yarramine environmental

ENVIRONMENTAL NOISE IMPACT ASSESSMENT

Change Application (Other) for Rooming Accommodation

125 Kudo Silverleigh Road GOOMBUNGEE

Prepared on behalf of Schriek Building Group
For Toowoomba Regional Council

YAR Ref: YEP2025052_R1Fv5

26 August 2025

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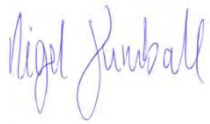

Nigel Kimball
Managing Director &
Principal Environmental Scientist
26 August 2025

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1 Introduction

Schriek Building Group engaged Yarramine Environmental (Yarramine) to undertake an Environmental Noise Impact Assessment in support of a proposed expansion of rooming accommodation, located at 125 Kudo Silverleigh Road, GOOMBUNGEE, formally described as Lot on Plan 2 RP50559 (hereafter to be known as the site).

This assessment was commissioned in response to an Information Request issued by Toowoomba Regional Council (TRC) following the submission of the Change Application, with a view to evaluate the potential noise impacts on existing surrounding sensitive receptors.

In undertaking the assessment, ambient noise monitoring was conducted at the site and through modelling, predictions of onsite activity, noise emissions and their impact on surrounding sensitive receptors was examined.

Based upon the predicted noise impact levels, recommendations regarding noise mitigation measures and management principles for integration into the design and operation of the development were also considered and where relevant recommendations to manage predicted noise impacts are put forward.

1.1 Scope of Work

The scope of work for this project encompassed:

- The undertaking of an Environmental Noise Impact Assessment incorporating:
    - Ambient noise level measurements at a single location over a 6-7-day period using noise logging equipment at the subject site.
    - Consideration of applicable noise criteria with reference to criterion contained in the *Toowoomba Regional Planning Scheme 2012* and *Environmental Protection (Noise) Policy 2019.*
    - Using SoundPLAN Essential 5.1 noise modelling software, model the anticipated level of noise emanating from the facility and potential impacts on surrounding sensitive receptors, and
    - Provision of any in principle recommendations for noise mitigation measures to ensure compliance with the adopted noise criteria.
- Preparation of a technical report (this report) detailing the result of the noise impact assessment for lodgement by others.

1.2 Codes, Policies & Standards

This assessment has been conducted with reference to the following codes, policies, and standards:

Toowoomba Regional Council

- *Toowoomba Regional Planning Scheme (2012) Version 28* (Commenced 28 November 2022).

Department of Environment & Science

- *Noise Measurement Manual* (v 4.01 dated 10 March 2020).
- *Environmental Protection (Noise) Policy 2019* (Current as of 1 September 2019).

Australian Standards

- Australian Standard AS1055:2018 - *Acoustics - Description and Measurement of Environmental Noise* (AS1055).
- Australian & New Zealand Standard *AS/NZS IEC 61672.1:2019 - Electroacoustics - Sound level meters, Part 1: Specifications*.

2 Development Description

2.1 Site, Use & Locality Description

The site comprises a single rectangular lot located at 125 Kudo Silverleigh Road, GOOMBUNGEE, on land formally described as Lot on Plan 2 RP50559.

With an area of approximately 162ha , the site is zoned “Rural (100ha Minimum Precinct)”, under the *Toowoomba Regional Planning Scheme 2012* with approximately 970m fronting Kudo Silverleigh Road along its northern boundary and Gordon Smiths Road along its southern boundary. Access to the site is off Gordon Smiths Road.

The use was first established onsite in 2020 and at present incorporates a variety of buildings located centrally along its eastern boundary including an activity/dining hall, caretakers’ residence, rooming accommodation (6 Rooms) and food and drink outlet.

2.2 Proposed Development

The proponent is seeking approval for a Change Application (Other) to accommodate an increase in proposed rooming accommodation. Specifically, the proposal seeks to expand capacity from a maximum of twelve (12) guests housed in six (6) bedrooms, to sixty (60) guests accommodated across thirty (30) bedrooms.

To facilitate this increase, the proposal includes the construction of six (6) new Rooming Accommodation buildings. Each building will contain four (4) bedrooms, with one incorporating a Communal Laundry and another featuring a Communal Storage Room.

The proposal also involves the establishment of:

- Six (6) standalone Private Activity Room buildings, offering sheltered spaces for guests to engage in activities such as exercise, meditation, and reading.
- Two (2) ancillary standalone Toilet/Shower facility buildings, designated exclusively for guest use.

Proposal drawings have been prepared by Aspect Architects and are included in Appendix A.

2.3 Surrounding Uses

In a broader context, the site is situated within the locality of Goombungee approximately 4km south west of the township of Goombungee and approximately 30km north west of the Toowoomba Central Business District (CBD).

The site is entirely surrounded by land zoned for rural use. Grazing areas are located to the north, across Kudo Silverliegh Road, and extend eastward and to the northwest. Cropping land is situated to the southwest and continues across Gordon Smiths Road to the south The general location of the site and its environs are shown on the Site Location Plan presented in Figure 1 on Page 5 while the site and its immediate context is shown on the Site Plan presented in Figure 2 on Page 6.

2.4 Hours of Operation

The current development approval does not specify operating hours, except for the Food and Drink Outlet, which is limited to 7:00 am to 2:00 pm on weekdays. Due to the nature of the use, particularly its rooming accommodation component, it is understood that operations occur on a 24-hour basis to support the needs of staying guests.

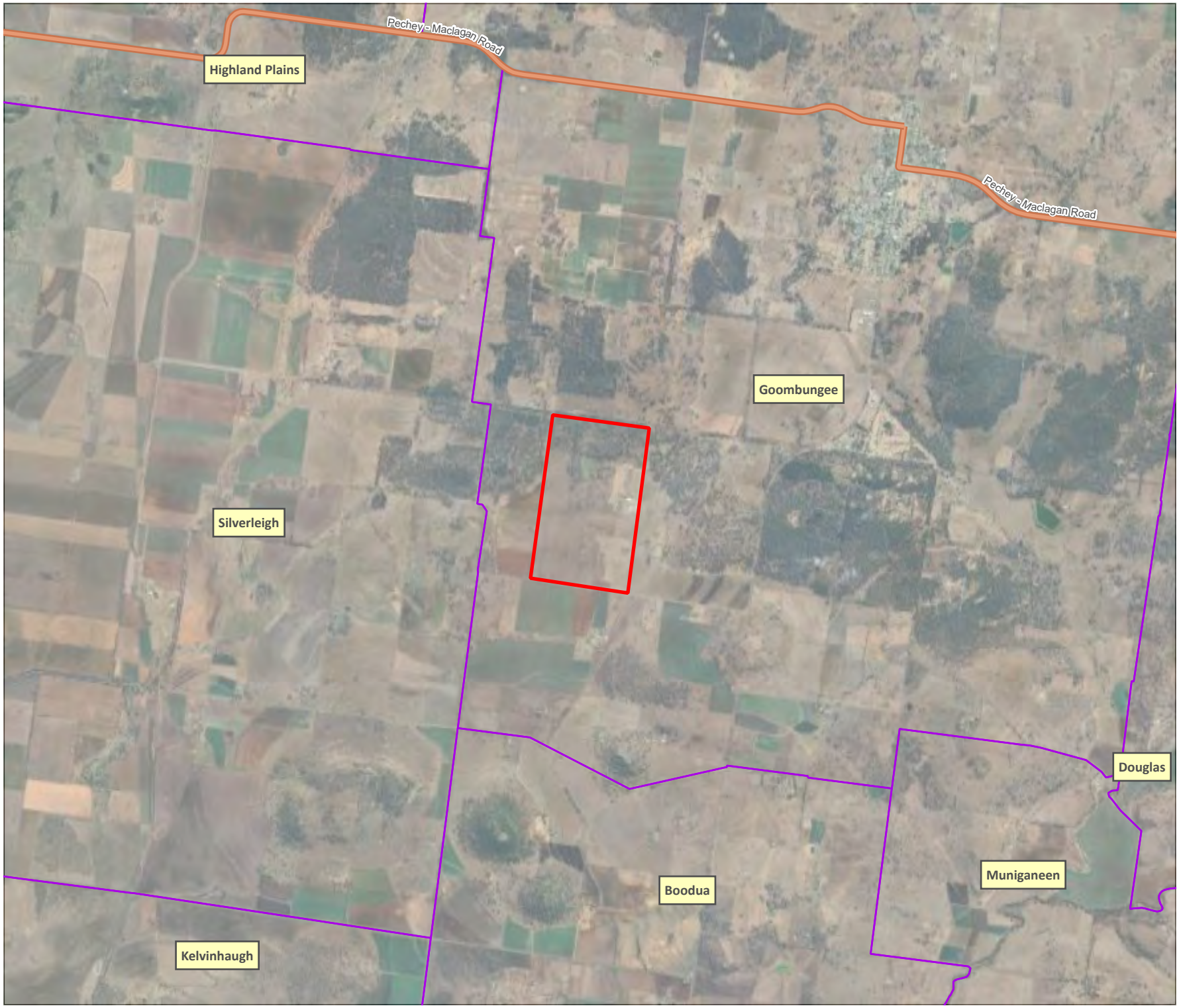
2.5 Potential Noise Issues

The following noise sources associated with the ongoing operation of the expanded use have been considered:

- Patron vehicle movements from the carpark (i.e., ignition starting, idling and closing of car doors) and including manoeuvring given the length of the driveway and quantity of onsite carparking proposed.
- Patron conversational noise at various locations across the development.
- Although typically undertaken indoors, meditation and chanting activities taking place in a collective and outdoor manner.
- Noise from service vehicles such as delivery and refuse servicing.

Air conditioning units will likely be installed on each rooming accommodation building however these noise sources have not been considered in this assessment. This is because they will only comprise of domestic sized split air conditioning units and the significant distances from the buildings to the nearby external sensitive receptors.

Figure 1
Site Locality Plan



Legend

- A Locality Boundary Labels
- A State Contolled Roads Labels
- State Contolled Roads
- Locality Boundary
- Subject Site

Layer Sources: Qld GIS Layers (Qld Gov Information Service 2024)
Aerial - Google Earth 2025

Client:	Shriek Building Group		
Project No:	YEP2025052		
Drawn:	ADH	**Approved:**	NPK
Revision:	A	**Date:**	09/07/2025

N

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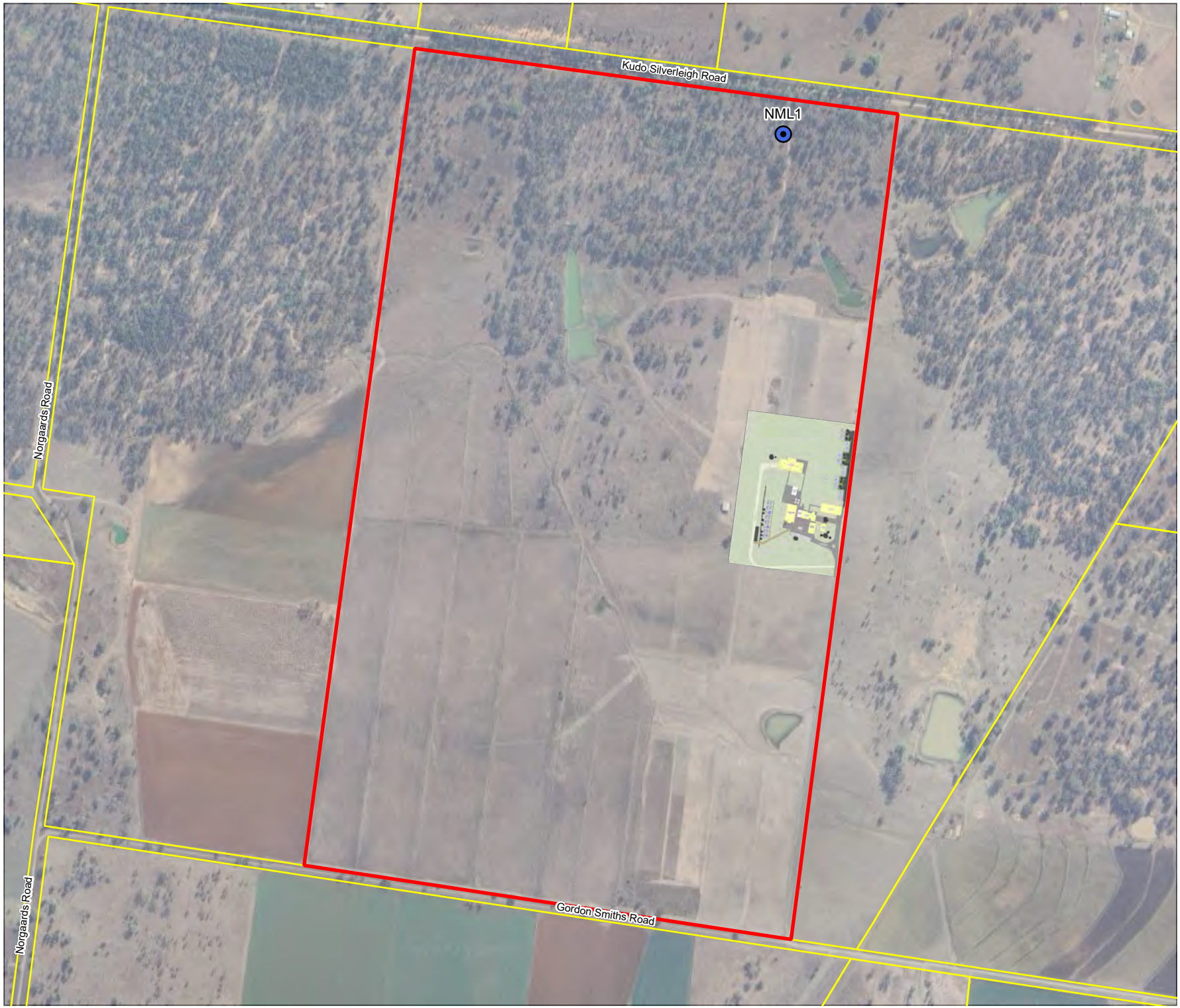
2,200 m

1: 50,000 (A4)
GDA2020 MGA Z56

Figure 2
Site Plan

Legend

- Local Government Roads Labels
- Noise Logger Labels
- Noise Logger
- Subject Site
- Cadastre



Layer Sources: Qld GIS Layers (Qld Gov Information Service 2024)
Aerial - Google Earth 2025

Client:	Shriek Building Group		
Project No:	YEP2025052		
Drawn:	ADH	**Approved:**	NPK
Revision:	A	**Date:**	09/07/2025

N

440 m

1: 10000 (A4)
GDA2020 MGA Z56

2.6 Noise Sensitive Locations

There is one (1) existing sensitive receptor present within 1000m of the development footprint, at 964m. However, the remaining seven (7) receptors, comprising residences on neighbouring properties, are situated at distances ranging from 1,019m and 1,706m from the development footprint.

Particulars of each noise sensitive location are summarised in Table 1 below. The location of these sensitive receptors relative to the development footprint is presented in Figure 3 overleaf.

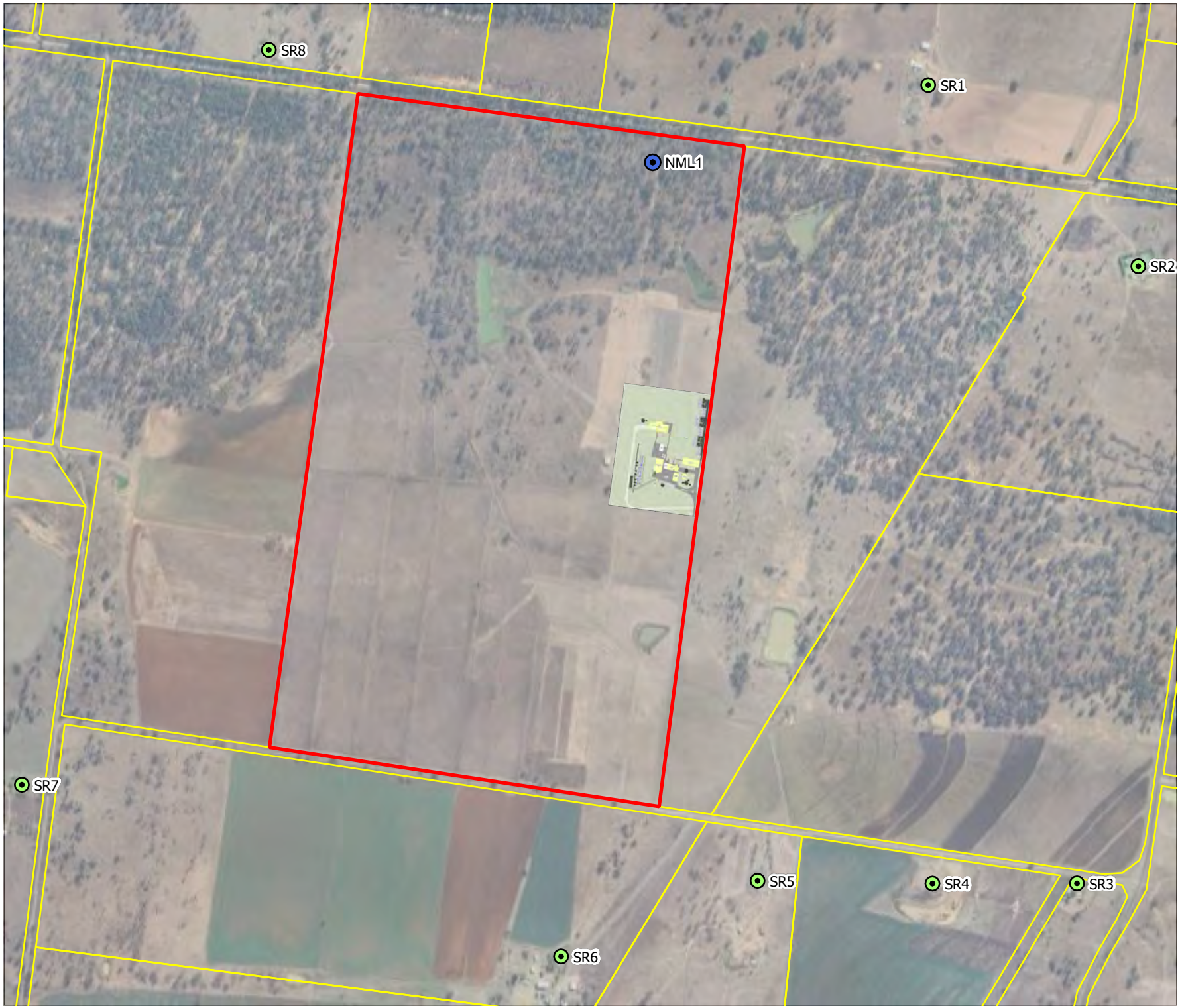
Table 1: Summary of nearby sensitive receptors

ID #	RECEPTOR NAME	DISTANCE FROM DEVELOPMENT	COMMENT
SR1	118 Kudo Silverleigh Rd	964m	Dwelling - Single Storey Timber & Iron Construction
SR2	721 Kudo Silverleigh Rd	1137m	Dwelling - Single Storey Brick & Iron Construction
SR3	15 Gordon Smiths Rd	1404m	Dwelling - Single Storey Timber & Iron Construction
SR4	224 Gordon Smiths Rd	1192m	Dwelling - Single Storey Brick & Iron Construction
SR5	93 Gordon Smiths Rd	1019m	Dwelling - Single Storey Brick & Iron Construction
SR6	111 Gordon Smiths Rd	1193m	Dwelling - Single Storey Brick & Iron Construction
SR7	186 Norgaards Rd	1706m	Dwelling - Single Storey Brick & Iron Construction
SR8	280 Kudo Silverleigh Rd	1328m	Dwelling - Single Storey Brick & Iron Construction

Figure 3
Surrounding Sensitive Receptors

Legend

- Noise Logger Labels
- Noise Logger
- Sensitive Receptors Labels
- Sensitive Receptors
- Subject Site
- Cadastre



Layer Sources: Qld GIS Layers (Qld Gov Information Service 2024)
Aerial - Google Earth 2025

Client:	Shriek Building Group		
Project No:	YEP2025052		
Drawn:	ADH	**Approved:**	NPK
Revision:	A	**Date:**	24/07/2025

N

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550 m

1: 12500 (A4)
GDA2020 MGA Z56

3 Existing Noise Environment

3.1 Ambient & Background Noise Measurement Methodology

To determine the existing ambient and background noise levels at the site, unattended noise monitoring was conducted at a single location (NML1) (as shown on the Site Plan presented in Figure 2 on Page 6 and summarised in Table 2 below) from Monday 16 June 2025 to Friday 20 June 2025.

Table 2: Unattended noise monitoring location & duration

LOCATION	LATITUDE	LONGITUDE	START TIME	END TIME	DURATION
NML1	-27.324936	151.824747	16 June 2025 2:02:15 PM	20 June 2025 2:31:08 PM	4 Days 26 Minutes 51 Seconds

Noise levels were measured with a Cirrus Research Optimus Green Class 1 Integrating Sound Level Meter (SLM) (Model No. CK :171B) and an associated telemetry enabled outdoor measurement kit (collectively referred to as the 'noise logger'). This SLM conforms to *Australian Standard 1259:1990 - Acoustics - Sound Level Meters* as Type 1 SLM and was set to record noise statistics in 15-minute blocks.

Monitoring was conducted generally in accordance with *Australian Standard 1055:2018 Acoustics - Description and measurement of environmental noise.* The A-Weighting filter of the SLM was selected, the time weighting was set to 'FAST' response, and the microphone placed approximately 1.8 metres above ground level (free field).

In addition, the SLM, which has capabilities to record audio simultaneously with the recording of noise levels was programmed to record audio when a short or loud noise event was detected.

Specifically, the SLM was programmed to:

- record audio for five (5) seconds when measured sound levels for LAeq exceeded 85dB; and
- record audio where the rate of change (speed at which the sound level changes) of measured sound levels for LAeq increased by more than 15dB in 5 seconds.

The noise logger was pre-calibrated to 93.7 dB at 1kHz using a Cirrus Research Class 1 Acoustic Calibrator (Model No. CR: 515) and displayed a deviation of less than ±0.5 dB from this level at post-measurement calibration.

The sound level meter, calibrator and microphone capsule have been laboratory calibrated within the previous year in accordance with Yarramine's Quality Assurance procedures. A copy of the relevant calibration certificate from a certified NATA calibration laboratory is presented in Appendix B.

Plate 1 overleaf shows the noise logger in operation. No attended measurements were undertaken to cross-reference noise sources, rather reliance was placed on audio recorded by the SLM to allow the identification of source noise.

Plate 1: Photograph showing the location of the noise logger in use at location NML1

3.2 Existing Ambient & Background Measurement Results

Recorded noise levels are included as graphical traces of noise level versus time for the statistical noise level descriptors LAmax, LA01, LA10, LAeq and LA90 in Appendix C.

The recorded noise levels are presented as the minimum, maximum and average statistical components, which are described as:

- LAmax: The 'maximum' noise level recorded during the measurement period, referred to as the maximum sound pressure level.
- LA01: Noise level exceeded for 1 percent of the measurement period, referred to as the adjusted maximum sound pressure level.
- LA10: Noise level exceeded for 10 percent of the measurement period, referred to as the averaged maximum sound pressure level.
- LAeq: An "average" measurement, and as per AS1055.1 - 1997 defined as the value of the sound pressure level of a continuous steady sound state, that within a measurement period, has the same mean square sound pressure as a sound under consideration whose level varies with time.
- LA90: Noise level exceeded for 90 percent of the measurement period. AS1055.1 - 1997 notes that the L90 is described as the background sound pressure level.

Table 3 overleaf presents a summary of the existing ambient noise levels in the vicinity of the subject site as well as the overall background noise level for the day, evening, and night-time periods. Detailed period-by-period and day-by-day measurement results are provided in Table 4 on Page 12.

With reference to the graphical traces presented in Appendix C, ambient noise levels recorded were found to be very low across all time periods and even for a typical rural setting.

Table 3: Summary of measured ambient noise levels & median background levels

DATE	PERIOD	MEASURED AMBIENT NOISE LEVELS					MEDIAN BACKGROUND LEVEL*
		L_{Amax}	L_{A01}	L_{A10}	L_{Aeq}	L_{A90}	L_{A90}
Monday 16/06/2025	Day	79.3	50.7	41.3	40.1	21.8	**DAY**
	Evening	60.1	47.3	30.6	34.6	17.3	24*
	Night	62.2	45	31.5	32.2	17.9	
Tuesday 17/06/2025	Day	74.7	52.8	42.8	43.9	24.2	
	Evening	59.6	44.5	33.1	33	19.6	
	Night	59	44.6	33.5	32.6	19.6	**EVENING**
Wednesday 18/06/2025	Day	67.3	51.7	42.2	40	22.4	18*
	Evening	72.3	54.2	34.5	46.1	18.2	
	Night	64.8	47.4	35.6	35.1	15.8	
Thursday 19/06/2025	Day	69.9	51.3	44.4	41.7	29.3	
	Evening	59.8	48.5	31.1	34.2	18.1	**NIGHT**
	Night	65.2	47	35.2	35.1	15.6	17*
Friday 20/06/2025	Day	73.8	54.1	44.9	43.5	29.9	

* = Rounded up to nearest whole number for the purposes of defining the background level

3.3 Weather & Extraneous Noise

Half-hourly weather data obtained from the Oakey Aero BOM Station (BOM ID# 041359) was used to identify instances of adverse weather during the measurement period.

Several occurrences of adverse weather, including periods of wind greater than 5m/s, were observed throughout the measurement period. Data affected by these winds were filtered out of the analysis (refer to Appendix C).

Additionally, noise measurements at the location showed moderate levels of bird noise, particularly in the early mornings and mid-afternoons. Before analysis, this data was filtered to exclude frequencies typically associated with bird noise (3.15 to 5 kHz).

Despite these weather-related and extraneous noise factors, the ambient noise survey is considered to have produced a reliable and usable dataset for the assessment.

Table 4: Measured ambient & background noise levels at NML1

DATE	PERIOD	LAmax						LA01						LA10						LAeq						LA90					
		15min			1hr			15min			1hr			15min			1hr			15min			1hr			15min			1hr		
		Min	Max	Av	Min	Max	Av	Min	Max	Av	Min	Max	Av	Min	Max	Av	Min	Max	Av	Min	Max	Av	Min	Max	Av	Min	Max	Av	Min	Max	Av
Monday 16/06/2025	Day	42.4	79.3	55.4	56.3	79.3	65.6	39.1	60.1	47.9	45.8	55.4	49.7	31.8	46.4	38.9	38.0	44.9	40.2	31.5	47.4	37.1	35.4	43.0	39.0	19.9	29.4	23.1	21.3	24.3	22.2
	Evening	35.0	60.1	43.9	41.3	60.1	50.6	26.8	55.9	37.1	30.5	51.7	42.3	22.3	46.0	30.0	23.7	37.2	30.7	20.4	42.7	27.4	21.4	37.4	30.3	15.9	24.5	18.6	16.3	21.0	18.2
	Night	28.3	62.2	39.3	35.6	62.2	46.0	23.3	52.5	32.5	26.2	49.9	36.5	19.4	46.2	26.5	21.8	43.3	26.6	18.3	42.6	24.9	20.5	39.9	26.8	16.1	31.5	19.9	16.3	25.6	19.2
Tuesday 17/06/2025	Day	39.3	74.7	58.3	53.7	74.7	63.9	33.8	70.5	49.5	45.1	67.3	51.2	29.2	52.3	41.0	36.0	49.4	41.5	26.3	56.1	38.9	33.9	52.1	40.3	20.3	33.4	26.3	21.4	31.7	25.8
	Evening	35.6	59.6	44.5	47.1	59.6	51.9	30.8	55.3	40.1	39.3	49.9	44.5	26.1	38.9	32.5	29.6	35.5	32.6	23.7	40.9	30.3	29.5	35.9	32.4	18.1	25.7	20.7	18.9	21.2	20.0
	Night	31.2	59.0	42.9	41.0	59.0	50.6	26.1	52.9	36.4	32.2	48.9	40.3	22.3	45.6	29.7	24.2	41.6	29.8	20.7	41.5	28.0	23.7	38.8	29.6	18.1	32.2	22.1	18.6	29.9	21.6
Wednesday 18/06/2025	Day	44.6	67.3	57.0	56.2	67.3	62.3	37.5	59.6	49.4	47.8	56.4	51.4	28.4	49.1	40.4	34.5	44.9	41.3	27.0	46.1	38.1	34.8	42.7	39.5	19.7	31.8	24.7	20.6	31.1	24.1
	Evening	33.5	72.3	51.4	50.2	72.3	62.2	27.4	70.8	44.9	45.5	63.9	53.5	23.8	49.1	35.6	31.0	38.5	34.7	20.9	55.8	34.1	31.9	50.0	40.6	16.3	20.7	18.6	17.1	19.0	18.4
	Night	29.0	64.8	43.9	38.4	64.8	50.1	24.2	55.9	36.5	29.0	54.7	40.0	19.0	50.4	29.4	22.2	43.1	29.5	17.4	45.6	27.2	19.6	42.6	29.0	14.7	34.4	19.6	14.9	32.6	19.0
Thursday 19/06/2025	Day	46.3	69.9	57.6	56.1	69.9	61.0	42.6	55.8	50.3	48.3	54.5	50.8	35.8	48.7	42.7	38.8	46.7	43.1	33.3	46.0	40.6	37.0	45.1	40.8	24.7	38.8	32.2	25.7	38.2	31.9
	Evening	37.1	59.8	46.7	41.2	59.8	53.5	30.9	54.0	40.5	33.1	50.2	45.4	24.9	42.0	31.6	26.8	32.8	30.6	22.6	40.1	30.1	23.8	36.4	32.5	16.9	22.7	19.1	17.2	22.0	19.0
	Night	26.2	65.2	40.7	33.7	65.2	47.6	20.1	56.5	34.7	25.0	55.0	38.6	16.9	50.7	27.8	20.3	45.2	28.6	16.0	46.3	25.8	18.6	43.2	27.5	14.7	34.4	19.3	14.9	30.6	18.5
Friday 20/06/2025	Day	51.9	73.8	61.8	62.9	73.8	69.6	48.2	62.2	53.0	51.2	57.1	53.9	40.3	50.3	44.3	40.5	47.0	44.0	37.1	48.8	42.5	39.9	45.2	42.9	24.9	36.7	31.7	25.8	35.2	31.2

4 Noise Criteria

4.1 Toowoomba Regional Council Planning Scheme

The *Toowoomba Regional Planning Scheme* (v28) (TRPS) prescribes performance criteria and acceptable solutions for noise emissions in the Environmental Standards Code (Table 9.4.2.1) presented, in part, in Table 5 below, that a proposed development must demonstrate can be achieved where noise emissions have the potential to give rise to environmental nuisance or harm.

AO8.1 specifically references the Acoustic Quality Objectives prescribed in the now *Environmental Protection (Noise) Policy 2019* (EPP Noise).

Table 5: Toowoomba Regional Planning Scheme
Chapter 9.3.4.2 - Environmental Standards Code

PERFORMANCE OUTCOMES	ACCEPTABLE OUTCOMES
PO_8 The generation of noise from the premises does not cause Environmental Harm or Nuisance to adjoining properties or other noise sensitive land uses. (a) Development: (i) is located in an appropriate zone; (ii) proposes best practice design and construction materials (in relation to noise attenuation); and (iii) proposes operational practices that will minimise noise nuisance for adjoining sensitive land uses.	$AO_{8.1}$ The development will achieve the following noise levels (when measured at the nearest sensitive receiver): (a) Background (L90) + 5dB(A) for variable noise between the hours of 7:00 am to 10:00 pm (measured at the facade of the sensitive land use); (b) Background (L90) + 3dB(A) for variable noise between the hours of 10:00 pm and 7:00 am (measured within bedrooms assuming open windows); (c) Background (L90) for continuous noise sources (measured at the facade of the sensitive land use between 7:00 am and 10:00 pm and within bedrooms assuming open windows from 10:00 pm – 7:00 am); and (d) maximum limit LAmax 45dB(A) inside dwellings; and The development will achieve the Acoustic Quality Objectives listed within the *Environmental Protection (Noise) Policy 2008*. HOWEVER $AO_{8.2}$ Where a development is unable to meet noise levels specified in AO8.1 an acoustic assessment has been undertaken by a suitably qualified and skilled person which demonstrates that the development will not result in environmental nuisance at any existing or likely future residential premises (within a 10-year planning horizon).
PO_{13} Air conditioning units, refrigeration units and any other form of mechanical ventilation or extraction systems do not adversely impact on the acoustic amenity of surrounding sensitive land uses.	$AO_{13.1}$ Plant of this nature is not elevated, is acoustically shielded (if necessary) and will not be audible at adjoining sensitive receivers. $AO_{13.2}$ Roof-top mounted plant and equipment is located away from surrounding sensitive land uses and is acoustically shielded to achieve a nil increase in background noise levels (L_{90}) at the nearest sensitive receiver.

4.2 Acoustic Quality Objectives

The *Environmental Protection Act 2019* (EP Act) provides for the protection of environmental values, including environmental values relating to maintenance of public amenity. The EP Act establishes several environmental protection policies. In relation to noise, the EPP Noise supports the EP Act. The EPP Noise Section 7 outlines the key environmental values for the acoustic environment, as set out below:

The environmental values to be enhanced or protected under this policy are:

a) The qualities of the acoustic environment that are conducive to protecting the health and biodiversity of ecosystems; and

b) The qualities of the acoustic environment that are conducive to human health and wellbeing, including by ensuring a suitable acoustic environment for individuals to do any of the following

i. Sleep;

ii. Study or learn;

iii. Be involved in recreation, including relaxation and conversation; and

c) The qualities of the acoustic environment that is conducive to protecting the amenity of the community.

To assist in determining noise levels consistent with the identified environmental values, the EPP Noise also sets out Acoustic Quality Objectives listed in Schedule 1. The applicable Acoustic Quality Objectives from Schedule 1 of the policy relevant to this assessment are presented in Table 6 below.

It should be noted that the in accordance with Part 3, s8 (3) of the policy it is intended that the Acoustic Quality Objectives are to be progressively achieved as part of achieving the purpose of the policy over the long term.

Table 6: *EPP (Noise) 2019* noise level limits

SENSITIVE RECEPTOR	PERIOD^	ACOUSTIC QUALITY OBJECTIVE*			ENVIRONMENTAL VALUE
		$L_{Aeq\ 1hr}$	$L_{A10\ 1hr}$	$L_{A01\ 1hr}$	
Dwelling (Outdoors)	Daytime Evening	50	55	65	Health and wellbeing
Dwelling (Indoors)	Daytime Evening	35	40	45	Health and wellbeing
	Night-time	30	35	40	Health and wellbeing, in relation to the ability to sleep

* Measured at receptor

^ Time periods are defined as follows:

- Daytime - the 11-hour period between 0700 and 1800 hours.
- Evening - the 4-hour period between 1800 and 2200 hours.
- Night-time - the 9-hour period between 2200 hours and 0700 hours.

Comparison of the Acoustic Quality Objectives and the measured existing ambient and noise levels at the site, as presented in Table 4, indicates the ambient noise levels at the site are well below the Acoustic Quality Objectives. They are therefore not considered an appropriate basis for determination of noise criteria to protect the environmental values of the nearby sensitive receptors.

Consequently, the 'controlling background creep' criteria specified in the Environmental Standards Code (Table 5) of the TRPS are applied to this assessment. As some of these criteria are applicable to indoors, a 10 dB(A) noise reduction through an open window (refer to Section 5.5.1 on Page 19 for underlying assumptions) has been assumed.

4.3 Sleep Disturbance

As operating hours for the development are proposed to be 24 hours due to the nature of the establishment, it is appropriate to consider the potential for sleep disturbance at each accommodation room proposed as part of the development and surrounding nearby sensitive receptors.

A sleep disturbance criterion of LAmax 45 dB(A) inside dwellings is provided at A08.1(d) of the Environmental Standards Code of the TRPS. This noise level value is based on the World Health Organisation's (WHO) level contained in its document entitled *Guidelines for Community Noise* (WHO, 1999), which recommends that to avoid sleep disturbance within bedrooms, indoor guideline values of LAmax 45 dB(A) should be adopted for single sound events.

The under review *Queensland Eco access Guideline: Noise - Planning for Noise Control* (2004), which refers to the WHO guidelines, indicates that unreasonable sleep disturbance impacts due to impulsive noise sources such as car starts, and door slams can occur at levels of 45 to 50 dB(A) within a bedroom depending upon the number of noise events per night:

> *'As a rule in planning for short term-transient noise events, for good sleep over eight hours, the indoor sound pressure level measured as a maximum instantaneous value should not exceed approximately 45 dB(A) max LpA more than 10-15 times per night. The corresponding external noise level, assuming partially closed windows is 52 dB(A) maxLPA, measured in the free field'.*

The WHO guideline also states the following about sleep disturbance from continuous noise and annoyance response:

> *'Where noise is continuous, the equivalent sound pressure level should not exceed 30 dB(A) indoors if negative effects on sleep are to be avoided. When the noise is composed of a large proportion of low-frequency sounds a still lower guideline value is recommended, because low-frequency noise (e.g., from ventilation systems) can disturb rest and sleep even at low sound pressure levels.*
>
> *Annoyance to community noise varies with the type of activity producing the noise. Speech communication, relaxation, listening to radio and TV are all examples of noise-producing activities. During the daytime, few people are seriously annoyed by activities with LAeq levels below 55 dB; or moderately annoyed with LAeq levels below 50 dB. Sound pressure levels during the evening and night should be 5 - 10 dB lower than during the day. Noise with low-frequency components require even lower levels'.*

Consideration of potential sleep disturbance noise criteria should also consider the existing noise environment i.e., whether existing noise from vehicles on public roads results in noise levels above the default planning criteria outlined in the Planning for Noise Controls guidelines (EHP, 2004).

As the location is very quiet, it is considered appropriate the lower end of the value range (45 dB(A)) recommended in the Planning for Noise Controls guidelines be utilised as per the Environmental Standards Code (LAmax 45 dB(A)).

Adopting a 10 dB(A) noise reduction through an open window (refer to Section 5.5.1 on Page 19 for underlying assumptions) the external sleep disturbance criteria for time varying noise translates to LAmax 60 dB(A). A summary of the adopted sleep disturbance criteria for the assessment is provided in Table 7 below.

Table 7: Adopted assessment sleep disturbance & annoyance criteria

DESCRIPTOR	NO. NOISE EVENTS	INDOOR CRITERION L_{Amax} (dB(A))	OUTDOOR CRITERION L_{Amax} (dB(A))
Sleep Disturbance (Short Duration Events)	10 - 15	45	55

4.4 Summary of Adopted Assessment Noise Criteria

The adopted environmental noise emission criterion utilised in the assessment is summarised in Table 8 below. This criterion is based on the measured ambient and background noise levels for the NML1 as outlined previously.

Table 8: Summary of adopted noise assessment criteria

FACET	SOURCE	NOISE TYPE	PERIOD	DESCRIPTOR	EXTERNAL CRITERIA (dB(A))
Background Creep	TRPS	Variable	Daytime	LAeq 15min	29
			Evening	LAeq 15min	23
			Night-time	LAeq 15min	20
Sleep Disturbance	WHO PNC	Variable	Night-time	LAmax	55

5 Noise Assessment

5.1 Noise Prediction Method

A three (3) dimensional computer model was developed using SoundPLAN Essential 5.1 software to predict noise emissions associated with the proposed development.

SoundPLAN is a widely recognised software package used across Australia - and internationally - for calculating, assessing, and predicting noise propagation. It is approved by all Australian environmental regulatory bodies and many others globally as a reliable tool for environmental noise modelling.

This software enables detailed modelling by incorporating factors such as the horizontal and vertical positioning of noise sources, distance-based attenuation (due to geometric spreading), terrain reflections, ground absorption, building-induced diffraction and reflection, and prevailing meteorological conditions.

The model applied in this assessment calculated noise propagation as per ISO 9613-2 (1996) *Acoustics - Attenuation of sound during propagation outdoors*. Terrain input for the modelling was sourced from *Geoscience Australia's* one-metre resolution Digital Elevation Model (DEM) based on LiDAR-derived bare-earth data collected between 2001 and 2015.

In addition to this terrain data, the model incorporated adjusted sound power levels to reflect short-term and fluctuating noise sources, land surface characteristics, surrounding structures, and atmospheric information to refine predicted noise levels. Mobile sources such as vehicles were represented in the model as line sources and placed in typical worst-case locations.

Modelling performed did not include predictions under varying meteorological scenarios.

5.2 Variable Noise Sources

Key variable noise sources considered in the assessment included noise emanating from vehicle usage including manoeuvring, conversations by patrons along with collective prayer. Sound power levels for the range of variable noise sources assessed and modelled are outlined in Table 9 below.

Table 9: Modelled sound power levels for variable noise sources

ACTIVITY / NOISE SOURCE	SOURCE HEIGHT & TYPE	EVENT DURATION NOISE LEVEL (dB(A))				SOURCE
		L_{Amax}	L_{A01}	L_{A10}	L_{Aeq}	
A-A - Car Bypass @ 5km/hr	0.5m Line	81	73	70	68	Yarramine Library
A-B - Car Starting	0.5m Point	86	83	77	76	Yarramine Library
A-C - Car Idling	0.5m Point	85	75	71	67	Yarramine Library
A-D - Car Door Closure	0.5m Point	87*	83*	77*	75*	Yarramine Library
B - Voice Conversation	1.8m Point	64	62	60	58	Yarramine Library
C - Refuse Service Tipping	2m Point	96*	92*	88*	80*	Yarramine Library
D - Service Delivery	0.8m Line	82	77	73	69	Yarramine Library
E - Outdoor Collective Prayer	1.8m 18 x 28 Area	79	75	70	68	Yarramine Library (Boisterous Conversation)

* = Denotes +5dB correction for impulsiveness. ** Denotes + 5dB correction for tonality

5.3 Modelled Scenarios

Given the ambient noise environment, location of sensitive receptors, proposed hours of operation and types of noise generated, two (2) modelling scenarios were prepared via SoundPLAN comprising of the following:

1. **Variable Sources - Day, Evening & Night (LAeq) & Nigh (LAmax)** - Consisting of a mixture of time and duration adjusted variable noise sources listed in Table 9, the sound power level calculations presented in Appendix D and scenario assumptions outlined below.

5.4 Modelling Scenario Assumptions

Table 10 below details the input assumptions used in preparing the propagation model.

Table 10: Noise model input assumptions

MODELLING COMPONENT	ASSUMPTION
Noise model	SoundPLAN Essentials 5.1
Prediction algorithm	Operational Noise - ISO 9613-2
Meteorology	ISO 9613 considers the presence of a well-developed moderate ground-based temperature inversion, such as commonly occurs on clear, calm nights or 'downwind' conditions which are favourable to sound propagation
Ground absorption coefficient	G = 1 - 100% soft
Atmospheric absorption	Based on an average temperature of 25 °C and an average humidity of 60%
Receptor Type & Height	Freefield, 1.8 m above ground level

In summary modelling was conducted based on the following primary scenario assumptions:

- Noise predictions have been modelled assuming source types and heights as indicated in Table 9 and for durations and periods detailed in Appendix D.
- Ten (10) vehicles movements per hour during each time period (i.e. 5 departures and 5 arrivals all day, evening and night).
- Noise events such as door closures and engine starts were predicted using carpark locations positioned as close as practicable to the nearest sensitive receptor.
- Vehicle door closures were assumed at a rate of one per movement, representing a single occupant per vehicle.
- All conversational noise was assumed to be of an in-depth nature, take place outside and modelled at a rate of three (3) per hour, day, evening and night. This represents an unrealistic but worst-case scenario especially for the night-time period.
- Even though the development has its own fleet of services vehicles (vans) service deliveries have been modelled to occur once daily, during the day period, every day of the week.
- Bulk refuse collection was also modelled as occurring within daytime hours only.
- To simulate meditation and chanting activities, the model incorporates an 'outdoor collective prayer' noise source, even though such activity typically takes place within the hall situated onsite. Four sessions – two during the day period and one each during the evening and night time - are modelled to occur over a 28m x 18m area encapsulating up to 50 participants.

- All noise sources were modelled as occurring simultaneously. While this assumption has minimal effect on LAeq values - given that variable noise sources are time and duration-adjusted to reflect average levels - it creates an overly conservative scenario for LAmax. It is highly improbable that all sources would produce their maximum sound levels concurrently due to the typically short duration of individual noise events. As such, the LAmax predictions represent an unrealistic but worst-case scenario.

5.5 General Assumptions & Limitations

5.5.1 Façade Attenuation

To convert indoor criterion to outdoor criterion it is typical to apply a dB(A) increase to account for sound loss as it travels from outside to inside due to the building façade and in a manner which allows for a naturally ventilated room with windows open. AS3671 states an approximate 10 dB(A) noise reduction through a façade with 10% open area, thus an approximate 7.5 dB(A) noise reduction through a façade with 40% open area can be expected.

Assuming a large 1200mm x 1800mm sliding window relates to approximately 10% open area, and a larger 2100mm x 2300mm sliding glass door represents approximately 20% open area, these assumptions can be utilised to determine an appropriate façade reduction value. In this case, assuming a bedroom is located on the closest facing dwelling façade and this rooms contains a single sliding window it is reasonable to expect an open window to room wall ratio of 10% and hence a façade reduction value of 10 dB(A).

5.5.2 Tonality & Impulsiveness Adjustment

Adjustments may have to be made to measured sound pressure levels of sound sources in some cases. The adjusted sound pressure level is the measured sound pressure level adjusted for tonal and impulsive characteristics of the noise.

The presence of tonal or impulsive characteristics creates added annoyance. If a noise has tonal characteristics (especially at high frequencies) or impulsive characteristics, it can be perceived as more annoying than a noise heard without these characteristics. Examples of tonal noise include, reversing beepers, alarms, bells, buzzers, the screeching of mechanical plant, grinding metal. Examples of impulse noises include a metal press and hammering.

Tonal noise can be defined as having a prominent frequency and characterised by a defined pitch. A tonal characteristic can be identified objectively in accordance with the method in AS1055.

The method involves comparing noise levels in adjacent one-third octave bands. If tonal components are clearly audible and they can be detected by a one third octave analysis the adjustment may be 5dB. If the components are only just detectable by the observer and demonstrated by narrow band analysis, an adjustment of 2-3dB may be appropriate. If the A-weighted 1/3rd octave analysis confirms that the tonal band exceeds both neighbouring bands by 5dB the user is permitted to subjectively adjust the level. The adjustment can be 0 to 5dB to the component level depending on the audibility of the tone.

Impulse noise can be defined as having a high peak of short duration or a sequence of such peaks (bangs, clicks, clatters, or thumps). To determine if an adjustment is necessary, one must measure the source noise using both A-weighted Fast response and Impulse response. If the difference in A-weighted maximum noise levels between Fast response and Impulse response is greater than 2dB then apply difference in measured levels as the correction up to a maximum of 5dB. The impulse adjustment should then be added to the component level (LAeq or LAmax) and should not exceed 5dB.

Combined adjustments for tonality and impulsive noise in total should not exceed 10dB.

5.5.3 Sound Perceptibility

Considering the intricacies of sound perception by the human ear and that a 3dB(A) increase in sound level is barely noticeable, it is assumed that a 2dB(A) exceedance of the nominated noise criterion is in fact compliant from a practical perspective.

6 Predicted Noise Impacts

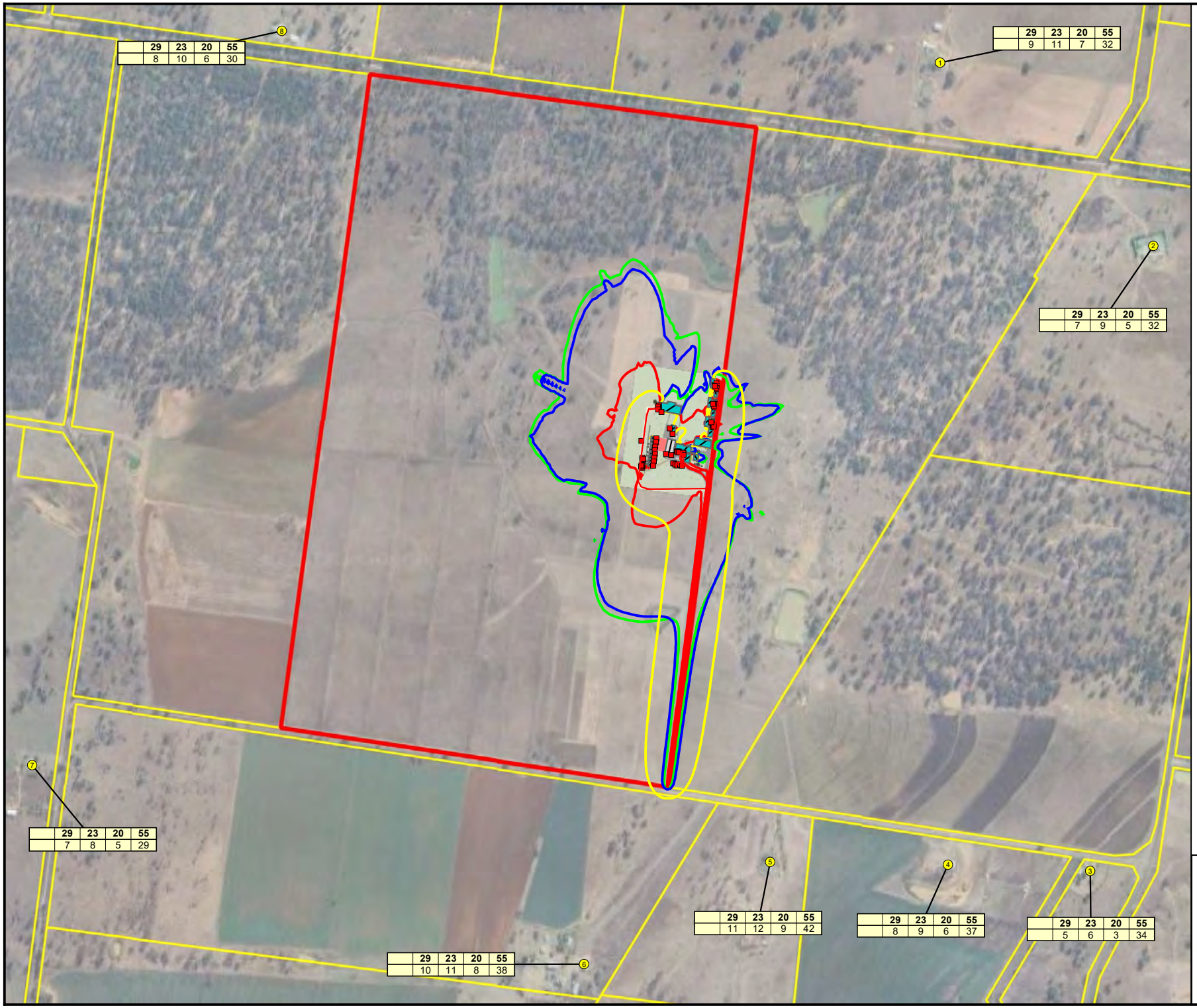
Predicted noise levels at surrounding sensitive receptors are presented in Table 11 below.

For all periods, receptors and noise descriptors and without any noise mitigation measures or controls, no exceedances of the adopted noise criteria are predicted.

Figure 4 overleaf presents a map generated by SoundPLAN showing modelled façade exposure levels. Noise level contours generated by SoundPLAN for the day, evening and night for the LAeq noise descriptor and night for the LAmax noise descriptor are provided in Appendix E.

Table 11: Predicted variable noise levels at sensitive receptors

ID	NO	RECEPTOR NAME	PREDICTED NOISE LEVELS			
			WITHOUT MITIGATION			
			LAeq 15 mins			LAmax
			D	E	N	N
SR1	1	118 Kudo Silverleigh Rd	9.5	10.8	7.4	32.2
SR2	2	721 Kudo Silverleigh Rd	7.5	8.8	5.4	32.0
SR3	3	15 Gordon Smiths Rd	5.2	6.5	3.2	33.6
SR4	4	224 Gordon Smiths Rd	7.9	9.1	5.9	37.1
SR5	5	93 Gordon Smiths Rd	11.1	12.4	9.2	42.4
SR6	6	111 Gordon Smiths Rd	9.6	10.9	7.5	38.2
SR7	7	186 Norgaards Rd	6.7	8	4.6	29.1
SR8	8	280 Kudo Silverleigh Rd	8.3	9.6	6.2	29.7
	ADOPTED CRITERION		**29**	**23**	**20**	**55**



Predicted Noise Levels at Sensitive Receptors

Façade Exposure Without Mitigation

Model Run Date: 24/07/2025
Modeller: ADH
Client: Shriek Building Group
Job No: YEP2025052

125 Kudo Silverleigh Road
GOOMBUNGEE QLD 4354

Modelling Scenario Notes

Meteorological Conditions: N/A
Mitigation: Without
Hours of Operation: 24 hours a day

Legend

- Main Building
- Auxiliary Building
- Receiver
- Point Source
- Line Source
- Area Source
- Limit line Day: 29 dB(A)
- Limit line Evening: 23 dB(A)
- Limit line Night: 20 dB(A)
- Limit line Lmax: 55 dB(A)

N

1 : 12500

0 50 100 200 300 400 m

yarramine environmental

7 Conclusion

Yarramine was engaged by Schriek Building Group to undertake an Environmental Noise Impact Assessment in support of an Information Request to Toowoomba Regional Council (TRC) for a Material Change of Use Development Application for a Rooming Accommodation at 125 Kudo Silverleigh Road, GOOMBUNGEE.

In undertaking the assessment, ambient noise monitoring was conducted at the site and through modelling, predictions of onsite activity, noise emissions and their impact on surrounding sensitive receptors was examined.

Findings of the assessment indicate the expanded rooming accommodation will achieve compliance with the adopted noise criteria without the need for any noise mitigation measures or controls, and on the whole would not have a detrimental impact on the acoustic amenity of the area. This is largely due to the significant distances to nearby sensitive receptors.

To this end, Council's favourable consideration of the proposal, subject to reasonable and relevant conditions, is respectfully requested.

It is worth noting that the current development approval includes a requirement for a Noise Management Plan. A copy of this Noise Management Plan, which includes a complaints management procedure is in included in Appendix F.

8 References

EHP, 2004, *Planning for Noise Control Guidelines,* Queensland Government, Brisbane

EHP, 2019, *Environmental Protection (Noise) Policy*, Current as at 1 September 2019, Queensland Government, Brisbane.

Standards Australia, AS1055.1:2018, *Acoustics – Description and measurement of environmental noise.*

Standards Australia AS/NZS IEC61672.1:2019 *Electroacoustics – Sound Level Meters – Specifications*.

TRC, 2012. *Toowoomba Regional Planning Scheme,* Version 28 commenced 22 November 2022, Toowoomba Regional Council.

World Health Organisation (WHO), 1999, *Guidelines for Community Noise*, World Health Organisation, Geneva.

Appendix A

PROPOSAL DRAWINGS BY ASPECT ARCHITECTS

PROPERTY DESCRIPTION

LOT 2
R.P. 50559
PARISH OF KING
COUNTY OF AUBIGNY

AREA - 161.958 HA

PROJECT SUMMARY

PLANNING DETAILS

SITE AREA	161.958 HA
BUILDING NUMBERS	6 PROPOSED ACCOMMODATION BUILDINGS 6 PROPOSED ACTIVITY ROOM BUILDINGS 2 PROPOSED TOILET BUILDINGS 1 EXISTING TEMPLE 1 EXISTING CARETAKERS RESIDENCE 1 EXISTING ACCOMMODATION BUILDING 1 EXISTING EXISTING ACTIVITY ROOM BUILDING 1 EXISTING ADMIN BUILDING 1 SHED BUILDING

BUILDING DETAILS

NEW ACCOMMODATION BUILDINGS	
BUILDING CLASS:	CLASS 3 (TBC)
TOTAL BUILDING FOOTPRINT:	956m²
CONSTRUCTION TYPE:	TYPE C (TBC)
NEW ACTIVITY ROOM BUILDINGS	
BUILDING CLASS:	9b (TBC)
TOTAL BUILDING FOOTPRINT:	315m²
CONSTRUCTION TYPE:	TYPE C
2 PROPOSED TOILET BUILDINGS	
BUILDING CLASS:	9b (TBC)
TOTAL BUILDING FOOTPRINT:	40m²
CONSTRUCTION TYPE:	TYPE C

SITE COVERAGE LEGEND

- EXISTING ANCILLARY STRUCTURES
- EXISTING BUILDINGS
- EXISTING HARD SURFACES
- EXISTING LANDSCAPING
- PROPOSED ACCOMMODATION BUILDINGS
- PROPOSED ACTIVITIES BUILDING
- PROPOSED COMMUNAL DINING BUILDING
- PROPOSED GARDENS
- PROPOSED BITUMEN DRIVEWAY
- PROPOSED HARDSTAND DRIVEWAY
- PROPOSED CONCRETE HARDSTAND PATH
- PROPOSED TREES
- EXISTING TREES TO REMAIN

FENCE TYPE LEGEND

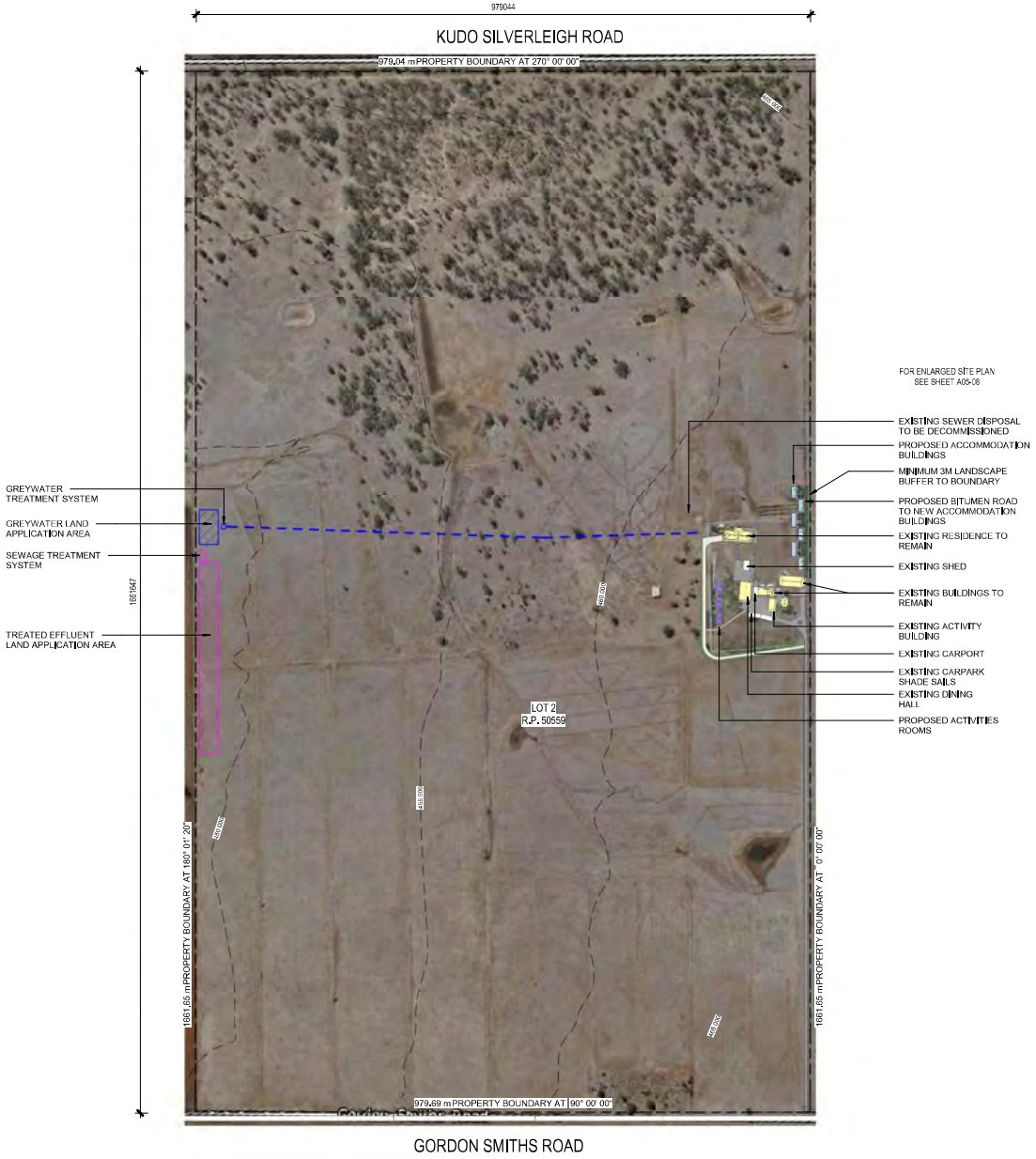
- FN-01 EXISTING POST AND WIRE FENCE
- FN-02 EXISTING FENCE
- FN-03 NEW FENCE

SITE NOTES

1 DO NOT SCALE DRAWINGS
2 SETTING OUT DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. ANY SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR BEFORE CONSTRUCTION.
3 ALL WORKMANSHIP AND MATERIALS SHALL BE INACCORDANCE WITH THE CURRENT EDITIONS OF THE AUSTRALIAN STANDARDS, NATIONAL CONSTRUCTION CODE, QUEENSLAND DEVELOPMENT CODE AND BY-LAWS OF THE LOCAL REGIONAL COUNCIL

NOTE
BUILDER TO PROVIDE RAINWATER TANK TO COMPLY WITH LOCAL COUNCIL REQUIREMENTS, EXACT POSITIONING TO BE CONFIRMED WITH CLIENT PRIOR TO CONSTRUCTION.

ADDITIONAL RAIN WATER TO BE DISPERSED ON SITE VIA, IN GROUND BUBBLERS LOCATED MINIMUM 5m FROM FOOTINGS AND PROPERTY BOUNDARY OR DISCHARGED TO KERB AND CHANNEL AS PER COUNCIL REGULATIONS.



1 **OVERALL SITE PLAN 2**
1 : 4000

NOT FOR CONSTRUCTION

ASPECT
TOOWOOMBA | SUNSHINE COAST
P. (07) 4632 9962 | WWW.ASPECTAPM.NET
A.B.N 96071786948 | BOAQ 4487

120 GORDON SMITHS RD, GOOMBUNGEE

OVERALL SITE PLAN

AA05-07

Project No. 240205

DA ISSUE

Stage DA | Revision E | 21/08/25 | Designer BB/JR | View Scal As indicated @ A1

Scale Bar 1:4000 @ A1 0m 40 80 120 160 200

PROPERTY DESCRIPTION

LOT 2
R.P. 50559
PARISH OF KING
COUNTY OF AUBIGNY

AREA - 161.958 HA

PROJECT SUMMARY

PLANNING DETAILS

SITE AREA	161.958 HA
BUILDING NUMBERS	6 PROPOSED ACCOMMODATION BUILDINGS 6 PROPOSED ACTIVITY ROOM BUILDINGS 2 PROPOSED TOILET BUILDINGS 1 EXISTING TEMPLE 1 EXISTING CARETAKERS RESIDENCE 1 EXISTING ACCOMMODATION BUILDING 1 EXISTING EXISTING ACTIVITY ROOM BUILDING 1 EXISTING ADMIN BUILDING 1 SHED BUILDING

BUILDING DETAILS

NEW ACCOMMODATION BUILDINGS	
BUILDING CLASS:	CLASS 3 (TBC)
TOTAL BUILDING FOOTPRINT:	956m²
CONSTRUCTION TYPE:	TYPE C (TBC)
NEW ACTIVITY ROOM BUILDINGS	
BUILDING CLASS:	9b (TBC)
TOTAL BUILDING FOOTPRINT:	315m²
CONSTRUCTION TYPE:	TYPE C
2 PROPOSED TOILET BUILDINGS	
BUILDING CLASS:	9b (TBC)
TOTAL BUILDING FOOTPRINT:	40m²
CONSTRUCTION TYPE:	TYPE C

SITE COVERAGE LEGEND

- EXISTING ANCILLARY STRUCTURES
- EXISTING BUILDINGS
- EXISTING HARD SURFACES
- EXISTING LANDSCAPING
- PROPOSED ACCOMMODATION BUILDINGS
- PROPOSED ACTIVITIES BUILDING
- PROPOSED COMMUNAL DINING BUILDING
- PROPOSED GARDENS
- PROPOSED BITUMEN DRIVEWAY
- PROPOSED HARDSTAND DRIVEWAY
- PROPOSED CONCRETE HARDSTAND PATH
- PROPOSED TREES
- EXISTING TREES TO REMAIN

Site Coverage

Name	Area	Percentage
EXISTING ANCILLARY STRUCTURES	252 m²	0,02%
EXISTING BUILDING	2601 m²	0,16%
EXISTING HARD SURFACES	10782 m²	0,67%
EXISTING LANDSCAPING	1602783 m²	98,96%
PROPOSED ACCOMMODATION BUILDINGS	955 m²	0,06%
PROPOSED ACCOMMODATION CARPARKING	208 m²	0,01%
PROPOSED ACTIVITY ROOM	287 m²	0,02%
PROPOSED AMENITIES	33 m²	0,00%
PROPOSED CONCRETE HARDSTAND PATH	497 m²	0,03%
PROPOSED GARDENS	612 m²	0,04%
PROPOSED HARD DRIVEWAY	577 m²	0,04%
Grand total	1619588 m²	100,00%

ABBREVIATION LEGEND

FN-02 Fence, Existing
WT Water Tank

FENCE TYPE LEGEND

FN-01 EXISTING POST AND WIRE FENCE
FN-02 EXISTING FENCE
FN-03 NEW FENCE

SITE NOTES

1 DO NOT SCALE DRAWINGS
2 SETTING OUT DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS, ANY SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR BEFORE CONSTRUCTION
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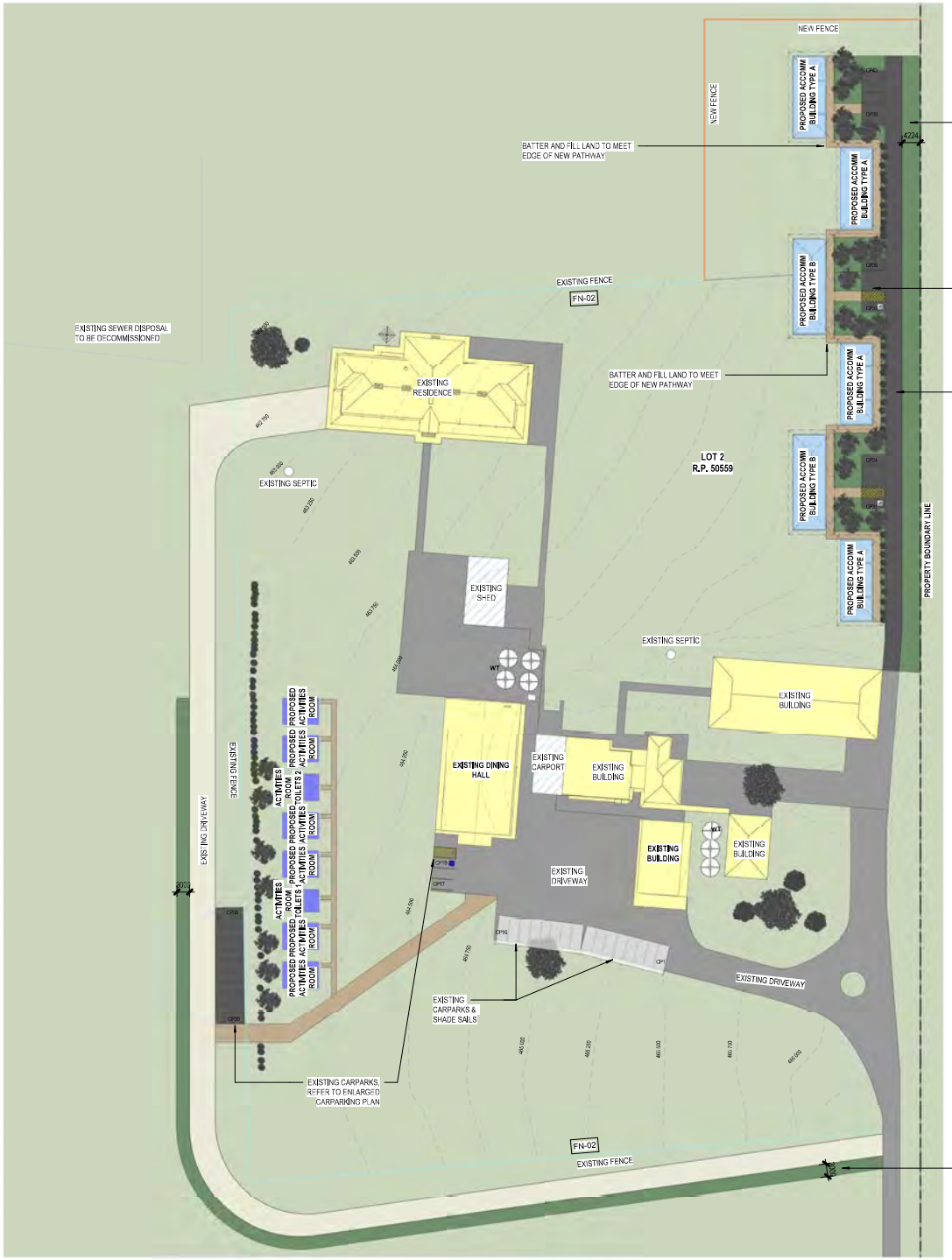
NOTE
BUILDER TO PROVIDE RAINWATER TANK TO COMPLY WITH LOCAL COUNCIL REQUIREMENTS, EXACT POSITIONING TO BE CONFIRMED WITH CLIENT PRIOR TO CONSTRUCTION.

ADDITIONAL RAIN WATER TO BE DISPERSED ON SITE VIA, IN GROUND BUBBLERS LOCATED MINIMUM 5m FROM FOOTINGS AND PROPERTY BOUNDARY OR DISCHARGED TO KERB AND CHANNEL AS PER COUNCIL REGULATIONS.



1 ENLARGED SITE PLAN 2
1 : 550

NOT FOR CONSTRUCTION

ASPECT
TOOWOOMBA | SUNSHINE COAST
P. (07) 4632 9962 | WWW.ASPECTAPM.NET
A.B.N 96071786948 | BOAQ 4487

120 GORDON SMITHS RD, GOOMBUNGEE

ENLARGED SITE PLAN

AA05-08

Project No. 240205

DA ISSUE

Stage DA

Revision F | 21/08/25

Designer BB/JR

View Scal As indicated @ A1

Scale Bar 1:550 @ A1 0m 5,5 11 16,5 22 27,5

Appendix B

SLM CALIBRATION CERTIFICATES

CERTIFICATE OF CALIBRATION

Certificate Number: 8727

NATA Accreditation No: 20688

Customer: **Active Environmental Solutions**

Test Object:	Manufacturer:	Model:	Serial No:	ID:
Sound Level Meter	Cirrus	Optimus 171B	G305514	8727
Microphone	Cirrus	MK224	217558A	8727
Preamplifier	Cirrus	MV200F	14396F	8727
Calibrator	Cirrus	515	104264	8728
Connecting Cable	None	-	-	-

Information:

Test Configuration:	Microphone on Preamp
Instrument Manual:	Optimus Sound Level Meters User Manual Part B Technical Information
Firmware Version:	V5.8.3251
Class of Instrument:	Class 1
Source of Correction Data:	Cirrus
Reference Level:	94 dB
Reference Level Range:	55 - 135 dB

Environmental Conditions:	Pressure	Temperature	Relative Humidity
Reference Conditions:	101.325 kPa	23.0 °C	50.0 % RH
Conditions Before Measurement:	101.68 kPa	20.8 °C	66.7 % RH
Conditions After Measurement:	101.68 kPa	25.4 °C	54.0 % RH

The laboratory environmental conditions remained within the acceptable limits as defined in IEC 61672.3 and IEC 61260 throughout the calibration test.

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests (2013)*, and *DIN 45657 Sound Level Meters – Requirements for Special Applications (2015).* Where applicable testing has also been completed in accordance with *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters (2016)*.

This certificate only relates to the test object calibrated. This certificate shall only be reproduced in full with the permission of Calibre Technology.

Accredited for compliance with ISO/IEC 17025 - Calibration.
The results of the tests, calibrations and/or measurements included in this document are traceable to the International System of Units (SI) via international or Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

Date of Calibration: 10/10/2024
Date of Issue: 10/10/2024
Authorised Signatory:

Claire Richardson

CERTIFICATE OF CALIBRATION

Certificate Number: **8056** **NATA Accreditation No: 20688**

Customer: **Active Environmental Solutions**
2 Merchant Avenue, Thomastown, VIC 3074

Test Object:	**Calibrator**
Manufacturer:	**Cirrus**
Model:	**515**
Serial No:	**85060**
Class:	**Class 1**
Adapter Make:	**None**
Adapter Model:	**N/A**

Environmental Conditions:	**Pressure**	**Temperature**	**Relative Humidity**
Reference Conditions:	101.325 kPa	23.0 ℃	50.0 % RH
Measurement Conditions:	101.655 kPa	22.4 ℃	48.1 % RH

Measurement Results:	**Level**	**Frequency**	**THD + Noise**
1:	93.85 dB	1000.37 Hz	1.82 %
2:	93.85 dB	1000.37 Hz	1.82 %
3:	93.83 dB	1000.39 Hz	1.83 %
Result (Average):	93.84 dB	1000.37 Hz	1.82 %
Expanded Uncertainty:	0.11 dB	1.00037 Hz	0.3 %
Degree of Freedom:	>100	>100	>100
Coverage Factor:	2.00	2.00	2.00

The stated level is relative to 20µPa and is valid at measurement conditions.
Tested when received – no adjustments required to comply with tolerances in IEC 60942.

Accredited for Compliance with ISO/IEC 17025 - Calibration
The results of the tests, calibrations and/or measurements included in this document are traceable to the International System of Units (SI) via International and Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

Date of Calibration: 20/05/2024
Date of Issue: 21/05/2024
Authorised Signatory:

Claire Richardson

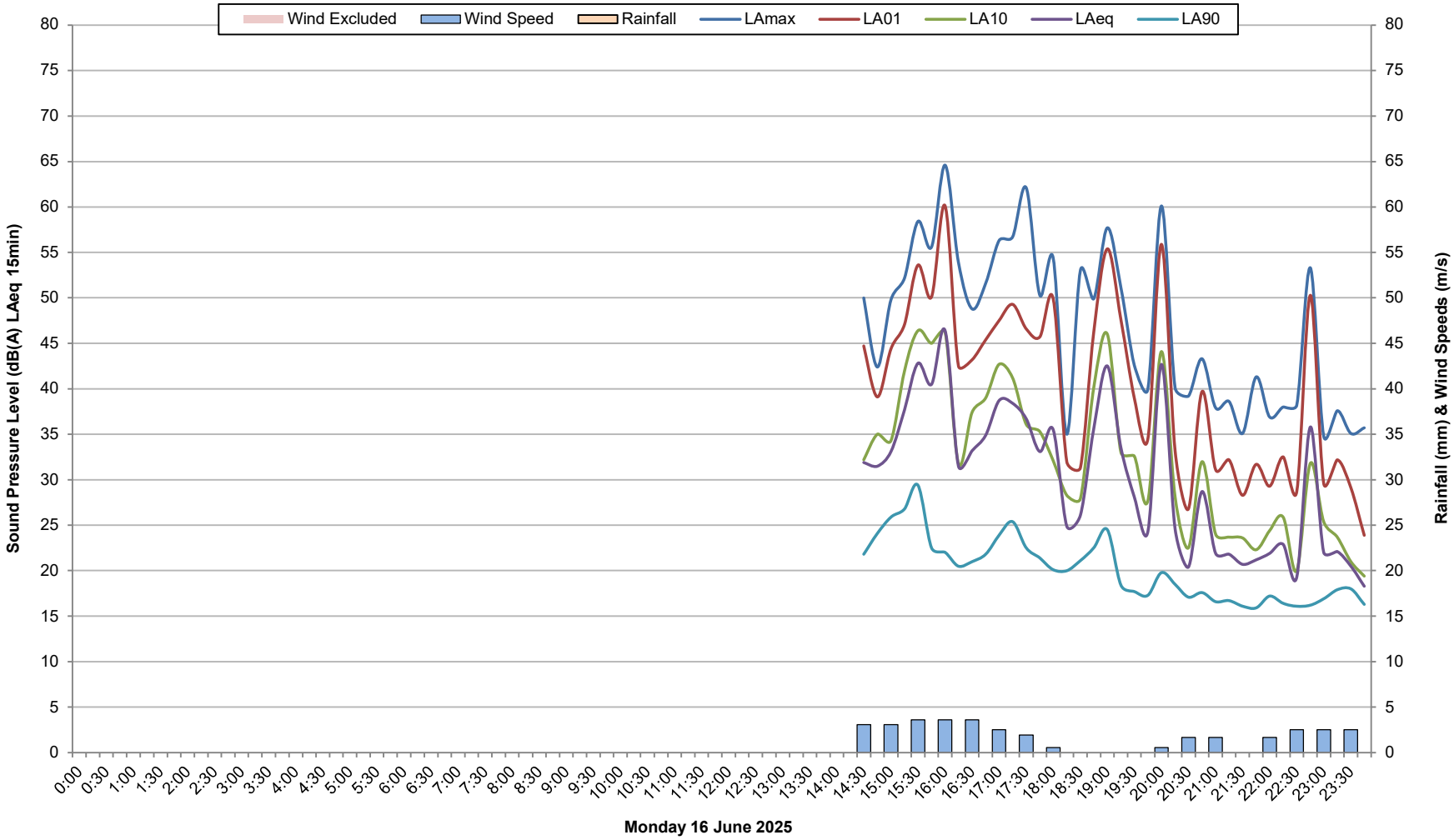
Appendix C

EXISTING AMBIENT NOISE LEVELS

Ambient Noise Survey

125 Kudo Silverleigh Road, GOOMBUNGEE

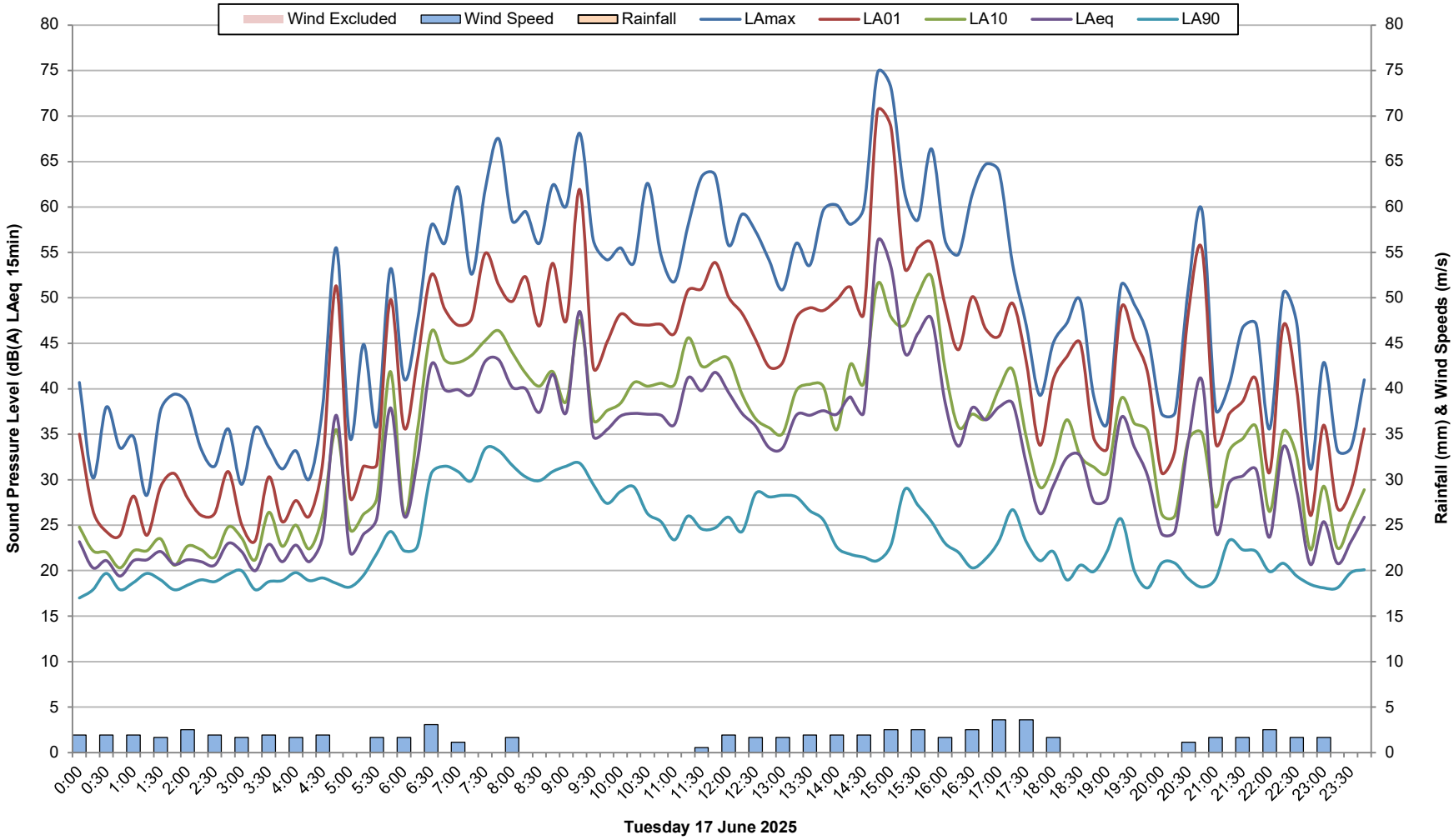
16-20 June 2025



Ambient Noise Survey

125 Kudo Silverleigh Road, GOOMBUNGEE

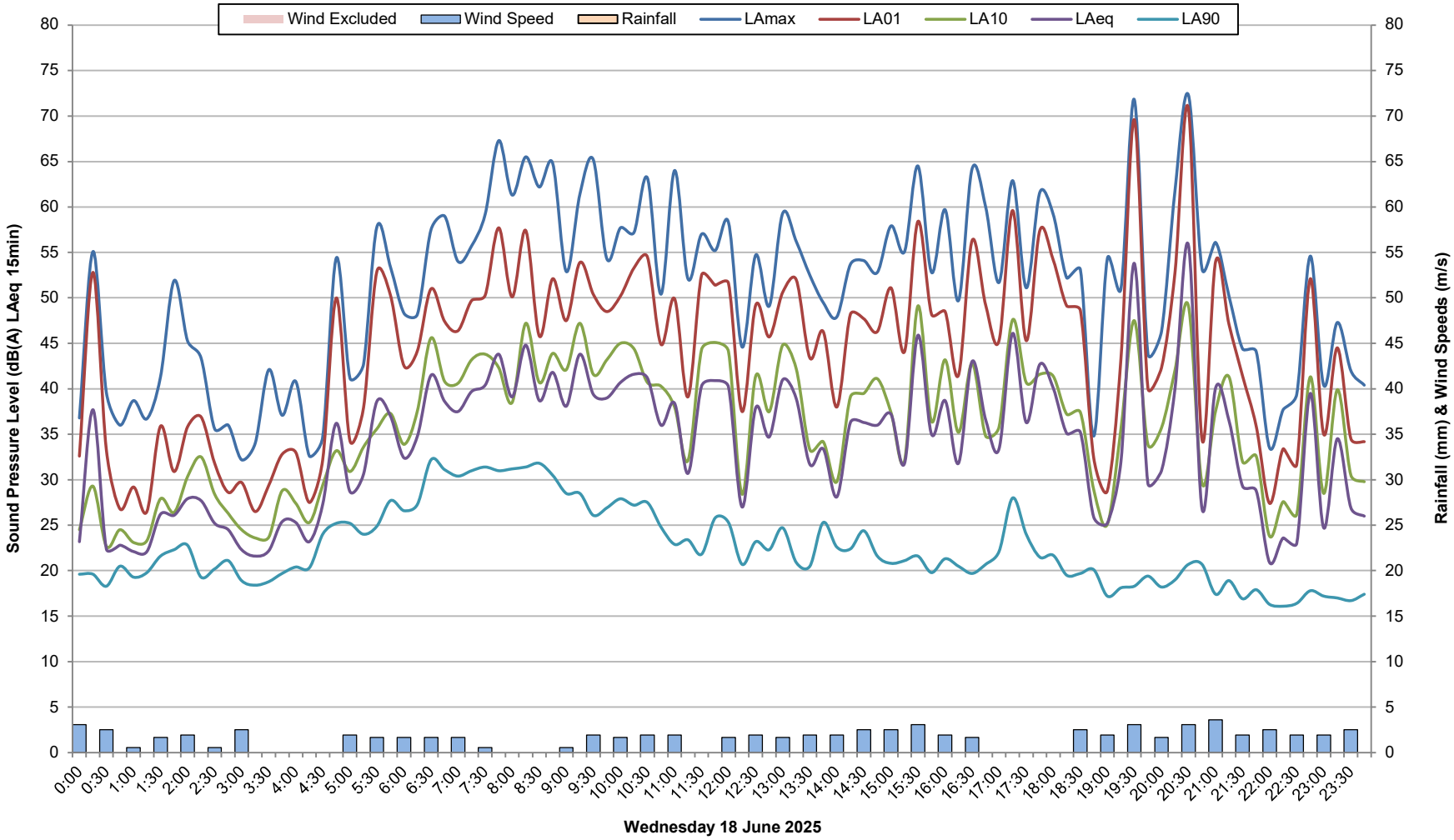
16-20 June 2025



Ambient Noise Survey

125 Kudo Silverleigh Road, GOOMBUNGEE

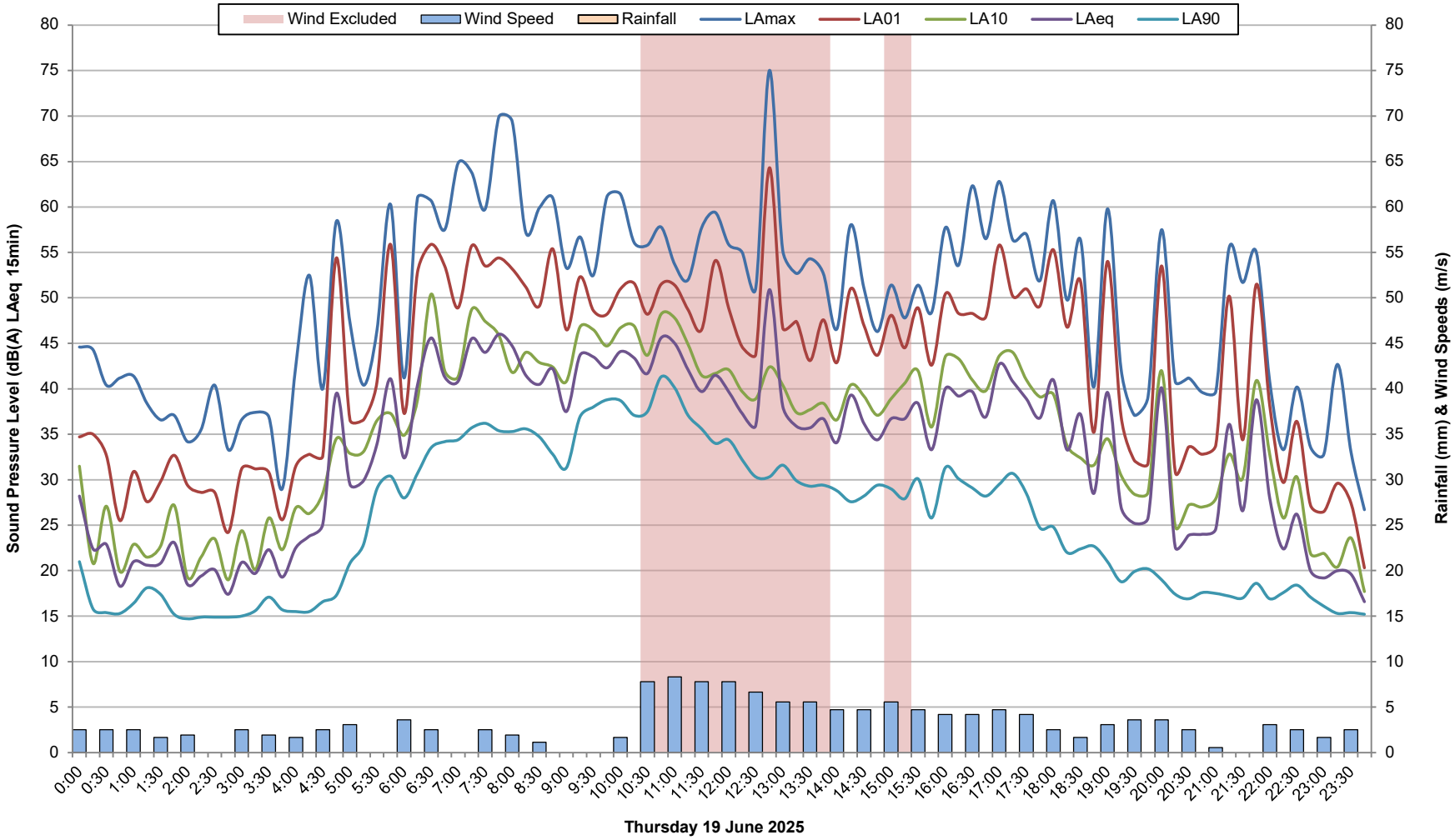
16-20 June 2025



Ambient Noise Survey

125 Kudo Silverleigh Road, GOOMBUNGEE

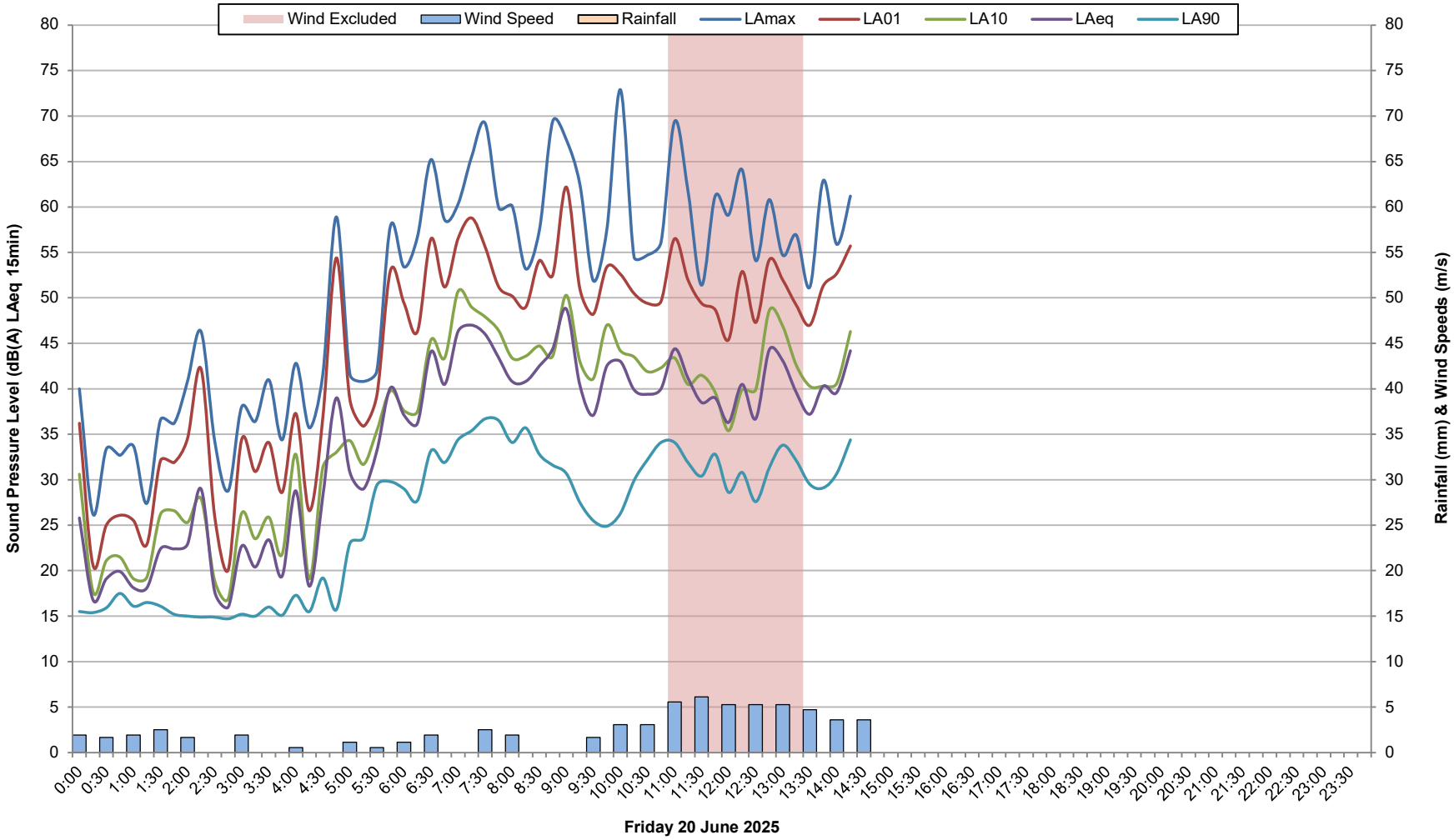
16-20 June 2025



Ambient Noise Survey

125 Kudo Silverleigh Road, GOOMBUNGEE

16-20 June 2025



Appendix D

SPL REDUCTION CALCULATIONS

LAeq Sound Power Level Reduction Calculations

Short Term & Fluctuating Noise

A-A Car Bypass @ 5km/hr 2 x 5 Instances Per Hour	**PERIOD**				**UNIT**
	DAY	**EVENING**	**NIGHT**	**TOTAL**	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	110	40	90	**240**	Events
Duration of individual event	180.000				Seconds
Total time duration of combined events	330.00	120.00	270.00		Minutes
Proportion of period with events occurring	50.0%	50.0%	50.0%		Percentage
Noise reduction amount	**-3.0**	**-3.0**	**-3.0**		**dB(A)**

A-B Car Starting 5 x Instances Per Hour	**PERIOD**				**UNIT**
	DAY	**EVENING**	**NIGHT**	**TOTAL**	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	55	20	45	**120**	Events
Duration of individual event	1.350				Seconds
Total time duration of combined events	1.24	0.45	1.01		Minutes
Proportion of period with events occurring	0%	0%	0%		Percentage
Noise reduction amount	**-27.3**	**-27.3**	**-27.3**		**dB(A)**

A-C Car Idling 2 x 5 Instances Per Hour	**PERIOD**				**UNIT**
	DAY	**EVENING**	**NIGHT**	**TOTAL**	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	110	40	90	**240**	Events
Duration of individual event	10.000				Seconds
Total time duration of combined events	18.33	6.67	15.00		Minutes
Proportion of period with events occurring	17%	3%	3%		Percentage
Noise reduction amount	**-15.6**	**-15.6**	**-15.6**		**dB(A)**

A-D Car Door Closure 2 x 5 Instances Per Hour	**PERIOD**				**UNIT**
	DAY	**EVENING**	**NIGHT**	**TOTAL**	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	110	40	90	**240**	Events
Duration of individual event	0.052				Seconds
Total time duration of combined events	0.095333333	0.034666667	0.078		Minutes
Proportion of period with events occurring	0%	0%	0%		Percentage
Noise reduction amount	**-38.4**	**-38.4**	**-38.4**		**dB(A)**

B Voice Conversation (Carpark) 3 x Instances Per Hour	**PERIOD**				**UNIT**
	DAY	**EVENING**	**NIGHT**	**TOTAL**	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	33	12	27	**72**	Events
Duration of individual event	900.000				Seconds
Total time duration of combined events	495	180	405		Minutes
Proportion of period with events occurring	75%	75%	75%		Percentage
Noise reduction amount	**-1.2**	**-1.2**	**-1.2**		**dB(A)**

LAeq Sound Power Level Reduction Calculations

Short Term & Fluctuating Noise

C - Refuse Service Tipping 2 x 1 Instance Per Week	PERIOD				UNIT
	DAY	EVENING	NIGHT	TOTAL	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	2	0	0	**2**	Events
Duration of individual event	60.000				Seconds
Total time duration of combined events	2	0	0		Minutes
Proportion of period with events occurring	0%	0%	0%		Percentage
Noise reduction amount	**-25.2**	**N/A**	**N/A**		**dB(A)**

D - Service Delivery 7 x Per Week	PERIOD				UNIT
	DAY	EVENING	NIGHT	TOTAL	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	7	0	0	**7**	Events
Duration of individual event	900.000				Seconds
Total time duration of combined events	105	0	0		Minutes
Proportion of period with events occurring	16%	0%	0%		Percentage
Noise reduction amount	**-8.0**	**N/A**	**N/A**		**dB(A)**

E - Collective Prayer 4 x Instance per Day	PERIOD				UNIT
	DAY	EVENING	NIGHT	TOTAL	
Total time duration of period	660	240	540		Minutes
Number of modelled events in period	2	1	1	**4**	Events
Duration of individual event	3600.000				Seconds
Total time duration of combined events	120	60	60		Minutes
Proportion of period with events occurring	18%	25%	11%		Percentage
Noise reduction amount	**-7.4**	**-6.0**	**-9.5**		**dB(A)**

Appendix E

SOUNDPLAN NOISE CONTOUR MODELLING RESULTS

Predicted Day Noise Levels

LAeq 15min

Noise Contours Without Mitigation

Model Run Date: 24/07/2025
Modeller: ADH
Client: Shriek Building Group
Job No: YEP2025052

125 Kudo Silverleigh Road
GOOMBUNGEE QLD 4354

Modelling Scenario Notes

Meteorological Conditions: N/A
Mitigation: Without
Hours of Operation: 24 hours a day

Legend

- Main Building
- Auxiliary Building
- Point Source
- Line Source
- Area Source

Levels in dB(A)

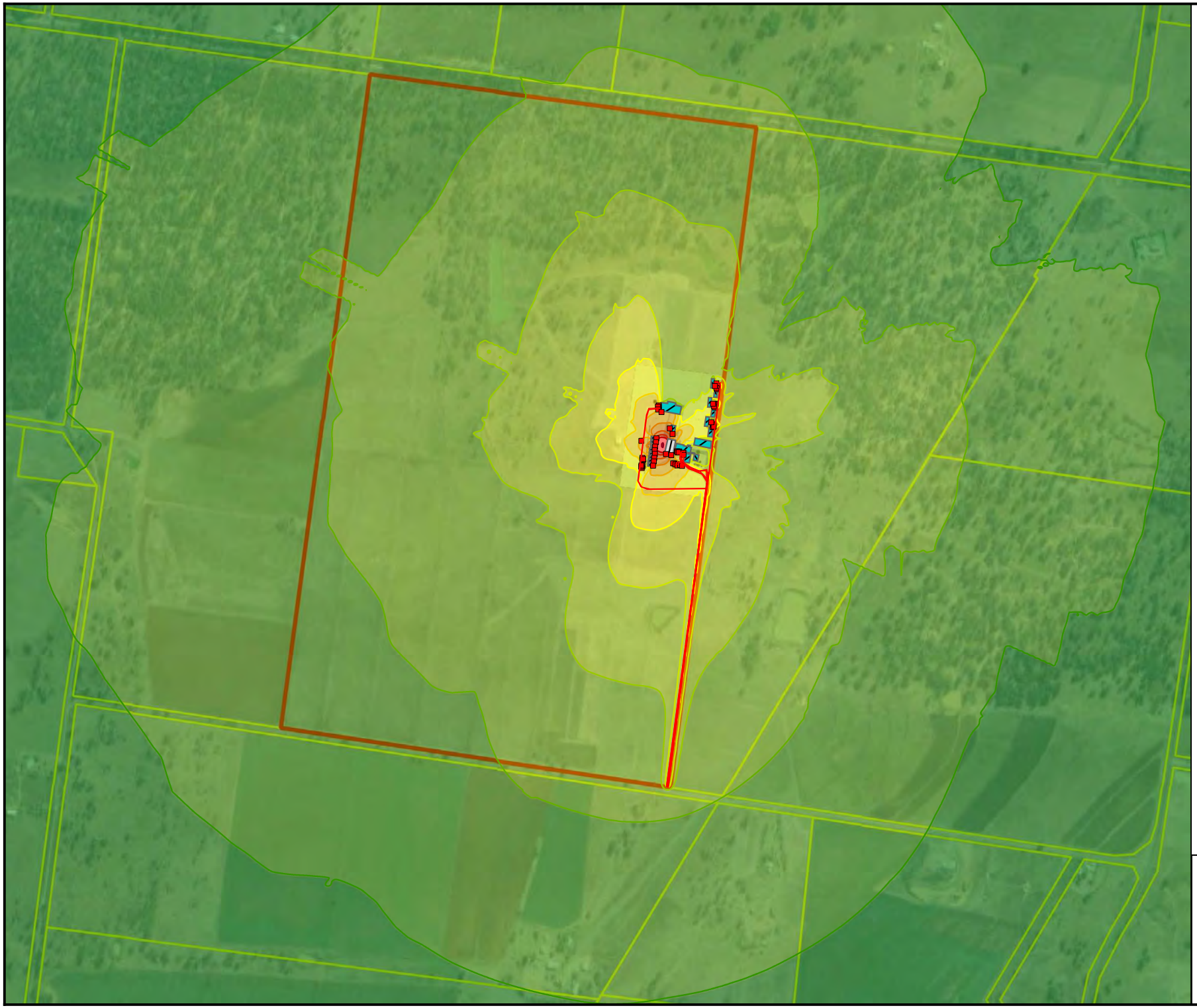
- < 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- >= 80

N

1 : 12500

0 50 100 200 300 400 m

yarramine environmental



Predicted Evening Noise Levels

LAeq 15min

Noise Contours Without Mitigation

Model Run Date: 24/07/2025
Modeller: ADH
Client: Shriek Building Group
Job No: YEP2025052

125 Kudo Silverleigh Road
GOOMBUNGEE QLD 4354

Modelling Scenario Notes

Meteorological Conditions: N/A
Mitigation: Without
Hours of Operation: 24 hours a day

Legend

- Main Building
- Auxiliary Building
- Point Source
- Line Source
- Area Source

Levels in dB(A)

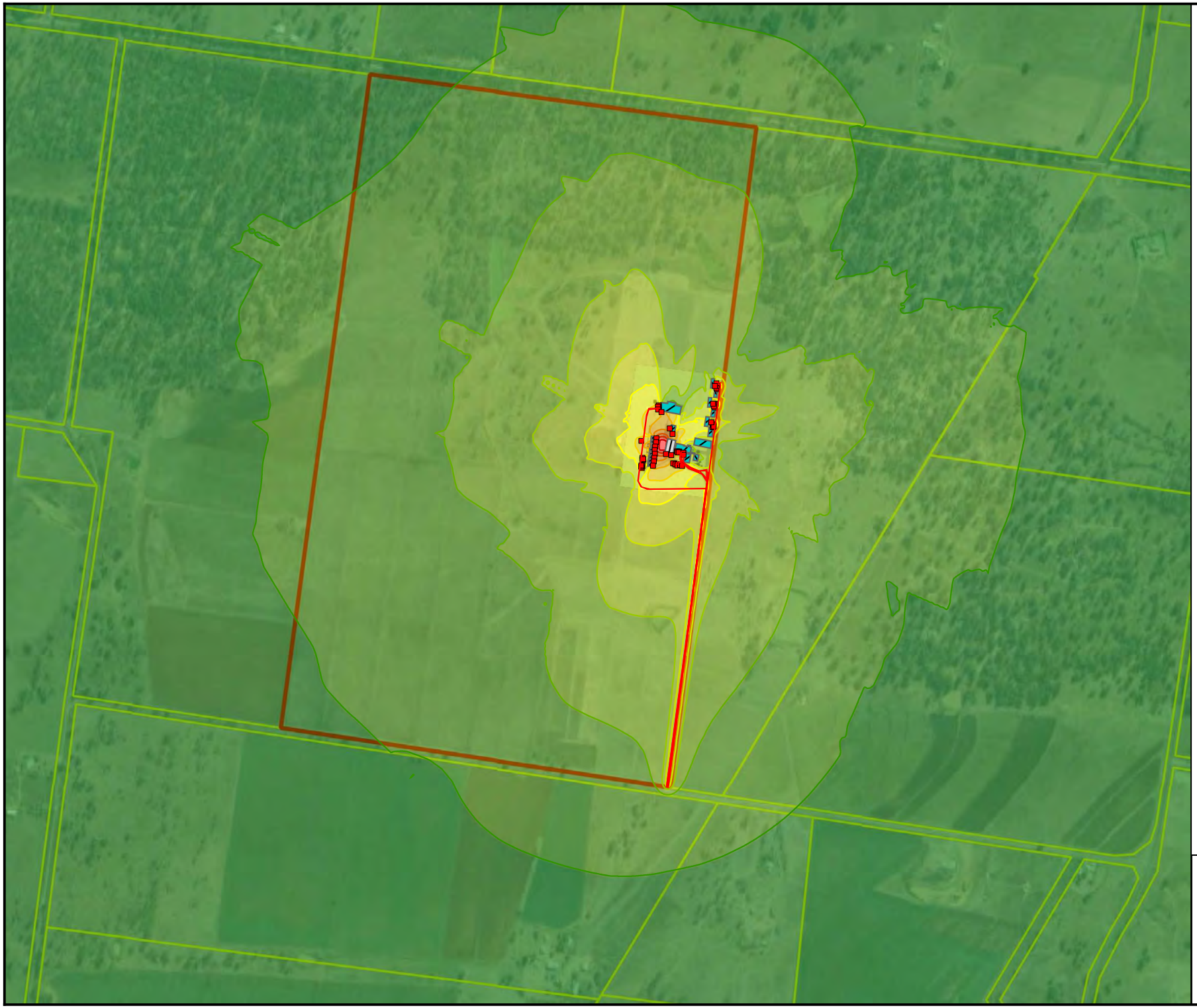
- < 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- >= 80

N

1 : 12500

0 50 100 200 300 400 m

yarramine environmental



Predicted Night Noise Levels

LAeq 15min

Noise Contours Without Mitigation

Model Run Date: 24/07/2025
Modeller: ADH
Client: Shriek Building Group
Job No: YEP2025052

125 Kudo Silverleigh Road
GOOMBUNGEE QLD 4354

Modelling Scenario Notes

Meteorological Conditions: N/A
Mitigation: Without
Hours of Operation: 24 hours a day

Legend

- Main Building
- Auxiliary Building
- Point Source
- Line Source
- Area Source

Levels in dB(A)

- < 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- >= 80

N

1 : 12500

0 50 100 200 300 400 m

yarramine environmental

Predicted Night Noise Levels

LAmax

Noise Contours Without Mitigation

Model Run Date: 24/07/2025
Modeller: ADH
Client: Shriek Building Group
Job No: YEP2025052

125 Kudo Silverleigh Road
GOOMBUNGEE QLD 4354

Modelling Scenario Notes

Meteorological Conditions: N/A
Mitigation: Without
Hours of Operation: 24 hours a day

Legend

- Main Building
- Auxiliary Building
- Point Source
- Line Source
- Area Source

Levels in dB(A)

< 24
24 - 29
29 - 34
34 - 39
39 - 44
44 - 49
49 - 54
54 - 59
59 - 64
64 - 69
69 - 74
74 - 79
79 - 84
84 - 89
89 - 94
>= 94

N

1 : 12500

0 50 100 200 300 400 m

yarramine environmental

Appendix F

ENDORSED NOISE MANAGEMENT PLAN

TOOWOOMBA REGION

Rich traditions. Bold ambitions.

Our Reference: MCUI/2017/6050
Contact Officer: Daniel Savill
Contact: 46886744
Email: development@tr.qld.gov.au

NOISE MANAGEMENT PLAN ENDORSEMENT
Planning Act 2016

Min-Chieh Wang
C/- Alpha Planning Applications (Andrew Hill)
PO Box 764
TOOWOOMBA QLD 4350

Email: andrew@alphaplanning.com.au

26 July 2018

Dear Sir/Madam

Location: **125 Kudo-Silverleigh Road, GOOMBUNGEE QLD 4354**
Property Description: **Lot 2 RP50559**
Relevant Planning Scheme: ***Toowoomba Regional Planning Scheme 2012***

The request for Endorsement of a Noise Management Plan has been assessed and approved on 26 July 2018. The following provides all the relevant details:

Details of Endorsement

Endorsement of Plans – Noise Management Plan

Approved Plans / Documents

The endorsed plans and/or documents are listed in the following table:

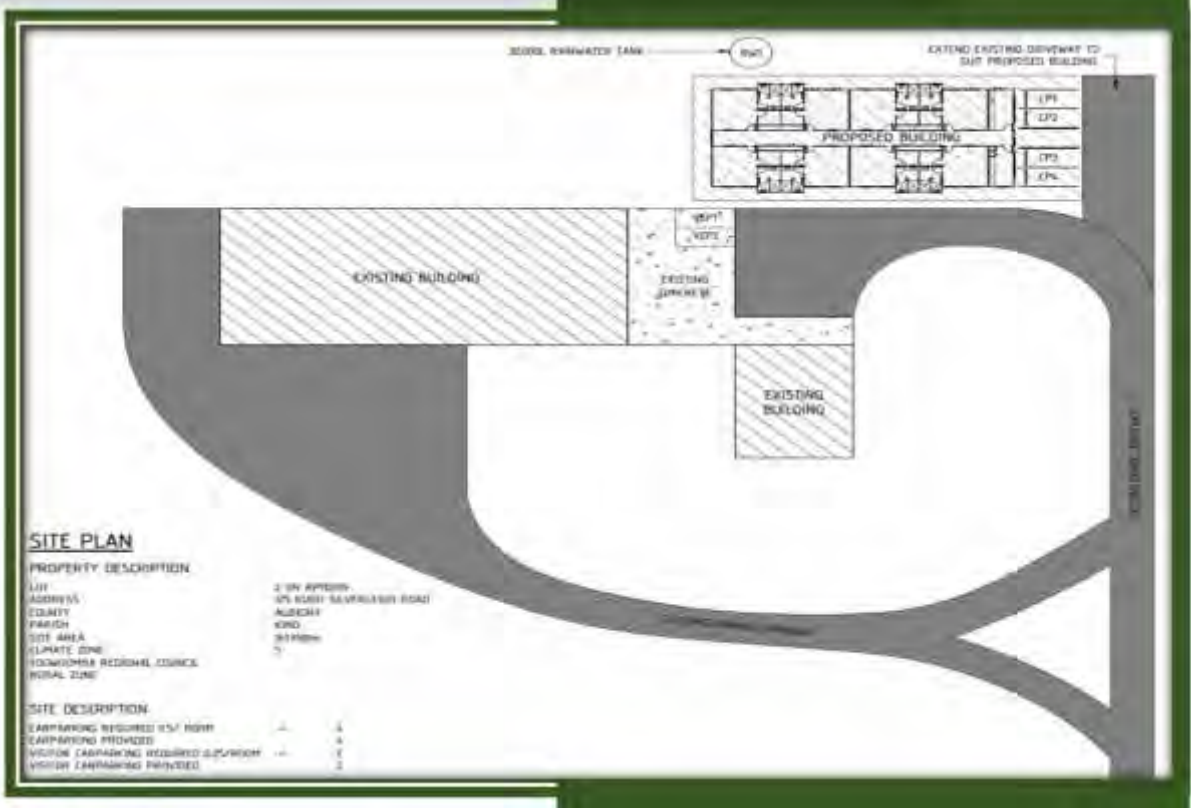
Plan/Document No.	Rev.	Plan / Document Name	Date
-	-	Rooming Accommodation (Monastery) Noise Mangement Plan & Complaints Register - 125 Kudo Silverleigh Road, Goombungee	23 July 2018

Advisory Notes

Yours faithfully

Daniel Savill
Senior Environmental Officer, Development Services

Rooming Accommodation (Monastery) Noise Management Plan & Complaints Register – 125 Kudo Silverleigh Road, Goombungee



TOOWOOMBA REGIONAL COUNCIL

APPROVED PLAN

referred to in Council's Decision Notice dated

5 March 2018

This plan is subject to conditions of Approval Number

MCUI/2017 /6 050

Assessment Manager

Rooming Accommodation (Monastery) Noise Management Plan and Complaints Register – prepared by Anna Lu – Environmental Officer – Alpha Planning Applications

Rooming Accommodation (Monastery) Noise Management Plan

Site

The Rooming Accommodation (Monastery) are located at 125 Kudo Silverleigh Road, Goombungee QLD 4354; described as Lot 2 on RP50559.

Approval

The Rooming Accommodation (Monastery) use was approved by Toowoomba Regional Council on 2 March 2018 via Development Approval MCUI/2017/6050.

Being a Material Change of Use for Rooming Accommodation (Monastery – 8 Bedrooms).

Noise Management Plan Desired Outcomes/Compliance Benchmarks

The Noise Management Plan seeks to achieve compliance with Council's conditions of approval, mitigate potential noise impacts upon nearby sensitive receptors and minimise the risk of noise complaints.

It is noted that 'resident' activities are the main potential noise nuisance sources. Other potential noise nuisance sources include the maintenance and cleaning of the use and vehicle movements to and from the site. However, it should be noted that the primary intent of the Rooming Accommodation use is for residents to attend and stay on site, for the 'quiet enjoyment' of the site through peaceful and quiet outdoor activities including meditation, reading and walking.

In accordance with Council's conditions of approval the Rooming Accommodation use must comply with the following:

1) *Service vehicle movements (including loading and unloading) associated with the approved use must not occur outside the hours of:*

   (a) 7am to 7pm Monday to Saturday; and
   (b) 9am to 7pm Sunday or any Public Holiday.

2) *No activity associated with the approved use must occur outdoors prior to 7am or after 5pm.*

3) *Noise from activity associated with the use of the site must not exceed the Acoustic Quality Objectives listed in the Environment Protection (Noise) Policy 2008 when measured at any sensitive receptor.*

4) *Where considered warranted by Council and when requested in writing to do so, a noise investigation must be undertaken to investigate a complaint of noise nuisance. In such instances, a suitably qualified person must monitor, interpret and record all parameters that are required to be monitored in order to determine whether or not the Noise Emission Limits listed within this Development Approval have been exceeded. The results of the investigation must be provided to Council within 28 days of the request or a longer period if specified in any such request. Measurement of noise emissions (adjusted for tonality and impulse) must be generally in accordance with the most recent version of Australian Standard AS1055.1 Acoustics - Description and measurement of environmental noise - General procedures.*

5) *All "refrigeration equipment", "pumps", "regulated devices", and "air conditioning equipment" as defined by the Environmental Protection Act 1994 must be designed, installed, operated and maintained to comply with the noise standards as specified within the Environmental Protection Act 1994.*

6) *Any fixed mechanical plant that causes either tonal (Leq) sound (e.g. from basement car-park or kitchen exhaust, air conditioning unit or pool filtration unit), or impulse (Lmax) sound, must be enclosed, shielded or positioned to ensure that noise emissions do not exceed the following noise limits when measured at any sensitive place or commercial place:*

   (a) Before 7.00AM, if it makes a noise of more than 3dB(A) above the background noise level (L90); or
   (b) From 7.00AM to 10.00PM, if it makes a noise of more than 5dB(A) above the background noise level (L90); or
   (c) After 10.00PM, if it makes a noise of more than 3dB(A) above the background noise level (L90).

7) *Prior to the issue of any Operational Works approval or Building Works approval, submit to Council for endorsement a Noise Management Plan prepared by a suitably qualified person that, at a minimum, includes the following:*

   (i) Descriptions of specific mitigation treatments, management methods and procedures that will be implemented to control noise during site activity and operations;

   (ii) Justification of any proposed activities outside the approved operating hours listed within this Development Approval or relevant licenses issued within the jurisdiction of any other authority;

   (iii) Procedures for notifying neighbouring residents of activities that is likely to affect their amenity through noise or vibration;

   (iv) A complaints management procedure that must include the following:
      (a) a contact person with whom complaints can be lodged;
      (b) a clearly defined procedure for responding to and investigating complaints; and
      (c) a notification protocol to all complainants of the outcome of complaint investigations.

8) *The endorsed Noise Management Plan must be implemented, maintained and modified where necessary to maintain compliance with the requirements of this Development Approval at all times.*

Measures to Achieve Desired Outcomes/Compliance Benchmarks

The desired outcomes/compliance benchmarks will be achieved via the following:

1. All activities associated with the cleaning and maintenance of the "Rooming Accommodation" use will only occur during the hours of 7am to 5pm.

2. Visitors to the site will be limited to between the hours of 7am and 5pm.

3. Guest arrival and departure times will be limited to between the hours of 7am and 5pm.

4. Outdoor Activities will be limited to between the hours of 7am and 5pm.

5. The Rooming Accommodation building's main entry/exit doors will be kept shut during the hours of 5pm to 7am.

6. At least one (1) responsible person/staff member will be on site at all times to monitor on-site activities, monitor guest behaviours and to receive and attend to any complaints received.

7. Any service vehicle must only visit the site between 7am and 5pm Monday to Saturday.

8. A Noise Complaints Register will be kept and maintained for inspection (as per attached).

9. A current Noise Complaints Contact Person/s List will be kept at the entry to the site for access/use by members of the public.

10. Upon receipt of a noise complaint the following actions must be taken in a timely manner:

    (i) The complaint and complainants details must be immediately registered in the complainants register;

    (ii) Immediate action must be taken to stop the offending noise;

    (iii) The actions taken to remedy the compliant must be logged in the noise compliant register – including the time and date the action/s were taken;

    (iv) The complainant must be contacted within 24 hours of their complaint to advise them of the actions taken to address the complaint and the actions that will be taken to avoid future nuisance/complaint; and

    (v) A strategy must be put into effect to avoid the same complaint from being made again in the future – this strategy shall be recorded in the noise complaints register.

11. All guests must be made aware of and be given a copy of this Noise Management Plan.

12. Any guest that does not comply with the Noise Management Plan and/or whose activities result in noise complaints from surrounding residents must be evicted from the site permanently.

13. No outdoor activities are to involve amplified music or the like.

14. Outdoor activities, other than solitary walking or meditation, are to be limited to between the hours of 7am to 5pm. Solitary walking or meditation can only occur between the hours of 4am and 10pm. This is to involve residents leaving the building and returning to the building alone; and therefore no noise resulting from residents communicating outside while walking to and from the building will occur.

15. Although unlikely to occur, neighbours will be notified 24 hours prior to any activity that may cause nuisance – and at same time will be provided with contact number of responsible person to call during the event if there are any issues.

125 Kudo-Silverleigh Road Rooming Accommodation (Monastery) Noise Complaints Contact Person/s List

The following person is to be contacted to make a complaint about the operation (noise levels) of the Rooming Accommodation (Monastery) use.

The nominated contact person will be available to be contacted by telephone on the contact number provided below during the dates & times listed in the left column below – including weekends and public holidays.

Date & Time Available	Contact Person	Contact Number

125 Kudo-Silverleigh Road Rooming Accommodation (Monastery) Noise Complaints Register

Date & Time of Complaint	Complainant's Details (eg. Name, Address, Contact Phone Number)	Nature of Complaint	Action Taken to Address Complaint	Date & Time Action Taken	Date & Time Complainant Advised of Action Taken	Follow Up/Further Actions to be Taken (including responsible person)
Example *8.50pm 25/12/18*	***Example*** *Hank Miller 25 Fantasy Road, Goombungee 0439 007 007*	***Example*** *5 People having conversation near eastern boundary line at 11pm at night and playing music on their Iphones.*	***Example*** *Manager addresses offending residents, reminds them of the rules for stying on-site and gives them formal warning that any further breach will result in eviction from site.*	***Example*** *9.00pm 25/12/18*	***Example*** *9.15pm 25/12/18*	***Example*** *Manager to ensure that future residents are given examples of infractions – including this specific event – when providing new residents with copy of Noise Management Plan.*

Yarramine Environmental
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CROWS NEST QLD 4355

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office@yarramine.com.au

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