No
1049	3 NEWINGTON LANE WHITTINGHAM	Residential	55	50	65.3	62.9	63.3	61.5	-2.0	-1.4	Yes	Yes	No	Yes
1051	4339 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	55	50	55.4	53.0	57.5	55.8	2.1	2.8	Yes	Yes	No	Yes
1055	48 MAITLAND ROAD SINGLETON	Residential	55	50	53.3	50.9	50.9	49.1	-2.4	-1.8	No	No	No	No
1060	8 THE GLADE GOWRIE	Residential	55	50	48.9	45.2	50.0	47.3	1.1	2.1	No	No	No	No
1070	6 THE GLADE GOWRIE	Residential	55	50	50.4	46.9	51.2	48.4	0.8	1.5	No	No	No	No
1073	18 ARDERSIER DRIVE SINGLETON	Residential	55	50	48.8	46.4	46.8	44.9	-2.0	-1.5	No	No	No	No
1075	19 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.9	50.5	50.7	48.8	-2.2	-1.7	No	No	No	No
1077	17 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.2	44.8	45.6	43.7	-1.6	-1.1	No	No	No	No
1078	4 THE GLADE GOWRIE	Residential	55	50	53.0	49.4	53.1	49.5	0.1	0.1	No	No	No	No
1081	20 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.0	50.6	50.8	48.9	-2.2	-1.7	No	No	No	No
1083	4403 NEW ENGLAND HIGHWAY SINGLETON	Residential	55	50	68.2	65.8	61.6	59.5	-6.6	-6.3	Yes	Yes	No	Yes
1085	16 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.3	44.9	45.6	43.7	-1.7	-1.2	No	No	No	No
1087	21 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.8	51.4	51.4	49.5	-2.4	-1.9	No	No	No	No
1089	15 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.2	43.8	44.9	43.0	-1.3	-0.8	No	No	No	No
1091	14 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.4	43.0	44.2	42.4	-1.2	-0.6	No	No	No	No
1093	22 ARDERSIER DRIVE SINGLETON	Residential	55	50	54.7	52.3	52.1	50.2	-2.6	-2.1	No	No	No	No
1095	11 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.3	42.9	43.9	42.0	-1.4	-0.9	No	No	No	No
1099	23 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.3	52.9	52.6	50.7	-2.7	-2.2	Yes	No	No	No
1101	13 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.7	44.3	45.2	43.3	-1.5	-1.0	No	No	No	No
1103	9 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.0	42.6	43.5	41.6	-1.5	-1.0	No	No	No	No
1106	2 THE GLADE GOWRIE	Residential	55	50	60.6	57.0	60.1	53.6	-0.5	-3.4	No	No	No	No
1107	12 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.4	44.0	45.0	43.1	-1.4	-0.9	No	No	No	No
1109	24 ARDERSIER DRIVE SINGLETON	Residential	55	50	54.9	52.5	52.2	50.3	-2.7	-2.2	No	No	No	No
1111	8 ARDERSIER DRIVE SINGLETON	Residential	55	50	44.7	42.3	43.3	41.4	-1.4	-0.9	No	No	No	No
1113	10 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.0	43.5	44.2	42.3	-1.8	-1.2	No	No	No	No
1115	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	44.3	41.9	42.9	41.0	-1.4	-0.9	No	No	No	No
1117	25 ARDERSIER DRIVE SINGLETON	Residential	55	50	57.0	54.6	54.0	52.0	-3.0	-2.6	Yes	No	No	No
1119	7 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.4	44.9	43.0	-1.9	-1.4	No	No	No	No
1121	26 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.2	47.8	47.6	45.7	-2.6	-2.1	No	No	No	No
1123	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.0	42.6	43.6	41.7	-1.4	-0.9	No	No	No	No
1125	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.0	42.6	43.4	41.5	-1.6	-1.1	No	No	No	No
1129	6 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.9	44.5	45.4	43.6	-1.5	-0.9	No	No	No	No
1131	27 ARDERSIER DRIVE SINGLETON	Residential	55	50	48.4	46.0	46.5	44.6	-1.9	-1.4	No	No	No	No
1133	28 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.3	46.9	46.9	44.9	-2.4	-2.0	No	No	No	No
1135	2 GASLIGHT PLACE SINGLETON	Residential	55	50	55.7	53.3	53.0	51.0	-2.7	-2.3	Yes	No	No	No
1137	5 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.3	45.0	43.0	-1.8	-1.3	No	No	No	No
1139	28 GREENWOOD AVENUE SINGLETON	Residential	55	50	46.7	44.3	45.1	43.3	-1.6	-1.0	No	No	No	No
1141	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.5	43.1	43.4	41.4	-2.1	-1.7	No	No	No	No
1147	24 GREENWOOD AVENUE SINGLETON	Residential	55	50	44.6	42.2	43.4	41.6	-1.2	-0.6	No	No	No	No
1149	7 GASLIGHT PLACE SINGLETON	Residential	55	50	47.8	45.4	46.3	44.5	-1.5	-0.9	No	No	No	No
1151	3 GASLIGHT PLACE SINGLETON	Residential	55	50	54.3	51.9	51.5	49.5	-2.8	-2.4	No	No	No	No
1155	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.2	43.8	44.6	42.7	-1.6	-1.1	No	No	No	No
1159	22 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.2	44.8	45.4	43.5	-1.8	-1.3	No	No	No	No
1161	6 GASLIGHT PLACE SINGLETON	Residential	55	50	50.3	47.9	48.0	46.0	-2.3	-1.9	No	No	No	No
1163	2 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.0	44.6	45.2	43.3	-1.8	-1.3	No	No	No	No
1165	48 MAITLAND ROAD SINGLETON	Residential	55	50	60.0	57.6	56.6	54.5	-3.4	-3.1	No	No	No	No
1167	1 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.0	44.6	44.9	42.9	-2.1	-1.7	No	No	No	No
1168	68 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	58.3	54.7	58.2	52.1	-0.1	-2.6	No	No	No	No
1169	30 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.8	48.4	48.5	46.6	-2.3	-1.8	No	No	No	No
1171	20 GREENWOOD AVENUE SINGLETON	Residential	55	50	46.6	44.2	44.1	42.1	-2.5	-2.1	No	No	No	No
1173	18 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.3	44.9	45.5	43.5	-1.8	-1.4	No	No	No	No
1177	16 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.0	44.6	45.2	43.3	-1.8	-1.3	No	No	No	No
1179	31 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.2	50.8	50.3	48.3	-2.9	-2.5	No	No	No	No
1181	4 GASLIGHT PLACE SINGLETON	Residential	55	50	55.5	53.1	52.5	50.5	-3.0	-2.6	No	No	No	No
1183	34 ARDERSIER DRIVE SINGLETON	Residential	55	50	51.8	49.4	49.1	47.1	-2.7	-2.3	No	No	No	No
1185	33 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.4	47.9	48.0	46.0	-2.4	-1.9	No	No	No	No
1187	14 GREENWOOD AVENUE SINGLETON	Residential	55	50	48.4	46.0	46.2	44.3	-2.2	-1.7	No	No	No	No
1189	32 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.3	50.8	50.3	48.3	-3.0	-2.5	No	No	No	No
1191	35 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.0	49.6	49.2	47.2	-2.8	-2.4	No	No	No	No
1193	19 GREENWOOD AVENUE SINGLETON	Residential	55	50	55.0	52.6	51.8	49.7	-3.2	-2.9	No	No	No	No
1195	12 GREENWOOD AVENUE SINGLETON	Residential	55	50	51.6	49.2	48.6	46.6	-3.0	-2.6	No	No	No	No
1207	15 GREENWOOD AVENUE SINGLETON	Residential	55	50	53.1	50.7	50.1	48.1	-3.0	-2.6	No	No	No	No
1211	9 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	65.5	63.1	61.7	59.6	-3.8	-3.5	No	No	No	No
1213	40 MAITLAND ROAD SINGLETON	Residential	55	50	66.8	64.3	63.0	60.9	-3.8	-3.4	No	No	No	No
1215	8 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.3	64.9	63.5	61.3	-3.8	-3.6	No	No	No	No
1216	70 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	54.7	51.0	54.0	50.0	-0.7	-1.0	No	No	No	No
1219	11 GREENWOOD AVENUE SINGLETON	Residential	55	50	56.9	54.4	53.4	51.3	-3.5	-3.1	No	No	No	No
1220	9 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.6	50.1	53.5	50.7	-0.1	0.6	Yes	No	No	No
1221	7 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.2	64.8	63.4	61.3	-3.8	-3.5	No	No	No	No
1222	7 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.4	51.4	53.8	51.6	-1.6	0.2	Yes	No	No	No
1224	11 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.3	49.2	52.2	49.8	-1.1	0.6	No	No	No	No
1225	6 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	68.1	65.7	64.3	62.2	-3.8	-3.5	No	No	No	No
1226	13 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	52.5	48.7	52.0	49.2	-0.5	0.5	No	No	No	No
1229	10 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	56.5	54.1	53.2	51.2	-3.3	-2.9	No	No	No	No
1230	8 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.8	50.7	53.0	50.8	-1.8	0.1	Yes	No	No	No
1231	36 MAITLAND ROAD SINGLETON	Residential	55	50	69.4	67.0	65.6	63.5	-3.8	-3.5	No	No	No	No
1233	34 MAITLAND ROAD SINGLETON	Residential	55	50	67.7	65.3	64.0	61.8	-3.7	-3.5	No	No	No	No
1234	15 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	52.7	48.7	51.9	49.5	-0.8	0.8	No	No	No	No
1235	35B WADDELLS LANE WHITTINGHAM	Residential	55	50	50.2	47.7	59.9	58.3	9.7	10.6	Yes	Yes	No	Yes
1237	30 MAITLAND ROAD SINGLETON	Residential	55	50	69.8	67.4	66.1	63.9	-3.7	-3.5	No	No	No	No
1238	10 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.2	50.1	53.0	50.7	-1.2	0.6	Yes	No	No	No
1239	5 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.7	55.2	54.0	51.8	-3.7	-3.4	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1241	12 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	54.8	52.4	52.0	50.0	-2.8	-2.4	No	No	No	No
1243	32 MAITLAND ROAD SINGLETON	Residential	55	50	69.6	67.2	65.8	63.7	-3.8	-3.5	No	No	No	No
1244	12 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.4	49.3	52.2	50.2	-1.2	0.9	No	No	No	No
1245	4 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	62.7	60.3	59.0	56.8	-3.7	-3.5	No	No	No	No
1246	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	53.5	49.2	51.3	49.3	-2.2	0.1	No	No	No	No
1247	13 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	53.7	51.3	51.2	49.3	-2.5	-2.0	No	No	No	No
1250	3 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.7	50.4	52.9	50.7	-1.8	0.3	Yes	No	No	No
1251	2 FERGUSON CLOSE SINGLETON	Residential	55	50	54.5	52.1	51.0	48.9	-3.5	-3.2	No	No	No	No
1252	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	52.2	48.1	51.2	49.0	-1.0	0.9	No	No	No	No
1253	1 FERGUSON CLOSE SINGLETON	Residential	55	50	57.7	55.2	54.1	51.9	-3.6	-3.3	No	No	No	No
1255	14 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	52.9	50.5	50.6	48.7	-2.3	-1.8	No	No	No	No
1256	4 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.2	50.9	53.7	51.6	-1.5	0.7	Yes	No	No	No
1258	14 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	52.5	48.8	51.5	49.5	-1.0	0.7	No	No	No	No
1259	15 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	52.1	49.6	50.0	48.1	-2.1	-1.5	No	No	No	No
1261	3 FERGUSON CLOSE SINGLETON	Residential	55	50	54.4	52.0	50.9	48.7	-3.5	-3.3	No	No	No	No
1262	5 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.2	50.0	53.3	51.3	-0.9	1.3	Yes	No	No	No
1263	2 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.2	54.8	53.6	51.4	-3.6	-3.4	No	No	No	No
1265	16 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	51.3	48.9	49.6	47.7	-1.7	-1.2	No	No	No	No
1267	4 FERGUSON CLOSE SINGLETON	Residential	55	50	52.4	50.0	49.1	47.0	-3.3	-3.0	No	No	No	No
1268	4945 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	58.6	54.1	55.1	53.2	-3.5	-0.9	No	No	No	No
1269	5 FERGUSON CLOSE SINGLETON	Residential	55	50	52.9	50.4	49.5	47.4	-3.4	-3.0	No	No	No	No
1271	1 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	54.6	52.2	51.1	48.9	-3.5	-3.3	No	No	No	No
1279	17 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	50.6	48.2	49.0	47.1	-1.6	-1.1	No	No	No	No
1289	20 WATERHOUSE AVENUE SINGLETON	Residential	55	50	55.1	52.7	51.6	49.5	-3.5	-3.2	No	No	No	No
1291	22 WATERHOUSE AVENUE SINGLETON	Residential	55	50	52.7	50.2	49.4	47.2	-3.3	-3.0	No	No	No	No
1293	24 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.9	48.5	48.1	46.0	-2.8	-2.5	No	No	No	No
1295	26 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.1	47.7	47.5	45.4	-2.6	-2.3	No	No	No	No
1297	28 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.6	47.1	47.0	45.0	-2.6	-2.1	No	No	No	No
1299	30 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.8	46.4	46.5	44.5	-2.3	-1.9	No	No	No	No
1301	32 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.9	47.5	48.3	46.5	-1.6	-1.0	No	No	No	No
1303	19 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.5	52.1	51.1	49.0	-3.4	-3.1	No	No	No	No
1309	17 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.2	51.8	50.8	48.7	-3.4	-3.1	No	No	No	No
1311	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	53.5	51.0	50.1	48.0	-3.4	-3.0	No	No	No	No
1313	23 WATERHOUSE AVENUE SINGLETON	Residential	55	50	51.2	48.8	48.1	46.1	-3.1	-2.7	No	No	No	No
1315	25 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.3	47.9	47.6	45.5	-2.7	-2.4	No	No	No	No
1317	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	46.5	44.0	45.7	43.9	-0.8	-0.1	No	No	No	No
1319	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.8	46.3	45.9	43.9	-2.9	-2.4	No	No	No	No
1320	72 KELSO STREET SINGLETON	Residential	55	50	50.1	47.7	47.7	45.8	-2.4	-1.9	No	No	No	No
1321	29 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.8	46.3	46.7	44.8	-2.1	-1.5	No	No	No	No
1322	31 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.6	46.1	46.8	44.9	-1.8	-1.2	No	No	No	No
1323	27 WATERHOUSE AVENUE SINGLETON	Residential	55	50	48.4	46.0	46.3	44.3	-2.1	-1.7	No	No	No	No
1324	70 KELSO STREET SINGLETON	Residential	55	50	48.0	45.6	47.2	45.4	-0.8	-0.2	No	No	No	No
1325	2 ELLEN AVENUE SINGLETON	Residential	55	50	49.6	47.2	47.6	45.7	-2.0	-1.5	No	No	No	No
1326	12 TULLOCH CLOSE SINGLETON	Residential	55	50	50.6	48.2	47.8	45.7	-2.8	-2.5	No	No	No	No
1327	9 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.8	45.4	45.8	43.9	-2.0	-1.5	No	No	No	No
1328	6 ELLEN AVENUE SINGLETON	Residential	55	50	47.9	45.5	46.1	44.2	-1.8	-1.3	No	No	No	No
1329	4 ELLEN AVENUE SINGLETON	Residential	55	50	48.9	46.5	46.9	45.0	-2.0	-1.5	No	No	No	No
1330	11 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.8	45.3	45.1	43.1	-2.7	-2.2	No	No	No	No
1331	7 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.6	45.1	45.5	43.6	-2.1	-1.5	No	No	No	No
1332	8 ELLEN AVENUE SINGLETON	Residential	55	50	50.0	47.5	48.4	46.6	-1.6	-0.9	No	No	No	No
1333	10 ELLEN AVENUE SINGLETON	Residential	55	50	49.2	46.7	48.2	46.4	-1.0	-0.3	No	No	No	No
1334	5 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	45.7	43.3	44.4	42.5	-1.3	-0.8	No	No	No	No
1335	68 KELSO STREET SINGLETON	Residential	55	50	47.7	45.3	46.8	45.0	-0.9	-0.3	No	No	No	No
1336	14 ELLEN AVENUE SINGLETON	Residential	55	50	50.6	48.2	50.6	48.9	0.0	0.7	No	No	No	No
1337	12 ELLEN AVENUE SINGLETON	Residential	55	50	48.9	46.5	48.2	46.5	-0.7	0.0	No	No	No	No
1338	1 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.5	44.1	44.7	42.7	-1.8	-1.4	No	No	No	No
1339	3 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.5	44.1	45.0	43.1	-1.5	-1.0	No	No	No	No
1340	16 ELLEN AVENUE SINGLETON	Residential	55	50	49.2	46.8	51.4	49.8	2.2	3.0	No	No	No	No
1341	66 KELSO STREET SINGLETON	Residential	55	50	46.4	43.9	46.1	44.3	-0.3	0.4	No	No	No	No
1343	10 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	49.0	46.6	46.4	44.3	-2.6	-2.3	No	No	No	No
1344	3 ELLEN AVENUE SINGLETON	Residential	55	50	43.1	40.7	44.9	43.3	1.8	2.6	No	No	No	No
1345	1 ELLEN AVENUE SINGLETON	Residential	55	50	46.9	44.5	45.4	43.6	-1.5	-0.9	No	No	No	No
1346	8 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.8	45.3	45.7	43.7	-2.1	-1.6	No	No	No	No
1347	6 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.5	45.1	45.4	43.5	-2.1	-1.6	No	No	No	No
1348	4 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.9	44.5	45.1	43.2	-1.8	-1.3	No	No	No	No
1349	103 KELSO STREET SINGLETON	Residential	55	50	44.9	42.5	44.1	42.2	-0.8	-0.3	No	No	No	No
1351	5 ELLEN AVENUE SINGLETON	Residential	55	50	44.4	42.0	45.4	43.7	1.0	1.7	No	No	No	No
1352	2 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.8	44.4	45.3	43.4	-1.5	-1.0	No	No	No	No
1353	64 KELSO STREET SINGLETON	Residential	55	50	48.0	45.5	46.2	44.3	-1.8	-1.2	No	No	No	No
1354	7 ELLEN AVENUE SINGLETON	Residential	55	50	46.2	43.8	50.0	48.4	3.8	4.6	No	No	No	No
1355	101 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	44.8	43.2	1.6	2.4	No	No	No	No
1356	39 ADA STREET SINGLETON	Residential	55	50	47.9	45.5	47.1	45.2	-0.8	-0.3	No	No	No	No
1357	44 ADA STREET SINGLETON	Residential	55	50	42.6	40.2	44.6	42.9	2.0	2.7	No	No	No	No
1358	50 ORCHARD AVENUE SINGLETON	Residential	55	50	48.1	45.7	46.0	44.0	-2.1	-1.7	No	No	No	No
1359	62 KELSO STREET SINGLETON	Residential	55	50	45.0	42.6	45.4	43.7	0.4	1.1	No	No	No	No
1360	99 KELSO STREET SINGLETON	Residential	55	50	43.7	41.2	44.9	43.2	1.2	2.0	No	No	No	No
1361	35B WADDELLS LANE SINGLETON	Residential	55	50	47.1	44.7	53.8	52.4	6.7	7.7	Yes	No	No	Yes
1362	12 WADDELLS AVENUE SINGLETON	Residential	55	50	48.1	45.7	50.8	49.2	2.7	3.5	No	No	No	No
1363	37 ADA STREET SINGLETON	Residential	55	50	45.0	42.6	47.2	45.6	2.2	3.0	No	No	No	No
1364	42 ADA STREET SINGLETON	Residential	55	50	42.9	40.5	44.8	43.1	1.9	2.6	No	No	No	No
1365	52 ORCHARD AVENUE SINGLETON	Residential	55	50	47.4	45.0	45.3	43.4	-2.1	-1.6	No	No	No	No
1366	54 ORCHARD AVENUE SINGLETON	Residential	55	50	47.2	44.8	45.1	43.1	-2.1	-1.7	No	No	No	No
1367	60 KELSO STREET SINGLETON	Residential	55	50	44.9	42.5	45.6	43.9	0.7	1.4	No	No	No	No
1368	35 ADA STREET SINGLETON	Residential	55	50	44.5	42.0	47.5	45.9	3.0	3.9	No	No	No	No
1369	10 WADDELLS AVENUE SINGLETON	Residential	55	50	48.1	45.7	50.7	49.2	2.6	3.5	No	No	No	No
1370	40 ADA STREET SINGLETON	Residential	55	50	42.5	40.0	44.9	43.3	2.4	3.3	No	No	No	No
1371	97 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	44.8	43.1	1.6	2.3	No	No	No	No
1372	95 KELSO STREET SINGLETON	Residential	55	50	43.4	40.9	44.9	43.2	1.5	2.3	No	No	No	No
1373	8 WADDELLS AVENUE SINGLETON	Residential	55	50	46.3	43.8	49.7	48.2	3.4	4.4	No	No	No	No
1374	47 ORCHARD AVENUE SINGLETON	Residential	55	50	47.6	45.2	45.8	43.9	-1.8	-1.3	No	No	No	No
1375	33 ADA STREET SINGLETON	Residential	55	50	42.1	39.6	44.9	43.3	2.8	3.7	No	No	No	No
1376	38 ADA STREET SINGLETON	Residential	55	50	41.7	39.2	45.0	43.4	3.3	4.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1377	49 ORCHARD AVENUE SINGLETON	Residential	55	50	47.4	45.0	45.5	43.5	-1.9	-1.5	No	No	No	No
1378	51 ORCHARD AVENUE SINGLETON	Residential	55	50	46.8	44.4	45.1	43.2	-1.7	-1.2	No	No	No	No
1379	58 KELSO STREET SINGLETON	Residential	55	50	46.4	44.0	45.2	43.3	-1.2	-0.7	No	No	No	No
1380	6 WADDELLS AVENUE SINGLETON	Residential	55	50	46.3	43.9	49.7	48.1	3.4	4.2	No	No	No	No
1381	63 BUCHAN AVENUE SINGLETON	Residential	55	50	48.0	45.6	45.6	43.6	-2.4	-2.0	No	No	No	No
1382	36 ADA STREET SINGLETON	Residential	55	50	42.0	39.6	45.9	44.4	3.9	4.8	No	No	No	No
1383	4 WADDELLS AVENUE SINGLETON	Residential	55	50	45.6	43.2	49.4	47.9	3.8	4.7	No	No	No	No
1384	31 ADA STREET SINGLETON	Residential	55	50	42.4	40.0	45.9	44.3	3.5	4.3	No	No	No	No
1385	61 BUCHAN AVENUE SINGLETON	Residential	55	50	47.3	44.9	45.0	43.0	-2.3	-1.9	No	No	No	No
1386	56 KELSO STREET SINGLETON	Residential	55	50	43.7	41.3	44.9	43.2	1.2	1.9	No	No	No	No
1387	59 BUCHAN AVENUE SINGLETON	Residential	55	50	47.1	44.7	45.2	43.3	-1.9	-1.4	No	No	No	No
1388	85 KELSO STREET SINGLETON	Residential	55	50	44.5	42.0	43.9	42.0	-0.6	0.0	No	No	No	No
1389	2 WADDELLS AVENUE SINGLETON	Residential	55	50	45.5	43.1	49.3	47.8	3.8	4.7	No	No	No	No
1390	85 KELSO STREET SINGLETON	Residential	55	50	42.2	39.7	46.2	44.7	4.0	5.0	No	No	No	No
1391	54 KELSO STREET SINGLETON	Residential	55	50	43.3	40.9	44.8	43.2	1.5	2.3	No	No	No	No
1392	57 BUCHAN AVENUE SINGLETON	Residential	55	50	42.9	40.5	44.5	42.8	1.6	2.3	No	No	No	No
1393	55 BUCHAN AVENUE SINGLETON	Residential	55	50	41.3	38.8	45.1	43.5	3.8	4.7	No	No	No	No
1394	52 KELSO STREET SINGLETON	Residential	55	50	43.7	41.2	44.8	43.2	1.1	2.0	No	No	No	No
1395	85 KELSO STREET SINGLETON	Residential	55	50	43.8	41.3	43.6	41.8	-0.2	0.5	No	No	No	No
1396	50 KELSO STREET SINGLETON	Residential	55	50	43.1	40.6	44.8	43.2	1.7	2.6	No	No	No	No
1397	83 KELSO STREET SINGLETON	Residential	55	50	40.0	37.5	44.0	42.4	4.0	4.9	No	No	No	No
1398	83 KELSO STREET SINGLETON	Residential	55	50	42.6	40.1	46.4	44.9	3.8	4.8	No	No	No	No
1399	46 KELSO STREET SINGLETON	Residential	55	50	42.5	40.1	44.8	43.2	2.3	3.1	No	No	No	No
1400	81 KELSO STREET SINGLETON	Residential	55	50	40.8	38.3	45.4	43.9	4.6	5.6	No	No	No	No
1401	44 KELSO STREET SINGLETON	Residential	55	50	42.0	39.6	44.5	42.9	2.5	3.3	No	No	No	No
1402	79 KELSO STREET SINGLETON	Residential	55	50	42.6	40.1	46.1	44.6	3.5	4.5	No	No	No	No
1403	42 KELSO STREET SINGLETON	Residential	55	50	42.7	40.2	44.8	43.1	2.1	2.9	No	No	No	No
1404	77 KELSO STREET SINGLETON	Residential	55	50	43.7	41.2	46.5	45.0	2.8	3.8	No	No	No	No
1405	75 KELSO STREET SINGLETON	Residential	55	50	40.9	38.4	44.3	42.7	3.4	4.3	No	No	No	No
1406	40 KELSO STREET SINGLETON	Residential	55	50	42.5	40.0	44.6	43.0	2.1	3.0	No	No	No	No
1407	38 KELSO STREET SINGLETON	Residential	55	50	42.3	39.8	44.6	43.0	2.3	3.2	No	No	No	No
1409	36 KELSO STREET SINGLETON	Residential	55	50	42.1	39.6	44.4	42.8	2.3	3.2	No	No	No	No
1410	73 KELSO STREET SINGLETON	Residential	55	50	39.6	37.2	44.1	42.6	4.5	5.4	No	No	No	No
1411	16 ADA STREET SINGLETON	Residential	55	50	44.0	41.6	47.4	45.9	3.4	4.3	No	No	No	No
1412	71 KELSO STREET SINGLETON	Residential	55	50	41.6	39.2	45.1	43.5	3.5	4.3	No	No	No	No
1413	34 KELSO STREET SINGLETON	Residential	55	50	41.6	39.2	44.4	42.8	2.8	3.6	No	No	No	No
1414	14 ADA STREET SINGLETON	Residential	55	50	44.2	41.7	47.3	45.7	3.1	4.0	No	No	No	No
1415	69 KELSO STREET SINGLETON	Residential	55	50	42.8	40.4	45.5	43.9	2.7	3.5	No	No	No	No
1416	13 ADA STREET SINGLETON	Residential	55	50	44.0	41.5	48.2	46.7	4.2	5.2	No	No	No	No
1417	2 DEAKIN AVENUE SINGLETON	Residential	55	50	38.5	35.9	44.1	42.6	5.6	6.7	No	No	No	No
1418	12 ADA STREET SINGLETON	Residential	55	50	42.1	39.7	45.6	44.0	3.5	4.3	No	No	No	No
1419	32A KELSO STREET SINGLETON	Residential	55	50	42.3	39.9	44.6	43.0	2.3	3.1	No	No	No	No
1420	67 KELSO STREET SINGLETON	Residential	55	50	41.9	39.4	45.3	43.7	3.4	4.3	No	No	No	No
1421	12 ADA STREET SINGLETON	Residential	55	50	40.6	38.1	44.5	42.9	3.9	4.8	No	No	No	No
1422	11 ADA STREET SINGLETON	Residential	55	50	42.7	40.2	47.9	46.4	5.2	6.2	No	No	No	No
1424	65 KELSO STREET SINGLETON	Residential	55	50	42.1	39.7	45.8	44.2	3.7	4.5	No	No	No	No
1425	10 ADA STREET SINGLETON	Residential	55	50	42.8	40.4	46.7	45.1	3.9	4.7	No	No	No	No
1426	9 ADA STREET SINGLETON	Residential	55	50	43.4	41.0	47.9	46.4	4.5	5.4	No	No	No	No
1427	8 ADA STREET SINGLETON	Residential	55	50	42.4	39.9	46.4	44.9	4.0	5.0	No	No	No	No
1428	15 ADA STREET SINGLETON	Residential	55	50	43.0	40.5	50.6	49.2	7.6	8.7	No	No	Yes	Yes
1428	15 ADA STREET SINGLETON*	Residential	55	50	37.6	35.0	48.8	47.4	11.2	12.4				
1429	63 KELSO STREET SINGLETON	Residential	55	50	38.9	36.5	43.5	41.9	4.6	5.4	No	No	No	No
1431	30 KELSO STREET SINGLETON	Residential	55	50	41.9	39.4	44.4	42.8	2.5	3.4	No	No	No	No
1432	6 ADA STREET SINGLETON	Residential	55	50	41.9	39.4	45.2	43.7	3.3	4.3	No	No	No	No
1433	4 ADA STREET SINGLETON	Residential	55	50	40.8	38.4	43.8	42.1	3.0	3.7	No	No	No	No
1434	61 KELSO STREET SINGLETON	Residential	55	50	41.8	39.3	43.8	42.2	2.0	2.9	No	No	No	No
1436	7 ADA STREET SINGLETON	Residential	55	50	43.2	40.8	47.5	45.9	4.3	5.1	No	No	No	No
1437	4 ADA STREET SINGLETON	Residential	55	50	42.3	39.8	45.2	43.6	2.9	3.8	No	No	No	No
1439	26 KELSO STREET SINGLETON	Residential	55	50	41.6	39.1	44.2	42.6	2.6	3.5	No	No	No	No
1440	2 ADA STREET SINGLETON	Residential	55	50	41.9	39.5	45.1	43.5	3.2	4.0	No	No	No	No
1441	5 ADA STREET SINGLETON	Residential	55	50	43.4	41.0	47.6	46.1	4.2	5.1	No	No	No	No
1442	59 KELSO STREET SINGLETON	Residential	55	50	40.0	37.5	43.8	42.3	3.8	4.8	No	No	No	No
1443	3 ADA STREET SINGLETON	Residential	55	50	39.3	36.9	46.0	44.5	6.7	7.6	No	No	No	No
1444	57 KELSO STREET SINGLETON	Residential	55	50	40.8	38.3	44.2	42.6	3.4	4.3	No	No	No	No
1445	6 BOND STREET SINGLETON	Residential	55	50	42.5	40.1	43.6	41.9	1.1	1.8	No	No	No	No
1446	1A ADA STREET SINGLETON	Residential	55	50	42.3	39.8	47.1	45.6	4.8	5.8	No	No	No	No
1447	4 BOND STREET SINGLETON	Residential	55	50	42.3	39.9	44.2	42.5	1.9	2.6	No	No	No	No
1448	55 KELSO STREET SINGLETON	Residential	55	50	39.8	37.3	44.2	42.6	4.4	5.3	No	No	No	No
1449	2 BOND STREET SINGLETON	Residential	55	50	40.8	38.4	45.1	43.6	4.3	5.2	No	No	No	No
1452	53 KELSO STREET SINGLETON	Residential	55	50	39.9	37.5	44.0	42.5	4.1	5.0	No	No	No	No
1454	51 KELSO STREET SINGLETON	Residential	55	50	40.4	38.0	44.1	42.5	3.7	4.5	No	No	No	No
1455	1 ADA STREET SINGLETON	Residential	55	50	44.0	41.5	48.9	47.5	4.9	6.0	No	No	No	No
1456	2 ROSE AVENUE SINGLETON	Residential	55	50	44.2	41.8	46.4	44.8	2.2	3.0	No	No	No	No
1457	40 ANDREW STREET SINGLETON	Residential	55	50	40.5	38.1	44.7	43.2	4.2	5.1	No	No	No	No
1458	6 ROSE AVENUE SINGLETON	Residential	55	50	44.9	42.5	46.9	45.3	2.0	2.8	No	No	No	No
1459	4 ROSE AVENUE SINGLETON	Residential	55	50	44.4	42.0	45.8	44.1	1.4	2.1	No	No	No	No
1460	38 ANDREW STREET SINGLETON	Residential	55	50	37.7	35.2	43.9	42.4	6.2	7.2	No	No	No	No
1462	10 ROSE AVENUE SINGLETON	Residential	55	50	45.6	43.2	46.6	45.0	1.0	1.8	No	No	No	No
1463	8 ROSE AVENUE SINGLETON	Residential	55	50	44.9	42.5	46.6	45.0	1.7	2.5	No	No	No	No
1464	36 ANDREW STREET SINGLETON	Residential	55	50	38.6	36.1	44.2	42.7	5.6	6.6	No	No	No	No
1465	12 ROSE AVENUE SINGLETON	Residential	55	50	45.9	43.5	47.6	46.0	1.7	2.5	No	No	No	No
1466	16 ROSE AVENUE SINGLETON	Residential	55	50	45.2	42.8	46.5	44.9	1.3	2.1	No	No	No	No
1467	14 ROSE AVENUE SINGLETON	Residential	55	50	45.8	43.3	47.2	45.6	1.4	2.3	No	No	No	No
1468	18 ROSE AVENUE SINGLETON	Residential	55	50	44.2	41.8	46.5	44.9	2.3	3.1	No	No	No	No
1469	20 ROSE AVENUE SINGLETON	Residential	55	50	41.8	39.3	46.5	44.9	4.7	5.6	No	No	No	No
1470	13 RENSHAW AVENUE SINGLETON	Residential	55	50	43.1	40.6	49.0	47.6	5.9	7.0	No	No	No	No
1471	35 ANDREW STREET SINGLETON	Residential	55	50	43.0	40.5	44.0	42.3	1.0	1.8	No	No	No	No
1472	3 ROSE AVENUE SINGLETON	Residential	55	50	43.9	41.5	44.2	42.5	0.3	1.0	No	No	No	No
1473	5 ROSE AVENUE SINGLETON	Residential	55	50	44.8	42.3	45.1	43.4	0.3	1.1	No	No	No	No
1474	26 VIEW STREET SINGLETON	Residential	55	50	45.3	42.9	46.2	44.5	0.9	1.6	No	No	No	No
1475	32 ANDREW STREET SINGLETON	Residential	55	50	40.3	37.8	44.2	42.6	3.9	4.8	No	No	No	No
1476	1 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.6	48.8	47.4	6.8	7.8	No	No	Yes	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1476	1 RENSHAW AVENUE SINGLETON*	Residential	55	50	34.4	31.8	45.5	44.0	11.1	12.2				
1477	32 ANDREW STREET SINGLETON	Residential	55	50	40.2	37.7	44.1	42.5	3.9	4.8	No	No	No	No
1478	29 VIEW STREET SINGLETON	Residential	55	50	42.6	40.1	47.6	46.2	5.0	6.1	No	No	No	No
1479	2 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.6	47.5	46.0	5.5	6.4	No	No	No	No
1480	32 ANDREW STREET SINGLETON	Residential	55	50	39.5	37.0	43.9	42.3	4.4	5.3	No	No	No	No
1482	33 ANDREW STREET SINGLETON	Residential	55	50	42.5	40.1	43.6	41.9	1.1	1.8	No	No	No	No
1483	24 VIEW STREET SINGLETON	Residential	55	50	42.2	39.7	45.8	44.2	3.6	4.5	No	No	No	No
1484	32 ANDREW STREET SINGLETON	Residential	55	50	39.9	37.4	43.9	42.3	4.0	4.9	No	No	No	No
1485	3 RENSHAW AVENUE SINGLETON	Residential	55	50	41.3	38.8	48.7	47.3	7.4	8.5	No	No	Yes	Yes
1485	3 RENSHAW AVENUE SINGLETON*	Residential	55	50	34.3	31.7	45.2	43.8	10.9	12.1				
1486	30 ANDREW STREET SINGLETON	Residential	55	50	40.6	38.1	44.0	42.4	3.4	4.3	No	No	No	No
1487	27 VIEW STREET SINGLETON	Residential	55	50	37.7	35.1	46.7	45.3	9.0	10.2	No	No	No	No
1488	4 RENSHAW AVENUE SINGLETON	Residential	55	50	41.2	38.7	47.3	45.8	6.1	7.1	No	No	No	No
1490	6 RENSHAW AVENUE SINGLETON	Residential	55	50	41.9	39.4	47.5	46.0	5.6	6.6	No	No	No	No
1491	22 VIEW STREET SINGLETON	Residential	55	50	40.6	38.2	45.2	43.7	4.6	5.5	No	No	No	No
1492	43 KELSO STREET SINGLETON	Residential	55	50	37.6	34.8	43.9	42.3	6.3	7.5	No	No	No	No
1493	5 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	48.7	47.2	7.3	8.3	No	No	No	No
1494	25 VIEW STREET SINGLETON	Residential	55	50	37.6	34.9	46.3	44.9	8.7	10.0	No	No	No	No
1495	8 RENSHAW AVENUE SINGLETON	Residential	55	50	40.4	37.9	47.4	45.9	7.0	8.0	No	No	No	No
1496	20 VIEW STREET SINGLETON	Residential	55	50	43.7	41.3	46.5	44.9	2.8	3.6	No	No	No	No
1497	7 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	48.5	47.1	7.1	8.2	No	No	No	No
1498	29 ANDREW STREET SINGLETON	Residential	55	50	42.9	40.4	43.9	42.2	1.0	1.8	No	No	No	No
1499	23 VIEW STREET SINGLETON	Residential	55	50	41.3	38.8	47.4	45.9	6.1	7.1	No	No	No	No
1500	10 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	47.6	46.1	6.2	7.2	No	No	No	No
1501	36A VICTORIA STREET GLENRIDDING	Residential	55	50	42.1	39.6	51.6	50.3	9.5	10.7	No	No	Yes	Yes
1501	36A VICTORIA STREET GLENRIDDING*	Residential	55	50	38.3	35.6	49.7	48.3	11.4	12.7				
1502	9 RENSHAW AVENUE SINGLETON	Residential	55	50	42.1	39.6	48.5	47.0	6.4	7.4	No	No	No	No
1503	18 VIEW STREET SINGLETON	Residential	55	50	42.9	40.4	46.2	44.6	3.3	4.2	No	No	No	No
1504	21 VIEW STREET SINGLETON	Residential	55	50	42.2	39.7	47.6	46.2	5.4	6.5	No	No	No	No
1505	28 ANDREW STREET SINGLETON	Residential	55	50	40.6	38.1	43.8	42.2	3.2	4.1	No	No	No	No
1507	19 VIEW STREET SINGLETON	Residential	55	50	38.6	36.2	46.8	45.4	8.2	9.2	No	No	No	No
1508	12 RENSHAW AVENUE SINGLETON	Residential	55	50	41.4	38.9	47.5	46.0	6.1	7.1	No	No	No	No
1509	11 RENSHAW AVENUE SINGLETON	Residential	55	50	35.8	33.2	45.6	44.1	9.8	10.9	No	No	No	No
1511	27 ANDREW STREET SINGLETON	Residential	55	50	41.5	39.0	44.3	42.7	2.8	3.7	No	No	No	No
1512	16 VIEW STREET SINGLETON	Residential	55	50	42.7	40.3	46.2	44.7	3.5	4.4	No	No	No	No
1513	26 ANDREW STREET SINGLETON	Residential	55	50	41.2	38.7	44.3	42.7	3.1	4.0	No	No	No	No
1514	17 VIEW STREET SINGLETON	Residential	55	50	43.4	41.0	47.9	46.4	4.5	5.4	No	No	No	No
1515	14 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	47.5	46.0	5.5	6.5	No	No	No	No
1516	25 ANDREW STREET SINGLETON	Residential	55	50	43.5	41.0	45.2	43.5	1.7	2.5	No	No	No	No
1517	14 VIEW STREET SINGLETON	Residential	55	50	42.2	39.8	46.1	44.5	3.9	4.7	No	No	No	No
1518	22 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	48.9	47.5	6.9	8.0	No	No	No	No
1519	20 RENSHAW AVENUE SINGLETON	Residential	55	50	41.3	38.9	46.5	45.0	5.2	6.1	No	No	No	No
1520	18 RENSHAW AVENUE SINGLETON	Residential	55	50	40.6	38.1	45.7	44.2	5.1	6.1	No	No	No	No
1521	15 VIEW STREET SINGLETON	Residential	55	50	43.2	40.7	47.8	46.3	4.6	5.6	No	No	No	No
1522	23 ANDREW STREET SINGLETON	Residential	55	50	42.9	40.4	44.8	43.1	1.9	2.7	No	No	No	No
1523	24 ANDREW STREET SINGLETON	Residential	55	50	41.1	38.5	43.7	42.0	2.6	3.5	No	No	No	No
1524	16 RENSHAW AVENUE SINGLETON	Residential	55	50	44.2	41.7	48.7	47.2	4.5	5.5	No	No	No	No
1525	12 VIEW STREET SINGLETON	Residential	55	50	39.0	36.2	45.4	43.8	6.4	7.6	No	No	No	No
1526	13 VIEW STREET SINGLETON	Residential	55	50	42.3	39.8	47.6	46.2	5.3	6.4	No	No	No	No
1527	12 RAILWAY STREET SINGLETON	Residential	55	50	40.8	38.3	48.4	47.0	7.6	8.7	No	No	No	No
1528	21 ANDREW STREET SINGLETON	Residential	55	50	38.8	36.3	44.1	42.5	5.3	6.2	No	No	No	No
1529	22 ANDREW STREET SINGLETON	Residential	55	50	40.3	37.8	43.4	41.8	3.1	4.0	No	No	No	No
1530	20 ANDREW STREET SINGLETON	Residential	55	50	39.6	37.1	43.3	41.7	3.7	4.6	No	No	No	No
1531	10 VIEW STREET SINGLETON	Residential	55	50	40.2	37.6	45.2	43.7	5.0	6.1	No	No	No	No
1532	10 RAILWAY STREET SINGLETON	Residential	55	50	40.0	37.3	48.7	47.3	8.7	10.0	No	No	No	No
1533	11 VIEW STREET SINGLETON	Residential	55	50	42.7	40.1	48.0	46.5	5.3	6.4	No	No	No	No
1534	19 ANDREW STREET SINGLETON	Residential	55	50	42.2	39.7	44.4	42.7	2.2	3.0	No	No	No	No
1535	8 VIEW STREET SINGLETON	Residential	55	50	40.0	37.4	45.3	43.7	5.3	6.3	No	No	No	No
1536	17 ANDREW STREET SINGLETON	Residential	55	50	41.3	38.7	44.2	42.5	2.9	3.8	No	No	No	No
1537	18 ANDREW STREET SINGLETON	Residential	55	50	39.2	36.7	43.3	41.7	4.1	5.0	No	No	No	No
1538	8B RAILWAY STREET SINGLETON	Residential	55	50	41.3	38.8	47.9	46.5	6.6	7.7	No	No	No	No
1539	9 VIEW STREET SINGLETON	Residential	55	50	39.6	37.1	47.3	45.9	7.7	8.8	No	No	No	No
1540	6 VIEW STREET SINGLETON	Residential	55	50	39.2	36.6	44.8	43.3	5.6	6.7	No	No	No	No
1542	8 RAILWAY STREET SINGLETON	Residential	55	50	40.4	37.8	48.1	46.7	7.7	8.9	No	No	No	No
1543	7 VIEW STREET SINGLETON	Residential	55	50	39.9	37.5	47.1	45.6	7.2	8.1	No	No	No	No
1544	16 ANDREW STREET SINGLETON	Residential	55	50	38.0	35.2	43.7	42.1	5.7	6.9	No	No	No	No
1545	15 ANDREW STREET SINGLETON	Residential	55	50	39.0	36.4	43.9	42.3	4.9	5.9	No	No	No	No
1549	2 SCOTT STREET SINGLETON	Residential	55	50	39.3	36.6	48.0	46.6	8.7	10.0	No	No	No	No
1550	5 VIEW STREET SINGLETON	Residential	55	50	42.2	39.7	47.8	46.3	5.6	6.6	No	No	No	No
1553	4 VIEW STREET SINGLETON	Residential	55	50	38.1	35.5	44.4	42.9	6.3	7.4	No	No	No	No
1555	3A VIEW STREET SINGLETON	Residential	55	50	38.2	35.5	46.9	45.5	8.7	10.0	No	No	No	No
1556	13 ANDREW STREET SINGLETON	Residential	55	50	38.5	35.7	44.4	42.8	5.9	7.1	No	No	No	No
1558	14A ANDREW STREET SINGLETON	Residential	55	50	41.5	38.9	44.3	42.6	2.8	3.7	No	No	No	No
1559	2 SCOTT STREET SINGLETON	Residential	55	50	40.4	37.8	47.9	46.5	7.5	8.7	No	No	No	No
1560	3 VIEW STREET SINGLETON	Residential	55	50	40.7	38.2	47.6	46.2	6.9	8.0	No	No	No	No
1561	2A VIEW STREET SINGLETON	Residential	55	50	38.0	35.5	44.8	43.3	6.8	7.8	No	No	No	No
1562	14 ANDREW STREET SINGLETON	Residential	55	50	38.8	36.2	43.8	42.3	5.0	6.1	No	No	No	No
1563	2 VIEW STREET SINGLETON	Residential	55	50	38.9	36.1	45.5	44.0	6.6	7.9	No	No	No	No
1564	9-11 ANDREW STREET SINGLETON	Residential	55	50	37.5	34.7	43.9	42.4	6.4	7.7	No	No	No	No
1565	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	40.9	38.3	47.9	46.5	7.0	8.2	No	No	No	No
1566	12 ANDREW STREET SINGLETON	Residential	55	50	39.0	36.4	43.9	42.4	4.9	6.0	No	No	No	No
1567	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	40.2	37.7	49.0	47.7	8.8	10.0	No	No	No	No
1568	68 CHURCH STREET SINGLETON	Residential	55	50	37.5	34.7	44.2	42.6	6.7	7.9	No	No	No	No
1569	70 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.2	45.4	43.9	6.6	7.7	No	No	No	No
1570	66 CHURCH STREET SINGLETON	Residential	55	50	38.3	35.7	43.8	42.3	5.5	6.6	No	No	No	No
1572	55 CHURCH STREET GLENRIDDING	Residential	55	50	40.3	37.7	49.6	48.2	9.3	10.5	No	No	Yes	Yes
1572	55 CHURCH STREET GLENRIDDING*	Residential	55	50	33.5	30.8	45.8	44.4	12.3	13.6				
1573	64 CHURCH STREET SINGLETON	Residential	55	50	36.9	34.2	43.4	41.8	6.5	7.6	No	No	No	No
1575	56 CHURCH STREET SINGLETON	Residential	55	50	38.4	35.6	43.9	42.3	5.5	6.7	No	No	No	No
1576	60 CHURCH STREET SINGLETON	Residential	55	50	38.5	35.7	43.9	42.4	5.4	6.7	No	No	No	No
1577	62 CHURCH STREET SINGLETON	Residential	55	50	37.6	34.8	43.8	42.2	6.2	7.4	No	No	No	No
1578	31 VICTORIA STREET GLENRIDDING	Residential	55	50	39.2	36.5	48.1	46.7	8.9	10.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1580	56 CHURCH STREET SINGLETON	Residential	55	50	38.3	35.5	43.9	42.4	5.6	6.9	No	No	No	No
1582	47 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.1	46.9	45.4	8.1	9.3	No	No	No	No
1584	30 VICTORIA STREET GLENRIDDING	Residential	55	50	37.3	34.5	47.3	45.9	10.0	11.4	No	No	No	No
1585	43 CHURCH STREET SINGLETON	Residential	55	50	38.5	35.6	45.4	43.9	6.9	8.3	No	No	No	No
1586	45 CHURCH STREET SINGLETON	Residential	55	50	39.6	36.8	46.3	44.8	6.7	8.0	No	No	No	No
1588	41 CHURCH STREET SINGLETON	Residential	55	50	38.3	35.6	44.0	42.4	5.7	6.8	No	No	No	No
1589	39A CHURCH STREET SINGLETON	Residential	55	50	38.7	35.8	44.6	43.1	5.9	7.3	No	No	No	No
1591	29 VICTORIA STREET GLENRIDDING	Residential	55	50	37.9	35.1	47.5	46.1	9.6	11.0	No	No	No	No
1592	37 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.1	44.6	43.1	5.8	7.0	No	No	No	No
1593	41 CHURCH STREET SINGLETON	Residential	55	50	39.3	36.4	45.9	44.4	6.6	8.0	No	No	No	No
1594	35 CHURCH STREET SINGLETON	Residential	55	50	37.6	34.8	44.3	42.7	6.7	7.9	No	No	No	No
1595	28 VICTORIA STREET GLENRIDDING	Residential	55	50	38.4	35.6	47.4	46.0	9.0	10.4	No	No	No	No
1597	30 CARRINGTON STREET GLENRIDDING	Residential	55	50	39.3	36.5	50.1	48.7	10.8	12.2	No	No	Yes	Yes
1598	17 KELSO STREET SINGLETON	Residential	55	50	39.4	36.9	44.0	42.4	4.6	5.5	No	No	No	No
1599	27 VICTORIA STREET GLENRIDDING	Residential	55	50	35.7	32.9	46.4	44.9	10.7	12.0	No	No	Yes	Yes
1600	8 ANDREW STREET SINGLETON	Residential	55	50	39.9	37.3	44.7	43.2	4.8	5.9	No	No	No	No
1601	26 VICTORIA STREET GLENRIDDING	Residential	55	50	39.3	36.5	48.1	46.6	8.8	10.1	No	No	Yes	Yes
1601	26 VICTORIA STREET GLENRIDDING*	Residential	55	50	33.8	31.2	45.4	43.9	11.6	12.7				
1602	6 ANDREW STREET SINGLETON	Residential	55	50	39.1	36.5	44.6	43.1	5.5	6.6	No	No	No	No
1603	1 ANDREW STREET SINGLETON	Residential	55	50	39.1	36.5	45.5	44.0	6.4	7.5	No	No	No	No
1605	15 KELSO STREET SINGLETON	Residential	55	50	39.2	36.6	44.2	42.7	5.0	6.1	No	No	No	No
1606	25 VICTORIA STREET GLENRIDDING	Residential	55	50	40.0	37.2	47.7	46.3	7.7	9.1	No	No	No	No
1607	13 KELSO STREET SINGLETON	Residential	55	50	38.5	35.9	44.2	42.7	5.7	6.8	No	No	No	No
1608	11 KELSO STREET SINGLETON	Residential	55	50	39.1	36.5	44.6	43.1	5.5	6.6	No	No	No	No
1609	23 VICTORIA STREET GLENRIDDING	Residential	55	50	39.8	37.1	47.9	46.4	8.1	9.3	No	No	No	No
1610	4 ANDREW STREET SINGLETON	Residential	55	50	39.0	36.4	44.7	43.2	5.7	6.8	No	No	No	No
1611	9 KELSO STREET SINGLETON	Residential	55	50	38.6	36.0	44.3	42.7	5.7	6.7	No	No	No	No
1614	7 KELSO STREET SINGLETON	Residential	55	50	39.3	36.7	44.6	43.1	5.3	6.4	No	No	No	No
1615	2 ANDREW STREET SINGLETON	Residential	55	50	38.4	35.8	44.8	43.3	6.4	7.5	No	No	No	No
1616	5 KELSO STREET SINGLETON	Residential	55	50	40.2	37.6	44.9	43.3	4.7	5.7	No	No	No	No
1620	3 KELSO STREET SINGLETON	Residential	55	50	39.7	37.1	44.6	43.1	4.9	6.0	No	No	No	No
1622	10 CROWN STREET GLENRIDDING	Residential	55	50	39.7	36.8	49.1	47.7	9.4	10.9	No	No	No	No
1623	35 CARRINGTON STREET GLENRIDDING	Residential	55	50	40.9	38.1	49.4	48.0	8.5	9.9	No	No	No	No
1626	48 ARMY CAMP ROAD GLENRIDDING	Residential	55	50	46.0	43.1	53.2	51.6	7.2	8.5	Yes	No	Yes	Yes
1626	48 ARMY CAMP ROAD GLENRIDDING*	Residential	55	50	39.9	37.2	51.3	49.7	11.4	12.5				
1630	8 KELSO STREET SINGLETON	Residential	55	50	39.5	36.9	44.5	43.0	5.0	6.1	No	No	No	No
1633	13 CROWN STREET GLENRIDDING	Residential	55	50	42.7	39.8	51.3	49.9	8.6	10.1	No	No	No	No
1634	19 VICTORIA STREET GLENRIDDING	Residential	55	50	38.9	36.1	47.2	45.7	8.3	9.6	No	No	No	No
1635	9 CROWN STREET GLENRIDDING	Residential	55	50	40.0	37.1	48.9	47.5	8.9	10.4	No	No	No	No
1636	33 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.0	39.1	49.6	48.2	7.6	9.1	No	No	No	No
1637	16 VICTORIA STREET GLENRIDDING	Residential	55	50	40.4	37.5	48.7	47.2	8.3	9.7	No	No	No	No
1638	9 ALBERT STREET SINGLETON	Residential	55	50	41.7	39.1	44.8	43.2	3.1	4.1	No	No	No	No
1639	16 ALBERT STREET SINGLETON	Residential	55	50	40.4	37.9	44.5	42.9	4.1	5.0	No	No	No	No
1640	18 VICTORIA STREET GLENRIDDING	Residential	55	50	41.6	38.8	47.3	45.8	5.7	7.0	No	No	No	No
1641	7 ALBERT STREET SINGLETON	Residential	55	50	38.8	36.1	44.2	42.7	5.4	6.6	No	No	No	No
1642	16 ALBERT STREET SINGLETON	Residential	55	50	40.9	38.3	43.9	42.3	3.0	4.0	No	No	No	No
1647	5 ALBERT STREET SINGLETON	Residential	55	50	41.2	38.5	44.3	42.7	3.1	4.2	No	No	No	No
1648	29 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.5	39.7	50.0	48.5	7.5	8.8	No	No	No	No
1649	13 WYNYARD STREET SINGLETON	Residential	55	50	39.0	36.4	43.9	42.4	4.9	6.0	No	No	No	No
1650	3 ALBERT STREET SINGLETON	Residential	55	50	39.4	36.8	44.2	42.7	4.8	5.9	No	No	No	No
1651	13 WYNYARD STREET SINGLETON	Residential	55	50	40.3	37.4	45.5	43.8	5.2	6.4	No	No	No	No
1653	1A ALBERT STREET SINGLETON	Residential	55	50	39.7	37.0	44.4	42.9	4.7	5.9	No	No	No	No
1654	12 ALBERT STREET SINGLETON	Residential	55	50	39.7	37.1	44.6	43	4.9	5.9	No	No	No	No
1658	15 VICTORIA STREET GLENRIDDING	Residential	55	50	38.1	35.2	46.3	44.8	8.2	9.6	No	No	No	No
1659	25 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.3	40.4	50.1	48.7	6.8	8.3	No	No	No	No
1660	10 ALBERT STREET SINGLETON	Residential	55	50	40.3	37.6	44.6	43.1	4.3	5.5	No	No	No	No
1662	1 ALBERT STREET SINGLETON	Residential	55	50	39.5	36.9	44.8	43.3	5.3	6.4	No	No	No	No
1664	8 ALBERT STREET SINGLETON	Residential	55	50	40.3	37.6	44.6	43.1	4.3	5.5	No	No	No	No
1666	4 KELSO STREET SINGLETON	Residential	55	50	40.2	37.4	45.9	44.3	5.7	6.9	No	No	No	No
1667	2 KELSO STREET SINGLETON	Residential	55	50	41.6	38.7	47.3	45.8	5.7	7.1	No	No	No	No
1668	3 RAWCLIFFE STREET SINGLETON	Residential	55	50	40.9	38.0	46.0	44.4	5.1	6.4	No	No	No	No
1671	21 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.7	40.8	49.5	48.1	5.8	7.3	No	No	No	No
1672	6 ALBERT STREET SINGLETON	Residential	55	50	40.2	37.6	44.5	43	4.3	5.4	No	No	No	No
1675	19 CARRINGTON STREET GLENRIDDING	Residential	55	50	44.4	41.4	49.7	48.2	5.3	6.8	No	No	No	No
1677	15 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.0	42.2	50.6	49.2	5.6	7.0	No	No	No	No
1678	4 ALBERT STREET SINGLETON	Residential	55	50	41.0	38.4	45.8	44.3	4.8	5.9	No	No	No	No
1681	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	39.4	36.5	45.2	43.6	5.8	7.1	No	No	No	No
1682	9 WYNYARD STREET SINGLETON	Residential	55	50	41.9	39.2	45.0	43.3	3.1	4.1	No	No	No	No
1684	9 WYNYARD STREET SINGLETON	Residential	55	50	41.0	38.3	44.8	43.1	3.8	4.8	No	No	No	No
1685	13 CARRINGTON STREET GLENRIDDING	Residential	55	50	47.2	44.3	51.7	50.2	4.5	5.9	No	No	No	No
1686	9 WYNYARD STREET SINGLETON	Residential	55	50	39.8	37.1	45.1	43.6	5.3	6.5	No	No	No	No
1687	14 CARRINGTON STREET GLENRIDDING	Residential	55	50	44.6	41.7	51.2	49.6	6.6	7.9	No	No	No	No
1688	12 VICTORIA STREET GLENRIDDING	Residential	55	50	42.8	39.9	49.0	47.5	6.2	7.6	No	No	No	No
1689	9 WYNYARD STREET SINGLETON	Residential	55	50	41.0	38.3	46.1	44.6	5.1	6.3	No	No	No	No
1690	75 PUTTY ROAD GLENRIDDING	Residential	55	50	61.1	58.2	61.9	60.3	0.8	2.1	Yes	Yes	No	Yes
1692	12 CARRINGTON STREET GLENRIDDING	Residential	55	50	46.4	43.5	51.3	49.8	4.9	6.3	No	No	No	No
1693	32 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	56.2	53.3	62.0	60.6	5.8	7.3	Yes	Yes	Yes	Yes
1693	32 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	43.7	40.8	60.1	58.8	16.4	18.0				
1694	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	40.9	38.0	45.8	44.2	4.9	6.2	No	No	No	No
1695	10 CARRINGTON STREET GLENRIDDING	Residential	55	50	46.6	43.7	51.6	50.0	5.0	6.3	No	No	No	No
1698	7 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.7	42.8	51.3	49.9	5.6	7.1	No	No	No	No
1700	69 BATHURST STREET SINGLETON	Residential	55	50	40.2	37.5	45.3	43.9	5.1	6.4	No	No	No	No
1701	8 CARRINGTON STREET GLENRIDDING	Residential	55	50	47.1	44.2	52.6	51.0	5.5	6.8	Yes	No	No	Yes
1703	5 CARRINGTON STREET GLENRIDDING	Residential	55	50	48.3	45.4	52.2	50.7	3.9	5.3	Yes	No	No	Yes
1705	8 MUNRO LANE SINGLETON	Residential	55	50	42.2	39.3	47.8	46.2	5.6	6.9	No	No	No	No
1706	6 CARRINGTON STREET GLENRIDDING	Residential	55	50	50.0	47.1	53.3	51.8	3.3	4.7	Yes	No	No	Yes
1708	3 CARRINGTON STREET GLENRIDDING	Residential	55	50	51.7	48.8	52.4	50.9	0.7	2.1	Yes	No	No	Yes
1709	7 WYNYARD STREET SINGLETON	Residential	55	50	39.6	36.9	45.3	43.8	5.7	6.9	No	No	No	No
1711	9 VICTORIA STREET GLENRIDDING	Residential	55	50	43.9	41.0	48.1	46.6	4.2	5.6	No	No	No	No
1713	7 WYNYARD STREET SINGLETON	Residential	55	50	41.9	39.2	45.9	44.2	4.0	5.0	No	No	No	No
1714	8 VICTORIA STREET GLENRIDDING	Residential	55	50	42.8	39.9	48.3	46.8	5.5	6.9	No	No	No	No
1715	67 BATHURST STREET SINGLETON	Residential	55	50	40.6	37.7	45.4	43.8	4.8	6.1	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1717	5 WYNYARD STREET SINGLETON	Residential	55	50	41.1	38.4	46.4	44.9	5.3	6.5	No	No	No	No
1719	65 BATHURST STREET SINGLETON	Residential	55	50	41.2	38.4	45.9	44.3	4.7	5.9	No	No	No	No
1721	3 WYNYARD STREET SINGLETON	Residential	55	50	40.8	38.0	46.7	45.2	5.9	7.2	No	No	No	No
1722	7 VICTORIA STREET GLENRIDDING	Residential	55	50	44.9	42.0	49.0	47.5	4.1	5.5	No	No	No	No
1723	63 BATHURST STREET SINGLETON	Residential	55	50	41.4	38.6	46.2	44.6	4.8	6.0	No	No	No	No
1724	1 WYNYARD STREET SINGLETON	Residential	55	50	43.1	40.2	48.1	46.5	5.0	6.3	No	No	No	No
1725	8 WYNYARD STREET SINGLETON	Residential	55	50	40.4	37.7	45.5	43.9	5.1	6.2	No	No	No	No
1727	6 VICTORIA STREET GLENRIDDING	Residential	55	50	45.5	42.6	49.3	47.8	3.8	5.2	No	No	No	No
1728	61 BATHURST STREET SINGLETON	Residential	55	50	41.4	38.5	45.9	44.3	4.5	5.8	No	No	No	No
1729	6 WYNYARD STREET SINGLETON	Residential	55	50	40.5	37.8	45.4	43.9	4.9	6.1	No	No	No	No
1730	5 VICTORIA STREET GLENRIDDING	Residential	55	50	45.6	42.7	49.5	48.0	3.9	5.3	No	No	No	No
1731	4 WYNYARD STREET SINGLETON	Residential	55	50	41.5	38.8	46.4	44.9	4.9	6.1	No	No	No	No
1732	59 BATHURST STREET SINGLETON	Residential	55	50	40.4	37.5	45.0	43.4	4.6	5.9	No	No	No	No
1733	4 VICTORIA STREET GLENRIDDING	Residential	55	50	44.0	41.1	48.4	46.9	4.4	5.8	No	No	No	No
1734	2 WYNYARD STREET SINGLETON	Residential	55	50	41.7	38.9	46.7	45.2	5.0	6.3	No	No	No	No
1735	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	48	45.1	51.1	49.6	3.1	4.5	No	No	No	No
1738	3 VICTORIA STREET GLENRIDDING	Residential	55	50	46.1	43.2	47.9	46.2	1.8	3.0	No	No	No	No
1739	76 PUTTY ROAD GLENRIDDING	Residential	55	50	43.1	40.2	53.5	51.9	10.4	11.7	Yes	No	Yes	Yes
1739	76 PUTTY ROAD GLENRIDDING*	Residential	55	50	38.2	35.3	50.2	48.6	12.0	13.3				
1740	9 PARK STREET SINGLETON	Residential	55	50	41	38.3	45.5	44	4.5	5.7	No	No	No	No
1741	5 FREDERICK STREET SINGLETON	Residential	55	50	41.4	38.6	46.6	45.1	5.2	6.5	No	No	No	No
1742	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	53.9	50.9	55.9	54.3	2.0	3.4	Yes	No	No	Yes
1744	2 VICTORIA STREET GLENRIDDING	Residential	55	50	47.4	44.5	49.2	47.6	1.8	3.1	No	No	No	No
1745	7 PARK STREET SINGLETON	Residential	55	50	40.1	37.5	44.7	43.1	4.6	5.6	No	No	No	No
1746	57 BATHURST STREET SINGLETON	Residential	55	50	41.4	38.8	45.7	44.1	4.3	5.3	No	No	No	No
1747	7 FREDERICK STREET SINGLETON	Residential	55	50	41.9	39.0	46.0	44.5	4.1	5.5	No	No	No	No
1748	5 PARK STREET SINGLETON	Residential	55	50	40.9	38.2	45.1	43.6	4.2	5.4	No	No	No	No
1750	1 VICTORIA STREET GLENRIDDING	Residential	55	50	49.6	46.7	51.4	49.8	1.8	3.1	No	No	No	No
1751	3 PARK STREET SINGLETON	Residential	55	50	37.8	35.1	43.9	42.4	6.1	7.3	No	No	No	No
1752	1 PARK STREET SINGLETON	Residential	55	50	42.2	39.3	47.0	45.4	4.8	6.1	No	No	No	No
1753	9 FREDERICK STREET SINGLETON	Residential	55	50	43.3	40.4	47.4	45.8	4.1	5.4	No	No	No	No
1756	55 BATHURST STREET SINGLETON	Residential	55	50	40.9	38.0	45.7	44.1	4.8	6.1	No	No	No	No
1757	12 PARK STREET SINGLETON	Residential	55	50	41.6	38.9	45.8	44.2	4.2	5.3	No	No	No	No
1758	2 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	51.8	48.9	52.8	51.1	1.0	2.2	Yes	No	No	Yes
1760	53 BATHURST STREET SINGLETON	Residential	55	50	41.1	38.2	45.6	44.0	4.5	5.8	No	No	No	No
1761	10 PARK STREET SINGLETON	Residential	55	50	41.3	38.6	45.6	44.0	4.3	5.4	No	No	No	No
1762	11 FREDERICK STREET SINGLETON	Residential	55	50	43.1	40.2	47.3	45.7	4.2	5.5	No	No	No	No
1763	9 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	59.2	56.3	59.0	57.4	-0.2	1.1	Yes	Yes	No	Yes
1764	8 PARK STREET SINGLETON	Residential	55	50	41.3	38.6	45.5	44.0	4.2	5.4	No	No	No	No
1765	44 BATHURST STREET SINGLETON	Residential	55	50	40.8	38.0	45.1	43.5	4.3	5.5	No	No	No	No
1766	6 PARK STREET SINGLETON	Residential	55	50	41.6	38.8	45.9	44.3	4.3	5.5	No	No	No	No
1767	23 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	45.3	42.5	55.7	54.2	10.4	11.7	Yes	No	Yes	Yes
1767	23 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	43.9	41.0	55.5	54.0	11.6	13.0				
1768	51 BATHURST STREET SINGLETON	Residential	55	50	39.9	37.1	44.7	43.1	4.8	6.0	No	No	No	No
1769	4 PARK STREET SINGLETON	Residential	55	50	41.3	38.5	45.9	44.3	4.6	5.8	No	No	No	No
1772	7 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	60.0	57.1	59.1	57.5	-0.9	0.4	No	No	No	No
1773	2 PARK STREET SINGLETON	Residential	55	50	42.5	39.6	46.4	44.7	3.9	5.1	No	No	No	No
1774	25 HARRIETT STREET SINGLETON	Residential	55	50	41.3	38.6	45.4	43.8	4.1	5.2	No	No	No	No
1776	23 HARRIETT STREET SINGLETON	Residential	55	50	41.1	38.4	45.5	43.9	4.4	5.5	No	No	No	No
1777	49 BATHURST STREET SINGLETON	Residential	55	50	41.2	38.6	45.1	43.5	3.9	4.9	No	No	No	No
1778	44 BATHURST STREET SINGLETON	Residential	55	50	41.8	39.0	45.3	43.7	3.5	4.7	No	No	No	No
1780	2 WALTER STREET SINGLETON	Residential	55	50	48.2	45.3	50.8	49.2	2.6	3.9	No	No	No	No
1782	21 HARRIETT STREET SINGLETON	Residential	55	50	41.0	38.3	45.4	43.9	4.4	5.6	No	No	No	No
1783	13A FREDERICK STREET SINGLETON	Residential	55	50	42.7	39.8	46.7	45.0	4.0	5.2	No	No	No	No
1784	30 HARRIETT STREET SINGLETON	Residential	55	50	41.3	38.6	45.2	43.6	3.9	5.0	No	No	No	No
1786	19 HARRIETT STREET SINGLETON	Residential	55	50	41.2	38.5	45.8	44.2	4.6	5.7	No	No	No	No
1788	28 HARRIETT STREET SINGLETON	Residential	55	50	40.8	38.1	45.0	43.4	4.2	5.3	No	No	No	No
1790	32 BATHURST STREET SINGLETON	Residential	55	50	41.8	38.9	45.0	43.3	3.2	4.4	No	No	No	No
1791	17 HARRIETT STREET SINGLETON	Residential	55	50	40.1	37.4	44.9	43.3	4.8	5.9	No	No	No	No
1792	26 HARRIETT STREET SINGLETON	Residential	55	50	40.3	37.6	44.8	43.3	4.5	5.7	No	No	No	No
1793	47 BATHURST STREET SINGLETON	Residential	55	50	40.1	37.3	45.0	43.3	4.9	6.0	No	No	No	No
1794	3 DUDDING STREET SINGLETON	Residential	55	50	45.6	42.7	48.7	47.1	3.1	4.4	No	No	No	No
1795	7 DUDDING STREET SINGLETON	Residential	55	50	44.6	41.8	48.2	46.6	3.6	4.8	No	No	No	No
1796	5 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	59.1	56.2	57.4	55.8	-1.7	-0.4	No	No	No	No
1797	6 DUDDING STREET SINGLETON	Residential	55	50	41.9	39.1	46.1	44.5	4.2	5.4	No	No	No	No
1798	15 HARRIETT STREET SINGLETON	Residential	55	50	42.7	39.8	46.5	44.9	3.8	5.1	No	No	No	No
1799	1 DUDDING STREET SINGLETON	Residential	55	50	46.1	43.2	49.1	47.5	3.0	4.3	No	No	No	No
1800	5 DUDDING STREET SINGLETON	Residential	55	50	45.2	42.3	48.4	46.9	3.2	4.6	No	No	No	No
1801	4 DUDDING STREET SINGLETON	Residential	55	50	41.9	39.0	45.9	44.3	4.0	5.3	No	No	No	No
1802	24 HARRIETT STREET SINGLETON	Residential	55	50	41.4	38.7	45.6	44.0	4.2	5.3	No	No	No	No
1803	26 HARRIETT STREET SINGLETON	Residential	55	50	40.8	37.9	44.7	43.1	3.9	5.2	No	No	No	No
1805	22 HARRIETT STREET SINGLETON	Residential	55	50	41.8	39.1	45.8	44.2	4.0	5.1	No	No	No	No
1806	45 BATHURST STREET SINGLETON	Residential	55	50	40.7	37.9	45.3	43.7	4.6	5.8	No	No	No	No
1808	4A DUDDING STREET SINGLETON	Residential	55	50	42.6	39.8	46.3	44.7	3.7	4.9	No	No	No	No
1809	20 HARRIETT STREET SINGLETON	Residential	55	50	41.7	38.9	45.8	44.2	4.1	5.3	No	No	No	No
1810	26 HARRIETT STREET SINGLETON	Residential	55	50	41.8	38.9	46.0	44.4	4.2	5.5	No	No	No	No
1811	43 BATHURST STREET SINGLETON	Residential	55	50	40.6	37.8	45.1	43.4	4.5	5.6	No	No	No	No
1812	2 DUDDING STREET SINGLETON	Residential	55	50	43.6	40.8	47.0	45.4	3.4	4.6	No	No	No	No
1813	3 LESLEY STREET SINGLETON	Residential	55	50	45.3	42.4	47.6	45.9	2.3	3.5	No	No	No	No
1814	2A DUDDING STREET SINGLETON	Residential	55	50	43.8	41.0	47.2	45.6	3.4	4.6	No	No	No	No
1815	11 HARRIETT STREET SINGLETON	Residential	55	50	42.7	39.9	46.3	44.7	3.6	4.8	No	No	No	No
1816	13 HARRIETT STREET SINGLETON	Residential	55	50	41.8	39.0	45.7	44.1	3.9	5.1	No	No	No	No
1817	16 HARRIETT STREET SINGLETON	Residential	55	50	42.2	39.4	45.9	44.3	3.7	4.9	No	No	No	No
1818	18 HARRIETT STREET SINGLETON	Residential	55	50	40.9	38.1	44.9	43.3	4.0	5.2	No	No	No	No
1819	41 BATHURST STREET SINGLETON	Residential	55	50	39.9	37.3	43.7	42.0	3.8	4.7	No	No	No	No
1820	29 ARGYLE STREET SINGLETON	Residential	55	50	40.8	38.1	43.8	42.1	3.0	4.0	No	No	No	No
1821	9 HARRIETT STREET SINGLETON	Residential	55	50	44.4	41.5	47.3	45.6	2.9	4.1	No	No	No	No
1822	1 LESLEY STREET SINGLETON	Residential	55	50	44.2	41.3	46.7	45.1	2.5	3.8	No	No	No	No
1823	7 HARRIETT STREET SINGLETON	Residential	55	50	43.8	40.9	47.2	45.5	3.4	4.6	No	No	No	No
1824	8 FREDERICK STREET SINGLETON	Residential	55	50	42.7	39.9	46.2	44.7	3.5	4.8	No	No	No	No
1825	25 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.8	45.5	43.8	3.9	5.0	No	No	No	No
1826	27 ARGYLE STREET SINGLETON	Residential	55	50	41.3	38.5	44.3	42.6	3.0	4.1	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1827	5 HARRIETT STREET SINGLETON	Residential	55	50	44.5	41.6	46.2	44.5	1.7	2.9	No	No	No	No
1828	10 FREDERICK STREET SINGLETON	Residential	55	50	43.2	40.3	46.6	45.0	3.4	4.7	No	No	No	No
1829	12 HARRIETT STREET SINGLETON	Residential	55	50	43.0	40.2	46.4	44.8	3.4	4.6	No	No	No	No
1830	32 ARGYLE STREET SINGLETON	Residential	55	50	41.2	38.5	44.4	42.8	3.2	4.3	No	No	No	No
1831	23 ARGYLE STREET SINGLETON	Residential	55	50	41.2	38.5	45.2	43.6	4.0	5.1	No	No	No	No
1832	15 FREDERICK STREET SINGLETON	Residential	55	50	41.4	38.6	45.1	43.5	3.7	4.9	No	No	No	No
1834	3 HARRIETT STREET SINGLETON	Residential	55	50	42.5	39.6	45.7	44.1	3.2	4.5	No	No	No	No
1835	10 HARRIETT STREET SINGLETON	Residential	55	50	43.9	41.1	46.9	45.3	3.0	4.2	No	No	No	No
1836	30 ARGYLE STREET SINGLETON	Residential	55	50	40.9	38.3	44.8	43.2	3.9	4.9	No	No	No	No
1837	1 HARRIETT STREET SINGLETON	Residential	55	50	43.5	40.6	45.0	43.3	1.5	2.7	No	No	No	No
1838	28 ARGYLE STREET SINGLETON	Residential	55	50	40.5	37.7	44.6	43.0	4.1	5.3	No	No	No	No
1839	21 ARGYLE STREET SINGLETON	Residential	55	50	39.6	36.8	44.6	43.0	5.0	6.2	No	No	No	No
1841	12 FREDERICK STREET SINGLETON	Residential	55	50	44.1	41.2	47.3	45.7	3.2	4.5	No	No	No	No
1842	8 HARRIETT STREET SINGLETON	Residential	55	50	44.2	41.4	47.1	45.5	2.9	4.1	No	No	No	No
1843	19 ARGYLE STREET SINGLETON	Residential	55	50	41.9	39.1	44.7	43.0	2.8	3.9	No	No	No	No
1844	24 ARGYLE STREET SINGLETON	Residential	55	50	41.0	38.3	45.3	43.7	4.3	5.4	No	No	No	No
1845	26 ARGYLE STREET SINGLETON	Residential	55	50	40.9	38.2	45.0	43.4	4.1	5.2	No	No	No	No
1846	17 ARGYLE STREET SINGLETON	Residential	55	50	41.3	38.6	45.1	43.5	3.8	4.9	No	No	No	No
1847	15 ARGYLE STREET SINGLETON	Residential	55	50	43.3	40.4	46.5	44.9	3.2	4.5	No	No	No	No
1848	14 FREDERICK STREET SINGLETON	Residential	55	50	44.2	41.3	47.3	45.6	3.1	4.3	No	No	No	No
1849	6 HARRIETT STREET SINGLETON	Residential	55	50	44.4	41.6	47.3	45.7	2.9	4.1	No	No	No	No
1850	4 HARRIETT STREET SINGLETON	Residential	55	50	43.7	40.8	46.7	45.1	3.0	4.3	No	No	No	No
1851	22 ARGYLE STREET SINGLETON	Residential	55	50	42.3	39.4	45.6	44.0	3.3	4.6	No	No	No	No
1853	13 ARGYLE STREET SINGLETON	Residential	55	50	41.4	38.6	44.7	43.1	3.3	4.5	No	No	No	No
1854	20 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.9	45.6	44.0	4.0	5.1	No	No	No	No
1856	9 ARGYLE STREET SINGLETON	Residential	55	50	44.8	42.0	47.7	46.1	2.9	4.1	No	No	No	No
1857	11 ARGYLE STREET SINGLETON	Residential	55	50	43.1	40.2	46.2	44.6	3.1	4.4	No	No	No	No
1858	18 ARGYLE STREET SINGLETON	Residential	55	50	41.7	38.9	45.6	44.0	3.9	5.1	No	No	No	No
1859	16 ARGYLE STREET SINGLETON	Residential	55	50	43.4	40.5	46.2	44.5	2.8	4.0	No	No	No	No
1861	7 ARGYLE STREET SINGLETON	Residential	55	50	45.4	42.6	48.1	46.5	2.7	3.9	No	No	No	No
1862	25 GAS STREET SINGLETON	Residential	55	50	42.4	39.7	45.7	44.1	3.3	4.4	No	No	No	No
1864	14 ARGYLE STREET SINGLETON	Residential	55	50	42.2	39.4	45.9	44.3	3.7	4.9	No	No	No	No
1865	5 ARGYLE STREET SINGLETON	Residential	55	50	46.2	43.4	48.6	47.0	2.4	3.6	No	No	No	No
1866	16 ARGYLE STREET SINGLETON	Residential	55	50	43.0	40.1	46.0	44.4	3.0	4.3	No	No	No	No
1867	12 ARGYLE STREET SINGLETON	Residential	55	50	42.5	39.7	45.9	44.3	3.4	4.6	No	No	No	No
1869	3 ARGYLE STREET SINGLETON	Residential	55	50	48.0	45.1	49.0	47.4	1.0	2.3	No	No	No	No
1870	19 GAS STREET SINGLETON	Residential	55	50	41.7	39.0	45.3	43.7	3.6	4.7	No	No	No	No
1871	21 GAS STREET SINGLETON	Residential	55	50	44.4	41.6	44.8	43.0	0.4	1.4	No	No	No	No
1873	10 ARGYLE STREET SINGLETON	Residential	55	50	44.1	41.1	45.8	44.2	1.7	3.1	No	No	No	No
1874	8 ARGYLE STREET SINGLETON	Residential	55	50	42.9	40.1	46.1	44.5	3.2	4.4	No	No	No	No
1875	17 FREDERICK STREET SINGLETON	Residential	55	50	43.9	40.9	46.3	44.6	2.4	3.7	No	No	No	No
1876	17 GAS STREET SINGLETON	Residential	55	50	39.8	37.0	44.2	42.6	4.4	5.6	No	No	No	No
1881	6 ARGYLE STREET SINGLETON	Residential	55	50	43.4	40.6	46.2	44.6	2.8	4.0	No	No	No	No
1882	4 ARGYLE STREET SINGLETON	Residential	55	50	44.8	42.0	47.1	45.5	2.3	3.5	No	No	No	No
1884	15 GAS STREET SINGLETON	Residential	55	50	41.7	39.0	45.3	43.7	3.6	4.7	No	No	No	No
1885	22-26 JOHN STREET SINGLETON	Residential	55	50	60.6	57.6	58.6	57.0	-2.0	-0.6	No	No	No	No
1886	2 ARGYLE STREET SINGLETON	Residential	55	50	46.0	43.1	47.9	46.3	1.9	3.2	No	No	No	No
1887	12A GAS STREET SINGLETON	Residential	55	50	45.7	42.8	46.3	44.6	0.6	1.8	No	No	No	No
1888	13 GAS STREET SINGLETON	Residential	55	50	41.4	38.6	45.4	43.8	4.0	5.2	No	No	No	No
1889	28 JOHN STREET SINGLETON	Residential	55	50	59.3	56.4	57.5	55.9	-1.8	-0.5	No	No	No	No
1890	7 MARY STREET SINGLETON	Residential	55	50	62.0	59.1	59.5	57.8	-2.5	-1.3	No	No	No	No
1891	11 GAS STREET SINGLETON	Residential	55	50	44.6	41.7	46.1	44.5	1.5	2.8	No	No	No	No
1892	9 MARY STREET SINGLETON	Residential	55	50	56.4	53.5	55.5	53.9	-0.9	0.4	No	No	No	No
1895	10 GAS STREET SINGLETON	Residential	55	50	41.8	39.0	45.1	43.5	3.3	4.5	No	No	No	No
1896	11 MARY STREET SINGLETON	Residential	55	50	52.9	50.0	53.5	51.9	0.6	1.9	Yes	No	No	No
1897	8 GAS STREET SINGLETON	Residential	55	50	42.1	39.3	45.2	43.6	3.1	4.3	No	No	No	No
1898	9 GAS STREET SINGLETON	Residential	55	50	47.5	44.6	47.1	45.4	-0.4	0.8	No	No	No	No
1899	30 JOHN STREET SINGLETON	Residential	55	50	66.2	63.3	63.9	62.2	-2.3	-1.1	No	No	No	No
1900	13 MARY STREET SINGLETON	Residential	55	50	51.5	48.6	53.1	51.5	1.6	2.9	Yes	No	Yes	Yes
1900	13 MARY STREET SINGLETON*	Residential	55	50	38.5	35.6	49.7	48.1	11.2	12.5				
1901	7 GAS STREET SINGLETON	Residential	55	50	47.4	44.5	46.9	45.1	-0.5	0.6	No	No	No	No
1902	6 GAS STREET SINGLETON	Residential	55	50	46.1	43.2	47.6	45.9	1.5	2.7	No	No	No	No
1906	9 RYAN AVENUE SINGLETON	Residential	55	50	61.7	58.8	59.4	57.7	-2.3	-1.1	No	No	No	No
1910	11 RYAN AVENUE SINGLETON	Residential	55	50	55.2	52.3	53.8	52.1	-1.4	-0.2	No	No	No	No
1913	53 JOHN STREET SINGLETON	Residential	55	50	50.1	47.2	48.9	47.2	-1.2	0.0	No	No	No	No
1914	2 RYAN AVENUE SINGLETON	Residential	55	50	59.8	56.9	57.6	56.0	-2.2	-0.9	No	No	No	No
1917	4 RYAN AVENUE SINGLETON	Residential	55	50	54.0	51.1	53.3	51.6	-0.7	0.5	No	No	No	No
1918	6 RYAN AVENUE SINGLETON	Residential	55	50	51.3	48.4	51.6	50.0	0.3	1.6	No	No	No	No
1919	59 JOHN STREET SINGLETON	Residential	55	50	52.4	49.5	50.9	49.2	-1.5	-0.3	No	No	No	No
1920	59 JOHN STREET SINGLETON	Residential	55	50	68.2	65.3	66.0	64.4	-2.2	-0.9	No	No	No	No
1931	48 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.5	37.6	55.9	54.2	15.4	16.6	Yes	No	Yes	Yes
1932	2 NOBLE CLOSE DARLINGTON	Residential	55	50	40.8	37.7	55.9	54.3	15.1	16.6	Yes	No	Yes	Yes
1933	3 NOBLE CLOSE DARLINGTON	Residential	55	50	44.0	40.8	57.4	55.8	13.4	15.0	Yes	Yes	Yes	Yes
1934	46 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.1	38.2	52.3	50.6	11.2	12.4	Yes	No	Yes	Yes
1935	4 NOBLE CLOSE DARLINGTON	Residential	55	50	46.4	42.7	54.7	53.1	8.3	10.4	Yes	No	Yes	Yes
1935	4 NOBLE CLOSE DARLINGTON*	Residential	55	50	39.1	36.0	52.0	50.4	12.9	14.4				
1936	6 NOBLE CLOSE DARLINGTON	Residential	55	50	43.5	40.2	51.2	49.5	7.7	9.3	No	No	Yes	Yes
1936	6 NOBLE CLOSE DARLINGTON*	Residential	55	50	40.1	37.1	50.9	49.3	10.8	12.2				
1937	5 NOBLE CLOSE DARLINGTON	Residential	55	50	46.1	42.4	53.5	51.8	7.4	9.4	Yes	No	Yes	Yes
1937	5 NOBLE CLOSE DARLINGTON*	Residential	55	50	39.5	36.4	51.7	50.0	12.2	13.6				
1938	44 SIMPSON TERRACE DARLINGTON	Residential	55	50	39.8	37.0	50.8	49.1	11.0	12.1	No	No	Yes	Yes
1940	3 SEVER CLOSE DARLINGTON	Residential	55	50	41.8	38.7	50.8	49.2	9.0	10.5	No	No	Yes	Yes
1940	3 SEVER CLOSE DARLINGTON*	Residential	55	50	38.0	35.0	50.4	48.7	12.4	13.7				
1941	2 SEVER CLOSE DARLINGTON	Residential	55	50	45.4	41.8	50.5	48.8	5.1	7.0	No	No	Yes	Yes
1941	2 SEVER CLOSE DARLINGTON*	Residential	55	50	37.7	34.6	48.8	47.2	11.1	12.6				
1942	4 SEVER CLOSE DARLINGTON	Residential	55	50	46.0	42.2	53.4	51.8	7.4	9.6	Yes	No	No	Yes
1943	40 SIMPSON TERRACE DARLINGTON	Residential	55	50	39.4	36.5	50.1	48.5	10.7	12.0	No	No	Yes	Yes
1944	5 SEVER CLOSE DARLINGTON	Residential	55	50	45.8	42.1	52.9	51.2	7.1	9.1	Yes	No	Yes	Yes
1944	5 SEVER CLOSE DARLINGTON*	Residential	55	50	37.8	34.7	50.1	48.4	12.3	13.7				
1945	7 SEVER CLOSE DARLINGTON	Residential	55	50	45.2	41.7	50.4	48.6	5.2	6.9	No	No	No	No
1946	8 SEVER CLOSE DARLINGTON	Residential	55	50	45.8	42.1	50.1	48.3	4.3	6.2	No	No	No	No
1947	6 SEVER CLOSE DARLINGTON	Residential	55	50	45.5	41.8	51.0	49.2	5.5	7.4	No	No	Yes	Yes

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1947	6 SEVER CLOSE DARLINGTON*	Residential	55	50	38.0	34.9	48.6	46.9	10.6	12.0				
1948	38 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.9	43.0	48.7	46.9	2.8	3.9	No	No	No	No
1949	36 SIMPSON TERRACE DARLINGTON	Residential	55	50	46.3	43.4	50.0	48.2	3.7	4.8	No	No	No	No
1950	3 BUTTON CLOSE DARLINGTON	Residential	55	50	41.7	38.6	47.6	45.8	5.9	7.2	No	No	Yes	Yes
1950	3 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.3	32.2	46.6	44.9	11.3	12.7				
1951	2 BUTTON CLOSE DARLINGTON	Residential	55	50	39.7	36.6	49.3	47.7	9.6	11.1	No	No	Yes	Yes
1951	2 BUTTON CLOSE DARLINGTON*	Residential	55	50	34.9	31.9	46.9	45.3	12.0	13.4				
1952	4 BUTTON CLOSE DARLINGTON	Residential	55	50	40.8	37.7	48.7	47.0	7.9	9.3	No	No	Yes	Yes
1952	4 BUTTON CLOSE DARLINGTON*	Residential	55	50	37.7	34.5	48.6	46.9	10.9	12.4				
1953	5 BUTTON CLOSE DARLINGTON	Residential	55	50	41.8	38.6	49.0	47.3	7.2	8.7	No	No	No	No
1954	34 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.4	37.4	46.3	44.6	5.9	7.2	No	No	No	No
1955	9 BUTTON CLOSE DARLINGTON	Residential	55	50	40.0	36.9	48.5	46.9	8.5	10.0	No	No	Yes	Yes
1955	9 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.0	31.9	46.0	44.4	11.0	12.5				
1956	29 SIMPSON TERRACE DARLINGTON	Residential	55	50	38.1	35.1	47.6	45.9	9.5	10.8	No	No	No	No
1957	6 BUTTON CLOSE DARLINGTON	Residential	55	50	45.5	41.9	51.5	49.7	6.0	7.8	No	No	Yes	Yes
1957	6 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.6	32.6	48.1	46.5	12.5	13.9				
1958	8 BUTTON CLOSE DARLINGTON	Residential	55	50	42.5	39.4	48.7	47.0	6.2	7.6	No	No	Yes	Yes
1958	8 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.3	32.2	46.5	44.9	11.2	12.7				
1959	7 BUTTON CLOSE DARLINGTON	Residential	55	50	45.5	41.9	50.7	49.0	5.2	7.1	No	No	Yes	Yes
1959	7 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.7	32.6	46.5	44.8	10.8	12.2				
1960	32 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.8	37.6	46.9	45.2	6.1	7.6	No	No	No	No
1961	11 GRAINGER CRESCENT DARLINGTON	Residential	55	50	43.2	40.0	49.8	48.1	6.6	8.1	No	No	No	No
1963	27 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.5	38.4	47.0	45.2	5.5	6.8	No	No	No	No
1964	30 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.3	38.1	46.8	45.1	5.5	7.0	No	No	No	No
1965	9 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.4	45.6	49.6	47.7	1.2	2.1	No	No	No	No
1966	7 ELLIOT CLOSE DARLINGTON	Residential	55	50	41.1	38.0	48.4	46.7	7.3	8.7	No	No	No	No
1968	8 ELLIOT CLOSE DARLINGTON	Residential	55	50	38.5	35.3	49.8	48.1	11.3	12.8	No	No	Yes	Yes
1969	25 SIMPSON TERRACE DARLINGTON	Residential	55	50	47.1	44.2	47.5	45.6	0.4	1.4	No	No	No	No
1970	6 ELLIOT CLOSE DARLINGTON	Residential	55	50	42.9	39.8	48.2	46.5	5.3	6.7	No	No	No	No
1971	28 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.3	38.2	46.5	44.7	5.2	6.5	No	No	No	No
1972	5 ELLIOT CLOSE DARLINGTON	Residential	55	50	41.8	38.7	48.3	46.5	6.5	7.8	No	No	No	No
1973	26 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.9	38.8	46.6	44.8	4.7	6.0	No	No	No	No
1974	9 ELLIOT CLOSE DARLINGTON	Residential	55	50	45.6	42.2	51.8	50.1	6.2	7.9	No	No	No	No
1975	36 GRAINGER CRESCENT DARLINGTON	Residential	55	50	41.8	38.8	47.1	45.4	5.3	6.6	No	No	No	No
1976	24 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.6	38.4	46.9	45.1	5.3	6.7	No	No	No	No
1977	23 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.5	40.3	48.1	46.3	4.6	6.0	No	No	No	No
1978	10 ELLIOT CLOSE DARLINGTON	Residential	55	50	45.9	42.5	51.5	49.7	5.6	7.2	No	No	No	No
1979	4 ELLIOT CLOSE DARLINGTON	Residential	55	50	43.9	40.7	48.9	47.1	5.0	6.4	No	No	No	No
1980	34 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.8	45.9	48.0	46.0	-0.8	0.1	No	No	No	No
1981	32 GRAINGER CRESCENT DARLINGTON	Residential	55	50	49.9	47.1	49.1	47.2	-0.8	0.1	No	No	No	No
1982	11 ELLIOT CLOSE DARLINGTON	Residential	55	50	46.7	43.3	51.9	50.1	5.2	6.8	No	No	No	No
1983	3 ELLIOT CLOSE DARLINGTON	Residential	55	50	43.4	40.1	48.6	46.9	5.2	6.8	No	No	No	No
1984	22 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.8	38.8	47.1	45.4	5.3	6.6	No	No	No	No
1985	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.4	47.5	49.1	47.0	-1.3	-0.5	No	No	No	No
1986	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	47.6	44.7	47.7	45.8	0.1	1.1	No	No	No	No
1987	21 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.7	39.7	48.3	46.6	5.6	6.9	No	No	No	No
1988	12 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.4	43.9	52.0	50.3	4.6	6.4	No	No	Yes	Yes
1988	12 ELLIOT CLOSE DARLINGTON*	Residential	55	50	39.9	36.8	50.8	49.1	10.9	12.3				
1989	2 ELLIOT CLOSE DARLINGTON	Residential	55	50	44.6	41.3	49.0	47.2	4.4	5.9	No	No	No	No
1990	20 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.5	37.5	46.9	45.2	6.4	7.7	No	No	No	No
1991	28 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.7	47.8	49.6	47.6	-1.1	-0.2	No	No	No	No
1992	4 HALLETT PLACE DARLINGTON	Residential	55	50	41.6	38.5	47.1	45.3	5.5	6.8	No	No	No	No
1993	18 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.9	38.9	47.1	45.4	5.2	6.5	No	No	No	No
1994	3 HALLETT PLACE DARLINGTON	Residential	55	50	44.4	41.3	46.8	45.0	2.4	3.7	No	No	No	No
1995	13 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.8	44.3	51.7	49.9	3.9	5.6	No	No	No	No
1996	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.4	41.2	49.0	47.2	4.6	6.0	No	No	No	No
1997	5 HALLETT PLACE DARLINGTON	Residential	55	50	44.4	41.3	47.5	45.6	3.1	4.3	No	No	No	No
1998	19 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.7	40.7	48.1	46.3	4.4	5.6	No	No	No	No
1999	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.2	45.9	50.8	48.9	1.6	3.0	No	No	No	No
2000	2 HALLETT PLACE DARLINGTON	Residential	55	50	49.2	46.3	47.9	45.8	-1.3	-0.5	No	No	No	No
2001	17 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.1	40.1	48.0	46.2	4.9	6.1	No	No	No	No
2002	26 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.0	47.1	48.8	46.8	-1.2	-0.3	No	No	No	No
2003	14 ELLIOT CLOSE DARLINGTON	Residential	55	50	50.2	46.7	53.6	51.8	3.4	5.1	Yes	No	No	Yes
2004	15 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.5	39.5	47.7	45.9	5.2	6.4	No	No	No	No
2005	7 GRAINGER CRESCENT DARLINGTON	Residential	55	50	54.5	51.6	51.4	49.2	-3.1	-2.4	No	No	No	No
2006	6 HALLETT PLACE DARLINGTON	Residential	55	50	43.6	40.5	47.6	45.8	4.0	5.3	No	No	No	No
2007	15 ELLIOT CLOSE DARLINGTON	Residential	55	50	49.0	45.5	51.9	50.1	2.9	4.6	No	No	No	No
2008	7 HALLETT PLACE DARLINGTON	Residential	55	50	46.8	43.5	47.3	45.3	0.5	1.8	No	No	No	No
2009	24 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.6	45.7	48.1	46.2	-0.5	0.5	No	No	No	No
2010	17 HALLETT PLACE DARLINGTON	Residential	55	50	46.2	43.1	46.7	44.7	0.5	1.6	No	No	No	No
2011	13 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.0	41.0	48.2	46.3	4.2	5.3	No	No	No	No
2012	7 MILLARD CLOSE DARLINGTON	Residential	55	50	45.0	41.9	48.2	46.3	3.2	4.4	No	No	No	No
2013	14 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.7	45.2	51.5	49.7	2.8	4.5	No	No	No	No
2014	5 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.6	57.7	57.0	54.7	-3.6	-3.0	No	No	No	No
2015	11 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.1	41.1	48.1	46.3	4.0	5.2	No	No	No	No
2016	22 GRAINGER CRESCENT DARLINGTON	Residential	55	50	53.6	50.8	50.4	48.1	-3.2	-2.7	No	No	No	No
2017	8 HALLETT PLACE DARLINGTON	Residential	55	50	48.0	44.7	47.8	45.8	-0.2	1.1	No	No	No	No
2018	16 HALLETT PLACE DARLINGTON	Residential	55	50	46.9	43.6	47.4	45.5	0.5	1.9	No	No	No	No
2019	6 MILLARD CLOSE DARLINGTON	Residential	55	50	46.3	43.2	47.3	45.3	1.0	2.1	No	No	No	No
2020	8 MILLARD CLOSE DARLINGTON	Residential	55	50	44.4	41.3	48.1	46.3	3.7	5.0	No	No	No	No
2021	12 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.3	42.2	50.6	48.7	5.3	6.5	No	No	No	No
2022	9 HALLETT PLACE DARLINGTON	Residential	55	50	48.4	45.0	48.2	46.2	-0.2	1.2	No	No	No	No
2023	9 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.2	42.0	49.0	47.2	3.8	5.2	No	No	No	No
2024	15 HALLETT PLACE DARLINGTON	Residential	55	50	47.7	44.6	47.9	45.9	0.2	1.3	No	No	No	No
2025	20 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.3	53.4	52.7	50.4	-3.6	-3.0	No	No	No	No
2026	9 MILLARD CLOSE DARLINGTON	Residential	55	50	48.3	44.7	49.0	47.1	0.7	2.4	No	No	No	No
2028	5 MILLARD CLOSE DARLINGTON	Residential	55	50	47.2	43.9	48.3	46.4	1.1	2.5	No	No	No	No
2029	10 SIMPSON TERRACE DARLINGTON	Residential	55	50	47.7	44.4	51.3	49.4	3.6	5.0	No	No	No	No
2030	10 MILLARD CLOSE DARLINGTON	Residential	55	50	47.6	44.2	48.8	46.9	1.2	2.7	No	No	No	No
2031	10 HALLETT PLACE DARLINGTON	Residential	55	50	48.6	45.3	48.7	46.7	0.1	1.4	No	No	No	No
2032	7 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.1	44.7	49.7	47.8	1.6	3.1	No	No	No	No
2033	8 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.1	45.5	51.7	49.8	2.6	4.3	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2034	18 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.6	54.7	54.0	51.8	-3.6	-2.9	No	No	No	No
2035	14 HALLETT PLACE DARLINGTON	Residential	55	50	48.9	45.8	48.7	46.6	-0.2	0.8	No	No	No	No
2036	4 MILLARD CLOSE DARLINGTON	Residential	55	50	50.7	47.5	49.0	46.9	-1.7	-0.6	No	No	No	No
2037	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.9	46.5	50.0	48.1	0.1	1.6	No	No	No	No
2038	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.5	46.4	51.8	49.8	2.3	3.4	No	No	No	No
2039	11 MILLARD CLOSE DARLINGTON	Residential	55	50	48.3	45.1	49.0	47.1	0.7	2.0	No	No	No	No
2040	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.0	48.7	53.6	51.7	1.6	3.0	Yes	No	No	Yes
2041	13 HALLETT PLACE DARLINGTON	Residential	55	50	51.3	48.2	49.1	47.0	-2.2	-1.2	No	No	No	No
2042	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.2	48.8	53.7	51.8	1.5	3.0	Yes	No	No	Yes
2043	3 MILLARD CLOSE DARLINGTON	Residential	55	50	52.9	49.7	50.5	48.4	-2.4	-1.3	No	No	No	No
2044	11 HALLETT PLACE DARLINGTON	Residential	55	50	50.8	47.7	49.3	47.2	-1.5	-0.5	No	No	No	No
2045	16 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.2	55.3	54.6	52.4	-3.6	-2.9	No	No	No	No
2046	12 MILLARD CLOSE DARLINGTON	Residential	55	50	49.3	45.9	48.7	46.6	-0.6	0.7	No	No	No	No
2047	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.2	48.9	53.8	51.9	1.6	3.0	Yes	No	No	Yes
2048	12 HALLETT PLACE DARLINGTON	Residential	55	50	51.4	48.4	49.4	47.3	-2.0	-1.1	No	No	No	No
2049	2 MILLARD CLOSE DARLINGTON	Residential	55	50	53.6	50.4	51.1	49.0	-2.5	-1.4	No	No	No	No
2050	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	51.5	48.1	50.5	48.4	-1.0	0.3	No	No	No	No
2051	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.3	48.9	53.7	51.8	1.4	2.9	Yes	No	No	Yes
2052	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.7	46.6	51.4	49.3	1.7	2.7	No	No	No	No
2053	13 MILLARD CLOSE DARLINGTON	Residential	55	50	51.1	48.0	49.3	47.2	-1.8	-0.8	No	No	No	No
2054	6 SOLMAN LANE DARLINGTON	Residential	55	50	48.6	45.4	50.6	48.7	2.0	3.3	No	No	No	No
2055	14 GRAINGER CRESCENT DARLINGTON	Residential	55	50	59.6	56.7	55.9	53.7	-3.7	-3.0	No	No	No	No
2056	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.6	49.2	53.8	51.9	1.2	2.7	Yes	No	No	Yes
2058	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.5	49.1	53.7	51.8	1.2	2.7	Yes	No	No	Yes
2059	14 MILLARD CLOSE DARLINGTON	Residential	55	50	51.6	48.4	50.2	48.1	-1.4	-0.3	No	No	No	No
2060	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	52.4	49.1	51.1	49.0	-1.3	-0.1	No	No	No	No
2061	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.7	49.3	53.7	51.8	1.0	2.5	Yes	No	No	Yes
2062	8 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.2	54.2	53.9	51.8	-3.3	-2.4	No	No	No	No
2063	1 MILLARD CLOSE DARLINGTON	Residential	55	50	56.7	53.7	53.7	51.6	-3.0	-2.1	No	No	No	No
2064	4 SOLMAN LANE DARLINGTON	Residential	55	50	49.3	46.2	51.0	49.0	1.7	2.8	No	No	No	No
2065	12 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.3	57.3	56.6	54.4	-3.7	-2.9	No	No	No	No
2066	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.9	46.8	51.6	49.6	1.7	2.8	No	No	No	No
2067	10 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.9	55.9	55.5	53.3	-3.4	-2.6	No	No	No	No
2068	15 MILLARD CLOSE DARLINGTON	Residential	55	50	56.2	53.1	53.1	50.9	-3.1	-2.2	No	No	No	No
2069	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.3	53.2	53.1	51.0	-3.2	-2.2	No	No	No	No
2070	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.4	53.3	53.3	51.1	-3.1	-2.2	No	No	No	No
2071	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	61.8	59.0	58.3	56.0	-3.5	-3.0	No	No	No	No
2072	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.2	49.9	53.9	51.9	0.7	2.0	Yes	No	No	No
2073	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.9	53.9	54.0	51.9	-2.9	-2.0	No	No	No	No
2074	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.8	53.7	53.8	51.6	-3.0	-2.1	No	No	No	No
2075	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.7	53.7	53.6	51.5	-3.1	-2.2	No	No	No	No
2076	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.8	53.7	53.8	51.6	-3.0	-2.1	No	No	No	No
2077	4 ALLEN COURT DARLINGTON	Residential	55	50	53.1	49.9	51.9	49.8	-1.2	-0.1	No	No	No	No
2078	3 ALLEN COURT DARLINGTON	Residential	55	50	53.7	50.4	51.9	49.9	-1.8	-0.5	No	No	No	No
2081	5 ALLEN COURT DARLINGTON	Residential	55	50	51.5	48.5	51.5	49.4	0.0	0.9	No	No	No	No
2082	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	59.9	57.0	56.5	54.3	-3.4	-2.7	No	No	No	No
2083	6 ALLEN COURT DARLINGTON	Residential	55	50	54.5	51.4	53.2	51.1	-1.3	-0.3	Yes	No	No	No
2084	10 ALLEN COURT DARLINGTON	Residential	55	50	57.1	54.1	54.6	52.4	-2.5	-1.7	No	No	No	No
2085	11 ALLEN COURT DARLINGTON	Residential	55	50	58.3	55.3	55.4	53.2	-2.9	-2.1	No	No	No	No
2086	7 ALLEN COURT DARLINGTON	Residential	55	50	55.5	52.4	53.7	51.6	-1.8	-0.8	Yes	No	No	No
2087	2 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	67.3	64.6	63.6	61.3	-3.7	-3.3	No	No	No	No
2088	9B ALLEN COURT DARLINGTON	Residential	55	50	63.2	60.2	59.5	57.3	-3.7	-2.9	No	No	No	No
2089	4 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	66.6	63.8	62.9	60.6	-3.7	-3.2	No	No	No	No
2090	1 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	60.7	57.9	57.1	54.8	-3.6	-3.1	No	No	No	No
2091	9 ALLEN COURT DARLINGTON	Residential	55	50	63.6	60.6	59.8	57.6	-3.8	-3	No	No	No	No
2092	8 ALLEN COURT DARLINGTON	Residential	55	50	62.3	59.3	58.6	56.4	-3.7	-2.9	No	No	No	No
2093	6 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	63.5	60.6	59.8	57.5	-3.7	-3.1	No	No	No	No
2094	3 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.2	55.4	54.7	52.5	-3.5	-2.9	No	No	No	No
2095	110 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	52.8	49.8	50.4	48.2	-2.4	-1.6	No	No	No	No
2096	108 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.8	50.3	48.2	-2.4	-1.6	No	No	No	No
2097	5 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	55.3	52.4	52.2	50.0	-3.1	-2.4	No	No	No	No
2098	8 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.6	58.7	58.0	55.8	-3.6	-2.9	No	No	No	No
2100	112 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.4	50.8	48.6	-2.5	-1.8	No	No	No	No
2101	114 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.4	50.7	48.5	-2.6	-1.9	No	No	No	No
2102	12 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.3	59.4	58.7	56.4	-3.6	-3.0	No	No	No	No
2103	10 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.5	59.6	58.9	56.6	-3.6	-3.0	No	No	No	No
2104	14 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.6	59.8	59.1	56.8	-3.5	-3.0	No	No	No	No
2105	7-9 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.0	50.1	50.4	48.2	-2.6	-1.9	No	No	No	No
2106	116 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.3	50.7	48.5	-2.6	-1.8	No	No	No	No
2107	18 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.2	59.4	58.7	56.5	-3.5	-2.9	No	No	No	No
2108	16 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.1	58.4	56.2	-3.5	-2.9	No	No	No	No
2109	20 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.0	58.4	56.1	-3.5	-2.9	No	No	No	No
2110	118 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.0	50.0	50.4	48.2	-2.6	-1.8	No	No	No	No
2111	22 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.1	58.4	56.2	-3.5	-2.9	No	No	No	No
2112	120 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.8	50.2	48.0	-2.5	-1.8	No	No	No	No
2113	26 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.7	58.8	58.2	55.9	-3.5	-2.9	No	No	No	No
2114	24 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.4	58.6	58.0	55.7	-3.4	-2.9	No	No	No	No
2115	13 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.2	49.3	49.9	47.7	-2.3	-1.6	No	No	No	No
2116	11 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.9	50.0	50.3	48.1	-2.6	-1.9	No	No	No	No
2118	71 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.7	48.1	45.9	-1.6	-0.8	No	No	No	No
2119	69 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.8	46.8	48.2	46.1	-1.6	-0.7	No	No	No	No
2120	15 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.7	49.4	47.2	-2.2	-1.5	No	No	No	No
2121	30 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.0	58.1	57.6	55.3	-3.4	-2.8	No	No	No	No
2122	28 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	60.3	57.4	56.9	54.6	-3.4	-2.8	No	No	No	No
2124	17 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.7	49.6	47.4	-2.0	-1.3	No	No	No	No
2128	73 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.3	47.5	45.3	-1.8	-1.0	No	No	No	No
2129	19 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.1	50.1	47.9	-2.0	-1.2	No	No	No	No
2131	34 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	56.9	54.0	54.1	51.9	-2.8	-2.1	No	No	No	No
2132	21 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.2	50.2	48.0	-1.9	-1.2	No	No	No	No
2133	75 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.9	47.4	45.2	-1.5	-0.7	No	No	No	No
2135	36 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.1	55.3	55.3	53.1	-2.8	-2.2	No	No	No	No
2136	40 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	59.4	56.5	56.5	54.4	-2.9	-2.1	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2137	38 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.4	55.6	55.6	53.4	-2.8	-2.2	No	No	No	No
2138	23 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.5	49.5	50.4	48.2	-2.1	-1.3	No	No	No	No
2141	44 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.6	55.7	56.1	53.9	-2.5	-1.8	No	No	No	No
2142	25 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.8	50.7	48.5	-2.0	-1.3	No	No	No	No
2143	42 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	57.2	54.3	54.9	52.7	-2.3	-1.6	Yes	No	No	No
2144	77 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	45.3	47.0	44.9	-1.3	-0.4	No	No	No	No
2145	46 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.3	55.4	56.1	53.9	-2.2	-1.5	Yes	No	No	No
2146	27 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.7	50.8	51.6	49.5	-2.1	-1.3	No	No	No	No
2147	79 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	45.1	47.1	45.0	-1.1	-0.1	No	No	No	No
2148	2 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	47.9	45.7	-0.8	0.2	No	No	No	No
2149	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	54.4	51.5	52.2	50.1	-2.2	-1.4	No	No	No	No
2150	2 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	55.6	52.7	54.7	52.6	-0.9	-0.1	Yes	No	No	No
2151	2 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	46.4	47.8	45.6	-1.6	-0.8	No	No	No	No
2152	4 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	52.2	48.9	53.6	51.5	1.4	2.6	Yes	No	No	Yes
2153	81 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.9	46.9	44.8	-1.0	-0.1	No	No	No	No
2154	4 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	48.0	45.9	-0.8	0.4	No	No	No	No
2155	31 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.6	49.9	47.8	-0.7	0.2	No	No	No	No
2156	33 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.6	50.2	48.1	-0.4	0.5	No	No	No	No
2157	5 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.6	47.3	45.2	-1.3	-0.4	No	No	No	No
2158	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.4	52.3	50.2	1.6	2.8	No	No	No	No
2159	35 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.6	51.1	49.0	-0.5	0.4	No	No	No	No
2160	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.4	49.2	51.2	49.1	-1.2	-0.1	No	No	No	No
2161	1 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.5	50.4	48.3	-1.2	-0.2	No	No	No	No
2162	6 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.1	51.8	49.8	1.1	2.7	No	No	No	No
2163	1 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	46.2	47.6	45.5	-1.5	-0.7	No	No	No	No
2164	4 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	45.0	47.5	45.4	-0.7	0.4	No	No	No	No
2165	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.1	52.3	50.2	1.8	3.1	No	No	No	No
2166	6 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.2	47.6	45.5	-0.8	0.3	No	No	No	No
2167	8 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.8	46.6	52.0	49.9	2.2	3.3	No	No	No	No
2168	2 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.4	48.0	50.7	48.6	-0.7	0.6	No	No	No	No
2169	3 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.2	49.4	47.3	-0.9	0.1	No	No	No	No
2170	1 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.6	51.0	49.0	1.0	2.4	No	No	No	No
2171	7 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.5	47.1	45.0	-0.5	0.5	No	No	No	No
2172	9 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.6	45.3	47.3	45.2	-1.3	-0.1	No	No	No	No
2173	6 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.9	47.5	45.4	-0.7	0.5	No	No	No	No
2174	10 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.9	52.2	50.1	1.9	3.2	No	No	No	No
2175	38 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	59.3	55.8	58.5	54.9	-0.8	-0.9	Yes	Yes	No	Yes
2176	5 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	47.0	49.3	47.2	-0.9	0.2	No	No	No	No
2177	3 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.8	52.4	50.3	2.1	3.5	No	No	No	No
2178	9 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	47.9	45.8	-0.8	0.3	No	No	No	No
2179	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	45.1	47.9	45.8	-0.3	0.7	No	No	No	No
2180	16 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.8	48.6	51.2	49.1	-0.6	0.5	No	No	No	No
2181	3 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.3	46.7	44.6	-0.8	0.3	No	No	No	No
2182	7 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.0	48.0	50.7	48.5	-0.3	0.5	No	No	No	No
2183	4 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.8	48.5	51	48.9	-0.8	0.4	No	No	No	No
2186	12 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	48.0	52.6	50.6	1.5	2.6	Yes	No	No	Yes
2188	5 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.3	48.0	51.0	48.9	-0.3	0.9	No	No	No	No
2189	7 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.1	44.8	47.3	45.2	-0.8	0.4	No	No	No	No
2192	14 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.1	52.6	50.5	1.9	3.4	Yes	No	No	Yes
2194	6 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.5	48.2	50.8	48.7	-0.7	0.5	No	No	No	No
2195	14 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.1	48.1	50.0	47.8	-1.1	-0.3	No	No	No	No
2196	5 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.7	52.1	50.0	1.9	3.3	No	No	No	No
2197	8 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	47.9	45.8	-0.8	0.4	No	No	No	No
2198	11 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	48.2	46.1	-0.6	0.6	No	No	No	No
2202	7 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.6	49.0	46.9	-0.9	0.3	No	No	No	No
2203	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.9	47.7	45.6	-0.5	0.7	No	No	No	No
2205	5 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	44.1	46.7	44.6	-0.6	0.5	No	No	No	No
2206	3 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.2	46.9	50.6	48.5	0.4	1.6	No	No	No	No
2207	12 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.4	46.9	50.4	48.3	0.0	1.4	No	No	No	No
2208	9 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.7	49.2	47.1	-0.8	0.4	No	No	No	No
2210	16 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.0	52.6	50.6	2.1	3.6	Yes	No	No	Yes
2211	7 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.1	52.0	49.9	1.5	2.8	No	No	No	No
2212	8 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.8	50.7	48.6	-0.5	0.8	No	No	No	No
2213	10 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.9	45.6	48.0	45.9	-0.9	0.3	No	No	No	No
2214	10 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	48.0	45.9	-0.7	0.5	No	No	No	No
2215	13 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.7	48.2	46.2	-0.9	0.5	No	No	No	No
2216	5 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.4	44.2	46.9	44.8	-0.5	0.6	No	No	No	No
2217	18 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.4	46.8	52.6	50.5	2.2	3.7	Yes	No	No	Yes
2218	1 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.8	46.4	50.4	48.3	0.6	1.9	No	No	No	No
2219	10 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.6	47.1	50.5	48.5	-0.1	1.4	No	No	No	No
2220	7 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.9	46.7	44.6	-0.4	0.7	No	No	No	No
2222	11 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.6	49.1	47.0	-0.8	0.4	No	No	No	No
2223	15 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	48.0	46.0	-0.8	0.5	No	No	No	No
2224	14 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.3	47.1	45.0	-0.4	0.7	No	No	No	No
2225	10 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.3	51.0	48.9	-0.6	0.6	No	No	No	No
2226	12 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.1	47.8	45.7	-0.6	0.6	No	No	No	No
2227	9 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.8	51.8	49.7	1.5	2.9	No	No	No	No
2228	3 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.1	43.9	46.6	44.5	-0.5	0.6	No	No	No	No
2230	20 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.5	52.0	49.9	1.9	3.4	No	No	No	No
2231	13 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.3	49.1	47.0	-0.6	0.7	No	No	No	No
2232	8 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.4	46.9	50.2	48.2	-0.2	1.3	No	No	No	No
2233	9 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.6	46.6	44.5	-0.3	0.9	No	No	No	No
2234	8 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	48.1	46.0	-0.6	0.6	No	No	No	No
2236	12 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.5	48.1	51.0	49.0	-0.5	0.9	No	No	No	No
2237	14 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.7	47.5	45.4	-0.4	0.7	No	No	No	No
2238	19 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.8	47.9	45.8	-0.4	1.0	No	No	No	No
2239	6 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.3	45.0	47.8	45.7	-0.5	0.7	No	No	No	No
2240	22 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.4	52.3	50.2	2.3	3.8	No	No	No	No
2241	17 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	44.2	46.6	44.5	-0.6	0.3	No	No	No	No
2242	15 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.4	49.1	47.0	-0.6	0.6	No	No	No	No
2243	6 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.7	46.4	49.8	47.7	0.1	1.3	No	No	No	No
2244	1 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.8	43.4	46.3	44.3	-0.5	0.9	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2245	11 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.2	46.4	44.3	-0.1	1.1	No	No	No	No
2246	14 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.8	50.7	48.7	-0.5	0.9	No	No	No	No
2247	16 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	47.6	45.6	-0.5	1.0	No	No	No	No
2248	4 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.6	46.3	49.8	47.7	0.2	1.4	No	No	No	No
2249	17 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	48.6	51.1	49.0	-0.9	0.4	No	No	No	No
2250	4 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.9	44.7	47.7	45.6	-0.2	0.9	No	No	No	No
2251	24 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.0	51.8	49.7	2.1	3.7	No	No	No	No
2252	16 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	47.7	50.7	48.6	-0.4	0.9	No	No	No	No
2253	2 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.4	46.2	49.9	47.8	0.5	1.6	No	No	No	No
2254	11 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.3	51.5	49.5	1.5	3.2	No	No	No	No
2255	18 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	47.5	45.4	-0.7	0.7	No	No	No	No
2256	1 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	42.0	44.4	42.2	-0.6	0.2	No	No	No	No
2257	11 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.6	46.1	44.1	-0.8	0.5	No	No	No	No
2258	13 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.1	46.4	44.3	0.0	1.2	No	No	No	No
2259	3 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	42.3	45.1	43.1	-0.2	0.8	No	No	No	No
2260	5 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.7	45.0	42.8	-0.7	0.1	No	No	No	No
2261	26 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	45.9	51.7	49.6	2.1	3.7	No	No	No	No
2262	19 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	46.0	49.0	46.9	-0.4	0.9	No	No	No	No
2263	20 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.8	47.2	45.1	-0.2	1.3	No	No	No	No
2264	18 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.2	48.9	51.8	49.7	-0.4	0.8	No	No	No	No
2265	2 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.4	47.3	45.3	-0.5	0.9	No	No	No	No
2266	13 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.7	50.9	48.8	1.5	3.1	No	No	No	No
2267	20 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.9	47.5	45.4	-0.8	0.5	No	No	No	No
2268	18 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.8	46.4	44.3	-0.1	1.5	No	No	No	No
2269	21 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.5	45.9	49.2	47.1	-0.3	1.2	No	No	No	No
2270	20 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.1	50.4	48.4	0.1	1.3	No	No	No	No
2271	28 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	45.2	51.2	49.1	2.2	3.9	No	No	No	No
2272	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.2	50.8	48.8	0.1	1.6	No	No	No	No
2273	23 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.2	49.3	47.2	-0.4	1.0	No	No	No	No
2274	22 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.5	47.4	45.3	-0.4	0.8	No	No	No	No
2275	15 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.4	50.2	48.1	1.0	2.7	No	No	No	No
2276	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.3	50.1	48.1	0.4	1.8	No	No	No	No
2277	22 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	47.8	45.7	-0.4	1.0	No	No	No	No
2278	21 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	45.1	48.1	46.0	-0.4	0.9	No	No	No	No
2279	1 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	66.0	62.4	62.3	60.5	-3.7	-1.9	No	No	No	No
2280	30 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.8	51.5	49.4	1.8	3.6	No	No	No	No
2281	24 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.3	47.4	45.4	-0.3	1.1	No	No	No	No
2282	23 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.5	46.4	44.3	0.0	0.8	No	No	No	No
2283	25 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.9	49.1	47.1	-0.3	1.2	No	No	No	No
2284	15 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.6	46.5	44.4	-0.5	0.8	No	No	No	No
2285	2 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	42.4	45.2	43.2	-0.2	0.8	No	No	No	No
2286	24 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.8	48.1	46.0	-0.2	1.2	No	No	No	No
2287	24 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.5	49.6	47.6	-0.4	1.1	No	No	No	No
2288	4 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.7	45.4	43.3	-0.4	0.6	No	No	No	No
2289	6 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	43.2	45.8	43.7	-0.4	0.5	No	No	No	No
2290	8 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	43.2	45.9	43.8	-0.4	0.6	No	No	No	No
2291	10 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.5	46.0	43.9	-0.5	0.4	No	No	No	No
2292	12 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	43.3	45.8	43.7	-0.5	0.4	No	No	No	No
2293	25 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	47.8	45.7	-0.4	1.0	No	No	No	No
2294	26 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.5	47.7	45.6	-0.3	1.1	No	No	No	No
2295	17 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.8	46.9	44.8	-0.2	1.0	No	No	No	No
2296	33 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.4	45.7	43.6	-0.7	0.2	No	No	No	No
2297	26 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.4	46.8	50.6	48.5	0.2	1.7	No	No	No	No
2298	27 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.7	49.1	47.0	-0.1	1.3	No	No	No	No
2299	32 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.3	51.1	49.0	1.9	3.7	No	No	No	No
2300	26 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	45.0	48.3	46.2	-0.2	1.2	No	No	No	No
2301	28 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.2	47.1	45.0	-0.5	0.8	No	No	No	No
2302	31 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.8	45.5	43.3	-0.9	0.5	No	No	No	No
2303	3 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	58.5	54.5	55.5	53.6	-3.0	-0.9	No	No	No	No
2304	28 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.0	50.9	48.9	0.3	1.9	No	No	No	No
2305	27 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	47.8	45.7	-0.3	1.1	No	No	No	No
2306	29 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	45.7	49.6	47.6	0.3	1.9	No	No	No	No
2307	5 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.9	51.9	54.1	51.9	-1.8	0.0	Yes	No	No	No
2309	19 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.7	46.7	44.7	-0.4	1.0	No	No	No	No
2310	28 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.9	48.4	46.3	-0.1	1.4	No	No	No	No
2311	30 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.0	47.1	44.9	-0.4	0.9	No	No	No	No
2312	29 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.1	45.7	43.6	-0.8	0.5	No	No	No	No
2313	30 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.6	50.6	48.6	0.5	2.0	No	No	No	No
2314	31 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.5	45.9	49.6	47.6	0.1	1.7	No	No	No	No
2315	21 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.6	46.9	44.8	-0.2	1.2	No	No	No	No
2316	25 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.8	45.5	43.4	-0.5	0.6	No	No	No	No
2317	32 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.1	51.2	49.2	0.5	2.1	No	No	No	No
2319	32 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	43.2	46.2	44.1	-0.1	0.9	No	No	No	No
2320	29 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	47.8	45.8	-0.3	1.2	No	No	No	No
2321	30 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.9	48.5	46.4	0.1	1.5	No	No	No	No
2322	21 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	42.3	45.2	43.0	-0.3	0.7	No	No	No	No
2323	27 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.0	45.6	43.5	-0.8	0.5	No	No	No	No
2324	19 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.2	46.4	44.3	-0.3	1.1	No	No	No	No
2325	23 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.9	44.7	42.5	-0.4	0.6	No	No	No	No
2326	31 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.5	47.8	45.7	-0.1	1.2	No	No	No	No
2327	33 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.0	49.6	47.6	-0.1	1.6	No	No	No	No
2328	34 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.3	52.0	49.9	1.1	2.6	No	No	No	No
2329	23 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	46.8	44.7	-0.4	1.0	No	No	No	No
2331	32 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.9	48.6	46.5	0.1	1.6	No	No	No	No
2333	35 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	46.0	49.8	47.8	0.2	1.8	No	No	No	No
2334	17 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	43.4	46.1	43.9	-0.5	0.5	No	No	No	No
2335	33 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	47.4	45.3	0.2	1.6	No	No	No	No
2336	34 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	45.6	43.4	-0.4	0.9	No	No	No	No
2337	52 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.3	46.1	44.0	-0.7	0.7	No	No	No	No
2338	36 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.0	50.3	48.2	1.4	3.2	No	No	No	No
2339	37 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.9	49.4	47.3	0.0	1.4	No	No	No	No
2340	34 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.3	48.0	45.9	0.0	1.6	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2341	15 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	42.0	45.6	43.4	0.4	1.4	No	No	No	No
2342	50 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	43.0	45.6	43.5	-0.8	0.5	No	No	No	No
2344	39 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.6	49.6	47.5	0.5	1.9	No	No	No	No
2345	13 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.4	46.7	44.6	0.0	1.2	No	No	No	No
2346	41 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.4	45.6	50.3	48.2	0.9	2.6	No	No	No	No
2347	35 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.8	46.8	44.7	0.4	1.9	No	No	No	No
2348	48 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.8	45.6	43.5	-0.7	0.7	No	No	No	No
2349	38 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.2	50.4	48.3	1.3	3.1	No	No	No	No
2351	46 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	42.1	44.9	42.8	-0.5	0.7	No	No	No	No
2352	36 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.9	46.5	44.4	0.3	1.5	No	No	No	No
2353	17 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.3	49.0	46.9	0.9	2.6	No	No	No	No
2354	9 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.7	48.2	46.2	-0.1	1.5	No	No	No	No
2355	34 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.4	46.4	44.3	-0.5	0.9	No	No	No	No
2356	36 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.3	46.2	44.1	-0.5	0.8	No	No	No	No
2357	38 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.9	45.7	43.6	-0.5	0.7	No	No	No	No
2358	40 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	43.8	40.2	45.5	43.4	1.7	3.2	No	No	No	No
2359	11 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.1	47.8	45.7	0.3	1.6	No	No	No	No
2360	40 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.8	50.1	48.0	1.4	3.2	No	No	No	No
2361	32 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.1	45.9	43.8	-0.6	0.7	No	No	No	No
2362	42 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.2	40.6	46.0	43.9	1.8	3.3	No	No	No	No
2363	2 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	66.9	62.4	63.0	61.1	-3.9	-1.3	No	No	No	No
2364	30 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.4	46.4	44.3	-0.4	0.9	No	No	No	No
2365	44 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.0	40.2	44.9	42.8	0.9	2.6	No	No	No	No
2366	7 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.0	48.7	46.6	0.1	1.6	No	No	No	No
2367	19 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.3	48.9	46.9	0.7	2.6	No	No	No	No
2368	5 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.0	48.6	46.5	0.0	1.5	No	No	No	No
2369	28 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.6	46.6	44.5	-0.5	0.9	No	No	No	No
2371	3 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.7	48.5	46.4	0.3	1.7	No	No	No	No
2372	26 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.7	46.7	44.7	-0.4	1.0	No	No	No	No
2373	42 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.6	49.9	47.8	1.4	3.2	No	No	No	No
2374	22 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47	43.5	46.8	44.7	-0.2	1.2	No	No	No	No
2375	24 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	43.1	46.3	44.2	-0.3	1.1	No	No	No	No
2376	1 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.5	48.9	46.8	0.6	2.3	No	No	No	No
2377	44 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.1	49.4	47.3	1.2	3.2	No	No	No	No
2378	20 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.5	46.7	44.6	-0.4	1.1	No	No	No	No
2380	18 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	46.9	44.8	-0.4	1.0	No	No	No	No
2381	16 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.0	47.4	45.3	-0.2	1.3	No	No	No	No
2383	12 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.9	47.3	45.3	-0.2	1.4	No	No	No	No
2384	14 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.5	46.9	44.8	0.0	1.3	No	No	No	No
2385	46 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.2	49.5	47.4	1.4	3.2	No	No	No	No
2386	10 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	47.1	45.0	-0.2	1.2	No	No	No	No
2387	8 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.1	47.6	45.5	-0.1	1.4	No	No	No	No
2388	48 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	43.9	49.5	47.4	1.6	3.5	No	No	No	No
2389	6 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.2	47.8	45.7	0.1	1.5	No	No	No	No
2390	4 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.2	48.3	46.2	0.3	2.0	No	No	No	No
2391	2 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.7	48.6	46.5	0.2	1.8	No	No	No	No
2392	50 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.7	49.0	46.9	1.4	3.2	No	No	No	No
2393	21 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.7	48.7	46.7	0.3	2.0	No	No	No	No
2394	12 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	56.6	52.3	53.8	51.7	-2.8	-0.6	No	No	No	No
2395	4 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	62.7	58.1	59.1	57.2	-3.6	-0.9	No	No	No	No
2396	52 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.5	48.8	46.7	1.4	3.2	No	No	No	No
2399	54 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.0	48.4	46.2	1.4	3.2	No	No	No	No
2401	56 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47	43	48.3	46.2	1.3	3.2	No	No	No	No
2403	58 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.8	48.2	46.1	1.5	3.3	No	No	No	No
2405	11 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.4	50.2	52.3	50.3	-2.1	0.1	No	No	No	No
2407	60 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	47.8	45.7	1.4	3.2	No	No	No	No
2408	99 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	45.7	43.7	-0.1	1.4	No	No	No	No
2409	62 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.8	47.1	45.0	1.3	3.2	No	No	No	No
2412	10 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	62.6	58.0	59.0	57.1	-3.6	-0.9	No	No	No	No
2413	64 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	41.8	46.9	44.8	1.2	3.0	No	No	No	No
2414	2 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.4	46.6	44.4	1.2	3.0	No	No	No	No
2415	92 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	45.2	43.1	-0.1	1.4	No	No	No	No
2416	86 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	41	44.7	42.6	0.2	1.6	No	No	No	No
2417	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	44.9	42.8	0.2	1.8	No	No	No	No
2418	1 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	47.1	45.0	0.8	2.3	No	No	No	No
2419	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.7	45.2	43.2	0.0	1.5	No	No	No	No
2420	88 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	43.9	41.8	-0.2	1.2	No	No	No	No
2421	90 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.2	40.7	44.0	42.0	-0.2	1.3	No	No	No	No
2422	4 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.6	46.7	44.6	1.3	3.0	No	No	No	No
2423	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.6	45.6	43.6	0.3	2.0	No	No	No	No
2425	80 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	45.6	43.5	0.3	1.7	No	No	No	No
2426	78 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.8	45.7	43.6	0.3	1.8	No	No	No	No
2427	66 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	42.0	46.4	44.3	0.9	2.3	No	No	No	No
2429	76 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	46.0	43.9	0.7	2.2	No	No	No	No
2430	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.9	44.4	42.3	0.0	1.4	No	No	No	No
2431	74 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	46.0	43.9	0.5	2.0	No	No	No	No
2432	70 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	45.8	43.7	0.5	2.0	No	No	No	No
2433	68 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.7	45.9	43.8	0.7	2.1	No	No	No	No
2434	28 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	45.0	42.9	0.1	1.6	No	No	No	No
2435	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	43.8	40.1	43.6	41.5	-0.2	1.4	No	No	No	No
2436	6 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	46.5	44.4	1.5	3.2	No	No	No	No
2437	3 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	46.8	44.7	1.2	2.8	No	No	No	No
2438	72 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.6	45.6	43.5	0.5	1.9	No	No	No	No
2439	4 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.1	40.4	43.7	41.6	-0.4	1.2	No	No	No	No
2440	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	45.2	43.1	0.3	1.9	No	No	No	No
2443	9 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	56.7	52.3	54.2	52.2	-2.5	-0.1	No	No	No	No
2444	8 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.0	46.3	44.2	1.5	3.2	No	No	No	No
2445	6 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	43.6	40.1	43.8	41.7	0.2	1.6	No	No	No	No
2447	26 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.5	45.0	43.0	0.0	1.5	No	No	No	No
2448	15 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.6	40.9	44.5	42.4	-0.1	1.5	No	No	No	No
2449	13 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	45.0	42.9	0.0	1.5	No	No	No	No
2450	5 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	41.8	46.6	44.5	1.1	2.7	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2451	8 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	43.8	40.0	43.6	41.5	-0.2	1.5	No	No	No	No
2452	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	45.0	42.9	-0.1	1.4	No	No	No	No
2453	11 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.2	45.3	43.2	0.6	2.0	No	No	No	No
2454	9 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	40.9	45.3	43.2	0.8	2.3	No	No	No	No
2455	5 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	40.7	45.1	43.0	0.6	2.3	No	No	No	No
2456	7 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.7	45.0	42.9	0.6	2.2	No	No	No	No
2457	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.8	41.3	44.7	42.6	-0.1	1.3	No	No	No	No
2458	10 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.5	40.7	46.0	43.9	1.5	3.2	No	No	No	No
2459	7 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.2	41.5	46.5	44.4	1.3	2.9	No	No	No	No
2460	20 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	44.5	42.4	0.3	1.9	No	No	No	No
2461	1 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	46.3	44.2	1.2	2.7	No	No	No	No
2462	3 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	45.3	43.2	0.6	2.2	No	No	No	No
2463	18 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	41.0	44.7	42.6	0.2	1.6	No	No	No	No
2464	14 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	44.4	42.3	0.3	1.7	No	No	No	No
2465	2 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.3	44.9	42.8	0.2	1.5	No	No	No	No
2466	11 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.6	44.7	42.6	0.5	2.0	No	No	No	No
2467	1 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	45.4	43.3	0.5	2.1	No	No	No	No
2468	3 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	45.3	43.2	0.0	1.5	No	No	No	No
2469	1 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.0	40.5	44.1	42.0	0.1	1.5	No	No	No	No
2470	10 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.0	40.4	44.5	42.4	0.5	2.0	No	No	No	No
2471	2 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	42.9	39.2	43.5	41.3	0.6	2.1	No	No	No	No
2472	16 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.8	41.1	44.6	42.5	-0.2	1.4	No	No	No	No
2473	26 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.4	45.5	43.4	0.4	2.0	No	No	No	No
2474	2 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	45.5	43.4	0.5	2.0	No	No	No	No
2475	14 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	46.1	44.0	1.1	2.6	No	No	No	No
2476	3 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	45.9	43.8	0.6	2.3	No	No	No	No
2477	5 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.6	45.6	43.5	0.3	1.9	No	No	No	No
2478	2 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.4	45.5	43.4	1.3	3.0	No	No	No	No
2479	9 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	46.5	44.4	1.2	2.6	No	No	No	No
2480	3 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.7	44.9	42.8	0.6	2.1	No	No	No	No
2481	9 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	40.9	44.9	42.8	0.3	1.9	No	No	No	No
2482	4 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.2	41.6	45.2	43.2	0.0	1.6	No	No	No	No
2483	4 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.6	45.0	42.9	0.6	2.3	No	No	No	No
2484	24 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.4	40.8	45.3	43.2	0.9	2.4	No	No	No	No
2485	16 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.1	40.4	45.9	43.8	1.8	3.4	No	No	No	No
2486	4 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	45.1	43.0	0.2	1.8	No	No	No	No
2487	4 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	40.9	45.7	43.6	1.1	2.7	No	No	No	No
2488	5 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.0	40.5	44.0	41.8	0.0	1.3	No	No	No	No
2489	7 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.4	41.0	44.6	42.6	0.2	1.6	No	No	No	No
2490	8 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	45.7	43.6	0.4	1.8	No	No	No	No
2491	11 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.2	41.6	46.6	44.4	1.4	2.8	No	No	No	No
2492	7 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.1	46.4	44.3	0.7	2.2	No	No	No	No
2493	18 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.8	40.1	45.6	43.4	1.8	3.3	No	No	No	No
2494	6 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.6	45.1	43.0	0.7	2.4	No	No	No	No
2495	17 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	45.7	43.7	-0.1	1.4	No	No	No	No
2496	6 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.9	44.5	42.4	0.2	1.5	No	No	No	No
2497	7 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.4	42.8	46.5	44.5	0.1	1.7	No	No	No	No
2498	5 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.6	43.0	46.6	44.6	0.0	1.6	No	No	No	No
2499	22 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.4	45.9	43.8	0.8	2.4	No	No	No	No
2500	6 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.5	45.2	43.1	0.9	2.6	No	No	No	No
2501	9 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	46.4	44.4	0.5	2.1	No	No	No	No
2502	20 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	42.5	38.7	42.4	40.3	-0.1	1.6	No	No	No	No
2503	8 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	41.0	45.3	43.2	0.8	2.2	No	No	No	No
2504	13 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.3	46.5	44.4	1.5	3.1	No	No	No	No
2505	6 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	42.2	45.8	43.7	0.2	1.5	No	No	No	No
2506	20 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	46.3	44.2	0.9	2.5	No	No	No	No
2507	19 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	44.9	42.8	0.0	1.5	No	No	No	No
2508	45 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	42.7	39.1	42.9	40.8	0.2	1.7	No	No	No	No
2509	8 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	45.3	43.2	1.1	2.7	No	No	No	No
2510	43 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	45.1	43.1	0.0	1.6	No	No	No	No
2511	11 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.5	46.8	44.8	0.6	2.3	No	No	No	No
2513	18 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.5	40.7	45.0	42.9	0.5	2.2	No	No	No	No
2514	10 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.4	45.5	43.5	0.6	2.1	No	No	No	No
2515	15 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.0	46.3	44.2	1.5	3.2	No	No	No	No
2516	41 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	45.1	43.1	-0.2	1.3	No	No	No	No
2517	13 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	46.7	44.7	0.4	2.2	No	No	No	No
2518	10 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.8	45.8	43.7	1.5	2.9	No	No	No	No
2519	24 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	46.0	43.8	1.8	3.3	No	No	No	No
2520	39 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	46.0	43.9	0.0	1.4	No	No	No	No
2521	21 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	45.2	43.1	-0.1	1.4	No	No	No	No
2522	37 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.9	41.0	45.8	43.6	1.9	2.6	No	No	No	No
2524	23 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.7	41.4	45.5	43.4	0.8	2.0	No	No	No	No
2525	15 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.4	46.7	44.6	0.6	2.2	No	No	No	No
2526	16 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	41.8	46.4	44.3	1.0	2.5	No	No	No	No
2527	12 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.2	45.7	43.6	0.6	2.4	No	No	No	No
2528	17 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	46.5	44.4	1.6	3.3	No	No	No	No
2529	35 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	42.2	46.0	44.0	0.3	1.8	No	No	No	No
2530	12 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.0	46.3	44.2	0.5	2.2	No	No	No	No
2531	26 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.5	40.8	46.2	44.1	1.7	3.3	No	No	No	No
2532	56 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	46.0	43.8	0.9	2.3	No	No	No	No
2533	17 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.9	47.2	45.1	0.7	2.2	No	No	No	No
2534	14 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	45.6	43.6	1.0	2.5	No	No	No	No
2535	28 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.8	44.7	1.9	3.5	No	No	No	No
2536	19 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.1	46.2	44.1	1.4	3.0	No	No	No	No
2537	58 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	42.4	39.3	44.1	41.9	1.7	2.6	No	No	No	No
2538	60 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.7	39.9	42.7	40.6	-1.0	0.7	No	No	No	No
2539	24 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.3	37.8	42.5	40.3	1.2	2.5	No	No	No	No
2540	14 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	46.7	44.6	0.4	2.1	No	No	No	No
2541	16 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.4	46.9	44.8	1.1	2.4	No	No	No	No
2542	21 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	41.9	47.4	45.3	1.7	3.4	No	No	No	No
2543	54 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.7	41.3	46.1	43.9	1.4	2.6	No	No	No	No
2544	31 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.1	42.4	46.3	44.3	0.2	1.9	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2545	23 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.7	40.9	46.1	43.9	1.4	3.0	No	No	No	No
2546	30 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.2	41.6	47.5	45.4	2.3	3.8	No	No	No	No
2547	50 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.1	42.1	45.7	43.6	-0.4	1.5	No	No	No	No
2548	52 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	41.7	45.2	43.1	-0.5	1.4	No	No	No	No
2549	33 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	46.3	44.3	0.5	2.1	No	No	No	No
2550	6 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	57.7	53.3	55.5	53.5	-2.2	0.2	No	No	No	No
2551	29 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	46.2	44.2	0.4	2.0	No	No	No	No
2552	25 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	41.9	47.4	45.3	1.6	3.4	No	No	No	No
2553	32 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	42.0	48.4	46.3	2.9	4.3	No	No	No	No
2554	46 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.0	45.9	43.8	0.1	1.8	No	No	No	No
2555	48 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.9	42.0	45.7	43.6	-0.2	1.6	No	No	No	No
2556	27 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	41.4	46.3	44.2	0.7	2.8	No	No	No	No
2557	26 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.3	39.7	43.9	41.7	0.6	2.0	No	No	No	No
2558	44 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.2	40.9	45.9	43.8	1.7	2.9	No	No	No	No
2559	42 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.7	41.9	45.7	43.6	0.0	1.7	No	No	No	No
2560	34 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	39.7	43.2	47.3	45.1	7.6	1.9	No	No	No	No
2561	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.0	40.0	44.1	42.0	0.1	2.0	No	No	No	No
2562	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.2	44.4	42.3	0.1	2.1	No	No	No	No
2563	40 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.6	42.7	46.7	44.6	0.1	1.9	No	No	No	No
2564	33 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	45.1	43.0	0.5	1.9	No	No	No	No
2565	14 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.0	40.9	45.4	43.3	0.4	2.4	No	No	No	No
2566	2 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	42.1	47.6	45.5	2.3	3.4	No	No	No	No
2567	2 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	40.4	44.0	48.1	46.0	7.7	2.0	No	No	No	No
2568	3 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.8	47.5	45.3	2.5	3.5	No	No	No	No
2569	7 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	60.4	55.9	57.6	55.6	-2.8	-0.3	No	No	No	No
2570	13 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	46.5	44.4	1.0	2.7	No	No	No	No
2571	38 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	42.1	47.5	45.3	2.1	3.2	No	No	No	No
2572	1 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	41.7	44.1	49.5	47.4	7.8	3.3	No	No	No	No
2573	4 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	40.8	44.5	48.9	46.8	8.1	2.3	No	No	No	No
2574	15 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	41.6	45.8	43.7	0.2	2.1	No	No	No	No
2575	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.3	40.7	44.5	42.4	0.2	1.7	No	No	No	No
2576	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.2	40.7	43.7	41.5	-0.5	0.8	No	No	No	No
2577	12 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.0	43.1	47.7	45.6	0.7	2.5	No	No	No	No
2578	4 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.6	49.1	46.9	1.9	3.3	No	No	No	No
2579	36 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.4	40.9	45.7	43.6	1.3	2.7	No	No	No	No
2580	32 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.6	39.9	43.9	41.7	0.3	1.8	No	No	No	No
2581	35 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.0	40.6	44.5	42.4	0.5	1.8	No	No	No	No
2582	16 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.8	47.4	45.2	2.6	3.4	No	No	No	No
2583	17 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.8	47.4	45.2	2.6	3.4	No	No	No	No
2584	37 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.2	39.9	44.3	42.2	1.1	2.3	No	No	No	No
2585	3 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	41.2	43.5	49.1	47.0	7.9	3.5	No	No	No	No
2586	5 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.6	49.3	47.2	1.1	2.6	No	No	No	No
2587	6 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	41.2	45.0	49.0	46.9	7.8	1.9	No	No	No	No
2588	5 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	42.6	45.1	51.4	49.2	8.8	4.1	No	No	No	No
2589	11 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.4	45.8	43.7	1.1	2.3	No	No	No	No
2590	34 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.5	40.1	44.2	42.1	0.7	2.0	No	No	No	No
2591	3 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	42.8	39.0	45.6	43.5	2.8	4.5	No	No	No	No
2592	2 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.2	42.8	48.3	46.2	2.1	3.4	No	No	No	No
2593	10 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	46.6	44.5	1.1	2.6	No	No	No	No
2594	34 DEANS AVENUE SINGLETON HEIGHTS	Residential	55	50	41.4	38.5	42.8	40.6	1.4	2.1	No	No	No	No
2595	1 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.2	44.5	49.8	47.7	1.6	3.2	No	No	No	No
2599	9 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.3	45.9	43.7	0.8	2.4	No	No	No	No
2600	38 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.1	38.4	42.7	40.5	1.6	2.1	No	No	No	No
2601	4941 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	60.5	56.0	57.2	55.3	-3.3	-0.7	No	No	No	No
2602	9 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.4	50.0	47.9	1.9	3.5	No	No	No	No
2603	4 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.1	48.9	46.8	1.1	2.7	No	No	No	No
2604	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.0	37.8	42.0	39.9	1.0	2.1	No	No	No	No
2605	8 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	43.8	40.1	44.8	42.6	1.0	2.5	No	No	No	No
2606	5 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.6	43.8	48.9	46.8	1.3	3.0	No	No	No	No
2607	11 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.1	49.6	47.5	1.7	3.4	No	No	No	No
2608	7 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.7	46.0	43.9	1.7	3.2	No	No	No	No
2609	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.3	38.2	42.5	40.4	1.2	2.2	No	No	No	No
2610	6 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.4	43.6	48.8	46.7	1.4	3.1	No	No	No	No
2611	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	42.7	39.5	43.9	41.7	1.2	2.2	No	No	No	No
2612	13 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.5	48.9	46.8	1.4	3.3	No	No	No	No
2613	15 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.5	48.7	46.6	1.4	3.1	No	No	No	No
2614	44A CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.4	41.5	46.2	44.1	0.8	2.6	No	No	No	No
2615	4943 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	60.6	56.1	57.2	55.3	-3.4	-0.8	No	No	No	No
2616	14 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.0	48.8	46.7	0.8	2.7	No	No	No	No
2617	30 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.3	47.0	44.9	0.8	2.6	No	No	No	No
2618	32 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	47.0	44.9	0.7	2.4	No	No	No	No
2619	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	42.7	48.1	46.0	1.1	3.3	No	No	No	No
2620	42 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.9	40.8	45.2	43.1	0.3	2.3	No	No	No	No
2622	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	42.8	47.9	45.8	0.7	3.0	No	No	No	No
2624	20 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.5	47.1	45.0	0.8	2.5	No	No	No	No
2625	17 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.1	46.9	44.8	0.6	2.7	No	No	No	No
2626	22 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.0	47.3	45.1	1.3	3.1	No	No	No	No
2627	20A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.2	37.9	42.9	40.8	1.7	2.9	No	No	No	No
2628	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.1	47.2	45.1	0.7	3.0	No	No	No	No
2629	19 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	46.1	44.0	0.8	2.5	No	No	No	No
2630	22A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	41.8	47.0	44.9	1.4	3.1	No	No	No	No
2631	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.6	48.6	46.5	1.0	2.9	No	No	No	No
2632	24 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	41.8	46.4	44.3	0.7	2.5	No	No	No	No
2633	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.6	45.9	43.7	1.5	3.1	No	No	No	No
2634	21 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.1	46.5	44.4	0.6	2.3	No	No	No	No
2635	26 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.3	39.4	44.4	42.3	1.1	2.9	No	No	No	No
2636	38 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.1	47.7	45.6	0.7	2.5	No	No	No	No
2638	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	43.8	48.8	46.7	0.9	2.9	No	No	No	No
2639	40 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.1	47.6	45.5	0.7	2.4	No	No	No	No
2640	23 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.2	46.7	44.6	0.6	2.4	No	No	No	No
2641	28 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	42.7	47.9	45.8	1.1	3.1	No	No	No	No
2643	25 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.1	46.6	44.5	0.5	2.4	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Year of Opening - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2644	42 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.0	47.6	45.5	0.7	2.5	No	No	No	No
2645	28A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	43.6	48.5	46.4	0.8	2.8	No	No	No	No
2646	30 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.4	46.7	44.6	0.4	2.2	No	No	No	No
2647	44 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.7	46.7	44.6	0.9	2.9	No	No	No	No
2648	27 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.1	48.0	45.9	0.9	2.8	No	No	No	No
2649	32 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	42.9	47.5	45.4	0.5	2.5	No	No	No	No
2650	46 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.8	46.9	44.8	1.1	3.0	No	No	No	No
2652	29 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.1	48.1	46	1	2.9	No	No	No	No
2653	34 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.0	47.9	45.8	0.8	2.8	No	No	No	No
2654	36 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	42.7	47.6	45.5	0.8	2.8	No	No	No	No
2655	50 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.0	47.4	45.3	1.3	3.3	No	No	No	No
2656	52 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	42.8	47.9	45.8	1.0	3.0	No	No	No	No
2657	38 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.4	47.3	45.2	0.7	2.8	No	No	No	No
2658	42 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.1	47.9	45.8	0.7	2.7	No	No	No	No
2659	40 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	47.4	45.3	0.7	2.7	No	No	No	No
2661	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	57.7	54.6	55.1	52.9	-2.6	-1.7	No	No	No	No
2662	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.2	49.9	54.0	52.0	0.8	2.1	Yes	No	No	Yes
2663	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.5	50.2	53.6	51.7	0.1	1.5	Yes	No	No	No
2664	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.2	50.9	53.7	51.7	-0.5	0.8	Yes	No	No	No
2665	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.7	50.5	53.7	51.7	0.0	1.2	Yes	No	No	No
2666	1-3 SCOTT STREET SINGLETON	Residential	0	0	39.3	36.5	48.2	46.8	8.9	10.3	No	No	No	No
2667	1 VIEW STREET SINGLETON	Residential	0	0	39.0	36.2	47.5	46.0	8.5	9.8	No	No	No	No
2677	5065 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	60	55	54.2	54.0	55.7	53.7	1.5	-0.3	No	No	No	No
2679	5077 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	60	55	59.2	59.2	61.0	59.0	1.8	-0.2	Yes	No	No	No
2690	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	47.2	46.0	47.8	45.8	0.6	-0.2	No	No	No	No
2691	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	48.4	47.4	49.2	47.2	0.8	-0.2	No	No	No	No
2692	5066 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	59	54	50.4	49.9	52.5	50.4	2.1	0.5	No	No	No	No
2694	100 GARDNER CIRCUIT SINGLETON HEIGHTS	Residential	55	50	40.8	38.7	42.2	40.0	1.4	1.3	No	No	No	No
2697	92 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.8	37.7	41.2	39.0	1.4	1.3	No	No	No	No
2698	94 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.9	37.8	41.1	39.0	1.2	1.2	No	No	No	No
2700	96 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.0	37.8	41.2	39.0	1.2	1.2	No	No	No	No
2702	98 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.1	37.8	41.2	39.0	1.1	1.2	No	No	No	No
2703	90 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.1	36.9	40.4	38.2	1.3	1.3	No	No	No	No
2704	88 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.9	36.6	40.2	38.0	1.3	1.4	No	No	No	No
2705	86 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.7	36.5	40.1	37.9	1.4	1.4	No	No	No	No
2706	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.7	36.4	40.1	37.9	1.4	1.5	No	No	No	No
2707	48 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.2	46.8	44.7	0.6	2.5	No	No	No	No
2708	47 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.7	45.6	43.5	0.4	1.8	No	No	No	No
2709	49 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.5	47.0	44.8	0.5	2.3	No	No	No	No
2710	51 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.0	47.1	45.0	0.9	3.0	No	No	No	No
2711	53 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.0	46.9	44.8	0.9	2.8	No	No	No	No
2712	46 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	42.8	47.6	45.5	0.7	2.7	No	No	No	No
2714	48 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.2	47.2	45.1	0.9	2.9	No	No	No	No
2717	35 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.8	46.1	44.0	0.3	2.2	No	No	No	No
2718	44 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.3	46.9	44.8	0.5	2.5	No	No	No	No
2720	50 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.7	46.7	44.6	0.9	2.9	No	No	No	No
2721	37 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.9	39.9	44.7	42.5	0.8	2.6	No	No	No	No
2722	38 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	42.7	38.9	43.8	41.6	1.1	2.7	No	No	No	No
2723	52 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.3	46.1	44.0	0.7	2.7	No	No	No	No
2726	54 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.6	38.8	43.9	41.8	1.3	3.0	No	No	No	No
2727	40 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	42.0	38.3	42.8	40.6	0.8	2.3	No	No	No	No
2728	56 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.1	42.0	47.0	44.9	0.9	2.9	No	No	No	No
2729	60 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.6	38.8	43.8	41.6	1.2	2.8	No	No	No	No
2730	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.7	37.2	41.5	39.4	0.8	2.2	No	No	No	No
2731	64 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.6	37.1	41.8	39.6	1.2	2.5	No	No	No	No
2732	58 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.1	45.7	43.6	0.5	2.5	No	No	No	No
2733	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.0	38.5	43.5	41.3	1.5	2.8	No	No	No	No
2734	3 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.6	37.0	41.7	39.5	1.1	2.5	No	No	No	No
2735	2 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.1	35.8	40.4	38.2	1.3	2.4	No	No	No	No
2736	4 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	41.7	38.0	42.6	40.5	0.9	2.5	No	No	No	No
2737	1 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.4	36.1	40.7	38.5	1.3	2.4	No	No	No	No
2738	5 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.2	36.7	41.5	39.3	1.3	2.6	No	No	No	No
2739	68 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.3	37.9	42.2	40.0	0.9	2.1	No	No	No	No
2740	6 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.6	36.2	40.9	38.7	1.3	2.5	No	No	No	No
2741	6 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.4	38.0	42.2	40.1	0.8	2.1	No	No	No	No
2742	1 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.5	37.2	41.5	39.3	1.0	2.1	No	No	No	No
2743	7 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.0	36.7	41.1	38.9	1.1	2.2	No	No	No	No
2744	2 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	39.8	36.5	41.0	38.8	1.2	2.3	No	No	No	No
2745	5 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.7	38.3	42.5	40.4	0.8	2.1	No	No	No	No
2746	1 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.2	37.9	42.2	40.0	1.0	2.1	No	No	No	No
2747	4 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.8	37.7	42.0	39.9	1.2	2.2	No	No	No	No
2748	3 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.3	37.1	41.3	39.1	1	2	No	No	No	No
2749	2 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.5	37.5	41.9	39.7	1.4	2.2	No	No	No	No
2750	4 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.2	37.1	41.4	39.2	1.2	2.1	No	No	No	No
2751	8 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	41.0	37.8	42.0	39.8	1.0	2.0	No	No	No	No
2752	3 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.0	37.1	41.4	39.3	1.4	2.2	No	No	No	No
2753	5 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	39.9	36.9	41.1	39	1.2	2.1	No	No	No	No
2754	74 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.8	37.1	41.0	38.8	1.2	1.7	No	No	No	No
2755	7 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.0	37.2	41.3	39.2	1.3	2.0	No	No	No	No
2757	6 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	39.9	37.0	41.3	39.2	1.4	2.2	No	No	No	No
2758	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.8	35.7	40.0	37.9	1.2	2.2	No	No	No	No
2759	76 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.7	36.4	40.2	38.1	1.5	1.7	No	No	No	No
2760	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.4	36.8	40.9	38.8	1.5	2.0	No	No	No	No
2762	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.1	36.6	40.5	38.3	1.4	1.7	No	No	No	No
2763	82 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	38.8	36.4	40.0	37.8	1.2	1.4	No	No	No	No
2764	84 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.1	36.7	40.3	38.2	1.2	1.5	No	No	No	No
2765	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.2	36.7	40.3	38.1	1.1	1.4	No	No	No	No
2766	5022 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	52.1	49.7	54.1	51.9	2.0	2.2	Yes	No	No	Yes
2130	4862 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	64.5	61.6	63.9	61.7	-0.6	0.1	Yes	Yes	No	Yes
2229	4864 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	59.4	56.5	61.0	58.8	1.6	2.3	Yes	Yes	No	Yes

Note: * Facade with the greatest change in noise levels

Design Year - Noise Barrier

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1013	53 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	51.8	49.4	52.1	50.2	0.3	0.8	No	No	No	No
1015	61 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	50.6	48.2	50.9	49.0	0.3	0.8	No	No	No	No
1020	4245 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	61.8	59.4	61.9	59.9	0.1	0.5	No	No	No	No
1023	4244 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	69.1	66.7	69.2	67.3	0.1	0.6	No	No	No	No
1027	18 CEMETERY LANE WHITTINGHAM	Residential	60	55	60.3	57.9	60.4	58.5	0.1	0.6	No	No	No	No
1028	28 CEMETERY LANE WHITTINGHAM	Residential	60	55	57.3	54.9	57.3	55.4	0.0	0.5	No	No	No	No
1029	13 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	58.5	56.1	58.3	56.3	-0.2	0.2	No	No	No	No
1031	4253 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	60	55	75.0	72.6	75.2	73.2	0.2	0.6	No	No	No	No
1032	4 HAGGARTYS LANE WHITTINGHAM	Residential	60	55	69.6	67.2	69.7	67.8	0.1	0.6	No	No	No	No
1041	18 NEWINGTON LANE WHITTINGHAM	Residential	60	55	58.4	56.0	58.5	56.6	0.1	0.6	Yes	No	No	No
1049	3 NEWINGTON LANE WHITTINGHAM	Residential	55	50	65.9	63.5	64.0	62.2	-1.9	-1.3	Yes	Yes	No	Yes
1051	4339 NEW ENGLAND HIGHWAY WHITTINGHAM	Residential	55	50	56.0	53.6	58.2	56.4	2.2	2.8	Yes	Yes	No	Yes
1055	48 MAITLAND ROAD SINGLETON	Residential	55	50	53.9	51.5	51.6	49.7	-2.3	-1.8	No	No	No	No
1060	8 THE GLADE GOWRIE	Residential	55	50	49.3	45.5	50.6	47.8	1.3	2.3	No	No	No	No
1070	6 THE GLADE GOWRIE	Residential	55	50	50.8	47.1	51.8	48.9	1.0	1.8	No	No	No	No
1073	18 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.4	47.0	47.4	45.5	-2.0	-1.5	No	No	No	No
1075	19 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.5	51.1	51.4	49.5	-2.1	-1.6	No	No	No	No
1077	17 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.8	45.4	46.2	44.3	-1.6	-1.1	No	No	No	No
1078	4 THE GLADE GOWRIE	Residential	55	50	53.4	49.6	53.6	50.0	0.2	0.4	No	No	No	No
1081	20 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.7	51.3	51.5	49.6	-2.2	-1.7	No	No	No	No
1083	4403 NEW ENGLAND HIGHWAY SINGLETON	Residential	55	50	68.8	66.4	62.2	60.0	-6.6	-6.4	Yes	Yes	No	Yes
1085	16 ARDERSIER DRIVE SINGLETON	Residential	55	50	48.0	45.6	46.2	44.3	-1.8	-1.3	No	No	No	No
1087	21 ARDERSIER DRIVE SINGLETON	Residential	55	50	54.4	52.0	52.1	50.1	-2.3	-1.9	No	No	No	No
1089	15 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.4	45.6	43.6	-1.2	-0.8	No	No	No	No
1091	14 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.1	43.7	44.9	43.0	-1.2	-0.7	No	No	No	No
1093	22 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.3	52.9	52.8	50.8	-2.5	-2.1	Yes	No	No	No
1095	11 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.9	43.5	44.6	42.6	-1.3	-0.9	No	No	No	No
1099	23 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.9	53.5	53.3	51.3	-2.6	-2.2	Yes	No	No	No
1101	13 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.3	44.9	45.9	44.0	-1.4	-0.9	No	No	No	No
1103	9 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.6	43.2	44.1	42.2	-1.5	-1.0	No	No	No	No
1106	2 THE GLADE GOWRIE	Residential	55	50	60.7	56.8	60.6	53.8	-0.1	-3.0	No	No	No	No
1107	12 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.0	44.6	45.6	43.7	-1.4	-0.9	No	No	No	No
1109	24 ARDERSIER DRIVE SINGLETON	Residential	55	50	55.5	53.2	52.9	50.9	-2.6	-2.3	Yes	No	No	No
1111	8 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.3	42.9	44.0	42.0	-1.3	-0.9	No	No	No	No
1113	10 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.6	44.2	44.9	42.9	-1.7	-1.3	No	No	No	No
1115	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	44.9	42.5	43.6	41.6	-1.3	-0.9	No	No	No	No
1117	25 ARDERSIER DRIVE SINGLETON	Residential	55	50	57.7	55.3	54.7	52.7	-3.0	-2.6	Yes	No	No	No
1119	7 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.4	45.0	45.6	43.7	-1.8	-1.3	No	No	No	No
1121	26 ARDERSIER DRIVE SINGLETON	Residential	55	50	50.9	48.4	48.3	46.3	-2.6	-2.1	No	No	No	No
1123	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.7	43.2	44.2	42.3	-1.5	-0.9	No	No	No	No
1125	4 ARDERSIER DRIVE SINGLETON	Residential	55	50	45.6	43.2	44.1	42.1	-1.5	-1.1	No	No	No	No
1129	6 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.5	45.1	46.1	44.2	-1.4	-0.9	No	No	No	No
1131	27 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.0	46.6	47.2	45.2	-1.8	-1.4	No	No	No	No
1133	28 ARDERSIER DRIVE SINGLETON	Residential	55	50	49.9	47.5	47.6	45.5	-2.3	-2.0	No	No	No	No
1135	2 GASLIGHT PLACE SINGLETON	Residential	55	50	56.4	54.0	53.6	51.6	-2.8	-2.4	Yes	No	No	No
1137	5 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.4	45.0	45.6	43.7	-1.8	-1.3	No	No	No	No
1139	28 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.3	44.9	45.8	43.9	-1.5	-1.0	No	No	No	No
1141	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.1	43.7	44.1	42.1	-2.0	-1.6	No	No	No	No
1147	24 GREENWOOD AVENUE SINGLETON	Residential	55	50	45.2	42.8	44.1	42.2	-1.1	-0.6	No	No	No	No
1149	7 GASLIGHT PLACE SINGLETON	Residential	55	50	48.5	46.0	47.0	45.1	-1.5	-0.9	No	No	No	No
1151	3 GASLIGHT PLACE SINGLETON	Residential	55	50	54.9	52.5	52.2	50.1	-2.7	-2.4	No	No	No	No
1155	3 ARDERSIER DRIVE SINGLETON	Residential	55	50	46.8	44.4	45.3	43.3	-1.5	-1.1	No	No	No	No
1159	22 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.8	45.4	46.1	44.1	-1.7	-1.3	No	No	No	No
1161	6 GASLIGHT PLACE SINGLETON	Residential	55	50	50.9	48.5	48.6	46.7	-2.3	-1.8	No	No	No	No
1163	2 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.7	45.2	45.9	43.9	-1.8	-1.3	No	No	No	No
1165	48 MAITLAND ROAD SINGLETON	Residential	55	50	60.6	58.2	57.2	55.1	-3.4	-3.1	No	No	No	No
1167	1 ARDERSIER DRIVE SINGLETON	Residential	55	50	47.6	45.2	45.6	43.6	-2.0	-1.6	No	No	No	No
1168	68 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	58.4	54.4	58.7	52.4	0.3	-2.0	No	No	No	No
1169	30 ARDERSIER DRIVE SINGLETON	Residential	55	50	51.4	49.0	49.2	47.2	-2.2	-1.8	No	No	No	No
1171	20 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.2	44.8	44.8	42.7	-2.4	-2.1	No	No	No	No
1173	18 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.9	45.5	46.1	44.2	-1.8	-1.3	No	No	No	No
1177	16 GREENWOOD AVENUE SINGLETON	Residential	55	50	47.6	45.2	45.8	43.9	-1.8	-1.3	No	No	No	No
1179	31 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.9	51.4	51.0	48.9	-2.9	-2.5	No	No	No	No
1181	4 GASLIGHT PLACE SINGLETON	Residential	55	50	56.1	53.7	53.1	51.1	-3.0	-2.6	No	No	No	No
1183	34 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.4	50.0	49.8	47.7	-2.6	-2.3	No	No	No	No
1185	33 ARDERSIER DRIVE SINGLETON	Residential	55	50	51.0	48.6	48.6	46.6	-2.4	-2.0	No	No	No	No
1187	14 GREENWOOD AVENUE SINGLETON	Residential	55	50	49.0	46.6	46.9	44.9	-2.1	-1.7	No	No	No	No
1189	32 ARDERSIER DRIVE SINGLETON	Residential	55	50	53.9	51.5	50.9	48.9	-3.0	-2.6	No	No	No	No
1191	35 ARDERSIER DRIVE SINGLETON	Residential	55	50	52.6	50.2	49.8	47.8	-2.8	-2.4	No	No	No	No
1193	19 GREENWOOD AVENUE SINGLETON	Residential	55	50	55.6	53.2	52.4	50.3	-3.2	-2.9	No	No	No	No
1195	12 GREENWOOD AVENUE SINGLETON	Residential	55	50	52.3	49.8	49.3	47.2	-3.0	-2.6	No	No	No	No
1207	15 GREENWOOD AVENUE SINGLETON	Residential	55	50	53.8	51.3	50.8	48.7	-3.0	-2.6	No	No	No	No
1211	9 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	66.1	63.7	62.4	60.2	-3.7	-3.5	No	No	No	No
1213	40 MAITLAND ROAD SINGLETON	Residential	55	50	67.4	65.0	63.7	61.5	-3.7	-3.5	No	No	No	No
1215	8 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.9	65.5	64.1	61.9	-3.8	-3.6	No	No	No	No
1216	70 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	55.0	51.1	54.5	50.4	-0.5	-0.7	No	No	No	No
1219	11 GREENWOOD AVENUE SINGLETON	Residential	55	50	57.5	55.1	54.0	51.9	-3.5	-3.2	No	No	No	No
1220	9 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.0	50.4	54.0	51.2	0.0	0.8	Yes	No	No	No
1221	7 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	67.8	65.4	64.1	61.8	-3.7	-3.6	No	No	No	No
1222	7 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.9	51.9	54.3	52.2	-1.6	0.3	Yes	No	No	No
1224	11 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.8	49.7	52.6	50.3	-1.2	0.6	No	No	No	No
1225	6 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	68.7	66.3	64.9	62.7	-3.8	-3.6	No	No	No	No
1226	13 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.0	49.0	52.5	49.7	-0.5	0.7	No	No	No	No
1229	10 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.1	54.7	53.8	51.8	-3.3	-2.9	No	No	No	No
1230	8 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	55.4	51.2	53.5	51.3	-1.9	0.1	Yes	No	No	No
1231	36 MAITLAND ROAD SINGLETON	Residential	55	50	70.0	67.6	66.2	64.0	-3.8	-3.6	No	No	No	No
1233	34 MAITLAND ROAD SINGLETON	Residential	55	50	68.3	65.9	64.6	62.4	-3.7	-3.5	No	No	No	No
1234	15 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.2	49.2	52.4	50.0	-0.8	0.8	No	No	No	No
1235	35B WADDELLS LANE WHITTINGHAM	Residential	55	50	50.8	48.4	60.7	59.1	9.9	10.7	Yes	Yes	No	Yes
1237	30 MAITLAND ROAD SINGLETON	Residential	55	50	70.4	68.0	66.7	64.5	-3.7	-3.5	No	No	No	No
1238	10 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	54.7	50.6	53.5	51.2	-1.2	0.6	Yes	No	No	No
1239	5 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	58.3	55.8	54.6	52.4	-3.7	-3.4	No	No	No	No
1241	12 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	55.4	53.0	52.6	50.6	-2.8	-2.4	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1243	32 MAITLAND ROAD SINGLETON	Residential	55	50	70.2	67.8	66.4	64.2	-3.8	-3.6	No	No	No	No
1244	12 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.9	49.9	52.7	50.7	-1.2	0.8	Yes	No	No	No
1245	4 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	63.3	60.9	59.6	57.4	-3.7	-3.5	No	No	No	No
1246	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.0	49.7	51.8	49.8	-2.2	0.1	No	No	No	No
1247	13 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	54.3	51.9	51.9	49.9	-2.4	-2.0	No	No	No	No
1250	3 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.2	50.9	53.4	51.3	-1.8	0.4	Yes	No	No	No
1251	2 FERGUSON CLOSE SINGLETON	Residential	55	50	55.1	52.7	51.6	49.4	-3.5	-3.3	No	No	No	No
1252	2 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	52.8	48.6	51.7	49.5	-1.1	0.9	No	No	No	No
1253	1 FERGUSON CLOSE SINGLETON	Residential	55	50	58.3	55.9	54.7	52.5	-3.6	-3.4	No	No	No	No
1255	14 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	53.5	51.1	51.3	49.3	-2.2	-1.8	No	No	No	No
1256	4 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.8	51.5	54.2	52.2	-1.6	0.7	Yes	No	No	No
1258	14 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	53.1	49.4	52.0	50.0	-1.1	0.6	No	No	No	No
1259	15 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	52.7	50.2	50.7	48.7	-2.0	-1.5	No	No	No	No
1261	3 FERGUSON CLOSE SINGLETON	Residential	55	50	55.0	52.6	51.5	49.3	-3.5	-3.3	No	No	No	No
1262	5 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	54.7	50.6	53.9	51.9	-0.8	1.3	Yes	No	No	No
1263	2 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	57.8	55.4	54.2	52.0	-3.6	-3.4	No	No	No	No
1265	16 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	51.9	49.5	50.2	48.3	-1.7	-1.2	No	No	No	No
1267	4 FERGUSON CLOSE SINGLETON	Residential	55	50	53.0	50.6	49.7	47.5	-3.3	-3.1	No	No	No	No
1268	4945 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	59.2	54.7	55.5	53.7	-3.7	-1.0	No	No	No	No
1269	5 FERGUSON CLOSE SINGLETON	Residential	55	50	53.5	51.1	50.1	47.9	-3.4	-3.2	No	No	No	No
1271	1 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	55.2	52.8	51.7	49.5	-3.5	-3.3	No	No	No	No
1279	17 TOWNHEAD CRESCENT SINGLETON	Residential	55	50	51.2	48.8	49.7	47.8	-1.5	-1.0	No	No	No	No
1289	20 WATERHOUSE AVENUE SINGLETON	Residential	55	50	55.7	53.3	52.2	50.1	-3.5	-3.2	No	No	No	No
1291	22 WATERHOUSE AVENUE SINGLETON	Residential	55	50	53.3	50.9	50.0	47.8	-3.3	-3.1	No	No	No	No
1293	24 WATERHOUSE AVENUE SINGLETON	Residential	55	50	51.6	49.1	48.7	46.6	-2.9	-2.5	No	No	No	No
1295	26 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.8	48.3	48.1	46.0	-2.7	-2.3	No	No	No	No
1297	28 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.2	47.8	47.6	45.6	-2.6	-2.2	No	No	No	No
1299	30 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.4	47.0	47.1	45.1	-2.3	-1.9	No	No	No	No
1301	32 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.5	48.1	49.0	47.1	-1.5	-1.0	No	No	No	No
1303	19 WATERHOUSE AVENUE SINGLETON	Residential	55	50	55.1	52.7	51.7	49.6	-3.4	-3.1	No	No	No	No
1309	17 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.8	52.4	51.4	49.2	-3.4	-3.2	No	No	No	No
1311	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	54.1	51.7	50.8	48.6	-3.3	-3.1	No	No	No	No
1313	23 WATERHOUSE AVENUE SINGLETON	Residential	55	50	51.8	49.4	48.8	46.7	-3.0	-2.7	No	No	No	No
1315	25 WATERHOUSE AVENUE SINGLETON	Residential	55	50	50.9	48.5	48.2	46.1	-2.7	-2.4	No	No	No	No
1317	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	47.1	44.6	46.4	44.5	-0.7	-0.1	No	No	No	No
1319	21 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.4	46.9	46.6	44.5	-2.8	-2.4	No	No	No	No
1320	72 KELSO STREET SINGLETON	Residential	55	50	50.7	48.3	48.4	46.4	-2.3	-1.9	No	No	No	No
1321	29 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.4	46.9	47.4	45.4	-2.0	-1.5	No	No	No	No
1322	31 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.2	46.8	47.5	45.5	-1.7	-1.3	No	No	No	No
1323	27 WATERHOUSE AVENUE SINGLETON	Residential	55	50	49.0	46.6	47.0	44.9	-2.0	-1.7	No	No	No	No
1324	70 KELSO STREET SINGLETON	Residential	55	50	48.6	46.2	47.9	46.0	-0.7	-0.2	No	No	No	No
1325	2 ELLEN AVENUE SINGLETON	Residential	55	50	50.2	47.8	48.3	46.3	-1.9	-1.5	No	No	No	No
1326	12 TULLOCH CLOSE SINGLETON	Residential	55	50	51.2	48.8	48.4	46.3	-2.8	-2.5	No	No	No	No
1327	9 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.4	46.0	46.5	44.5	-1.9	-1.5	No	No	No	No
1328	6 ELLEN AVENUE SINGLETON	Residential	55	50	48.5	46.1	46.8	44.8	-1.7	-1.3	No	No	No	No
1329	4 ELLEN AVENUE SINGLETON	Residential	55	50	49.5	47.1	47.6	45.6	-1.9	-1.5	No	No	No	No
1330	11 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.4	45.9	45.8	43.7	-2.6	-2.2	No	No	No	No
1331	7 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.2	45.8	46.2	44.2	-2.0	-1.6	No	No	No	No
1332	8 ELLEN AVENUE SINGLETON	Residential	55	50	50.6	48.2	49.1	47.2	-1.5	-1.0	No	No	No	No
1333	10 ELLEN AVENUE SINGLETON	Residential	55	50	49.8	47.4	48.9	47.0	-0.9	-0.4	No	No	No	No
1334	5 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	46.3	43.9	45.0	43.1	-1.3	-0.8	No	No	No	No
1335	68 KELSO STREET SINGLETON	Residential	55	50	48.4	45.9	47.5	45.6	-0.9	-0.3	No	No	No	No
1336	14 ELLEN AVENUE SINGLETON	Residential	55	50	51.3	48.8	51.3	49.5	0.0	0.7	No	No	No	No
1337	12 ELLEN AVENUE SINGLETON	Residential	55	50	49.5	47.1	48.9	47.1	-0.6	0.0	No	No	No	No
1338	1 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.1	44.7	45.3	43.4	-1.8	-1.3	No	No	No	No
1339	3 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.1	44.7	45.7	43.8	-1.4	-0.9	No	No	No	No
1340	16 ELLEN AVENUE SINGLETON	Residential	55	50	49.8	47.4	52.1	50.5	2.3	3.1	Yes	No	No	Yes
1341	66 KELSO STREET SINGLETON	Residential	55	50	47.0	44.6	46.8	45.0	-0.2	0.4	No	No	No	No
1343	10 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	49.6	47.2	47.0	44.9	-2.6	-2.3	No	No	No	No
1344	3 ELLEN AVENUE SINGLETON	Residential	55	50	43.7	41.3	45.7	43.9	2.0	2.6	No	No	No	No
1345	1 ELLEN AVENUE SINGLETON	Residential	55	50	47.5	45.1	46.1	44.2	-1.4	-0.9	No	No	No	No
1346	8 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.4	46.0	46.3	44.3	-2.1	-1.7	No	No	No	No
1347	6 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	48.1	45.7	46.1	44.1	-2.0	-1.6	No	No	No	No
1348	4 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.6	45.1	45.8	43.8	-1.8	-1.3	No	No	No	No
1349	103 KELSO STREET SINGLETON	Residential	55	50	45.5	43.1	44.7	42.8	-0.8	-0.3	No	No	No	No
1351	5 ELLEN AVENUE SINGLETON	Residential	55	50	45.0	42.6	46.1	44.3	1.1	1.7	No	No	No	No
1352	2 BRITTLIFFE CLOSE SINGLETON	Residential	55	50	47.5	45.0	46.0	44.0	-1.5	-1.0	No	No	No	No
1353	64 KELSO STREET SINGLETON	Residential	55	50	48.6	46.2	46.9	44.9	-1.7	-1.3	No	No	No	No
1354	7 ELLEN AVENUE SINGLETON	Residential	55	50	46.8	44.4	50.7	49.1	3.9	4.7	No	No	No	No
1355	101 KELSO STREET SINGLETON	Residential	55	50	43.8	41.4	45.6	43.8	1.8	2.4	No	No	No	No
1356	39 ADA STREET SINGLETON	Residential	55	50	48.5	46.1	47.7	45.9	-0.8	-0.2	No	No	No	No
1357	44 ADA STREET SINGLETON	Residential	55	50	43.2	40.8	45.3	43.6	2.1	2.8	No	No	No	No
1358	50 ORCHARD AVENUE SINGLETON	Residential	55	50	48.7	46.3	46.7	44.7	-2.0	-1.6	No	No	No	No
1359	62 KELSO STREET SINGLETON	Residential	55	50	45.6	43.2	46.1	44.4	0.5	1.2	No	No	No	No
1360	99 KELSO STREET SINGLETON	Residential	55	50	44.3	41.8	45.6	43.9	1.3	2.1	No	No	No	No
1361	35B WADDELLS LANE SINGLETON	Residential	55	50	47.8	45.3	54.6	53.2	6.8	7.9	Yes	No	No	Yes
1362	12 WADDELLS AVENUE SINGLETON	Residential	55	50	48.7	46.3	51.5	49.9	2.8	3.6	No	No	No	No
1363	37 ADA STREET SINGLETON	Residential	55	50	45.6	43.2	48.0	46.3	2.4	3.1	No	No	No	No
1364	42 ADA STREET SINGLETON	Residential	55	50	43.5	41.1	45.5	43.8	2.0	2.7	No	No	No	No
1365	52 ORCHARD AVENUE SINGLETON	Residential	55	50	48.0	45.6	46.0	44.0	-2.0	-1.6	No	No	No	No
1366	54 ORCHARD AVENUE SINGLETON	Residential	55	50	47.8	45.4	45.7	43.7	-2.1	-1.7	No	No	No	No
1367	60 KELSO STREET SINGLETON	Residential	55	50	45.5	43.1	46.3	44.6	0.8	1.5	No	No	No	No
1368	35 ADA STREET SINGLETON	Residential	55	50	45.1	42.6	48.2	46.6	3.1	4.0	No	No	No	No
1369	10 WADDELLS AVENUE SINGLETON	Residential	55	50	48.7	46.3	51.5	49.9	2.8	3.6	No	No	No	No
1370	40 ADA STREET SINGLETON	Residential	55	50	43.1	40.7	45.6	44.0	2.5	3.3	No	No	No	No
1371	97 KELSO STREET SINGLETON	Residential	55	50	43.8	41.4	45.5	43.8	1.7	2.4	No	No	No	No
1372	95 KELSO STREET SINGLETON	Residential	55	50	44.0	41.5	45.6	43.9	1.6	2.4	No	No	No	No
1373	8 WADDELLS AVENUE SINGLETON	Residential	55	50	46.9	44.5	50.5	48.9	3.6	4.4	No	No	No	No
1374	47 ORCHARD AVENUE SINGLETON	Residential	55	50	48.2	45.8	46.5	44.6	-1.7	-1.2	No	No	No	No
1375	33 ADA STREET SINGLETON	Residential	55	50	42.7	40.3	45.7	44.0	3.0	3.7	No	No	No	No
1376	38 ADA STREET SINGLETON	Residential	55	50	42.2	39.8	45.7	44.1	3.5	4.3	No	No	No	No
1377	49 ORCHARD AVENUE SINGLETON	Residential	55	50	48.0	45.6	46.1	44.1	-1.9	-1.5	No	No	No	No
1378	51 ORCHARD AVENUE SINGLETON	Residential	55	50	47.4	45.0	45.8	43.8	-1.6	-1.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1379	58 KELSO STREET SINGLETON	Residential	55	50	47.0	44.6	45.8	44.0	-1.2	-0.6	No	No	No	No
1380	6 WADDELLS AVENUE SINGLETON	Residential	55	50	46.9	44.5	50.4	48.8	3.5	4.3	No	No	No	No
1381	63 BUCHAN AVENUE SINGLETON	Residential	55	50	48.6	46.2	46.2	44.2	-2.4	-2.0	No	No	No	No
1382	36 ADA STREET SINGLETON	Residential	55	50	42.6	40.2	46.7	45.1	4.1	4.9	No	No	No	No
1383	4 WADDELLS AVENUE SINGLETON	Residential	55	50	46.2	43.8	50.2	48.6	4.0	4.8	No	No	No	No
1384	31 ADA STREET SINGLETON	Residential	55	50	43.0	40.6	46.6	45.0	3.6	4.4	No	No	No	No
1385	61 BUCHAN AVENUE SINGLETON	Residential	55	50	48.0	45.5	45.6	43.6	-2.4	-1.9	No	No	No	No
1386	56 KELSO STREET SINGLETON	Residential	55	50	44.3	41.9	45.6	43.9	1.3	2.0	No	No	No	No
1387	59 BUCHAN AVENUE SINGLETON	Residential	55	50	47.7	45.3	45.9	43.9	-1.8	-1.4	No	No	No	No
1388	85 KELSO STREET SINGLETON	Residential	55	50	45.1	42.6	44.5	42.6	-0.6	0.0	No	No	No	No
1389	2 WADDELLS AVENUE SINGLETON	Residential	55	50	46.1	43.7	50.1	48.5	4.0	4.8	No	No	No	No
1390	85 KELSO STREET SINGLETON	Residential	55	50	42.7	40.3	47.0	45.4	4.3	5.1	No	No	No	No
1391	54 KELSO STREET SINGLETON	Residential	55	50	43.9	41.5	45.5	43.8	1.6	2.3	No	No	No	No
1392	57 BUCHAN AVENUE SINGLETON	Residential	55	50	43.5	41.1	45.2	43.5	1.7	2.4	No	No	No	No
1393	55 BUCHAN AVENUE SINGLETON	Residential	55	50	41.8	39.3	45.8	44.2	4.0	4.9	No	No	No	No
1394	52 KELSO STREET SINGLETON	Residential	55	50	44.3	41.8	45.6	43.8	1.3	2.0	No	No	No	No
1395	85 KELSO STREET SINGLETON	Residential	55	50	44.4	42.0	44.3	42.4	-0.1	0.4	No	No	No	No
1396	50 KELSO STREET SINGLETON	Residential	55	50	43.7	41.2	45.5	43.9	1.8	2.7	No	No	No	No
1397	83 KELSO STREET SINGLETON	Residential	55	50	40.5	38.1	44.7	43.1	4.2	5.0	No	No	No	No
1398	83 KELSO STREET SINGLETON	Residential	55	50	43.2	40.7	47.2	45.6	4.0	4.9	No	No	No	No
1399	46 KELSO STREET SINGLETON	Residential	55	50	43.1	40.7	45.5	43.8	2.4	3.1	No	No	No	No
1400	81 KELSO STREET SINGLETON	Residential	55	50	41.3	38.9	46.2	44.6	4.9	5.7	No	No	No	No
1401	44 KELSO STREET SINGLETON	Residential	55	50	42.6	40.2	45.2	43.5	2.6	3.3	No	No	No	No
1402	79 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	46.9	45.3	3.7	4.5	No	No	No	No
1403	42 KELSO STREET SINGLETON	Residential	55	50	43.2	40.8	45.5	43.8	2.3	3.0	No	No	No	No
1404	77 KELSO STREET SINGLETON	Residential	55	50	44.3	41.8	47.3	45.6	3.0	3.8	No	No	No	No
1405	75 KELSO STREET SINGLETON	Residential	55	50	41.5	39.0	45.0	43.4	3.5	4.4	No	No	No	No
1406	40 KELSO STREET SINGLETON	Residential	55	50	43.1	40.6	45.4	43.7	2.3	3.1	No	No	No	No
1407	38 KELSO STREET SINGLETON	Residential	55	50	42.8	40.4	45.3	43.7	2.5	3.3	No	No	No	No
1409	36 KELSO STREET SINGLETON	Residential	55	50	42.7	40.2	45.2	43.5	2.5	3.3	No	No	No	No
1410	73 KELSO STREET SINGLETON	Residential	55	50	40.2	37.7	44.9	43.3	4.7	5.6	No	No	No	No
1411	16 ADA STREET SINGLETON	Residential	55	50	44.6	42.2	48.2	46.6	3.6	4.4	No	No	No	No
1412	71 KELSO STREET SINGLETON	Residential	55	50	42.2	39.8	45.9	44.2	3.7	4.4	No	No	No	No
1413	34 KELSO STREET SINGLETON	Residential	55	50	42.2	39.8	45.1	43.5	2.9	3.7	No	No	No	No
1414	14 ADA STREET SINGLETON	Residential	55	50	44.8	42.4	48.0	46.4	3.2	4.0	No	No	No	No
1415	69 KELSO STREET SINGLETON	Residential	55	50	43.4	41.0	46.3	44.6	2.9	3.6	No	No	No	No
1416	13 ADA STREET SINGLETON	Residential	55	50	44.6	42.1	49.0	47.4	4.4	5.3	No	No	No	No
1417	2 DEAKIN AVENUE SINGLETON	Residential	55	50	39.0	36.3	44.9	43.2	5.9	6.9	No	No	No	No
1418	12 ADA STREET SINGLETON	Residential	55	50	42.7	40.3	46.4	44.7	3.7	4.4	No	No	No	No
1419	32A KELSO STREET SINGLETON	Residential	55	50	42.9	40.5	45.3	43.6	2.4	3.1	No	No	No	No
1420	67 KELSO STREET SINGLETON	Residential	55	50	42.5	40.0	46.0	44.4	3.5	4.4	No	No	No	No
1421	12 ADA STREET SINGLETON	Residential	55	50	41.1	38.7	45.2	43.6	4.1	4.9	No	No	No	No
1422	11 ADA STREET SINGLETON	Residential	55	50	43.3	40.9	48.7	47.1	5.4	6.2	No	No	No	No
1424	65 KELSO STREET SINGLETON	Residential	55	50	42.7	40.3	46.5	44.9	3.8	4.6	No	No	No	No
1425	10 ADA STREET SINGLETON	Residential	55	50	43.4	41.0	47.4	45.8	4.0	4.8	No	No	No	No
1426	9 ADA STREET SINGLETON	Residential	55	50	44.0	41.6	48.7	47.1	4.7	5.5	No	No	No	No
1427	8 ADA STREET SINGLETON	Residential	55	50	43.0	40.6	47.2	45.6	4.2	5.0	No	No	No	No
1428	15 ADA STREET SINGLETON	Residential	55	50	43.6	41.2	51.4	50.0	7.8	8.8	No	No	Yes	Yes
1428	15 ADA STREET SINGLETON*	Residential	55	50	38.1	35.5	49.6	48.2	11.5	12.7				
1429	63 KELSO STREET SINGLETON	Residential	55	50	39.5	37.1	44.2	42.6	4.7	5.5	No	No	No	No
1431	30 KELSO STREET SINGLETON	Residential	55	50	42.5	40.0	45.2	43.5	2.7	3.5	No	No	No	No
1432	6 ADA STREET SINGLETON	Residential	55	50	42.5	40.0	46.0	44.4	3.5	4.4	No	No	No	No
1433	4 ADA STREET SINGLETON	Residential	55	50	41.4	38.9	44.5	42.8	3.1	3.9	No	No	No	No
1434	61 KELSO STREET SINGLETON	Residential	55	50	42.4	39.9	44.5	42.8	2.1	2.9	No	No	No	No
1436	7 ADA STREET SINGLETON	Residential	55	50	43.8	41.4	48.2	46.7	4.4	5.3	No	No	No	No
1437	4 ADA STREET SINGLETON	Residential	55	50	42.9	40.5	45.9	44.3	3.0	3.8	No	No	No	No
1439	26 KELSO STREET SINGLETON	Residential	55	50	42.2	39.7	45.0	43.3	2.8	3.6	No	No	No	No
1440	2 ADA STREET SINGLETON	Residential	55	50	42.5	40.1	45.8	44.2	3.3	4.1	No	No	No	No
1441	5 ADA STREET SINGLETON	Residential	55	50	44.0	41.6	48.4	46.8	4.4	5.2	No	No	No	No
1442	59 KELSO STREET SINGLETON	Residential	55	50	40.6	38.1	44.6	43.0	4.0	4.9	No	No	No	No
1443	3 ADA STREET SINGLETON	Residential	55	50	39.9	37.5	46.8	45.2	6.9	7.7	No	No	No	No
1444	57 KELSO STREET SINGLETON	Residential	55	50	41.3	38.9	44.9	43.3	3.6	4.4	No	No	No	No
1445	6 BOND STREET SINGLETON	Residential	55	50	43.1	40.7	44.3	42.6	1.2	1.9	No	No	No	No
1446	1A ADA STREET SINGLETON	Residential	55	50	42.9	40.4	47.9	46.3	5.0	5.9	No	No	No	No
1447	4 BOND STREET SINGLETON	Residential	55	50	42.9	40.5	44.9	43.2	2.0	2.7	No	No	No	No
1448	55 KELSO STREET SINGLETON	Residential	55	50	40.3	37.9	44.9	43.3	4.6	5.4	No	No	No	No
1449	2 BOND STREET SINGLETON	Residential	55	50	41.4	39.0	45.8	44.3	4.4	5.3	No	No	No	No
1452	53 KELSO STREET SINGLETON	Residential	55	50	40.5	38.1	44.8	43.2	4.3	5.1	No	No	No	No
1454	51 KELSO STREET SINGLETON	Residential	55	50	41.0	38.6	44.9	43.2	3.9	4.6	No	No	No	No
1455	1 ADA STREET SINGLETON	Residential	55	50	44.6	42.1	49.7	48.2	5.1	6.1	No	No	Yes	Yes
1455	1 ADA STREET SINGLETON*	Residential	55	50	36.5	33.9	47.4	45.9	10.9	12.0				
1456	2 ROSE AVENUE SINGLETON	Residential	55	50	44.8	42.4	47.2	45.5	2.4	3.1	No	No	No	No
1457	40 ANDREW STREET SINGLETON	Residential	55	50	41.1	38.7	45.5	43.9	4.4	5.2	No	No	No	No
1458	6 ROSE AVENUE SINGLETON	Residential	55	50	45.5	43.1	47.6	46.0	2.1	2.9	No	No	No	No
1459	4 ROSE AVENUE SINGLETON	Residential	55	50	45.0	42.6	46.5	44.8	1.5	2.2	No	No	No	No
1460	38 ANDREW STREET SINGLETON	Residential	55	50	38.2	35.8	44.6	43.1	6.4	7.3	No	No	No	No
1462	10 ROSE AVENUE SINGLETON	Residential	55	50	46.2	43.8	47.3	45.6	1.1	1.8	No	No	No	No
1463	8 ROSE AVENUE SINGLETON	Residential	55	50	45.5	43.1	47.4	45.7	1.9	2.6	No	No	No	No
1464	36 ANDREW STREET SINGLETON	Residential	55	50	39.2	36.7	44.9	43.3	5.7	6.6	No	No	No	No
1465	12 ROSE AVENUE SINGLETON	Residential	55	50	46.5	44.1	48.3	46.7	1.8	2.6	No	No	No	No
1466	16 ROSE AVENUE SINGLETON	Residential	55	50	45.9	43.4	47.3	45.6	1.4	2.2	No	No	No	No
1467	14 ROSE AVENUE SINGLETON	Residential	55	50	46.4	44.0	48.0	46.3	1.6	2.3	No	No	No	No
1468	18 ROSE AVENUE SINGLETON	Residential	55	50	44.8	42.4	47.3	45.6	2.5	3.2	No	No	No	No
1469	20 ROSE AVENUE SINGLETON	Residential	55	50	42.4	39.9	47.2	45.6	4.8	5.7	No	No	No	No
1470	13 RENSHAW AVENUE SINGLETON	Residential	55	50	43.7	41.2	49.8	48.3	6.1	7.1	No	No	No	No
1471	35 ANDREW STREET SINGLETON	Residential	55	50	43.6	41.1	44.7	43.0	1.1	1.9	No	No	No	No
1472	3 ROSE AVENUE SINGLETON	Residential	55	50	44.5	42.1	45.0	43.2	0.5	1.1	No	No	No	No
1473	5 ROSE AVENUE SINGLETON	Residential	55	50	45.4	42.9	45.8	44.0	0.4	1.1	No	No	No	No
1474	26 VIEW STREET SINGLETON	Residential	55	50	45.9	43.5	46.9	45.2	1.0	1.7	No	No	No	No
1475	32 ANDREW STREET SINGLETON	Residential	55	50	40.8	38.4	44.9	43.3	4.1	4.9	No	No	No	No
1476	1 RENSHAW AVENUE SINGLETON	Residential	55	50	42.6	40.2	49.6	48.2	7.0	8.0	No	No	Yes	Yes
1476	1 RENSHAW AVENUE SINGLETON*	Residential	55	50	34.9	32.3	46.3	44.8	11.4	12.5				
1477	32 ANDREW STREET SINGLETON	Residential	55	50	40.7	38.3	44.8	43.2	4.1	4.9	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1478	29 VIEW STREET SINGLETON	Residential	55	50	43.2	40.7	48.4	46.9	5.2	6.2	No	No	No	No
1479	2 RENSHAW AVENUE SINGLETON	Residential	55	50	42.6	40.1	48.2	46.7	5.6	6.6	No	No	No	No
1480	32 ANDREW STREET SINGLETON	Residential	55	50	40.0	37.6	44.6	43.0	4.6	5.4	No	No	No	No
1482	33 ANDREW STREET SINGLETON	Residential	55	50	43.1	40.7	44.4	42.6	1.3	1.9	No	No	No	No
1483	24 VIEW STREET SINGLETON	Residential	55	50	42.8	40.3	46.5	44.9	3.7	4.6	No	No	No	No
1484	32 ANDREW STREET SINGLETON	Residential	55	50	40.4	38.0	44.6	42.9	4.2	4.9	No	No	No	No
1485	3 RENSHAW AVENUE SINGLETON	Residential	55	50	41.8	39.3	49.5	48.0	7.7	8.7	No	No	Yes	Yes
1485	3 RENSHAW AVENUE SINGLETON*	Residential	55	50	34.8	32.2	46.0	44.5	11.2	12.3				
1486	30 ANDREW STREET SINGLETON	Residential	55	50	41.1	38.7	44.7	43.0	3.6	4.3	No	No	No	No
1487	27 VIEW STREET SINGLETON	Residential	55	50	38.1	35.5	47.5	46.0	9.4	10.5	No	No	No	No
1488	4 RENSHAW AVENUE SINGLETON	Residential	55	50	41.7	39.2	48.1	46.6	6.4	7.4	No	No	No	No
1490	6 RENSHAW AVENUE SINGLETON	Residential	55	50	42.4	40.0	48.2	46.7	5.8	6.7	No	No	No	No
1491	22 VIEW STREET SINGLETON	Residential	55	50	41.2	38.8	46.0	44.4	4.8	5.6	No	No	No	No
1492	43 KELSO STREET SINGLETON	Residential	55	50	37.9	35.1	44.6	43.0	6.7	7.9	No	No	No	No
1493	5 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	49.5	48.0	7.5	8.5	No	No	No	No
1494	25 VIEW STREET SINGLETON	Residential	55	50	38.0	35.4	47.1	45.6	9.1	10.2	No	No	No	No
1495	8 RENSHAW AVENUE SINGLETON	Residential	55	50	40.9	38.4	48.1	46.6	7.2	8.2	No	No	No	No
1496	20 VIEW STREET SINGLETON	Residential	55	50	44.3	41.9	47.2	45.6	2.9	3.7	No	No	No	No
1497	7 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	49.3	47.8	7.3	8.3	No	No	No	No
1498	29 ANDREW STREET SINGLETON	Residential	55	50	41.0	38.6	44.6	42.9	3.6	4.3	No	No	No	No
1499	23 VIEW STREET SINGLETON	Residential	55	50	41.8	39.4	48.1	46.6	6.3	7.2	No	No	No	No
1500	10 RENSHAW AVENUE SINGLETON	Residential	55	50	41.9	39.5	48.4	46.8	6.5	7.3	No	No	No	No
1501	36A VICTORIA STREET GLENRIDDING	Residential	55	50	42.6	40.2	52.5	51.0	9.9	10.8	Yes	No	Yes	Yes
1501	36A VICTORIA STREET GLENRIDDING*	Residential	55	50	38.7	36.1	50.5	49.0	11.8	12.9				
1502	9 RENSHAW AVENUE SINGLETON	Residential	55	50	42.7	40.2	49.3	47.8	6.6	7.6	No	No	No	No
1503	18 VIEW STREET SINGLETON	Residential	55	50	43.5	41.0	46.9	45.3	3.4	4.3	No	No	No	No
1504	21 VIEW STREET SINGLETON	Residential	55	50	42.7	40.2	48.4	46.9	5.7	6.7	No	No	No	No
1505	28 ANDREW STREET SINGLETON	Residential	55	50	41.2	38.7	44.5	42.8	3.3	4.1	No	No	No	No
1507	19 VIEW STREET SINGLETON	Residential	55	50	39.2	36.7	47.6	46.1	8.4	9.4	No	No	No	No
1508	12 RENSHAW AVENUE SINGLETON	Residential	55	50	42.0	39.5	48.2	46.7	6.2	7.2	No	No	No	No
1509	11 RENSHAW AVENUE SINGLETON	Residential	55	50	37.8	35.4	45.0	43.4	7.2	8.0	No	No	No	No
1511	27 ANDREW STREET SINGLETON	Residential	55	50	42.1	39.6	45.0	43.4	2.9	3.8	No	No	No	No
1512	16 VIEW STREET SINGLETON	Residential	55	50	43.3	40.8	47.0	45.4	3.7	4.6	No	No	No	No
1513	26 ANDREW STREET SINGLETON	Residential	55	50	41.8	39.3	45.1	43.4	3.3	4.1	No	No	No	No
1514	17 VIEW STREET SINGLETON	Residential	55	50	44.0	41.5	48.7	47.1	4.7	5.6	No	No	No	No
1515	14 RENSHAW AVENUE SINGLETON	Residential	55	50	42.5	40.1	48.3	46.7	5.8	6.6	No	No	No	No
1516	25 ANDREW STREET SINGLETON	Residential	55	50	44.0	41.5	45.9	44.1	1.9	2.6	No	No	No	No
1517	14 VIEW STREET SINGLETON	Residential	55	50	42.8	40.3	46.8	45.2	4.0	4.9	No	No	No	No
1518	22 RENSHAW AVENUE SINGLETON	Residential	55	50	42.6	40.1	49.7	48.2	7.1	8.1	No	No	No	No
1519	20 RENSHAW AVENUE SINGLETON	Residential	55	50	41.9	39.5	47.3	45.7	5.4	6.2	No	No	No	No
1520	18 RENSHAW AVENUE SINGLETON	Residential	55	50	41.2	38.8	46.5	44.9	5.3	6.1	No	No	No	No
1521	15 VIEW STREET SINGLETON	Residential	55	50	43.7	41.3	48.6	47.0	4.9	5.7	No	No	No	No
1522	23 ANDREW STREET SINGLETON	Residential	55	50	43.5	41.0	45.5	43.7	2.0	2.7	No	No	No	No
1523	24 ANDREW STREET SINGLETON	Residential	55	50	41.6	39.0	44.4	42.7	2.8	3.7	No	No	No	No
1524	16 RENSHAW AVENUE SINGLETON	Residential	55	50	44.8	42.3	49.5	47.9	4.7	5.6	No	No	No	No
1525	12 VIEW STREET SINGLETON	Residential	55	50	39.3	36.5	46.1	44.5	6.8	8.0	No	No	No	No
1526	13 VIEW STREET SINGLETON	Residential	55	50	42.8	40.4	48.4	46.9	5.6	6.5	No	No	No	No
1527	12 RAILWAY STREET SINGLETON	Residential	55	50	41.3	38.8	49.2	47.7	7.9	8.9	No	No	No	No
1528	21 ANDREW STREET SINGLETON	Residential	55	50	39.3	36.8	44.8	43.2	5.5	6.4	No	No	No	No
1529	22 ANDREW STREET SINGLETON	Residential	55	50	40.8	38.3	44.2	42.5	3.4	4.2	No	No	No	No
1530	20 ANDREW STREET SINGLETON	Residential	55	50	40.1	37.6	44.0	42.4	3.9	4.8	No	No	No	No
1531	10 VIEW STREET SINGLETON	Residential	55	50	40.7	38.2	46.0	44.4	5.3	6.2	No	No	No	No
1532	10 RAILWAY STREET SINGLETON	Residential	55	50	40.4	37.8	49.5	48.0	9.1	10.2	No	No	No	No
1533	11 VIEW STREET SINGLETON	Residential	55	50	43.2	40.7	48.8	47.2	5.6	6.5	No	No	No	No
1534	19 ANDREW STREET SINGLETON	Residential	55	50	42.7	40.2	45.1	43.3	2.4	3.1	No	No	No	No
1535	8 VIEW STREET SINGLETON	Residential	55	50	40.5	38.0	46.0	44.4	5.5	6.4	No	No	No	No
1536	17 ANDREW STREET SINGLETON	Residential	55	50	41.8	39.2	44.9	43.1	3.1	3.9	No	No	No	No
1537	18 ANDREW STREET SINGLETON	Residential	55	50	39.7	37.2	44.0	42.4	4.3	5.2	No	No	No	No
1538	8B RAILWAY STREET SINGLETON	Residential	55	50	41.9	39.3	48.7	47.2	6.8	7.9	No	No	No	No
1539	9 VIEW STREET SINGLETON	Residential	55	50	40.1	37.6	48.1	46.6	8.0	9.0	No	No	No	No
1540	6 VIEW STREET SINGLETON	Residential	55	50	39.6	37.1	45.5	44.0	5.9	6.9	No	No	No	No
1542	8 RAILWAY STREET SINGLETON	Residential	55	50	40.9	38.3	48.9	47.4	8.0	9.1	No	No	No	No
1543	7 VIEW STREET SINGLETON	Residential	55	50	40.5	38.1	47.8	46.3	7.3	8.2	No	No	No	No
1544	16 ANDREW STREET SINGLETON	Residential	55	50	38.3	35.5	44.4	42.8	6.1	7.3	No	No	No	No
1545	15 ANDREW STREET SINGLETON	Residential	55	50	39.5	36.9	44.6	43.0	5.1	6.1	No	No	No	No
1549	2 SCOTT STREET SINGLETON	Residential	55	50	39.7	37.0	48.8	47.3	9.1	10.3	No	No	No	No
1550	5 VIEW STREET SINGLETON	Residential	55	50	42.7	40.2	48.5	47.0	5.8	6.8	No	No	No	No
1553	4 VIEW STREET SINGLETON	Residential	55	50	38.6	36.0	45.2	43.6	6.6	7.6	No	No	No	No
1555	3A VIEW STREET SINGLETON	Residential	55	50	38.5	35.9	47.7	46.2	9.2	10.3	No	No	No	No
1556	13 ANDREW STREET SINGLETON	Residential	55	50	38.8	36.0	45.1	43.5	6.3	7.5	No	No	No	No
1558	14A ANDREW STREET SINGLETON	Residential	55	50	42.0	39.4	45.0	43.2	3.0	3.8	No	No	No	No
1559	2 SCOTT STREET SINGLETON	Residential	55	50	40.9	38.3	48.7	47.2	7.8	8.9	No	No	No	No
1560	3 VIEW STREET SINGLETON	Residential	55	50	41.2	38.7	48.4	46.9	7.2	8.2	No	No	No	No
1561	2A VIEW STREET SINGLETON	Residential	55	50	38.5	36.0	45.5	44.0	7.0	8.0	No	No	No	No
1562	14 ANDREW STREET SINGLETON	Residential	55	50	39.2	36.7	44.6	43.0	5.4	6.3	No	No	No	No
1563	2 VIEW STREET SINGLETON	Residential	55	50	39.2	36.4	46.3	44.7	7.1	8.3	No	No	No	No
1564	9-11 ANDREW STREET SINGLETON	Residential	55	50	37.8	35.0	44.6	43.0	6.8	8.0	No	No	No	No
1565	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	41.4	38.9	48.7	47.2	7.3	8.3	No	No	No	No
1566	12 ANDREW STREET SINGLETON	Residential	55	50	39.5	36.9	44.7	43.0	5.2	6.1	No	No	No	No
1567	32-33 VICTORIA STREET GLENRIDDING	Residential	55	50	40.7	38.2	49.9	48.4	9.2	10.2	No	No	No	No
1568	68 CHURCH STREET SINGLETON	Residential	55	50	37.8	35.0	44.9	43.3	7.1	8.3	No	No	No	No
1569	70 CHURCH STREET SINGLETON	Residential	55	50	39.3	36.7	46.1	44.6	6.8	7.9	No	No	No	No
1570	66 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.2	44.6	43.0	5.8	6.8	No	No	No	No
1572	55 CHURCH STREET GLENRIDDING	Residential	55	50	40.8	38.3	50.4	49.0	9.6	10.7	No	No	Yes	Yes
1572	55 CHURCH STREET GLENRIDDING*	Residential	55	50	33.9	31.3	46.6	45.1	12.7	13.8				
1573	64 CHURCH STREET SINGLETON	Residential	55	50	37.3	34.5	44.1	42.5	6.8	8.0	No	No	No	No
1575	56 CHURCH STREET SINGLETON	Residential	55	50	38.7	36.0	44.6	43.0	5.9	7.0	No	No	No	No
1576	60 CHURCH STREET SINGLETON	Residential	55	50	38.8	36.0	44.6	43.0	5.8	7.0	No	No	No	No
1577	62 CHURCH STREET SINGLETON	Residential	55	50	37.9	35.1	44.5	42.8	6.6	7.7	No	No	No	No
1578	31 VICTORIA STREET GLENRIDDING	Residential	55	50	39.6	36.9	48.9	47.4	9.3	10.5	No	No	No	No
1580	56 CHURCH STREET SINGLETON	Residential	55	50	38.6	35.9	44.6	43.0	6.0	7.1	No	No	No	No
1582	47 CHURCH STREET SINGLETON	Residential	55	50	39.1	36.4	47.6	46.1	8.5	9.7	No	No	No	No
1584	30 VICTORIA STREET GLENRIDDING	Residential	55	50	37.5	34.8	48.1	46.6	10.6	11.8	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1585	43 CHURCH STREET SINGLETON	Residential	55	50	38.7	35.9	46.1	44.5	7.4	8.6	No	No	No	No
1586	45 CHURCH STREET SINGLETON	Residential	55	50	39.9	37.1	47.1	45.5	7.2	8.4	No	No	No	No
1588	41 CHURCH STREET SINGLETON	Residential	55	50	38.7	35.9	44.7	43.0	6.0	7.1	No	No	No	No
1589	39A CHURCH STREET SINGLETON	Residential	55	50	39.0	36.1	45.3	43.7	6.3	7.6	No	No	No	No
1591	29 VICTORIA STREET GLENRIDDING	Residential	55	50	38.1	35.3	48.3	46.8	10.2	11.5	No	No	No	No
1592	37 CHURCH STREET SINGLETON	Residential	55	50	39.1	36.4	45.4	43.8	6.3	7.4	No	No	No	No
1593	41 CHURCH STREET SINGLETON	Residential	55	50	39.5	36.7	46.6	45.0	7.1	8.3	No	No	No	No
1594	35 CHURCH STREET SINGLETON	Residential	55	50	37.9	35.1	45.0	43.4	7.1	8.3	No	No	No	No
1595	28 VICTORIA STREET GLENRIDDING	Residential	55	50	38.7	35.9	48.2	46.7	9.5	10.8	No	No	No	No
1597	30 CARRINGTON STREET GLENRIDDING	Residential	55	50	39.6	36.8	50.9	49.4	11.3	12.6	No	No	Yes	Yes
1598	17 KELSO STREET SINGLETON	Residential	55	50	39.9	37.4	44.7	43.1	4.8	5.7	No	No	No	No
1599	27 VICTORIA STREET GLENRIDDING	Residential	55	50	36.0	33.2	47.2	45.7	11.2	12.5	No	No	Yes	Yes
1600	8 ANDREW STREET SINGLETON	Residential	55	50	40.4	37.8	45.4	43.8	5.0	6.0	No	No	No	No
1601	26 VICTORIA STREET GLENRIDDING	Residential	55	50	39.5	36.7	48.8	47.3	9.3	10.6	No	No	Yes	Yes
1601	26 VICTORIA STREET GLENRIDDING*	Residential	55	50	34.3	31.8	46.2	44.7	11.9	12.9				
1602	6 ANDREW STREET SINGLETON	Residential	55	50	39.6	37.0	45.3	43.7	5.7	6.7	No	No	No	No
1603	1 ANDREW STREET SINGLETON	Residential	55	50	39.5	36.9	46.3	44.7	6.8	7.8	No	No	No	No
1605	15 KELSO STREET SINGLETON	Residential	55	50	39.7	37.1	44.9	43.4	5.2	6.3	No	No	No	No
1606	25 VICTORIA STREET GLENRIDDING	Residential	55	50	40.2	37.5	48.5	47.0	8.3	9.5	No	No	No	No
1607	13 KELSO STREET SINGLETON	Residential	55	50	39.0	36.4	45.0	43.4	6.0	7.0	No	No	No	No
1608	11 KELSO STREET SINGLETON	Residential	55	50	39.6	37.0	45.4	43.8	5.8	6.8	No	No	No	No
1609	23 VICTORIA STREET GLENRIDDING	Residential	55	50	40.1	37.4	48.7	47.1	8.6	9.7	No	No	No	No
1610	4 ANDREW STREET SINGLETON	Residential	55	50	39.4	36.9	45.5	43.9	6.1	7.0	No	No	No	No
1611	9 KELSO STREET SINGLETON	Residential	55	50	39.1	36.5	45.0	43.4	5.9	6.9	No	No	No	No
1614	7 KELSO STREET SINGLETON	Residential	55	50	39.7	37.2	45.4	43.8	5.7	6.6	No	No	No	No
1615	2 ANDREW STREET SINGLETON	Residential	55	50	38.9	36.3	45.5	44.0	6.6	7.7	No	No	No	No
1616	5 KELSO STREET SINGLETON	Residential	55	50	40.7	38.1	45.6	44.0	4.9	5.9	No	No	No	No
1620	3 KELSO STREET SINGLETON	Residential	55	50	40.2	37.6	45.3	43.8	5.1	6.2	No	No	No	No
1622	10 CROWN STREET GLENRIDDING	Residential	55	50	39.9	37.1	49.9	48.4	10.0	11.3	No	No	No	No
1623	35 CARRINGTON STREET GLENRIDDING	Residential	55	50	41.2	38.4	50.2	48.7	9.0	10.3	No	No	No	No
1626	48 ARMY CAMP ROAD GLENRIDDING	Residential	55	50	46.2	43.4	53.9	52.3	7.7	8.9	Yes	No	Yes	Yes
1626	48 ARMY CAMP ROAD GLENRIDDING*	Residential	55	50	41.1	38.4	52.8	51.2	11.7	12.8				
1630	8 KELSO STREET SINGLETON	Residential	55	50	40.0	37.4	45.3	43.7	5.3	6.3	No	No	No	No
1633	13 CROWN STREET GLENRIDDING	Residential	55	50	42.9	40.1	52.1	50.6	9.2	10.5	Yes	No	No	Yes
1634	19 VICTORIA STREET GLENRIDDING	Residential	55	50	39.2	36.4	47.9	46.4	8.7	10.0	No	No	No	No
1635	9 CROWN STREET GLENRIDDING	Residential	55	50	40.1	37.3	49.7	48.2	9.6	10.9	No	No	No	No
1636	33 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.2	39.4	50.4	48.9	8.2	9.5	No	No	No	No
1637	16 VICTORIA STREET GLENRIDDING	Residential	55	50	40.6	37.7	49.4	47.9	8.8	10.2	No	No	No	No
1638	9 ALBERT STREET SINGLETON	Residential	55	50	42.2	39.6	45.5	43.8	3.3	4.2	No	No	No	No
1639	16 ALBERT STREET SINGLETON	Residential	55	50	40.9	38.4	45.2	43.6	4.3	5.2	No	No	No	No
1640	18 VICTORIA STREET GLENRIDDING	Residential	55	50	41.9	39.1	48.1	46.5	6.2	7.4	No	No	No	No
1641	7 ALBERT STREET SINGLETON	Residential	55	50	39.2	36.6	44.9	43.4	5.7	6.8	No	No	No	No
1642	16 ALBERT STREET SINGLETON	Residential	55	50	41.4	38.9	44.6	43.0	3.2	4.1	No	No	No	No
1647	5 ALBERT STREET SINGLETON	Residential	55	50	41.6	39.0	45.0	43.3	3.4	4.3	No	No	No	No
1648	29 CARRINGTON STREET GLENRIDDING	Residential	55	50	42.7	39.9	50.7	49.3	8.0	9.4	No	No	No	No
1649	13 WYNYARD STREET SINGLETON	Residential	55	50	39.4	36.8	44.7	43.1	5.3	6.3	No	No	No	No
1650	3 ALBERT STREET SINGLETON	Residential	55	50	39.8	37.3	45.0	43.4	5.2	6.1	No	No	No	No
1651	13 WYNYARD STREET SINGLETON	Residential	55	50	40.6	37.7	46.1	44.5	5.5	6.8	No	No	No	No
1653	1A ALBERT STREET SINGLETON	Residential	55	50	40.1	37.5	45.1	43.5	5.0	6.0	No	No	No	No
1654	12 ALBERT STREET SINGLETON	Residential	55	50	40.1	37.5	45.3	43.7	5.2	6.2	No	No	No	No
1658	15 VICTORIA STREET GLENRIDDING	Residential	55	50	38.3	35.4	47.0	45.5	8.7	10.1	No	No	No	No
1659	25 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.5	40.7	50.8	49.4	7.3	8.7	No	No	No	No
1660	10 ALBERT STREET SINGLETON	Residential	55	50	40.7	38.1	45.4	43.8	4.7	5.7	No	No	No	No
1662	1 ALBERT STREET SINGLETON	Residential	55	50	39.9	37.3	45.6	44.0	5.7	6.7	No	No	No	No
1664	8 ALBERT STREET SINGLETON	Residential	55	50	40.7	38.1	45.4	43.8	4.7	5.7	No	No	No	No
1666	4 KELSO STREET SINGLETON	Residential	55	50	40.5	37.7	46.6	45.0	6.1	7.3	No	No	No	No
1667	2 KELSO STREET SINGLETON	Residential	55	50	41.8	39.0	48.0	46.5	6.2	7.5	No	No	No	No
1668	3 RAWCLIFFE STREET SINGLETON	Residential	55	50	41.1	38.3	46.6	45.0	5.5	6.7	No	No	No	No
1671	21 CARRINGTON STREET GLENRIDDING	Residential	55	50	43.9	41.1	50.3	48.8	6.4	7.7	No	No	No	No
1672	6 ALBERT STREET SINGLETON	Residential	55	50	40.6	38.0	45.3	43.7	4.7	5.7	No	No	No	No
1675	19 CARRINGTON STREET GLENRIDDING	Residential	55	50	44.5	41.7	50.4	48.9	5.9	7.2	No	No	No	No
1677	15 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.2	42.4	51.4	49.9	6.2	7.5	No	No	No	No
1678	4 ALBERT STREET SINGLETON	Residential	55	50	41.4	38.8	46.5	45.0	5.1	6.2	No	No	No	No
1681	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	39.6	36.8	45.8	44.2	6.2	7.4	No	No	No	No
1682	9 WYNYARD STREET SINGLETON	Residential	55	50	42.3	39.6	45.6	43.9	3.3	4.3	No	No	No	No
1684	9 WYNYARD STREET SINGLETON	Residential	55	50	41.4	38.7	45.4	43.7	4.0	5.0	No	No	No	No
1685	13 CARRINGTON STREET GLENRIDDING	Residential	55	50	47.3	44.5	52.5	50.9	5.2	6.4	Yes	No	No	Yes
1686	9 WYNYARD STREET SINGLETON	Residential	55	50	40.2	37.5	45.9	44.3	5.7	6.8	No	No	No	No
1687	14 CARRINGTON STREET GLENRIDDING	Residential	55	50	44.8	41.9	51.8	50.2	7.0	8.3	No	No	No	No
1688	12 VICTORIA STREET GLENRIDDING	Residential	55	50	42.9	40.1	49.7	48.2	6.8	8.1	No	No	No	No
1689	9 WYNYARD STREET SINGLETON	Residential	55	50	41.3	38.7	46.9	45.3	5.6	6.6	No	No	No	No
1690	75 PUTTY ROAD GLENRIDDING	Residential	55	50	61.3	58.4	62.4	60.9	1.1	2.5	Yes	Yes	No	Yes
1692	12 CARRINGTON STREET GLENRIDDING	Residential	55	50	46.6	43.7	52.0	50.4	5.4	6.7	No	No	No	No
1693	32 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	56.4	53.5	62.8	61.3	6.4	7.8	Yes	Yes	Yes	Yes
1693	32 GLENRIDDING ROAD GLENRIDDING*	Residential	55	50	43.9	41.1	60.9	59.5	17.0	18.4				
1694	7 RAWCLIFFE STREET SINGLETON	Residential	55	50	41.2	38.3	46.5	44.9	5.3	6.6	No	No	No	No
1695	10 CARRINGTON STREET GLENRIDDING	Residential	55	50	46.8	43.9	52.2	50.6	5.4	6.7	Yes	No	No	Yes
1698	7 CARRINGTON STREET GLENRIDDING	Residential	55	50	45.9	43.0	52.1	50.6	6.2	7.6	Yes	No	No	Yes
1700	69 BATHURST STREET SINGLETON	Residential	55	50	40.5	37.9	46.1	44.6	5.6	6.7	No	No	No	No
1701	8 CARRINGTON STREET GLENRIDDING	Residential	55	50	47.3	44.4	53.3	51.7	6.0	7.3	Yes	No	No	Yes
1703	5 CARRINGTON STREET GLENRIDDING	Residential	55	50	48.4	45.6	52.9	51.4	4.5	5.8	Yes	No	No	Yes
1705	8 MUNRO LANE SINGLETON	Residential	55	50	42.4	39.5	48.5	46.9	6.1	7.4	No	No	No	No
1706	6 CARRINGTON STREET GLENRIDDING	Residential	55	50	50.1	47.3	54.0	52.4	3.9	5.1	Yes	No	No	Yes
1708	3 CARRINGTON STREET GLENRIDDING	Residential	55	50	54.3	51.5	55.3	53.8	1.0	2.3	Yes	No	No	Yes
1709	7 WYNYARD STREET SINGLETON	Residential	55	50	40.0	37.4	46.1	44.5	6.1	7.1	No	No	No	No
1711	9 VICTORIA STREET GLENRIDDING	Residential	55	50	44.1	41.2	48.8	47.3	4.7	6.1	No	No	No	No
1713	7 WYNYARD STREET SINGLETON	Residential	55	50	42.3	39.5	46.5	44.9	4.2	5.4	No	No	No	No
1714	8 VICTORIA STREET GLENRIDDING	Residential	55	50	43.1	40.2	48.8	47.2	5.7	7.0	No	No	No	No
1715	67 BATHURST STREET SINGLETON	Residential	55	50	40.8	38.0	46.1	44.5	5.3	6.5	No	No	No	No
1717	5 WYNYARD STREET SINGLETON	Residential	55	50	41.4	38.7	47.1	45.5	5.7	6.8	No	No	No	No
1719	65 BATHURST STREET SINGLETON	Residential	55	50	41.5	38.6	46.5	44.9	5.0	6.3	No	No	No	No
1721	3 WYNYARD STREET SINGLETON	Residential	55	50	41.1	38.3	47.4	45.9	6.3	7.6	No	No	No	No
1722	7 VICTORIA STREET GLENRIDDING	Residential	55	50	45.1	42.2	49.6	48.1	4.5	5.9	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1723	63 BATHURST STREET SINGLETON	Residential	55	50	41.7	38.9	46.9	45.3	5.2	6.4	No	No	No	No
1724	1 WYNYARD STREET SINGLETON	Residential	55	50	43.3	40.4	48.7	47.2	5.4	6.8	No	No	No	No
1725	8 WYNYARD STREET SINGLETON	Residential	55	50	40.8	38.1	46.2	44.6	5.4	6.5	No	No	No	No
1727	6 VICTORIA STREET GLENRIDDING	Residential	55	50	45.7	42.8	50.0	48.5	4.3	5.7	No	No	No	No
1728	61 BATHURST STREET SINGLETON	Residential	55	50	41.6	38.8	46.6	45.0	5.0	6.2	No	No	No	No
1729	6 WYNYARD STREET SINGLETON	Residential	55	50	41.3	38.4	46.1	44.5	4.8	6.1	No	No	No	No
1730	5 VICTORIA STREET GLENRIDDING	Residential	55	50	45.8	42.9	50.1	48.6	4.3	5.7	No	No	No	No
1731	4 WYNYARD STREET SINGLETON	Residential	55	50	41.8	39.1	47.1	45.6	5.3	6.5	No	No	No	No
1732	59 BATHURST STREET SINGLETON	Residential	55	50	40.6	37.8	45.6	44.0	5.0	6.2	No	No	No	No
1733	4 VICTORIA STREET GLENRIDDING	Residential	55	50	44.2	41.3	49.1	47.5	4.9	6.2	No	No	No	No
1734	2 WYNYARD STREET SINGLETON	Residential	55	50	42.0	39.2	47.5	45.9	5.5	6.7	No	No	No	No
1735	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	48.2	45.3	51.7	50.2	3.5	4.9	No	No	No	No
1738	3 VICTORIA STREET GLENRIDDING	Residential	55	50	46.3	43.5	48.5	46.8	2.2	3.3	No	No	No	No
1739	76 PUTTY ROAD GLENRIDDING	Residential	55	50	43.3	40.4	54.2	52.6	10.9	12.2	Yes	No	Yes	Yes
1740	9 PARK STREET SINGLETON	Residential	55	50	41.3	38.7	46.2	44.6	4.9	5.9	No	No	No	No
1741	5 FREDERICK STREET SINGLETON	Residential	55	50	41.7	38.9	47.3	45.8	5.6	6.9	No	No	No	No
1742	8 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	54.0	51.1	56.4	54.8	2.4	3.7	Yes	Yes	No	Yes
1744	2 VICTORIA STREET GLENRIDDING	Residential	55	50	47.5	44.7	49.8	48.2	2.3	3.5	No	No	No	No
1745	7 PARK STREET SINGLETON	Residential	55	50	40.5	37.9	45.4	43.8	4.9	5.9	No	No	No	No
1746	57 BATHURST STREET SINGLETON	Residential	55	50	41.8	39.2	46.4	44.8	4.6	5.6	No	No	No	No
1747	7 FREDERICK STREET SINGLETON	Residential	55	50	42.1	39.2	46.7	45.1	4.6	5.9	No	No	No	No
1748	5 PARK STREET SINGLETON	Residential	55	50	41.3	38.6	45.8	44.2	4.5	5.6	No	No	No	No
1750	1 VICTORIA STREET GLENRIDDING	Residential	55	50	49.8	46.9	52.0	50.4	2.2	3.5	No	No	No	No
1751	3 PARK STREET SINGLETON	Residential	55	50	38.2	35.5	44.6	43.0	6.4	7.5	No	No	No	No
1752	1 PARK STREET SINGLETON	Residential	55	50	42.4	39.6	47.6	46.0	5.2	6.4	No	No	No	No
1753	9 FREDERICK STREET SINGLETON	Residential	55	50	43.5	40.7	48.0	46.4	4.5	5.7	No	No	No	No
1756	55 BATHURST STREET SINGLETON	Residential	55	50	41.1	38.2	46.4	44.7	5.3	6.5	No	No	No	No
1757	12 PARK STREET SINGLETON	Residential	55	50	41.9	39.3	46.5	44.9	4.6	5.6	No	No	No	No
1758	2 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	52.0	49.2	53.3	51.7	1.3	2.5	Yes	No	No	Yes
1760	53 BATHURST STREET SINGLETON	Residential	55	50	41.3	38.5	46.2	44.6	4.9	6.1	No	No	No	No
1761	10 PARK STREET SINGLETON	Residential	55	50	41.6	39.0	46.2	44.7	4.6	5.7	No	No	No	No
1762	11 FREDERICK STREET SINGLETON	Residential	55	50	43.3	40.5	47.9	46.3	4.6	5.8	No	No	No	No
1763	9 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	59.3	56.5	59.4	57.9	0.1	1.4	Yes	Yes	No	Yes
1764	8 PARK STREET SINGLETON	Residential	55	50	41.7	39.0	46.2	44.6	4.5	5.6	No	No	No	No
1765	44 BATHURST STREET SINGLETON	Residential	55	50	41.1	38.2	45.8	44.1	4.7	5.9	No	No	No	No
1766	6 PARK STREET SINGLETON	Residential	55	50	41.9	39.2	46.6	45.0	4.7	5.8	No	No	No	No
1767	23 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	45.5	42.7	56.4	54.8	10.9	12.1	Yes	Yes	Yes	Yes
1768	51 BATHURST STREET SINGLETON	Residential	55	50	40.2	37.3	45.3	43.7	5.1	6.4	No	No	No	No
1769	4 PARK STREET SINGLETON	Residential	55	50	41.6	38.9	46.6	45.0	5.0	6.1	No	No	No	No
1772	7 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	60.2	57.3	59.5	57.9	-0.7	0.6	No	No	No	No
1773	2 PARK STREET SINGLETON	Residential	55	50	42.7	39.8	47.0	45.4	4.3	5.6	No	No	No	No
1774	25 HARRIETT STREET SINGLETON	Residential	55	50	41.7	39.0	46.0	44.4	4.3	5.4	No	No	No	No
1776	23 HARRIETT STREET SINGLETON	Residential	55	50	41.4	38.7	46.2	44.6	4.8	5.9	No	No	No	No
1777	49 BATHURST STREET SINGLETON	Residential	55	50	41.6	39.0	45.7	44.1	4.1	5.1	No	No	No	No
1778	44 BATHURST STREET SINGLETON	Residential	55	50	41.6	38.9	45.8	44.2	4.2	5.3	No	No	No	No
1780	2 WALTER STREET SINGLETON	Residential	55	50	48.3	45.5	51.4	49.8	3.1	4.3	No	No	No	No
1782	21 HARRIETT STREET SINGLETON	Residential	55	50	41.3	38.6	46.1	44.5	4.8	5.9	No	No	No	No
1783	13A FREDERICK STREET SINGLETON	Residential	55	50	42.9	40.1	47.3	45.7	4.4	5.6	No	No	No	No
1784	30 HARRIETT STREET SINGLETON	Residential	55	50	41.6	39.0	45.9	44.3	4.3	5.3	No	No	No	No
1786	19 HARRIETT STREET SINGLETON	Residential	55	50	41.5	38.8	46.4	44.8	4.9	6.0	No	No	No	No
1788	28 HARRIETT STREET SINGLETON	Residential	55	50	41.2	38.5	45.7	44.1	4.5	5.6	No	No	No	No
1790	32 BATHURST STREET SINGLETON	Residential	55	50	42.0	39.2	45.6	43.9	3.6	4.7	No	No	No	No
1791	17 HARRIETT STREET SINGLETON	Residential	55	50	40.5	37.8	45.5	43.9	5.0	6.1	No	No	No	No
1792	26 HARRIETT STREET SINGLETON	Residential	55	50	40.7	38.0	45.5	43.9	4.8	5.9	No	No	No	No
1793	47 BATHURST STREET SINGLETON	Residential	55	50	40.4	37.6	45.6	44.0	5.2	6.4	No	No	No	No
1794	3 DUDDING STREET SINGLETON	Residential	55	50	45.8	42.9	49.3	47.7	3.5	4.8	No	No	No	No
1795	7 DUDDING STREET SINGLETON	Residential	55	50	44.8	42.0	48.8	47.2	4.0	5.2	No	No	No	No
1796	5 GLENRIDDING ROAD GLENRIDDING	Residential	55	50	59.3	56.4	57.8	56.3	-1.5	-0.1	No	No	No	No
1797	6 DUDDING STREET SINGLETON	Residential	55	50	42.2	39.4	46.8	45.2	4.6	5.8	No	No	No	No
1798	15 HARRIETT STREET SINGLETON	Residential	55	50	42.9	40.1	47.2	45.5	4.3	5.4	No	No	No	No
1799	1 DUDDING STREET SINGLETON	Residential	55	50	46.3	43.5	49.7	48.1	3.4	4.6	No	No	No	No
1800	5 DUDDING STREET SINGLETON	Residential	55	50	45.4	42.6	49.1	47.5	3.7	4.9	No	No	No	No
1801	4 DUDDING STREET SINGLETON	Residential	55	50	42.1	39.3	46.5	44.9	4.4	5.6	No	No	No	No
1802	24 HARRIETT STREET SINGLETON	Residential	55	50	41.8	39.0	46.3	44.7	4.5	5.7	No	No	No	No
1803	26 HARRIETT STREET SINGLETON	Residential	55	50	41.1	38.2	45.4	43.7	4.3	5.5	No	No	No	No
1805	22 HARRIETT STREET SINGLETON	Residential	55	50	42.1	39.4	46.5	44.9	4.4	5.5	No	No	No	No
1806	45 BATHURST STREET SINGLETON	Residential	55	50	41.0	38.1	46.0	44.3	5.0	6.2	No	No	No	No
1808	4A DUDDING STREET SINGLETON	Residential	55	50	42.8	40.0	47.0	45.3	4.2	5.3	No	No	No	No
1809	20 HARRIETT STREET SINGLETON	Residential	55	50	42.0	39.3	46.5	44.8	4.5	5.5	No	No	No	No
1810	26 HARRIETT STREET SINGLETON	Residential	55	50	42.0	39.2	46.6	45.0	4.6	5.8	No	No	No	No
1811	43 BATHURST STREET SINGLETON	Residential	55	50	40.9	38.0	45.7	44.1	4.8	6.1	No	No	No	No
1812	2 DUDDING STREET SINGLETON	Residential	55	50	43.9	41.1	47.6	46.0	3.7	4.9	No	No	No	No
1813	3 LESLEY STREET SINGLETON	Residential	55	50	45.4	42.6	48.1	46.5	2.7	3.9	No	No	No	No
1814	2A DUDDING STREET SINGLETON	Residential	55	50	44.3	41.4	47.8	46.2	3.5	4.8	No	No	No	No
1815	11 HARRIETT STREET SINGLETON	Residential	55	50	42.9	40.2	46.9	45.3	4.0	5.1	No	No	No	No
1816	13 HARRIETT STREET SINGLETON	Residential	55	50	42.1	39.3	46.3	44.7	4.2	5.4	No	No	No	No
1817	16 HARRIETT STREET SINGLETON	Residential	55	50	42.4	39.7	46.5	44.9	4.1	5.2	No	No	No	No
1818	18 HARRIETT STREET SINGLETON	Residential	55	50	41.2	38.5	45.5	43.9	4.3	5.4	No	No	No	No
1819	41 BATHURST STREET SINGLETON	Residential	55	50	40.3	37.7	44.3	42.6	4.0	4.9	No	No	No	No
1820	29 ARGYLE STREET SINGLETON	Residential	55	50	41.2	38.5	44.4	42.7	3.2	4.2	No	No	No	No
1821	9 HARRIETT STREET SINGLETON	Residential	55	50	44.6	41.7	47.9	46.2	3.3	4.5	No	No	No	No
1822	1 LESLEY STREET SINGLETON	Residential	55	50	44.4	41.6	47.3	45.7	2.9	4.1	No	No	No	No
1823	7 HARRIETT STREET SINGLETON	Residential	55	50	44.1	41.2	47.8	46.1	3.7	4.9	No	No	No	No
1824	8 FREDERICK STREET SINGLETON	Residential	55	50	43.0	40.2	46.9	45.3	3.9	5.1	No	No	No	No
1825	25 ARGYLE STREET SINGLETON	Residential	55	50	41.9	39.2	46.1	44.5	4.2	5.3	No	No	No	No
1826	27 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.9	45.0	43.2	3.4	4.3	No	No	No	No
1827	5 HARRIETT STREET SINGLETON	Residential	55	50	42.9	40.1	46.8	45.2	3.9	5.1	No	No	No	No
1828	10 FREDERICK STREET SINGLETON	Residential	55	50	43.4	40.5	47.2	45.6	3.8	5.1	No	No	No	No
1829	12 HARRIETT STREET SINGLETON	Residential	55	50	43.2	40.4	47.1	45.5	3.9	5.1	No	No	No	No
1830	32 ARGYLE STREET SINGLETON	Residential	55	50	41.6	39.0	45.1	43.5	3.5	4.5	No	No	No	No
1831	23 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.9	45.9	44.3	4.3	5.4	No	No	No	No
1832	15 FREDERICK STREET SINGLETON	Residential	55	50	41.7	38.9	45.7	44.1	4.0	5.2	No	No	No	No
1834	3 HARRIETT STREET SINGLETON	Residential	55	50	42.7	39.8	46.3	44.7	3.6	4.9	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1835	10 HARRIETT STREET SINGLETON	Residential	55	50	44.1	41.3	47.6	45.9	3.5	4.6	No	No	No	No
1836	30 ARGYLE STREET SINGLETON	Residential	55	50	41.3	38.7	45.5	43.9	4.2	5.2	No	No	No	No
1837	1 HARRIETT STREET SINGLETON	Residential	55	50	43.7	40.9	45.6	43.9	1.9	3.0	No	No	No	No
1838	28 ARGYLE STREET SINGLETON	Residential	55	50	40.8	38.1	45.3	43.7	4.5	5.6	No	No	No	No
1839	21 ARGYLE STREET SINGLETON	Residential	55	50	39.9	37.1	45.3	43.6	5.4	6.5	No	No	No	No
1841	12 FREDERICK STREET SINGLETON	Residential	55	50	44.3	41.4	47.9	46.3	3.6	4.9	No	No	No	No
1842	8 HARRIETT STREET SINGLETON	Residential	55	50	44.4	41.6	47.7	46.1	3.3	4.5	No	No	No	No
1843	19 ARGYLE STREET SINGLETON	Residential	55	50	42.2	39.4	45.3	43.6	3.1	4.2	No	No	No	No
1844	24 ARGYLE STREET SINGLETON	Residential	55	50	41.4	38.7	46.0	44.4	4.6	5.7	No	No	No	No
1845	26 ARGYLE STREET SINGLETON	Residential	55	50	41.3	38.6	45.7	44.1	4.4	5.5	No	No	No	No
1846	17 ARGYLE STREET SINGLETON	Residential	55	50	41.7	39.0	45.8	44.1	4.1	5.1	No	No	No	No
1847	15 ARGYLE STREET SINGLETON	Residential	55	50	43.5	40.6	47.1	45.5	3.6	4.9	No	No	No	No
1848	14 FREDERICK STREET SINGLETON	Residential	55	50	44.3	41.5	47.9	46.2	3.6	4.7	No	No	No	No
1849	6 HARRIETT STREET SINGLETON	Residential	55	50	44.7	41.8	47.9	46.3	3.2	4.5	No	No	No	No
1850	4 HARRIETT STREET SINGLETON	Residential	55	50	43.9	41.1	47.3	45.7	3.4	4.6	No	No	No	No
1851	22 ARGYLE STREET SINGLETON	Residential	55	50	42.6	39.7	46.2	44.6	3.6	4.9	No	No	No	No
1853	13 ARGYLE STREET SINGLETON	Residential	55	50	41.6	38.9	45.3	43.7	3.7	4.8	No	No	No	No
1854	20 ARGYLE STREET SINGLETON	Residential	55	50	42.0	39.2	46.2	44.6	4.2	5.4	No	No	No	No
1856	9 ARGYLE STREET SINGLETON	Residential	55	50	45.0	42.2	48.3	46.7	3.3	4.5	No	No	No	No
1857	11 ARGYLE STREET SINGLETON	Residential	55	50	43.3	40.5	46.9	45.2	3.6	4.7	No	No	No	No
1858	18 ARGYLE STREET SINGLETON	Residential	55	50	42.0	39.3	46.3	44.6	4.3	5.3	No	No	No	No
1859	16 ARGYLE STREET SINGLETON	Residential	55	50	43.7	40.8	46.8	45.1	3.1	4.3	No	No	No	No
1861	7 ARGYLE STREET SINGLETON	Residential	55	50	45.6	42.8	48.7	47.1	3.1	4.3	No	No	No	No
1862	25 GAS STREET SINGLETON	Residential	55	50	42.8	40.1	46.4	44.7	3.6	4.6	No	No	No	No
1864	14 ARGYLE STREET SINGLETON	Residential	55	50	42.5	39.7	46.6	44.9	4.1	5.2	No	No	No	No
1865	5 ARGYLE STREET SINGLETON	Residential	55	50	46.4	43.6	49.1	47.5	2.7	3.9	No	No	No	No
1866	16 ARGYLE STREET SINGLETON	Residential	55	50	43.2	40.3	46.6	45.0	3.4	4.7	No	No	No	No
1867	12 ARGYLE STREET SINGLETON	Residential	55	50	42.7	40.0	46.6	44.9	3.9	4.9	No	No	No	No
1869	3 ARGYLE STREET SINGLETON	Residential	55	50	48.2	45.3	49.5	47.9	1.3	2.6	No	No	No	No
1870	19 GAS STREET SINGLETON	Residential	55	50	42.1	39.4	45.9	44.3	3.8	4.9	No	No	No	No
1871	21 GAS STREET SINGLETON	Residential	55	50	44.7	41.9	45.3	43.6	0.6	1.7	No	No	No	No
1873	10 ARGYLE STREET SINGLETON	Residential	55	50	42.5	39.7	46.4	44.8	3.9	5.1	No	No	No	No
1874	8 ARGYLE STREET SINGLETON	Residential	55	50	43.2	40.4	46.7	45.1	3.5	4.7	No	No	No	No
1875	17 FREDERICK STREET SINGLETON	Residential	55	50	44.1	41.2	46.9	45.2	2.8	4.0	No	No	No	No
1876	17 GAS STREET SINGLETON	Residential	55	50	40.1	37.3	44.9	43.2	4.8	5.9	No	No	No	No
1881	6 ARGYLE STREET SINGLETON	Residential	55	50	43.7	40.9	46.8	45.2	3.1	4.3	No	No	No	No
1882	4 ARGYLE STREET SINGLETON	Residential	55	50	45.1	42.2	47.7	46.1	2.6	3.9	No	No	No	No
1884	15 GAS STREET SINGLETON	Residential	55	50	42.0	39.3	46.0	44.4	4.0	5.1	No	No	No	No
1885	22-26 JOHN STREET SINGLETON	Residential	55	50	60.7	57.8	59.0	57.4	-1.7	-0.4	No	No	No	No
1886	2 ARGYLE STREET SINGLETON	Residential	55	50	46.2	43.3	48.5	46.8	2.3	3.5	No	No	No	No
1887	12A GAS STREET SINGLETON	Residential	55	50	45.9	43.0	46.8	45.1	0.9	2.1	No	No	No	No
1888	13 GAS STREET SINGLETON	Residential	55	50	41.7	38.9	46.0	44.4	4.3	5.5	No	No	No	No
1889	28 JOHN STREET SINGLETON	Residential	55	50	59.5	56.6	57.9	56.3	-1.6	-0.3	No	No	No	No
1890	7 MARY STREET SINGLETON	Residential	55	50	62.1	59.3	59.8	58.3	-2.3	-1.0	No	No	No	No
1891	11 GAS STREET SINGLETON	Residential	55	50	44.8	42.0	46.7	45.1	1.9	3.1	No	No	No	No
1892	9 MARY STREET SINGLETON	Residential	55	50	56.5	53.7	55.9	54.4	-0.6	0.7	No	No	No	No
1895	10 GAS STREET SINGLETON	Residential	55	50	42.1	39.4	45.7	44.1	3.6	4.7	No	No	No	No
1896	11 MARY STREET SINGLETON	Residential	55	50	53.1	50.2	54.1	52.5	1.0	2.3	Yes	No	No	Yes
1897	8 GAS STREET SINGLETON	Residential	55	50	42.4	39.6	45.8	44.2	3.4	4.6	No	No	No	No
1898	9 GAS STREET SINGLETON	Residential	55	50	47.7	44.8	47.6	45.9	-0.1	1.1	No	No	No	No
1899	30 JOHN STREET SINGLETON	Residential	55	50	66.3	63.5	64.2	62.7	-2.1	-0.8	No	No	No	No
1900	13 MARY STREET SINGLETON	Residential	55	50	51.7	48.8	53.7	52.1	2.0	3.3	Yes	No	Yes	Yes
1900	13 MARY STREET SINGLETON*	Residential	55	50	38.7	35.8	50.4	48.7	11.7	12.9				
1901	7 GAS STREET SINGLETON	Residential	55	50	46.6	43.7	47.4	45.7	0.8	2.0	No	No	No	No
1902	6 GAS STREET SINGLETON	Residential	55	50	46.3	43.4	48.1	46.5	1.8	3.1	No	No	No	No
1906	9 RYAN AVENUE SINGLETON	Residential	55	50	61.8	59.0	59.7	58.2	-2.1	-0.8	No	No	No	No
1910	11 RYAN AVENUE SINGLETON	Residential	55	50	55.4	52.5	54.2	52.6	-1.2	0.1	No	No	No	No
1913	53 JOHN STREET SINGLETON	Residential	55	50	50.3	47.5	49.4	47.7	-0.9	0.2	No	No	No	No
1914	2 RYAN AVENUE SINGLETON	Residential	55	50	60.0	57.1	57.9	56.4	-2.1	-0.7	No	No	No	No
1917	4 RYAN AVENUE SINGLETON	Residential	55	50	54.2	51.3	53.7	52.1	-0.5	0.8	No	No	No	No
1918	6 RYAN AVENUE SINGLETON	Residential	55	50	51.4	48.6	52.1	50.5	0.7	1.9	Yes	No	No	No
1919	59 JOHN STREET SINGLETON	Residential	55	50	52.5	49.7	51.3	49.7	-1.2	0.0	No	No	No	No
1920	59 JOHN STREET SINGLETON	Residential	55	50	68.3	65.4	66.3	64.8	-2.0	-0.6	No	No	No	No
1931	48 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.9	38.0	56.6	54.9	15.7	16.9	Yes	Yes	Yes	Yes
1932	2 NOBLE CLOSE DARLINGTON	Residential	55	50	41.2	38.1	56.6	55.0	15.4	16.9	Yes	Yes	Yes	Yes
1933	3 NOBLE CLOSE DARLINGTON	Residential	55	50	44.4	41.1	58.1	56.4	13.7	15.3	Yes	Yes	Yes	Yes
1934	46 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.4	38.5	52.9	51.3	11.5	12.8	Yes	No	Yes	Yes
1935	4 NOBLE CLOSE DARLINGTON	Residential	55	50	46.8	43.1	55.4	53.7	8.6	10.6	Yes	No	Yes	Yes
1935	4 NOBLE CLOSE DARLINGTON*	Residential	55	50	39.5	36.5	52.7	51.0	13.2	14.5				
1936	6 NOBLE CLOSE DARLINGTON	Residential	55	50	44.0	40.7	51.9	50.2	7.9	9.5	No	No	Yes	Yes
1936	6 NOBLE CLOSE DARLINGTON*	Residential	55	50	40.5	37.5	51.6	49.9	11.1	12.4				
1937	5 NOBLE CLOSE DARLINGTON	Residential	55	50	46.6	42.8	54.1	52.4	7.5	9.6	Yes	No	Yes	Yes
1937	5 NOBLE CLOSE DARLINGTON*	Residential	55	50	39.9	36.8	52.4	50.7	12.5	13.9				
1938	44 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.1	37.3	51.4	49.8	11.3	12.5	No	No	Yes	Yes
1940	3 SEVER CLOSE DARLINGTON	Residential	55	50	42.3	39.1	51.5	49.8	9.2	10.7	No	No	Yes	Yes
1940	3 SEVER CLOSE DARLINGTON*	Residential	55	50	38.5	35.4	51.1	49.4	12.6	14.0				
1941	2 SEVER CLOSE DARLINGTON	Residential	55	50	45.9	42.3	51.1	49.4	5.2	7.1	No	No	Yes	Yes
1941	2 SEVER CLOSE DARLINGTON*	Residential	55	50	38.2	35.0	49.5	47.8	11.3	12.8				
1942	4 SEVER CLOSE DARLINGTON	Residential	55	50	46.4	42.6	54.1	52.4	7.7	9.8	Yes	No	Yes	Yes
1942	4 SEVER CLOSE DARLINGTON*	Residential	55	50	40.1	37.1	50.8	49.1	10.7	12.0				
1943	40 SIMPSON TERRACE DARLINGTON	Residential	55	50	39.7	36.9	50.8	49.1	11.1	12.2	No	No	Yes	Yes
1944	5 SEVER CLOSE DARLINGTON	Residential	55	50	46.2	42.5	53.5	51.8	7.3	9.3	Yes	No	Yes	Yes
1944	5 SEVER CLOSE DARLINGTON*	Residential	55	50	38.2	35.1	50.7	49.0	12.5	13.9				
1945	7 SEVER CLOSE DARLINGTON	Residential	55	50	45.7	42.1	51.0	49.3	5.3	7.2	No	No	No	No
1946	8 SEVER CLOSE DARLINGTON	Residential	55	50	46.3	42.6	50.7	48.9	4.4	6.3	No	No	No	No
1947	6 SEVER CLOSE DARLINGTON	Residential	55	50	46.0	42.2	51.6	49.9	5.6	7.7	No	No	Yes	Yes
1947	6 SEVER CLOSE DARLINGTON*	Residential	55	50	38.4	35.3	49.2	47.5	10.8	12.2				
1948	38 SIMPSON TERRACE DARLINGTON	Residential	55	50	46.3	43.4	49.3	47.5	3.0	4.1	No	No	No	No
1949	36 SIMPSON TERRACE DARLINGTON	Residential	55	50	46.7	43.8	50.6	48.9	3.9	5.1	No	No	No	No
1950	3 BUTTON CLOSE DARLINGTON	Residential	55	50	42.2	39.0	48.2	46.5	6.0	7.5	No	No	Yes	Yes
1950	3 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.7	32.6	47.3	45.6	11.6	13.0				
1951	2 BUTTON CLOSE DARLINGTON	Residential	55	50	40.1	37.1	50.0	48.4	9.9	11.3	No	No	Yes	Yes
1951	2 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.4	32.3	47.6	46.0	12.2	13.7				

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
1952	4 BUTTON CLOSE DARLINGTON	Residential	55	50	41.3	38.1	49.4	47.7	8.1	9.6	No	No	Yes	Yes
1952	4 BUTTON CLOSE DARLINGTON*	Residential	55	50	38.1	34.9	49.2	47.5	11.1	12.6				
1953	5 BUTTON CLOSE DARLINGTON	Residential	55	50	42.3	39.0	49.7	48.0	7.4	9.0	No	No	No	No
1954	34 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.8	37.8	47.0	45.2	6.2	7.4	No	No	No	No
1955	9 BUTTON CLOSE DARLINGTON	Residential	55	50	40.4	37.3	49.2	47.5	8.8	10.2	No	No	Yes	Yes
1955	9 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.4	32.3	46.7	45.0	11.3	12.7				
1956	29 SIMPSON TERRACE DARLINGTON	Residential	55	50	40.9	37.7	47.5	45.7	6.6	8.0	No	No	No	No
1957	6 BUTTON CLOSE DARLINGTON	Residential	55	50	46.0	42.4	52.1	50.4	6.1	8.0	No	No	Yes	Yes
1957	6 BUTTON CLOSE DARLINGTON*	Residential	55	50	36.0	32.9	48.8	47.1	12.8	14.2				
1958	8 BUTTON CLOSE DARLINGTON	Residential	55	50	43.0	39.8	49.4	47.6	6.4	7.8	No	No	Yes	Yes
1958	8 BUTTON CLOSE DARLINGTON*	Residential	55	50	35.7	32.6	47.2	45.5	11.5	12.9				
1959	7 BUTTON CLOSE DARLINGTON	Residential	55	50	46.0	42.4	51.4	49.6	5.4	7.2	No	No	Yes	Yes
1959	7 BUTTON CLOSE DARLINGTON*	Residential	55	50	36.1	33.0	47.1	45.4	11.0	12.4				
1960	32 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.2	38.0	47.6	45.8	6.4	7.8	No	No	No	No
1961	11 GRAINGER CRESCENT DARLINGTON	Residential	55	50	43.7	40.5	50.5	48.7	6.8	8.2	No	No	No	No
1963	27 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.0	38.8	47.6	45.8	5.6	7.0	No	No	No	No
1964	30 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.7	38.6	47.5	45.7	5.8	7.1	No	No	No	No
1965	9 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.9	46.0	50.2	48.3	1.3	2.3	No	No	No	No
1966	7 ELLIOT CLOSE DARLINGTON	Residential	55	50	41.6	38.4	49.0	47.3	7.4	8.9	No	No	No	No
1968	8 ELLIOT CLOSE DARLINGTON	Residential	55	50	38.8	35.7	50.5	48.8	11.7	13.1	No	No	Yes	Yes
1969	25 SIMPSON TERRACE DARLINGTON	Residential	55	50	47.6	44.6	48.1	46.2	0.5	1.6	No	No	No	No
1970	6 ELLIOT CLOSE DARLINGTON	Residential	55	50	43.4	40.3	48.9	47.1	5.5	6.8	No	No	No	No
1971	28 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.8	38.7	47.1	45.3	5.3	6.6	No	No	No	No
1972	5 ELLIOT CLOSE DARLINGTON	Residential	55	50	42.3	39.1	48.9	47.2	6.6	8.1	No	No	No	No
1973	26 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.4	39.2	47.2	45.4	4.8	6.2	No	No	No	No
1974	9 ELLIOT CLOSE DARLINGTON	Residential	55	50	46.1	42.6	52.5	50.7	6.4	8.1	Yes	No	No	Yes
1975	36 GRAINGER CRESCENT DARLINGTON	Residential	55	50	42.3	39.3	47.8	46.1	5.5	6.8	No	No	No	No
1976	24 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.0	38.9	47.6	45.8	5.6	6.9	No	No	No	No
1977	23 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.0	40.8	48.7	46.9	4.7	6.1	No	No	No	No
1978	10 ELLIOT CLOSE DARLINGTON	Residential	55	50	46.4	42.9	52.1	50.4	5.7	7.5	No	No	No	No
1979	4 ELLIOT CLOSE DARLINGTON	Residential	55	50	44.4	41.1	49.5	47.8	5.1	6.7	No	No	No	No
1980	34 GRAINGER CRESCENT DARLINGTON	Residential	55	50	49.2	46.3	48.5	46.6	-0.7	0.3	No	No	No	No
1981	32 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.4	47.5	49.7	47.7	-0.7	0.2	No	No	No	No
1982	11 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.2	43.7	52.5	50.8	5.3	7.1	Yes	No	No	Yes
1983	3 ELLIOT CLOSE DARLINGTON	Residential	55	50	43.9	40.5	49.2	47.5	5.3	7.0	No	No	No	No
1984	22 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.3	39.2	47.8	46.0	5.5	6.8	No	No	No	No
1985	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.9	48.0	49.6	47.6	-1.3	-0.4	No	No	No	No
1986	30 GRAINGER CRESCENT DARLINGTON	Residential	55	50	48.1	45.2	48.3	46.4	0.2	1.2	No	No	No	No
1987	21 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.2	40.1	48.9	47.2	5.7	7.1	No	No	No	No
1988	12 ELLIOT CLOSE DARLINGTON	Residential	55	50	47.9	44.4	52.6	50.9	4.7	6.5	Yes	No	Yes	Yes
1988	12 ELLIOT CLOSE DARLINGTON*	Residential	55	50	40.3	37.3	51.4	49.8	11.1	12.5				
1989	2 ELLIOT CLOSE DARLINGTON	Residential	55	50	45.0	41.8	49.6	47.8	4.6	6.0	No	No	No	No
1990	20 SIMPSON TERRACE DARLINGTON	Residential	55	50	41.0	37.9	47.6	45.8	6.6	7.9	No	No	No	No
1991	28 GRAINGER CRESCENT DARLINGTON	Residential	55	50	51.2	48.3	50.2	48.2	-1.0	-0.1	No	No	No	No
1992	4 HALLETT PLACE DARLINGTON	Residential	55	50	42.0	38.9	47.7	45.9	5.7	7.0	No	No	No	No
1993	18 SIMPSON TERRACE DARLINGTON	Residential	55	50	42.3	39.3	47.7	46.0	5.4	6.7	No	No	No	No
1994	3 HALLETT PLACE DARLINGTON	Residential	55	50	44.8	41.7	47.5	45.6	2.7	3.9	No	No	No	No
1995	13 ELLIOT CLOSE DARLINGTON	Residential	55	50	48.3	44.7	52.3	50.5	4.0	5.8	Yes	No	No	Yes
1996	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.9	41.7	49.6	47.8	4.7	6.1	No	No	No	No
1997	5 HALLETT PLACE DARLINGTON	Residential	55	50	44.9	41.7	48.1	46.2	3.2	4.5	No	No	No	No
1998	19 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.2	41.1	48.7	46.9	4.5	5.8	No	No	No	No
1999	16 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.7	46.4	51.4	49.5	1.7	3.1	No	No	No	No
2000	2 HALLETT PLACE DARLINGTON	Residential	55	50	49.7	46.8	48.4	46.4	-1.3	-0.4	No	No	No	No
2001	17 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.5	40.5	48.6	46.8	5.1	6.3	No	No	No	No
2002	26 GRAINGER CRESCENT DARLINGTON	Residential	55	50	50.5	47.6	49.4	47.4	-1.1	-0.2	No	No	No	No
2003	14 ELLIOT CLOSE DARLINGTON	Residential	55	50	50.7	47.2	54.2	52.4	3.5	5.2	Yes	No	No	Yes
2004	15 SIMPSON TERRACE DARLINGTON	Residential	55	50	43.0	39.9	48.3	46.5	5.3	6.6	No	No	No	No
2005	7 GRAINGER CRESCENT DARLINGTON	Residential	55	50	54.9	52.0	51.9	49.7	-3.0	-2.3	No	No	No	No
2006	6 HALLETT PLACE DARLINGTON	Residential	55	50	44.0	40.9	48.2	46.4	4.2	5.5	No	No	No	No
2007	15 ELLIOT CLOSE DARLINGTON	Residential	55	50	49.5	45.9	52.5	50.7	3.0	4.8	Yes	No	No	Yes
2008	7 HALLETT PLACE DARLINGTON	Residential	55	50	47.3	44.0	47.8	45.9	0.5	1.9	No	No	No	No
2009	24 GRAINGER CRESCENT DARLINGTON	Residential	55	50	49.1	46.1	48.7	46.8	-0.4	0.7	No	No	No	No
2010	17 HALLETT PLACE DARLINGTON	Residential	55	50	46.7	43.6	47.3	45.3	0.6	1.7	No	No	No	No
2011	13 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.5	41.5	48.8	46.9	4.3	5.4	No	No	No	No
2012	7 MILLARD CLOSE DARLINGTON	Residential	55	50	45.5	42.3	48.8	46.9	3.3	4.6	No	No	No	No
2013	14 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.2	45.7	52.1	50.3	2.9	4.6	No	No	No	No
2014	5 GRAINGER CRESCENT DARLINGTON	Residential	55	50	61.1	58.2	57.4	55.2	-3.7	-3.0	No	No	No	No
2015	11 SIMPSON TERRACE DARLINGTON	Residential	55	50	44.6	41.5	48.7	46.9	4.1	5.4	No	No	No	No
2016	22 GRAINGER CRESCENT DARLINGTON	Residential	55	50	54.1	51.2	50.9	48.7	-3.2	-2.5	No	No	No	No
2017	8 HALLETT PLACE DARLINGTON	Residential	55	50	48.5	45.2	48.3	46.4	-0.2	1.2	No	No	No	No
2018	16 HALLETT PLACE DARLINGTON	Residential	55	50	47.4	44.1	48.0	46.0	0.6	1.9	No	No	No	No
2019	6 MILLARD CLOSE DARLINGTON	Residential	55	50	46.8	43.7	47.9	45.9	1.1	2.2	No	No	No	No
2020	8 MILLARD CLOSE DARLINGTON	Residential	55	50	44.8	41.7	48.7	46.9	3.9	5.2	No	No	No	No
2021	12 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.8	42.7	51.2	49.3	5.4	6.6	No	No	No	No
2022	9 HALLETT PLACE DARLINGTON	Residential	55	50	48.9	45.5	48.8	46.8	-0.1	1.3	No	No	No	No
2023	9 SIMPSON TERRACE DARLINGTON	Residential	55	50	45.7	42.4	49.6	47.8	3.9	5.4	No	No	No	No
2024	15 HALLETT PLACE DARLINGTON	Residential	55	50	48.2	45.0	48.5	46.5	0.3	1.5	No	No	No	No
2025	20 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.8	53.9	53.2	51.0	-3.6	-2.9	No	No	No	No
2026	9 MILLARD CLOSE DARLINGTON	Residential	55	50	48.8	45.2	49.6	47.7	0.8	2.5	No	No	No	No
2028	5 MILLARD CLOSE DARLINGTON	Residential	55	50	47.7	44.4	48.9	47.0	1.2	2.6	No	No	No	No
2029	10 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.2	44.8	51.9	50.0	3.7	5.2	No	No	No	No
2030	10 MILLARD CLOSE DARLINGTON	Residential	55	50	48.2	44.7	49.4	47.5	1.2	2.8	No	No	No	No
2031	10 HALLETT PLACE DARLINGTON	Residential	55	50	49.1	45.8	49.2	47.3	0.1	1.5	No	No	No	No
2032	7 SIMPSON TERRACE DARLINGTON	Residential	55	50	48.6	45.2	50.3	48.4	1.7	3.2	No	No	No	No
2033	8 SIMPSON TERRACE DARLINGTON	Residential	55	50	49.7	46.0	52.3	50.4	2.6	4.4	No	No	No	No
2034	18 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.1	55.2	54.5	52.3	-3.6	-2.9	No	No	No	No
2035	14 HALLETT PLACE DARLINGTON	Residential	55	50	49.4	46.2	49.2	47.2	-0.2	1.0	No	No	No	No
2036	4 MILLARD CLOSE DARLINGTON	Residential	55	50	51.2	47.9	49.5	47.4	-1.7	-0.5	No	No	No	No
2037	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.4	47.0	50.6	48.7	0.2	1.7	No	No	No	No
2038	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.0	46.8	52.4	50.4	2.4	3.6	No	No	No	No
2039	11 MILLARD CLOSE DARLINGTON	Residential	55	50	48.8	45.6	49.6	47.6	0.8	2.0	No	No	No	No
2040	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.5	49.1	54.2	52.3	1.7	3.2	Yes	No	No	Yes
2041	13 HALLETT PLACE DARLINGTON	Residential	55	50	51.8	48.7	49.6	47.5	-2.2	-1.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2042	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.7	49.2	54.3	52.4	1.6	3.2	Yes	No	No	Yes
2043	3 MILLARD CLOSE DARLINGTON	Residential	55	50	53.4	50.1	51.0	48.9	-2.4	-1.2	No	No	No	No
2044	11 HALLETT PLACE DARLINGTON	Residential	55	50	51.3	48.2	49.8	47.7	-1.5	-0.5	No	No	No	No
2045	16 GRAINGER CRESCENT DARLINGTON	Residential	55	50	58.7	55.8	55.1	52.9	-3.6	-2.9	No	No	No	No
2046	12 MILLARD CLOSE DARLINGTON	Residential	55	50	49.8	46.4	49.2	47.2	-0.6	0.8	No	No	No	No
2047	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.7	49.3	54.4	52.5	1.7	3.2	Yes	No	No	Yes
2048	12 HALLETT PLACE DARLINGTON	Residential	55	50	51.9	48.8	49.9	47.8	-2.0	-1.0	No	No	No	No
2049	2 MILLARD CLOSE DARLINGTON	Residential	55	50	54.1	50.9	51.6	49.5	-2.5	-1.4	No	No	No	No
2050	5 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.0	48.6	51.0	49.0	-1.0	0.4	No	No	No	No
2051	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	52.8	49.4	54.3	52.4	1.5	3.0	Yes	No	No	Yes
2052	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.2	47.0	51.9	49.9	1.7	2.9	No	No	No	No
2053	13 MILLARD CLOSE DARLINGTON	Residential	55	50	51.6	48.5	49.8	47.7	-1.8	-0.8	No	No	No	No
2054	6 SOLMAN LANE DARLINGTON	Residential	55	50	49.1	45.9	51.2	49.2	2.1	3.3	No	No	No	No
2055	14 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.0	57.1	56.4	54.2	-3.6	-2.9	No	No	No	No
2056	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.1	49.7	54.4	52.5	1.3	2.8	Yes	No	No	Yes
2058	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.0	49.6	54.3	52.4	1.3	2.8	Yes	No	No	Yes
2059	14 MILLARD CLOSE DARLINGTON	Residential	55	50	52.1	48.8	50.7	48.6	-1.4	-0.2	No	No	No	No
2060	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	52.9	49.6	51.6	49.6	-1.3	0.0	No	No	No	No
2061	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.2	49.7	54.3	52.4	1.1	2.7	Yes	No	No	Yes
2062	8 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.7	54.7	54.4	52.3	-3.3	-2.4	No	No	No	No
2063	1 MILLARD CLOSE DARLINGTON	Residential	55	50	57.2	54.2	54.2	52.1	-3.0	-2.1	No	No	No	No
2064	4 SOLMAN LANE DARLINGTON	Residential	55	50	49.8	46.7	51.5	49.6	1.7	2.9	No	No	No	No
2065	12 GRAINGER CRESCENT DARLINGTON	Residential	55	50	60.7	57.8	57.1	54.9	-3.6	-2.9	No	No	No	No
2066	6 SIMPSON TERRACE DARLINGTON	Residential	55	50	50.3	47.2	52.2	50.2	1.9	3.0	No	No	No	No
2067	10 GRAINGER CRESCENT DARLINGTON	Residential	55	50	59.4	56.4	56.0	53.8	-3.4	-2.6	No	No	No	No
2068	15 MILLARD CLOSE DARLINGTON	Residential	55	50	56.7	53.6	53.6	51.5	-3.1	-2.1	No	No	No	No
2069	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.7	53.6	53.6	51.5	-3.1	-2.1	No	No	No	No
2070	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	56.9	53.8	53.8	51.6	-3.1	-2.2	No	No	No	No
2071	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	62.3	59.5	58.8	56.5	-3.5	-3.0	No	No	No	No
2072	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.7	50.4	54.5	52.5	0.8	2.1	Yes	No	No	Yes
2073	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.4	54.3	54.5	52.4	-2.9	-1.9	No	No	No	No
2074	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.3	54.2	54.3	52.1	-3.0	-2.1	No	No	No	No
2075	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.2	54.1	54.1	52.0	-3.1	-2.1	No	No	No	No
2076	2 GRAINGER CRESCENT DARLINGTON	Residential	55	50	57.2	54.1	54.3	52.1	-2.9	-2.0	No	No	No	No
2077	4 ALLEN COURT DARLINGTON	Residential	55	50	53.6	50.3	52.4	50.4	-1.2	0.1	No	No	No	No
2078	3 ALLEN COURT DARLINGTON	Residential	55	50	54.2	50.9	52.4	50.4	-1.8	-0.5	No	No	No	No
2081	5 ALLEN COURT DARLINGTON	Residential	55	50	52.0	49.0	52.0	49.9	0.0	0.9	No	No	No	No
2082	106A LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	60.4	57.4	57.0	54.8	-3.4	-2.6	No	No	No	No
2083	6 ALLEN COURT DARLINGTON	Residential	55	50	55.0	51.8	53.7	51.6	-1.3	-0.2	Yes	No	No	No
2084	10 ALLEN COURT DARLINGTON	Residential	55	50	57.6	54.5	55.1	52.9	-2.5	-1.6	No	No	No	No
2085	11 ALLEN COURT DARLINGTON	Residential	55	50	58.7	55.7	55.9	53.7	-2.8	-2.0	No	No	No	No
2086	7 ALLEN COURT DARLINGTON	Residential	55	50	56.0	52.8	54.2	52.1	-1.8	-0.7	Yes	No	No	No
2087	2 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	67.8	65.0	64.1	61.8	-3.7	-3.2	No	No	No	No
2088	9B ALLEN COURT DARLINGTON	Residential	55	50	63.7	60.6	60.0	57.8	-3.7	-2.8	No	No	No	No
2089	4 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	67.1	64.2	63.4	61.1	-3.7	-3.1	No	No	No	No
2090	1 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.2	58.3	57.6	55.3	-3.6	-3.0	No	No	No	No
2091	9 ALLEN COURT DARLINGTON	Residential	55	50	64.1	61.0	60.3	58.1	-3.8	-2.9	No	No	No	No
2092	8 ALLEN COURT DARLINGTON	Residential	55	50	62.8	59.7	59.1	56.9	-3.7	-2.8	No	No	No	No
2093	6 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	63.9	61.0	60.3	58.0	-3.6	-3.0	No	No	No	No
2094	3 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.7	55.8	55.2	53.0	-3.5	-2.8	No	No	No	No
2095	110 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.3	50.3	50.9	48.8	-2.4	-1.5	No	No	No	No
2096	108 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.2	50.2	50.9	48.8	-2.3	-1.4	No	No	No	No
2097	5 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	55.8	52.8	52.7	50.5	-3.1	-2.3	No	No	No	No
2098	8 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.0	59.1	58.5	56.3	-3.5	-2.8	No	No	No	No
2100	112 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.8	50.8	51.3	49.1	-2.5	-1.7	No	No	No	No
2101	114 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.8	50.8	51.2	49.1	-2.6	-1.7	No	No	No	No
2102	12 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.7	59.8	59.2	57.0	-3.5	-2.8	No	No	No	No
2103	10 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.9	60.0	59.4	57.1	-3.5	-2.9	No	No	No	No
2104	14 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	63.1	60.2	59.6	57.3	-3.5	-2.9	No	No	No	No
2105	7-9 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.5	50.5	50.9	48.7	-2.6	-1.8	No	No	No	No
2106	116 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.8	50.8	51.3	49.1	-2.5	-1.7	No	No	No	No
2107	18 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.7	59.8	59.2	57.0	-3.5	-2.8	No	No	No	No
2108	16 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.4	59.5	58.9	56.7	-3.5	-2.8	No	No	No	No
2109	20 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.4	59.5	58.9	56.7	-3.5	-2.8	No	No	No	No
2110	118 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.5	50.5	50.9	48.8	-2.6	-1.7	No	No	No	No
2111	22 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.4	59.5	58.9	56.7	-3.5	-2.8	No	No	No	No
2112	120 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	53.2	50.2	50.7	48.5	-2.5	-1.7	No	No	No	No
2113	26 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	62.1	59.2	58.7	56.4	-3.4	-2.8	No	No	No	No
2114	24 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.9	59.0	58.5	56.2	-3.4	-2.8	No	No	No	No
2115	13 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.7	50.4	48.2	-2.3	-1.5	No	No	No	No
2116	11 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.4	50.4	50.8	48.6	-2.6	-1.8	No	No	No	No
2118	71 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	47.1	48.6	46.5	-1.5	-0.6	No	No	No	No
2119	69 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.3	48.7	46.6	-1.6	-0.7	No	No	No	No
2120	15 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.1	49.9	47.8	-2.2	-1.3	No	No	No	No
2121	30 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	61.4	58.6	58.1	55.8	-3.3	-2.8	No	No	No	No
2122	28 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	60.7	57.9	57.4	55.1	-3.3	-2.8	No	No	No	No
2124	17 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	49.1	50.1	48.0	-2.0	-1.1	No	No	No	No
2128	73 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.8	46.8	48.0	45.9	-1.8	-0.9	No	No	No	No
2129	19 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.5	49.6	50.6	48.5	-1.9	-1.1	No	No	No	No
2131	34 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	57.3	54.4	54.6	52.4	-2.7	-2.0	No	No	No	No
2132	21 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.6	49.6	50.7	48.6	-1.9	-1.0	No	No	No	No
2133	75 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.3	47.9	45.7	-1.4	-0.6	No	No	No	No
2135	36 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.6	55.7	55.8	53.6	-2.8	-2.1	No	No	No	No
2136	40 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	59.9	57.0	57.1	54.9	-2.8	-2.1	No	No	No	No
2137	38 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.9	56.0	56.1	53.9	-2.8	-2.1	No	No	No	No
2138	23 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.9	49.9	50.9	48.8	-2.0	-1.1	No	No	No	No
2141	44 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	59.1	56.2	56.6	54.4	-2.5	-1.8	No	No	No	No
2142	25 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	53.2	50.2	51.2	49.1	-2.0	-1.1	No	No	No	No
2143	42 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	57.6	54.8	55.4	53.3	-2.2	-1.5	Yes	No	No	No
2144	77 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.8	47.6	45.4	-1.2	-0.4	No	No	No	No
2145	46 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	58.7	55.9	56.6	54.4	-2.1	-1.5	Yes	No	No	No
2146	27 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	54.2	51.2	52.1	50.0	-2.1	-1.2	No	No	No	No
2147	79 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	47.7	45.5	-1.0	0.0	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2148	2 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	48.4	46.3	-0.8	0.4	No	No	No	No
2149	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	54.8	51.9	52.8	50.6	-2.0	-1.3	Yes	No	No	No
2150	2 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	56.0	53.1	55.2	53.1	-0.8	0.0	Yes	No	No	No
2151	2 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.9	48.3	46.1	-1.6	-0.8	No	No	No	No
2152	4 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	52.7	49.4	54.1	52.1	1.4	2.7	Yes	No	No	Yes
2153	81 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.3	47.4	45.4	-1.0	0.1	No	No	No	No
2154	4 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.0	48.5	46.4	-0.8	0.4	No	No	No	No
2155	31 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	48.1	50.5	48.3	-0.6	0.2	No	No	No	No
2156	33 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.0	48.0	50.8	48.7	-0.2	0.7	No	No	No	No
2157	5 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	46.0	47.9	45.7	-1.1	-0.3	No	No	No	No
2158	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.9	52.8	50.8	1.6	2.9	Yes	No	No	Yes
2159	35 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	49.1	51.6	49.5	-0.4	0.4	No	No	No	No
2160	29 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	52.9	49.7	51.7	49.6	-1.2	-0.1	No	No	No	No
2161	1 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	48.9	50.9	48.8	-1.2	-0.1	No	No	No	No
2162	6 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.6	52.4	50.3	1.2	2.7	No	No	No	No
2163	1 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	46.6	48.1	46.0	-1.5	-0.6	No	No	No	No
2164	4 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.5	48.1	46.0	-0.6	0.5	No	No	No	No
2165	37 WHITE AVENUE SINGLETON HEIGHTS	Residential	55	50	51.0	47.6	52.8	50.8	1.8	3.2	Yes	No	No	Yes
2166	6 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.6	48.1	46.0	-0.8	0.4	No	No	No	No
2167	8 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	47.1	52.5	50.4	2.2	3.3	No	No	No	No
2168	2 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.9	48.5	51.2	49.1	-0.7	0.6	No	No	No	No
2169	3 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.7	49.9	47.8	-0.9	0.1	No	No	No	No
2170	1 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.1	51.6	49.5	1.0	2.4	No	No	No	No
2171	7 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.9	47.6	45.5	-0.5	0.6	No	No	No	No
2172	9 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	49.1	45.8	47.8	45.7	-1.3	-0.1	No	No	No	No
2173	6 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	48.0	45.9	-0.7	0.5	No	No	No	No
2174	10 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.4	52.7	50.6	1.8	3.2	Yes	No	No	Yes
2175	38 MAISON DIEU ROAD MCDOUGALLS HILL	Residential	55	50	59.6	56.0	59.0	55.3	-0.6	-0.7	Yes	Yes	No	Yes
2176	5 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.4	49.8	47.7	-0.9	0.3	No	No	No	No
2177	3 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.3	52.9	50.8	2.0	3.5	Yes	No	No	Yes
2178	9 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	46.0	48.4	46.4	-0.8	0.4	No	No	No	No
2179	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.6	48.4	46.3	-0.3	0.7	No	No	No	No
2180	16 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	52.3	49.1	51.7	49.6	-0.6	0.5	No	No	No	No
2181	3 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.8	47.3	45.2	-0.7	0.4	No	No	No	No
2182	7 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.5	48.4	51.2	49.1	-0.3	0.7	No	No	No	No
2183	4 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.3	49.0	51.5	49.4	-0.8	0.4	No	No	No	No
2186	12 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.5	53.2	51.1	1.6	2.6	Yes	No	No	Yes
2188	5 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.8	48.5	51.5	49.5	-0.3	1.0	No	No	No	No
2189	7 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.6	45.3	47.8	45.8	-0.8	0.5	No	No	No	No
2192	14 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.6	53.1	51.0	1.9	3.4	Yes	No	No	Yes
2194	6 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	48.6	51.3	49.3	-0.7	0.7	No	No	No	No
2195	14 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.6	48.6	50.5	48.4	-1.1	-0.2	No	No	No	No
2196	5 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.2	52.7	50.6	1.9	3.4	Yes	No	No	Yes
2197	8 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	48.4	46.4	-0.8	0.5	No	No	No	No
2198	11 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	46.0	48.7	46.7	-0.6	0.7	No	No	No	No
2202	7 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.4	47.0	49.5	47.5	-0.9	0.5	No	No	No	No
2203	8 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.4	48.2	46.2	-0.5	0.8	No	No	No	No
2205	5 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.5	47.3	45.2	-0.5	0.7	No	No	No	No
2206	3 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.8	47.3	51.1	49.1	0.3	1.8	No	No	No	No
2207	12 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.9	47.4	50.9	48.9	0.0	1.5	No	No	No	No
2208	9 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.2	49.7	47.7	-0.8	0.5	No	No	No	No
2210	16 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.0	47.5	53.2	51.1	2.2	3.6	Yes	No	No	Yes
2211	7 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	47.6	52.6	50.5	1.5	2.9	Yes	No	No	Yes
2212	8 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.7	48.3	51.2	49.2	-0.5	0.9	No	No	No	No
2213	10 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	49.4	46.0	48.5	46.4	-0.9	0.4	No	No	No	No
2214	10 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	48.5	46.4	-0.7	0.5	No	No	No	No
2215	13 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.6	46.2	48.8	46.7	-0.8	0.5	No	No	No	No
2216	5 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.9	44.6	47.4	45.4	-0.5	0.8	No	No	No	No
2217	18 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.0	47.3	53.2	51.1	2.2	3.8	Yes	No	No	Yes
2218	1 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.4	46.9	50.9	48.9	0.5	2.0	No	No	No	No
2219	10 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	51.1	47.6	51.0	49.0	-0.1	1.4	No	No	No	No
2220	7 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.3	47.2	45.1	-0.4	0.8	No	No	No	No
2222	11 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.4	47.1	49.7	47.6	-0.7	0.5	No	No	No	No
2223	15 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	45.9	48.6	46.5	-0.7	0.6	No	No	No	No
2224	14 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.7	47.7	45.6	-0.3	0.9	No	No	No	No
2225	10 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.1	48.7	51.5	49.5	-0.6	0.8	No	No	No	No
2226	12 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.6	48.3	46.2	-0.6	0.6	No	No	No	No
2227	9 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.3	52.3	50.2	1.5	2.9	No	No	No	No
2228	3 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.6	44.4	47.1	45.1	-0.5	0.7	No	No	No	No
2230	20 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.7	47.0	52.5	50.4	1.8	3.4	No	No	No	No
2231	13 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.8	49.6	47.6	-0.6	0.8	No	No	No	No
2232	8 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.9	47.4	50.8	48.7	-0.1	1.3	No	No	No	No
2233	9 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	44.1	47.1	45.0	-0.2	0.9	No	No	No	No
2234	8 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	49.2	45.9	48.7	46.6	-0.5	0.7	No	No	No	No
2236	12 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.0	48.6	51.5	49.5	-0.5	0.9	No	No	No	No
2237	14 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	45.1	48.0	45.9	-0.4	0.8	No	No	No	No
2238	19 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.3	48.4	46.3	-0.4	1.0	No	No	No	No
2239	6 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.8	45.5	48.3	46.3	-0.5	0.8	No	No	No	No
2240	22 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	46.9	52.9	50.8	2.4	3.9	Yes	No	No	Yes
2241	17 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.6	47.1	45.0	-0.5	0.4	No	No	No	No
2242	15 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.9	49.6	47.5	-0.7	0.6	No	No	No	No
2243	6 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.2	46.8	50.4	48.3	0.2	1.5	No	No	No	No
2244	1 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.3	43.9	46.9	44.8	-0.4	0.9	No	No	No	No
2245	11 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.7	46.9	44.8	-0.1	1.1	No	No	No	No
2246	14 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.7	48.3	51.3	49.2	-0.4	0.9	No	No	No	No
2247	16 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.1	48.1	46.1	-0.5	1.0	No	No	No	No
2248	4 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	50.1	46.8	50.4	48.3	0.3	1.5	No	No	No	No
2249	17 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.5	49.1	51.6	49.5	-0.9	0.4	No	No	No	No
2250	4 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.4	45.1	48.2	46.2	-0.2	1.1	No	No	No	No
2251	24 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.3	46.5	52.4	50.3	2.1	3.8	No	No	No	No
2252	16 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.6	48.2	51.2	49.2	-0.4	1.0	No	No	No	No
2253	2 HUME CLOSE SINGLETON HEIGHTS	Residential	55	50	49.9	46.6	50.4	48.3	0.5	1.7	No	No	No	No
2254	11 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	46.8	52.0	50.0	1.4	3.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2255	18 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.2	48.0	45.9	-0.7	0.7	No	No	No	No
2256	1 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	42.4	44.9	42.8	-0.5	0.4	No	No	No	No
2257	11 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	44.1	46.7	44.6	-0.7	0.5	No	No	No	No
2258	13 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.5	46.9	44.8	0.0	1.3	No	No	No	No
2259	3 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.7	45.7	43.6	-0.1	0.9	No	No	No	No
2260	5 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	43.1	45.5	43.3	-0.7	0.2	No	No	No	No
2261	26 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.4	52.3	50.2	2.2	3.8	No	No	No	No
2262	19 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.4	49.5	47.5	-0.4	1.1	No	No	No	No
2263	20 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.3	47.7	45.7	-0.2	1.4	No	No	No	No
2264	18 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	52.8	49.3	52.3	50.3	-0.5	1.0	No	No	No	No
2265	2 BLIGH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.3	44.8	47.8	45.8	-0.5	1.0	No	No	No	No
2266	13 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.2	51.4	49.3	1.4	3.1	No	No	No	No
2267	20 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.4	48.0	45.9	-0.8	0.5	No	No	No	No
2268	18 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.3	46.9	44.8	-0.2	1.5	No	No	No	No
2269	21 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.0	46.4	49.7	47.7	-0.3	1.3	No	No	No	No
2270	20 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.8	47.5	51.0	48.9	0.2	1.4	No	No	No	No
2271	28 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.0	51.7	49.6	1.1	2.6	No	No	No	No
2272	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.7	51.3	49.3	0.1	1.6	No	No	No	No
2273	23 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.6	49.8	47.7	-0.4	1.1	No	No	No	No
2274	22 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	45.0	47.9	45.8	-0.4	0.8	No	No	No	No
2275	15 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.9	50.7	48.6	1.0	2.7	No	No	No	No
2276	22 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.8	50.6	48.6	0.4	1.8	No	No	No	No
2277	22 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.2	48.3	46.2	-0.5	1.0	No	No	No	No
2278	21 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.6	48.6	46.6	-0.5	1.0	No	No	No	No
2279	1 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	66.6	62.9	62.7	60.9	-3.9	-2.0	No	No	No	No
2280	30 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.4	52.0	49.9	1.8	3.5	No	No	No	No
2281	24 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.8	48.0	45.9	-0.2	1.1	No	No	No	No
2282	23 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.9	46.9	44.8	0.0	0.9	No	No	No	No
2283	25 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.4	49.7	47.6	-0.2	1.2	No	No	No	No
2284	15 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.1	47.1	45.0	-0.4	0.9	No	No	No	No
2285	2 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.8	45.8	43.7	-0.1	0.9	No	No	No	No
2286	24 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.3	48.6	46.5	-0.2	1.2	No	No	No	No
2287	24 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.5	47.0	50.2	48.1	-0.3	1.1	No	No	No	No
2288	4 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	43.2	45.9	43.8	-0.3	0.6	No	No	No	No
2289	6 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.6	46.4	44.3	-0.3	0.7	No	No	No	No
2290	8 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.7	46.4	44.3	-0.4	0.6	No	No	No	No
2291	10 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.9	46.5	44.4	-0.5	0.5	No	No	No	No
2292	12 WOODWARD AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.7	46.3	44.2	-0.5	0.5	No	No	No	No
2293	25 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.2	48.3	46.3	-0.4	1.1	No	No	No	No
2294	26 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	45.0	48.2	46.2	-0.3	1.2	No	No	No	No
2295	17 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.3	47.4	45.3	-0.2	1.0	No	No	No	No
2296	33 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.9	46.3	44.2	-0.6	0.3	No	No	No	No
2297	26 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.9	47.3	51.1	49.1	0.2	1.8	No	No	No	No
2298	27 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.2	49.6	47.6	-0.1	1.4	No	No	No	No
2299	32 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.8	51.6	49.5	1.9	3.7	No	No	No	No
2300	26 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	45.5	48.8	46.8	-0.2	1.3	No	No	No	No
2301	28 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.6	47.6	45.5	-0.6	0.9	No	No	No	No
2302	31 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	46.0	43.9	-0.9	0.6	No	No	No	No
2303	3 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	59.0	55.1	56.0	54.1	-3.0	-1.0	No	No	No	No
2304	28 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.1	47.5	51.4	49.4	0.3	1.9	No	No	No	No
2305	27 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.1	48.3	46.2	-0.3	1.1	No	No	No	No
2306	29 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.2	50.2	48.1	0.3	1.9	No	No	No	No
2307	5 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	56.4	52.5	54.5	52.4	-1.9	-0.1	Yes	No	No	No
2309	19 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.1	47.3	45.2	-0.3	1.1	No	No	No	No
2310	28 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	45.4	48.9	46.9	-0.1	1.5	No	No	No	No
2311	30 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.5	47.6	45.5	-0.4	1.0	No	No	No	No
2312	29 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.6	46.2	44.1	-0.8	0.5	No	No	No	No
2313	30 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.6	47.1	51.2	49.1	0.6	2.0	No	No	No	No
2314	31 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.1	46.4	50.2	48.1	0.1	1.7	No	No	No	No
2315	21 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.1	47.4	45.3	-0.2	1.2	No	No	No	No
2316	25 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.2	46.0	43.9	-0.5	0.7	No	No	No	No
2317	32 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	51.2	47.6	51.8	49.7	0.6	2.1	No	No	No	No
2319	32 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.6	46.8	44.7	0.0	1.1	No	No	No	No
2320	29 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.6	45.0	48.4	46.3	-0.2	1.3	No	No	No	No
2321	30 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.0	45.4	49.0	46.9	0.0	1.5	No	No	No	No
2322	21 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.8	45.7	43.6	-0.3	0.8	No	No	No	No
2323	27 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.4	46.1	44.0	-0.8	0.6	No	No	No	No
2324	19 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	46.9	44.8	-0.3	1.1	No	No	No	No
2325	23 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.4	45.2	43.1	-0.4	0.7	No	No	No	No
2326	31 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.9	48.3	46.2	-0.2	1.3	No	No	No	No
2327	33 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.5	50.2	48.1	0.0	1.6	No	No	No	No
2328	34 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	51.4	47.8	52.5	50.5	1.1	2.7	Yes	No	No	Yes
2329	23 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.2	47.3	45.2	-0.4	1.0	No	No	No	No
2331	32 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.4	49.1	47.1	0.0	1.7	No	No	No	No
2333	35 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	50.2	46.5	50.3	48.3	0.1	1.8	No	No	No	No
2334	17 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.8	46.6	44.5	-0.5	0.7	No	No	No	No
2335	33 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.2	47.9	45.8	0.2	1.6	No	No	No	No
2336	34 JAMES COOK AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	43.0	46.1	44.0	-0.4	1.0	No	No	No	No
2337	52 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	46.6	44.6	-0.7	0.8	No	No	No	No
2338	36 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.5	45.5	50.9	48.8	1.4	3.3	No	No	No	No
2339	37 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.4	49.9	47.8	0.0	1.4	No	No	No	No
2340	34 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.8	48.5	46.4	0.0	1.6	No	No	No	No
2341	15 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.5	46.1	44.0	0.4	1.5	No	No	No	No
2342	50 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.5	46.2	44.1	-0.8	0.6	No	No	No	No
2344	39 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	46.1	50.1	48.0	0.4	1.9	No	No	No	No
2345	13 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.8	47.3	45.2	0.1	1.4	No	No	No	No
2346	41 NORTHCOTT AVENUE SINGLETON HEIGHTS	Residential	55	50	49.9	46.2	50.8	48.7	0.9	2.5	No	No	No	No
2347	35 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	47.3	45.3	0.4	2.0	No	No	No	No
2348	48 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	46.1	44.0	-0.8	0.7	No	No	No	No
2349	38 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.7	45.7	50.9	48.8	1.2	3.1	No	No	No	No
2351	46 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.6	45.4	43.3	-0.5	0.7	No	No	No	No
2352	36 WENTWORTH AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	43.3	47.1	45.0	0.5	1.7	No	No	No	No
2353	17 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.8	49.5	47.4	0.8	2.6	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2354	9 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.2	48.8	46.7	0.0	1.5	No	No	No	No
2355	34 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.9	46.9	44.9	-0.5	1.0	No	No	No	No
2356	36 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.7	46.7	44.6	-0.5	0.9	No	No	No	No
2357	38 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.3	46.2	44.1	-0.5	0.8	No	No	No	No
2358	40 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.4	40.7	46.0	43.9	1.6	3.2	No	No	No	No
2359	11 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.6	48.3	46.3	0.2	1.7	No	No	No	No
2360	40 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.3	45.3	50.6	48.5	1.3	3.2	No	No	No	No
2361	32 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.6	46.4	44.3	-0.6	0.7	No	No	No	No
2362	42 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.8	41.1	46.5	44.5	1.7	3.4	No	No	No	No
2363	2 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	67.5	63.0	63.3	61.5	-4.2	-1.5	No	No	No	No
2364	30 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.8	46.9	44.8	-0.4	1.0	No	No	No	No
2365	44 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.6	40.8	45.4	43.3	0.8	2.5	No	No	No	No
2366	7 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.5	49.2	47.2	0.0	1.7	No	No	No	No
2367	19 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.8	49.5	47.4	0.8	2.6	No	No	No	No
2368	5 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	49.2	45.5	49.1	47.1	-0.1	1.6	No	No	No	No
2369	28 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.0	47.2	45.1	-0.4	1.1	No	No	No	No
2371	3 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.1	49.0	46.9	0.3	1.8	No	No	No	No
2372	26 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	44.1	47.3	45.2	-0.4	1.1	No	No	No	No
2373	42 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	49.1	45.1	50.4	48.3	1.3	3.2	No	No	No	No
2374	22 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	44.0	47.3	45.2	-0.2	1.2	No	No	No	No
2375	24 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.6	46.8	44.7	-0.3	1.1	No	No	No	No
2376	1 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.0	49.4	47.3	0.5	2.3	No	No	No	No
2377	44 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.8	49.9	47.9	1.5	3.1	No	No	No	No
2378	20 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	44.0	47.2	45.2	-0.4	1.2	No	No	No	No
2380	18 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.2	47.4	45.4	-0.4	1.2	No	No	No	No
2381	16 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.5	47.9	45.8	-0.2	1.3	No	No	No	No
2383	12 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.4	47.9	45.8	-0.1	1.4	No	No	No	No
2384	14 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	44.0	47.4	45.4	0.0	1.4	No	No	No	No
2385	46 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	44.7	50.0	47.9	1.3	3.2	No	No	No	No
2386	10 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.2	47.6	45.5	-0.2	1.3	No	No	No	No
2387	8 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.6	48.1	46.0	-0.1	1.4	No	No	No	No
2388	48 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.4	50.0	47.9	1.5	3.5	No	No	No	No
2389	6 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.7	48.3	46.3	0.0	1.6	No	No	No	No
2390	4 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.7	48.8	46.7	0.3	2.0	No	No	No	No
2391	2 LAWSON AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.2	49.1	47.1	0.2	1.9	No	No	No	No
2392	50 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.2	49.6	47.5	1.4	3.3	No	No	No	No
2393	21 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.9	45.2	49.3	47.2	0.4	2.0	No	No	No	No
2394	12 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	57.2	52.9	54.2	52.2	-3.0	-0.7	No	No	No	No
2395	4 PARK VIEW CRESCENT MCDOUGALLS HILL	Residential	55	50	63.3	58.7	59.4	57.6	-3.9	-1.1	No	No	No	No
2396	52 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	48.0	44.0	49.3	47.2	1.3	3.2	No	No	No	No
2399	54 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.5	48.9	46.8	1.3	3.3	No	No	No	No
2401	56 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.5	48.8	46.7	1.3	3.2	No	No	No	No
2403	58 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.3	48.7	46.6	1.4	3.3	No	No	No	No
2405	11 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.0	50.7	52.8	50.8	-2.2	0.1	No	No	No	No
2407	60 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.0	48.3	46.2	1.3	3.2	No	No	No	No
2408	99 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.8	46.3	44.2	0.0	1.4	No	No	No	No
2409	62 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.3	47.6	45.5	1.2	3.2	No	No	No	No
2412	10 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	63.2	58.6	59.4	57.6	-3.8	-1.0	No	No	No	No
2413	64 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.3	47.4	45.3	1.1	3.0	No	No	No	No
2414	2 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.9	42.0	47.1	45.0	1.2	3.0	No	No	No	No
2415	92 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	45.7	43.7	-0.1	1.5	No	No	No	No
2416	86 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.5	45.2	43.1	0.2	1.6	No	No	No	No
2417	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	45.4	43.4	0.1	1.9	No	No	No	No
2418	1 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.8	43.2	47.6	45.5	0.8	2.3	No	No	No	No
2419	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.2	45.7	43.7	0.0	1.5	No	No	No	No
2420	88 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	44.4	42.3	-0.2	1.2	No	No	No	No
2421	90 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.2	44.6	42.5	-0.1	1.3	No	No	No	No
2422	4 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.1	47.2	45.1	1.2	3.0	No	No	No	No
2423	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	46.2	44.1	0.4	2.0	No	No	No	No
2425	80 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	46.1	44.0	0.2	1.7	No	No	No	No
2426	78 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	46.2	44.2	0.3	1.9	No	No	No	No
2427	66 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	46.9	44.8	0.9	2.3	No	No	No	No
2429	76 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.0	46.3	44.3	0.6	2.3	No	No	No	No
2430	23 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	44.9	42.8	0.0	1.5	No	No	No	No
2431	74 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	42.4	46.5	44.4	0.5	2.0	No	No	No	No
2432	70 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	46.3	44.2	0.5	2.0	No	No	No	No
2433	68 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.2	46.5	44.4	0.8	2.2	No	No	No	No
2434	28 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.8	45.5	43.5	0.1	1.7	No	No	No	No
2435	84 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	44.3	40.6	44.1	42.0	-0.2	1.4	No	No	No	No
2436	6 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	47.0	44.9	1.5	3.2	No	No	No	No
2437	3 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.1	42.4	47.3	45.2	1.2	2.8	No	No	No	No
2438	72 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.7	42.1	46.2	44.1	0.5	2.0	No	No	No	No
2439	4 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.6	40.9	44.2	42.1	-0.4	1.2	No	No	No	No
2440	82 BLAXLAND AVENUE SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	45.7	43.6	0.3	1.9	No	No	No	No
2443	9 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	57.3	52.8	54.7	52.7	-2.6	-0.1	No	No	No	No
2444	8 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.5	46.8	44.7	1.5	3.2	No	No	No	No
2445	6 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	44.3	42.2	0.2	1.6	No	No	No	No
2447	26 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	45.6	43.5	0.0	1.5	No	No	No	No
2448	15 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.4	45.1	43.0	0.0	1.6	No	No	No	No
2449	13 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	45.5	43.4	0.0	1.5	No	No	No	No
2450	5 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.3	47.1	45.1	1.1	2.8	No	No	No	No
2451	8 FOREST AVENUE SINGLETON HEIGHTS	Residential	55	50	44.3	40.5	44.1	42.1	-0.2	1.6	No	No	No	No
2452	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	45.6	43.5	0.0	1.5	No	No	No	No
2453	11 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.7	45.8	43.7	0.5	2.0	No	No	No	No
2454	9 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	45.8	43.7	0.8	2.3	No	No	No	No
2455	5 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	45.6	43.5	0.6	2.3	No	No	No	No
2456	7 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	45.5	43.4	0.6	2.2	No	No	No	No
2457	24 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	45.3	43.2	0.0	1.4	No	No	No	No
2458	10 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	46.5	44.4	1.5	3.2	No	No	No	No
2459	7 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	47.0	44.9	1.2	2.8	No	No	No	No
2460	20 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	45.0	42.9	0.3	1.9	No	No	No	No
2461	1 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	46.8	44.7	1.2	2.7	No	No	No	No
2462	3 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.2	41.5	45.9	43.7	0.7	2.2	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2463	18 MITCHELL AVENUE SINGLETON HEIGHTS	Residential	55	50	45.0	41.5	45.2	43.1	0.2	1.6	No	No	No	No
2464	14 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	44.9	42.9	0.3	1.8	No	No	No	No
2465	2 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	45.4	43.4	0.1	1.6	No	No	No	No
2466	11 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.1	45.2	43.1	0.5	2.0	No	No	No	No
2467	1 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	45.9	43.8	0.4	2.1	No	No	No	No
2468	3 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	45.8	43.7	0.0	1.5	No	No	No	No
2469	1 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	41.0	44.6	42.5	0.0	1.5	No	No	No	No
2470	10 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.5	40.9	45.0	42.9	0.5	2.0	No	No	No	No
2471	2 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	43.5	39.7	44.0	41.9	0.5	2.2	No	No	No	No
2472	16 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.3	41.6	45.1	43.0	-0.2	1.4	No	No	No	No
2473	26 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	46.0	43.9	0.4	2.0	No	No	No	No
2474	2 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	46.0	43.9	0.4	2.0	No	No	No	No
2475	14 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	41.9	46.6	44.5	1.0	2.6	No	No	No	No
2476	3 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	46.4	44.4	0.6	2.3	No	No	No	No
2477	5 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.2	46.1	44.0	0.2	1.8	No	No	No	No
2478	2 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	40.9	46.0	43.9	1.2	3.0	No	No	No	No
2479	9 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.9	42.3	47.0	44.9	1.1	2.6	No	No	No	No
2480	3 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.2	45.4	43.4	0.6	2.2	No	No	No	No
2481	9 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.4	45.4	43.3	0.3	1.9	No	No	No	No
2482	4 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	45.7	42.1	45.8	43.7	0.1	1.6	No	No	No	No
2483	4 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	45.5	43.4	0.6	2.3	No	No	No	No
2484	24 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.0	41.3	45.8	43.7	0.8	2.4	No	No	No	No
2485	16 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.7	40.9	46.4	44.3	1.7	3.4	No	No	No	No
2486	4 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.5	41.7	45.6	43.5	0.1	1.8	No	No	No	No
2487	4 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.2	41.4	46.2	44.1	1.0	2.7	No	No	No	No
2488	5 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.5	41.0	44.5	42.4	0.0	1.4	No	No	No	No
2489	7 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.5	45.1	43.1	0.2	1.6	No	No	No	No
2490	8 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	46.2	44.1	0.4	1.8	No	No	No	No
2491	11 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	47.1	45.0	1.3	2.9	No	No	No	No
2492	7 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.6	46.9	44.9	0.6	2.3	No	No	No	No
2493	18 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.3	40.6	46.1	44.0	1.8	3.4	No	No	No	No
2494	6 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	45.6	43.5	0.7	2.4	No	No	No	No
2495	17 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	46.3	42.8	46.2	44.2	-0.1	1.4	No	No	No	No
2496	6 GILES CLOSE SINGLETON HEIGHTS	Residential	55	50	44.8	41.4	45.0	42.9	0.2	1.5	No	No	No	No
2497	7 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.9	43.3	47.0	45.0	0.1	1.7	No	No	No	No
2498	5 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.2	43.5	47.2	45.1	0.0	1.6	No	No	No	No
2499	22 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.7	42.0	46.4	44.4	0.7	2.4	No	No	No	No
2500	6 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.0	45.7	43.6	0.8	2.6	No	No	No	No
2501	9 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.8	47.0	44.9	0.5	2.1	No	No	No	No
2502	20 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.1	39.2	42.9	40.8	-0.2	1.6	No	No	No	No
2503	8 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.1	41.5	45.8	43.7	0.7	2.2	No	No	No	No
2504	13 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.5	41.8	47.0	44.9	1.5	3.1	No	No	No	No
2505	6 FLINDERS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.1	42.6	46.3	44.3	0.2	1.7	No	No	No	No
2506	20 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.0	42.2	46.8	44.7	0.8	2.5	No	No	No	No
2507	19 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.5	41.8	45.4	43.4	-0.1	1.6	No	No	No	No
2508	45 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	43.2	39.6	43.4	41.3	0.2	1.7	No	No	No	No
2509	8 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.7	41.0	45.8	43.7	1.1	2.7	No	No	No	No
2510	43 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	45.7	43.6	0.1	1.6	No	No	No	No
2511	11 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.0	47.3	45.3	0.5	2.3	No	No	No	No
2513	18 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.0	41.2	45.5	43.4	0.5	2.2	No	No	No	No
2514	10 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	45.5	41.9	46.1	44.0	0.6	2.1	No	No	No	No
2515	15 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.5	46.9	44.8	1.5	3.3	No	No	No	No
2516	41 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	45.7	43.6	-0.1	1.3	No	No	No	No
2517	13 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.1	47.2	45.2	0.3	2.1	No	No	No	No
2518	10 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.3	46.4	44.3	1.5	3.0	No	No	No	No
2519	24 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.0	46.5	44.4	1.7	3.4	No	No	No	No
2520	39 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.5	43.0	46.5	44.5	0.0	1.5	No	No	No	No
2521	21 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.8	42.3	45.7	43.6	-0.1	1.3	No	No	No	No
2522	37 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.5	41.5	46.3	44.2	1.8	2.7	No	No	No	No
2524	23 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.3	41.9	46.0	44.0	0.7	2.1	No	No	No	No
2525	15 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	43.0	47.2	45.1	0.5	2.1	No	No	No	No
2526	16 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	46.0	42.3	46.9	44.9	0.9	2.6	No	No	No	No
2527	12 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.7	41.7	46.2	44.1	0.5	2.4	No	No	No	No
2528	17 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.6	47.0	44.9	1.6	3.3	No	No	No	No
2529	35 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	46.6	44.5	0.3	1.8	No	No	No	No
2530	12 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	46.9	44.8	0.5	2.3	No	No	No	No
2531	26 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.1	41.3	46.8	44.7	1.7	3.4	No	No	No	No
2532	56 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.6	42.0	46.5	44.3	0.9	2.3	No	No	No	No
2533	17 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	43.4	47.7	45.7	0.6	2.3	No	No	No	No
2534	14 WILLS CLOSE SINGLETON HEIGHTS	Residential	55	50	45.1	41.6	46.2	44.1	1.1	2.5	No	No	No	No
2535	28 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	47.3	45.2	1.9	3.5	No	No	No	No
2536	19 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.4	41.7	46.7	44.6	1.3	2.9	No	No	No	No
2537	58 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	42.9	39.8	44.6	42.5	1.7	2.7	No	No	No	No
2538	60 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.2	40.4	43.2	41.1	-1.0	0.7	No	No	No	No
2539	24 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.9	38.3	43.0	40.9	1.1	2.6	No	No	No	No
2540	14 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	43.0	47.2	45.1	0.4	2.1	No	No	No	No
2541	16 OXLEY AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.9	47.4	45.3	1.1	2.4	No	No	No	No
2542	21 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.2	42.5	47.9	45.8	1.7	3.3	No	No	No	No
2543	54 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.8	46.6	44.4	1.3	2.6	No	No	No	No
2544	31 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.6	42.9	46.8	44.8	0.2	1.9	No	No	No	No
2545	23 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.3	41.4	46.6	44.4	1.3	3.0	No	No	No	No
2546	30 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.8	42.1	48.1	46.0	2.3	3.9	No	No	No	No
2547	50 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.6	42.6	46.2	44.2	-0.4	1.6	No	No	No	No
2548	52 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.2	45.7	43.6	-0.6	1.4	No	No	No	No
2549	33 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	46.9	44.8	0.6	2.1	No	No	No	No
2550	6 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	55.8	51.6	54.6	52.4	-1.2	0.8	Yes	No	No	No
2551	29 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.7	46.8	44.7	0.5	2.0	No	No	No	No
2552	25 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.4	42.4	47.9	45.8	1.5	3.4	No	No	No	No
2553	32 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	48.9	46.8	2.9	4.3	No	No	No	No
2554	46 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	46.4	44.3	0.0	1.8	No	No	No	No
2555	48 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	46.2	44.1	-0.2	1.6	No	No	No	No
2556	27 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.2	42.0	46.8	44.7	0.6	2.7	No	No	No	No
2557	26 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.8	40.2	44.4	42.3	0.6	2.1	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2558	44 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	44.8	41.5	46.4	44.3	1.6	2.8	No	No	No	No
2559	42 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.3	42.4	46.2	44.1	-0.1	1.7	No	No	No	No
2560	34 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.4	42.5	47.8	45.7	1.4	3.2	No	No	No	No
2561	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.6	40.5	44.6	42.5	0.0	2.0	No	No	No	No
2562	13B BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	40.7	44.9	42.8	0.0	2.1	No	No	No	No
2563	40 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	47.2	43.2	47.2	45.2	0.0	2.0	No	No	No	No
2564	33 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.1	41.6	45.6	43.5	0.5	1.9	No	No	No	No
2565	14 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.6	41.5	45.9	43.8	0.3	2.3	No	No	No	No
2566	2 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.7	48.2	46.0	2.4	3.3	No	No	No	No
2567	2 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.0	43.2	48.6	46.5	1.6	3.3	No	No	No	No
2568	3 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.6	42.3	48.0	45.8	2.4	3.5	No	No	No	No
2569	7 MCDOUGALL CLOSE MCDOUGALLS HILL	Residential	55	50	53.2	49.2	53.7	51.6	0.5	2.4	Yes	No	No	Yes
2570	13 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.1	42.3	47.0	44.9	0.9	2.6	No	No	No	No
2571	38 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	46.0	42.7	48.0	45.8	2.0	3.1	No	No	No	No
2572	1 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	48.3	44.6	50.0	47.9	1.7	3.3	No	No	No	No
2573	4 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.4	43.7	49.4	47.3	2.0	3.6	No	No	No	No
2574	15 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.2	42.2	46.3	44.2	0.1	2.0	No	No	No	No
2575	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	45.0	42.9	0.1	1.7	No	No	No	No
2576	30 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.8	41.2	44.2	42.1	-0.6	0.9	No	No	No	No
2577	12 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	47.6	43.6	48.2	46.1	0.6	2.5	No	No	No	No
2578	4 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	44.1	49.6	47.4	1.8	3.3	No	No	No	No
2579	36 WAKEHURST CRESCENT SINGLETON HEIGHTS	Residential	55	50	45.0	41.4	46.2	44.1	1.2	2.7	No	No	No	No
2580	32 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.2	40.5	44.4	42.3	0.2	1.8	No	No	No	No
2581	35 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.6	41.1	45.1	43.0	0.5	1.9	No	No	No	No
2582	16 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	42.3	47.9	45.7	2.5	3.4	No	No	No	No
2583	17 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.4	42.3	47.9	45.8	2.5	3.5	No	No	No	No
2584	37 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.7	40.4	44.8	42.7	1.1	2.3	No	No	No	No
2585	3 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.0	49.6	47.6	1.8	3.6	No	No	No	No
2586	5 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.8	45.1	49.8	47.7	1.0	2.6	No	No	No	No
2587	6 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	47.8	44.0	49.5	47.4	1.7	3.4	No	No	No	No
2588	5 BASS CLOSE SINGLETON HEIGHTS	Residential	55	50	49.2	45.4	51.9	49.8	2.7	4.4	No	No	No	No
2589	11 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.2	41.9	46.3	44.2	1.1	2.3	No	No	No	No
2590	34 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	44.1	40.6	44.8	42.7	0.7	2.1	No	No	No	No
2591	3 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	43.4	39.6	46.2	44.0	2.8	4.4	No	No	No	No
2592	2 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.8	43.3	48.9	46.7	2.1	3.4	No	No	No	No
2593	10 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	46.0	42.5	47.1	45.0	1.1	2.5	No	No	No	No
2594	34 DEANS AVENUE SINGLETON HEIGHTS	Residential	55	50	41.9	39.0	43.3	41.2	1.4	2.2	No	No	No	No
2595	1 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.7	45.0	50.4	48.3	1.7	3.3	No	No	No	No
2599	9 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	45.7	41.9	46.4	44.3	0.7	2.4	No	No	No	No
2600	38 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.6	38.9	43.2	41.1	1.6	2.2	No	No	No	No
2601	4941 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	61.1	56.6	57.6	55.8	-3.5	-0.8	No	No	No	No
2602	9 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.7	45.0	50.5	48.4	1.8	3.4	No	No	No	No
2603	4 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.4	44.7	49.4	47.3	1.0	2.6	No	No	No	No
2604	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.6	38.4	42.5	40.4	0.9	2.0	No	No	No	No
2605	8 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.3	40.6	45.3	43.2	1.0	2.6	No	No	No	No
2606	5 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.1	44.3	49.4	47.3	1.3	3.0	No	No	No	No
2607	11 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.4	44.6	50.1	48.0	1.7	3.4	No	No	No	No
2608	7 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	44.9	41.2	46.6	44.4	1.7	3.2	No	No	No	No
2609	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	41.8	38.7	43.0	40.9	1.2	2.2	No	No	No	No
2610	6 BEH CLOSE SINGLETON HEIGHTS	Residential	55	50	48.0	44.2	49.3	47.2	1.3	3.0	No	No	No	No
2611	40 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	43.2	40.0	44.4	42.2	1.2	2.2	No	No	No	No
2612	13 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.1	44.1	49.4	47.3	1.3	3.2	No	No	No	No
2613	15 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.9	44.0	49.2	47.1	1.3	3.1	No	No	No	No
2614	44A CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	46.0	42.1	46.7	44.6	0.7	2.5	No	No	No	No
2615	4943 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	61.2	56.7	57.6	55.8	-3.6	-0.9	No	No	No	No
2616	14 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.5	49.3	47.2	0.8	2.7	No	No	No	No
2617	30 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.8	47.5	45.4	0.8	2.6	No	No	No	No
2618	32 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.0	47.5	45.4	0.6	2.4	No	No	No	No
2619	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.3	48.6	46.5	1.0	3.2	No	No	No	No
2620	42 CUNNINGHAM PARADE SINGLETON HEIGHTS	Residential	55	50	45.5	41.4	45.7	43.6	0.2	2.2	No	No	No	No
2622	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	43.4	48.4	46.3	0.7	2.9	No	No	No	No
2624	20 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.1	47.6	45.5	0.7	2.4	No	No	No	No
2625	17 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	42.7	47.4	45.3	0.5	2.6	No	No	No	No
2626	22 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.6	47.8	45.7	1.2	3.1	No	No	No	No
2627	20A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.8	38.4	43.5	41.3	1.7	2.9	No	No	No	No
2628	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.1	42.7	47.8	45.7	0.7	3.0	No	No	No	No
2629	19 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.9	42.1	46.6	44.5	0.7	2.4	No	No	No	No
2630	22A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.2	42.3	47.5	45.4	1.3	3.1	No	No	No	No
2631	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.2	44.2	49.1	47.0	0.9	2.8	No	No	No	No
2632	24 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.3	42.4	47.0	44.9	0.7	2.5	No	No	No	No
2633	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	44.9	41.1	46.4	44.3	1.5	3.2	No	No	No	No
2634	21 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.6	47.0	44.9	0.6	2.3	No	No	No	No
2635	26 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.8	40.0	45.0	42.8	1.2	2.8	No	No	No	No
2636	38 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.7	48.2	46.1	0.7	2.4	No	No	No	No
2638	16-18 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.5	44.4	49.3	47.2	0.8	2.8	No	No	No	No
2639	40 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.6	48.1	46.1	0.6	2.5	No	No	No	No
2640	23 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.6	42.7	47.2	45.2	0.6	2.5	No	No	No	No
2641	28 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.3	48.4	46.3	1.1	3.0	No	No	No	No
2643	25 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.7	47.1	45.0	0.4	2.3	No	No	No	No
2644	42 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.5	48.1	46.0	0.7	2.5	No	No	No	No
2645	28A LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	48.3	44.2	49.0	46.9	0.7	2.7	No	No	No	No
2646	30 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	43.0	47.2	45.1	0.3	2.1	No	No	No	No
2647	44 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	44.3	40.5	45.0	42.9	0.7	2.4	No	No	No	No
2648	27 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.6	43.6	48.5	46.4	0.9	2.8	No	No	No	No
2649	32 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.4	48.0	45.9	0.5	2.5	No	No	No	No
2650	46 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.4	47.4	45.3	1.0	2.9	No	No	No	No
2652	29 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	43.9	48.6	46.6	0.8	2.7	No	No	No	No
2653	34 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.7	43.6	48.4	46.3	0.7	2.7	No	No	No	No
2654	36 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.2	48.1	46.0	0.7	2.8	No	No	No	No
2655	50 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	47.9	45.8	1.2	3.2	No	No	No	No
2656	52 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.4	43.4	48.4	46.3	1.0	2.9	No	No	No	No
2657	38 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.2	43.0	47.8	45.8	0.6	2.8	No	No	No	No
2658	42 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.8	43.6	48.4	46.3	0.6	2.7	No	No	No	No

ID	Address	Use	Predicted Noise Levels LAeq(period) dB(A) - Design Year - Noise Barrier								Exceedance of NCG criteria	CNL	Exceeds Relative Increase	Eligible for Mitigation
			Criteria		Do Minimum		Design		Change					
			Day	Night	Day	Night	Day	Night	Day	Night				
2659	40 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.3	43.2	47.9	45.8	0.6	2.6	No	No	No	No
2661	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	58.1	55.1	55.6	53.4	-2.5	-1.7	No	No	No	No
2662	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	53.7	50.4	54.5	52.6	0.8	2.2	Yes	No	No	Yes
2663	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.0	50.6	54.2	52.3	0.2	1.7	Yes	No	No	No
2664	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.7	51.4	54.3	52.3	-0.4	0.9	Yes	No	No	No
2665	2 SIMPSON TERRACE DARLINGTON	Residential	55	50	54.2	50.9	54.2	52.3	0.0	1.4	Yes	No	No	No
2666	1-3 SCOTT STREET SINGLETON	Residential	0	0	39.5	36.8	49.0	47.5	9.5	10.7	No	No	No	No
2667	1 VIEW STREET SINGLETON	Residential	0	0	39.3	36.5	48.2	46.7	8.9	10.2	No	No	No	No
2677	5065 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	60	55	54.7	54.5	56.2	54.2	1.5	-0.3	No	No	No	No
2679	5077 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	60	55	59.8	59.8	61.5	59.6	1.7	-0.2	Yes	Yes	No	Yes
2690	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	47.8	46.5	48.3	46.4	0.5	-0.1	No	No	No	No
2691	58 RIXS CREEK LANE RIXS CREEK	Residential	60	55	49.0	47.9	49.7	47.8	0.7	-0.1	No	No	No	No
2692	5066 NEW ENGLAND HIGHWAY RIXS CREEK	Residential	59	54	51.0	50.4	53.0	51.0	2.0	0.6	No	No	No	No
2694	100 GARDNER CIRCUIT SINGLETON HEIGHTS	Residential	55	50	41.3	39.2	42.7	40.5	1.4	1.3	No	No	No	No
2697	92 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.5	38.4	41.7	39.6	1.2	1.2	No	No	No	No
2698	94 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.5	38.3	41.6	39.5	1.1	1.2	No	No	No	No
2700	96 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.5	38.3	41.7	39.6	1.2	1.3	No	No	No	No
2702	98 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.6	38.3	41.7	39.6	1.1	1.3	No	No	No	No
2703	90 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.6	37.5	40.9	38.7	1.3	1.2	No	No	No	No
2704	88 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.4	37.2	40.7	38.6	1.3	1.4	No	No	No	No
2705	86 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.2	37.0	40.6	38.4	1.4	1.4	No	No	No	No
2706	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.2	36.9	40.6	38.5	1.4	1.6	No	No	No	No
2707	48 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.8	42.8	47.3	45.3	0.5	2.5	No	No	No	No
2708	47 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	42.2	46.1	44.0	0.3	1.8	No	No	No	No
2709	49 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	43.1	47.5	45.4	0.5	2.3	No	No	No	No
2710	51 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	47.6	45.5	0.9	2.9	No	No	No	No
2711	53 D'ARBON AVENUE SINGLETON HEIGHTS	Residential	55	50	46.5	42.6	47.4	45.3	0.9	2.7	No	No	No	No
2712	46 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.5	43.4	48.1	46.0	0.6	2.6	No	No	No	No
2714	48 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.9	42.7	47.7	45.7	0.8	3.0	No	No	No	No
2717	35 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.3	46.6	44.6	0.2	2.3	No	No	No	No
2718	44 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	47.0	42.9	47.4	45.3	0.4	2.4	No	No	No	No
2720	50 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.4	42.3	47.2	45.1	0.8	2.8	No	No	No	No
2721	37 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	44.5	40.5	45.2	43.0	0.7	2.5	No	No	No	No
2722	38 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	43.2	39.4	44.3	42.1	1.1	2.7	No	No	No	No
2723	52 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.0	41.8	46.6	44.5	0.6	2.7	No	No	No	No
2726	54 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.1	39.3	44.4	42.3	1.3	3.0	No	No	No	No
2727	40 HENRY DRIVE SINGLETON HEIGHTS	Residential	55	50	42.6	38.9	43.3	41.2	0.7	2.3	No	No	No	No
2728	56 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	46.7	42.6	47.5	45.5	0.8	2.9	No	No	No	No
2729	60 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	43.2	39.3	44.3	42.2	1.1	2.9	No	No	No	No
2730	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.3	37.7	42.0	39.9	0.7	2.2	No	No	No	No
2731	64 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.2	37.7	42.3	40.1	1.1	2.4	No	No	No	No
2732	58 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	45.8	41.7	46.3	44.1	0.5	2.4	No	No	No	No
2733	62 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	42.6	39.0	43.9	41.8	1.3	2.8	No	No	No	No
2734	3 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	41.2	37.6	42.2	40.1	1.0	2.5	No	No	No	No
2735	2 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	39.7	36.3	40.9	38.8	1.2	2.5	No	No	No	No
2736	4 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	42.2	38.5	43.2	41.0	1.0	2.5	No	No	No	No
2737	1 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.0	36.6	41.2	39.0	1.2	2.4	No	No	No	No
2738	5 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.8	37.2	42.0	39.8	1.2	2.6	No	No	No	No
2739	68 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	41.8	38.5	42.7	40.6	0.9	2.1	No	No	No	No
2740	6 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.2	36.8	41.5	39.3	1.3	2.5	No	No	No	No
2741	6 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.9	38.6	42.8	40.6	0.9	2.0	No	No	No	No
2742	1 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	41.1	37.7	42.0	39.8	0.9	2.1	No	No	No	No
2743	7 MULLER PLACE SINGLETON HEIGHTS	Residential	55	50	40.5	37.2	41.6	39.4	1.1	2.2	No	No	No	No
2744	2 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.3	37.0	41.5	39.3	1.2	2.3	No	No	No	No
2745	5 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	42.2	38.8	43.0	40.9	0.8	2.1	No	No	No	No
2746	1 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.7	38.4	42.7	40.6	1.0	2.2	No	No	No	No
2747	4 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.3	38.3	42.6	40.4	1.3	2.1	No	No	No	No
2748	3 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.8	37.6	41.8	39.7	1.0	2.1	No	No	No	No
2749	2 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	41.1	38.0	42.4	40.3	1.3	2.3	No	No	No	No
2750	4 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.5	37.4	41.9	39.7	1.4	2.3	No	No	No	No
2751	8 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	41.5	38.3	42.5	40.4	1.0	2.1	No	No	No	No
2752	3 LEE CLOSE SINGLETON HEIGHTS	Residential	55	50	40.5	37.7	41.9	39.8	1.4	2.1	No	No	No	No
2753	5 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.4	37.4	41.6	39.5	1.2	2.1	No	No	No	No
2754	74 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.4	37.6	41.5	39.3	1.1	1.7	No	No	No	No
2755	7 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.5	37.7	41.9	39.7	1.4	2.0	No	No	No	No
2757	6 FONTANA WAY SINGLETON HEIGHTS	Residential	55	50	40.4	37.5	41.8	39.6	1.4	2.1	No	No	No	No
2758	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.4	36.2	40.6	38.4	1.2	2.2	No	No	No	No
2759	76 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.3	36.9	40.8	38.6	1.5	1.7	No	No	No	No
2760	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	40.0	37.3	41.5	39.3	1.5	2.0	No	No	No	No
2762	78 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.7	37.1	40.9	38.8	1.2	1.7	No	No	No	No
2763	82 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.3	36.8	40.5	38.4	1.2	1.6	No	No	No	No
2764	84 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.6	37.2	40.8	38.7	1.2	1.5	No	No	No	No
2765	80 LACHLAN AVENUE SINGLETON HEIGHTS	Residential	55	50	39.8	37.3	40.8	38.7	1.0	1.4	No	No	No	No
2766	5022 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	52.6	50.2	54.6	52.5	2.0	2.3	Yes	No	No	Yes
2130	4862 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	65.0	62.1	64.5	62.4	-0.5	0.3	Yes	Yes	No	Yes
2229	4864 NEW ENGLAND HIGHWAY MCDOUGALLS HILL	Residential	55	50	60.0	57.0	61.6	59.4	1.6	2.4	Yes	Yes	No	Yes

Note: * Facade with the greatest change in noise levels

Appendix G

Traffic Noise Contours



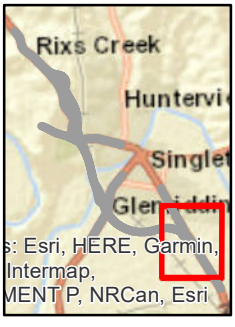
Singleton Bypass - Noise Contours Do Minimum - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | >65



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N

0 100 200 400 m

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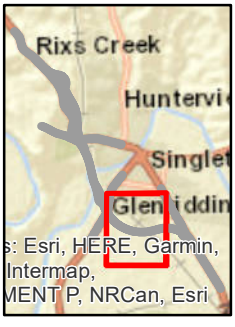
Singleton Bypass - Noise Contours Do Minimum - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

- <55
- 55
- 59



AECOM

N

0 100 200 400 m

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Singleton Bypass - Noise Contours Do Minimum - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 59 | 61 | >65



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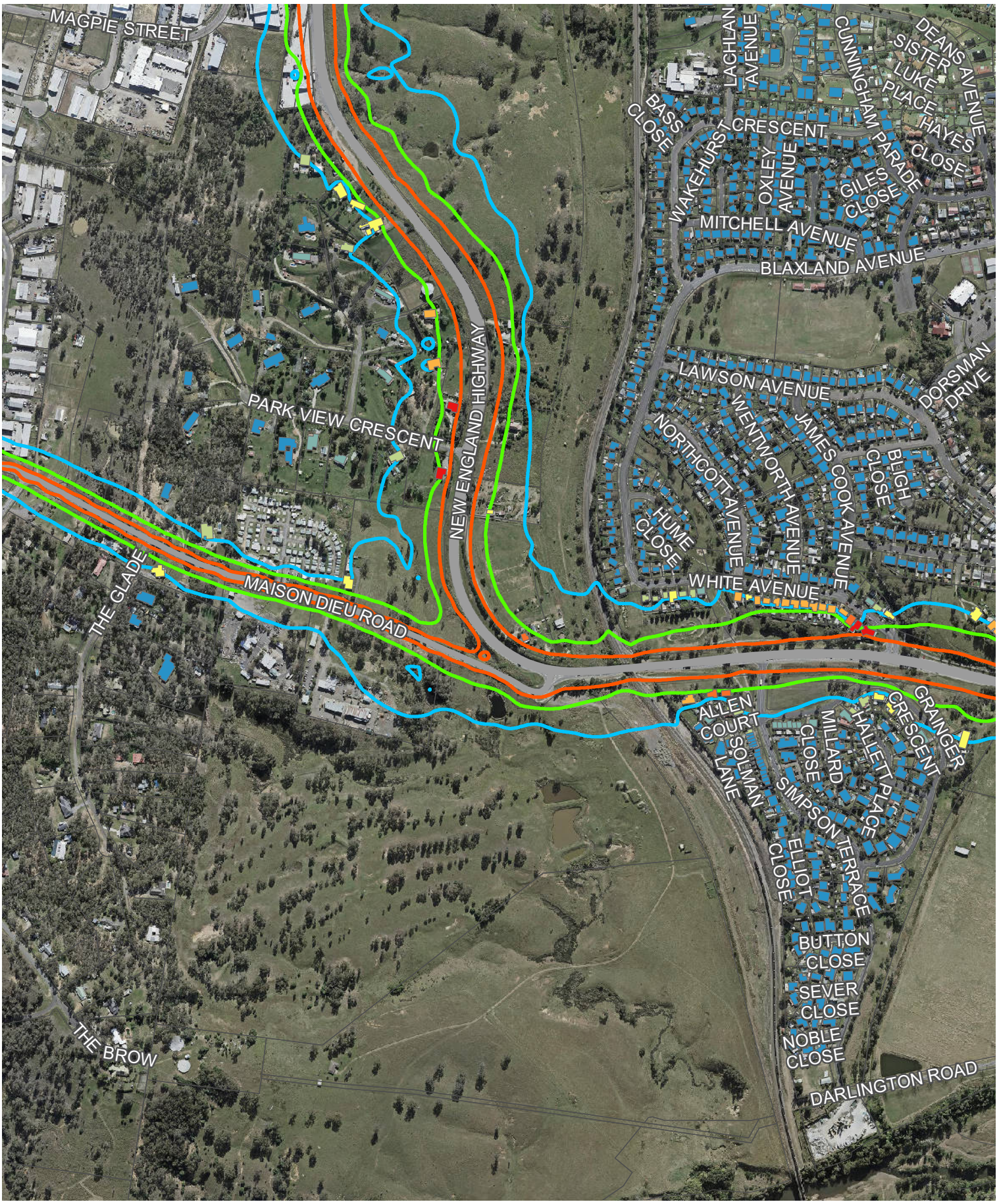
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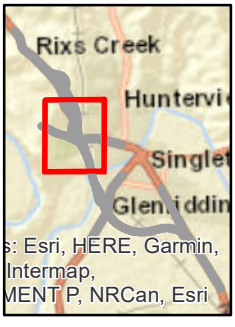
Singleton Bypass - Noise Contours Do Minimum - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63 | >65



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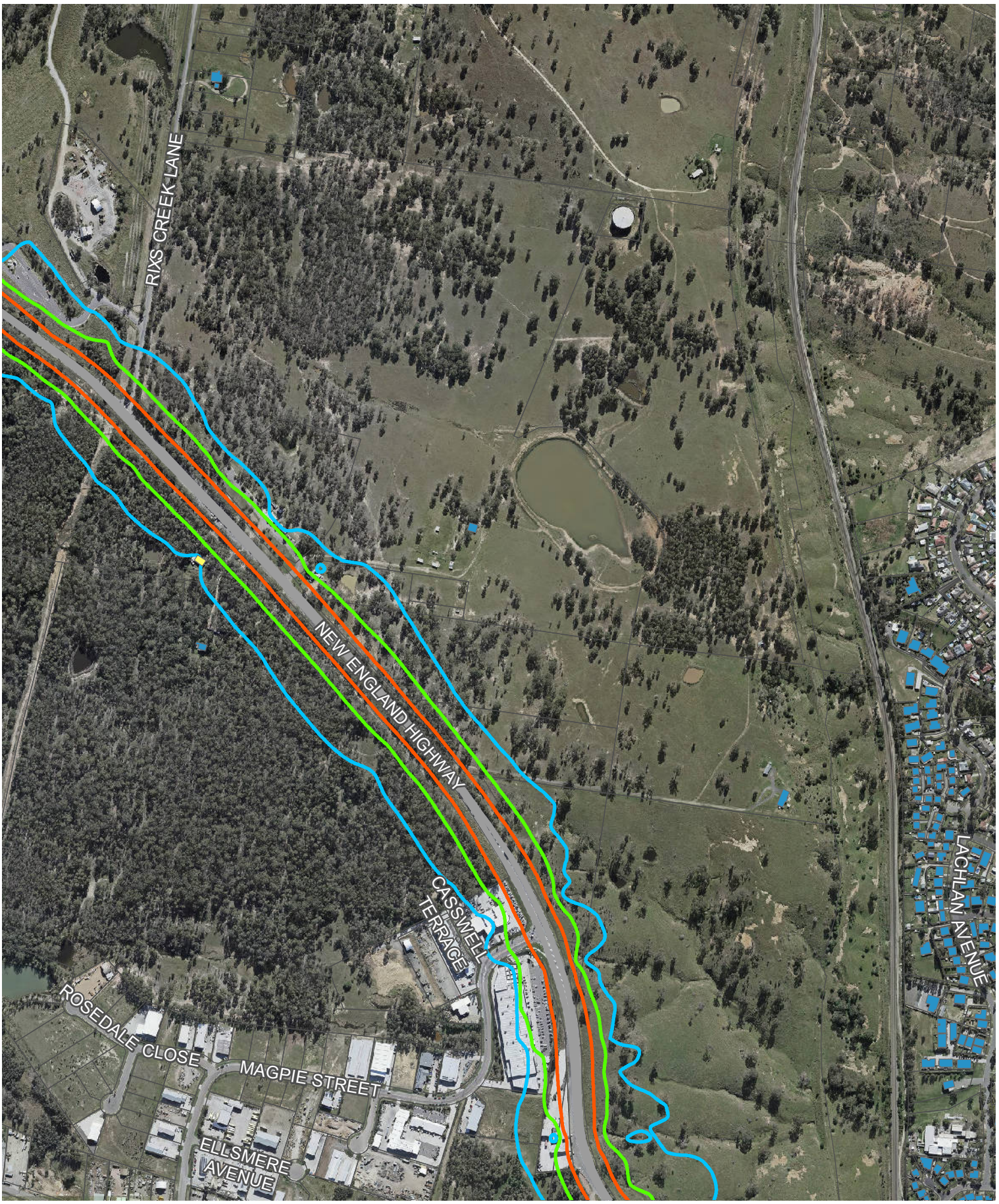
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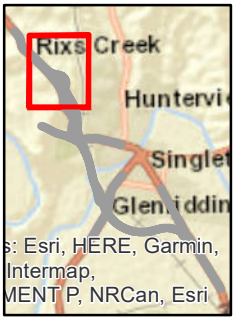
Singleton Bypass - Noise Contours Do Minimum - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 59



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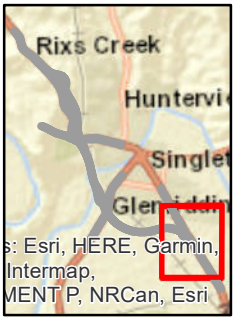
Singleton Bypass - Noise Contours Do Minimum - Year of Opening - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
- 55
- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<50 | 50 | 52 | 54 | 56 | 58 | >60



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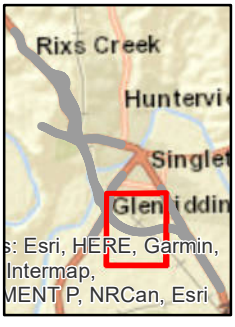
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- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

< 50 | 50 | 52 | 56



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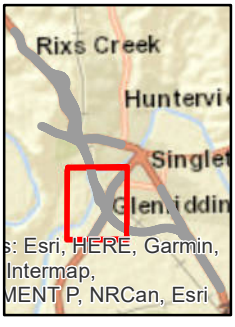
Singleton Bypass - Noise Contours Do Minimum - Year of Opening - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
- 55
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

< 50 | 50 | 52 | 56 | 58 | > 60



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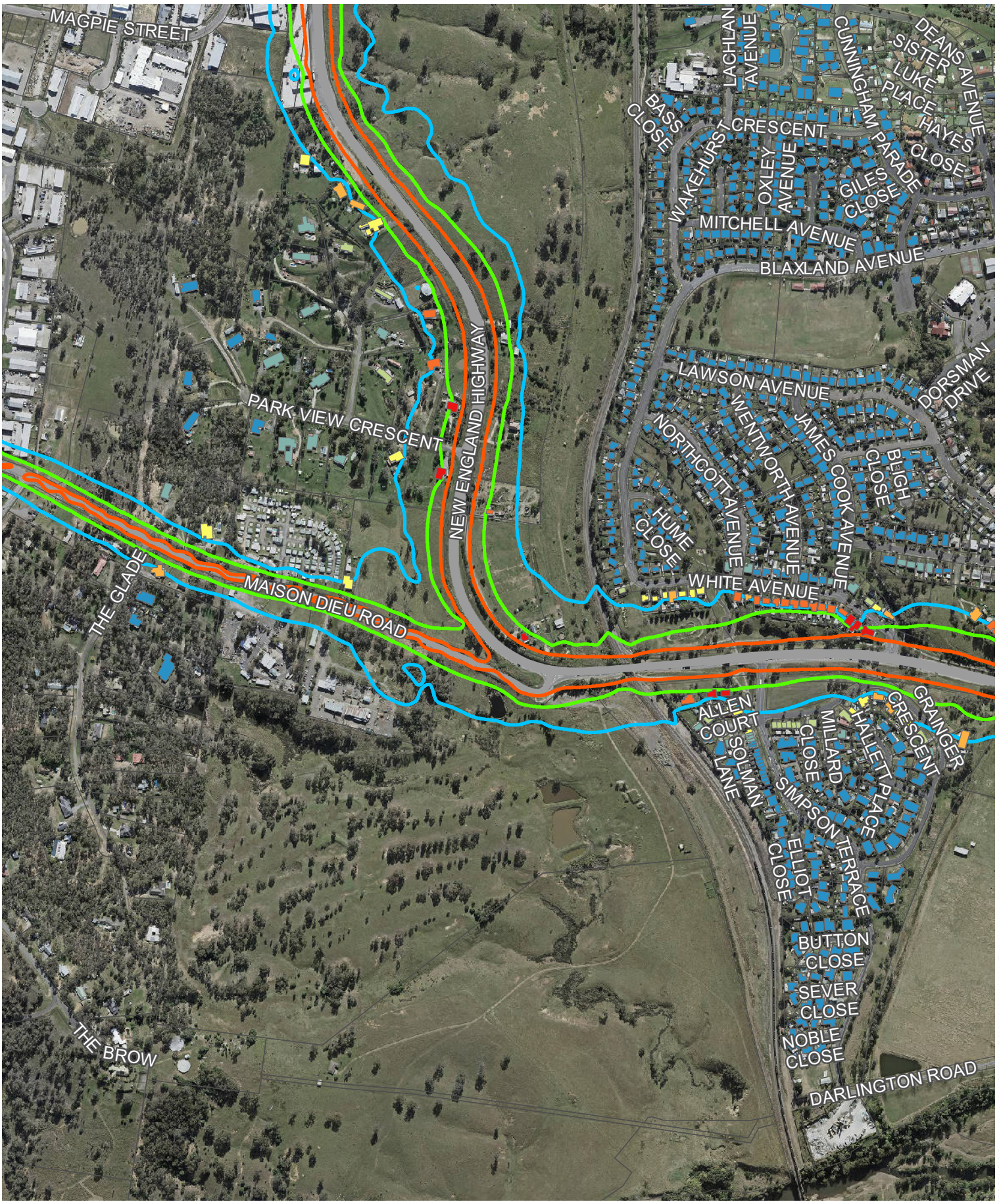
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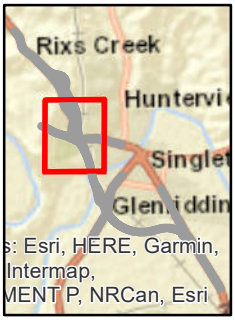
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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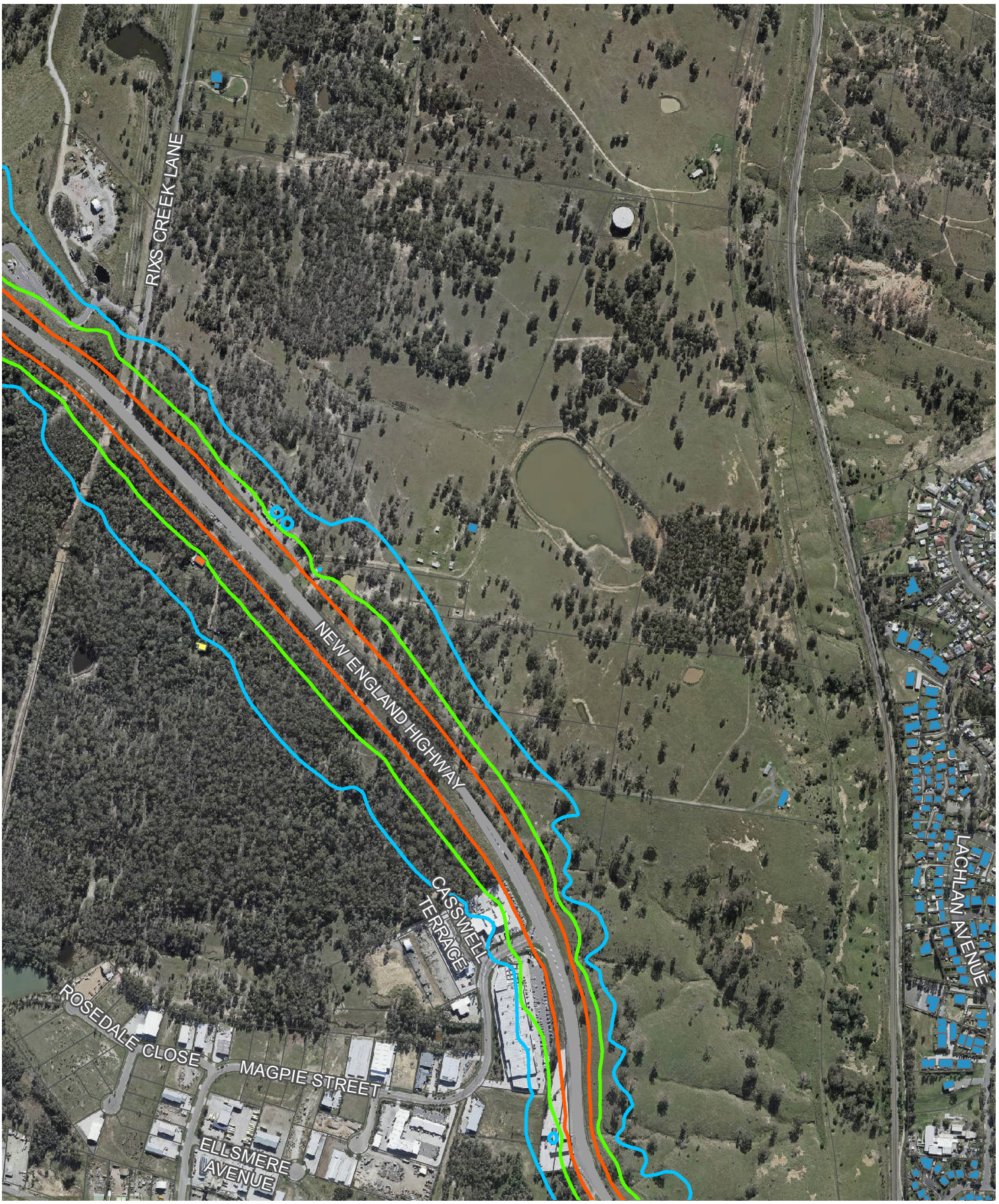
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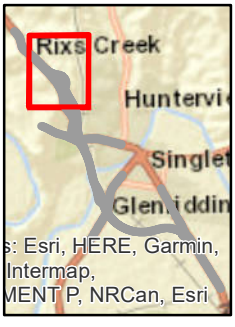
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- 50
- 55
- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<50 54 58



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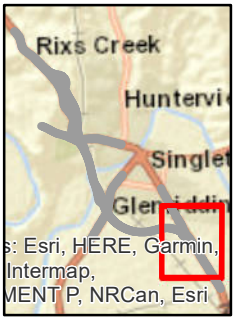
Singleton Bypass - Noise Contours Do Minimum - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63 | >65



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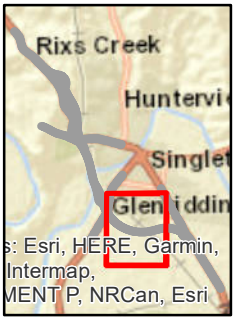
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- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

- <55
- 55
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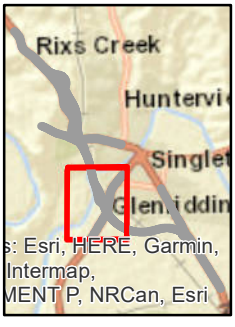
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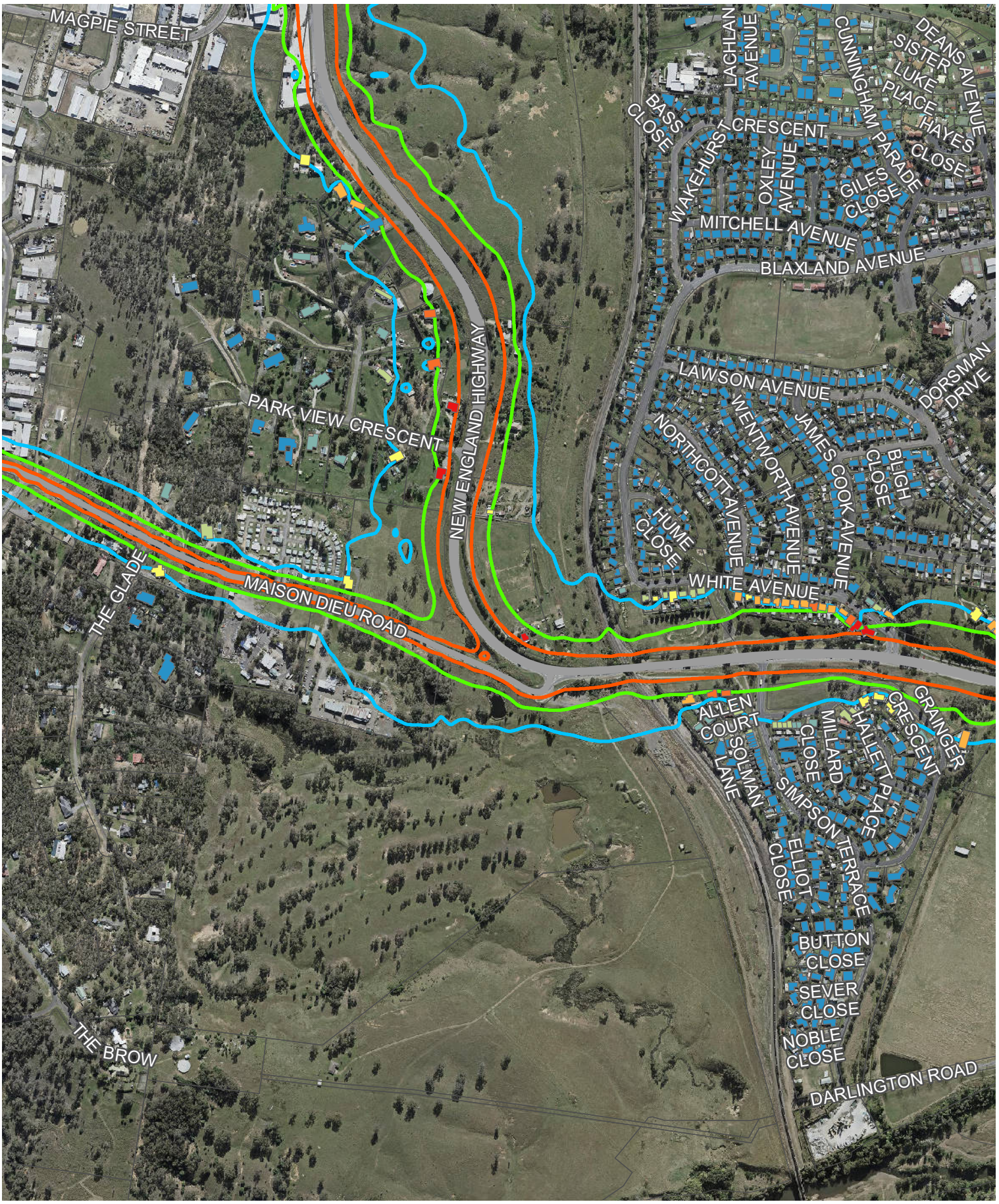
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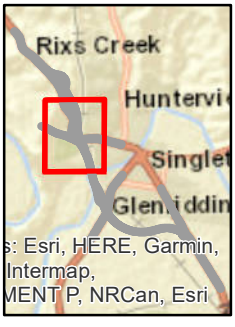
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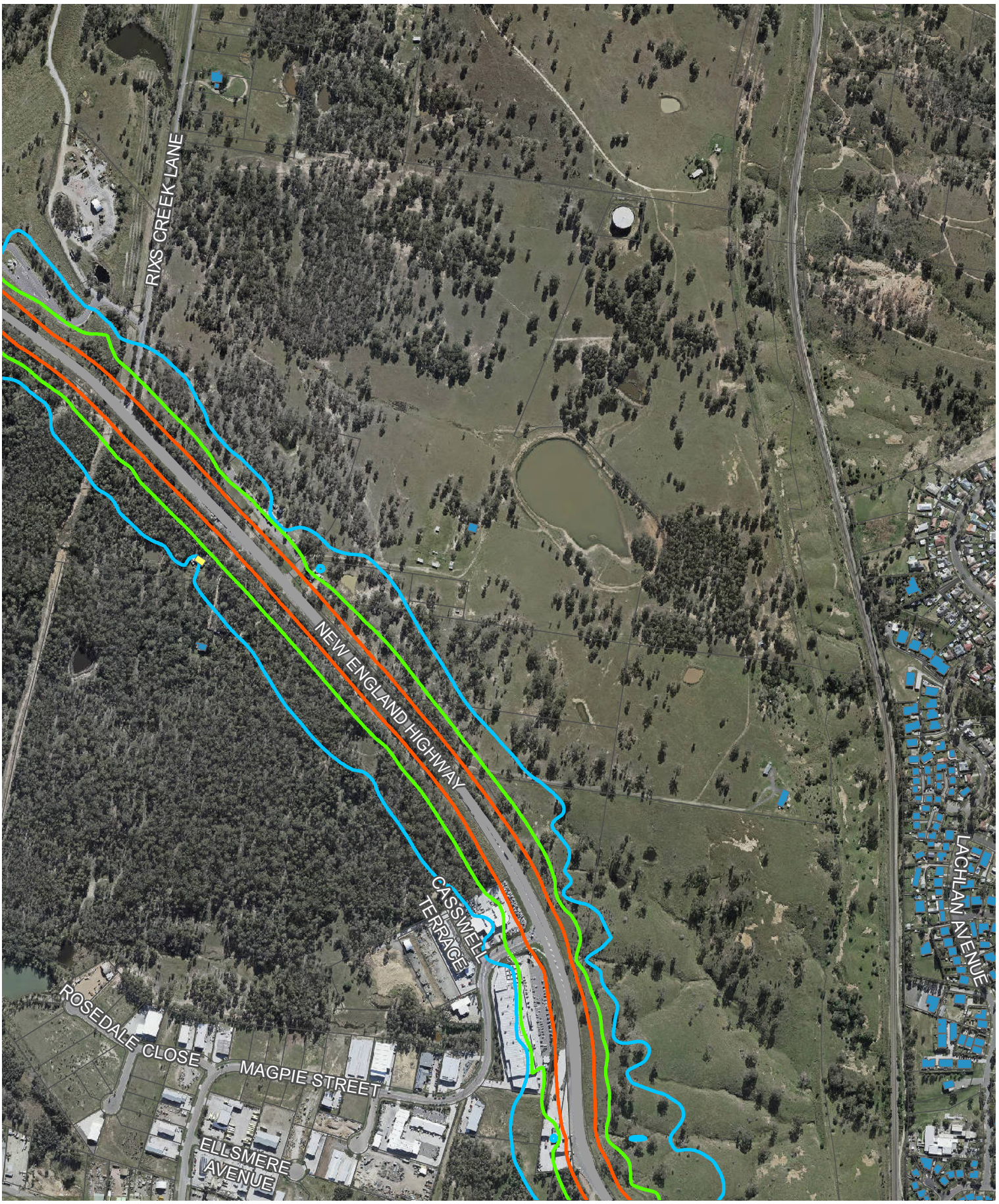
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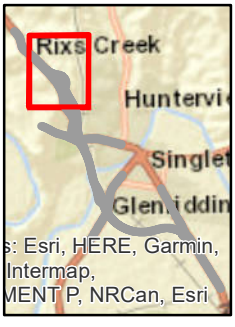
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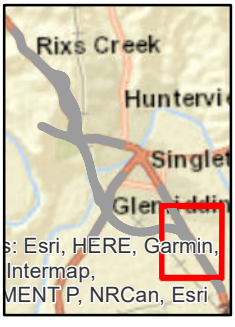
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Free Field Sound Pressure Level, L_{Aeq} dBA

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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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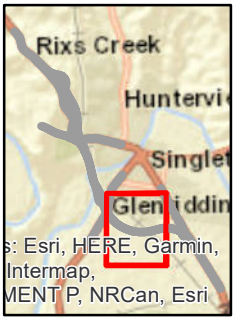
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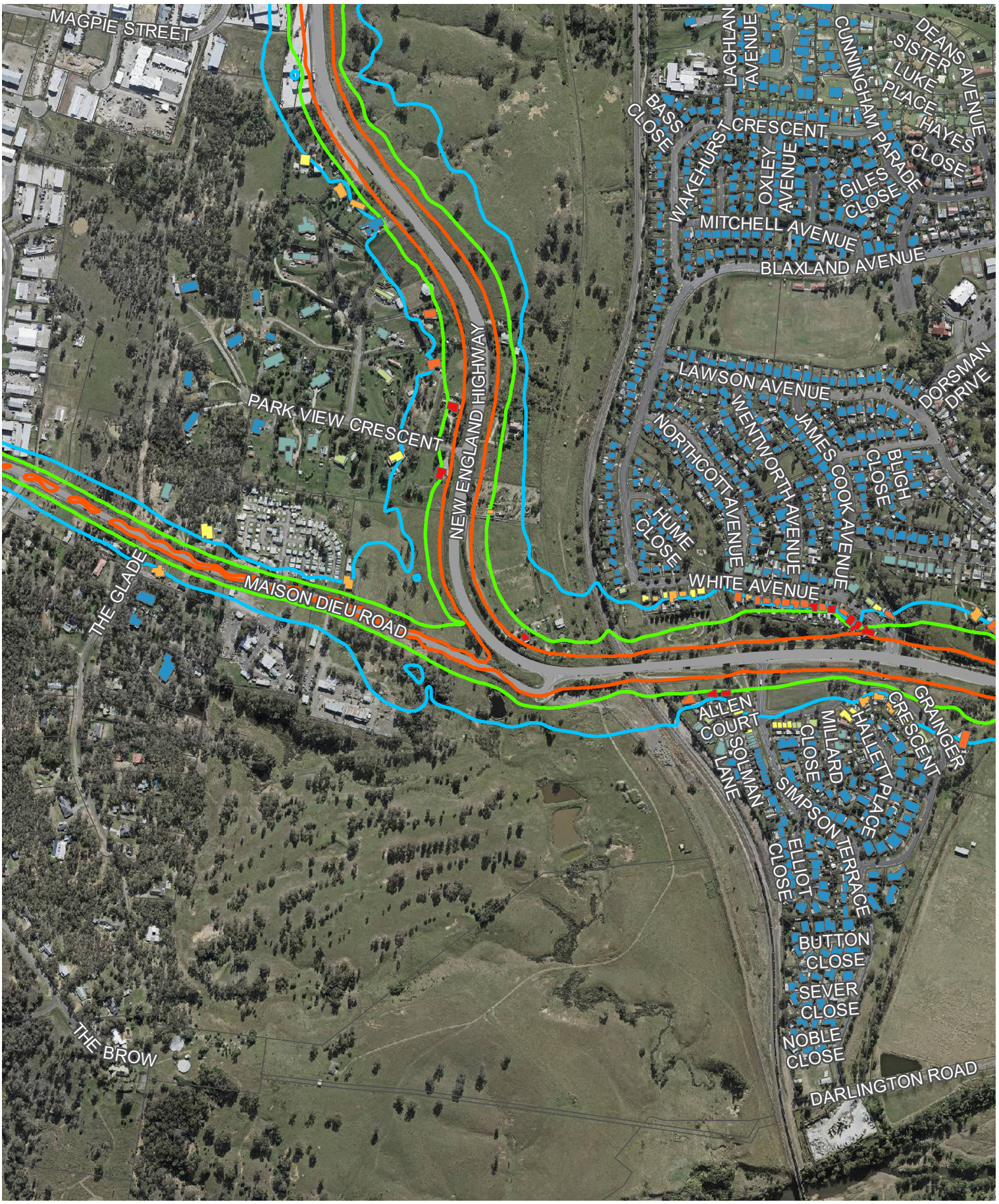
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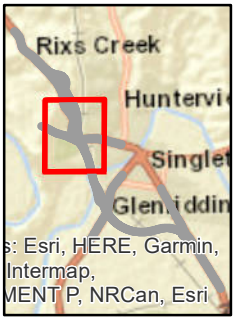
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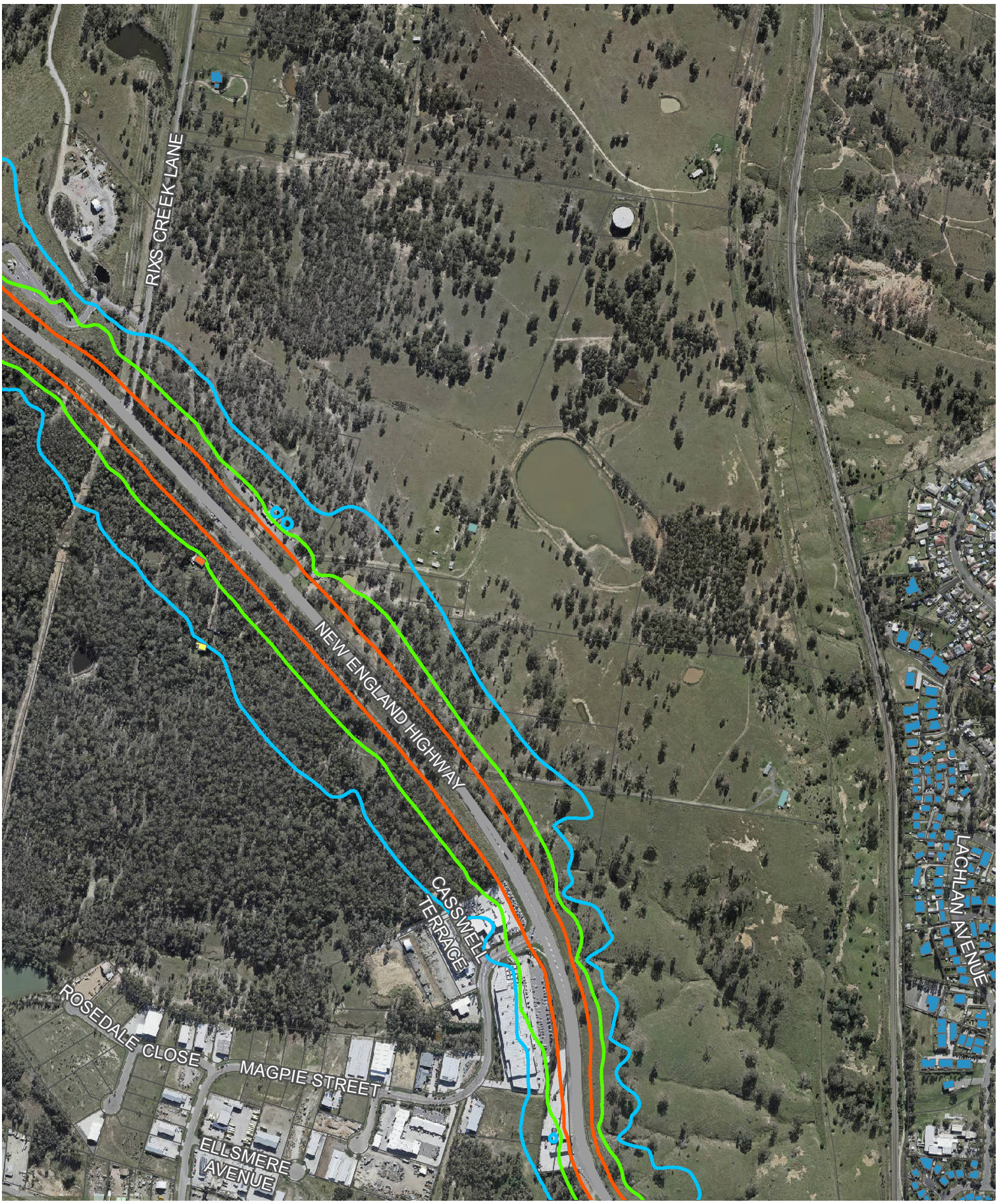
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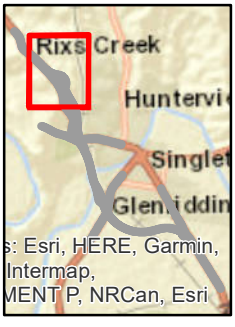
Singleton Bypass - Noise Contours Do Minimum - Design Year - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
- 55
- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

< 50 | 50 | 54 | 58



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N

0 100 200 400 m

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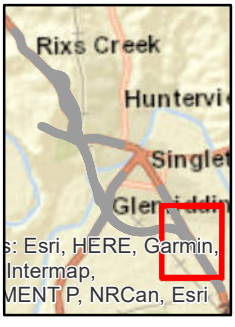
Singleton Bypass - Noise Contours - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63 | >65



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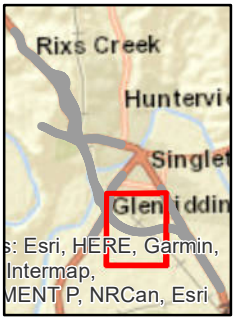
Singleton Bypass - Noise Contours - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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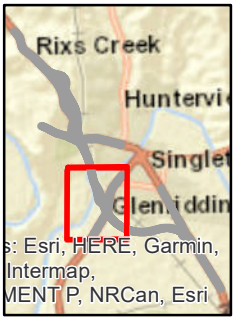
Singleton Bypass - Noise Contours - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63 | >65



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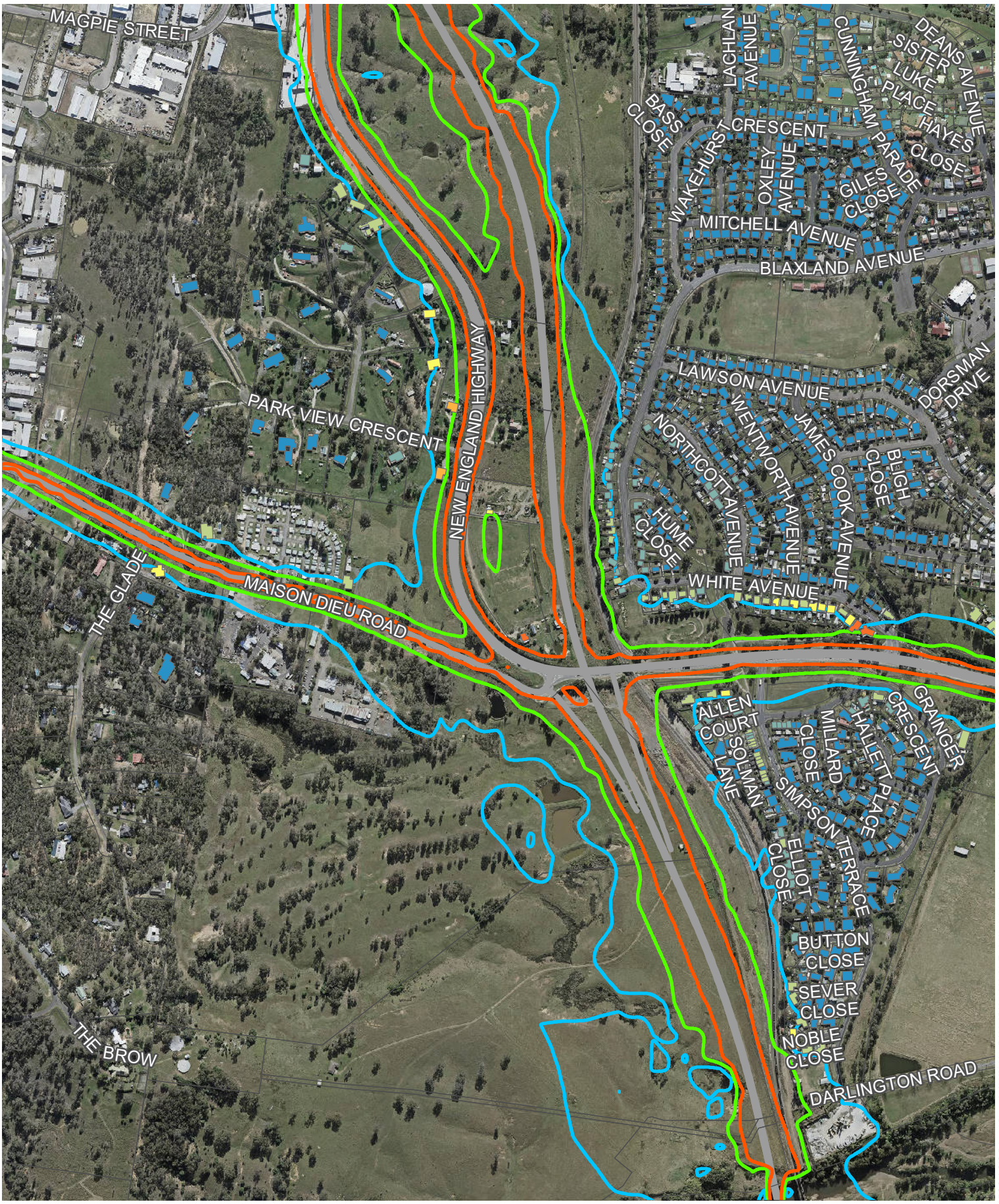
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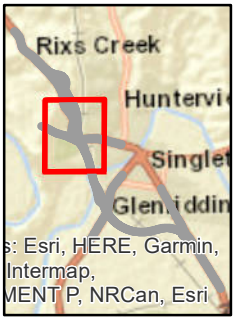
Singleton Bypass - Noise Contours - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63



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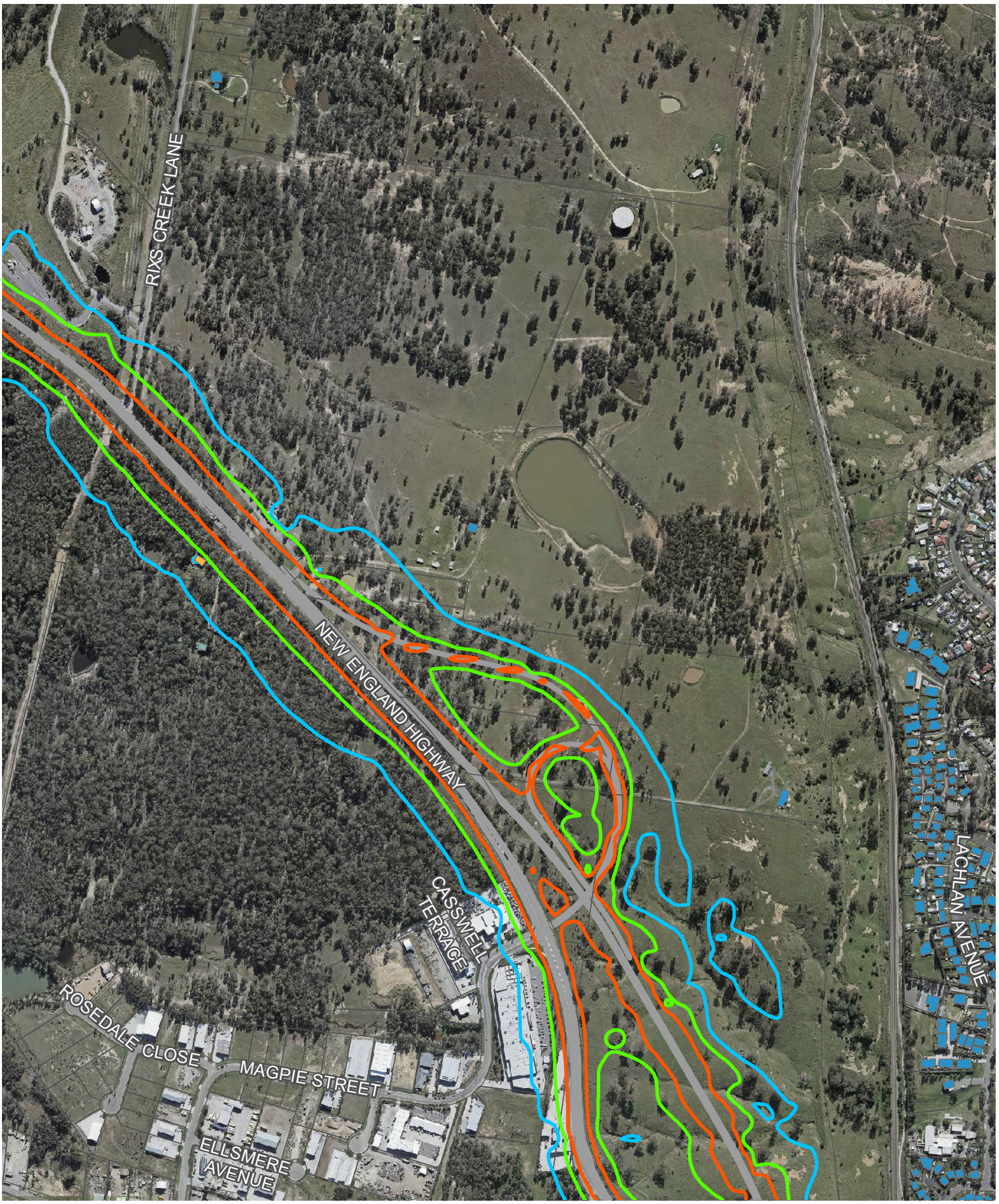
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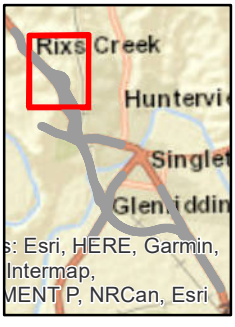
Singleton Bypass - Noise Contours - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 55 61



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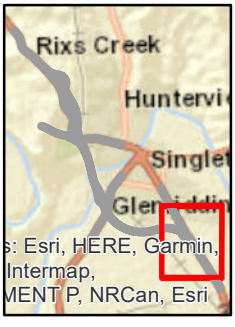
Singleton Bypass - Noise Contours - Year of Opening - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
- 55
- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

< 50 | 50 | 52 | 54 | 56 | 58 | > 60



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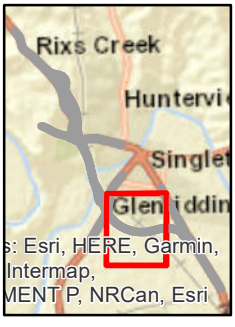
Singleton Bypass - Noise Contours - Year of Opening - Night-time

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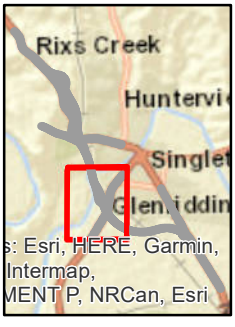
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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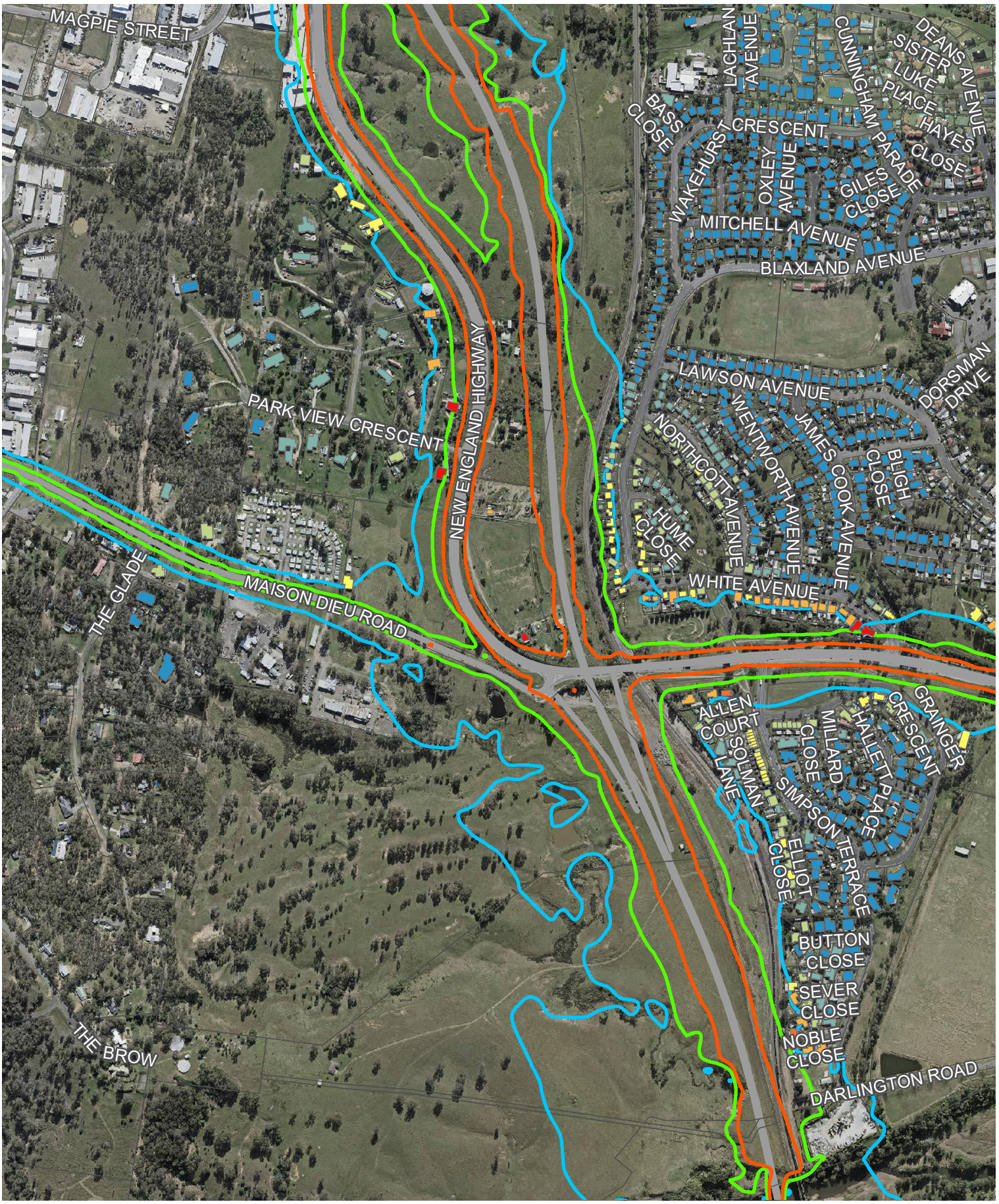
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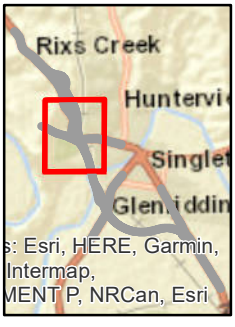
Singleton Bypass - Noise Contours - Year of Opening - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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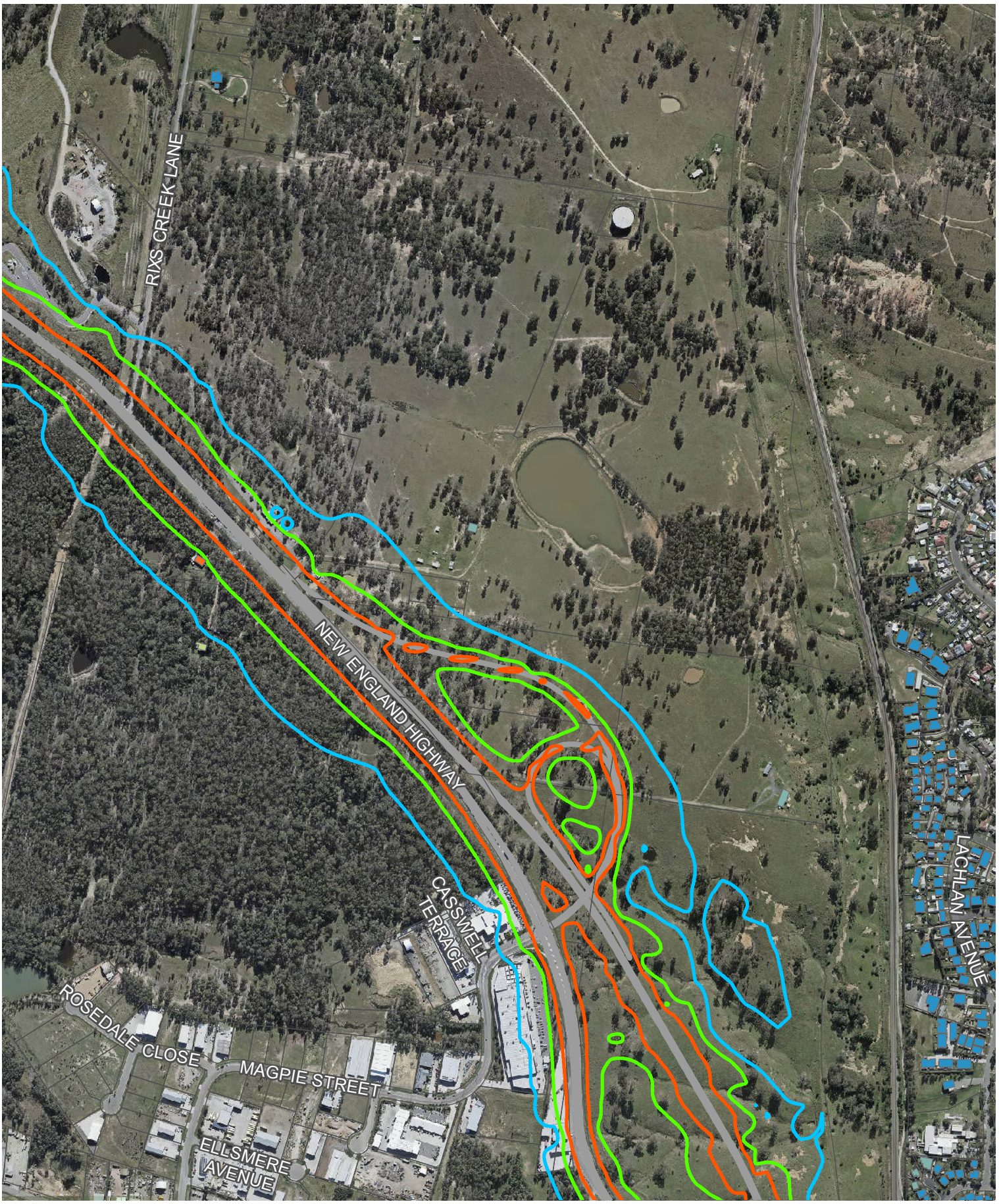
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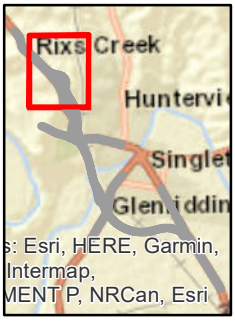
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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Singleton Bypass - Noise Contours - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63 | >65



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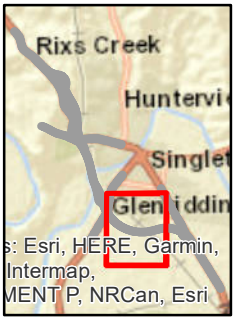
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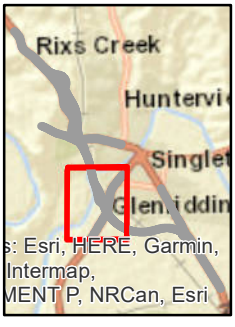
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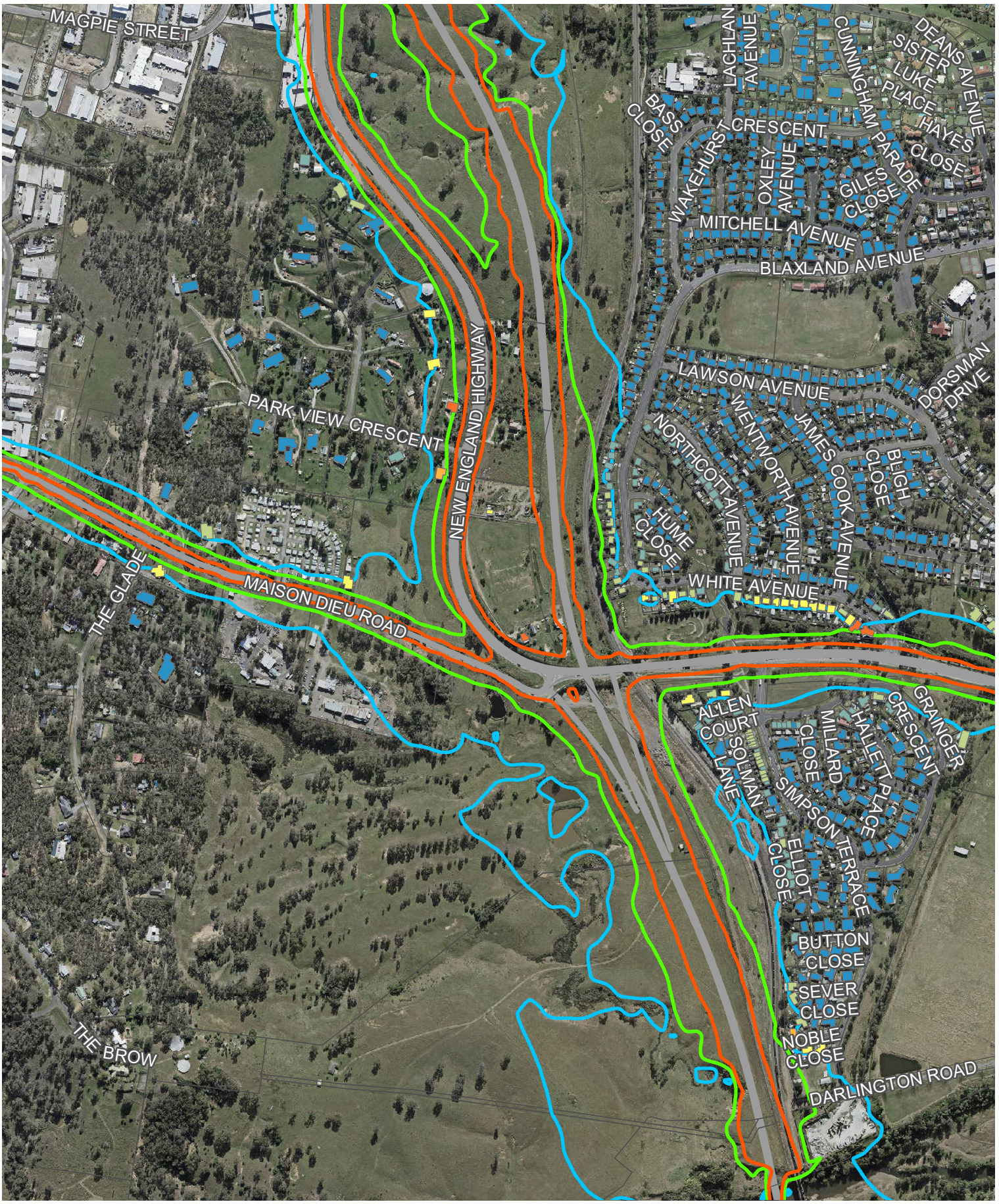
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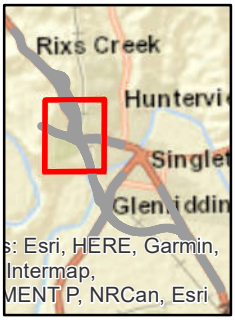
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- 60
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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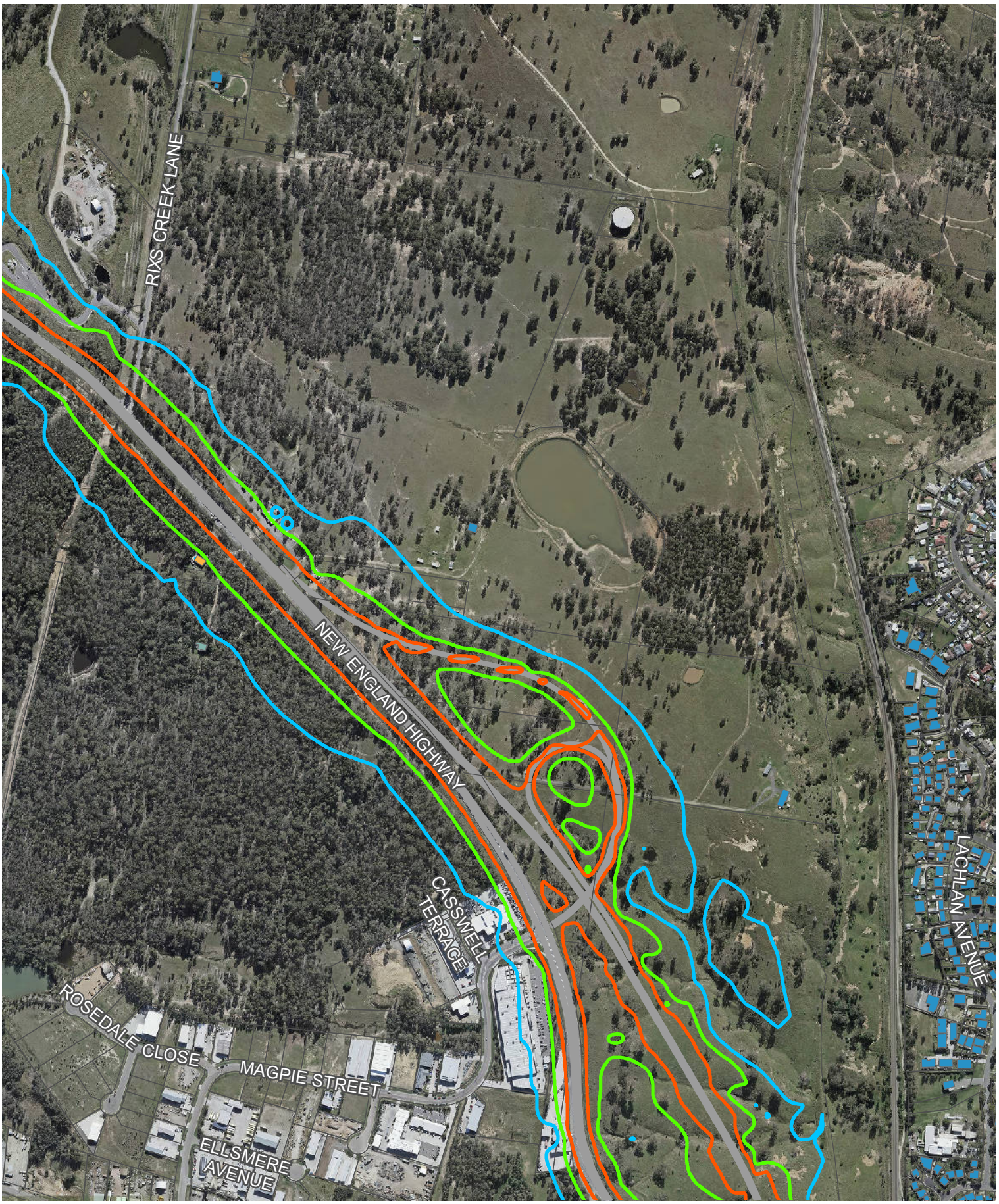
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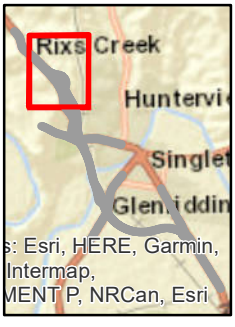
Singleton Bypass - Noise Contours - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 55 61



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0 100 200 400 m

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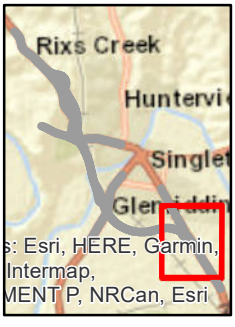
Singleton Bypass - Noise Contours - Design Year - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
- 55
- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

< 50 | 50 | 52 | 54 | 56 | 58 | > 60



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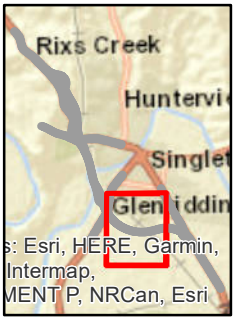
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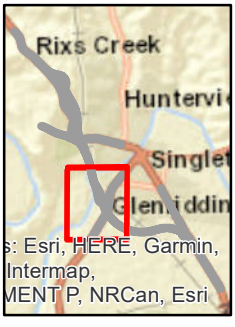
Singleton Bypass - Noise Contours - Design Year - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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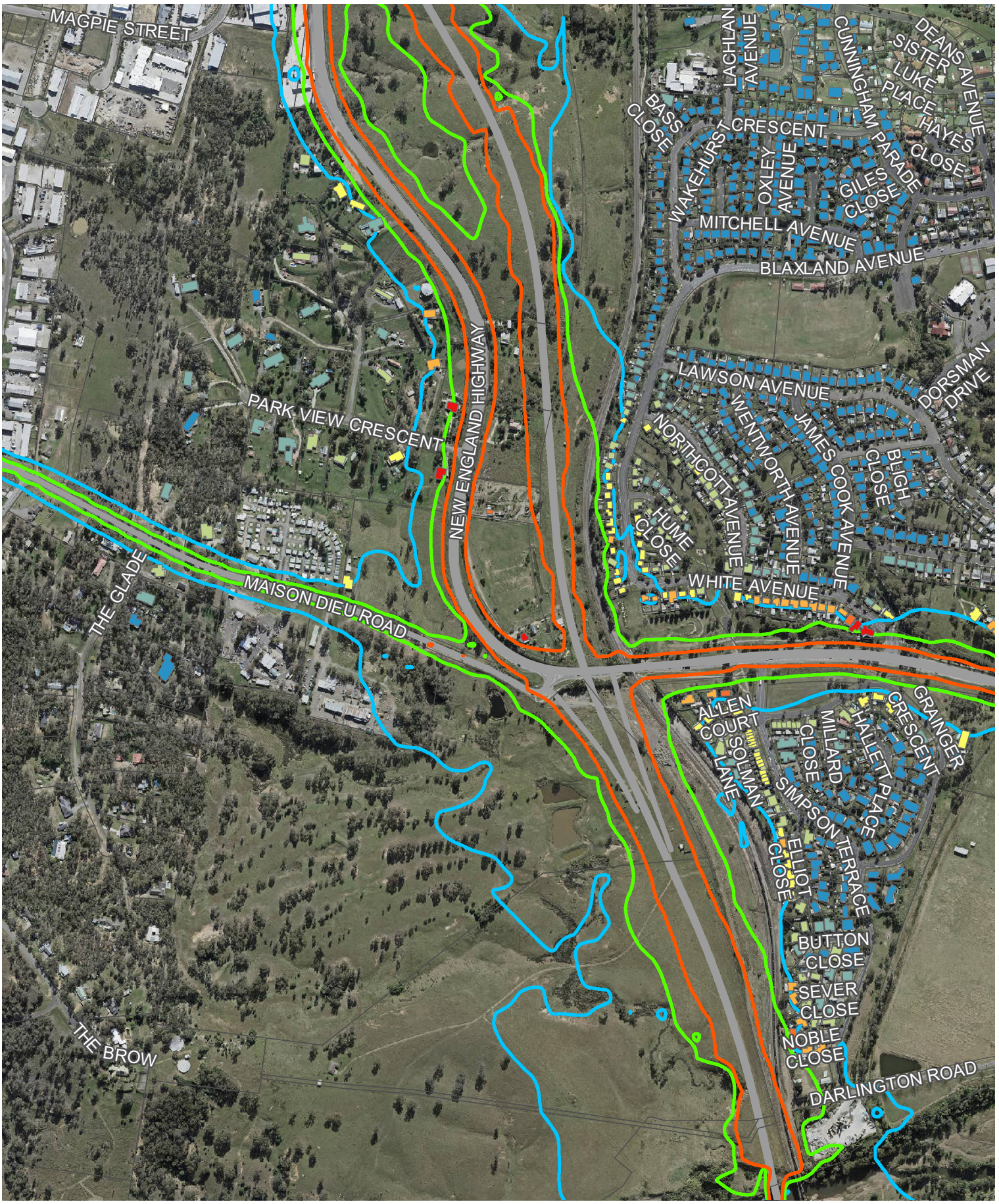
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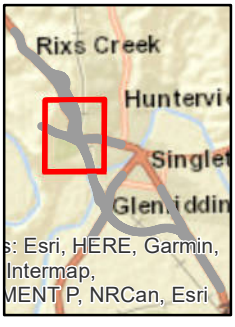
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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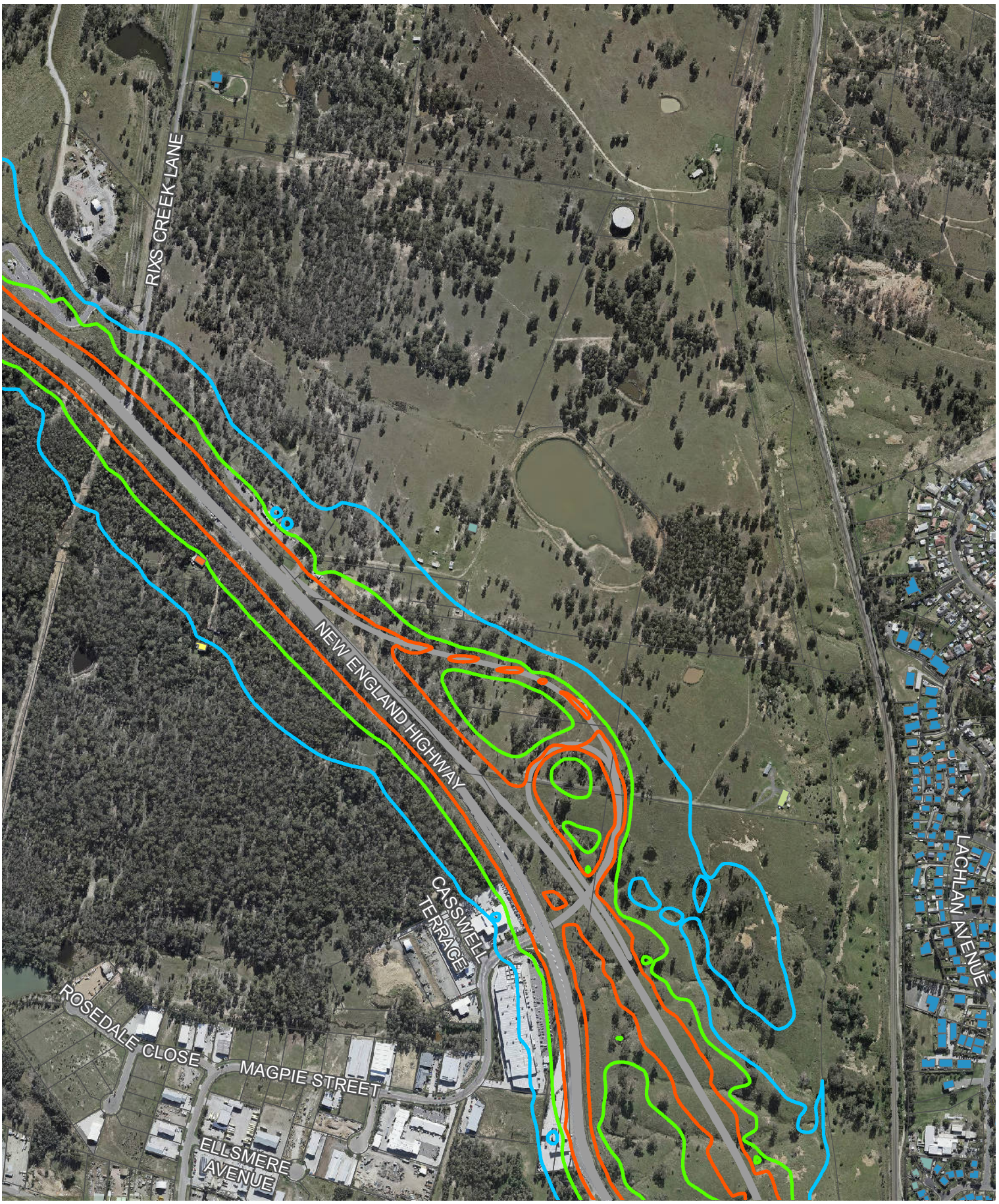
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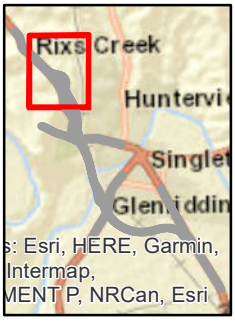
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- 55
- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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Singleton Bypass - Noise Contours With Noise Barrier - Year of Opening - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63 | >65



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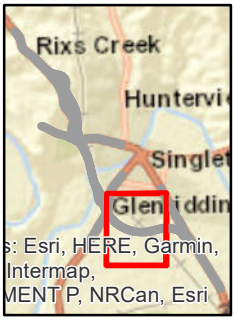
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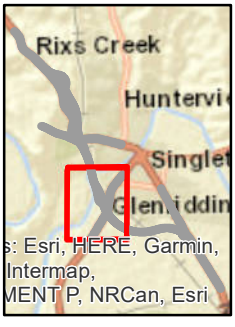
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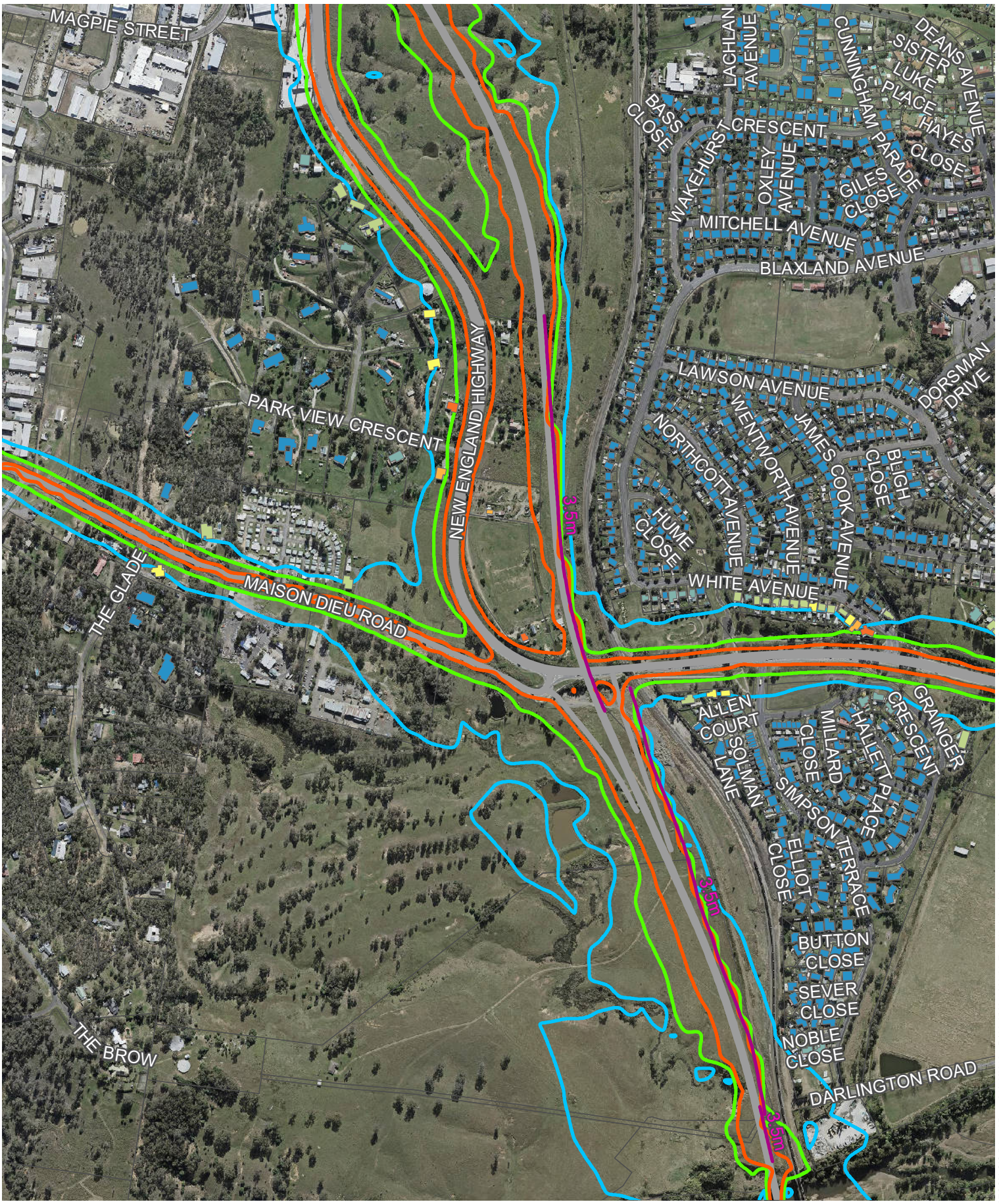
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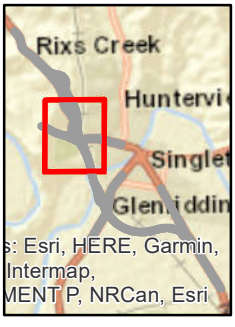
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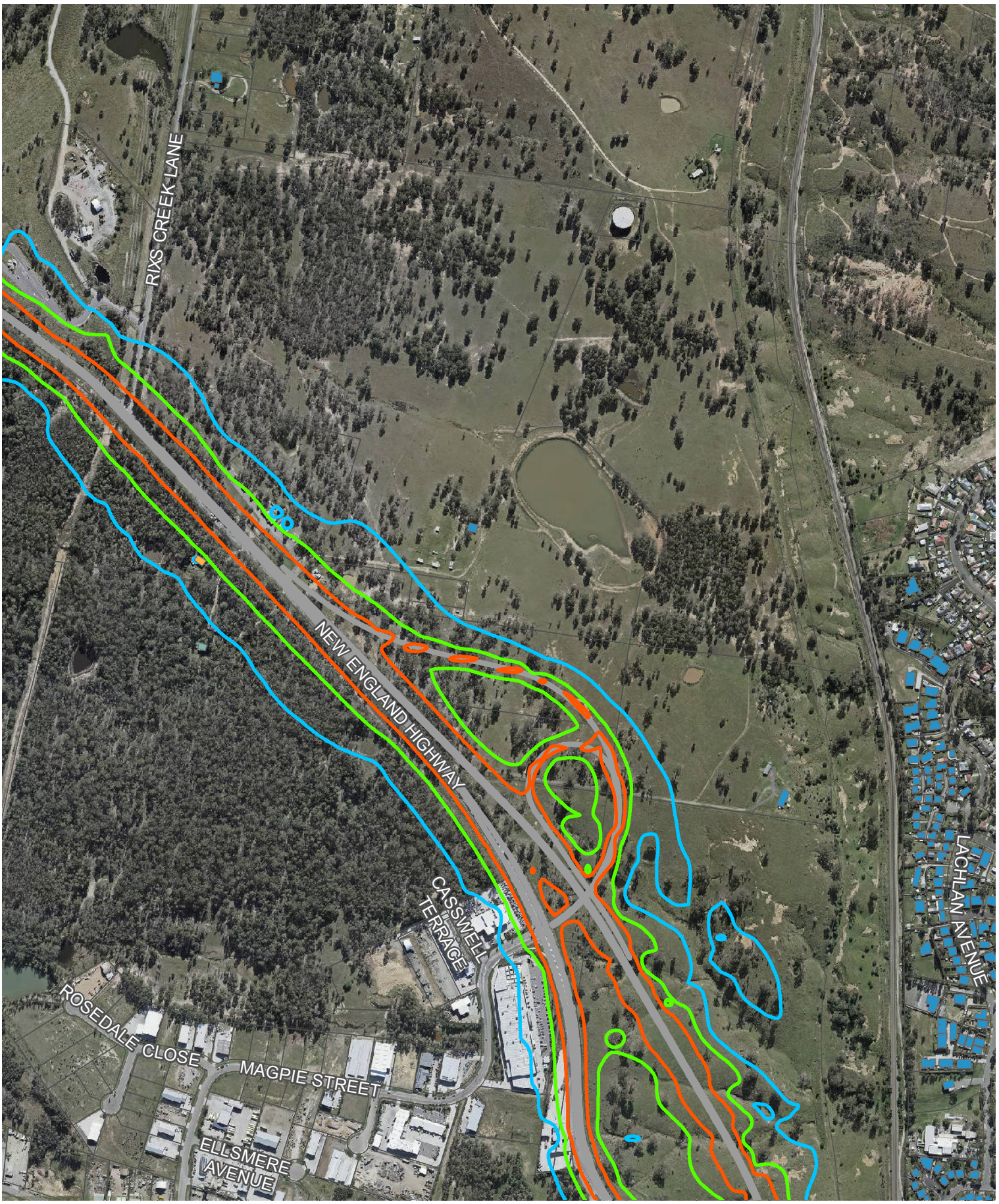
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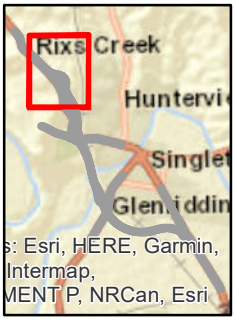
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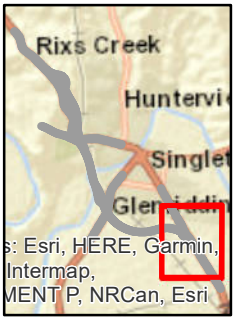
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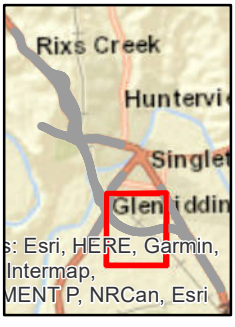
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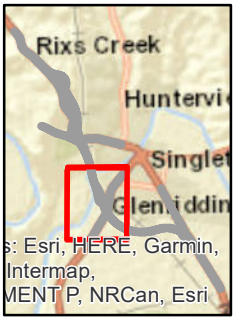
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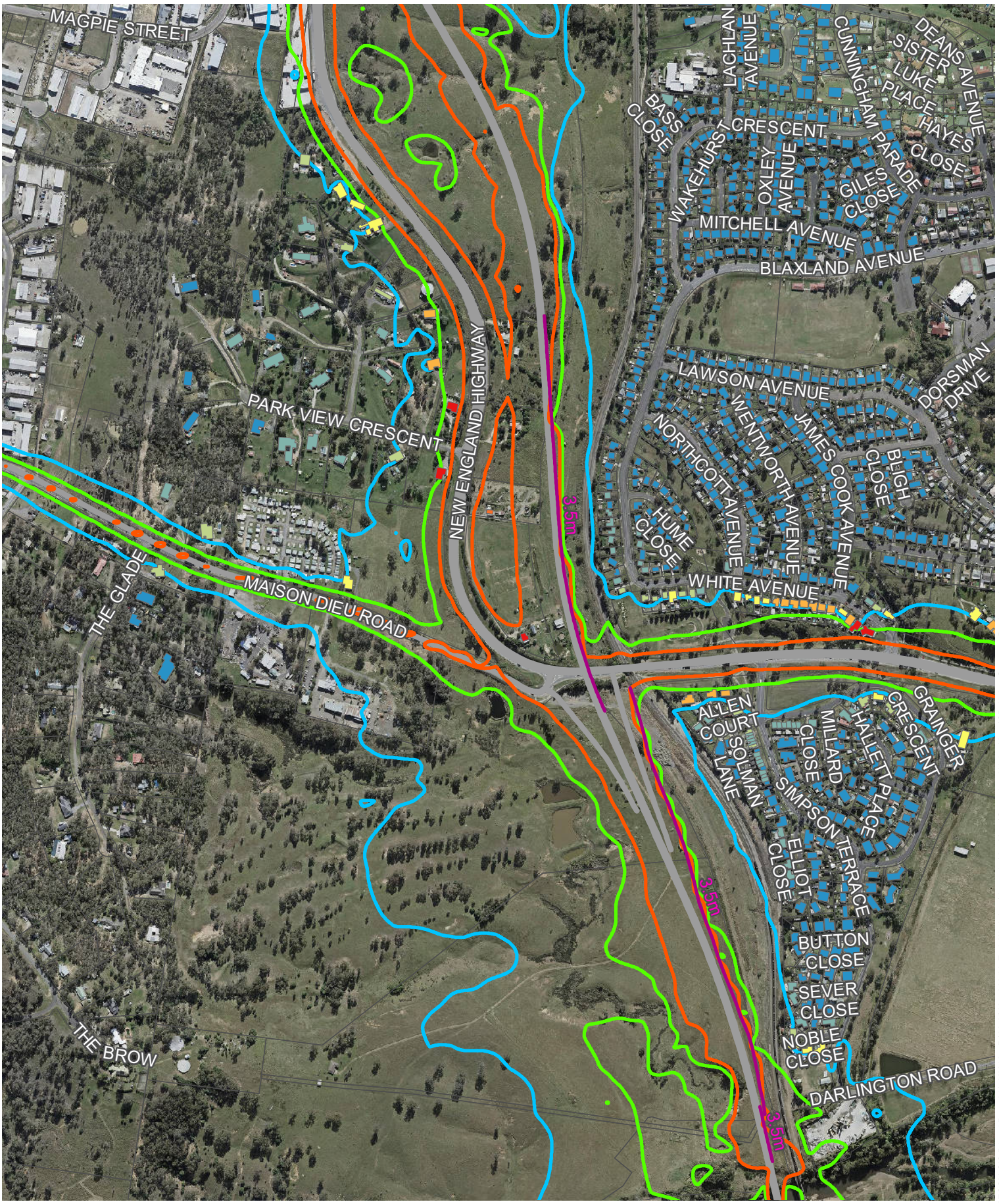
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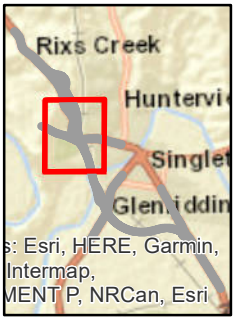
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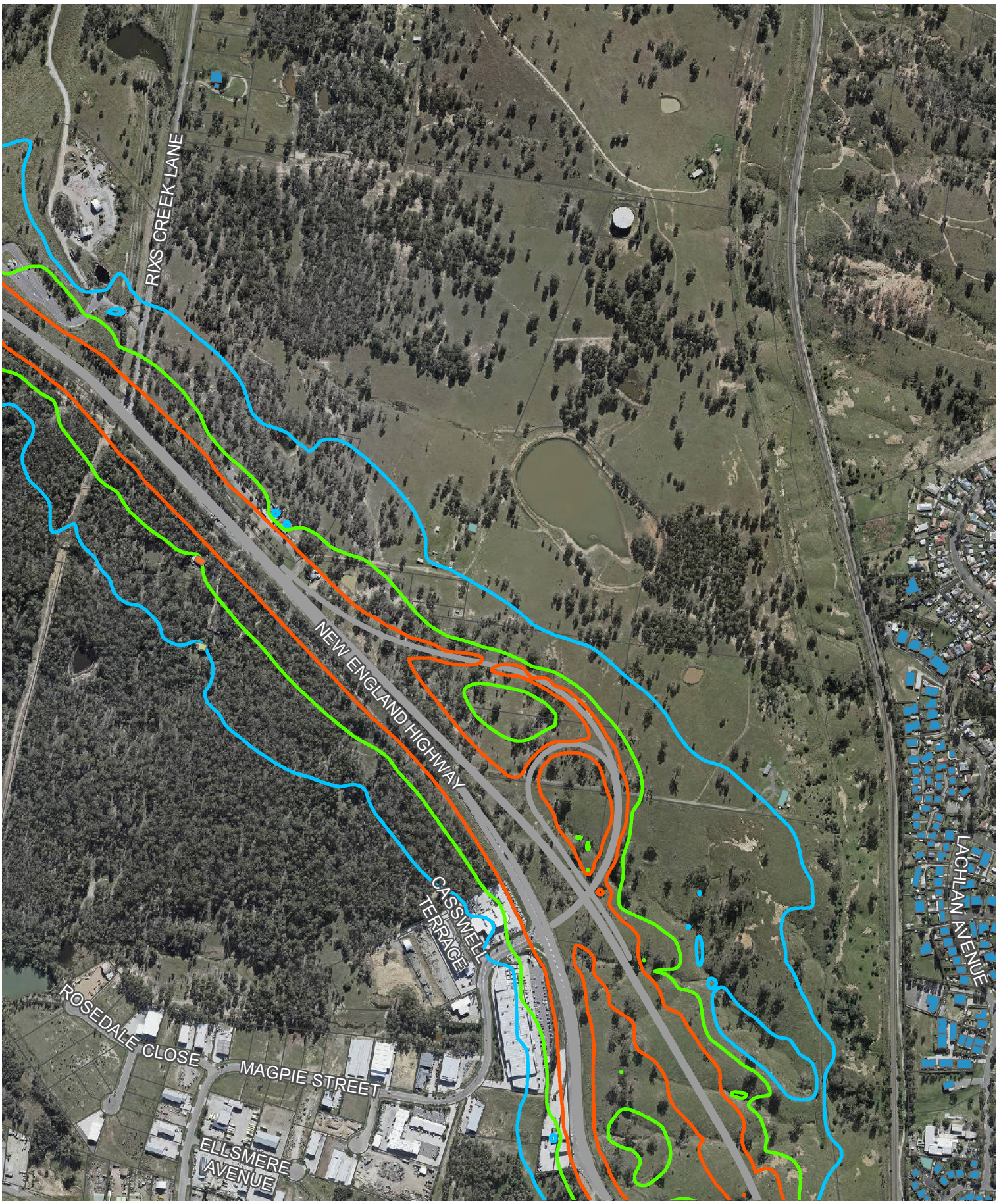
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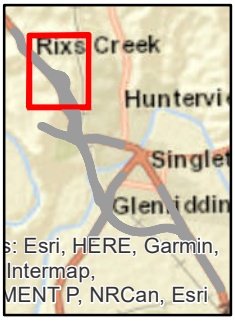
Singleton Bypass - Noise Contours With Noise Barrier - Year of Opening - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
- 55
- 60

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<50 50 52 58



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0 100 200 400 m

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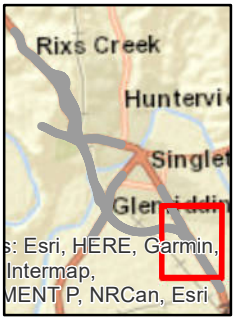
Singleton Bypass - Noise Contours With Noise Barrier - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 57 | 59 | 61 | 63 | >65



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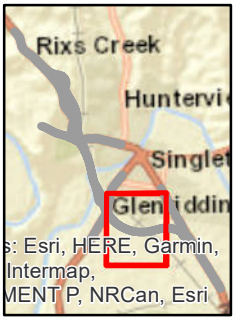
Singleton Bypass - Noise Contours With Noise Barrier - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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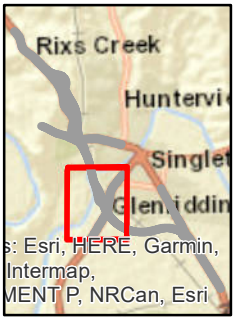
Singleton Bypass - Noise Contours With Noise Barrier - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

< 55 | 55 | 57 | 59 | 61 | 63 | > 65



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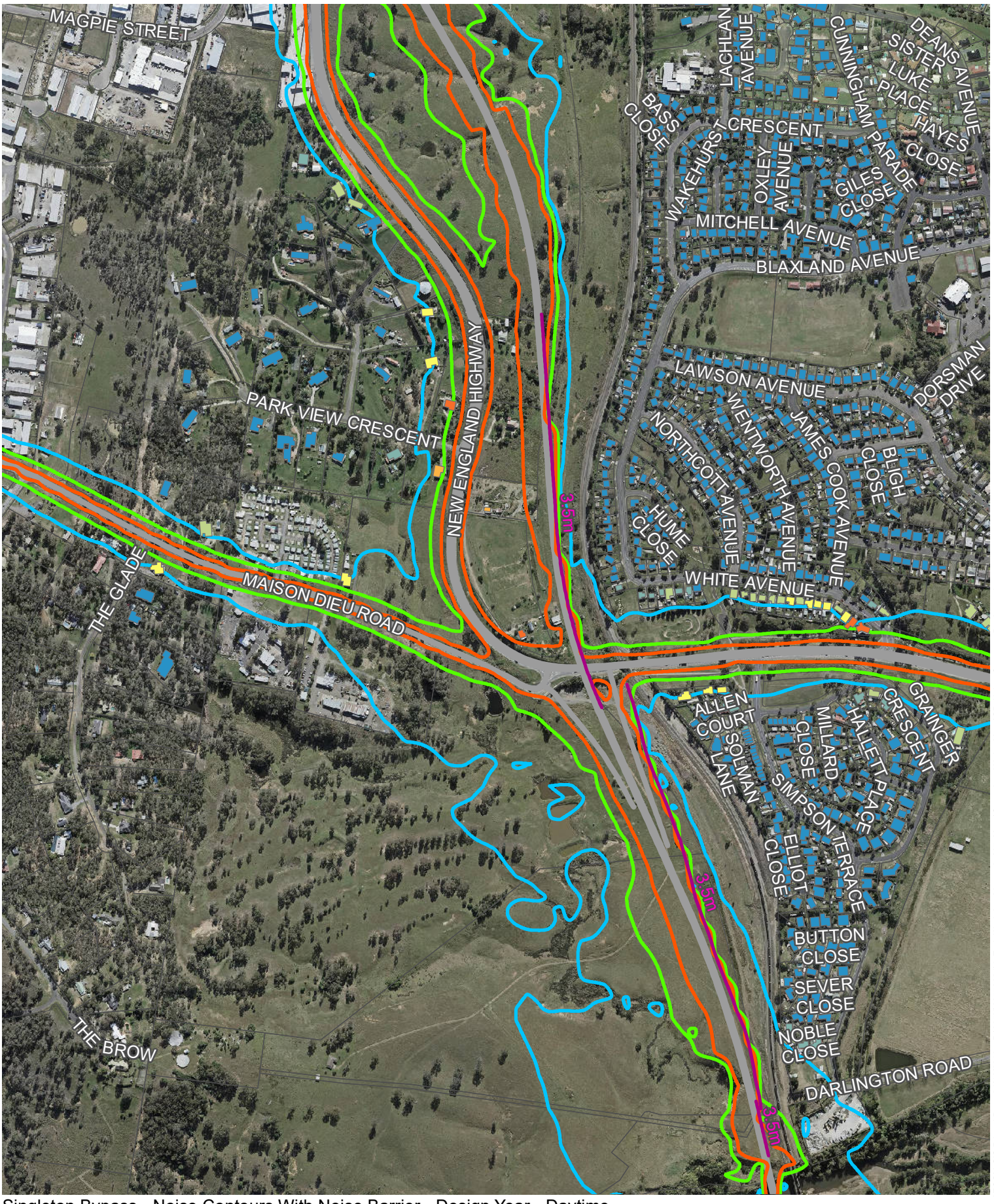
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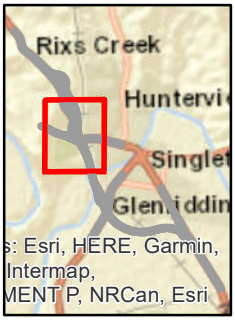
Singleton Bypass - Noise Contours With Noise Barrier - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 | 55 | 57 | 59 | 61 | 63



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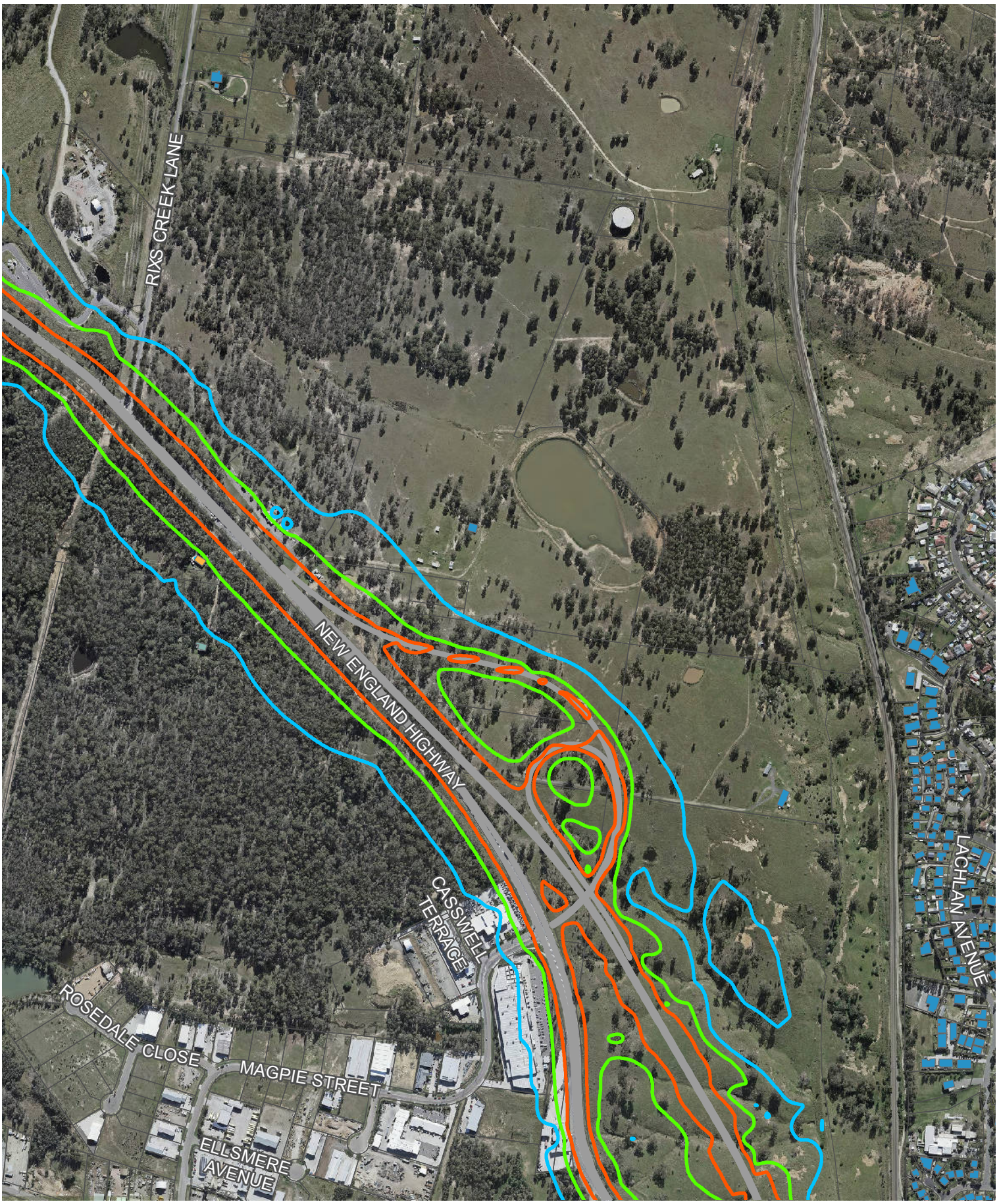
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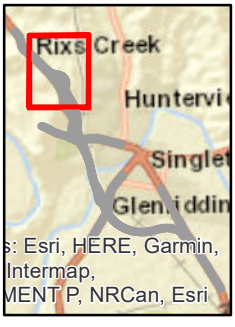
Singleton Bypass - Noise Contours With Noise Barrier - Design Year - Daytime

Free Field Sound Pressure Level, L_{Aeq} dBA

- 55
- 60
- 65

Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<55 55 61



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0 100 200 400 m

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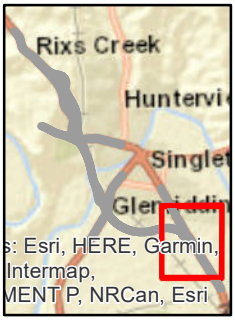
Singleton Bypass - Noise Contours With Noise Barrier - Design Year - Night-time

Free Field Sound Pressure Level, L_{Aeq} dBA

- 50
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

< 50 | 50 | 52 | 54 | 56 | 58 | > 60



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0 100 200 400 m

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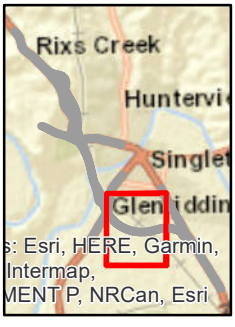
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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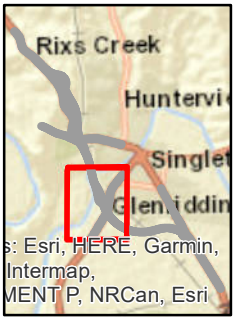
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Free Field Sound Pressure Level, L_{Aeq} dBA

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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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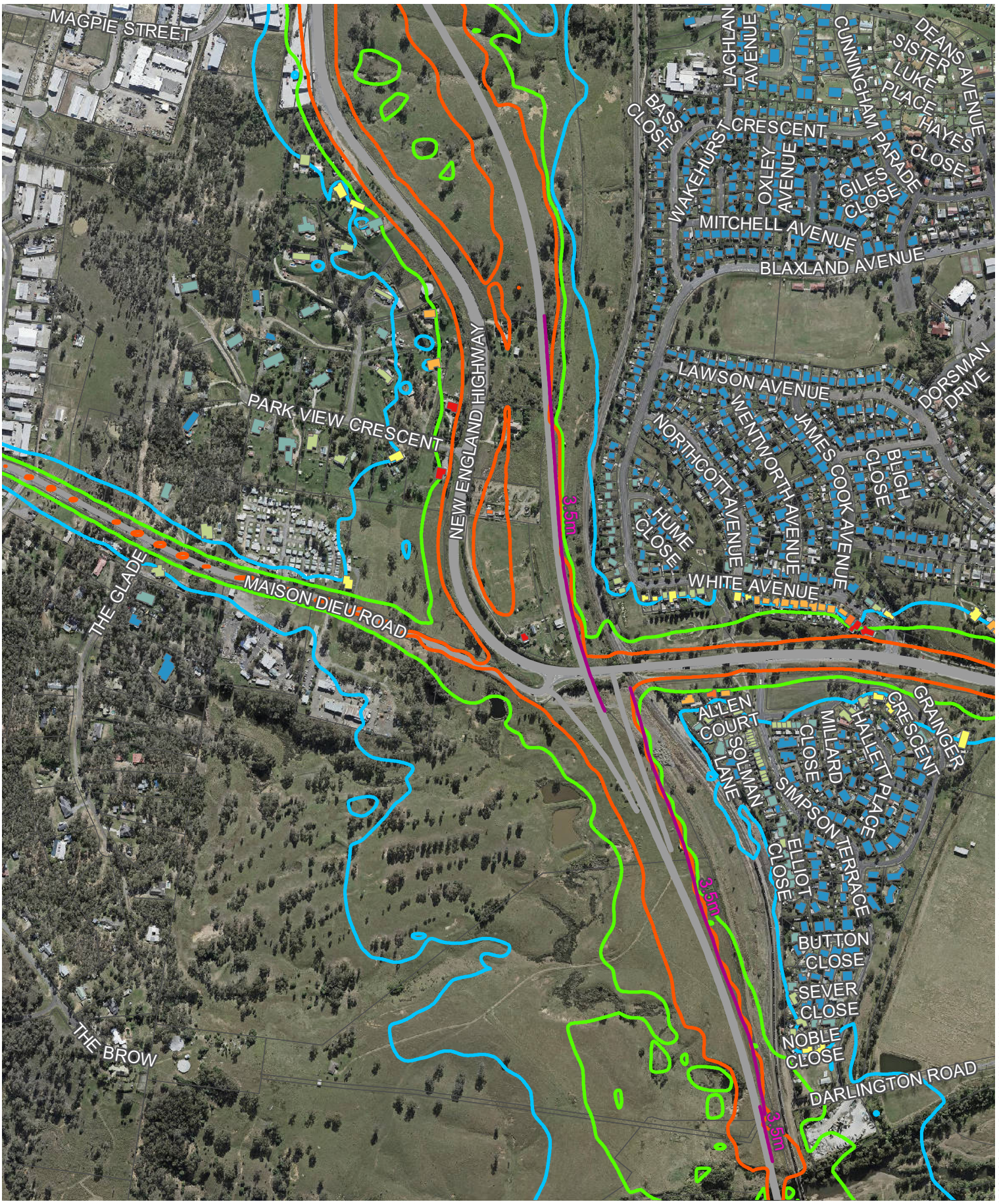
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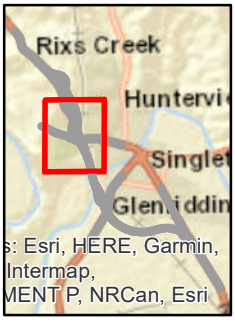
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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

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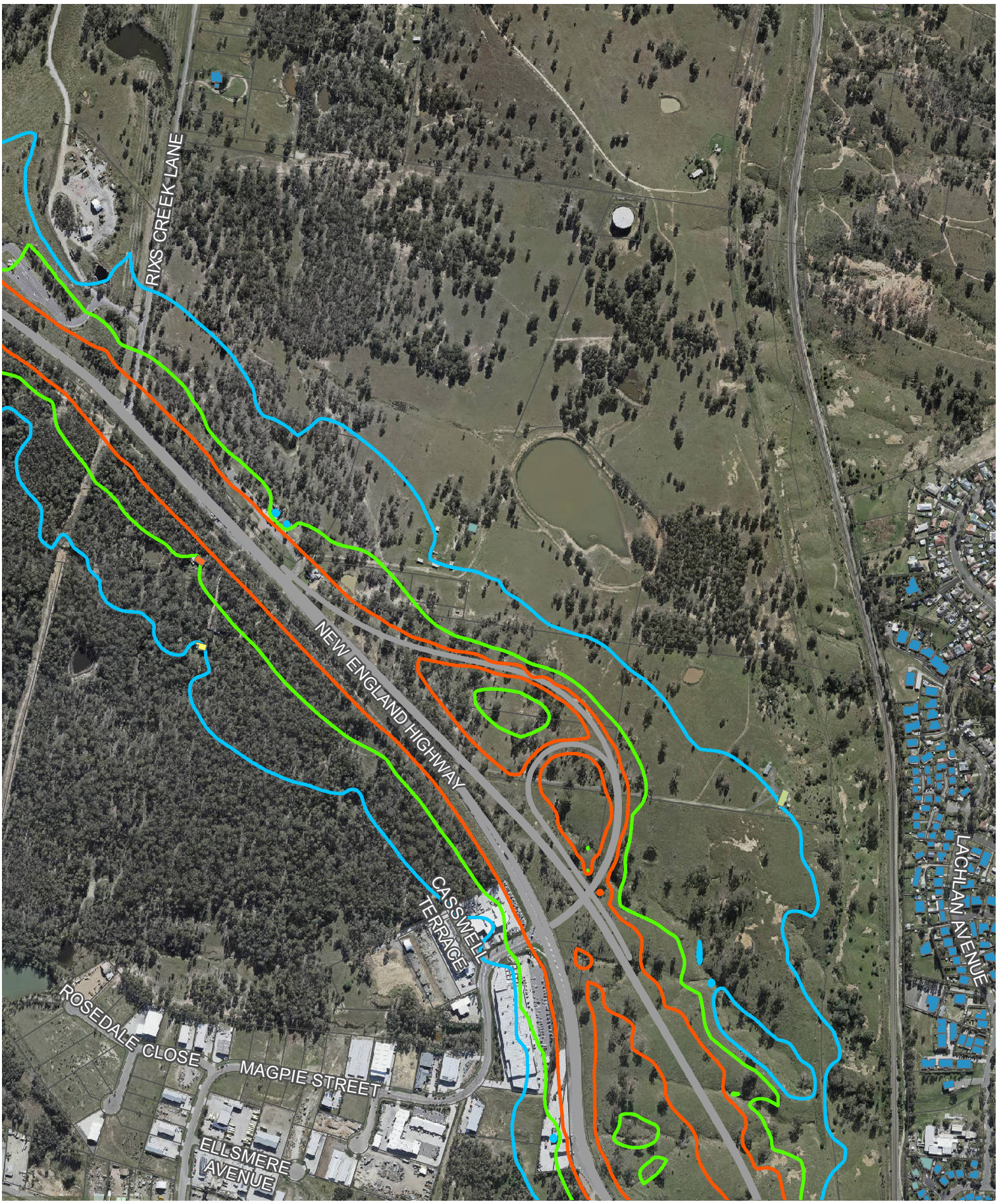
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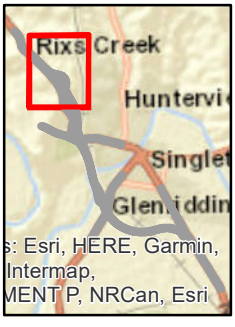
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Free Field Sound Pressure Level, L_{Aeq} dBA

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Facade Corrected Sound Pressure Level, L_{Aeq} dBA

<50 50 52 54 58



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0 100 200 400 m

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Appendix H

Noise Barrier Assessment

Appendix H Noise Barrier Assessment

Introduction

A noise barrier assessment has been undertaken for the proposal in accordance with the Roads and Maritime's *Noise Mitigation Guideline*. The assessment has been undertaken for the design year 2036 during the night-time as this was found to be the most stringent time period. The calculations include noise barriers heights from 0 metres to eight metres in 0.5 metre increments.

Six barriers and six precincts were considered in this assessment, as shown in the figure below.



Figure H-1 Noise barrier assessment area

Precinct 1

A comparison of noise reductions for a range of barrier heights has been carried out for the most affected residences within Precinct 1.

For a noise barrier to be considered reasonable, a minimum insertion loss must be obtained for at least one sensitive receiver. A noise barrier less than five metres high must have a minimum insertion loss of around 5 dB(A). A noise barrier equal to or greater than five metres high must have a minimum insertion loss of around 10 dB(A) to be considered reasonable. Provided below in Figure H-2 is the insertion loss obtained by the barrier at the range of noise barrier heights assessed.

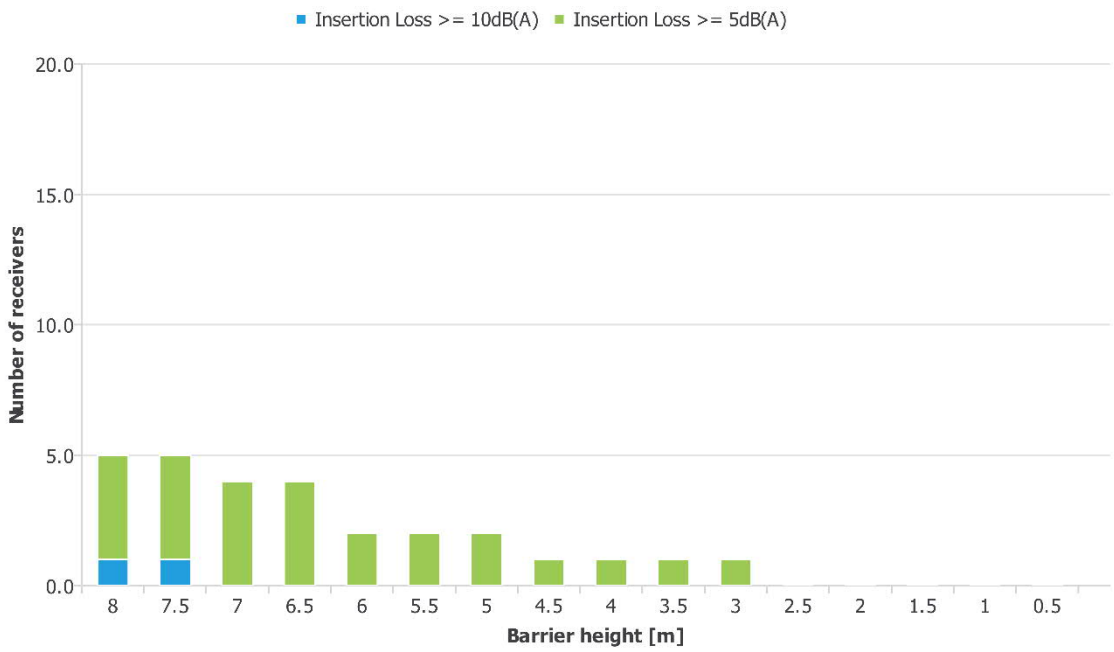


Figure H-2 Insertion loss

The insertion loss figure provided above indicates that a minimum insertion loss of 5 dB(A) is achieved with a barrier height of 3 m at 1 receiver location. A minimum insertion loss of 10 dB(A) is achieved at a barrier height of 7.5 m. Based on this information alone, a barrier height from 3 m to 4.5 m would be considered viable in this location.

The barrier assessment methodology requires the most affected facade to be determined without a barrier. The complete assessment is then undertaken based on this facade. In some circumstances residual facades still require treatment. As such the chart provided above should be considered indicative only.

The difference between the number of receivers that would require at-property treatment with the maximum barrier height and the number of receivers that would require at-property treatment without a barrier, identifies the maximum number of receivers that qualify for consideration of noise mitigation that could meet criteria using only a noise barrier. The Roads and Maritime *Noise Mitigation Guideline* considers that the initial barrier height is defined as the point where two-thirds of those receivers do not need to be considered further for noise mitigation. This height can be considered to be the minimum noise barrier height.

Figure H-3 provides a chart showing the number of property treatments with each barrier increment. The initial barrier design is also provided in the figure.

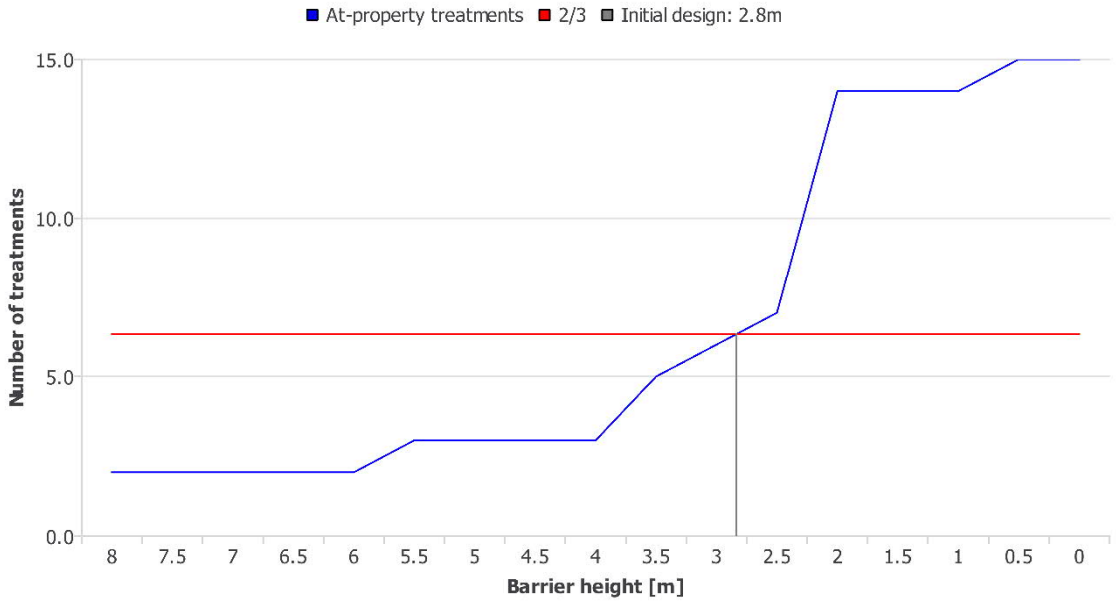


Figure H-3 Number of receivers requiring consideration of further mitigation

The figure above has identified a barrier of 2.8 m high as the initial barrier height. The maximum barrier height is considered to be the point where all sensitive receivers are no longer considered eligible for further noise mitigation, with an upper limit of 8 m. The figure above identifies a noise barrier of 8 m high as the maximum height for this scenario.

To determine the design barrier height, a points rating assessment is undertaken. The points system allows the most reasonable noise barrier height to be selected in a consistent manner. The assessment takes into account the size of the noise barrier, the exceedance above the criteria at each property and the exceedance above the World Health Organisation guidelines at each property. The minimum value in the points curve above the initial barrier height and below or at the maximum barrier height indicates the most reasonable barrier design.

The points are based upon; 1 point per square metre of barrier, 40 points for each at-property treatment where the criteria is exceeded by less than 10 dB(A), 120 points for each at-property treatment where the criteria is exceeded by 10 dB(A) or more and 4 points per dB(A) exceedance above 50 dB(A) during the daytime or 45 dB(A) during the night-time for each property.

Figure H-4 illustrates the points curve for the assessed barrier.

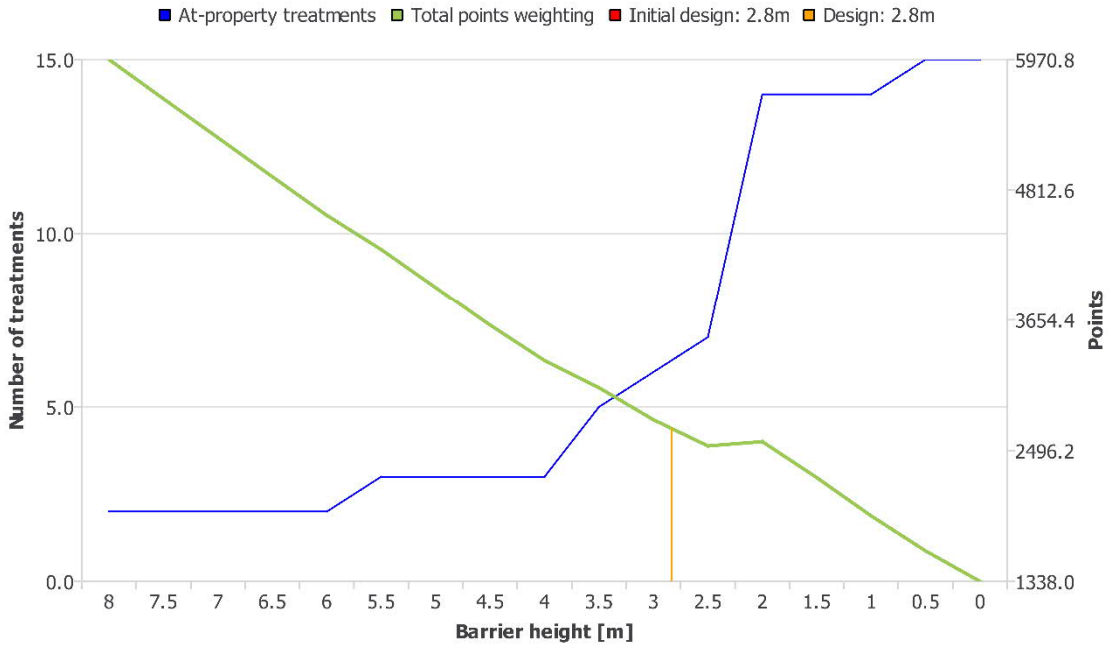


Figure H-4 Points curve

The weighting points chart provided above in Figure H-4 indicates that in accordance with the Roads and Maritime noise guideline a 3 m noise barrier would be considered the design barrier for this assessment.

As discussed previously, although the chart in Figure H-3 indicates that only six sensitive receivers are eligible for noise mitigation with a 3 m noise barrier, this assessment is only considering the most affected facade without a noise barrier.

The procedure discussed for Precinct one has been repeated for Precincts 2 to 6.

Precinct 2

A comparison of noise reductions for a range of barrier heights has been carried out for the most affected residences within Precinct 2. A summary of the key outcomes are provided below:

- A minimum insertion loss of 5 dB(A) is achieved with a barrier height of 3 m at 2 receiver locations;
- A minimum insertion loss of 10 dB(A) is not achieved at any barrier height;
- A barrier height from 3 m to 4.5 m would be considered viable in this location;
- The figure above has identified a barrier of 2.2 m high as the initial barrier height;
- A 3 m noise barrier would be considered the design barrier for this assessment.

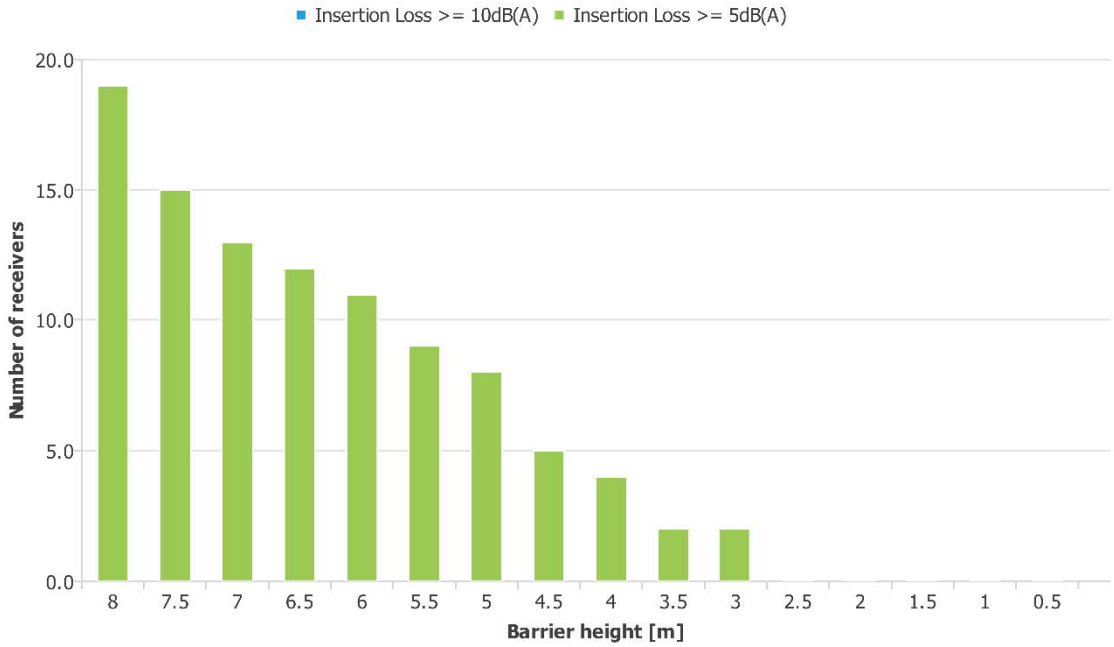


Figure H-5 Insertion loss

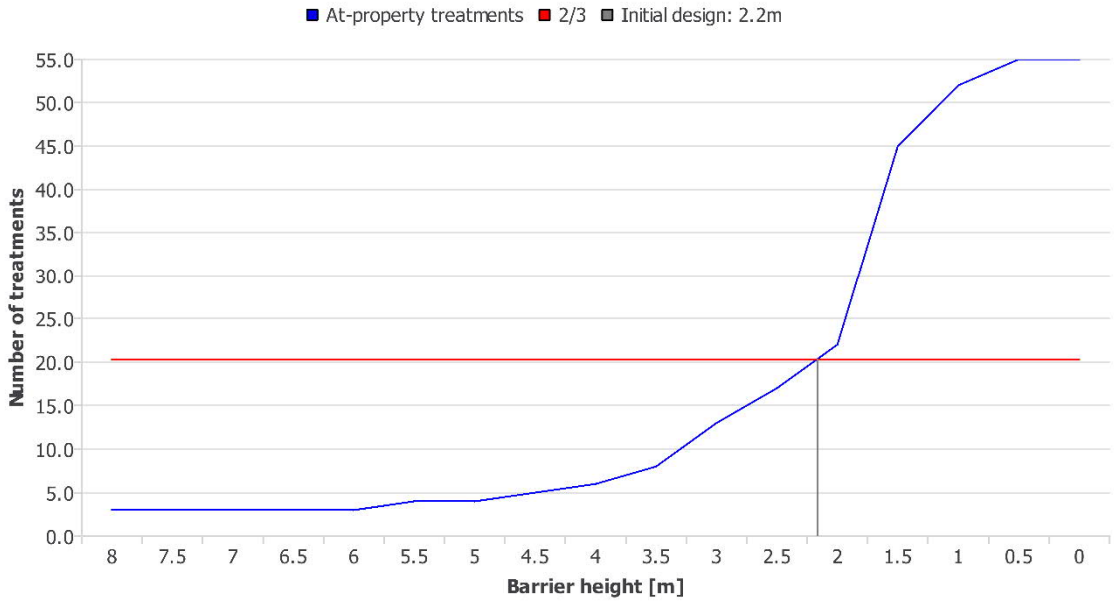


Figure H-6 Number of receivers requiring consideration of further mitigation

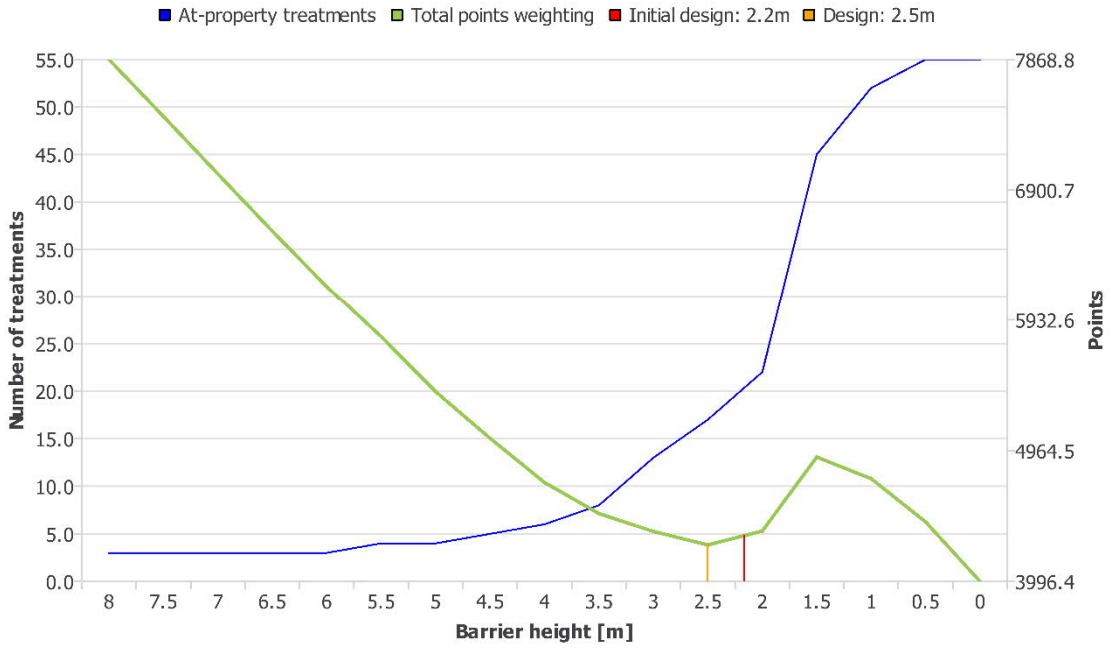


Figure H-7 Points curve

Precinct 3

A comparison of noise reductions for a range of barrier heights has been carried out for the most affected residences within Precinct 3. A summary of the key outcomes are provided below:

- A minimum insertion loss of 5 dB(A) is achieved with a barrier height of 3 m at 6 receiver locations;
- A minimum insertion loss of 10 dB(A) is achieved with a barrier height of 6 m at 2 receiver locations;
- A barrier height from 3 m to 8 m would be considered viable in this location;
- The figure above has identified a barrier of 3.2 m high as the initial barrier height;
- A 3.5 m noise barrier would be considered the design barrier for this assessment.

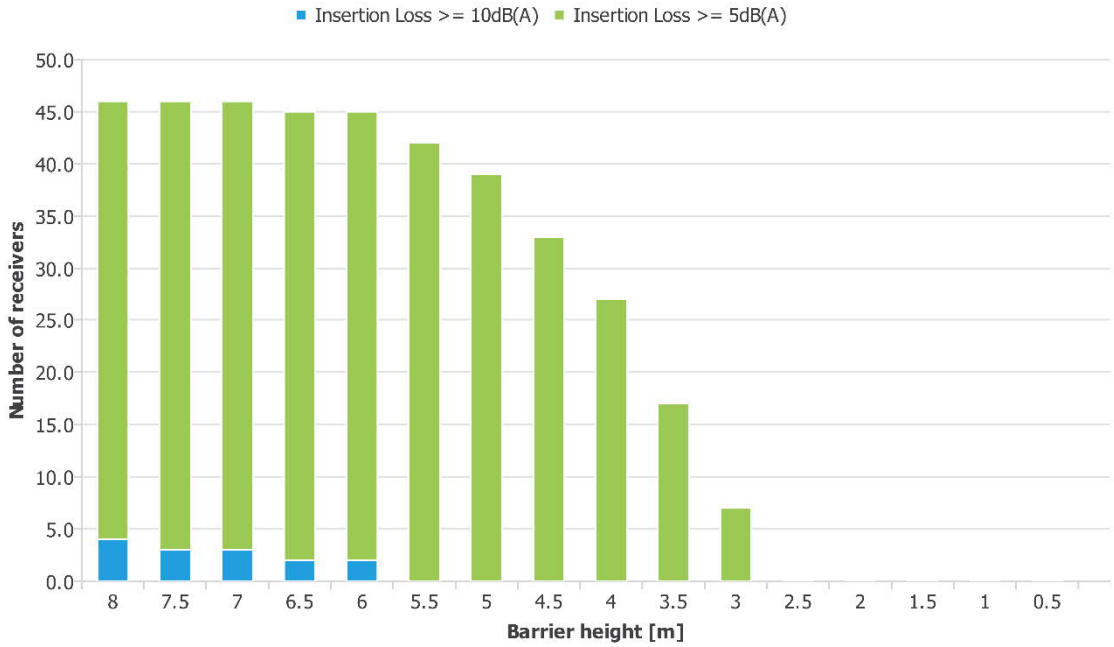


Figure H-8 Insertion loss

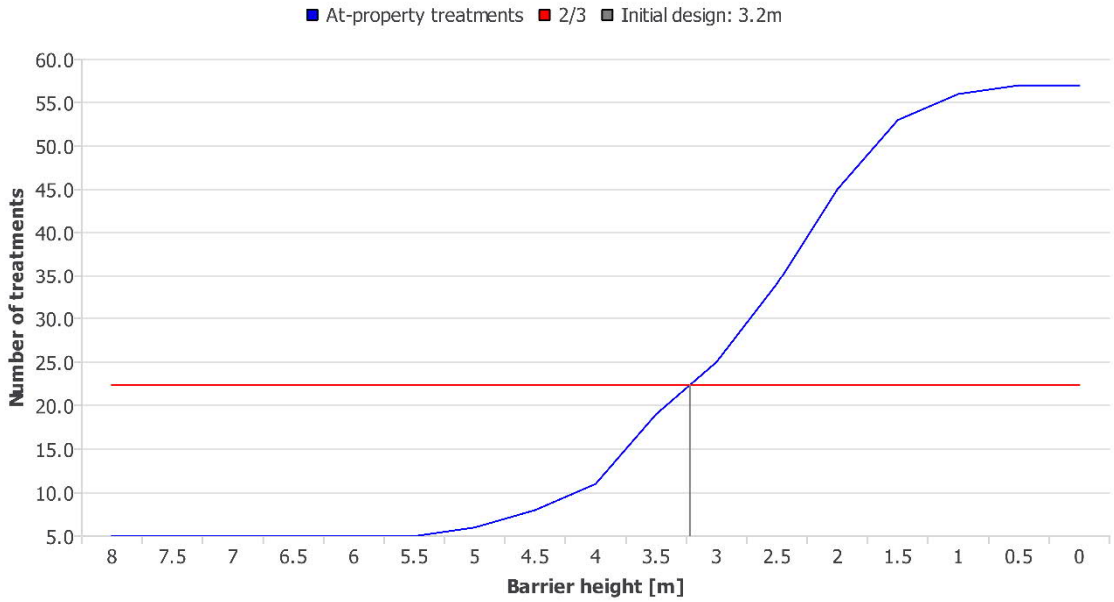


Figure H-9 Number of receivers requiring consideration of further mitigation

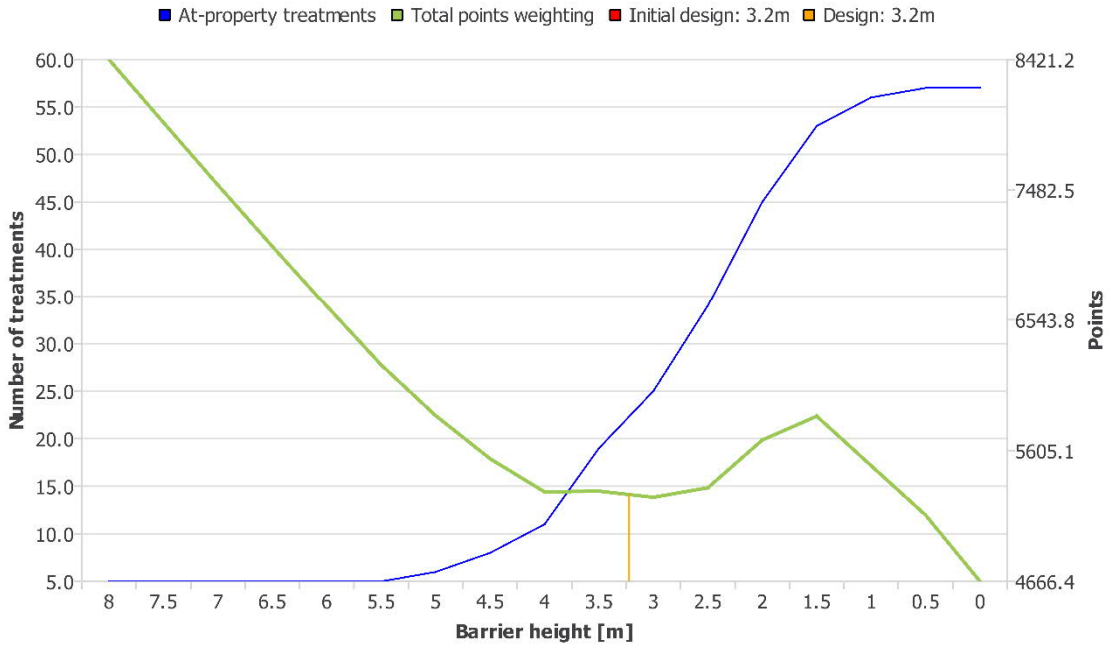


Figure H-10 Points curve

Precinct 4

A comparison of noise reductions for a range of barrier heights has been carried out for the most affected residences within Precinct 4. A summary of the key outcomes are provided below:

- A minimum insertion loss of 5 dB(A) is achieved with a barrier height of 3.5 m at 1 receiver location;
- A minimum insertion loss of 10 dB(A) is achieved with a barrier height of 7 m at 1 receiver location;
- A barrier height from 3.5 m to 8 m would be considered viable in this location;
- The figure above has identified a barrier of 3.7 m high as the initial barrier height;
- A 3.5 m noise barrier would be considered the design barrier for this assessment.

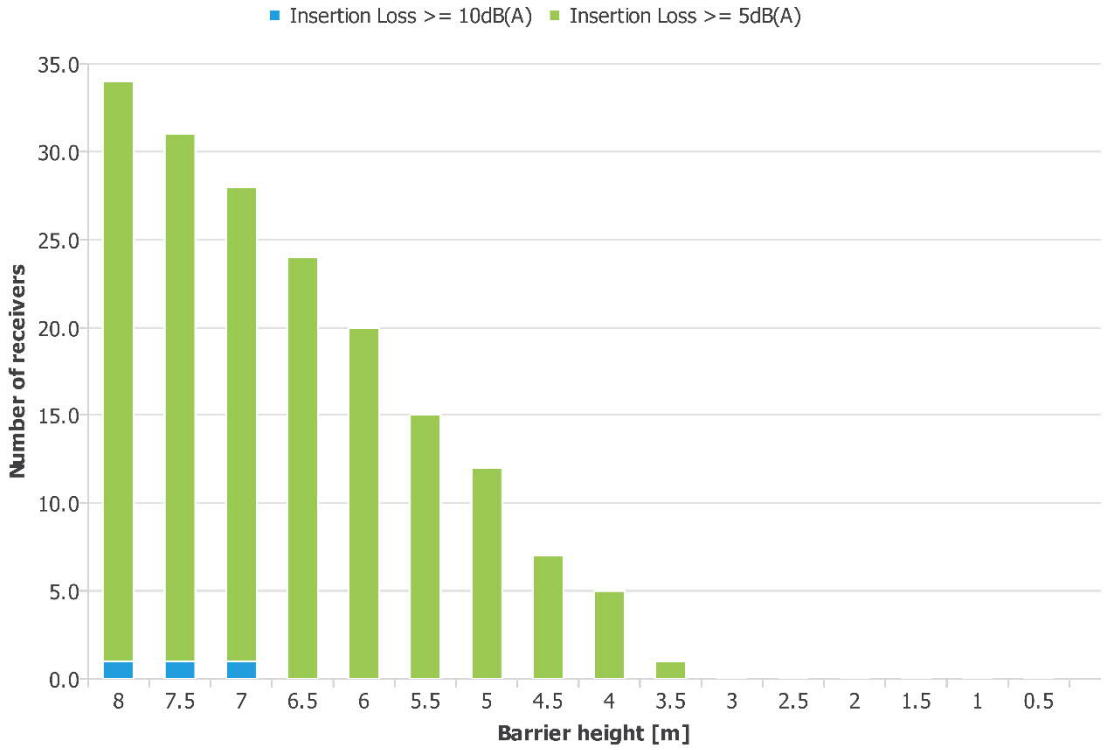


Figure H-11 Insertion loss

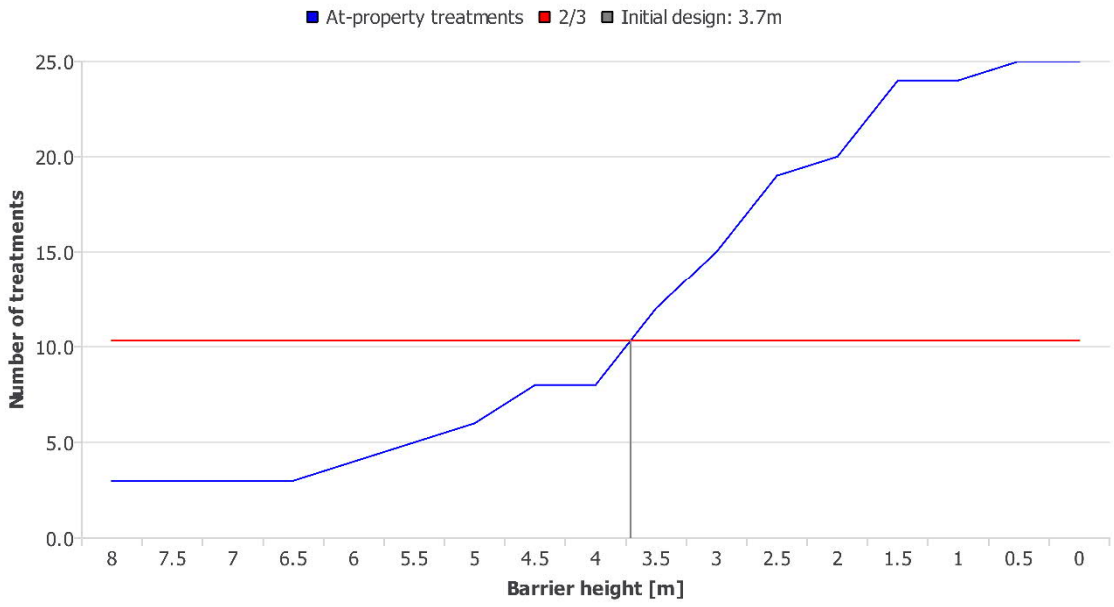


Figure H-12 Number of receivers requiring consideration of further mitigation

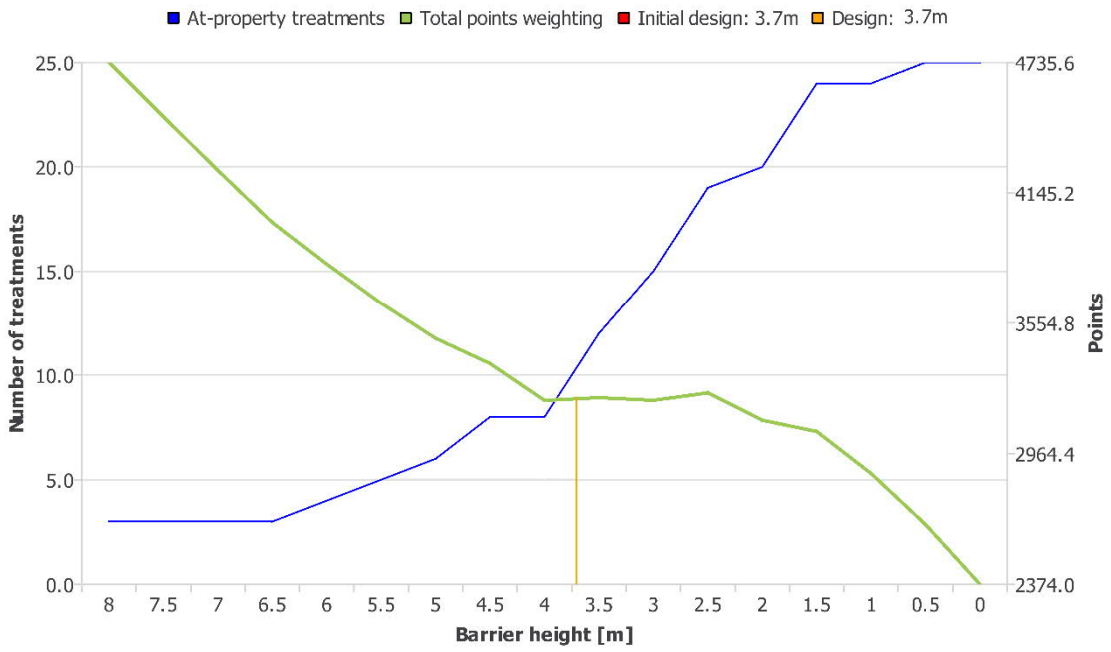


Figure H-13 Points curve

Precinct 5

A comparison of noise reductions for a range of barrier heights has been carried out for the most affected residences within Precinct 5. A summary of the key outcomes are provided below:

- A minimum insertion loss of 5 dB(A) is achieved with a barrier height of 5.5 m at 2 receiver locations;
- A minimum insertion loss of 10 dB(A) is not achieved at any barrier height;
- No barrier heights would be considered viable in this location, however considering that barrier 5 is a continuation of barrier 4 it seems reasonable to have a barrier in this location rather than none at all.
- The figure above has identified a barrier of 3.2 m high as the initial barrier height.
- A 3.5 m noise barrier would be considered the design barrier for this assessment.

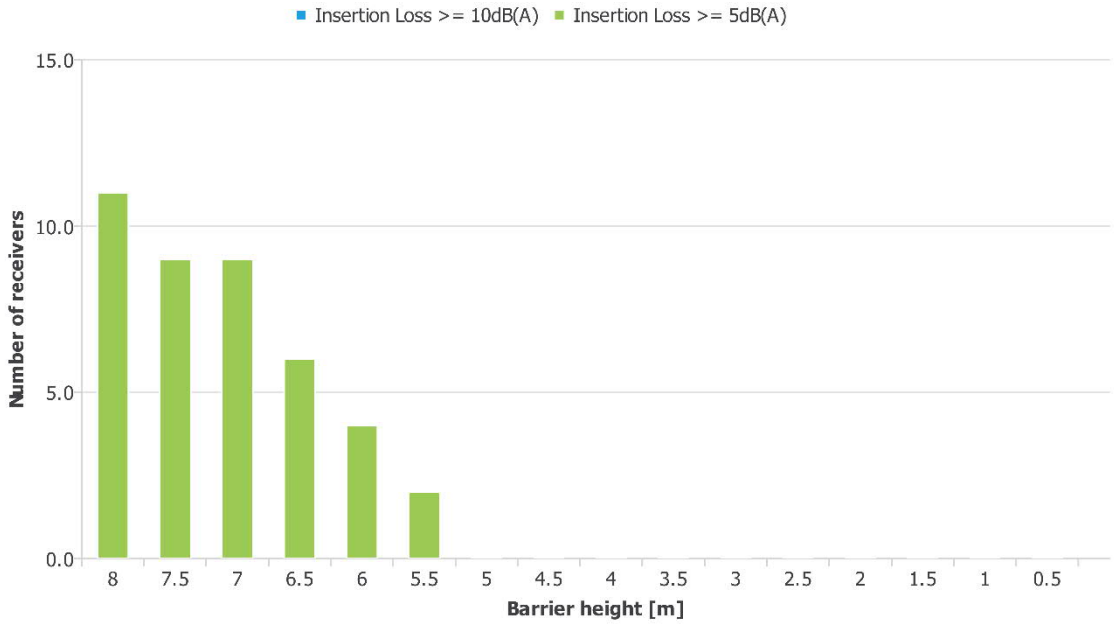


Figure H-14 Insertion loss

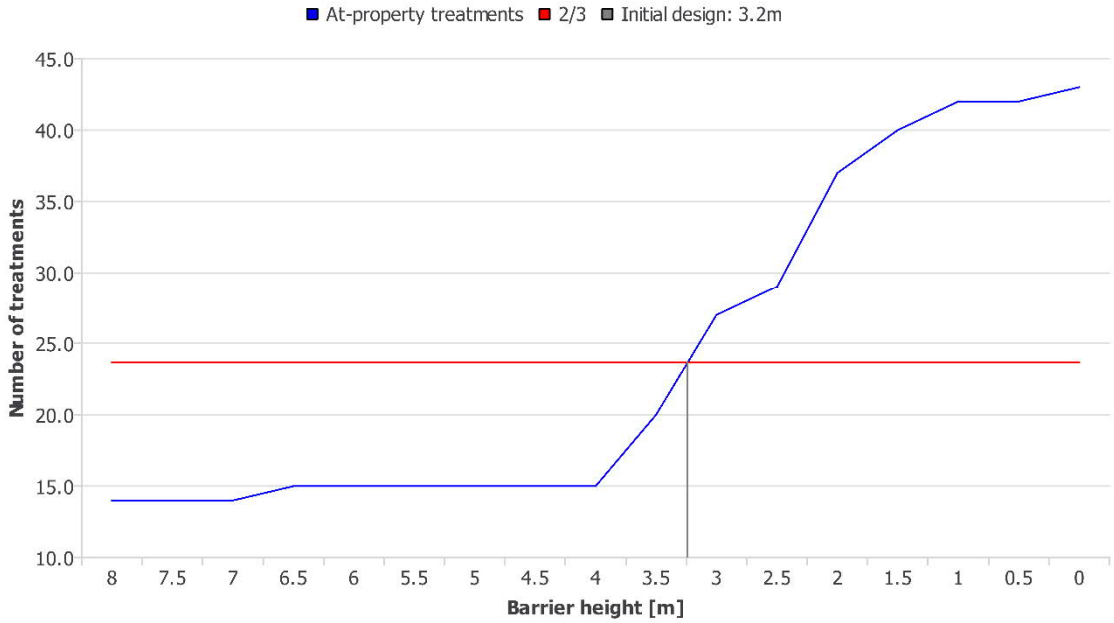


Figure H-15 Number of receivers requiring consideration of further mitigation

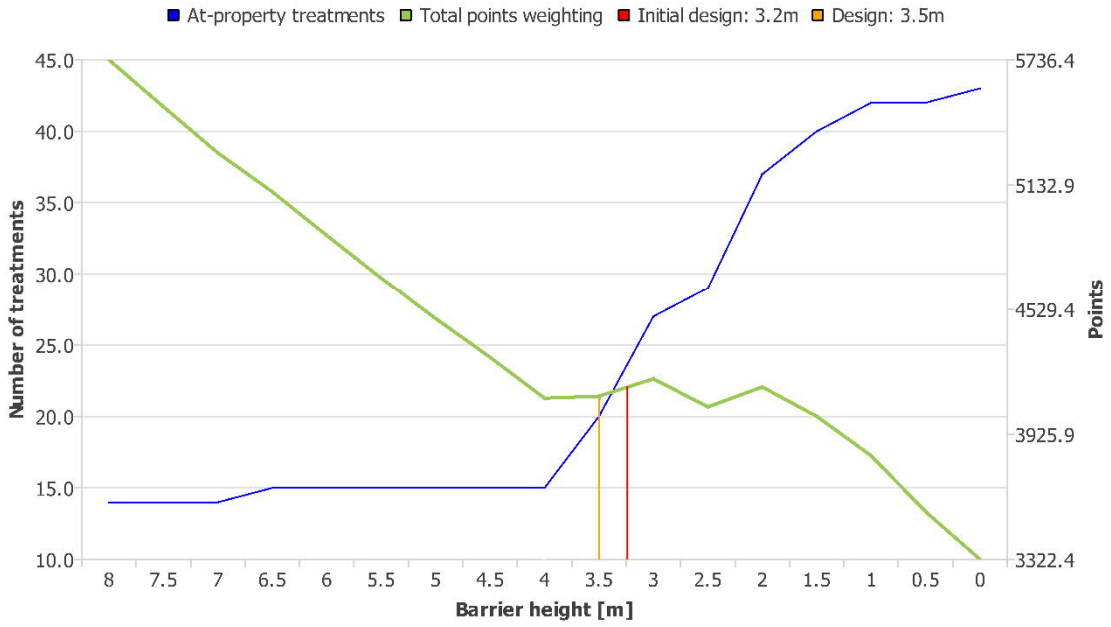


Figure H-16 Points curve

Precinct 6

A comparison of noise reductions for a range of barrier heights has been carried out for the most affected residences within Precinct 6. A summary of the key outcomes are provided below:

- A minimum insertion loss of 5 dB(A) is achieved with a barrier height of 3.5 m at 11 receiver locations;
- A minimum insertion loss of 10 dB(A) is achieved with a barrier height of 6.5 m at 1 receiver location;
- A barrier height from 2.5 m to 8 m would be considered viable in this location;
- The figure above has identified a barrier of 2.4 m high as the initial barrier height;
- A 3.5 m noise barrier would be considered the design barrier for this assessment.

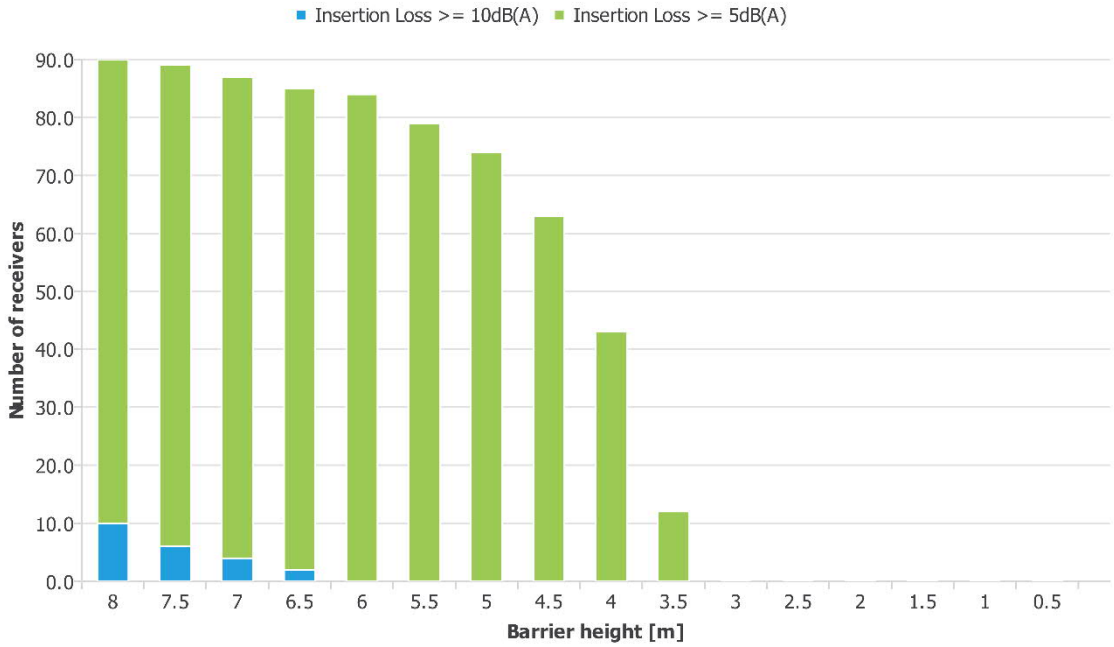


Figure H-17 Insertion loss

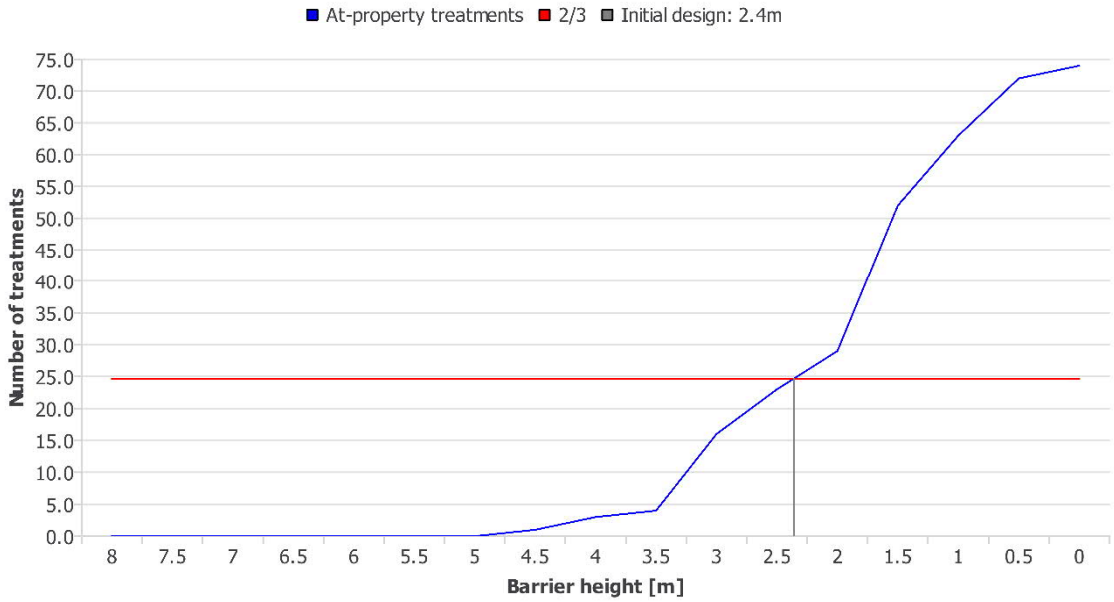


Figure H-18 Number of receivers requiring consideration of further mitigation

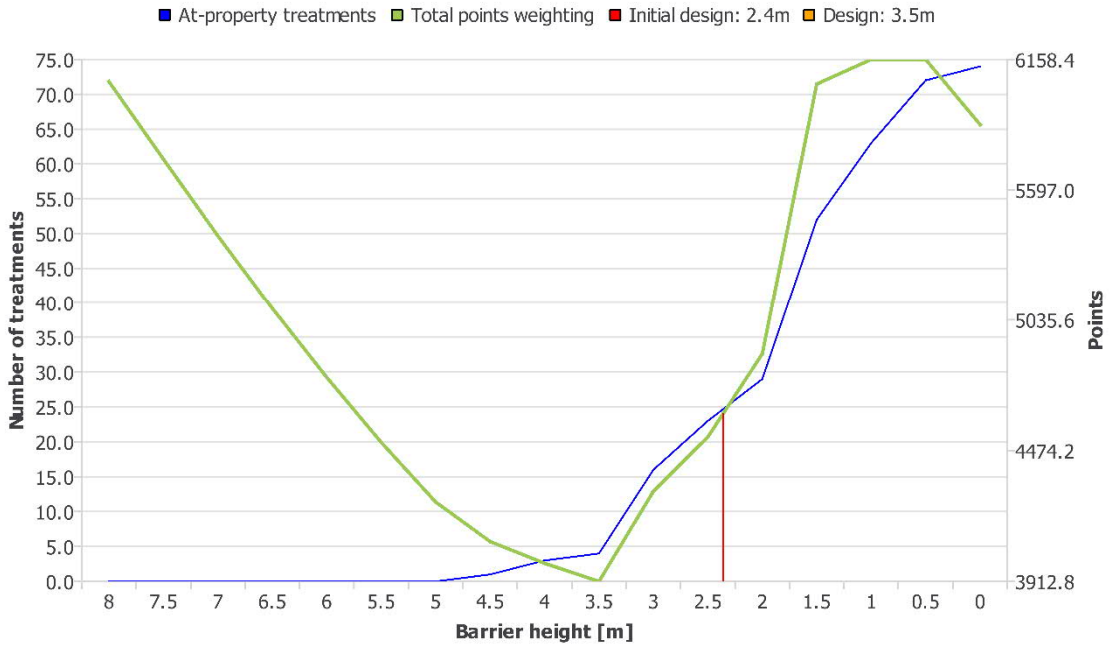


Figure H-19 Points curve

Appendix I

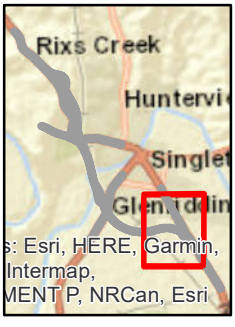
Receivers eligible for consideration of at-receiver treatment

Appendix I Receivers eligible for consideration of at-receiver treatment



Singleton Bypass - Receivers Eligible for the Consideration of Treatment

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AECOM

0 90 180 360 m

Eligible for Treatment

- Exceeds cumulative noise limit
- Increase > 2dB
- Relative Increase > 12dB

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Singleton Bypass - Receivers Eligible for the Consideration of Treatment



AECOM

N

0 90 180 360 m

Eligible for Treatment

- Exceeds cumulative noise limit
- Increase > 2dB
- Relative Increase > 12dB

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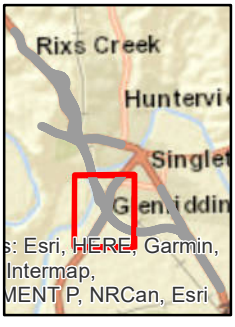
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Singleton Bypass - Receivers Eligible for the Consideration of Treatment



AECOM

0 90 180 360 m

Eligible for Treatment

- Exceeds cumulative noise limit
- Increase > 2dB
- Relative Increase > 12dB

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Singleton Bypass - Receivers Eligible for the Consideration of Treatment

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Eligible for Treatment

- Exceeds cumulative noise limit
- Increase > 2dB
- Relative Increase > 12dB



AECOM

0 90 180 360 m

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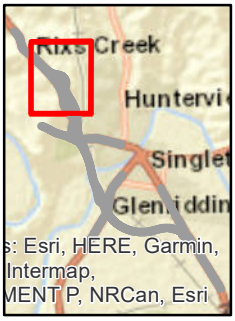


Singleton Bypass - Receivers Eligible for the Consideration of Treatment

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Eligible for Treatment

- Exceeds cumulative noise limit
- Increase > 2dB
- Relative Increase > 12dB



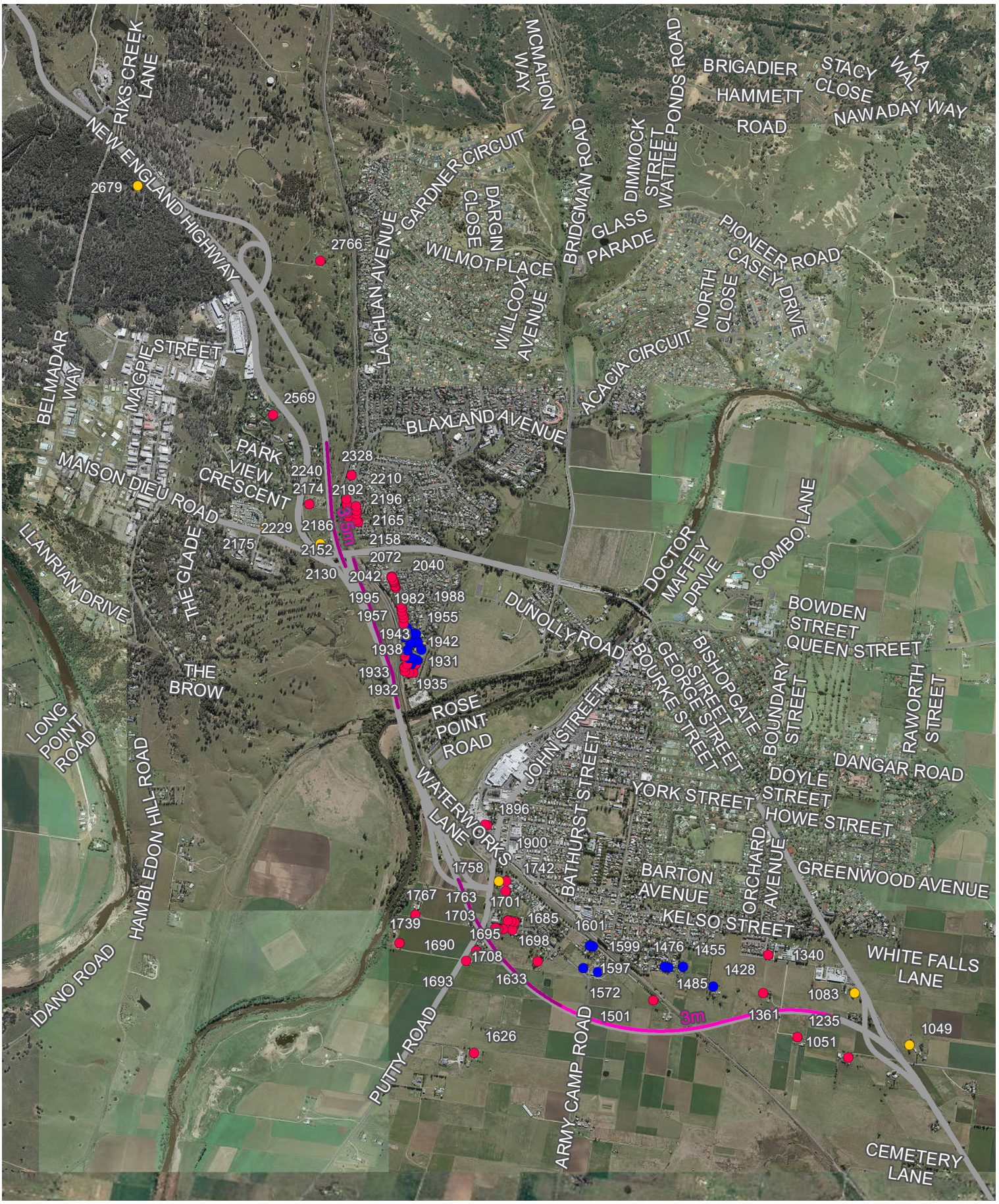
AECOM

0 90 180 360 m

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Singleton Bypass - Receivers Eligible for the Consideration of Treatment



AECOM

0 285 570 1,140 m

Eligible for Treatment

- Exceeds cumulative noise limit
- Increase > 2dB
- Relative Increase > 12dB

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