

# GATEWAY UPGRADE NORTH

Post Construction  
Road Traffic Noise and Vibration Monitoring report

Prepared for:

Jacobs SMEC Design Joint Venture  
Level 2, 32 Cordelia Street  
SOUTH BRISBANE QLD 4101

SLR Ref: 620.11007-R03  
Version No: -v1.1  
February 2020



## PREPARED BY

SLR Consulting Australia Pty Ltd  
ABN 29 001 584 612  
Level 2, 15 Astor Terrace  
Spring Hill QLD 4000 Australia  
(PO Box 26 Spring Hill QLD 4004 Australia)  
T: +61 7 3858 4800  
E: brisbane@slrconsulting.com www.slrconsulting.com

## BASIS OF REPORT

This report has been prepared by SLR Consulting Australia Pty Ltd (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Jacobs SMEC Design Joint Venture (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

## DOCUMENT CONTROL

Reference	Date	Prepared	Checked	Authorised
620.11007-R03-v1.1	13 February 2020		N/R	
620.11007-R03-v1.0	6 September 2019		N/R	

## CONTENTS

<b>1</b>	<b>INTRODUCTION.....</b>	<b>4</b>
<b>2</b>	<b>TMR CRITERIA .....</b>	<b>6</b>
2.1	Road Traffic Noise.....	6
2.2	Road Traffic Vibration.....	6
<b>3</b>	<b>MONITORING METHODOLOGY .....</b>	<b>7</b>
3.1	Monitoring locations.....	7
3.2	Noise Monitoring .....	8
3.3	Vibration Monitoring .....	8
<b>4</b>	<b>POST CONSTRUCTION YEAR 2019 ROAD TRAFFIC NOISE MONITORING RESULTS ....</b>	<b>10</b>
<b>5</b>	<b>ASSESSMENT OF YEAR 2028 ROAD TRAFFIC NOISE .....</b>	<b>13</b>
<b>6</b>	<b>POST CONSTRUCTION VIBRATION RESULTS.....</b>	<b>14</b>
<b>7</b>	<b>CONCLUSION.....</b>	<b>15</b>

## TABLES

Table 1	TMR's CoP Vol 1 Noise Criteria for New and Upgraded Roads .....	6
Table 2	Human Comfort Vibration Goals .....	6
Table 3	Monitoring locations .....	7
Table 4	Vibration Monitoring Equipment Summary.....	9
Table 5	Summary of Façade Corrected Year 2019 Road Traffic Noise Measurement Results .....	11
Table 6	Traffic Data Analysis .....	13
Table 7	Design Year 2028 GUN Road Traffic Noise Levels .....	14
Table 8	GUN Operational Vibration Monitoring Results Summary .....	14

## FIGURES

Figure 1	Site diagram .....	5
----------	--------------------	---

## APPENDICES

Appendix A	Road Traffic Noise and Vibration Monitoring Location Figures
Appendix B	Noise Monitoring Results Sheets
Appendix C	Year 2028 GUN Road Traffic Noise Contour Maps
Appendix D	Vibration Monitoring Results Charts

## 1 Introduction

SLR Consulting Pty Ltd (SLR) was contracted by the Jacobs SMEC Design Joint Venture (DJV) to undertake post construction road traffic noise and vibration monitoring for the Gateway Upgrade North (GUN) Project between Nudgee and Bald Hills. The locality of the GUN study area and the 2019 road traffic noise and vibration monitoring locations are shown in **Figure 1**.

The purpose of the current study was to assess the extent of compliance of GUN against the road traffic noise criteria set out in the Department of Transport and Main Roads (TMR) Transport Noise Management *Code of Practice Volume 1* (CoP Vol 1) for the period within 12 months from the start of the maintenance period (ie construction completion dated of 5 March 2019).

Road traffic noise from GUN has been assessed in terms of compliance with the criteria prescribed in the CoP Vol 1 for the design Year 2028 and the noise attenuation measures required to achieve compliance. To gain an insight into what road traffic noise levels from GUN are likely to be in Year 2028 it is possible to measure road traffic noise levels from the project at any stage after construction and “project” the noise levels to the Year 2028 by simply analysing the difference between traffic volumes during the measurement with the predicted Year 2028 traffic volumes. For example, if traffic volumes doubled from the measurement year to the design Year 2028 and the percentage of heavy vehicles remain consistent, the measured road traffic noise level would be 3 dB higher in the design year as a result of the additional vehicles.

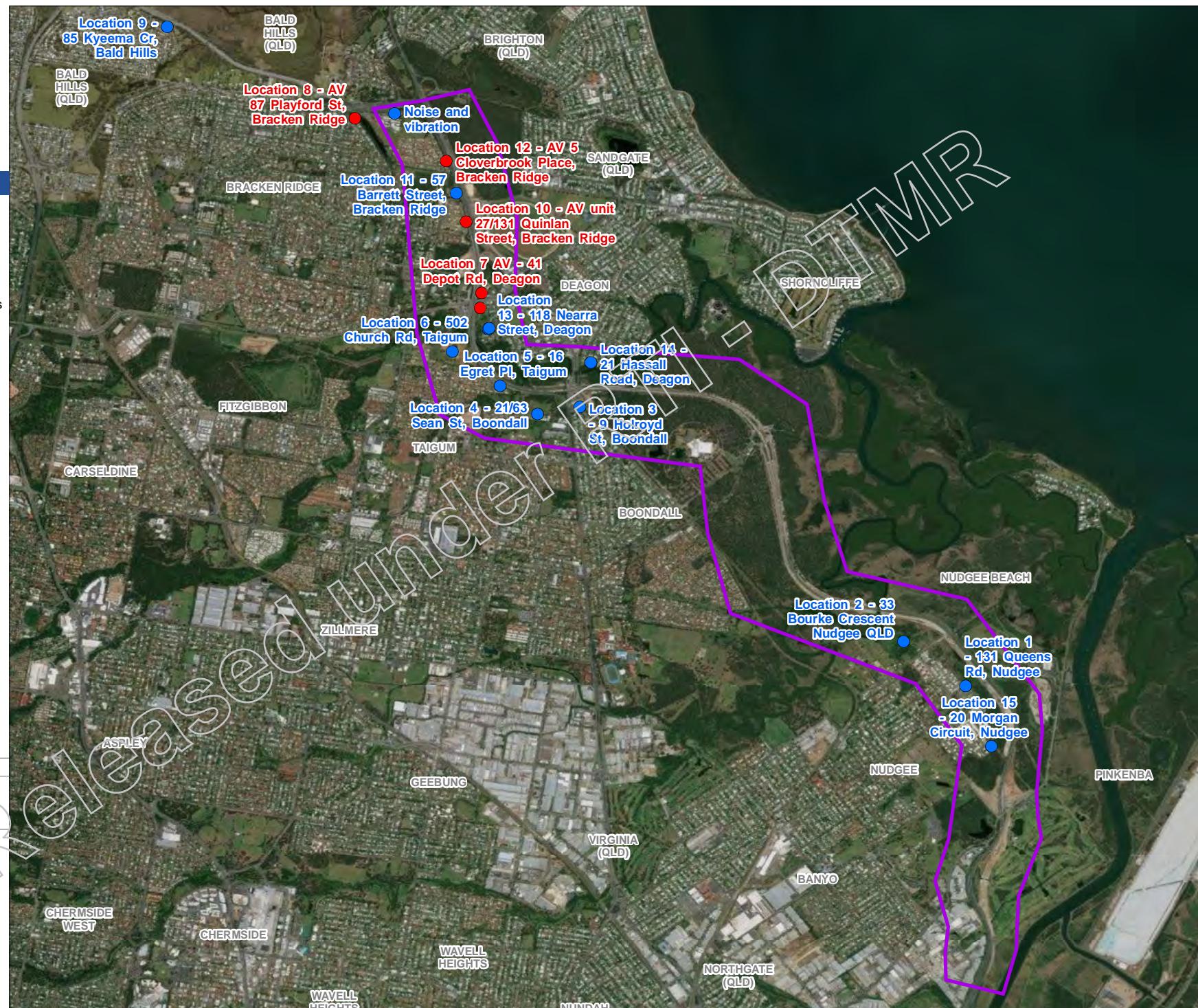
The following report provides an outline of the measurement methodology and findings of the post construction road traffic noise and vibration study for the GUN Project.

# Gateway Motorway Upgrade North

SLR Noise and Vibration Assessment Area

FIGURE 1

- 2015 SLR Noise Assessment Area
- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations



Project No.: 620.110077  
Date: Tue 02-Jul-2019  
Drawn by: N/R  
Sheet Size:



Projection: GCS WGS 1984  
Scale: 1:50,000

0 1 km

## 2 TMR Criteria

### 2.1 Road Traffic Noise

Noise generated by road traffic on GUN is to be assessed against the noise criteria outlined in the CoP Vol 1. The CoP Vol 1 road traffic noise criteria relevant to the GUN Project are summarised in **Table 1**.

**Table 1 TMR's CoP Vol 1 Noise Criteria for New and Upgraded Roads**

Description	Noise Descriptor	Criteria
Existing residences – upgrading existing roads	LA10(18hour) <sup>1</sup> external	68 dBA
Educational, community and health buildings – upgrading existing roads	Maximum LA10(1hour) <sup>2</sup> external	65 dBA

Note 1: Arithmetic average of the 18 hourly LA10 levels over the consecutive hours from 6:00 am to midnight.

Note 2: Maximum 1 hour LA10 level during normal operating hours of the facility.

In relation to the criteria in **Table 1** the following is noted:

- The external noise criteria assessment location is 1 m in front of the most exposed facade of the “noise sensitive” building.
- All roads assessed for the study area have been classified as upgraded existing roads in accordance with the CoP Vol 1.
- An ‘upgraded existing road’ includes a substantial upgrading such as duplication or additional through lanes within some portion of the existing road corridor. Some additional lanes may fall outside the existing road corridor where land acquisition is required. An ‘upgraded road’ assessment includes the entire upgraded road corridor, including any ‘new road’ segments.

### 2.2 Road Traffic Vibration

CoP Vol 1 does not prescribe criteria or provide any guidance with regards to assessing impacts associated with road traffic vibration.

TMR's Transport Noise Management *Code of Practice: Volume 2 – Construction Noise and Vibration* (CoP Vol 2) does however prescribe criteria for the assessment of construction vibration inclusive of construction traffic. In lieu of specific road traffic vibration criteria, SLR has adopted the vibration goals for residential and education receptors based on the lower limit human comfort levels from the CoP Vol 2 which it notes are generally regarded as being just perceptible. The CoP Vol 2 human comfort vibration goals are detailed in **Table 2**.

**Table 2 Human Comfort Vibration Goals**

Building	Time Period	Peak Particle Velocity Vibration Goal mm/s
Dwellings (including hotels and motels)	All <sup>1</sup>	0.3
Educational facilities	While in use	0.3
Community buildings (places of worship)	While in use	0.3 <sup>2</sup>

Note 1: This assessment has adopted the limiting evening and night-time period human comfort goal of 0.3 mm/s for all time periods including the daytime period. SLR notes that the CoP Vol 2 prescribes a daytime lower limit of 1.0 mm/s for temporary construction vibration however this is not considered acceptable for permanent road traffic vibration.

Note 2: SLR notes that the CoP Vol 2 prescribes a lower limit of 1.0 mm/s from temporary construction vibration however this is not considered acceptable for permanent road traffic vibration within places of worship.

## 3 Monitoring Methodology

### 3.1 Monitoring locations

In order to characterise the post construction noise and vibration environment within the study area, noise monitoring was conducted at 17 locations within the study area with vibration monitoring also completed at four (4) of the 17 noise monitoring locations. These locations are detailed in **Table 3** and displayed in **Appendix A**.

**Table 3 Monitoring locations**

ID	Address	Land Use	Microphone Position	Noise/vibration	Monitoring Period
1	131 Queens Rd, Nudgee	Residential	Façade Corrected	Noise	8/05/2019 - 16/05/2019
2	33 Bourke Crescent Nudgee	Residential	Façade Corrected	Noise	9/05/2019 to 16/05/2019
3	9 Holroyd St, Boondall	Residential	Façade Corrected	Noise	8/05/2019 to 16/05/2019
4	21/63 Sean St, Boondall	Residential	Free Field	Noise	9/05/2019 to 16/05/2019
5	16 Egret Place, Taigum	Residential	Façade Corrected	Noise	9/05/2019 to 16/05/2019
6	502 Church Road, Taigum	Residential	Façade Corrected	Noise	16/05/2019 to 22/05/2019
7	41 Depot Road, Deagon	Residential	Façade Corrected	Noise/vibration	8/05/2019 to 16/05/2019
8	87 Playford Street, Bracken Ridge	Residential	Façade Corrected	Noise/vibration	8/05/2019 to 14/05/2019
9	85 Kyeema Crescent, Bald Hills	Residential	Façade Corrected	Noise	17/05/2019 to 21/05/2019
10	24/131 Quinlan Street, Bracken Ridge	Residential	Façade Corrected	Noise	8/05/2019 to 16/05/2019
11	57 Barrett Street, Bracken Ridge	Residential	Free Field	Noise	9/05/2019 to 16/05/2019
12	5 Cloverbrook Place, Bracken Ridge	Residential	Façade Corrected	Noise/vibration	8/05/2019 to 16/05/2019
13	118 Nearra Street, Deagon	Residential	Façade Corrected	Noise	8/05/2019 to 16/05/2019
14	21 Hassall Road, Deagon	Residential	Free Field	Noise	10/05/2019 to 17/05/2019
15	20 Morgan Circuit, Nudgee	Residential	Free Field	Noise	8/05/2019 to 16/05/2019
16	26 Depot Road, Deagon	Residential	Free Field	Noise/vibration	10/05/2019 to 17/05/2019
17	27 John Fisher Drive, Bracken Ridge	Educational	Façade Corrected	Noise/vibration	8/05/2019 to 16/05/2019

The monitoring locations were chosen based upon several factors including:

- Where possible, conducting measurements at the same locations used in the preconstruction noise model verification purposes,
- Each monitoring location was chosen as being representative of the areas adjacent to the subject road within the study area,

- The microphones being positioned on the receptor building facade most exposed to road traffic noise from the dominant subject road,
- Road traffic noise being the dominant continuous noise source at the monitoring locations.
- Selection of actual monitoring positions was ultimately decided in the field, taking into account all relevant circumstances including availability of a secure location for the noise logger and avoidance of extraneous noise sources (eg domestic animals, residential air-conditioning units, etc).

### 3.2 Noise Monitoring

Noise monitoring was undertaken in general accordance with the CoP Vol 1 which stipulated the following requirements:

- All noise loggers were programmed to store a variety of noise indices including L<sub>Amin</sub>, L<sub>A90</sub>, L<sub>Aeq</sub>, L<sub>A10</sub>, L<sub>A1</sub> and L<sub>Amax</sub> on a continuous basis at hourly period intervals. At each monitoring location noise logging was carried out over a minimum seven (7) day period within the survey period of Wednesday 8 May 2019 to Wednesday 22 May 2019. The measurements were undertaken using Acoustic Research Laboratories Type Ngara Environmental Noise Loggers programmed to record various statistical noise levels over consecutive one-hour intervals.
- At each monitoring location SLR personnel undertook 15 minute attended noise measurements and observations. Acoustically significant noise events were recorded on data sheets during this period.
- All deployed noise loggers had audio recording enabled, with the audio files for each site available for post-processing to determine extraneous noise events or one-third octave frequency analysis upon request.
- The noise monitoring equipment was checked for calibration before and after the noise survey with a B&K Sound Level Calibrator. A post-measurement calibration tone was applied to the noise loggers and no significant drift was detected (i.e. within  $\pm 0.5$  dBA). All measurements were conducted using the 'A weighting' filter and 'fast' response. All items of acoustic instrumentation employed during the noise monitoring surveys were designed to comply with AS IEC 61672.2-2004 "Electroacoustics-Sound level meters—Specifications" and carry current manufacturer calibration certificates.
- No significant extraneous noise sources were identified as interfering with the road traffic noise data.
- Weather data was collected using a Davis Vue portable weather station installed at 118 Nearra Street, Deagon during the entire noise monitoring period. As shown in the road traffic noise monitoring results summary sheets (refer to **Appendix B**) meteorological conditions including wind speeds and rainfall did not exceed the CoP Vol 1 acceptable limits for more than 2 continuous hours or more than 3 non-continuous hours during a 24-hour period.

### 3.3 Vibration Monitoring

The vibration monitoring methodology was developed with guidance from CoP Vol 2 noting that the CoP Vol 1 does not provide guidance with regards to the measurement of road traffic vibration.

Vibration levels were measured on the external structure of the buildings to determine any quantifiable existing vibration within each site. Vibration levels were continuously measured using Instantel Minimate vibration monitors with external triaxial geophones. The triaxial geophone measured vibrations in three orthogonal axes; two perpendicular horizontal planes front to back (X), right to left (Y) and the vertical plane (Z).

Each vibration logger was set-up as follows:

- The minimum monitoring period was seven (7) days.
- The geophones were rigidly attached to the base of the receptor buildings (where applicable) using a metal base plate and a non-destructive epoxy adhesive.
- Each vibration logger was set up with to measure peak particle velocity (PPV) vibration levels continuously at 1-minute intervals.

The vibration monitoring equipment utilised during the surveys are listed in **Table 4**.

**Table 4 Vibration Monitoring Equipment Summary**

InstanTel Unit	Calibration Due Date	InstanTel Geophone	Calibration Due Date
Minimate BE12061	February 2020	Tri-axial Geophone BG18808	May 2021
Minimate BE17410	September 2019	Tri-axial Geophone BG18696	May 2019
Minimate BE16018	May 2021	Tri-axial Geophone BG11565	July 2019
Minimate BE16073	May 2020	Tri-axial Geophone BG18690	May 2020
Minimate BE19698	September 2019	Tri-axial Geophone BG12597	July 2019

## 4 Post Construction Year 2019 Road Traffic Noise Monitoring Results

The unattended noise measurement results (presented in full in **Appendix B**) were used to determine the existing (i.e. GUN opening Year 2019) LA<sub>10(18hour)</sub> road traffic noise levels along the GUN study area. A summary of the measured road traffic noise levels, in terms of the average of the daily LA<sub>10(18hour)</sub> road traffic noise levels, are presented in **Table 5** together with a summary of the SLR operator's observations whilst on site conducting the attended noise measurement.

With reference to SLR report *Gateway Upgrade North - Road and Rail Traffic Noise Assessment Design Report* (GUN-3-SL-PNS-200001 Rev.E), assessment of GUN road traffic noise was limited to the section of the Gateway Motorway between Nudgee and the Deagon Deviation (up to John Fischer College at 27 John Fisher Drive, Bracken Ridge). The location and height of noise barrier at John Fischer College are prescribed by TMR in Item 10 Table 5.1 of the Scope of Works and Technical Criteria (SWTC) Appendix 5 of the contract.

The project works completed within the section of Gateway Motorway between John Fischer College and Wyampa Road Overpass were part of Gateway Asset Safety (GAS) works that were limited to pavement rehabilitations and construction of noise barriers at John Fischer College. Hence, noise attenuation design for road traffic noise generated on the Gateway Motorway (north of John Fischer College) was excluded from the GUN project scope of works. Notwithstanding this, SLR carried out noise monitoring at two (2) locations within the GAS project extents (i.e. Location IDs 8 and 9) and the results of these measurements are also presented in **Table 5** for completeness.

**Table 5 Summary of Façade Corrected Year 2019 Road Traffic Noise Measurement Results**

ID	Monitoring Location	CoP Road Traffic Noise Criteria (dBA)	Average Year 2019 Post Construction Road Traffic Noise Monitoring Result (dBA) <sup>1</sup>	Operator Attended Notes
1	131 Queens Road, Nudgee	68 LA10(18hr)	65	Primary noise source was GUN road traffic noise with intermittent insect (cicada) noise
2	33 Bourke Crescent Nudgee	68 LA10(18hr)	57 <sup>2</sup>	Primary noise source was GUN road traffic noise with intermittent bird song
3	9 Holroyd Street, Boondall	68 LA10(18hr)	62	Primary noise source was local road traffic noise with intermittent bird song, North Boondall train station PA system and train passby.
4	21/63 Sean St, Boondall	68 LA10(18hr)	61 <sup>3</sup>	Primary noise source was GUN road traffic noise with intermittent bird song, residents wind charm, and wind passing through trees.
5	16 Egret Place, Taigum	68 LA10(18hr)	61	Primary noise source was GUN road traffic noise with intermittent heavy vehicle noise, bird song and wind passing through trees
6	502 Church Road, Taigum	68 LA10(18hr)	60	Primary noise source was GUN road traffic noise with insect noise, and wind passing through trees.
7	41 Depot Road, Deagon	68 LA10(18hr)	66	Primary noise source was road traffic noise on GUN and Depot Road, with intermittent heavy vehicle noise and wind passing through trees
8	87 Playford Street, Bracken Ridge	68 LA10(18hr)	61	Primary noise source was road traffic noise on GUN and Bracken Ridge Road, with intermittent heavy vehicle noise and dogs barking
9	85 Kyeema Crescent, Bald Hills	68 LA10(18hr)	68 <sup>4</sup>	Dominant noise source was GUN road traffic noise and intermittent bird song
10	24/131 Quinlan Street, Bracken Ridge	68 LA10(18hr)	60	GUN road traffic noise only, including heavy vehicle braking and motor cycle noise
11	57 Barrett Street, Bracken Ridge	68 LA10(18hr)	65 <sup>3</sup>	Primary noise source was GUN road traffic noise including intermittent heavy vehicle noise and insect (cicada) noise.
12	5 Cloverbrook Place, Bracken Ridge	68 LA10(18hr)	61	Primary noise source was GUN road traffic noise
13	118 Nearra Street, Deagon	68 LA10(18hr)	61	Primary noise source was GUN road traffic noise, intermittent heavy vehicle noise, bird song and dogs barking

ID	Monitoring Location	CoP Road Traffic Noise Criteria (dBA)	Average Year 2019 Post Construction Road Traffic Noise Monitoring Result (dBA) <sup>1</sup>	Operator Attended Notes
14	21 Hassall Road, Deagon	68 LA10(18hr)	58	Primary noise source was GUN road traffic noise, intermittent heavy vehicle noise, insects, bird song and wind passing through trees. There was also a worker pulling down a fence.
15	20 Morgan Circuit, Nudgee	68 LA10(18hr)	57	GUN road traffic noise only, including heavy vehicle braking and motor cycle noise
16	26 Depot Road, Deagon	68 LA10(18hr)	66	Primary noise source was GUN and Depot Road traffic noise, intermittent heavy vehicle noise, bird song and very light rain (road wet)
17	27 John Fisher Drive, Bracken Ridge	65 LA10(1hr)	65	Primary noise source was GUN road traffic noise including intermittent heavy vehicle noise.

Note 1: Facade measurements unless otherwise noted.

Note 2: Additional site undertaken by SLR (new development).

Note 3: Free-field measurement including (+2.5 dB) façade correction.

Note 4: Noise measurements outside of SLR's noise assessment project extents.

## 5 Assessment of Year 2028 Road Traffic Noise

As discussed in **Section 1**, GUN road traffic noise mitigation has been designed on the basis of Year 2028 predicted traffic volumes (ie 10 years after construction). In order to assess compliance of the Year 2019 measured road traffic noise levels against the design Year 2028 criteria, a simple Calculation of Road Traffic Noise (UK Department of Transport 1998) (CORTN) model was developed to quantify the increase in road traffic noise level to Year 2028.

CORTN modelling typically incorporates inputs such as traffic volume and mix, road surface types, vehicle speed, road gradient, ground absorption and shielding from topography and physical noise barriers, however, for the purpose of this assessment, the model was developed on the assumption that only traffic volumes and compositions (ie percentage of light and heavy vehicles) will change between 2019 and 2028.

Traffic data from the Gateway Motorway weight in motion (WIM) site at Nudgee recorded during the noise monitoring campaign was provided by TMR. Analysis of the measured Year 2019 AADT and the SWTC Appendix 14 - Design Information Attachment 14.A Traffic data used to predict design Year 2028 GUN road traffic noise levels is presented in **Table 6**.

**Table 6 Traffic Data Analysis**

Road Segment	Year 2019 Measured Data <sup>1</sup>		Year 2018 SWTC Data <sup>2</sup>		Year 2028 SWTC Data <sup>2</sup>	
	AADT	% Heavy Vehicles	AADT	% Heavy Vehicles	AADT	% Heavy Vehicles
U13C Gateway Motorway	90,241	13	76,870	13	143,800	16

Note 1: Recorded from Nudgee WIM site.

Note 2: Data from SWTC Table 14.A.1 for the section of Gateway Motorway between Bicentennial Road and Nudgee Road.

Based on the traffic data presented in **Table 6** and assuming equal growth in traffic between Year 2019 and 2028 (i.e. approximately 5.2% compound annual growth), Year 2019 measured GUN road traffic noise levels are projected to increase by 2.4 dB by the design Year 2028. The projected Year 2028 GUN road traffic noise levels are summarised in **Table 7** together with the model predicted GUN road traffic noise levels for Year 2028 for comparison for the monitoring locations located within the GUN project extents.

The results in **Table 7** indicate that the projected Year 2028 GUN road traffic noise levels comply with the applicable CoP Vol 1 criterion with the exception of St John Fisher College (27 John Fisher Drive, Bracken Ridge). As indicated in **Table 7**, exceedance of the CoP Vol 1 criterion at St John Fisher College was predicted and addressed in SLR Report GUN-3-SL-PNS-200001 Rev.E and therefore no further consideration to noise mitigation for the St John Fisher College was required as part of this study.

GUN road traffic noise level contour maps from SLR Report GUN-3-SL-PNS-200001 Rev.E that are relevant to this study are reproduced in **Appendix C**. On the basis of the findings of this post construction road traffic noise survey, the predicted Year 2028 road traffic noise level contour maps are still valid.

**Table 7 Design Year 2028 GUN Road Traffic Noise Levels**

Receptor	Noise Criteria (dBA)	Year 2028 Model Predicted GUN Road Traffic Noise Levels (dBA) with Noise Barriers	Year 2028 Projected GUN Road Traffic Noise Levels (dBA) As-constructed <sup>1</sup>
131 Queens Road, Nudgee	68 LA10(18r)	68	68
33 Bourke Crescent Nudgee	68 LA10(18hr)	- <sup>2</sup>	60
9 Holroyd Street, Boondall	68 LA10(18hr)	66	65
21/63 Sean St, Boondall	68 LA10(18r)	64	64
16 Egret Place, Taigum	68 LA10(18hr)	67	63
502 Church Road, Taigum	68 LA10(18hr)	64	62
41 Depot Road, Deagon	68 LA10(18r)	67	68
24/131 Quinlan Street, Bracken Ridge	68 LA10(18r)	67	63
57 Barrett Street, Bracken Ridge	68 LA10(18hr)	68	67
5 Cloverbrook Place, Bracken Ridge	68 LA10(18hr)	66	64
118 Nearra Street, Deagon	68 LA10(18r)	66	64
21 Hassall Road, Deagon	68 LA10(18hr)	60	61
20 Morgan Circuit, Nudgee	68 LA10(18hr)	58	60
26 Depot Road, Deagon	68 LA10(18hr)	67	68
27 John Fisher Drive, Bracken Ridge	65 LA10(1hr)	67	68

Note 1: Projected from the Year 2019 road traffic noise measurement results.

Note 2: Receptor outside of SLR's noise assessment project extents.

## 6 Post Construction Vibration Results

A summary of the results from the operational vibration monitoring carried out by SLR between Wednesday 8 and Thursday 16 May 2019 is presented in **Table 8**. The presented maximum PPV levels exclude extraneous vibration events such as accidental human contact with the transducer or rain falling on the transducer.

Daily vibration monitoring results charts for each location are provided in **Appendix D**.

**Table 8 GUN Operational Vibration Monitoring Results Summary**

Monitoring Location	PPV Vibration Limit (mm/s)	Maximum PPV (mm/s)
26 Depot Rd, Deagon	0.3 <sup>1</sup>	<0.3
41 Depot Rd, Deagon	0.3 <sup>1</sup>	<0.3
5 Cloverbrook Pl, Bracken Ridge	0.3 <sup>1</sup>	<0.3
87 Playford St, Bracken Ridge	0.3 <sup>1</sup>	<0.3
St John Fisher College, Bracken Ridge	0.3 when in use	<0.3

Note 1: Vibration limit based on BS 5228-2:2009 night-time human comfort limit.

As indicated in **Table 8**, all PPV vibration levels measured at the five locations along GUN were below the 0.3 mm/s limit for the GUN project.

## 7 Conclusion

A road traffic noise monitoring program for the GUN Project has been undertaken by SLR in accordance with the requirements of TMR's CoP Vol 1. The purpose of the monitoring was to assess the extent of compliance of the GUN Project against the relevant road traffic noise criteria stipulated in the CoP Vol 1.

An assessment of Year 2019 traffic data recorded during the noise monitoring campaign and the design Year 2028 model predicted traffic data (as stipulated in the SWTC), allowed for projections to be made to the measured 2019 road traffic noise levels. The traffic data analysis identified a 2.4 dB increase from Year 2019 measured road traffic noise levels to the GUN Project design Year 2028, assuming consistent annual traffic growth over the 10 year period.

The assessment indicated that projected Year 2028 GUN road traffic noise levels comply with the applicable CoP Vol 1 criterion with the exception of St John Fisher College (27 John Fisher Drive, Bracken Ridge). The exceedance of the CoP Vol 1 criterion at St John Fisher College was previously predicted and addressed in SLR Report GUN-3-SL-PNS-200001 Rev.E and therefore no further consideration to noise mitigation for the St John Fisher College was required as part of this study.

The result of the vibration monitoring assessment confirmed that operational road traffic vibration levels measured at sensitive receptor locations were compliant with the CoP Vol 2 human comfort vibration goals.

## **APPENDIX A**

### Road Traffic Noise and Vibration Monitoring Location Figures

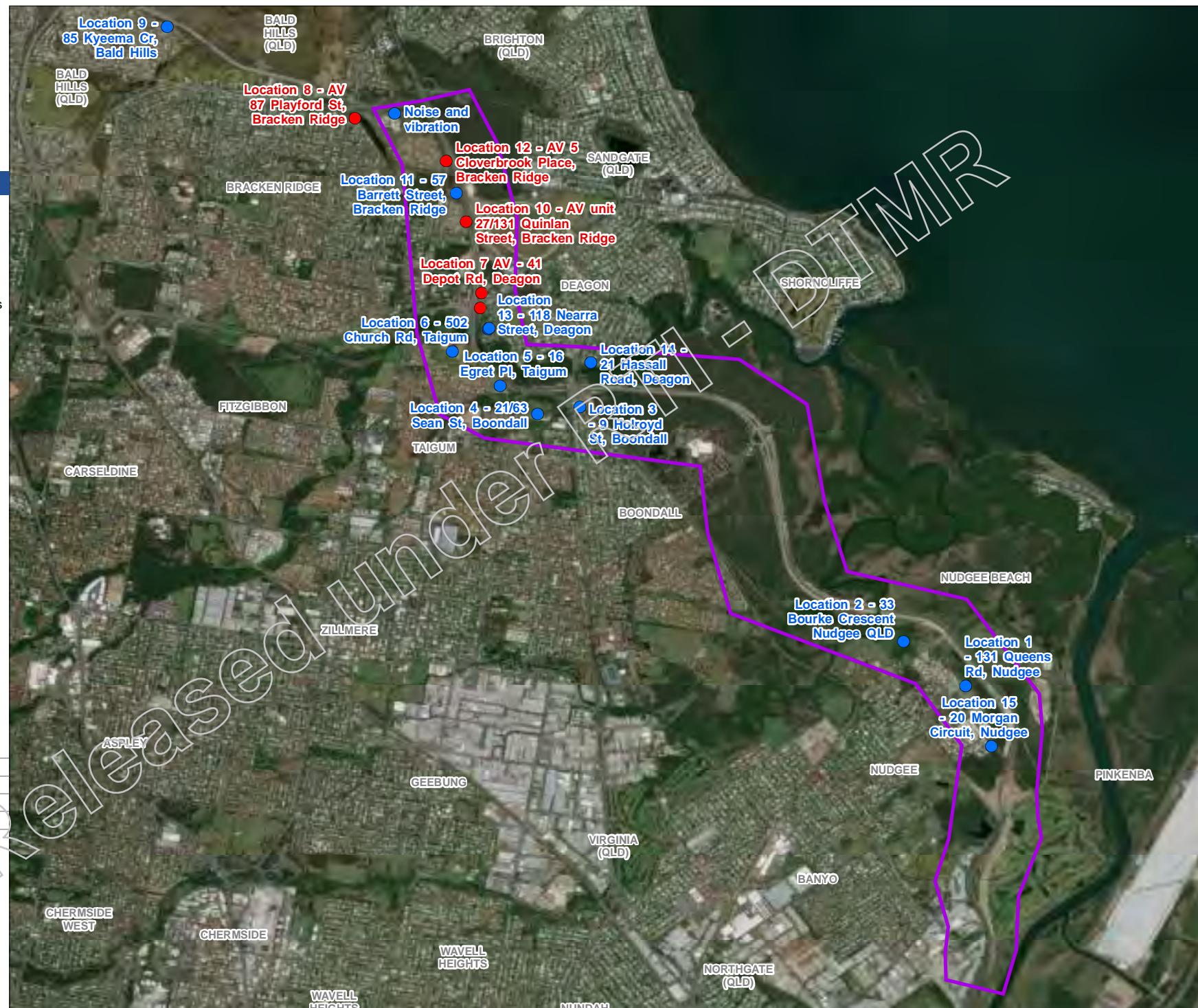
Released under RTI - DTMVR

# Gateway Motorway Upgrade North

SLR Noise and Vibration Assessment Area

FIGURE 1

- 2015 SLR Noise Assessment Area
- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations



Project No.: 620.110077  
Date: Tue 02-Jul-2019  
Drawn by: N/R  
Sheet Size:



www.slrconsulting.com



Projection: GCS WGS 1984  
Scale: 1:50,000

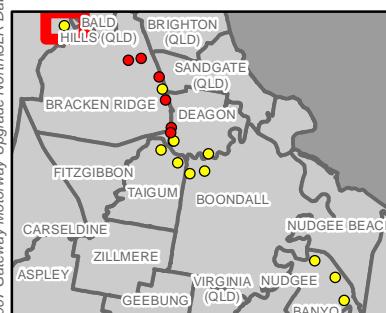
0 1 km

# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

FIGURE 2

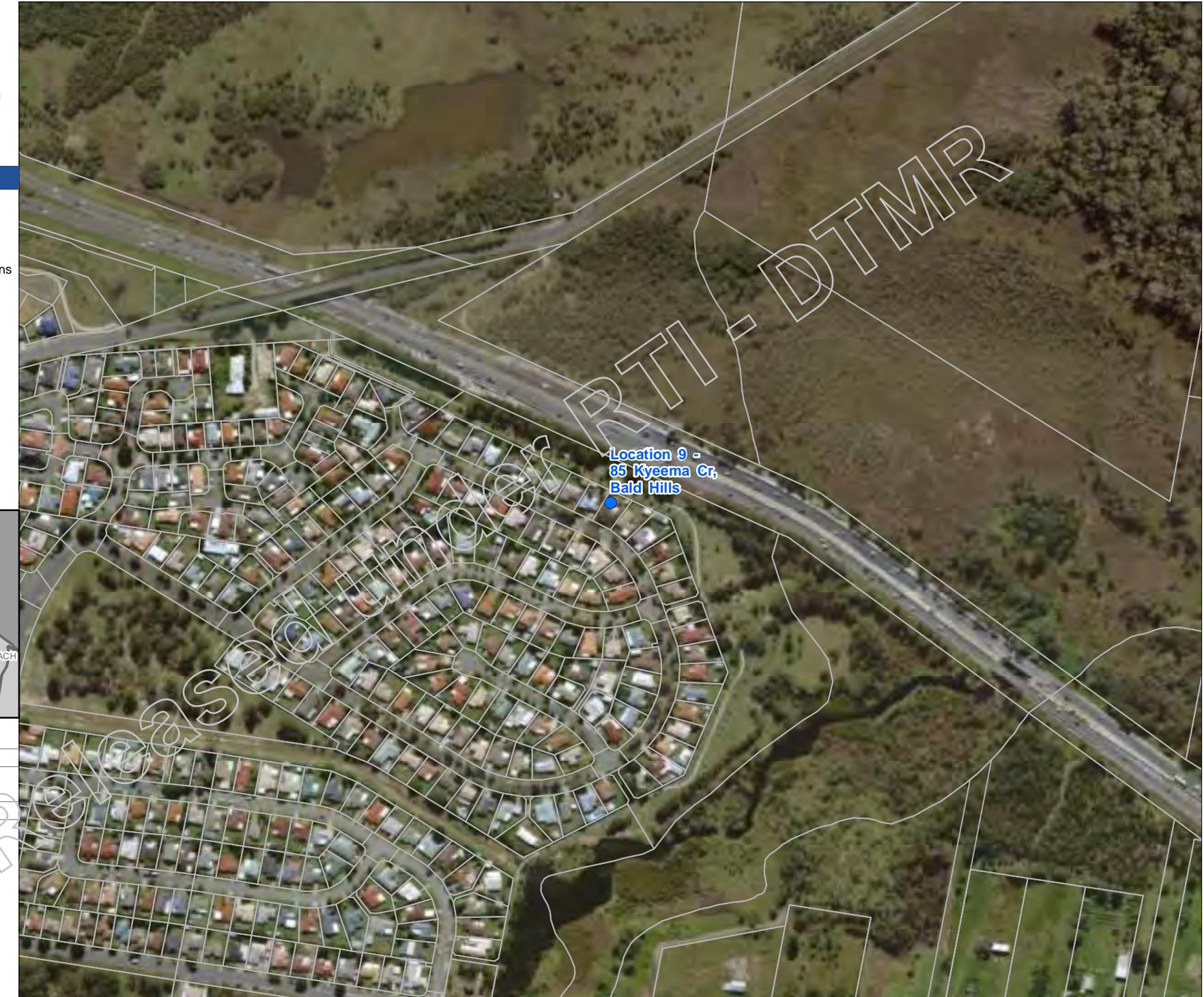
- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077  
Date: Tue 02-Jul-2019  
Drawn by: N/R  
Sheet Size:



Projection: GCS WGS 1984  
Scale: 1:5,000  
0 100 m

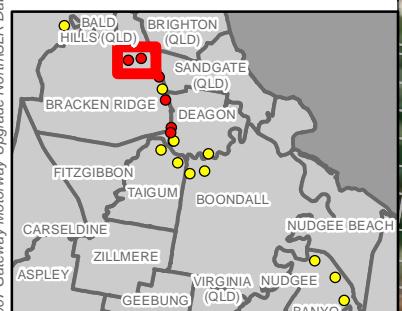


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

**FIGURE 3**

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077  
Date: Tue 02-Jul-2019  
Drawn by: N/R  
Sheet Size:



www.slrconsulting.com



Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m

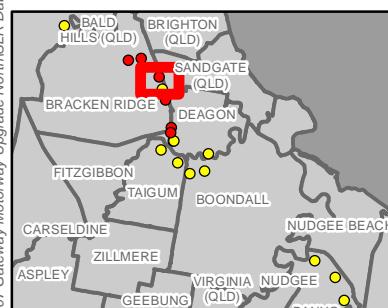


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

FIGURE 4

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre

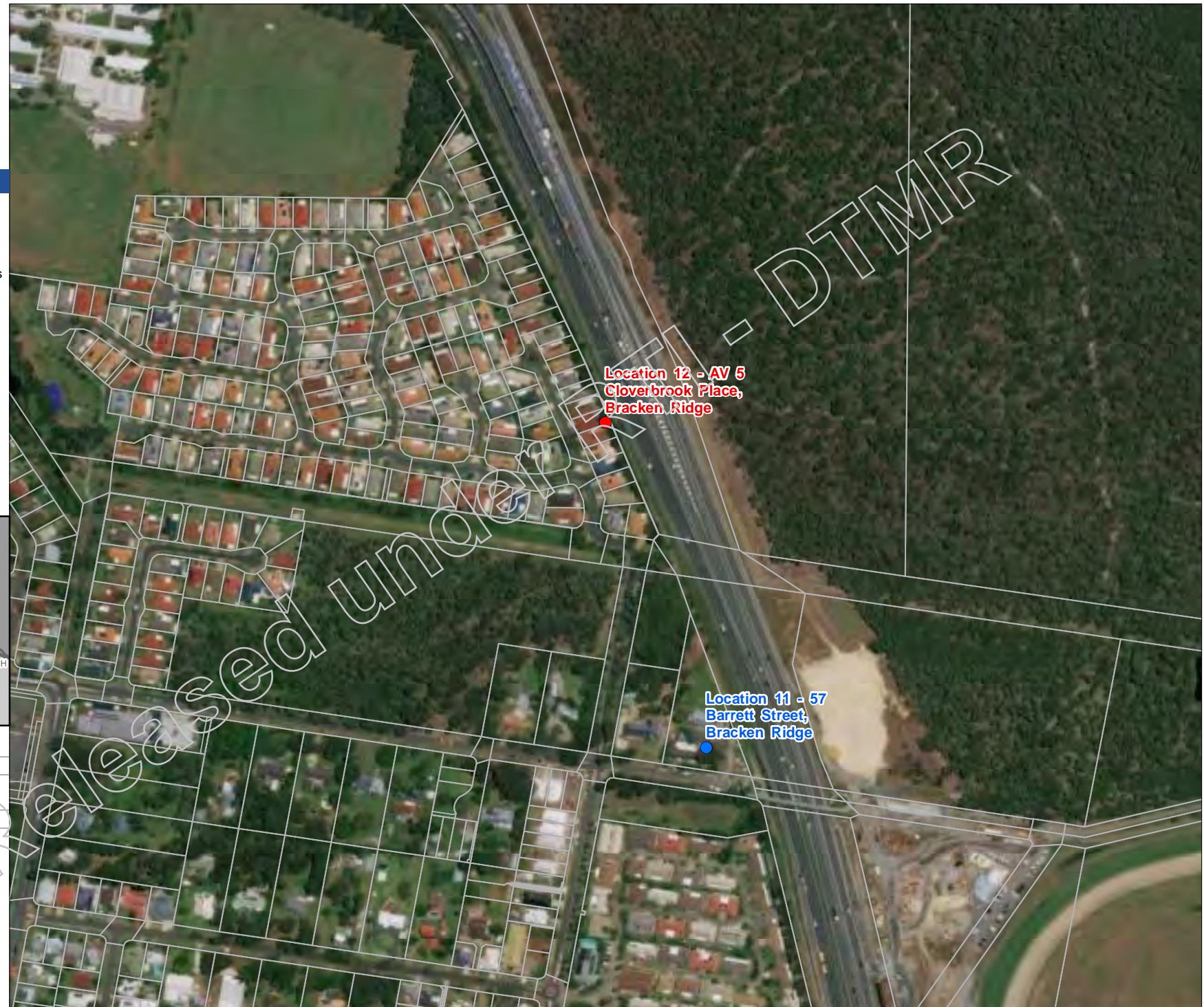


Project No.: 620.110077  
Date: Tue 02-Jul-2019  
Drawn by: N/R  
Sheet Size:



Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m

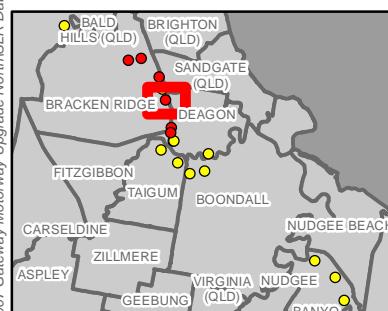


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

**FIGURE 5**

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077

Date: Tue 02-Jul-2019

Drawn by: N/R

Sheet Size:



Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m

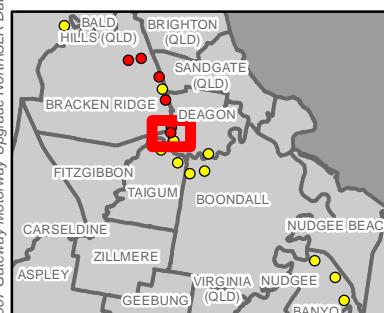


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

**FIGURE 6**

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077

Date: Tue 02-Jul-2019

Drawn by: N/R

Sheet Size:

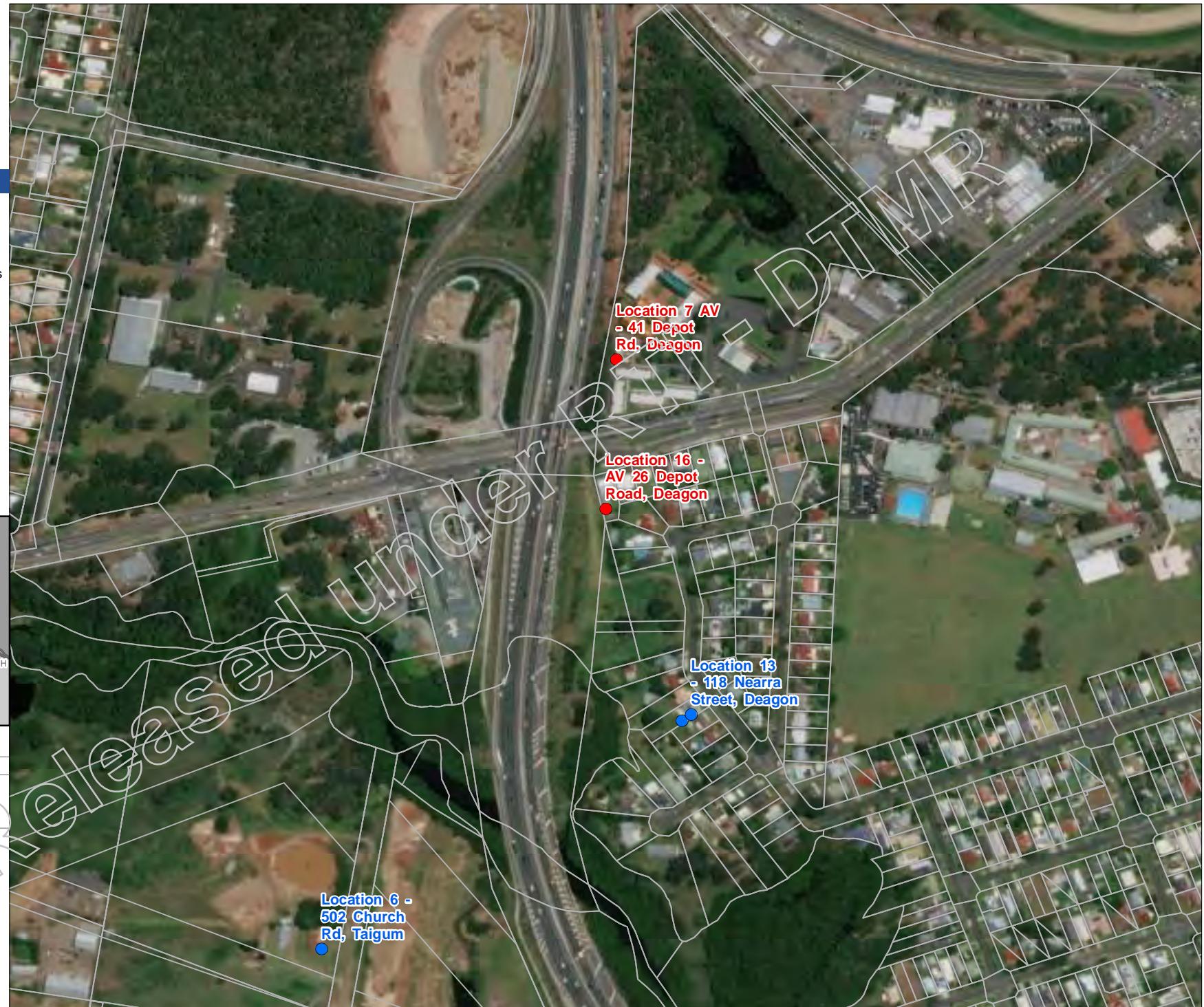


www.slrconsulting.com



Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m

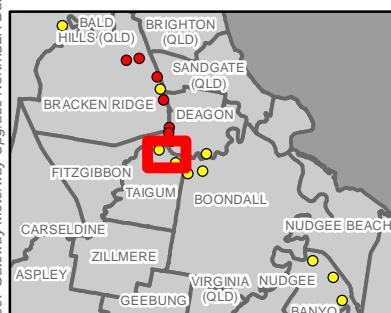


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

FIGURE 7

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077  
Date: Tue 02-Jul-2019  
Drawn by: N/R  
Sheet Size:



[www.slrconsulting.com](http://www.slrconsulting.com)

Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m

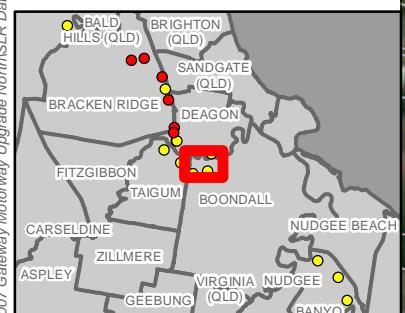


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

**FIGURE 8**

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077

Date: Tue 02-Jul-2019

Drawn by: N/R

Sheet Size:

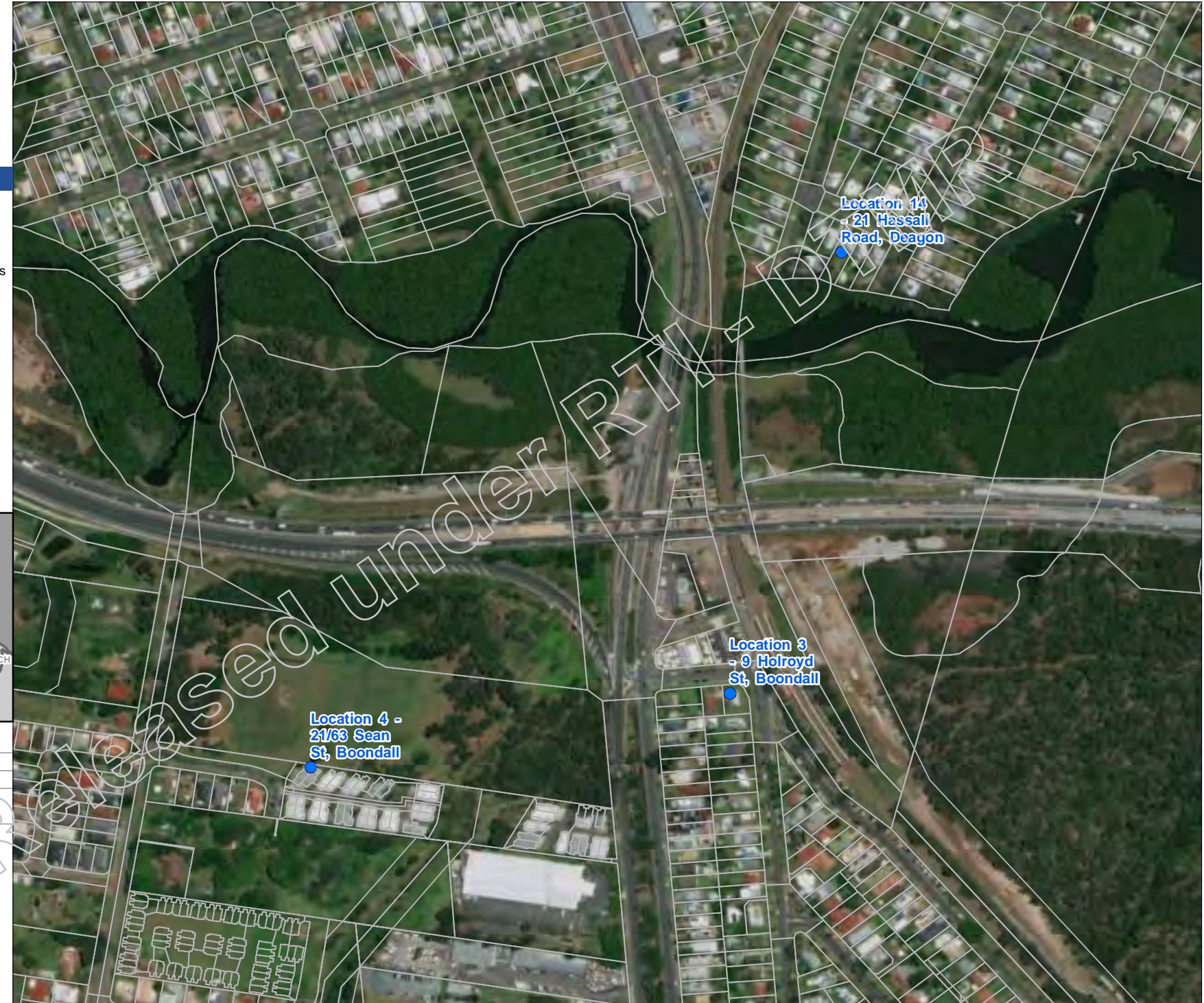


[www.slrconsulting.com](http://www.slrconsulting.com)



Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m

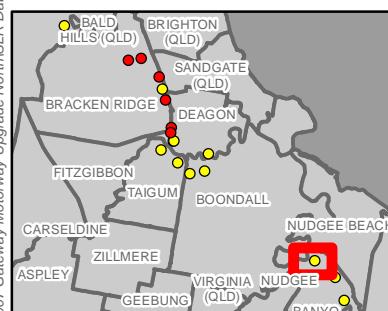


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

FIGURE 10

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077  
Date: Tue 02-Jul-2019  
Drawn by: N/R  
Sheet Size:



[www.slrconsulting.com](http://www.slrconsulting.com)



Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m

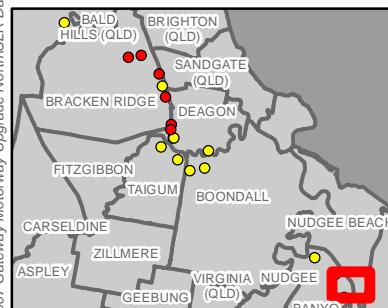


# GATEWAY MOTORWAY UPGRADE NORTH

2019 SLR Noise and Vibration  
Monitoring Locations

FIGURE 11

- 2019 SLR noise and vibration monitoring locations
- 2019 SLR noise monitoring locations
- Cadastre



Project No.: 620.110077

Date: Tue 02-Jul-2019

Drawn by: N/R

Sheet Size:



[www.slrconsulting.com](http://www.slrconsulting.com)



Projection: GCS WGS 1984  
Scale: 1:5,000

0 100 m



## **APPENDIX B**

### Road Traffic Noise Monitoring Results

Released under RTI - DTMVR

# Site 1 - 131 Queens Road, Nudgee

The noise measurement data at 131 Queens Road NUDGE was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 13.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

**Table 13: Measured road traffic noise levels at 131 Queens Road NUDGE 4014**

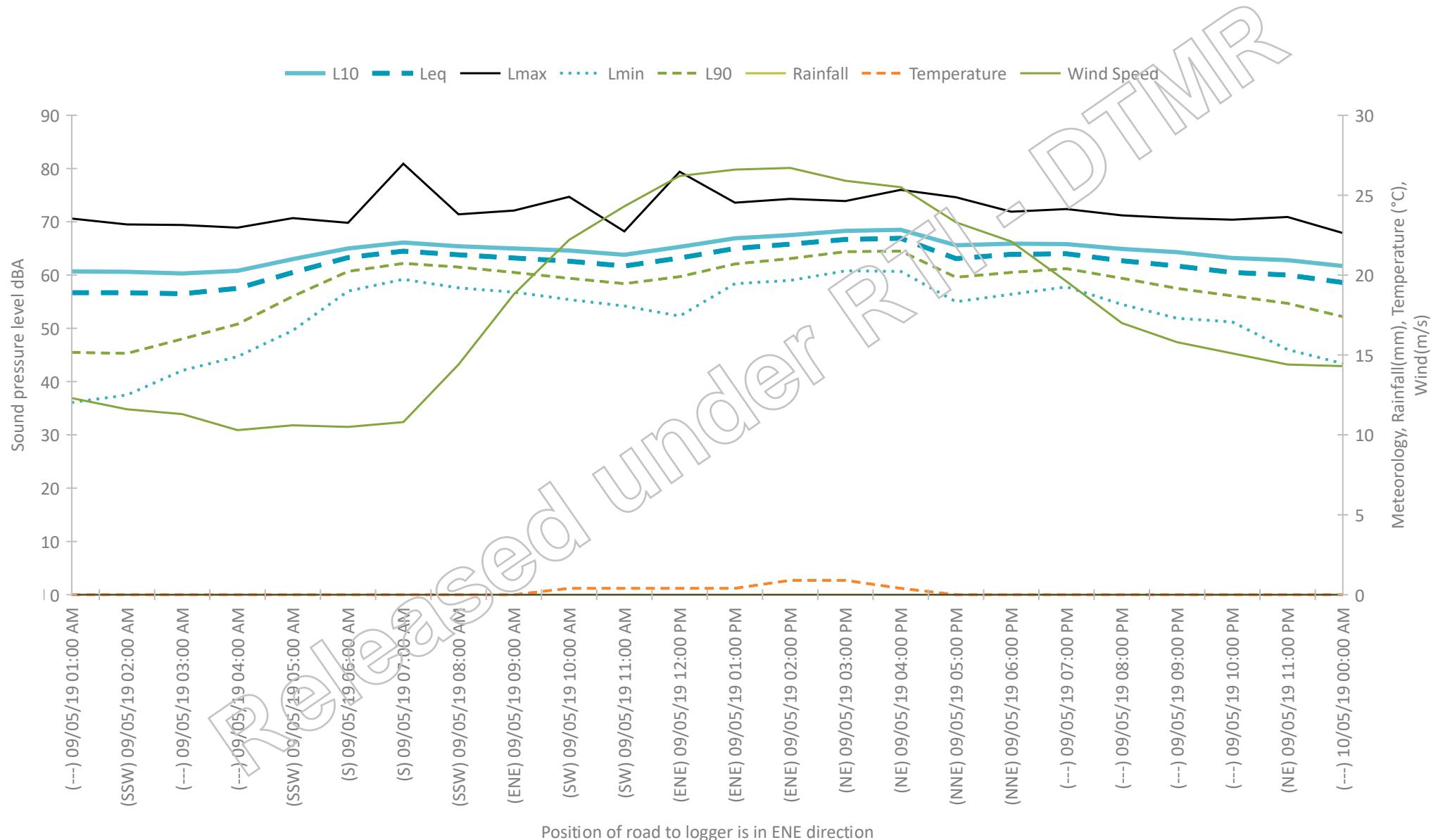
Facade corrected LA10 (18hr) dBA	
Thursday 09/05/19	65.3
Friday 10/05/19	64.8
Monday 13/05/19	65.5
Tuesday 14/05/19	64.6
Wednesday 15/05/19	65.5

The level results were consistent with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	131 Queens Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>65.3</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	63.0 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	64.8 dBA	
State Road	Gateway Motorway	Distance	172 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	66.1 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	53.4 dBA	
Instrument serial no	8781B1	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.6 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 66.8 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	56.7	70.6	64.7	60.7	53.7	45.5	36.1	0.0	12.3	---	0.0
Thu 09/05/19	2:00	56.7	69.5	65.6	60.6	52.9	45.3	37.5	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	56.5	69.4	64.5	60.3	53.9	48.0	42.1	0.0	11.3	---	0.0
Thu 09/05/19	4:00	57.5	68.9	64.4	60.8	55.8	50.8	44.7	0.0	10.3	---	0.0
Thu 09/05/19	5:00	60.5	70.7	65.5	63.0	59.8	56.0	49.6	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	63.3	69.8	66.8	65.0	62.9	60.7	57.0	0.0	10.5	S	0.0
Thu 09/05/19	7:00	64.5	80.9	67.9	66.1	64.0	62.2	59.2	0.0	10.8	S	0.0
Thu 09/05/19	8:00	63.8	71.4	67.1	65.4	63.4	61.5	57.6	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	63.2	72.1	66.9	65.0	62.7	60.5	56.8	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	62.6	74.7	66.8	64.6	62.0	59.4	55.4	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	61.7	68.2	66.0	63.8	61.1	58.4	54.2	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	63.2	79.4	67.6	65.3	62.5	59.7	52.3	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	65.0	73.6	68.9	66.9	64.5	62.1	58.4	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	65.8	74.3	69.7	67.5	65.4	63.1	59.0	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	66.7	73.9	70.2	68.3	66.3	64.4	60.8	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	66.9	76.0	70.4	68.5	66.4	64.5	60.7	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	63.1	74.6	68.1	65.6	62.2	59.6	55.0	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	63.9	71.9	67.8	65.9	63.4	60.5	56.4	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	64.0	72.4	67.7	65.8	63.5	61.2	57.8	0.0	19.6	---	0.0
Thu 09/05/19	20:00	62.7	71.2	67.4	64.9	62.0	59.4	54.5	0.0	17.0	---	0.0
Thu 09/05/19	21:00	61.7	70.7	67.0	64.3	60.6	57.5	51.9	0.0	15.8	---	0.0
Thu 09/05/19	22:00	60.5	70.4	66.2	63.2	59.4	56.1	51.2	0.0	15.1	---	0.0
Thu 09/05/19	23:00	60.0	70.9	65.9	62.8	58.8	54.7	46.0	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	58.6	67.9	65.0	61.7	57.1	52.2	43.4	0.0	14.3	---	0.0

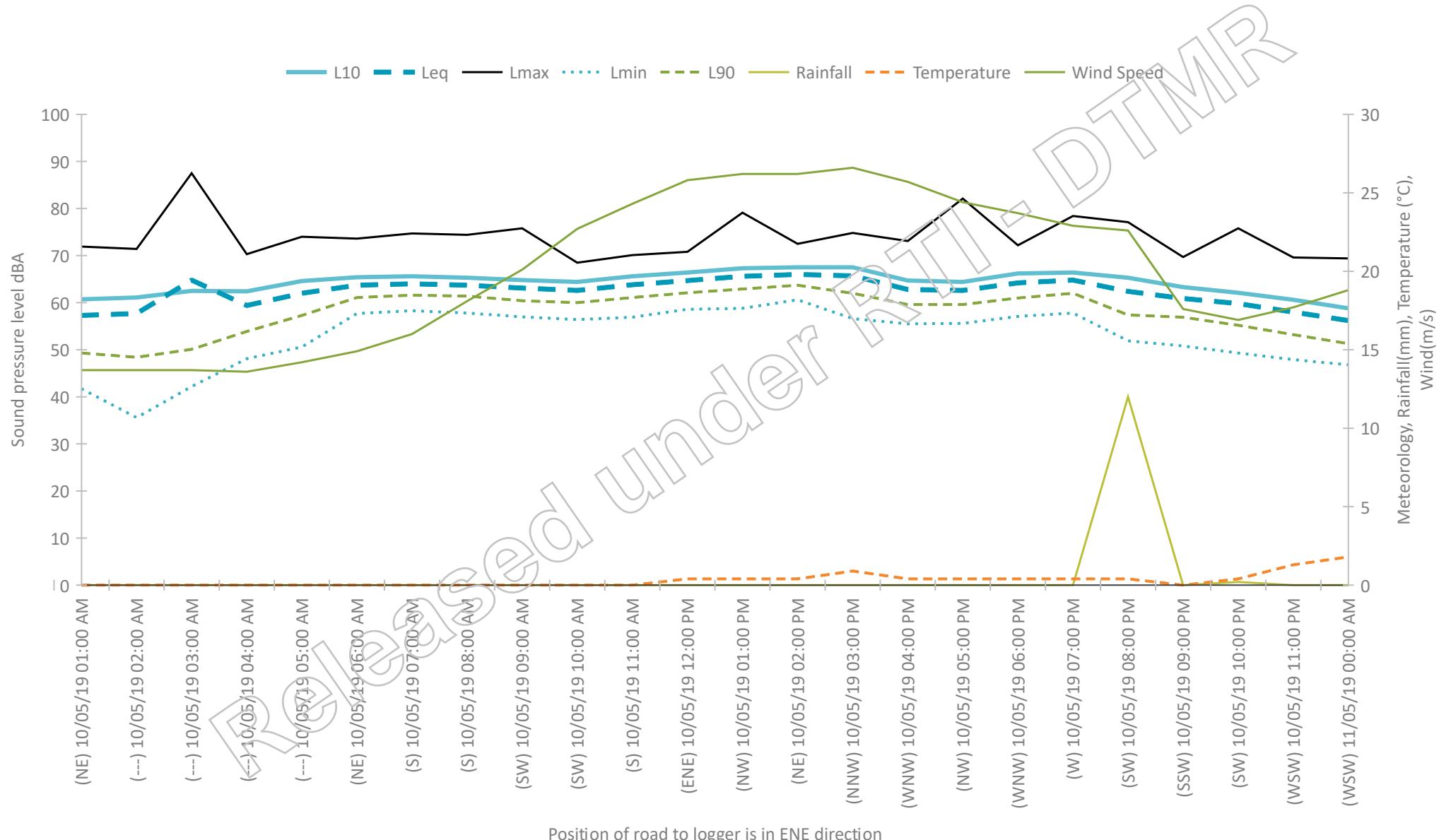
## Project 620.11007.00500 Version 1.0 131 Queens Road NUDGEE 9/05/2019



Address	131 Queens Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>64.8</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	63.1 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	58.6 dBA	
State Road	Gateway Motorway	Distance	172 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	65.8 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	51.3 dBA	
Instrument serial no	8781B1	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	58.0 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 66.3 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	57.3	71.9	64.7	60.7	55.1	49.3	41.7	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	57.7	71.4	65.9	61.1	54.8	48.4	35.6	0.0	13.7	---	0.0
Fri 10/05/19	3:00	64.8	87.5	78.8	62.5	56.2	50.1	42.2	0.0	13.7	---	0.0
Fri 10/05/19	4:00	59.4	70.3	65.3	62.4	58.1	53.9	48.1	0.0	13.6	---	0.0
Fri 10/05/19	5:00	62.0	74.0	66.7	64.6	61.2	57.3	50.6	0.0	14.2	---	0.0
Fri 10/05/19	6:00	63.7	73.6	67.3	65.4	63.2	61.1	57.7	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	64.0	74.7	67.8	65.6	63.6	61.6	58.3	0.0	16.0	S	0.0
Fri 10/05/19	8:00	63.7	74.4	67.5	65.3	63.3	61.4	57.8	0.0	18.1	S	0.0
Fri 10/05/19	9:00	63.1	75.8	67.4	64.8	62.5	60.4	57.0	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	62.6	68.5	66.3	64.4	62.2	60.0	56.4	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	63.8	70.1	67.5	65.6	63.3	61.1	56.9	0.0	24.3	S	0.0
Fri 10/05/19	12:00	64.7	70.8	68.1	66.4	64.3	62.1	58.6	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	65.6	79.1	69.4	67.3	65.2	62.9	58.8	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	66.0	72.5	69.5	67.5	65.6	63.7	60.6	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	65.7	74.8	69.3	67.5	65.5	62.0	56.6	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	62.8	73.1	67.1	64.7	62.2	59.6	55.5	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	62.6	82.1	67.4	64.4	61.9	59.6	55.6	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	64.2	72.2	68.4	66.2	63.7	61.0	57.1	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	64.8	78.4	69.1	66.4	64.2	62.0	57.8	0.0	22.9	W	0.4
Fri 10/05/19	20:00	62.4	77.1	68.0	65.3	61.1	57.4	51.9	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	60.9	69.7	66.4	63.3	60.1	56.9	50.8	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	59.8	75.8	65.9	62.1	58.6	55.2	49.3	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	58.0	69.6	64.1	60.6	56.8	53.2	47.9	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	56.2	69.4	62.8	58.8	55.0	51.3	46.8	0.0	18.8	WSW	1.8

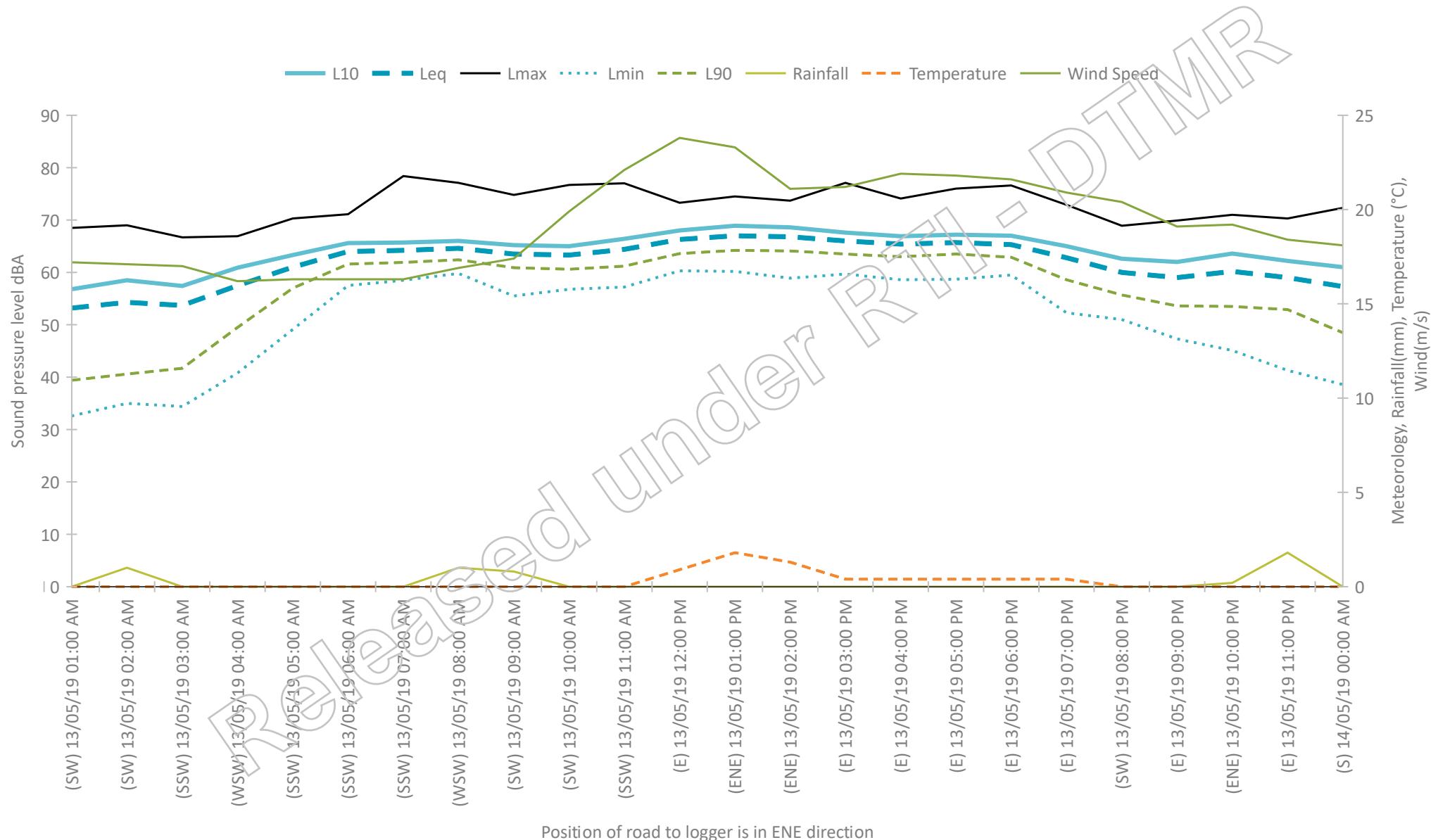
## Project 620.11007.00500 Version 1.0 131 Queens Road NUDGEE 10/05/2019



Address	131 Queens Road		AADT	74217	<b>LA10 (18 hour)</b>	<b>65.5</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	63.4	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	63.0	dBA	
State Road	Gateway Motorway		Distance	172 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	66.9	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	50.1	dBA
Instrument serial no	8781B1	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	56.9	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 67.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	53.2	68.5	62.4	56.8	49.2	39.4	32.6	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	54.3	69.0	64.1	58.5	49.1	40.6	35.0	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	53.7	66.7	62.1	57.4	50.8	41.7	34.4	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	57.5	66.9	64.1	60.9	55.9	49.5	40.8	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	61.0	70.3	65.5	63.3	60.3	57.0	49.1	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	64.0	71.1	67.3	65.6	63.7	61.6	57.5	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	64.2	78.4	68.5	65.7	63.7	61.9	58.5	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	64.6	77.1	67.8	66.0	64.2	62.4	59.8	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	63.5	74.8	67.1	65.2	63.1	60.9	55.5	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	63.3	76.7	67.2	65.0	62.8	60.6	56.8	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	64.4	77.0	68.8	66.4	63.8	61.2	57.2	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	66.3	73.3	69.8	68.0	65.8	63.6	60.3	0.0	23.8	E	0.9
Mon 13/05/19	13:00	67.0	74.5	71.4	68.9	66.4	64.2	60.2	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	66.8	73.7	70.7	68.6	66.4	64.1	58.9	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	66.0	77.1	69.3	67.6	65.7	63.5	59.7	0.0	21.2	E	0.4
Mon 13/05/19	16:00	65.4	74.1	68.8	66.9	65.0	63.0	58.6	0.0	21.9	E	0.4
Mon 13/05/19	17:00	65.7	76.0	69.3	67.2	65.3	63.5	58.7	0.0	21.8	E	0.4
Mon 13/05/19	18:00	65.3	76.6	68.9	67.0	64.8	62.9	59.5	0.0	21.6	E	0.4
Mon 13/05/19	19:00	62.8	72.9	67.3	65.0	62.1	58.6	52.3	0.0	20.9	E	0.4
Mon 13/05/19	20:00	60.0	68.9	65.3	62.6	59.0	55.7	51.0	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	59.0	69.9	65.0	62.0	57.7	53.6	47.3	0.0	19.1	E	0.0
Mon 13/05/19	22:00	60.2	71.0	67.0	63.6	58.5	53.5	45.1	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	59.0	70.3	66.0	62.2	57.2	52.9	41.3	1.8	18.4	E	0.0
Tue 14/05/19	0:00	57.3	72.3	64.6	61.0	55.1	48.5	38.6	0.0	18.1	S	0.0

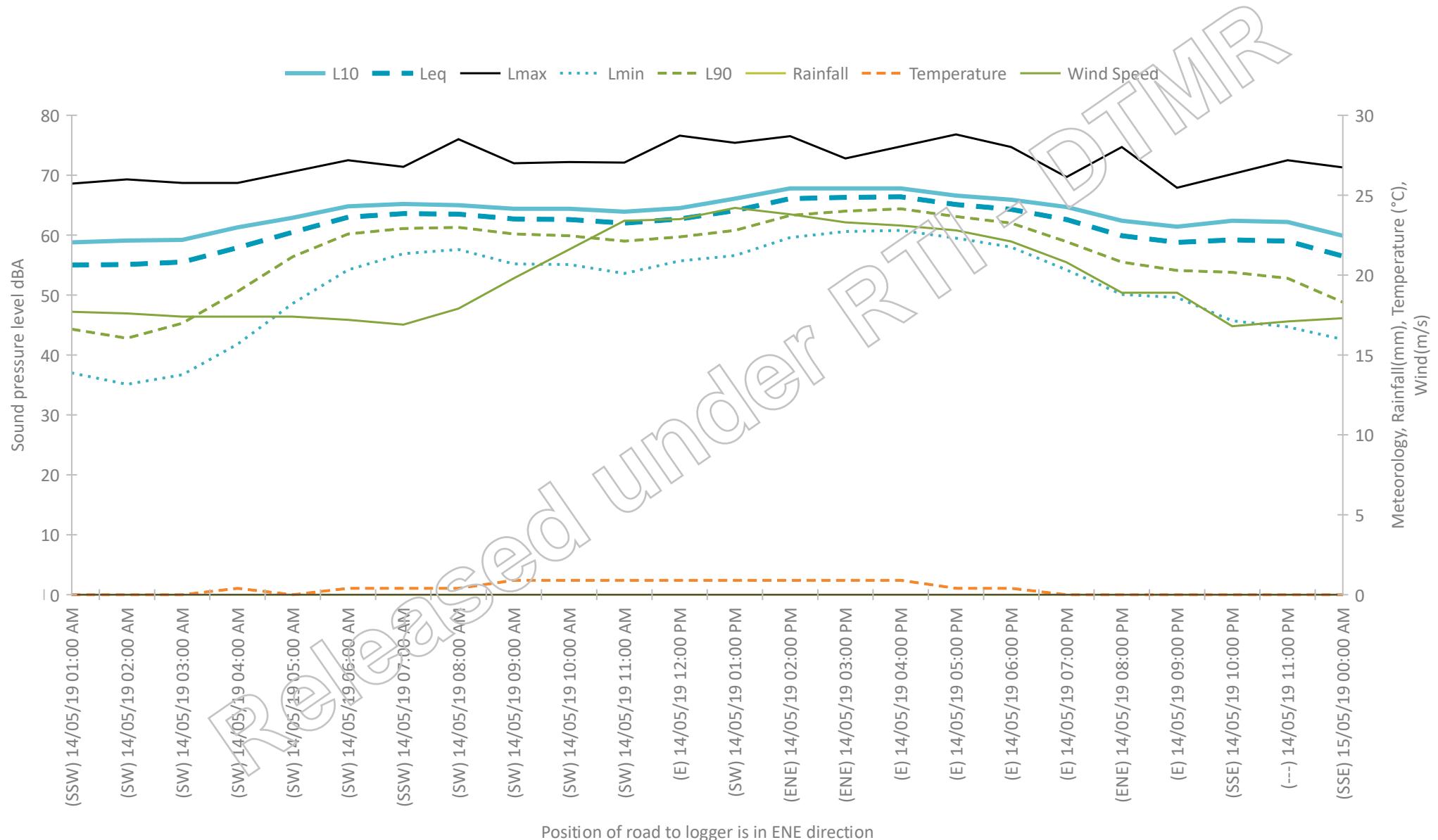
## Project 620.11007.00500 Version 1.0 131 Queens Road NUDGE 13/05/2019



Address	131 Queens Road		AADT	74217	<b>LA10 (18 hour)</b>	<b>64.6</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	62.6	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	63.2	dBA	
State Road	Gateway Motorway		Distance	172 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	65.8	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	49.9	dBA
Instrument serial no	8781B1	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	56.8	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 66.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	55.0	68.6	63.9	58.8	51.5	44.3	37.0	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	55.1	69.3	63.4	59.1	51.5	42.8	35.1	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	55.5	68.7	63.8	59.2	52.7	45.3	36.7	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	57.9	68.7	64.2	61.3	56.0	50.6	41.8	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	60.5	70.6	65.4	62.9	59.8	56.4	48.6	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	63.0	72.5	66.8	64.8	62.6	60.2	54.2	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	63.6	71.4	67.0	65.2	63.1	61.1	56.9	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	63.5	76.0	67.2	65.0	63.1	61.3	57.6	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	62.7	72.0	66.2	64.4	62.3	60.2	55.2	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	62.6	72.2	66.6	64.4	62.1	59.9	55.1	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	62.0	72.1	65.8	63.9	61.6	59.0	53.6	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	62.7	76.6	66.6	64.5	62.2	59.7	55.7	0.0	23.5	E	0.9
Tue 14/05/19	13:00	64.1	75.4	68.6	66.1	63.4	60.8	56.6	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	66.1	76.5	70.1	67.8	65.7	63.3	59.6	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	66.3	72.8	69.6	67.8	65.9	64.0	60.6	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	66.4	74.8	69.5	67.8	66.0	64.4	60.8	0.0	23.1	E	0.9
Tue 14/05/19	17:00	65.1	76.8	68.2	66.6	64.8	63.1	59.5	0.0	22.8	E	0.4
Tue 14/05/19	18:00	64.3	74.7	67.6	65.9	63.9	62.0	58.0	0.0	22.1	E	0.4
Tue 14/05/19	19:00	62.6	69.7	66.9	64.7	62.0	58.9	54.2	0.0	20.8	E	0.0
Tue 14/05/19	20:00	59.9	74.7	65.3	62.4	58.9	55.5	50.1	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	58.8	67.9	64.5	61.4	57.7	54.1	49.6	0.0	18.9	E	0.0
Tue 14/05/19	22:00	59.2	70.2	65.5	62.4	57.7	53.8	45.7	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	59.0	72.5	66.2	62.2	57.1	52.8	44.7	0.0	17.1	---	0.0
Wed 15/05/19	0:00	56.5	71.3	63.8	59.9	54.3	48.8	42.6	0.0	17.3	SSE	0.0

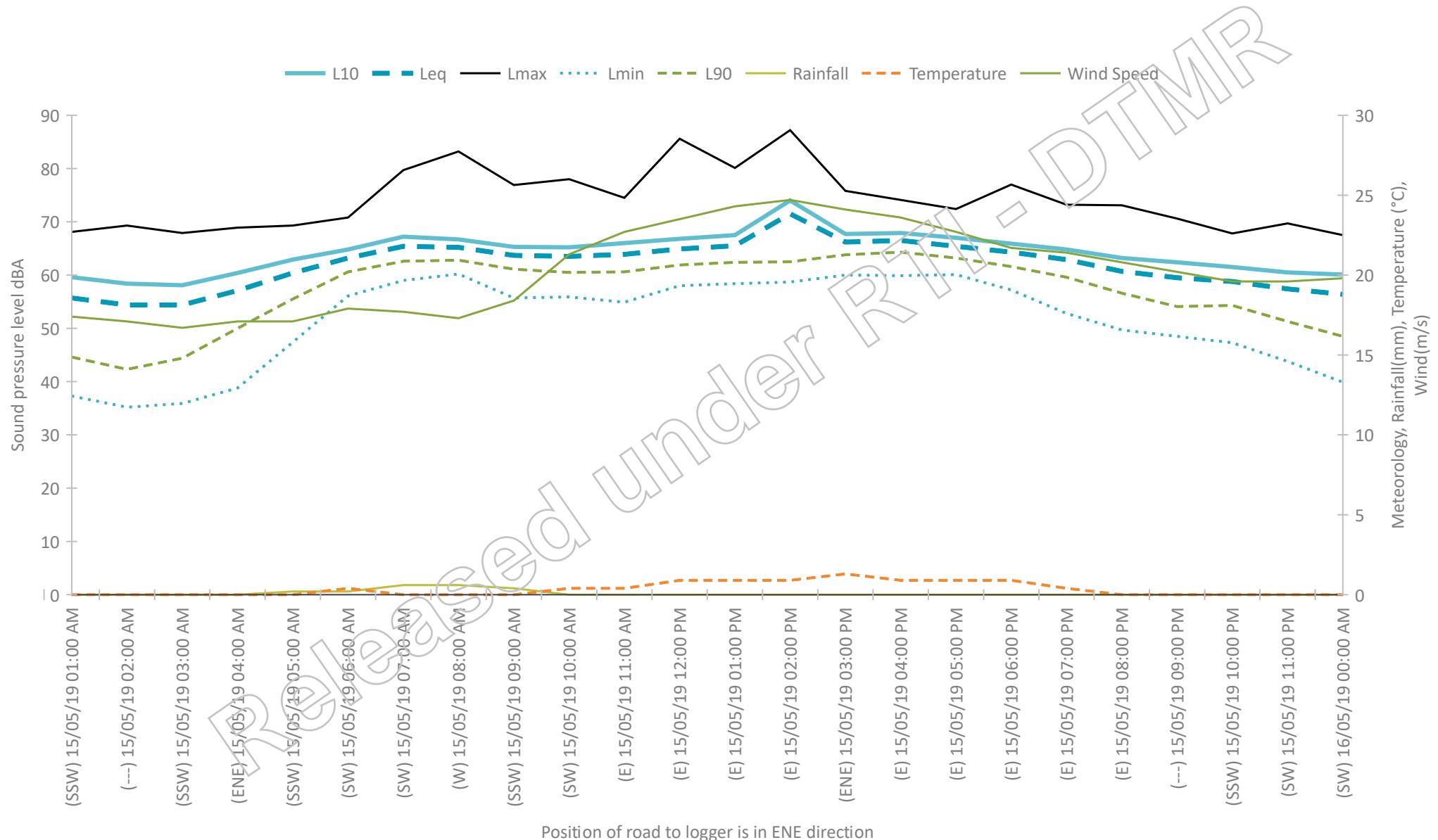
## Project 620.11007.00500 Version 1.0 131 Queens Road NUDGE 14/05/2019



Address	131 Queens Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>65.5</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	64.0	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	57.4	dBA
State Road	Gateway Motorway	Distance	172 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	67.3	dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	48.1	dBA
Instrument serial no	8781B1	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.0	dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	67.0	dBA
				based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	55.7	68.1	64.0	59.6	52.7	44.6	37.3	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	54.4	69.3	63.0	58.4	50.7	42.3	35.2	0.0	17.1	---	0.0
Wed 15/05/19	3:00	54.4	67.9	62.7	58.1	51.7	44.4	35.9	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	57.1	68.9	63.7	60.4	55.4	50.0	38.8	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	60.4	69.3	65.1	62.9	59.7	55.5	47.4	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	63.2	70.8	66.7	64.8	62.8	60.6	56.1	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	65.4	79.7	69.0	67.2	64.8	62.6	59.0	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	65.2	83.2	69.1	66.7	64.7	62.8	60.2	0.6	17.3	W	0.0
Wed 15/05/19	9:00	63.7	76.9	68.7	65.3	63.0	61.1	55.7	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	63.5	78.0	68.4	65.2	62.8	60.5	55.9	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	63.9	74.5	68.5	66.0	63.1	60.6	54.9	0.0	22.7	E	0.4
Wed 15/05/19	12:00	64.9	85.6	68.9	66.8	64.3	61.9	58.0	0.0	23.5	E	0.9
Wed 15/05/19	13:00	65.5	80.1	69.9	67.5	64.8	62.4	58.4	0.0	24.3	E	0.9
Wed 15/05/19	14:00	71.5	87.2	83.1	74.0	65.4	62.5	58.7	0.0	24.7	E	0.9
Wed 15/05/19	15:00	66.2	75.8	69.7	67.7	65.8	63.8	60.0	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	66.5	74.1	69.6	67.9	66.1	64.3	59.9	0.0	23.6	E	0.9
Wed 15/05/19	17:00	65.4	72.4	68.8	67.0	65.0	63.2	60.1	0.0	22.7	E	0.9
Wed 15/05/19	18:00	64.3	77.0	67.7	65.9	63.9	61.6	57.2	0.0	21.7	E	0.9
Wed 15/05/19	19:00	62.9	73.2	66.8	64.8	62.4	59.6	52.8	0.0	21.4	E	0.4
Wed 15/05/19	20:00	60.7	73.1	66.3	63.2	59.7	56.6	49.7	0.0	20.8	E	0.0
Wed 15/05/19	21:00	59.5	70.6	65.7	62.4	58.1	54.1	48.5	0.0	20.2	---	0.0
Wed 15/05/19	22:00	58.8	67.8	64.5	61.5	57.8	54.3	47.3	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	57.4	69.7	64.3	60.5	55.8	51.3	43.8	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	56.4	67.5	63.6	60.1	54.3	48.5	39.9	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 131 Queens Road NUDGE 15/05/2019



N/R

# Site 2 - 33 Bourke Crescent Nudgee

The noise measurement data at 33 Bourke Crescent NUDGE was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 14.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 9/05/2019 to 16/05/2019 respectively.

The noise measurement data at 33 Bourke Crescent NUDGE was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 1.

**Table 14: Measured road traffic noise levels at 33 Bourke Crescent NUDGE 4014**

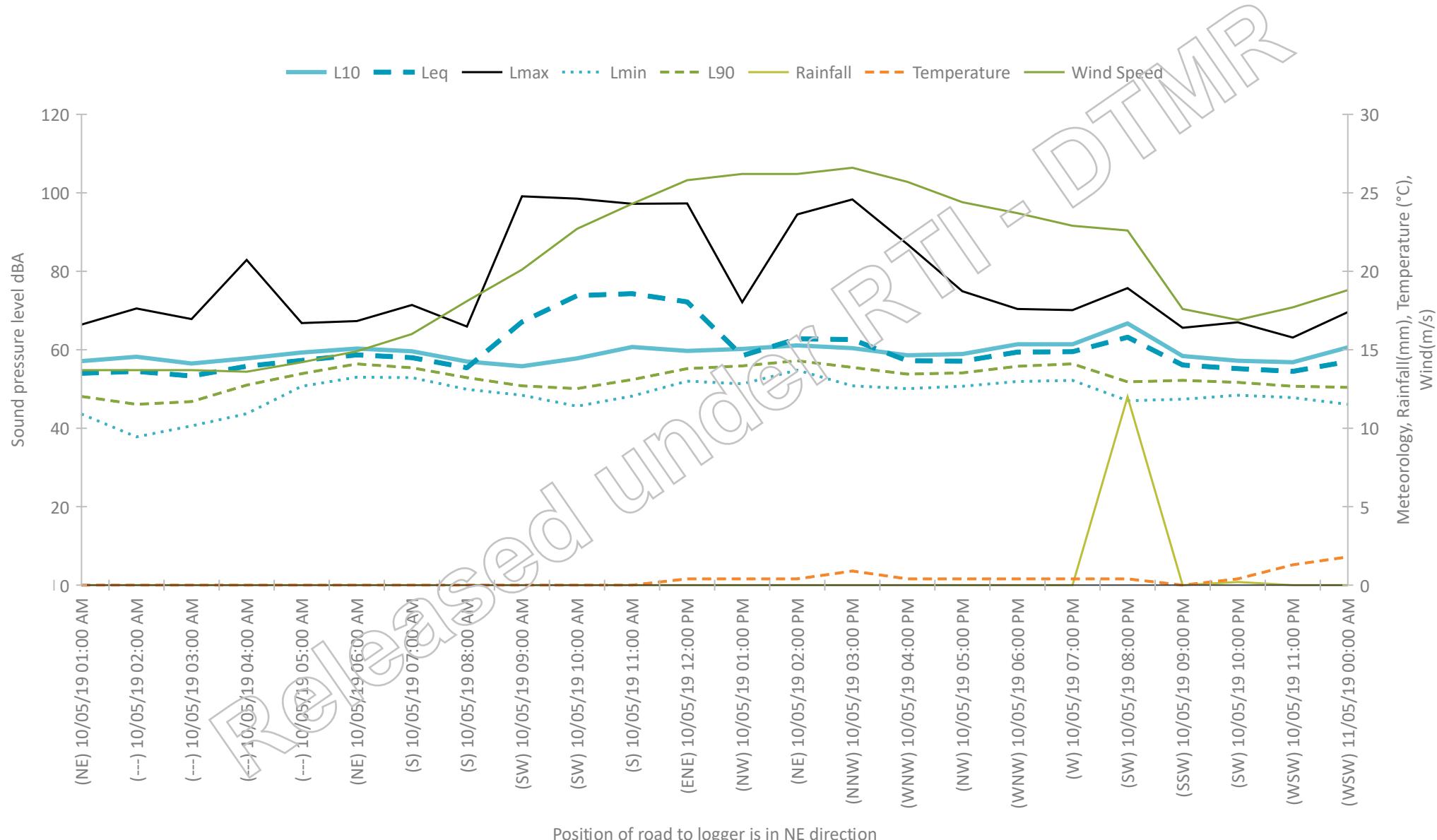
Facade corrected LA10 (18hr) dBA	
Friday 10/05/19	59.6
Monday 13/05/19	57.4
Tuesday 14/05/19	55.9
Wednesday 15/05/19	56.6

The level results were consistent with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	33 Bourke Crescent	AADT	74217	<b>LA10 (18 hour)</b>	<b>59.6</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	65.6 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.0 dBA
State Road	Gateway Motorway	Distance	271 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	59.3 dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	50.7 dBA
Instrument serial no	8781DB	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.7 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	58.9 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	54.0	66.4	60.9	57.1	52.2	48.1	43.6	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	54.5	70.5	62.9	58.2	51.3	46.1	37.8	0.0	13.7	---	0.0
Fri 10/05/19	3:00	53.3	67.8	60.0	56.5	51.6	46.8	40.6	0.0	13.7	---	0.0
Fri 10/05/19	4:00	55.8	82.9	60.5	57.8	54.5	51.0	43.7	0.0	13.6	---	0.0
Fri 10/05/19	5:00	57.3	66.8	61.5	59.3	56.8	53.9	50.7	0.0	14.2	---	0.0
Fri 10/05/19	6:00	58.7	67.3	61.9	60.3	58.4	56.4	53.0	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	58.0	71.4	61.9	59.6	57.4	55.4	52.9	0.0	16.0	S	0.0
Fri 10/05/19	8:00	55.4	65.9	59.2	57.0	54.9	52.9	49.9	0.0	18.1	S	0.0
Fri 10/05/19	9:00	67.1	99.1	74.5	55.8	52.9	50.8	48.4	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	73.8	98.5	88.9	57.8	52.5	50.1	45.6	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	74.3	97.2	89.2	60.7	55.3	52.4	48.2	0.0	24.3	S	0.0
Fri 10/05/19	12:00	72.2	97.3	87.6	59.7	57.2	55.2	52.0	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	58.5	72.1	62.8	60.2	58.0	55.9	51.3	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	62.8	94.5	63.5	61.1	59.0	57.2	54.8	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	62.6	98.3	62.4	60.4	58.3	55.5	50.8	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	57.2	86.9	61.7	58.6	56.3	53.8	50.1	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	57.1	74.9	62.4	58.9	56.2	54.1	50.7	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	59.4	70.4	64.1	61.4	58.6	55.8	51.9	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	59.5	70.1	63.5	61.4	59.0	56.4	52.2	0.0	22.9	W	0.4
Fri 10/05/19	20:00	63.2	75.7	73.7	66.7	57.3	51.8	47.0	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	56.1	65.6	60.9	58.4	55.5	52.2	47.4	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	55.2	67.0	60.9	57.2	54.4	51.7	48.4	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	54.5	63.1	59.3	56.8	53.7	50.7	47.8	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	57.0	69.6	65.3	60.6	54.0	50.4	46.1	0.0	18.8	WSW	1.8

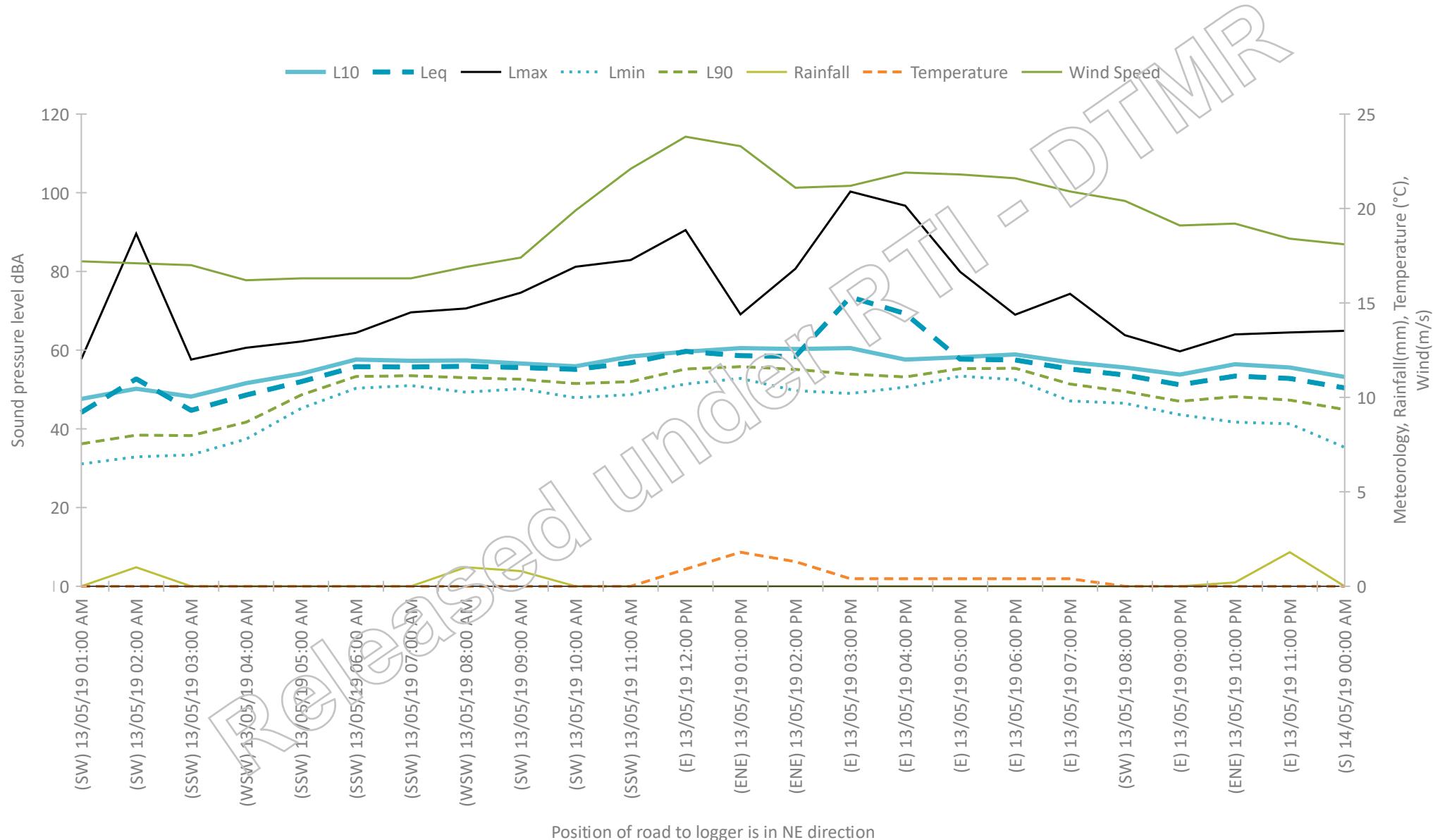
## Project 620.11007.00500 Version 1.0 33 Bourke Crescent NUDGE 10/05/2019



Address	33 Bourke Crescent		AADT	74217	<b>LA10 (18 hour)</b>	<b>57.4</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	62.0 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	53.1 dBA	
State Road	Gateway Motorway		Distance	271 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	58.4 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	44.1 dBA
Instrument serial no	8781DB	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	49.6 dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 58.9 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	44.2	57.7	52.2	47.6	41.9	36.2	31.1	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	52.7	89.6	55.4	50.2	43.8	38.4	32.9	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	44.7	57.6	52.2	48.2	42.2	38.3	33.4	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	48.6	60.6	54.8	51.6	47.4	41.7	37.4	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	52.0	62.2	56.3	54.0	51.3	48.6	45.2	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	55.8	64.4	59.6	57.6	55.3	53.3	50.3	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	55.7	69.6	59.3	57.3	55.2	53.5	51.0	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	55.9	70.6	61.6	57.4	55.1	53.0	49.3	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	55.6	74.6	63.6	56.6	54.2	52.6	50.2	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	55.1	81.2	62.9	55.9	53.6	51.5	47.9	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	56.8	82.9	64.6	58.4	54.9	52.0	48.7	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	59.7	90.5	62.7	59.6	57.4	55.2	51.4	0.0	23.8	E	0.9
Mon 13/05/19	13:00	58.6	69.1	62.7	60.5	57.9	55.8	52.8	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	58.4	80.7	62.6	60.3	57.8	55.1	49.7	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	73.5	100.3	87.9	60.5	56.3	53.9	49.0	0.0	21.2	E	0.4
Mon 13/05/19	16:00	69.3	96.7	82.5	57.6	55.1	53.2	50.6	0.0	21.9	E	0.4
Mon 13/05/19	17:00	57.7	79.9	62.2	58.2	56.6	55.3	53.4	0.0	21.8	E	0.4
Mon 13/05/19	18:00	57.5	69.0	61.0	58.9	57.0	55.4	52.5	0.0	21.6	E	0.4
Mon 13/05/19	19:00	55.2	74.3	59.5	56.9	54.4	51.4	47.1	0.0	20.9	E	0.4
Mon 13/05/19	20:00	53.7	63.8	61.4	55.6	52.1	49.5	46.5	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	51.2	59.7	56.0	53.8	50.2	47.0	43.6	0.0	19.1	E	0.0
Mon 13/05/19	22:00	53.4	64.0	59.5	56.4	51.9	48.2	41.7	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	52.8	64.5	59.2	55.6	51.5	47.3	41.3	1.8	18.4	E	0.0
Tue 14/05/19	0:00	50.4	64.9	57.2	53.2	48.8	44.9	35.3	0.0	18.1	S	0.0

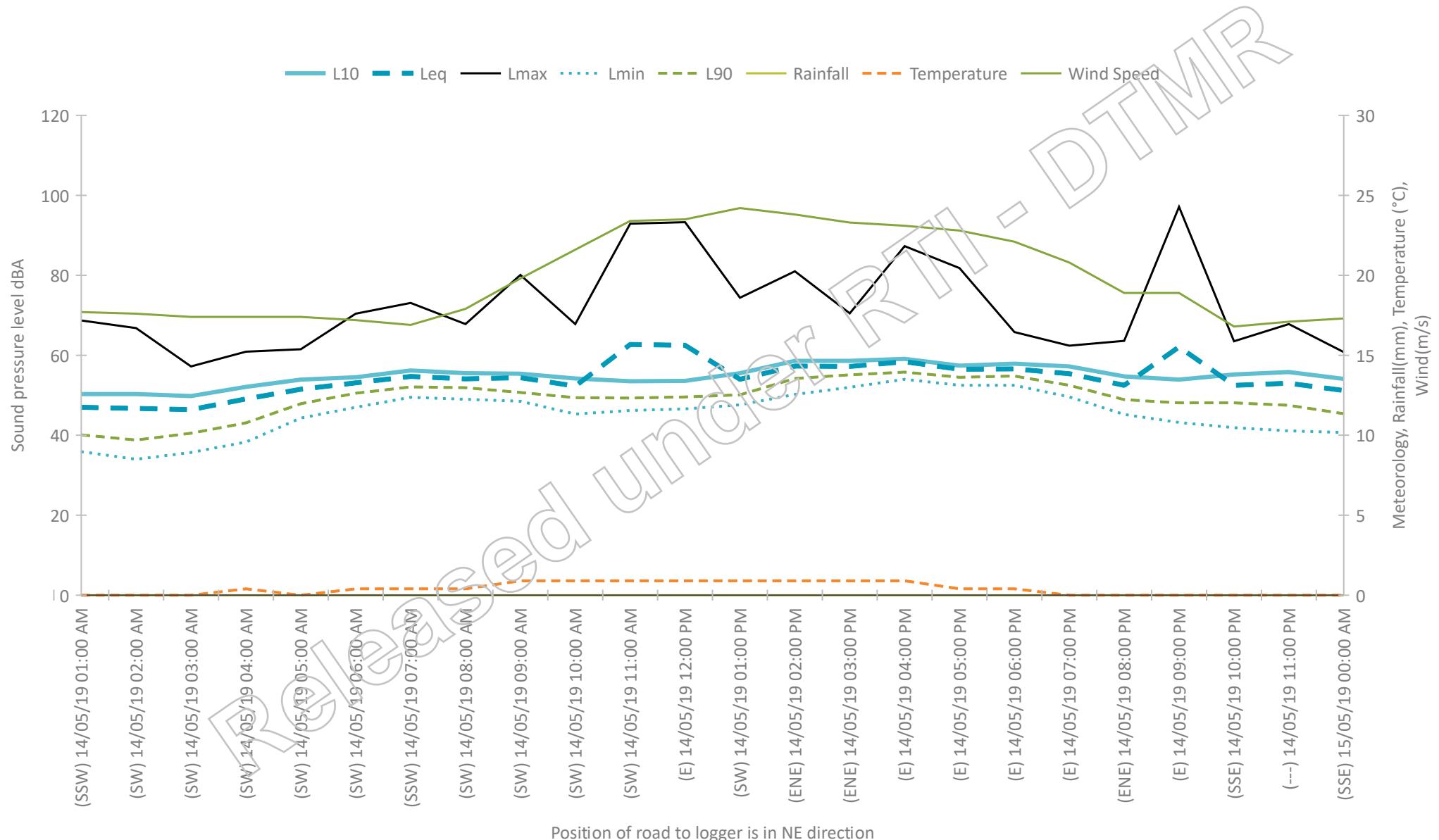
## Project 620.11007.00500 Version 1.0 33 Bourke Crescent NUDGE 13/05/2019



Address	33 Bourke Crescent	AADT	74217	<b>LA10 (18 hour)</b>	<b>55.9</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	56.5 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	53.4 dBA	
State Road	Gateway Motorway	Distance	271 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	56.3 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	44.7 dBA	
Instrument serial no	8781DB	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	49.1 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 57.4 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	47.0	68.7	54.6	50.3	44.7	40.1	35.9	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	46.7	66.8	54.1	50.3	44.4	38.8	34.0	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	46.4	57.2	53.2	49.8	44.7	40.5	35.7	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	49.1	60.9	56.0	52.1	47.5	43.1	38.3	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	51.5	61.5	57.1	53.9	50.6	47.9	44.3	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	53.1	70.4	57.4	54.5	52.6	50.5	47.0	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	54.7	73.1	58.7	56.2	54.1	52.1	49.5	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	54.1	67.8	58.3	55.5	53.5	51.9	49.0	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	54.4	80.1	61.7	55.4	52.6	50.7	48.5	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	52.3	67.8	57.9	54.2	51.4	49.4	45.3	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	62.7	92.9	60.2	53.5	51.3	49.3	46.2	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	62.5	93.3	57.1	53.6	51.5	49.6	46.6	0.0	23.5	E	0.9
Tue 14/05/19	13:00	54.0	74.4	58.2	55.5	53.0	50.1	47.6	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	57.3	81.0	61.0	58.6	56.4	54.2	50.2	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	57.2	70.5	60.5	58.6	56.8	55.1	52.0	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	58.4	87.3	62.4	59.1	57.2	55.8	54.0	0.0	23.1	E	0.9
Tue 14/05/19	17:00	56.5	81.8	59.8	57.4	55.8	54.5	52.5	0.0	22.8	E	0.4
Tue 14/05/19	18:00	56.6	65.8	60.0	57.9	56.2	54.8	52.5	0.0	22.1	E	0.4
Tue 14/05/19	19:00	55.4	62.4	59.5	57.2	54.8	52.5	49.6	0.0	20.8	E	0.0
Tue 14/05/19	20:00	52.5	63.6	57.4	54.7	51.6	48.9	45.2	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	62.1	97.1	56.6	53.9	50.8	48.1	43.2	0.0	18.9	E	0.0
Tue 14/05/19	22:00	52.5	63.5	58.2	55.2	51.3	48.1	41.9	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	53.0	67.8	60.4	55.8	51.4	47.5	41.1	0.0	17.1	---	0.0
Wed 15/05/19	0:00	51.2	60.8	57.4	54.1	50.0	45.4	40.7	0.0	17.3	SSE	0.0

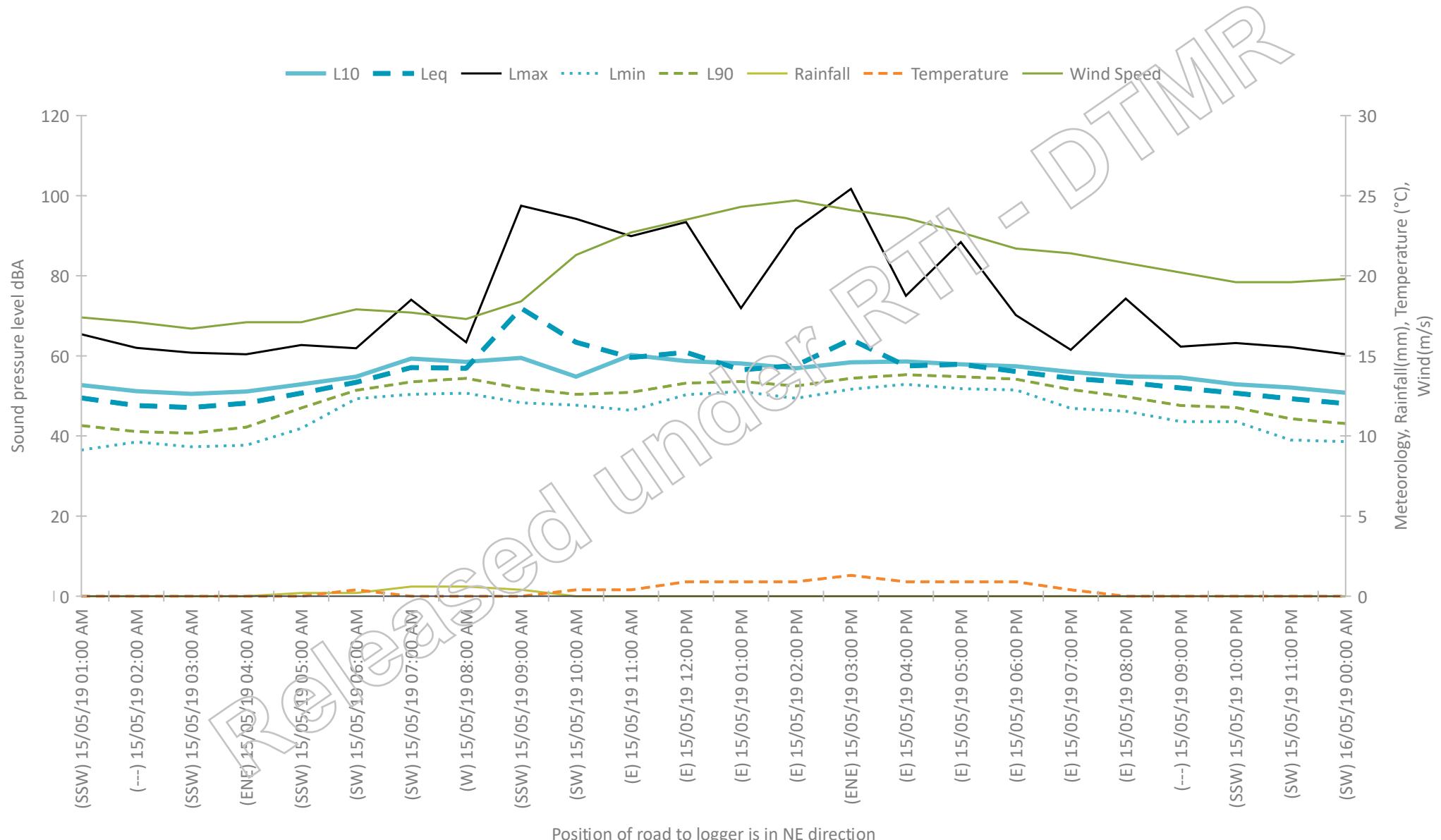
## Project 620.11007.00500 Version 1.0 33 Bourke Crescent NUDGE 14/05/2019



Address	33 Bourke Crescent			AADT	74217	<b>LA10 (18 hour)</b>	<b>56.6</b>	dBA
Contact name	N/R			AADT year	2019	LAeq (24 hour)	60.6	dBA
Region	Metropolitan			%CV	17.82	LAeq (1 hour) Night	53.3	dBA
State Road	Gateway Motorway			Distance	271 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C			Speed limit	100 km/hr	LA10 (12 hour)	58.2	dBA
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	43.2	dBA
Instrument serial no	8781DB	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	49.5	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 58.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	49.5	65.4	57.1	52.7	47.3	42.6	36.5	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	47.6	62.0	55.3	51.2	45.0	41.1	38.5	0.0	17.1	---	0.0
Wed 15/05/19	3:00	47.1	60.8	54.7	50.5	44.5	40.7	37.3	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	48.2	60.4	55.3	51.1	46.6	42.2	37.7	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	50.7	62.7	55.3	52.9	50.0	47.0	41.9	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	53.4	61.9	56.5	54.8	53.0	51.4	49.3	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	57.1	74.0	60.9	59.3	56.4	53.5	50.4	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	56.9	63.4	60.4	58.5	56.6	54.4	50.7	0.6	17.3	W	0.0
Wed 15/05/19	9:00	71.9	97.5	85.9	59.5	53.9	51.9	48.3	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	63.4	94.2	66.9	54.8	52.5	50.4	47.7	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	59.6	89.9	67.9	60.2	54.0	50.9	46.4	0.0	22.7	E	0.4
Wed 15/05/19	12:00	60.9	93.4	65.6	58.7	55.5	53.2	50.3	0.0	23.5	E	0.9
Wed 15/05/19	13:00	56.5	71.9	61.9	58.1	55.7	53.6	51.1	0.0	24.3	E	0.9
Wed 15/05/19	14:00	57.6	91.7	59.6	56.9	54.7	52.5	49.4	0.0	24.7	E	0.9
Wed 15/05/19	15:00	64.1	101.7	60.4	58.4	56.5	54.4	51.7	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	57.5	75.0	60.8	58.6	57.0	55.3	52.9	0.0	23.6	E	0.9
Wed 15/05/19	17:00	57.9	88.4	61.7	57.9	56.2	54.8	51.8	0.0	22.7	E	0.9
Wed 15/05/19	18:00	56.1	70.2	59.7	57.4	55.7	54.2	51.5	0.0	21.7	E	0.9
Wed 15/05/19	19:00	54.4	61.5	57.8	56.0	54.1	51.6	46.9	0.0	21.4	E	0.4
Wed 15/05/19	20:00	53.4	74.3	58.0	54.9	52.2	49.8	46.2	0.0	20.8	E	0.0
Wed 15/05/19	21:00	52.0	62.3	57.6	54.6	50.8	47.6	43.6	0.0	20.2	---	0.0
Wed 15/05/19	22:00	50.7	63.2	56.2	52.9	49.8	47.1	43.6	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	49.3	62.2	56.1	52.1	47.9	44.3	39.0	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	48.1	60.4	54.7	50.8	46.5	43.1	38.6	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 33 Bourke Crescent NUDGE 15/05/2019



Released under RTI - DTMR

N/R

# Site 3 - 9 Holroyd Street, Boondall

The noise measurement data at 9 Holroyd Road BOONDALL was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 15.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

The noise measurement data at 9 Holroyd Road BOONDALL was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 1.

**Table 15: Measured road traffic noise levels at 9 Holroyd Road BOONDALL 4034**

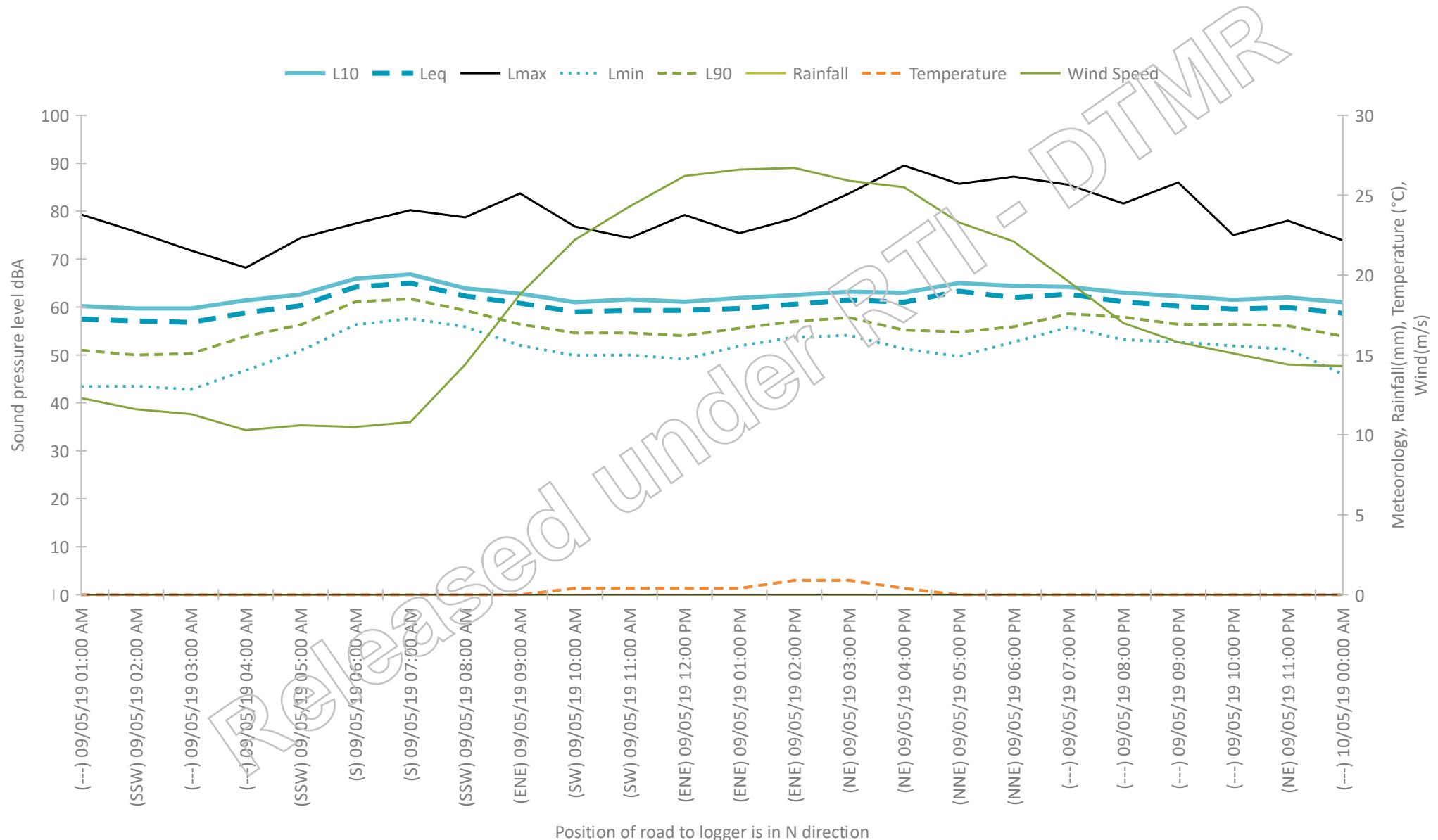
Facade corrected LA10 (18hr) dBA	
Thursday 09/05/19	62.8
Friday 10/05/19	63.8
Monday 13/05/19	62.1
Tuesday 14/05/19	60.5
Wednesday 15/05/19	61.5

The level results were consistent with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	9 Holroyd Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>62.8</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	61.0 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.9 dBA	
State Road	Gateway Motorway	Distance	148 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.1 dBA	
Instrument type	Ngara	Microphone height	3 m	LA90 (8 hour)	53.3 dBA	
Instrument serial no	8781CD	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.8 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 64.3 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	57.5	79.3	64.6	60.2	55.6	51.0	43.4	0.0	12.3	---	0.0
Thu 09/05/19	2:00	57.1	75.7	65.3	59.7	54.8	50.0	43.5	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	56.8	71.8	63.5	59.7	55.2	50.3	42.8	0.0	11.3	---	0.0
Thu 09/05/19	4:00	58.8	68.2	64.4	61.4	57.8	53.9	46.8	0.0	10.3	---	0.0
Thu 09/05/19	5:00	60.3	74.4	65.7	62.6	59.3	56.3	50.9	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	64.2	77.4	68.3	65.9	63.7	61.1	56.3	0.0	10.5	S	0.0
Thu 09/05/19	7:00	65.0	80.2	70.6	66.8	64.1	61.7	57.6	0.0	10.8	S	0.0
Thu 09/05/19	8:00	62.3	78.7	68.8	63.9	61.3	59.3	55.9	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	60.8	83.7	68.6	62.8	59.3	56.4	52.0	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	59.0	76.8	65.8	61.0	57.4	54.6	49.9	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	59.3	74.4	66.7	61.6	57.6	54.6	50.0	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	59.3	79.2	68.3	61.1	56.9	54.0	49.1	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	59.7	75.4	66.4	61.9	58.4	55.6	51.9	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	60.6	78.5	66.7	62.5	59.4	57.0	53.7	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	61.5	83.7	68.4	63.2	60.2	57.8	54.1	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	61.0	89.5	69.0	63.0	59.1	55.2	51.3	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	63.3	85.7	75.2	65.0	57.9	54.8	49.7	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	62.0	87.2	71.7	64.4	58.6	55.9	52.7	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	62.7	85.5	70.5	64.2	60.7	58.6	55.8	0.0	19.6	---	0.0
Thu 09/05/19	20:00	61.1	81.6	66.7	63.0	60.0	57.9	53.2	0.0	17.0	---	0.0
Thu 09/05/19	21:00	60.2	86.0	65.3	62.3	59.2	56.4	52.7	0.0	15.8	---	0.0
Thu 09/05/19	22:00	59.6	75.0	65.7	61.5	58.7	56.4	51.9	0.0	15.1	---	0.0
Thu 09/05/19	23:00	59.9	78.0	66.0	62.0	58.7	56.1	51.2	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	58.7	73.9	65.2	61.0	57.4	53.9	46.0	0.0	14.3	---	0.0

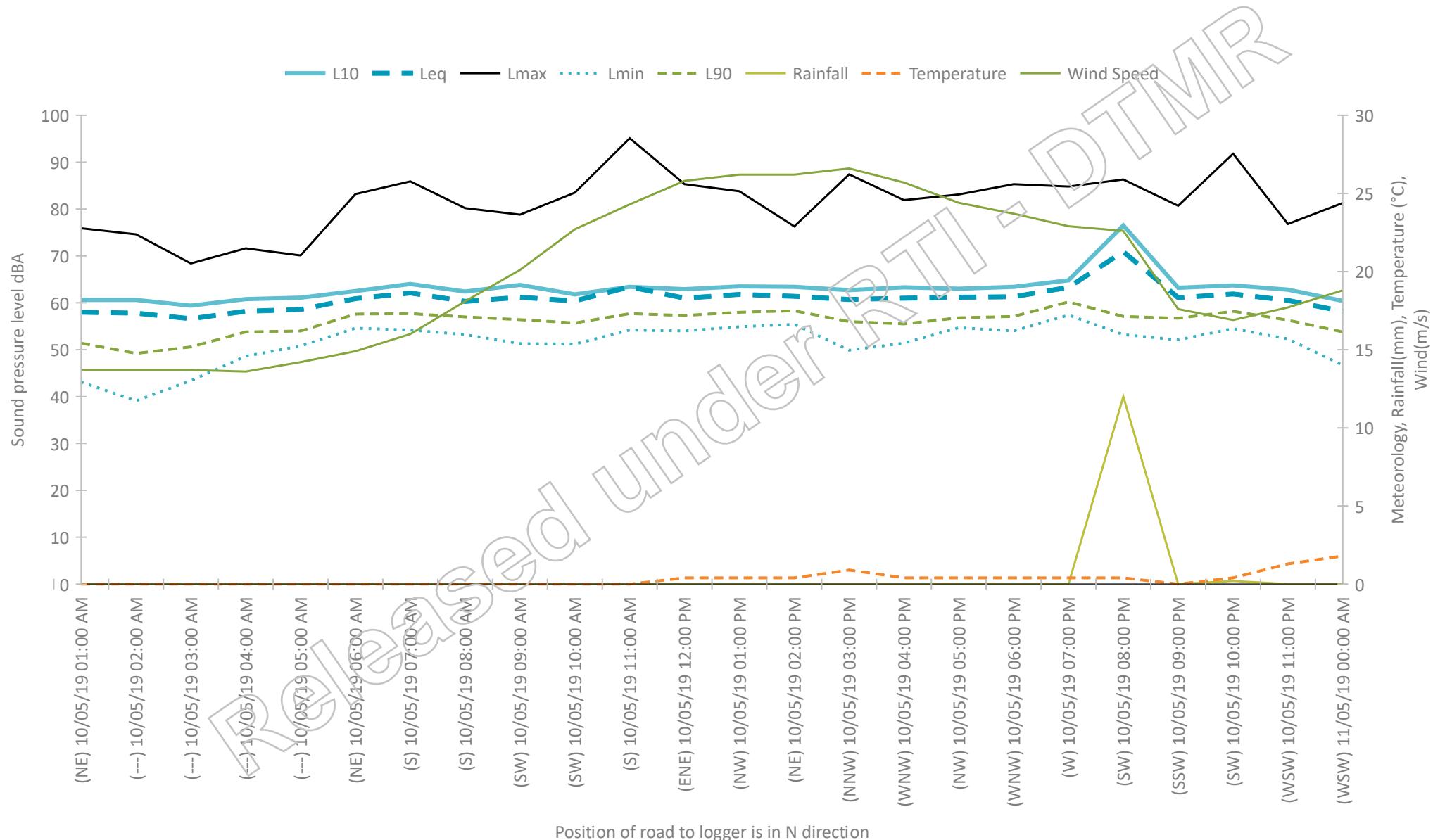
## Project 620.11007.00500 Version 1.0 9 Holroyd Road BOONDALL 9/05/2019



Address	9 Holroyd Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>63.8</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	62.2 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.5 dBA
State Road	Gateway Motorway	Distance	148 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.1 dBA
Instrument type	Ngara	Microphone height	3 m	LA90 (8 hour)	51.2 dBA
Instrument serial no	8781CD	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.9 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	65.3 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	58.0	75.9	65.0	60.6	56.2	51.4	43.1	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	57.8	74.6	65.6	60.6	55.2	49.2	39.1	0.0	13.7	---	0.0
Fri 10/05/19	3:00	56.6	68.4	62.2	59.4	55.6	50.6	43.4	0.0	13.7	---	0.0
Fri 10/05/19	4:00	58.2	71.6	63.2	60.8	57.1	53.8	48.6	0.0	13.6	---	0.0
Fri 10/05/19	5:00	58.6	70.1	64.5	61.1	57.4	54.0	50.8	0.0	14.2	---	0.0
Fri 10/05/19	6:00	60.9	83.2	65.2	62.5	60.1	57.6	54.6	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	62.1	85.9	70.1	64.0	60.2	57.7	54.2	0.0	16.0	S	0.0
Fri 10/05/19	8:00	60.3	80.2	65.7	62.4	59.4	57.0	53.2	0.0	18.1	S	0.0
Fri 10/05/19	9:00	61.2	78.8	68.3	63.8	59.3	56.4	51.3	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	60.4	83.5	68.3	61.8	58.5	55.7	51.2	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	63.4	95.1	67.7	63.4	60.3	57.7	54.2	0.0	24.3	S	0.0
Fri 10/05/19	12:00	61.0	85.3	67.5	62.9	59.8	57.3	54.0	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	61.8	83.8	68.6	63.5	60.3	58.0	54.9	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	61.4	76.3	66.8	63.4	60.4	58.3	55.4	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	60.7	87.4	67.4	62.7	59.1	56.0	49.9	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	61.0	81.9	70.5	63.3	58.4	55.5	51.4	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	61.2	83.1	69.4	63.0	59.0	56.8	54.7	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	61.3	85.3	68.6	63.4	59.5	57.1	54.0	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	63.3	84.8	69.8	64.8	62.3	60.2	57.4	0.0	22.9	W	0.4
Fri 10/05/19	20:00	70.9	86.3	80.6	76.5	60.6	57.1	53.2	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	61.1	80.7	67.5	63.2	60.0	56.7	52.1	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	61.9	91.8	66.9	63.7	60.7	58.2	54.5	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	60.5	76.8	66.0	62.8	59.5	56.3	52.3	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	58.2	81.3	63.8	60.4	57.1	53.8	46.7	0.0	18.8	WSW	1.8

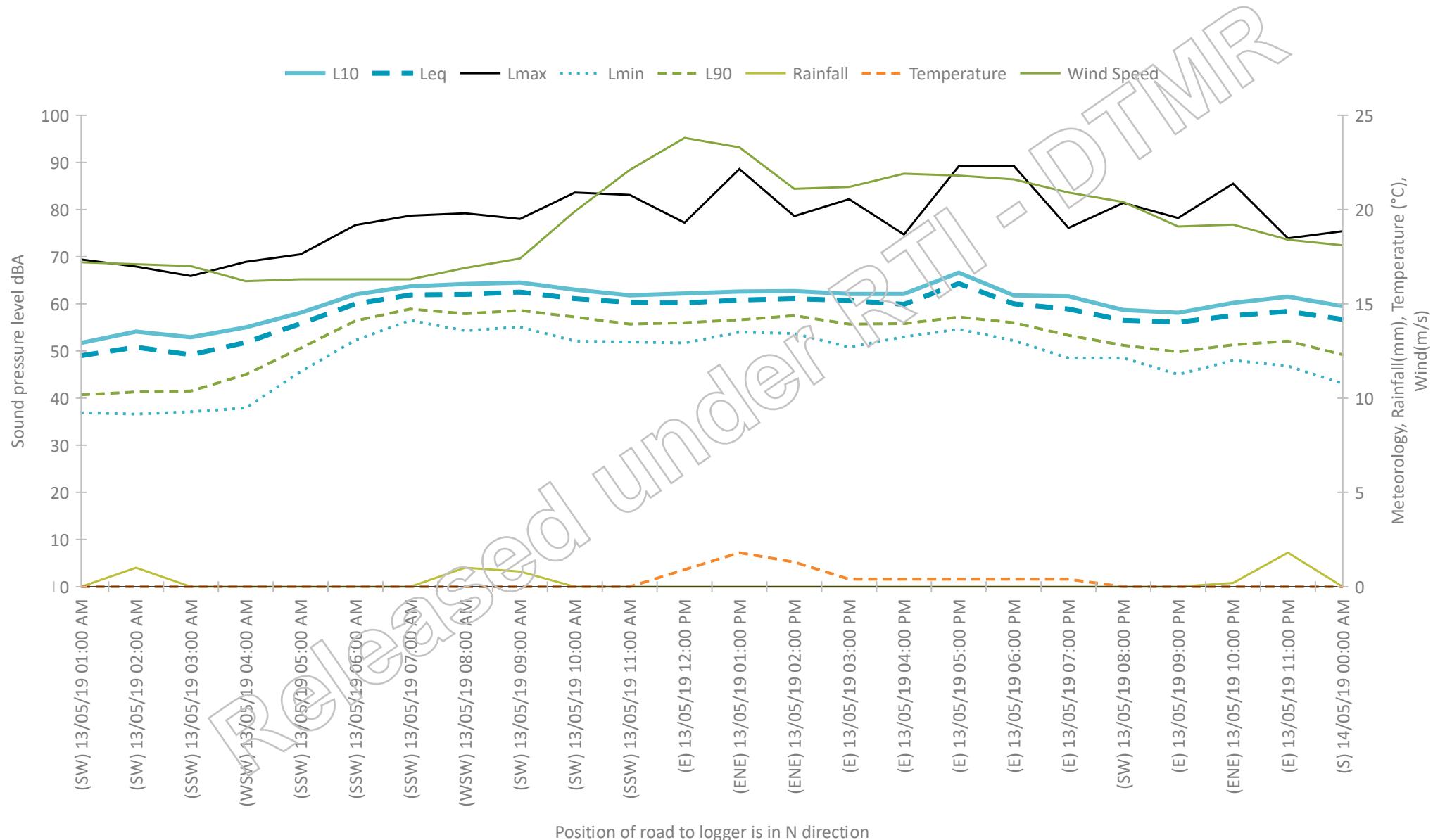
## Project 620.11007.00500 Version 1.0 9 Holroyd Road BOONDALL 10/05/2019



Address	9 Holroyd Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>62.1</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.6 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	59.7 dBA
State Road	Gateway Motorway	Distance	148 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.1 dBA
Instrument type	Ngara	Microphone height	3 m	LA90 (8 hour)	48.1 dBA
Instrument serial no	8781CD	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.7 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	63.5 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	49.0	69.4	57.9	51.7	45.2	40.7	36.9	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	50.8	67.9	59.7	54.1	47.1	41.3	36.6	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	49.2	65.9	58.0	52.9	46.0	41.5	37.1	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	51.8	68.9	59.8	55.0	49.6	45.0	37.9	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	55.8	70.5	63.1	58.1	54.3	50.6	45.6	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	60.0	76.7	65.0	62.0	59.4	56.4	52.3	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	61.9	78.7	66.8	63.7	61.0	58.9	56.5	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	62.0	79.2	69.0	64.2	60.5	57.9	54.3	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	62.5	78.0	68.9	64.5	61.3	58.6	55.1	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	61.1	83.6	66.8	63.0	59.9	57.2	52.1	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	60.3	83.1	67.2	61.8	58.5	55.7	51.9	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	60.2	77.2	67.1	62.2	59.0	56.0	51.7	0.0	23.8	E	0.9
Mon 13/05/19	13:00	60.8	88.6	68.1	62.6	59.2	56.6	54.0	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	61.1	78.6	68.5	62.7	60.0	57.5	53.7	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	60.7	82.2	69.0	62.1	58.7	55.7	50.8	0.0	21.2	E	0.4
Mon 13/05/19	16:00	59.9	74.7	67.2	62.1	58.3	55.8	53.0	0.0	21.9	E	0.4
Mon 13/05/19	17:00	64.3	89.2	74.6	66.6	60.2	57.2	54.6	0.0	21.8	E	0.4
Mon 13/05/19	18:00	60.0	89.3	66.0	61.8	58.2	56.0	52.2	0.0	21.6	E	0.4
Mon 13/05/19	19:00	58.9	76.1	67.0	61.6	56.8	53.3	48.5	0.0	20.9	E	0.4
Mon 13/05/19	20:00	56.5	81.4	64.4	58.7	54.1	51.2	48.5	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	56.1	78.2	64.1	58.1	53.2	49.8	45.0	0.0	19.1	E	0.0
Mon 13/05/19	22:00	57.5	85.5	64.0	60.2	55.4	51.3	48.0	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	58.4	73.9	66.1	61.5	56.0	52.1	46.8	1.8	18.4	E	0.0
Tue 14/05/19	0:00	56.7	75.4	64.3	59.5	54.2	49.2	43.1	0.0	18.1	S	0.0

## Project 620.11007.00500 Version 1.0 9 Holroyd Road BOONDALL 13/05/2019

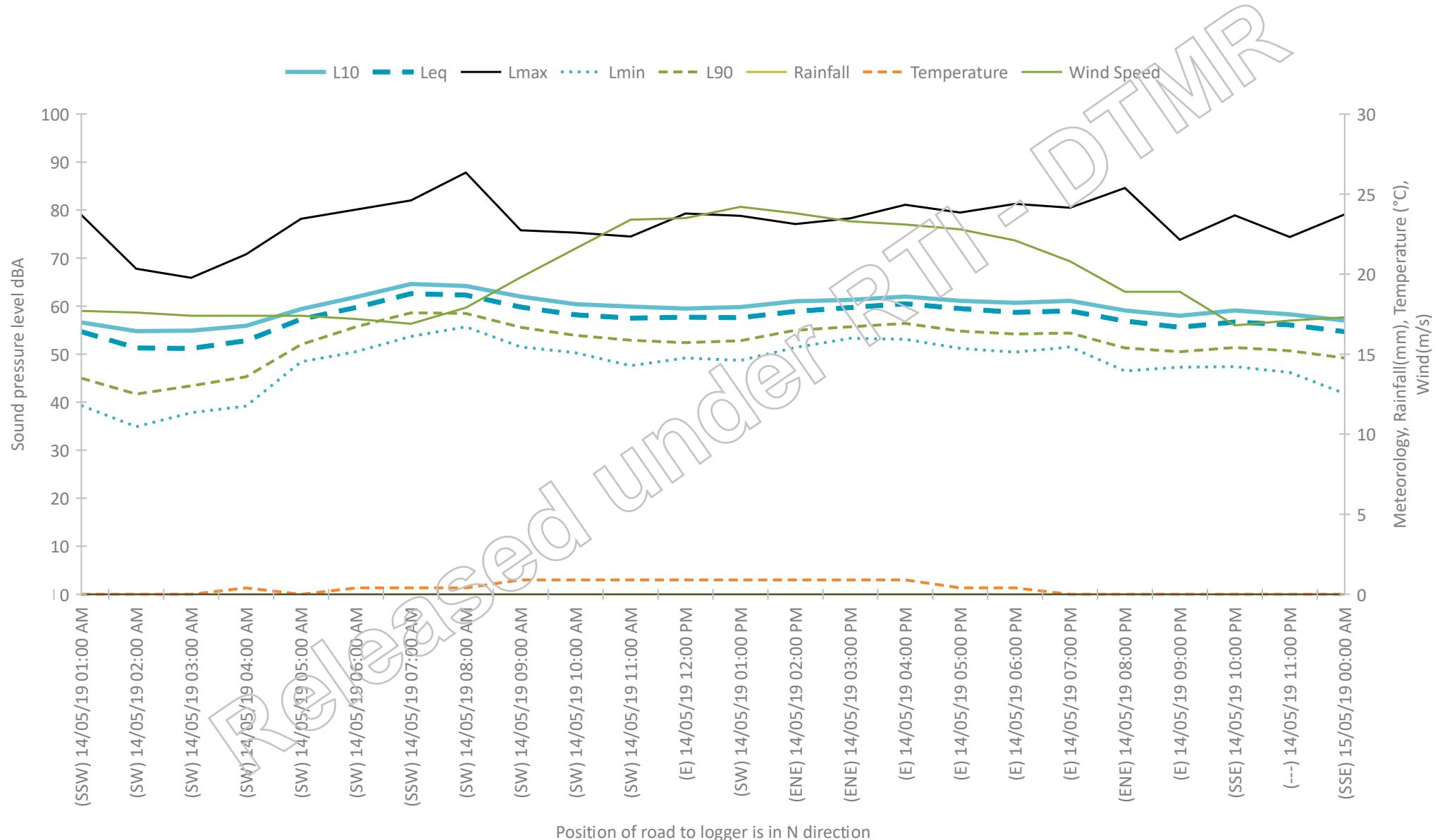


Position of road to logger is in N direction

Address	9 Holroyd Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.5</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	58.3 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	58.9 dBA	
State Road	Gateway Motorway	Distance	148 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	61.4 dBA	
Instrument type	Ngara	Microphone height	3 m	LA90 (8 hour)	47.9 dBA	
Instrument serial no	8781CD	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.1 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 62.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	54.7	79.0	66.7	56.6	49.5	45.0	39.3	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	51.3	67.8	59.9	54.8	48.2	41.7	34.9	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	51.2	65.9	59.7	54.9	47.8	43.4	37.8	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	52.8	70.8	60.1	55.9	50.3	45.3	39.2	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	57.3	78.2	64.9	59.4	55.8	52.0	48.4	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	59.7	80.1	64.1	61.9	59.1	55.7	50.5	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	62.6	82.0	70.3	64.6	61.1	58.6	53.7	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	62.3	87.8	68.6	64.2	60.9	58.5	55.7	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	59.8	75.8	66.9	62.0	58.1	55.6	51.5	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	58.2	75.3	65.2	60.4	56.7	53.9	50.3	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	57.5	74.5	64.8	59.9	55.9	52.9	47.6	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	57.7	79.3	66.1	59.5	55.4	52.4	49.2	0.0	23.5	E	0.9
Tue 14/05/19	13:00	57.6	78.8	65.6	59.8	55.8	52.8	48.7	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	58.9	77.1	65.9	61.0	57.8	55.0	51.4	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	59.7	78.3	67.4	61.3	58.0	55.7	53.3	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	60.5	81.1	67.9	62.0	58.5	56.4	53.1	0.0	23.1	E	0.9
Tue 14/05/19	17:00	59.5	79.5	68.9	61.1	57.2	54.8	51.2	0.0	22.8	E	0.4
Tue 14/05/19	18:00	58.7	81.3	67.2	60.7	56.8	54.2	50.4	0.0	22.1	E	0.4
Tue 14/05/19	19:00	59.0	80.5	67.9	61.1	56.9	54.4	51.5	0.0	20.8	E	0.0
Tue 14/05/19	20:00	56.9	84.6	64.6	59.1	54.8	51.3	46.5	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	55.6	73.8	63.1	58.0	53.9	50.5	47.3	0.0	18.9	E	0.0
Tue 14/05/19	22:00	56.7	78.9	64.1	59.1	54.7	51.4	47.4	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	56.1	74.4	64.9	58.3	53.7	50.7	46.2	0.0	17.1	---	0.0
Wed 15/05/19	0:00	54.7	79.1	63.3	57.0	52.4	49.2	41.8	0.0	17.3	SSE	0.0

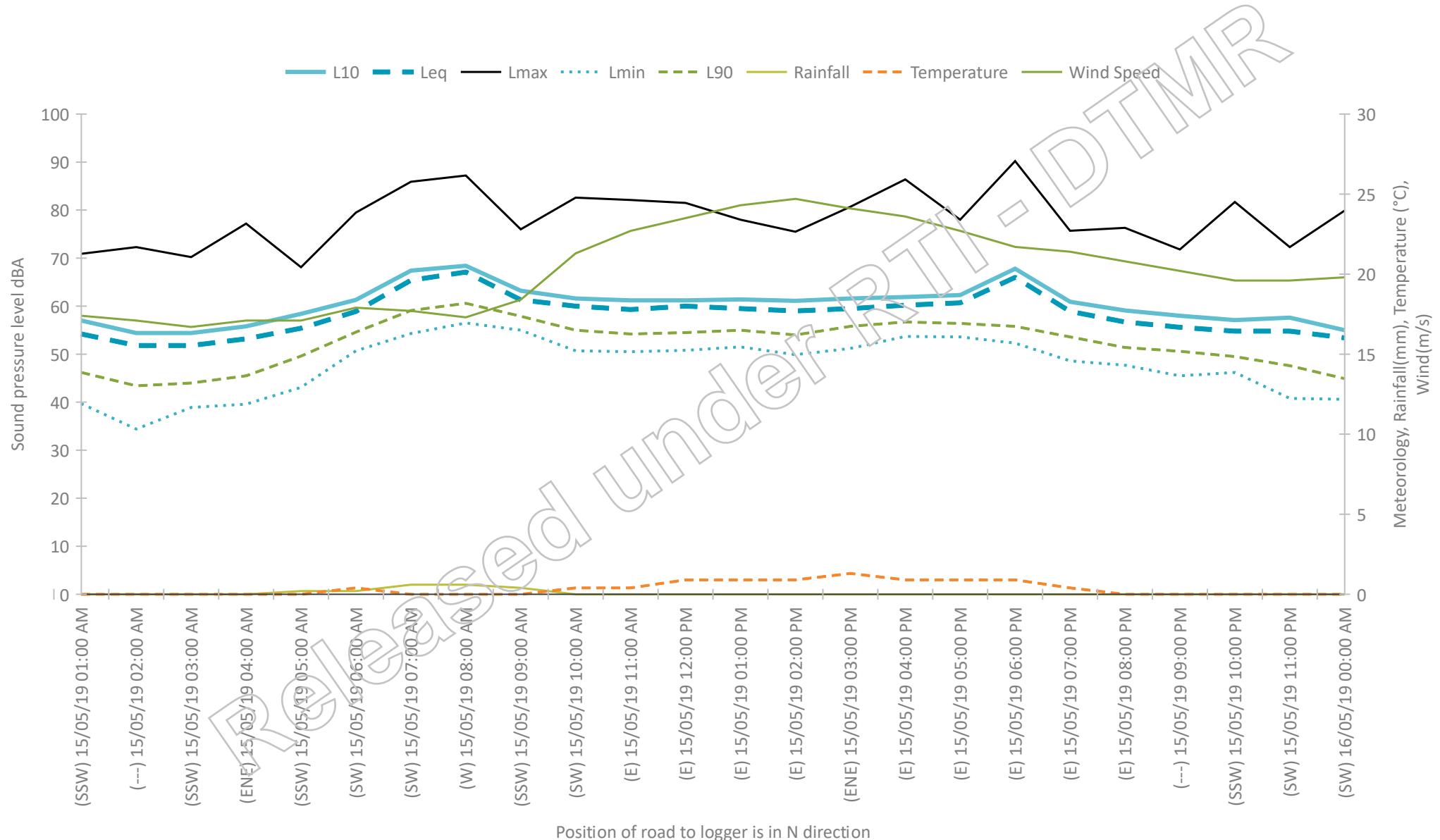
## Project 620.11007.00500 Version 1.0 9 Holroyd Road BOONDALL 14/05/2019



Address	9 Holroyd Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.5</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.3 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	68.7 dBA	
State Road	Gateway Motorway	Distance	148 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.3 dBA	
Instrument type	Ngara	Microphone height	3 m	LA90 (8 hour)	46.4 dBA	
Instrument serial no	8781CD	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.3 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 63.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	54.2	70.9	64.4	57.0	50.8	46.2	39.7	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	51.8	72.3	60.9	54.4	48.2	43.4	34.4	0.0	17.1	---	0.0
Wed 15/05/19	3:00	51.8	70.2	59.5	54.4	49.3	44.0	38.9	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	53.2	77.2	61.8	55.8	50.3	45.5	39.6	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	55.4	68.1	62.9	58.4	53.6	49.6	43.1	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	58.9	79.5	64.6	61.3	57.8	54.6	50.7	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	65.4	85.9	75.5	67.4	62.4	59.1	54.3	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	67.1	87.2	78.4	68.4	63.0	60.6	56.5	0.6	17.3	W	0.0
Wed 15/05/19	9:00	61.3	76.0	67.2	63.2	60.3	57.9	55.0	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	60.0	82.6	68.3	61.6	57.9	55.0	50.7	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	59.3	82.1	67.6	61.2	57.2	54.2	50.5	0.0	22.7	E	0.4
Wed 15/05/19	12:00	60.0	81.5	68.5	61.2	57.5	54.5	50.8	0.0	23.5	E	0.9
Wed 15/05/19	13:00	59.5	78.0	67.5	61.4	57.7	55.0	51.5	0.0	24.3	E	0.9
Wed 15/05/19	14:00	59.0	75.5	68.2	61.1	56.9	54.0	49.9	0.0	24.7	E	0.9
Wed 15/05/19	15:00	59.5	80.7	65.7	61.6	58.3	55.8	51.2	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	60.2	86.4	67.6	61.9	58.8	56.7	53.7	0.0	23.6	E	0.9
Wed 15/05/19	17:00	60.7	78.0	69.6	62.3	58.5	56.4	53.6	0.0	22.7	E	0.9
Wed 15/05/19	18:00	66.0	90.2	78.1	67.8	58.7	55.8	52.3	0.0	21.7	E	0.9
Wed 15/05/19	19:00	58.9	75.7	68.4	60.9	56.5	53.6	48.6	0.0	21.4	E	0.4
Wed 15/05/19	20:00	56.7	76.3	65.4	59.1	54.1	51.4	47.7	0.0	20.8	E	0.0
Wed 15/05/19	21:00	55.6	71.8	63.8	58.0	53.5	50.6	45.5	0.0	20.2	---	0.0
Wed 15/05/19	22:00	54.8	81.7	62.3	57.1	52.4	49.5	46.2	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	54.8	72.3	63.3	57.6	52.6	47.6	40.8	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	53.4	79.9	64.2	55.0	49.2	44.9	40.6	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 9 Holroyd Road BOONDALL 15/05/2019



N/R

# Site 4 - 21/63 Sean St, Boondall

DTMR

The noise measurement data at 63 Sean Street was collected in a free field location requiring a 2.5 dBA addition to calculate the façade corrected noise levels. The free field measured noise levels are shown in Table 16.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 9/05/2019 to 16/05/2019 respectively.

**Table 16: Measured road traffic noise levels at 63 Sean Street BOONDALL 4034**

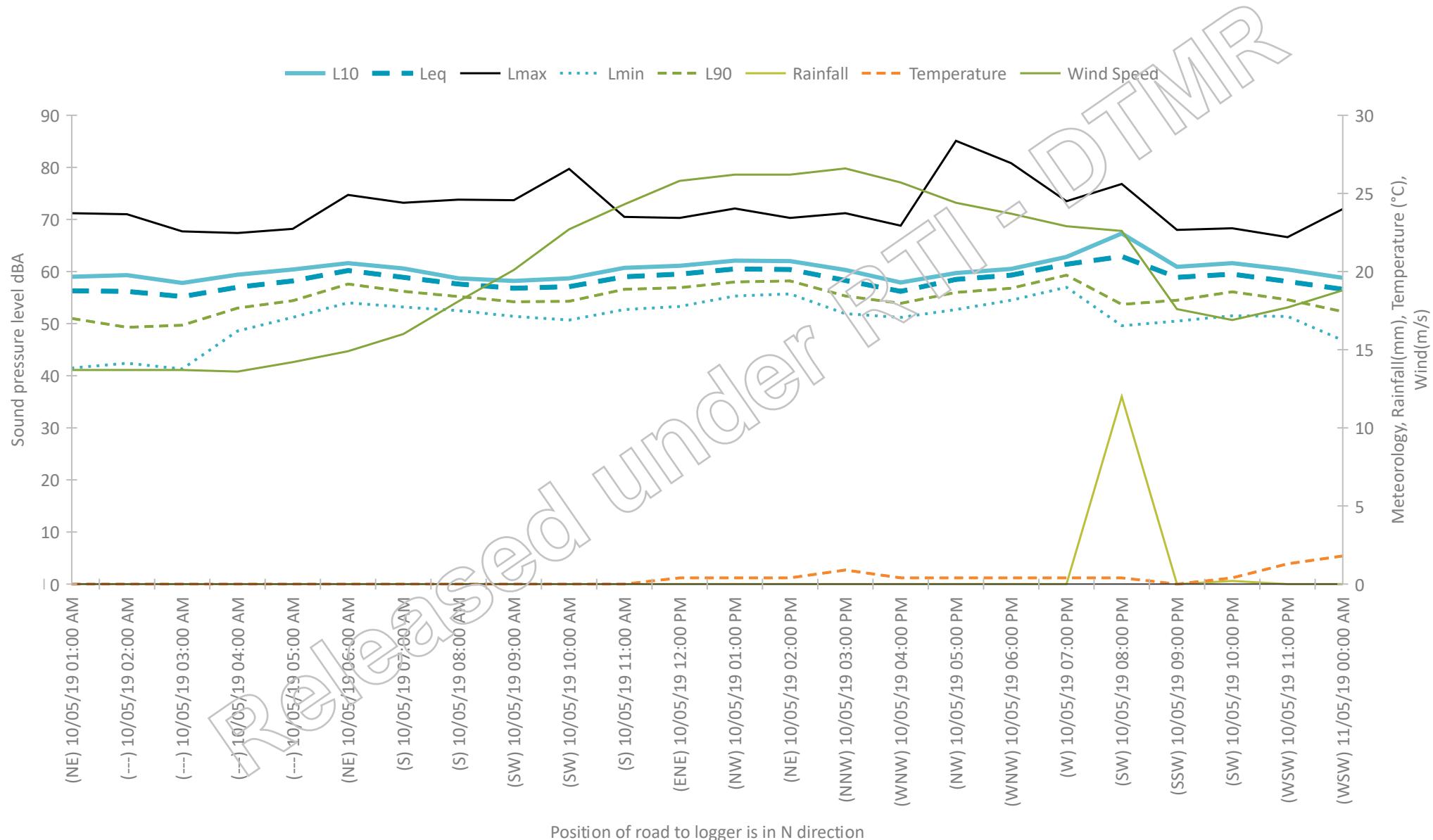
	Free field LA10 (18hr) dBA	Facade corrected LA10 (18hr) dBA +2.5dB
Friday 10/05/19	60.7	63.2
Monday 13/05/19	58.6	61.1
Tuesday 14/05/19	57.4	59.9
Wednesday 15/05/19	57.7	60.2

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	63 Sean Street		AADT	74217	<b>LA10 (18 hour)</b>	<b>60.7</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	58.8	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	58.1	dBA	
State Road	Gateway Motorway		Distance	202 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	60.0	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	4.6 m	LA90 (8 hour)	50.7	dBA
Instrument serial no	8780a6	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	54.9	dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 62.2 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	56.3	71.2	61.4	59.0	55.3	51.0	41.5	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	56.2	71.0	63.0	59.3	54.5	49.3	42.4	0.0	13.7	---	0.0
Fri 10/05/19	3:00	55.2	67.7	60.6	57.8	54.4	49.7	41.3	0.0	13.7	---	0.0
Fri 10/05/19	4:00	57.0	67.4	61.5	59.4	56.4	53.0	48.6	0.0	13.6	---	0.0
Fri 10/05/19	5:00	58.2	68.2	62.6	60.4	57.5	54.4	51.2	0.0	14.2	---	0.0
Fri 10/05/19	6:00	60.2	74.7	63.9	61.6	59.8	57.6	54.0	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	58.9	73.2	62.6	60.6	58.2	56.2	53.2	0.0	16.0	S	0.0
Fri 10/05/19	8:00	57.6	73.8	62.7	58.7	56.9	55.2	52.5	0.0	18.1	S	0.0
Fri 10/05/19	9:00	56.8	73.7	61.0	58.2	56.2	54.2	51.4	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	57.1	79.7	60.7	58.7	56.5	54.3	50.7	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	59.0	70.5	62.5	60.7	58.5	56.6	52.7	0.0	24.3	S	0.0
Fri 10/05/19	12:00	59.5	70.3	63.0	61.1	59.0	56.9	53.3	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	60.5	72.1	64.6	62.1	59.9	58.0	55.3	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	60.4	70.3	64.1	62.0	59.9	58.2	55.7	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	58.3	71.2	62.8	60.3	57.6	55.3	51.9	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	56.2	68.8	60.3	57.9	55.7	53.9	51.2	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	58.5	85.1	62.7	59.7	57.5	56.0	52.7	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	59.3	80.8	65.0	60.5	58.4	56.8	54.5	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	61.4	73.5	65.0	62.8	61.0	59.3	57.0	0.0	22.9	W	0.4
Fri 10/05/19	20:00	62.9	76.8	71.2	67.3	58.9	53.7	49.6	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	58.9	68.0	63.5	60.9	58.4	54.5	50.5	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	59.5	68.3	64.0	61.6	58.9	56.1	51.5	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	58.1	66.6	62.6	60.4	57.3	54.6	51.4	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	56.6	72.0	62.8	58.8	55.4	52.3	46.8	0.0	18.8	WSW	1.8

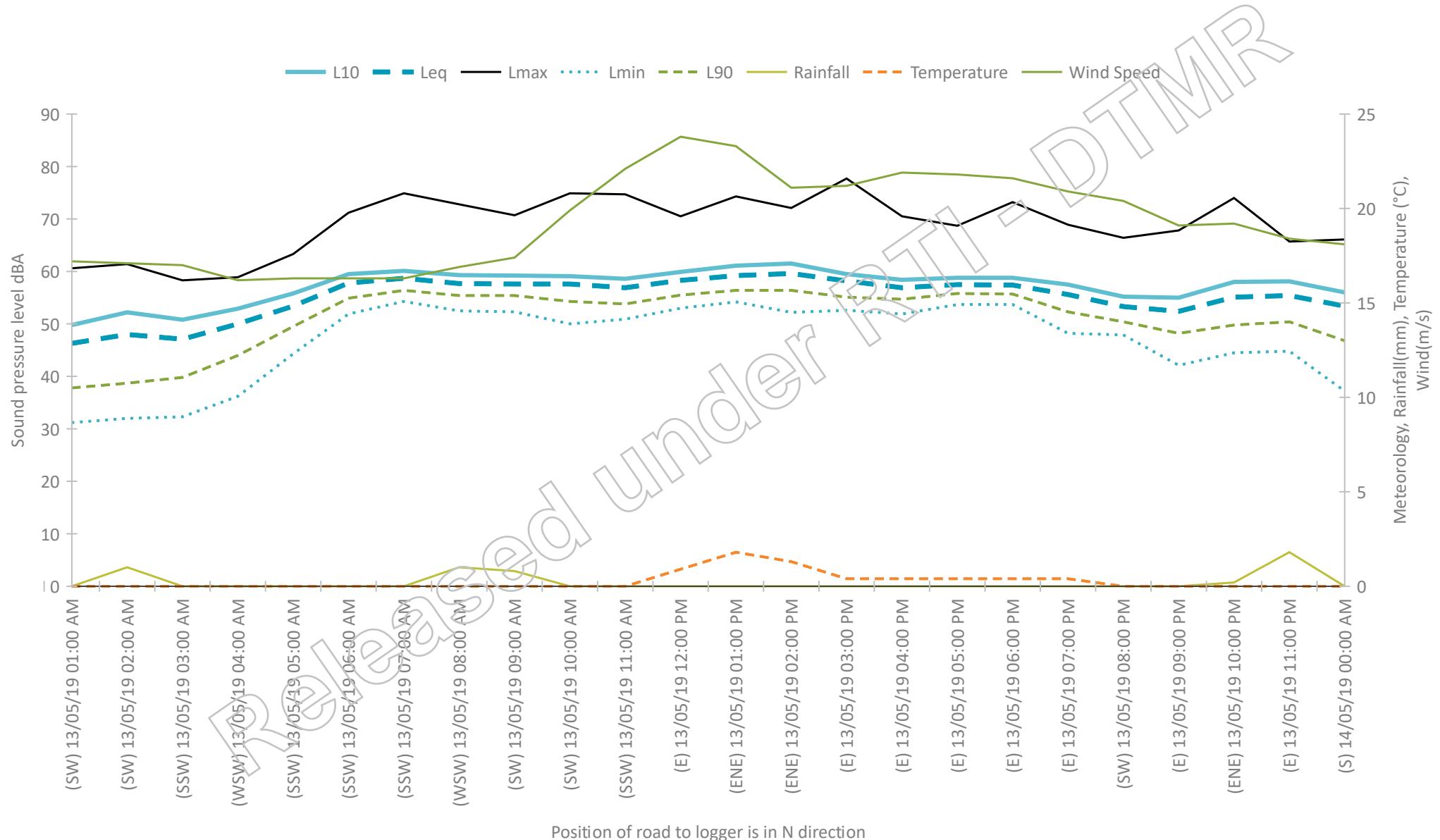
## Project 620.11007.00500 Version 1.0 63 Sean Street BOONDALL 10/05/2019



Address	63 Sean Street		AADT	74217	<b>LA10 (18 hour)</b>	<b>58.6</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	56.4 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	56.1 dBA	
State Road	Gateway Motorway		Distance	202 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	59.5 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	4.6 m	LA90 (8 hour)	46.0 dBA
Instrument serial no	8780a6	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.1 dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 60.1 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	46.3	60.6	55.2	49.8	43.3	37.8	31.2	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	48.0	61.4	55.8	52.2	44.7	38.7	32.0	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	47.1	58.3	54.6	50.8	44.7	39.8	32.3	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	50.0	58.9	56.4	52.9	48.8	44.0	36.2	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	53.4	63.3	57.9	55.8	52.5	49.5	44.3	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	57.8	71.2	62.3	59.5	57.2	54.9	51.9	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	58.7	74.9	62.3	60.1	58.1	56.4	54.3	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	57.7	72.8	61.7	59.3	57.1	55.4	52.5	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	57.6	70.7	60.7	59.2	57.2	55.4	52.3	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	57.6	74.9	62.9	59.1	56.7	54.3	50.0	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	56.9	74.7	61.6	58.6	56.2	53.8	50.9	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	58.3	70.5	62.5	59.9	57.7	55.5	53.0	0.0	23.8	E	0.9
Mon 13/05/19	13:00	59.2	74.3	63.8	61.1	58.5	56.4	54.2	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	59.6	72.1	63.7	61.5	59.1	56.4	52.2	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	58.2	77.7	64.2	59.5	57.2	55.1	52.6	0.0	21.2	E	0.4
Mon 13/05/19	16:00	56.9	70.5	60.6	58.4	56.4	54.7	51.9	0.0	21.9	E	0.4
Mon 13/05/19	17:00	57.5	68.7	61.3	58.8	57.0	55.8	53.7	0.0	21.8	E	0.4
Mon 13/05/19	18:00	57.4	73.2	60.4	58.8	57.0	55.7	53.7	0.0	21.6	E	0.4
Mon 13/05/19	19:00	55.6	68.9	59.7	57.5	55.1	52.3	48.2	0.0	20.9	E	0.4
Mon 13/05/19	20:00	53.3	66.4	58.2	55.2	52.5	50.4	47.9	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	52.4	67.8	57.9	55.0	51.2	48.2	42.1	0.0	19.1	E	0.0
Mon 13/05/19	22:00	55.1	74.0	61.0	58.0	53.8	49.8	44.5	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	55.4	65.7	61.5	58.1	54.1	50.4	44.8	1.8	18.4	E	0.0
Tue 14/05/19	0:00	53.4	66.1	60.3	56.0	52.1	46.8	37.2	0.0	18.1	S	0.0

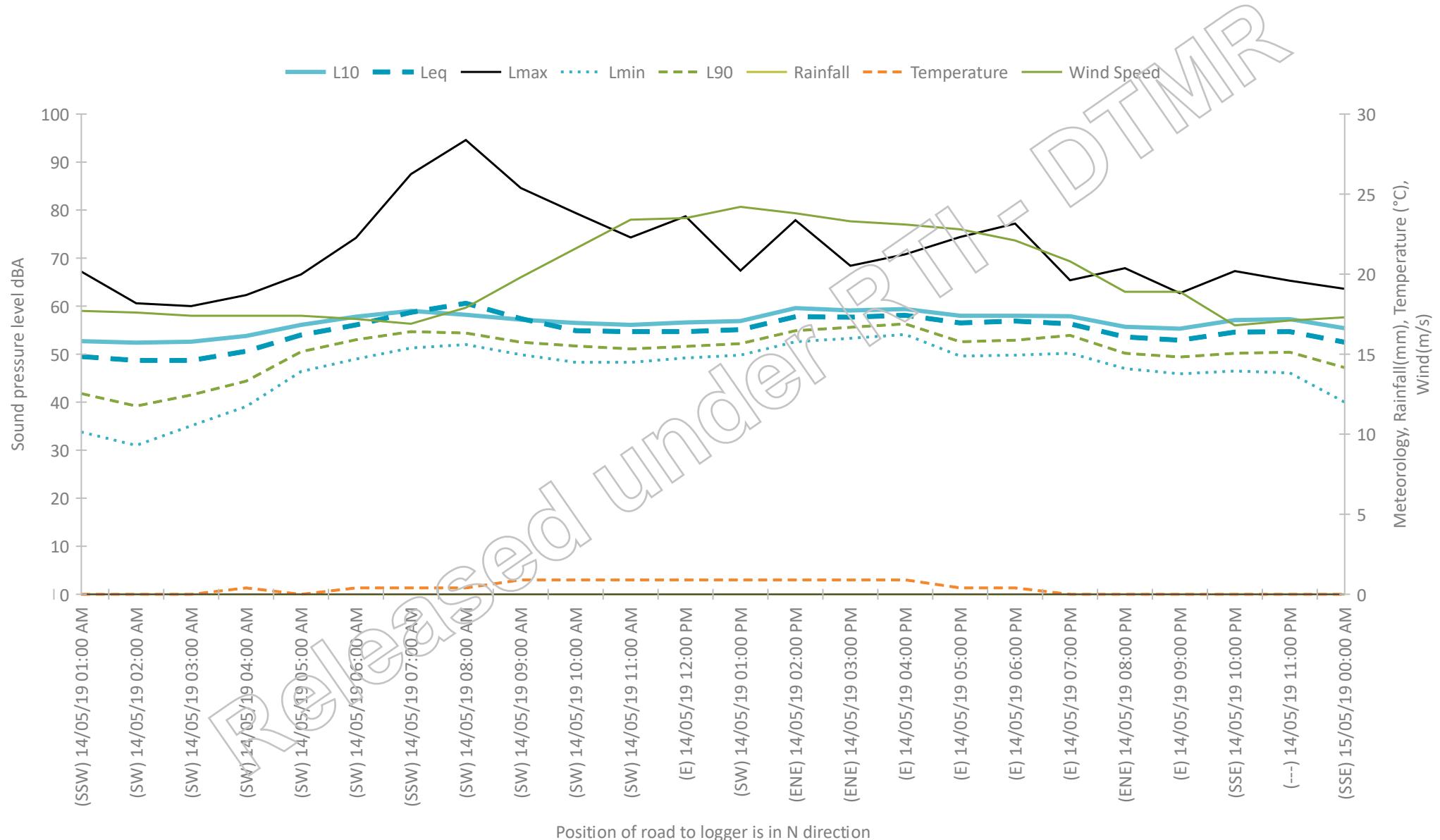
## Project 620.11007.00500 Version 1.0 63 Sean Street BOONDALL 13/05/2019



Address	63 Sean Street		AADT	74217	<b>LA10 (18 hour)</b>	<b>57.4</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	55.8 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	55.2 dBA	
State Road	Gateway Motorway		Distance	202 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	57.9 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	4.6 m	LA90 (8 hour)	46.2 dBA
Instrument serial no	8780a6	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	50.5 dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 58.9 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	49.5	67.2	57.6	52.7	46.8	41.8	33.8	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	48.7	60.6	56.5	52.4	46.3	39.2	31.0	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	48.7	60.0	56.2	52.6	46.1	41.5	35.1	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	50.6	62.3	56.5	53.8	49.1	44.4	39.1	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	54.0	66.6	59.0	56.1	53.1	50.5	46.4	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	56.1	74.2	60.2	57.8	55.4	53.0	49.0	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	58.7	87.5	63.5	59.0	56.8	54.7	51.3	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	60.6	94.6	65.8	58.2	56.1	54.4	52.0	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	57.4	84.6	65.0	57.2	54.5	52.5	49.9	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	54.9	79.4	59.2	56.5	54.0	51.7	48.3	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	54.7	74.3	59.7	56.1	53.6	51.1	48.3	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	54.7	78.7	59.7	56.6	53.8	51.6	49.2	0.0	23.5	E	0.9
Tue 14/05/19	13:00	55.1	67.4	59.4	56.9	54.6	52.2	49.8	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	57.8	77.9	62.0	59.6	57.2	54.9	52.6	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	57.7	68.4	61.2	59.1	57.3	55.6	53.3	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	58.1	70.8	61.7	59.4	57.8	56.3	54.1	0.0	23.1	E	0.9
Tue 14/05/19	17:00	56.5	74.4	61.1	58.0	56.0	52.6	49.6	0.0	22.8	E	0.4
Tue 14/05/19	18:00	56.9	77.2	65.5	58.0	55.2	52.9	49.8	0.0	22.1	E	0.4
Tue 14/05/19	19:00	56.3	65.4	60.8	57.9	55.8	53.9	50.2	0.0	20.8	E	0.0
Tue 14/05/19	20:00	53.6	67.9	58.7	55.7	52.6	50.2	47.0	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	52.9	62.7	58.0	55.3	51.8	49.4	45.9	0.0	18.9	E	0.0
Tue 14/05/19	22:00	54.6	67.3	61.0	57.1	53.3	50.2	46.5	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	54.7	65.3	60.6	57.3	53.3	50.4	46.1	0.0	17.1	---	0.0
Wed 15/05/19	0:00	52.5	63.6	58.9	55.4	51.1	47.2	40.0	0.0	17.3	SSE	0.0

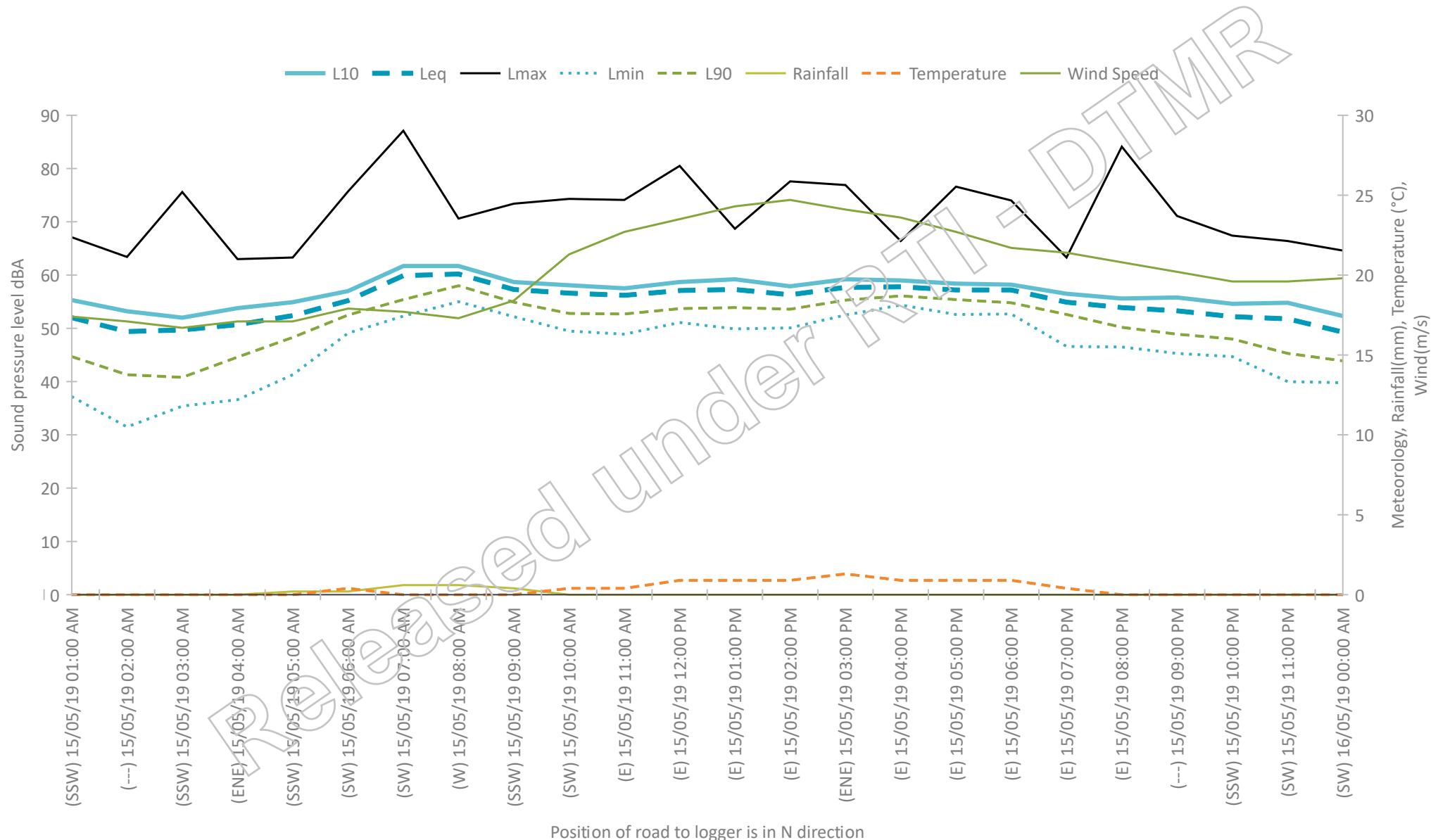
## Project 620.11007.00500 Version 1.0 63 Sean Street BOONDALL 14/05/2019



Address	63 Sean Street		AADT	74217	<b>LA10 (18 hour)</b>	<b>57.7</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	55.9 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	56.2 dBA	
State Road	Gateway Motorway		Distance	202 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	59.0 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	4.6 m	LA90 (8 hour)	44.7 dBA
Instrument serial no	8780a6	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	50.7 dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 59.2 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	52.0	67.1	59.0	55.3	50.1	44.7	37.2	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	49.4	63.4	57.2	53.2	46.8	41.3	31.5	0.0	17.1	---	0.0
Wed 15/05/19	3:00	49.7	75.6	55.8	52.0	46.4	40.8	35.4	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	50.7	63.0	57.3	53.8	48.9	44.6	36.6	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	52.4	63.3	57.5	54.9	51.5	48.3	41.3	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	55.2	75.7	58.8	57.0	54.7	52.5	49.1	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	59.9	87.1	63.5	61.7	58.7	55.4	52.3	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	60.2	70.6	63.0	61.7	59.9	58.0	55.0	0.6	17.3	W	0.0
Wed 15/05/19	9:00	57.3	73.4	60.7	58.7	56.8	54.9	52.2	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	56.6	74.3	64.1	58.1	55.4	52.8	49.5	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	56.2	74.1	62.8	57.5	54.9	52.7	48.9	0.0	22.7	E	0.4
Wed 15/05/19	12:00	57.1	80.5	64.0	58.7	55.8	53.7	51.1	0.0	23.5	E	0.9
Wed 15/05/19	13:00	57.3	68.7	62.7	59.2	56.5	53.9	49.9	0.0	24.3	E	0.9
Wed 15/05/19	14:00	56.3	77.6	61.2	57.9	55.5	53.6	50.1	0.0	24.7	E	0.9
Wed 15/05/19	15:00	57.7	76.9	61.3	59.2	57.1	55.3	52.5	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	57.8	66.4	60.8	59.0	57.5	56.1	54.4	0.0	23.6	E	0.9
Wed 15/05/19	17:00	57.2	76.6	61.1	58.4	56.7	55.4	52.6	0.0	22.7	E	0.9
Wed 15/05/19	18:00	57.2	74.0	63.1	58.2	56.3	54.8	52.7	0.0	21.7	E	0.9
Wed 15/05/19	19:00	54.9	63.3	58.8	56.5	54.5	52.6	46.6	0.0	21.4	E	0.4
Wed 15/05/19	20:00	53.9	84.1	58.9	55.6	52.4	50.2	46.5	0.0	20.8	E	0.0
Wed 15/05/19	21:00	53.3	71.1	59.4	55.8	51.7	48.9	45.3	0.0	20.2	---	0.0
Wed 15/05/19	22:00	52.2	67.4	60.0	54.6	50.5	48.0	44.7	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	51.8	66.4	58.2	54.8	50.1	45.3	40.0	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	49.3	64.6	56.3	52.3	47.6	43.9	39.8	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 63 Sean Street BOONDALL 15/05/2019



Released under RTI - DTMR

N/R

# Site 5- 16 Egret Place, Taigum

The noise measurement data at 16 Egret Place TAIGUM was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 17.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 9/05/2019 to 16/05/2019 respectively.

The noise measurement data at 16 Egret Place TAIGUM was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 1.

**Table 17: Measured road traffic noise levels at 16 Egret Place TAIGUM 4018**

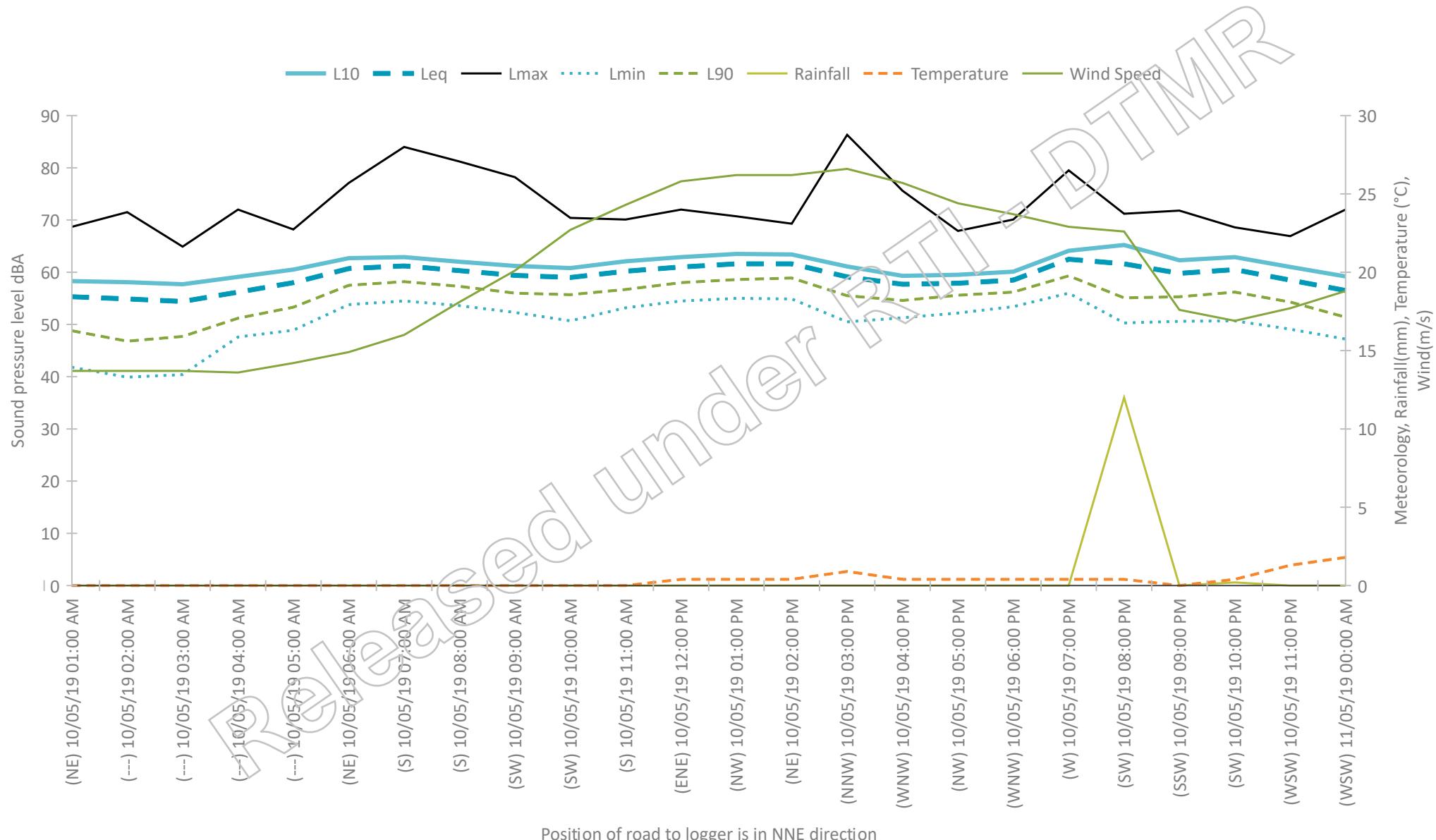
Facade corrected LA10 (18hr) dBA	
Friday 10/05/19	61.9
Monday 13/05/19	61.4
Tuesday 14/05/19	60.2
Wednesday 15/05/19	60.6

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	16 Egret Place	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.9</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.5 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	58.5 dBA
State Road	Gateway Motorway	Distance	37 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	61.6 dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	49.4 dBA
Instrument serial no	878053	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	54.9 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	63.4 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	55.3	68.7	62.2	58.3	53.6	48.8	41.8	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	54.9	71.5	63.4	58.1	52.1	46.8	39.9	0.0	13.7	---	0.0
Fri 10/05/19	3:00	54.4	64.9	60.8	57.7	52.8	47.7	40.4	0.0	13.7	---	0.0
Fri 10/05/19	4:00	56.2	72.0	62.2	59.1	54.7	51.2	47.6	0.0	13.6	---	0.0
Fri 10/05/19	5:00	58.0	68.2	63.3	60.5	57.0	53.3	48.9	0.0	14.2	---	0.0
Fri 10/05/19	6:00	60.7	77.1	64.6	62.7	60.0	57.5	53.8	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	61.2	84.0	65.4	62.9	60.5	58.2	54.5	0.0	16.0	S	0.0
Fri 10/05/19	8:00	60.3	81.2	65.1	62.0	59.6	57.3	53.6	0.0	18.1	S	0.0
Fri 10/05/19	9:00	59.4	78.2	64.0	61.2	58.5	56.0	52.3	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	59.0	70.4	63.5	60.8	58.3	55.7	50.7	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	60.2	70.1	64.5	62.1	59.7	56.7	53.2	0.0	24.3	S	0.0
Fri 10/05/19	12:00	61.0	72.0	65.1	62.9	60.4	58.0	54.5	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	61.6	70.7	66.1	63.5	60.9	58.6	55.0	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	61.6	69.3	65.5	63.4	61.1	58.9	54.9	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	59.1	86.3	64.3	61.1	57.9	55.5	50.5	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	57.7	75.6	62.5	59.3	56.8	54.6	51.3	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	57.9	67.9	61.6	59.5	57.4	55.6	52.2	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	58.5	70.1	62.7	60.1	57.9	56.2	53.4	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	62.5	79.5	68.2	64.1	61.7	59.3	56.0	0.0	22.9	W	0.4
Fri 10/05/19	20:00	61.6	71.2	68.6	65.2	59.5	55.1	50.3	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	59.8	71.8	65.5	62.3	58.8	55.3	50.6	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	60.5	68.6	65.7	62.9	59.7	56.2	50.7	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	58.5	66.9	63.3	61.0	57.5	54.3	49.1	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	56.5	72.0	62.9	59.2	55.1	51.4	47.2	0.0	18.8	WSW	1.8

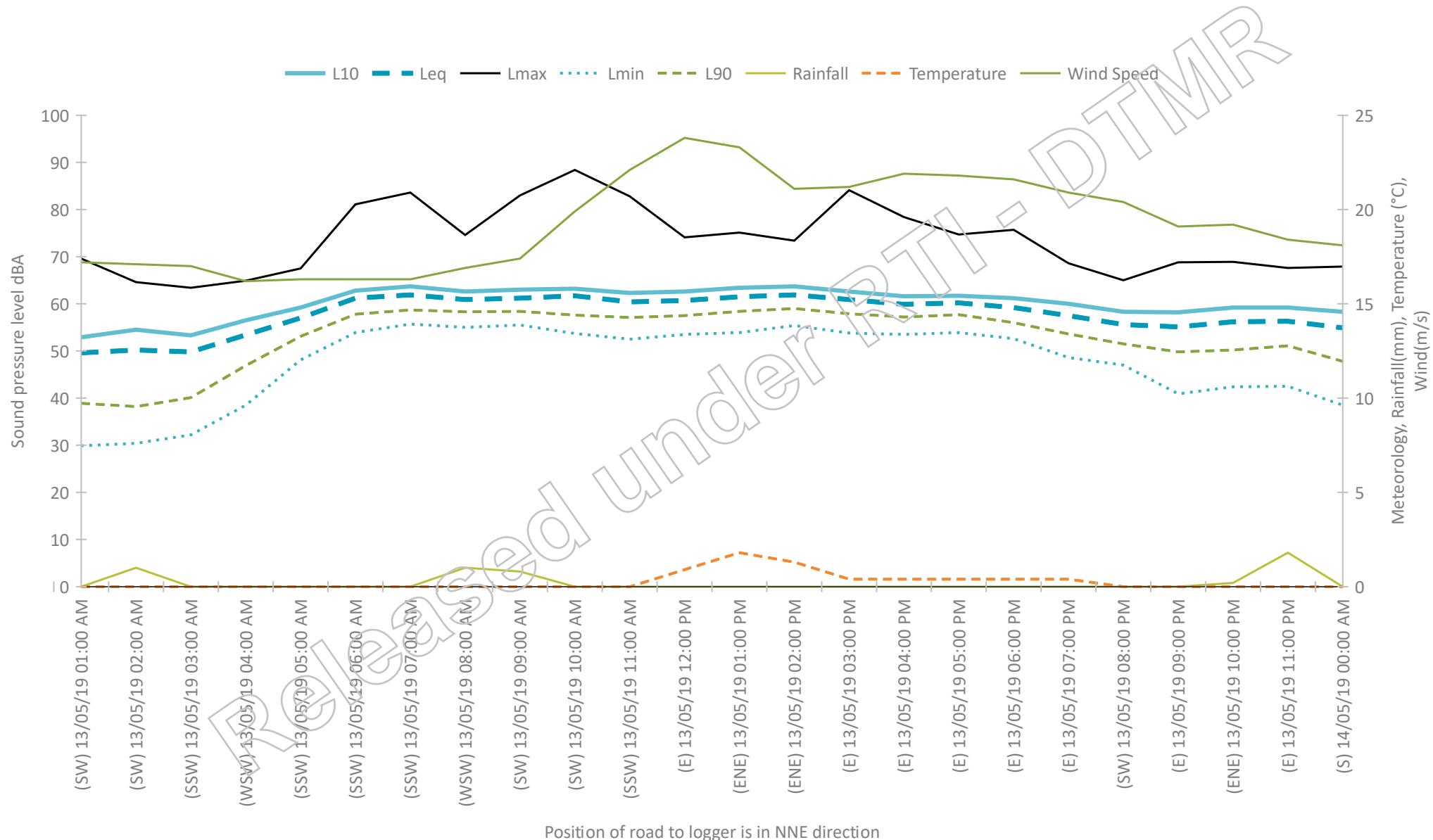
## Project 620.11007.00500 Version 1.0 16 Egret Place TAIGUM 10/05/2019



Address	16 Egret Place	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.4</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.1 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	59.5 dBA	
State Road	Gateway Motorway	Distance	37 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.6 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	47.8 dBA	
Instrument serial no	878053	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	53.0 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 62.9 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	49.6	69.6	58.6	52.9	45.8	38.9	29.9	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	50.2	64.6	59.1	54.5	45.8	38.2	30.4	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	49.8	63.4	58.3	53.3	47.0	40.1	32.2	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	53.4	64.9	60.2	56.5	51.9	46.9	38.5	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	57.0	67.5	62.1	59.2	56.2	53.1	48.1	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	61.2	81.1	65.6	62.8	60.4	57.8	53.9	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	61.9	83.6	66.5	63.7	61.0	58.7	55.7	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	60.9	74.6	64.9	62.6	60.3	58.3	55.0	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	61.2	83.0	65.6	63.0	60.5	58.4	55.5	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	61.7	88.4	66.9	63.2	60.3	57.6	53.7	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	60.4	82.8	65.1	62.3	59.6	57.1	52.5	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	60.7	74.1	65.0	62.6	60.0	57.5	53.5	0.0	23.8	E	0.9
Mon 13/05/19	13:00	61.5	75.1	65.7	63.4	61.0	58.4	53.9	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	61.9	73.4	65.6	63.7	61.4	59.0	55.4	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	60.9	84.1	65.4	62.6	60.1	57.9	53.8	0.0	21.2	E	0.4
Mon 13/05/19	16:00	59.9	78.4	64.2	61.6	59.3	57.2	53.5	0.0	21.9	E	0.4
Mon 13/05/19	17:00	60.2	74.7	64.0	61.7	59.7	57.7	53.9	0.0	21.8	E	0.4
Mon 13/05/19	18:00	59.2	75.7	63.6	61.2	58.6	56.0	52.6	0.0	21.6	E	0.4
Mon 13/05/19	19:00	57.5	68.6	62.4	60.0	56.7	53.6	48.6	0.0	20.9	E	0.4
Mon 13/05/19	20:00	55.6	65.0	61.4	58.3	54.3	51.5	47.0	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	55.1	68.8	61.8	58.2	53.1	49.8	40.9	0.0	19.1	E	0.0
Mon 13/05/19	22:00	56.2	68.9	62.3	59.2	54.8	50.2	42.4	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	56.3	67.6	62.4	59.2	54.9	51.1	42.5	1.8	18.4	E	0.0
Tue 14/05/19	0:00	54.9	67.9	61.8	58.3	53.1	47.8	38.5	0.0	18.1	S	0.0

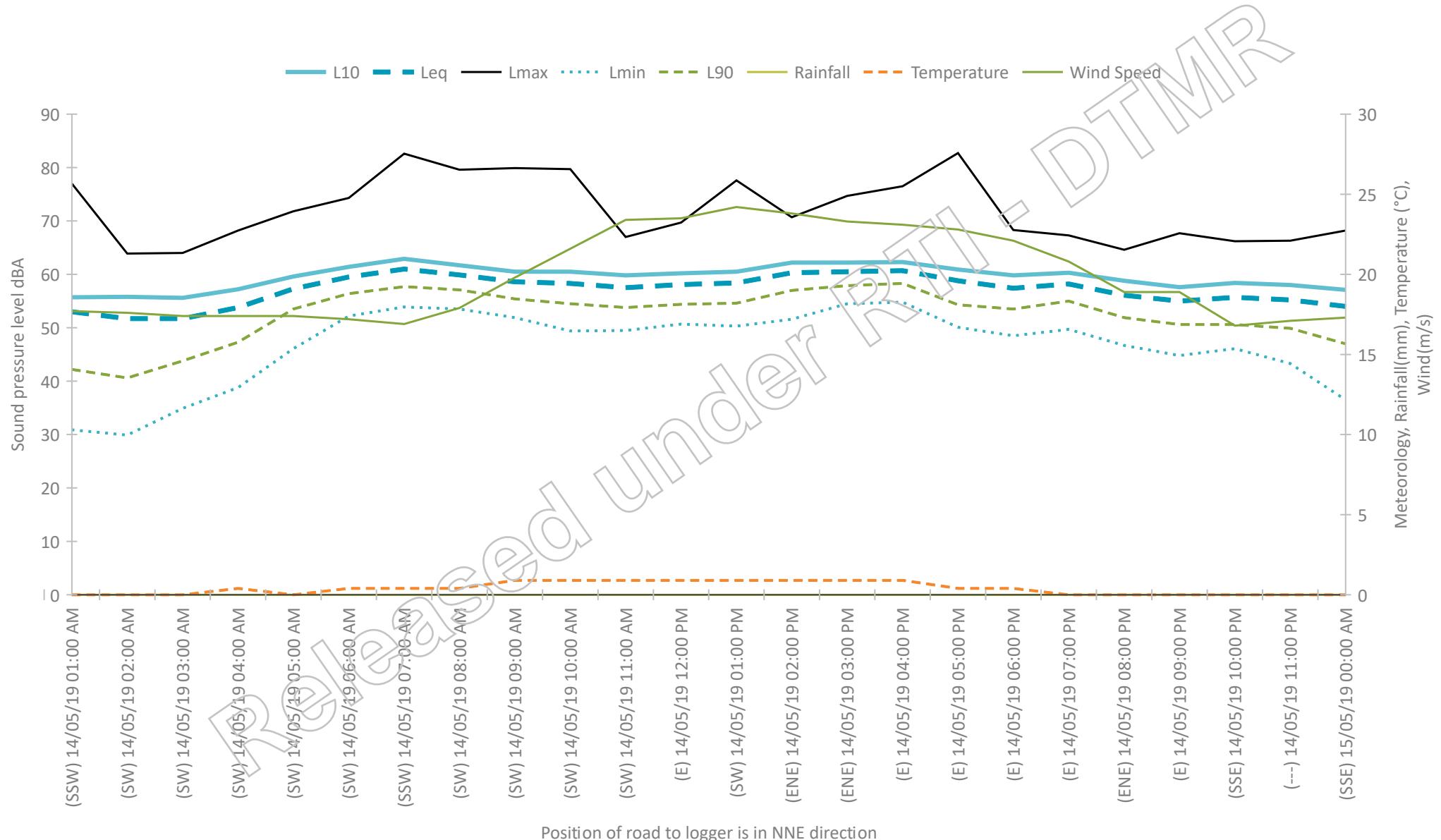
## Project 620.11007.00500 Version 1.0 16 Egret Place TAIGUM 13/05/2019



Address	16 Egret Place	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.2</b>	dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	57.9	dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	58.8	dBA	
State Road	Gateway Motorway	Distance	37 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	61.1	dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	47.0	dBA	
Instrument serial no	878053	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.4	dBA	
Time scale	60 mins	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 61.7 dBA based on a growth rate of 3.5 %			

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	53.0	77.0	61.5	55.7	49.1	42.2	30.9	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	51.7	63.9	59.7	55.8	48.5	40.6	29.9	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	51.7	64.0	59.5	55.6	49.1	43.8	34.9	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	53.8	68.2	59.9	57.2	52.0	47.3	38.8	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	57.3	71.8	62.0	59.6	56.5	53.5	46.1	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	59.5	74.3	64.0	61.4	58.8	56.4	52.2	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	61.0	82.6	66.1	62.9	60.1	57.7	53.9	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	59.9	79.6	64.6	61.7	59.2	57.1	53.5	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	58.6	79.9	63.6	60.5	57.6	55.4	51.9	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	58.3	79.7	63.5	60.5	57.3	54.5	49.4	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	57.5	67.0	62.3	59.8	56.7	53.8	49.5	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	58.1	69.7	63.2	60.2	57.3	54.4	50.7	0.0	23.5	E	0.9
Tue 14/05/19	13:00	58.4	77.6	63.0	60.5	57.6	54.6	50.3	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	60.3	70.7	64.7	62.2	59.7	57.0	51.6	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	60.5	74.7	64.6	62.2	60.1	57.9	54.5	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	60.7	76.5	64.7	62.3	60.2	58.3	54.8	0.0	23.1	E	0.9
Tue 14/05/19	17:00	58.8	82.7	63.2	60.9	58.1	54.3	50.1	0.0	22.8	E	0.4
Tue 14/05/19	18:00	57.4	68.3	63.0	59.8	56.5	53.5	48.5	0.0	22.1	E	0.4
Tue 14/05/19	19:00	58.2	67.3	62.8	60.3	57.6	55.0	49.7	0.0	20.8	E	0.0
Tue 14/05/19	20:00	56.1	64.6	61.6	58.8	55.1	51.9	46.7	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	55.0	67.7	61.1	57.6	53.8	50.6	44.8	0.0	18.9	E	0.0
Tue 14/05/19	22:00	55.7	66.2	62.5	58.4	54.4	50.6	46.1	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	55.2	66.3	61.5	58.0	53.8	49.9	43.3	0.0	17.1	---	0.0
Wed 15/05/19	0:00	54.0	68.2	61.5	57.1	52.2	47.0	36.5	0.0	17.3	SSE	0.0

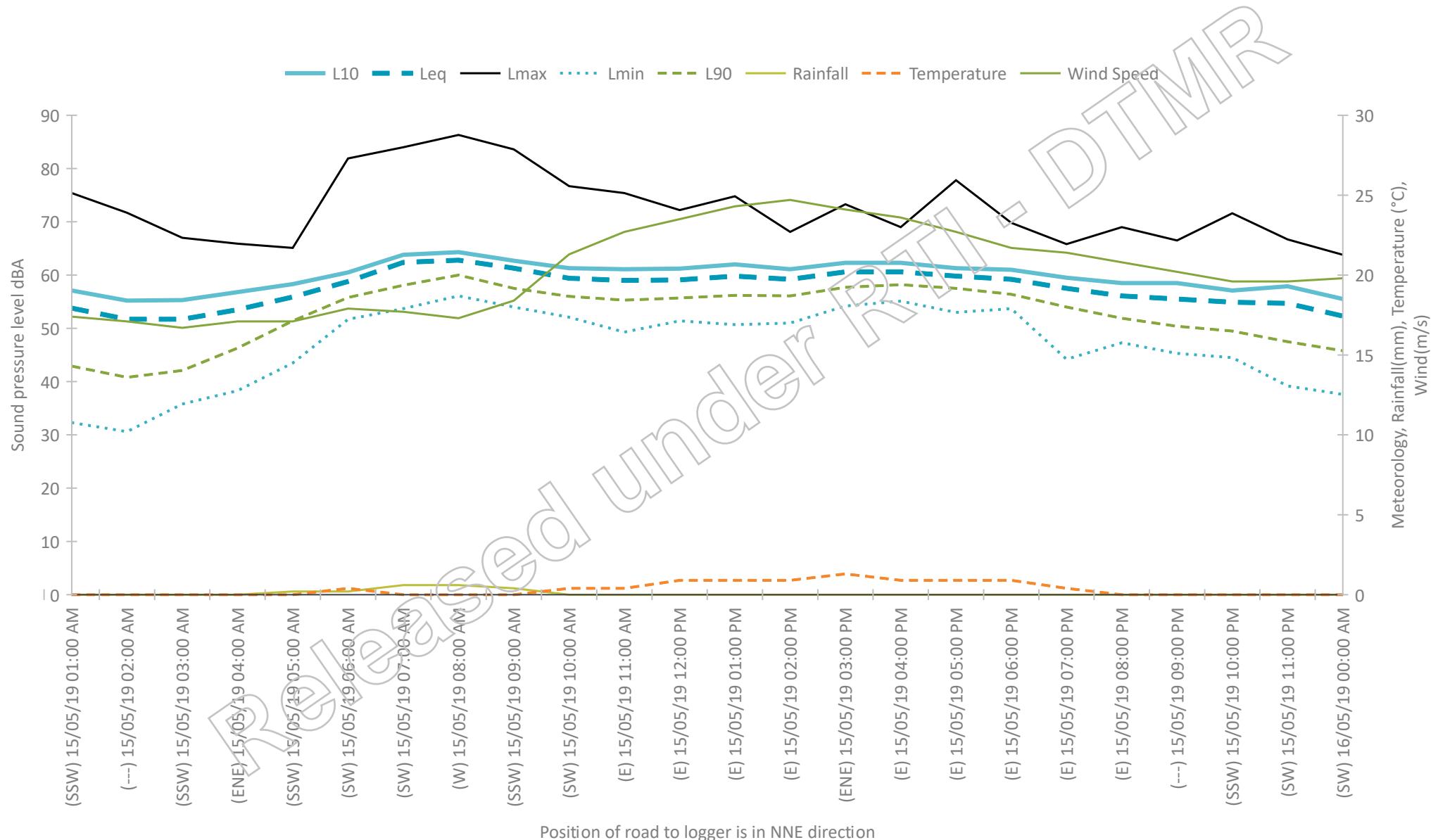
## Project 620.11007.00500 Version 1.0 16 Egret Place TAIGUM 14/05/2019



Address	16 Egret Place		AADT	74217	<b>LA10 (18 hour)</b>	<b>60.6</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	58.6	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	59.2	dBA	
State Road	Gateway Motorway		Distance	37 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	62.0	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	46.1	dBA
Instrument serial no	878053	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.6	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 62.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	53.8	75.4	61.8	57.1	50.6	42.9	32.3	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	51.7	71.7	60.4	55.2	47.8	40.8	30.6	0.0	17.1	---	0.0
Wed 15/05/19	3:00	51.7	67.0	59.9	55.3	48.7	42.1	35.8	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	53.5	65.9	60.5	56.8	51.5	46.3	38.3	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	55.9	65.1	61.3	58.3	55.0	51.4	43.5	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	58.8	81.9	62.6	60.5	58.1	55.8	51.7	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	62.4	84.0	68.1	63.8	61.2	58.1	53.7	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	62.8	86.3	67.5	64.3	62.0	60.0	56.1	0.6	17.3	W	0.0
Wed 15/05/19	9:00	61.3	83.6	68.0	62.7	60.0	57.5	54.0	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	59.4	76.7	64.3	61.3	58.6	56.0	52.1	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	59.0	75.4	65.6	61.1	58.0	55.3	49.3	0.0	22.7	E	0.4
Wed 15/05/19	12:00	59.1	72.2	63.7	61.2	58.5	55.7	51.4	0.0	23.5	E	0.9
Wed 15/05/19	13:00	59.8	74.8	64.2	62.0	59.2	56.2	50.7	0.0	24.3	E	0.9
Wed 15/05/19	14:00	59.2	68.1	63.1	61.1	58.6	56.1	51.0	0.0	24.7	E	0.9
Wed 15/05/19	15:00	60.6	73.3	65.3	62.3	60.0	57.7	54.2	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	60.6	69.0	64.1	62.3	60.2	58.2	55.1	0.0	23.6	E	0.9
Wed 15/05/19	17:00	59.8	77.8	63.0	61.3	59.4	57.5	53.0	0.0	22.7	E	0.9
Wed 15/05/19	18:00	59.2	69.8	63.2	61.0	58.7	56.4	53.7	0.0	21.7	E	0.9
Wed 15/05/19	19:00	57.5	65.8	61.8	59.5	56.9	54.0	44.2	0.0	21.4	E	0.4
Wed 15/05/19	20:00	56.1	69.0	62.1	58.5	54.8	51.9	47.3	0.0	20.8	E	0.0
Wed 15/05/19	21:00	55.5	66.5	61.6	58.5	53.9	50.4	45.3	0.0	20.2	---	0.0
Wed 15/05/19	22:00	54.9	71.6	63.1	57.1	52.9	49.5	44.5	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	54.7	66.7	61.8	57.9	52.9	47.5	39.2	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	52.3	63.8	59.6	55.5	50.4	45.8	37.6	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 16 Egret Place TAIGUM 15/05/2019



N/R

# Site 6 - 502 Church Road, Taigum

DTMR

The noise measurement data at 502 Church Street TAIGUM was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 18.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 16/05/2019 to 22/05/2019 respectively.

The noise measurement data at 502 Church Street TAIGUM was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 1.

**Table 18: Measured road traffic noise levels at 502 Church Street TAIGUM 4018**

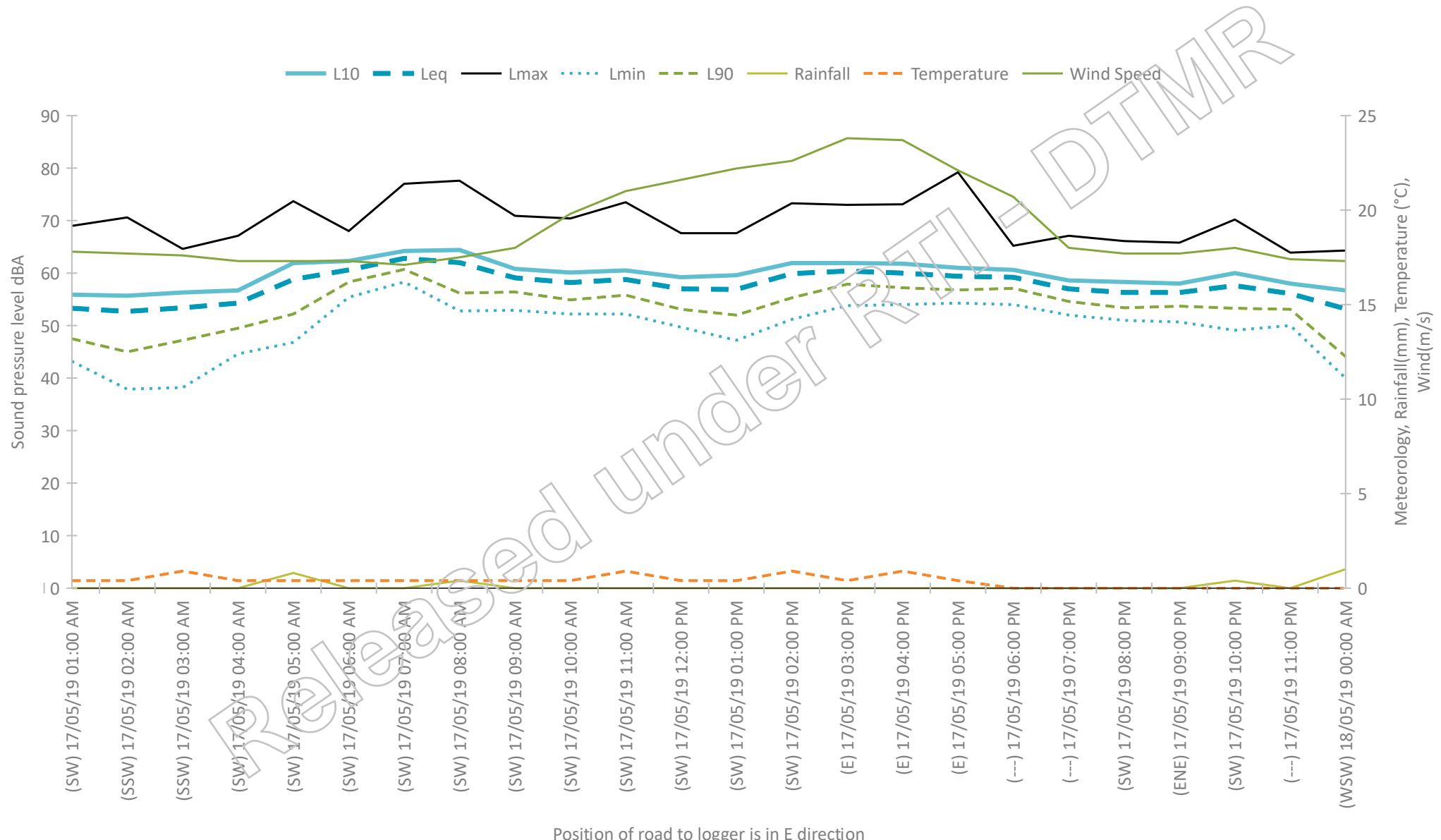
Facade corrected LA10 (18hr) dBA	
Friday 17/05/19	60.3
Monday 20/05/19	58.0
Tuesday 21/05/19	60.2

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	502 Church Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.3</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	58.5	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	56.3	dBA
State Road	Gateway Motorway	Distance	189 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	61.3	dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	46.7	dBA
Instrument serial no	8781BE	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	53.6	dBA
Time scale	60 mins	Operator	N/R	Prediction based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 17/05/19	1:00	53.3	69.0	60.6	55.9	51.6	47.5	43.2	0.0	17.8	SW	0.4
Fri 17/05/19	2:00	52.7	70.6	60.1	55.7	50.7	45.0	37.9	0.0	17.7	SSW	0.4
Fri 17/05/19	3:00	53.4	64.6	59.9	56.3	52.0	47.2	38.2	0.0	17.6	SSW	0.9
Fri 17/05/19	4:00	54.3	67.1	60.8	56.7	53.1	49.5	44.6	0.0	17.3	SW	0.4
Fri 17/05/19	5:00	58.8	73.7	64.3	61.9	57.5	52.2	46.8	0.8	17.3	SW	0.4
Fri 17/05/19	6:00	60.6	68.0	64.3	62.3	60.2	58.3	55.4	0.0	17.3	SW	0.4
Fri 17/05/19	7:00	62.8	77.0	66.4	64.2	62.4	60.7	58.3	0.0	17.1	SW	0.4
Fri 17/05/19	8:00	62.0	77.6	66.6	64.4	61.7	56.2	52.8	0.4	17.5	SW	0.4
Fri 17/05/19	9:00	59.1	70.9	63.6	60.8	58.5	56.4	52.9	0.0	18.0	SW	0.4
Fri 17/05/19	10:00	58.2	70.4	63.1	60.1	57.4	54.9	52.2	0.0	19.8	SW	0.4
Fri 17/05/19	11:00	58.8	73.5	63.6	60.5	58.2	55.8	52.2	0.0	21.0	SW	0.9
Fri 17/05/19	12:00	57.0	67.6	62.4	59.2	56.1	53.1	49.7	0.0	21.6	SW	0.4
Fri 17/05/19	13:00	56.9	67.6	62.0	59.6	55.7	52.0	47.2	0.0	22.2	SW	0.4
Fri 17/05/19	14:00	59.9	73.3	64.2	61.9	59.7	55.3	51.2	0.0	22.6	SW	0.9
Fri 17/05/19	15:00	60.4	73.0	63.8	61.9	60.0	57.9	53.8	0.0	23.8	E	0.4
Fri 17/05/19	16:00	60.0	73.1	64.2	61.8	59.4	57.2	54.0	0.0	23.7	E	0.9
Fri 17/05/19	17:00	59.4	79.2	63.5	61.0	58.7	56.8	54.3	0.0	22.1	E	0.4
Fri 17/05/19	18:00	59.2	65.2	62.0	60.6	59.0	57.1	54.0	0.0	20.7	---	0.0
Fri 17/05/19	19:00	57.0	67.1	61.3	58.6	56.4	54.6	52.0	0.0	18.0	---	0.0
Fri 17/05/19	20:00	56.3	66.1	60.8	58.3	55.5	53.4	51.0	0.0	17.7	SW	0.0
Fri 17/05/19	21:00	56.3	65.8	59.9	58.0	55.9	53.7	50.7	0.0	17.7	ENE	0.0
Fri 17/05/19	22:00	57.6	70.2	62.7	60.0	56.9	53.3	49.1	0.4	18.0	SW	0.0
Fri 17/05/19	23:00	56.1	63.9	60.7	58.0	55.5	53.1	50.0	0.0	17.4	---	0.0
Sat 18/05/19	0:00	53.2	64.3	60.1	56.7	50.9	44.1	40.0	1.0	17.3	WSW	0.0

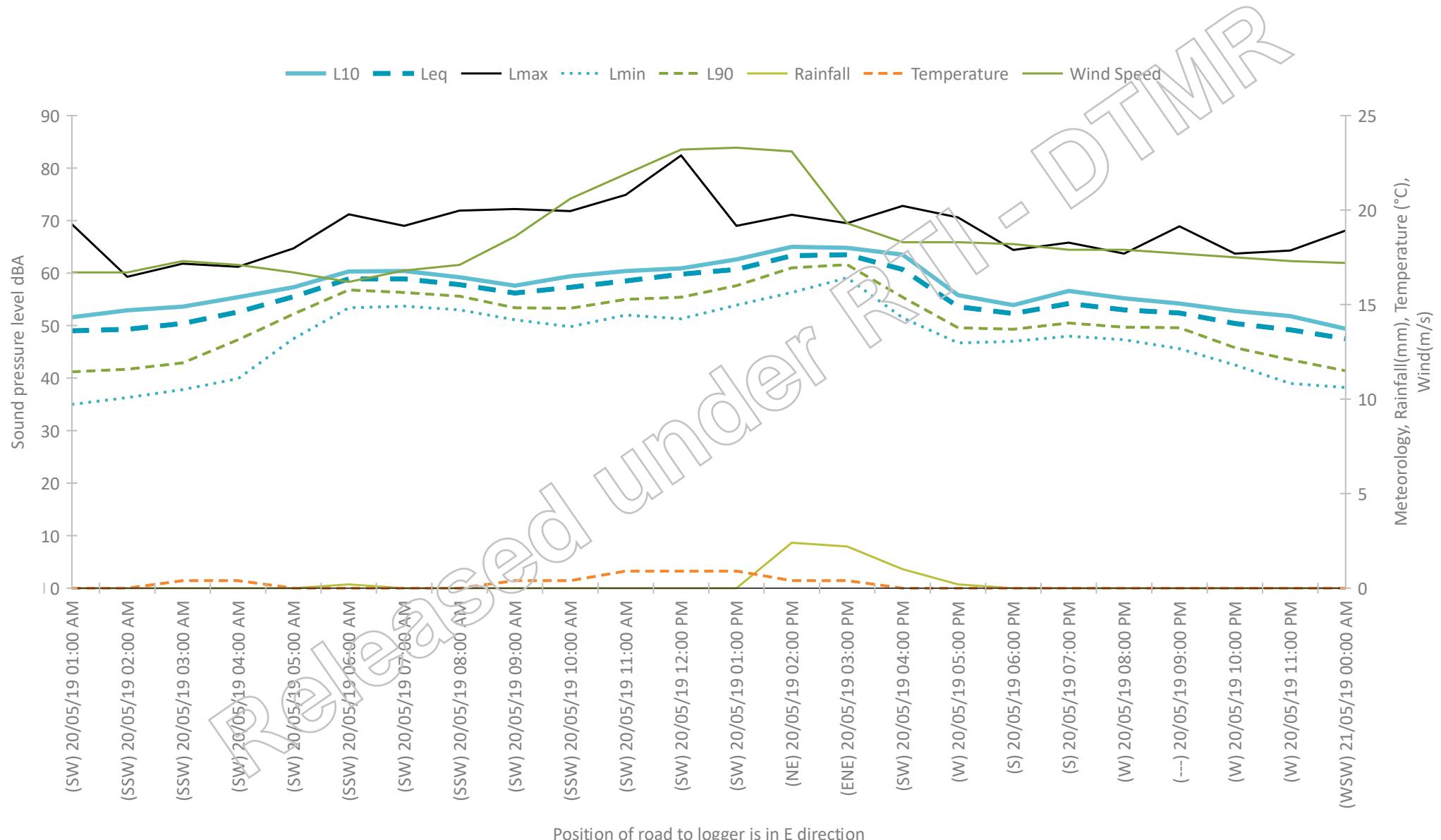
## Project 620.11007.00500 Version 1.0 502 Church Street TAIGUM 17/05/2019



Address	502 Church Street		AADT	74217	<b>LA10 (18 hour)</b>	<b>58.0</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	57.5	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	60.4	dBA	
State Road	Gateway Motorway		Distance	189 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	60.3	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	46.7	dBA
Instrument serial no	8781BE	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.1	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 59.5 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 20/05/19	1:00	49.0	69.3	56.9	51.6	46.6	41.2	35.0	0.0	16.7	SW	0.0
Mon 20/05/19	2:00	49.3	59.3	56.2	52.9	47.2	41.7	36.3	0.0	16.7	SSW	0.0
Mon 20/05/19	3:00	50.4	61.8	57.2	53.6	48.8	42.9	37.8	0.0	17.3	SSW	0.4
Mon 20/05/19	4:00	52.6	61.2	58.2	55.4	51.7	47.3	39.9	0.0	17.1	SW	0.4
Mon 20/05/19	5:00	55.5	64.7	59.3	57.3	55.1	52.2	47.5	0.0	16.7	SW	0.0
Mon 20/05/19	6:00	58.9	71.2	63.0	60.3	58.4	56.8	53.4	0.2	16.2	SSW	0.0
Mon 20/05/19	7:00	58.9	69.0	62.6	60.4	58.5	56.3	53.7	0.0	16.8	SW	0.0
Mon 20/05/19	8:00	57.8	71.9	61.2	59.2	57.4	55.6	53.0	0.0	17.1	SSW	0.0
Mon 20/05/19	9:00	56.2	72.2	61.1	57.6	55.5	53.4	51.1	0.0	18.6	SW	0.4
Mon 20/05/19	10:00	57.3	71.8	64.5	59.4	56.0	53.3	49.8	0.0	20.6	SSW	0.4
Mon 20/05/19	11:00	58.5	74.9	63.2	60.4	57.8	55.0	52.0	0.0	21.9	SW	0.9
Mon 20/05/19	12:00	59.8	82.4	64.5	60.9	58.3	55.4	51.3	0.0	23.2	SW	0.9
Mon 20/05/19	13:00	60.7	69.0	64.7	62.6	60.2	57.6	53.9	0.0	23.3	SW	0.9
Mon 20/05/19	14:00	63.3	71.1	66.4	65.0	63.0	61.0	56.3	2.4	23.1	NE	0.4
Mon 20/05/19	15:00	63.5	69.5	66.2	64.8	63.2	61.6	59.1	2.2	19.3	ENE	0.4
Mon 20/05/19	16:00	60.7	72.8	65.6	63.5	59.2	55.4	51.5	1.0	18.3	SW	0.0
Mon 20/05/19	17:00	53.6	70.6	60.9	55.8	52.1	49.6	46.7	0.2	18.3	W	0.0
Mon 20/05/19	18:00	52.3	64.4	58.1	53.9	51.5	49.3	47.0	0.0	18.2	S	0.0
Mon 20/05/19	19:00	54.2	65.8	59.8	56.6	53.1	50.5	48.0	0.0	17.9	S	0.0
Mon 20/05/19	20:00	53.0	63.7	58.3	55.2	52.0	49.7	47.3	0.0	17.9	W	0.0
Mon 20/05/19	21:00	52.4	68.9	56.8	54.2	51.8	49.6	45.6	0.0	17.7	---	0.0
Mon 20/05/19	22:00	50.4	63.7	56.3	52.8	49.2	45.8	42.5	0.0	17.5	W	0.0
Mon 20/05/19	23:00	49.2	64.3	57.9	51.8	47.0	43.5	39.0	0.0	17.3	W	0.0
Tue 21/05/19	0:00	47.5	68.1	56.2	49.4	44.6	41.4	38.2	0.0	17.2	WSW	0.0

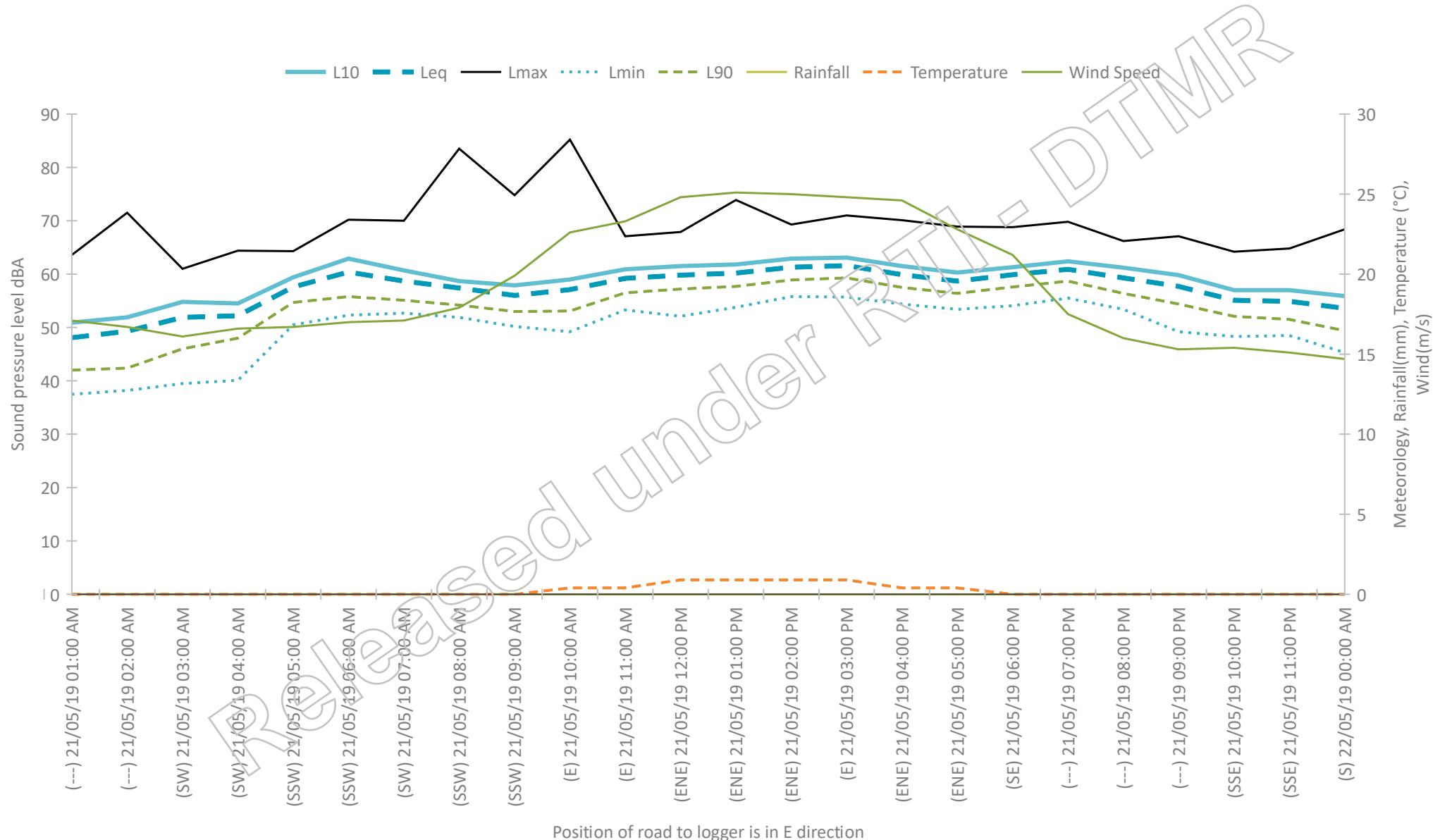
## Project 620.11007.00500 Version 1.0 502 Church Street TAIGUM 20/05/2019



Address	502 Church Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.2</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	58.3 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	62.9 dBA
State Road	Gateway Motorway	Distance	189 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	60.8 dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	50.2 dBA
Instrument serial no	8781BE	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	53.7 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	61.7 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 21/05/19	1:00	48.1	63.6	54.7	50.9	46.3	42.0	37.5	0.0	17.1	---	0.0
Tue 21/05/19	2:00	49.3	71.5	56.6	51.9	47.3	42.4	38.2	0.0	16.7	---	0.0
Tue 21/05/19	3:00	51.9	61.0	58.0	54.8	50.7	46.0	39.5	0.0	16.1	SW	0.0
Tue 21/05/19	4:00	52.2	64.4	57.4	54.5	51.3	48.0	40.1	0.0	16.6	SW	0.0
Tue 21/05/19	5:00	57.6	64.3	61.1	59.4	57.2	54.7	50.5	0.0	16.7	SSW	0.0
Tue 21/05/19	6:00	60.4	70.2	64.3	62.9	59.9	55.8	52.3	0.0	17.0	SSW	0.0
Tue 21/05/19	7:00	58.7	70.0	63.6	60.7	58.1	55.1	52.7	0.0	17.1	SW	0.0
Tue 21/05/19	8:00	57.4	83.5	64.4	58.7	56.0	54.2	51.9	0.0	17.9	SSW	0.0
Tue 21/05/19	9:00	56.0	74.8	61.6	57.9	55.2	53.0	50.2	0.0	19.9	SSW	0.0
Tue 21/05/19	10:00	57.1	85.2	62.1	59.0	55.8	53.1	49.2	0.0	22.6	E	0.4
Tue 21/05/19	11:00	59.2	67.1	62.8	60.9	58.8	56.5	53.3	0.0	23.3	E	0.4
Tue 21/05/19	12:00	59.8	67.9	63.4	61.5	59.4	57.2	52.1	0.0	24.8	ENE	0.9
Tue 21/05/19	13:00	60.2	73.9	64.0	61.8	59.7	57.7	53.8	0.0	25.1	ENE	0.9
Tue 21/05/19	14:00	61.3	69.3	64.3	62.9	61.0	58.9	55.8	0.0	25.0	ENE	0.9
Tue 21/05/19	15:00	61.6	71.0	64.7	63.1	61.3	59.3	55.7	0.0	24.8	E	0.9
Tue 21/05/19	16:00	59.9	70.1	63.1	61.5	59.6	57.5	54.4	0.0	24.6	ENE	0.4
Tue 21/05/19	17:00	58.7	68.9	62.3	60.3	58.2	56.4	53.4	0.0	22.8	ENE	0.4
Tue 21/05/19	18:00	59.9	68.8	62.9	61.3	59.5	57.6	54.1	0.0	21.2	SE	0.0
Tue 21/05/19	19:00	60.9	69.8	64.2	62.4	60.5	58.7	55.5	0.0	17.5	---	0.0
Tue 21/05/19	20:00	59.3	66.2	63.0	61.2	58.9	56.4	53.4	0.0	16.0	---	0.0
Tue 21/05/19	21:00	57.7	67.1	62.6	59.8	57.0	54.4	49.2	0.0	15.3	---	0.0
Tue 21/05/19	22:00	55.1	64.2	59.5	57.0	54.5	52.1	48.3	0.0	15.4	SSE	0.0
Tue 21/05/19	23:00	54.9	64.8	60.4	57.0	54.0	51.5	48.5	0.0	15.1	SSE	0.0
Wed 22/05/19	0:00	53.6	68.4	60.2	55.9	52.3	49.4	45.3	0.0	14.7	S	0.0

## Project 620.11007.00500 Version 1.0 502 Church Street TAIGUM 21/05/2019



N/R

# Site 7 - 41 Depot Road, Deagon

The noise measurement data at 41 Depot Road DEAGON was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 19.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

**Table 19: Measured road traffic noise levels at 41 Depot Road DEAGON 4017**

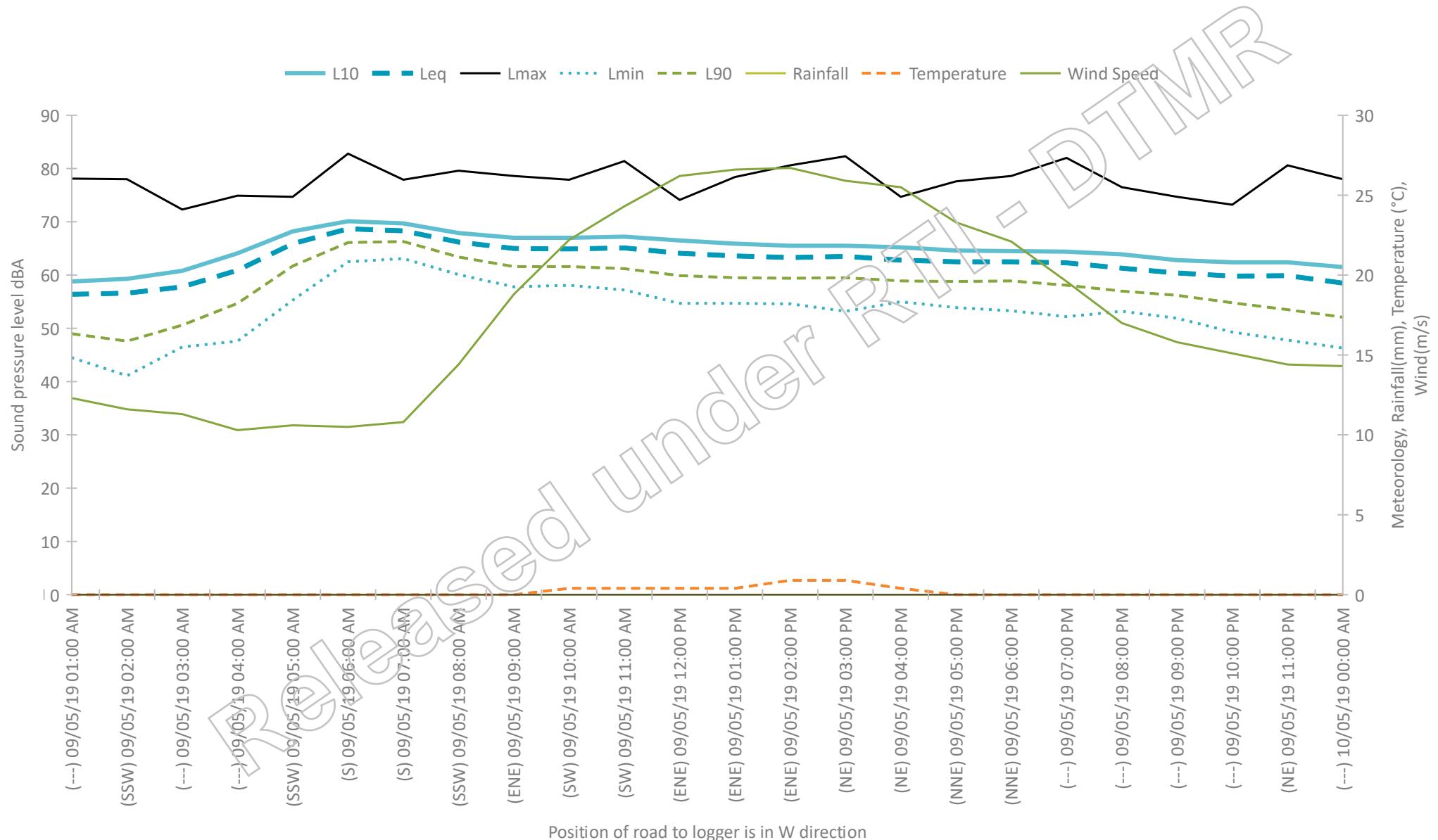
Facade corrected LA10 (18hr) dBA	
Thursday 09/05/19	65.2
Friday 10/05/19	66.2
Monday 13/05/19	66.2
Tuesday 14/05/19	66.0
Wednesday 15/05/19	66.2

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	41 Depot Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>65.2</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	63.7 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	67.7 dBA	
State Road	Gateway Motorway	Distance	34 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	66.4 dBA	
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	53.5 dBA	
Instrument serial no	8781BA	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.9 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 66.7 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	56.4	78.1	64.8	58.8	53.4	49.0	44.5	0.0	12.3	---	0.0
Thu 09/05/19	2:00	56.6	78.0	65.4	59.3	52.8	47.6	41.1	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	57.8	72.3	66.9	60.8	55.0	50.6	46.5	0.0	11.3	---	0.0
Thu 09/05/19	4:00	60.9	74.9	67.6	64.1	59.2	54.7	47.6	0.0	10.3	---	0.0
Thu 09/05/19	5:00	65.9	74.7	71.0	68.2	65.1	61.7	55.3	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	68.7	82.8	72.5	70.1	68.3	66.1	62.5	0.0	10.5	S	0.0
Thu 09/05/19	7:00	68.3	77.9	71.8	69.7	68.0	66.3	63.1	0.0	10.8	S	0.0
Thu 09/05/19	8:00	66.2	79.6	69.8	67.9	65.8	63.4	60.1	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	65.0	78.6	70.3	67.0	64.1	61.6	57.8	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	64.9	77.9	69.4	67.0	64.1	61.6	58.1	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	65.1	81.4	70.3	67.2	64.1	61.2	57.2	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	64.1	74.1	69.4	66.5	63.1	59.9	54.7	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	63.6	78.4	69.5	65.9	62.5	59.5	54.7	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	63.3	80.6	68.8	65.5	62.3	59.4	54.6	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	63.5	82.3	69.1	65.5	62.4	59.5	53.2	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	62.8	74.7	67.9	65.2	62.0	58.9	55.0	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	62.5	77.6	67.7	64.6	61.7	58.8	53.9	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	62.5	78.6	68.3	64.5	61.4	58.9	53.3	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	62.3	82.0	68.5	64.4	60.9	58.1	52.2	0.0	19.6	---	0.0
Thu 09/05/19	20:00	61.3	76.5	67.8	63.9	59.7	57.0	53.2	0.0	17.0	---	0.0
Thu 09/05/19	21:00	60.4	74.7	67.1	62.8	58.9	56.2	51.9	0.0	15.8	---	0.0
Thu 09/05/19	22:00	59.8	73.2	67.7	62.4	57.8	54.8	49.3	0.0	15.1	---	0.0
Thu 09/05/19	23:00	59.9	80.6	68.2	62.4	56.9	53.5	47.8	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	58.5	78.0	67.0	61.5	55.6	52.1	46.3	0.0	14.3	---	0.0

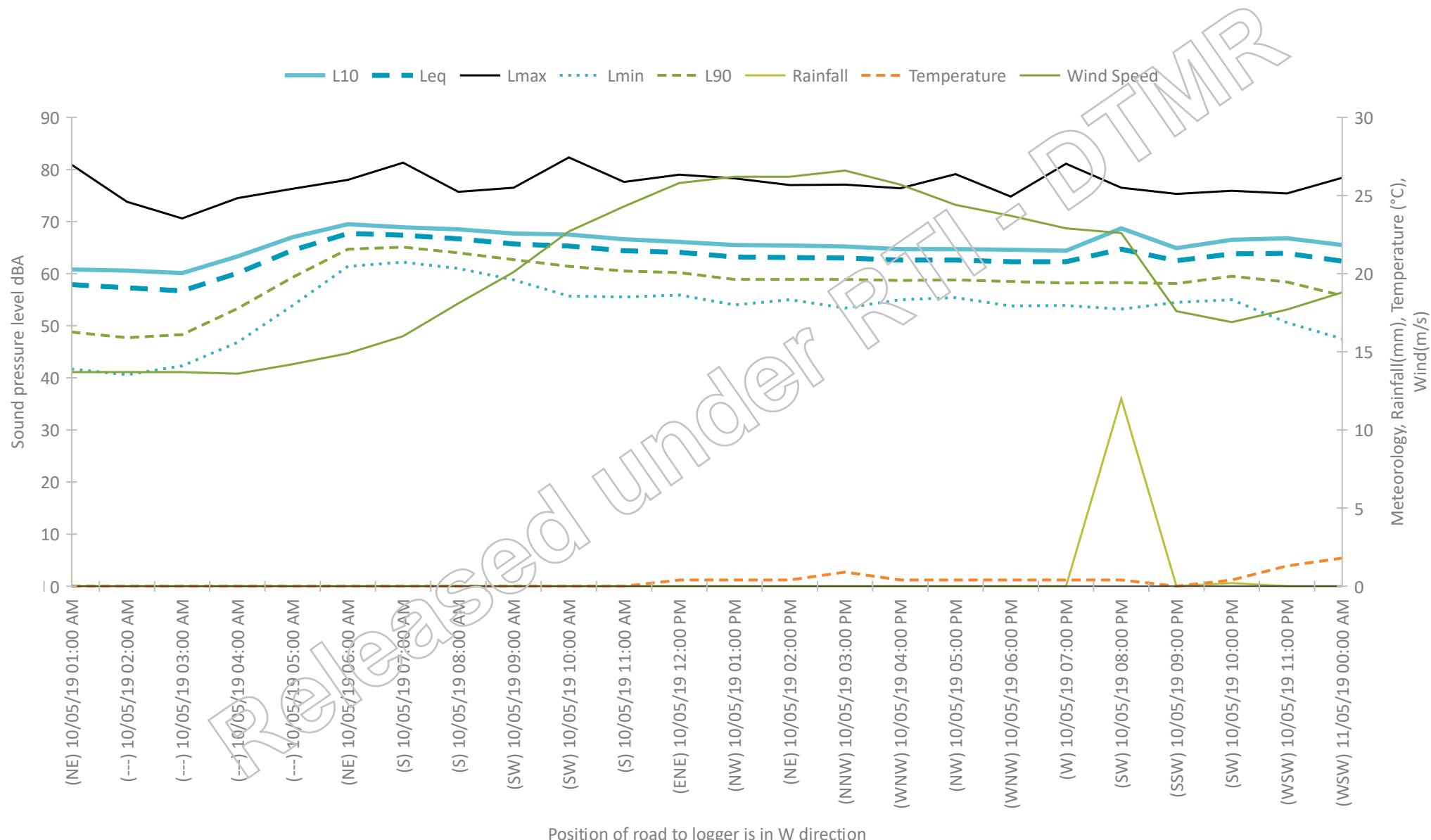
## Project 620.11007.00500 Version 1.0 41 Depot Road DEAGON 9/05/2019



Address	41 Depot Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>66.2</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	63.9 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	64.1 dBA	
State Road	Gateway Motorway	Distance	34 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	66.3 dBA	
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	54.3 dBA	
Instrument serial no	8781BA	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	58.2 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 67.7 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	57.9	80.9	67.0	60.8	53.8	48.8	41.7	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	57.3	73.8	67.6	60.6	53.1	47.7	40.6	0.0	13.7	---	0.0
Fri 10/05/19	3:00	56.7	70.6	66.0	60.1	53.4	48.3	42.3	0.0	13.7	---	0.0
Fri 10/05/19	4:00	60.1	74.5	67.9	63.3	57.9	53.3	46.8	0.0	13.6	---	0.0
Fri 10/05/19	5:00	64.5	76.3	69.7	67.0	63.7	59.3	53.9	0.0	14.2	---	0.0
Fri 10/05/19	6:00	67.7	78.0	71.6	69.5	67.3	64.7	61.4	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	67.4	81.3	71.3	68.9	66.9	65.1	62.2	0.0	16.0	S	0.0
Fri 10/05/19	8:00	66.7	75.7	70.4	68.5	66.3	64.0	61.0	0.0	18.1	S	0.0
Fri 10/05/19	9:00	65.7	76.5	70.4	67.7	65.0	62.7	58.8	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	65.3	82.3	71.0	67.5	64.2	61.4	55.7	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	64.4	77.6	70.1	66.6	63.5	60.5	55.5	0.0	24.3	S	0.0
Fri 10/05/19	12:00	64.1	79.0	69.9	66.1	63.0	60.2	55.9	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	63.2	78.3	68.6	65.5	62.2	58.9	54.0	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	63.1	77.0	69.2	65.4	62.0	58.9	55.0	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	63.0	77.1	68.9	65.2	62.0	58.9	53.4	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	62.6	76.4	67.9	64.7	61.7	58.7	55.0	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	62.6	79.1	69.1	64.7	61.5	58.8	55.4	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	62.3	74.8	68.1	64.6	61.1	58.5	53.8	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	62.3	81.1	68.2	64.4	61.1	58.2	53.9	0.0	22.9	W	0.4
Fri 10/05/19	20:00	64.7	76.5	71.1	68.7	61.7	58.3	53.2	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	62.5	75.3	69.4	64.9	61.1	58.1	54.5	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	63.8	75.9	69.9	66.5	62.5	59.5	55.0	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	63.9	75.4	71.1	66.8	62.2	58.4	50.6	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	62.4	78.4	69.7	65.5	60.5	55.8	47.5	0.0	18.8	WSW	1.8

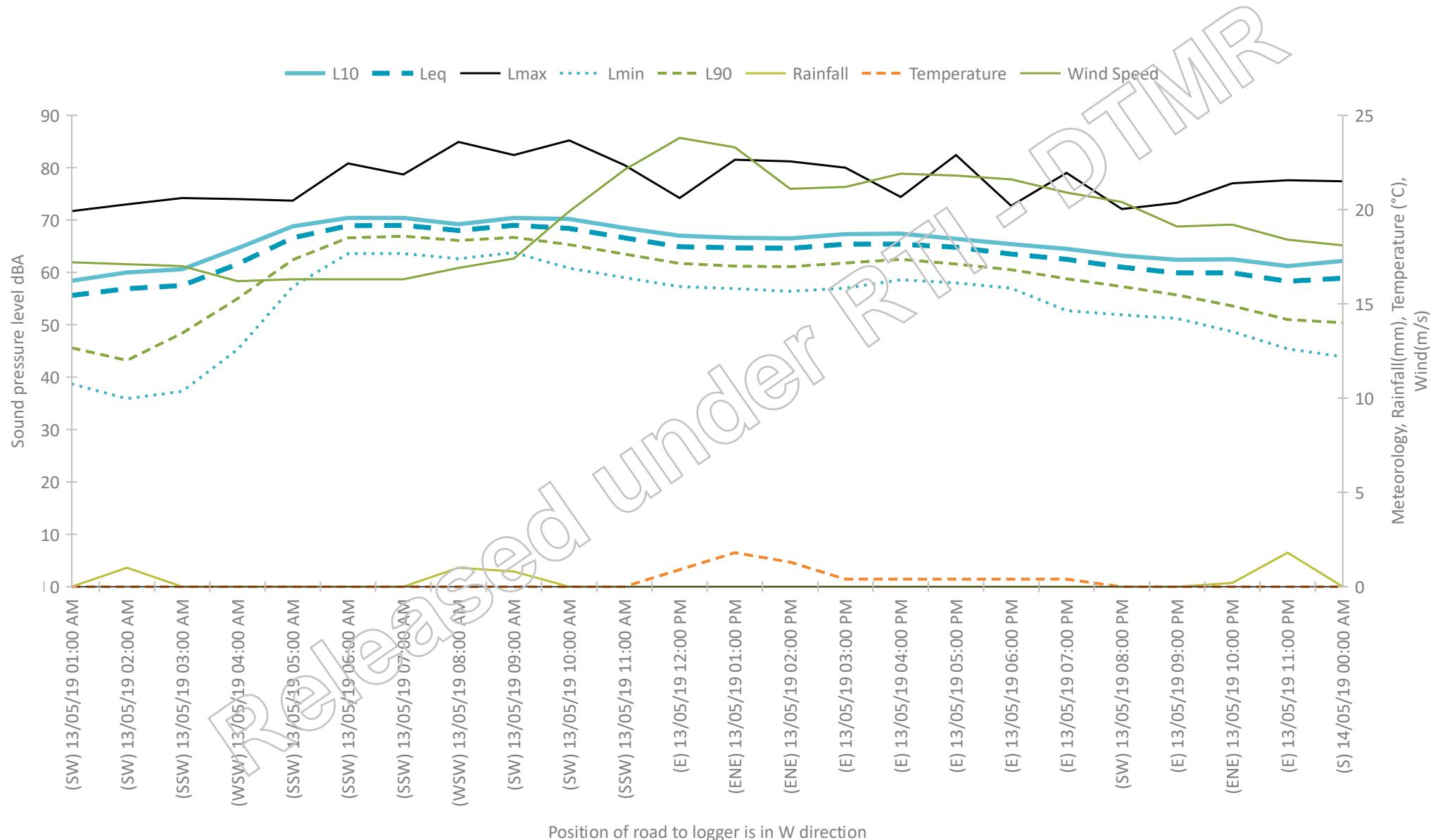
## Project 620.11007.00500 Version 1.0 41 Depot Road DEAGON 10/05/2019



Address	41 Depot Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>66.2</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	65.0 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	69.4 dBA	
State Road	Gateway Motorway	Distance	34 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	67.9 dBA	
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	53.8 dBA	
Instrument serial no	8781BA	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	58.6 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 67.7 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	55.6	71.7	66.1	58.4	51.2	45.6	38.7	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	56.9	73.0	68.0	60.0	51.4	43.2	35.9	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	57.5	74.2	66.5	60.6	54.7	48.4	37.3	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	61.6	74.0	68.0	64.6	60.3	55.0	45.3	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	66.6	73.7	70.9	68.8	66.0	62.4	57.3	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	68.9	80.8	72.1	70.4	68.5	66.6	63.6	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	69.0	78.7	72.3	70.4	68.6	66.9	63.6	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	68.0	84.9	71.1	69.2	67.6	66.1	62.6	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	69.0	82.4	72.4	70.4	68.6	66.7	63.8	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	68.4	85.2	72.1	70.2	67.9	65.3	60.8	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	66.6	80.5	70.9	68.5	65.8	63.5	59.0	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	64.9	74.2	69.4	67.0	64.2	61.7	57.3	0.0	23.8	E	0.9
Mon 13/05/19	13:00	64.7	81.5	69.5	66.6	63.8	61.2	56.9	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	64.6	81.2	69.6	66.5	63.7	61.1	56.4	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	65.4	80.0	70.7	67.3	64.5	61.8	57.0	0.0	21.2	E	0.4
Mon 13/05/19	16:00	65.4	74.4	69.9	67.4	64.8	62.5	58.6	0.0	21.9	E	0.4
Mon 13/05/19	17:00	64.8	82.4	69.7	66.4	63.9	61.6	58.0	0.0	21.8	E	0.4
Mon 13/05/19	18:00	63.5	72.7	68.1	65.4	62.8	60.5	57.0	0.0	21.6	E	0.4
Mon 13/05/19	19:00	62.5	79.0	67.9	64.5	61.4	58.8	52.7	0.0	20.9	E	0.4
Mon 13/05/19	20:00	61.0	72.1	66.6	63.2	60.1	57.3	51.9	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	59.9	73.3	66.8	62.4	58.6	55.7	51.2	0.0	19.1	E	0.0
Mon 13/05/19	22:00	59.9	77.0	68.6	62.5	57.3	53.6	48.7	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	58.3	77.6	67.3	61.2	55.3	51.0	45.4	1.8	18.4	E	0.0
Tue 14/05/19	0:00	58.9	77.4	67.9	62.2	55.4	50.4	43.9	0.0	18.1	S	0.0

## Project 620.11007.00500 Version 1.0 41 Depot Road DEAGON 13/05/2019

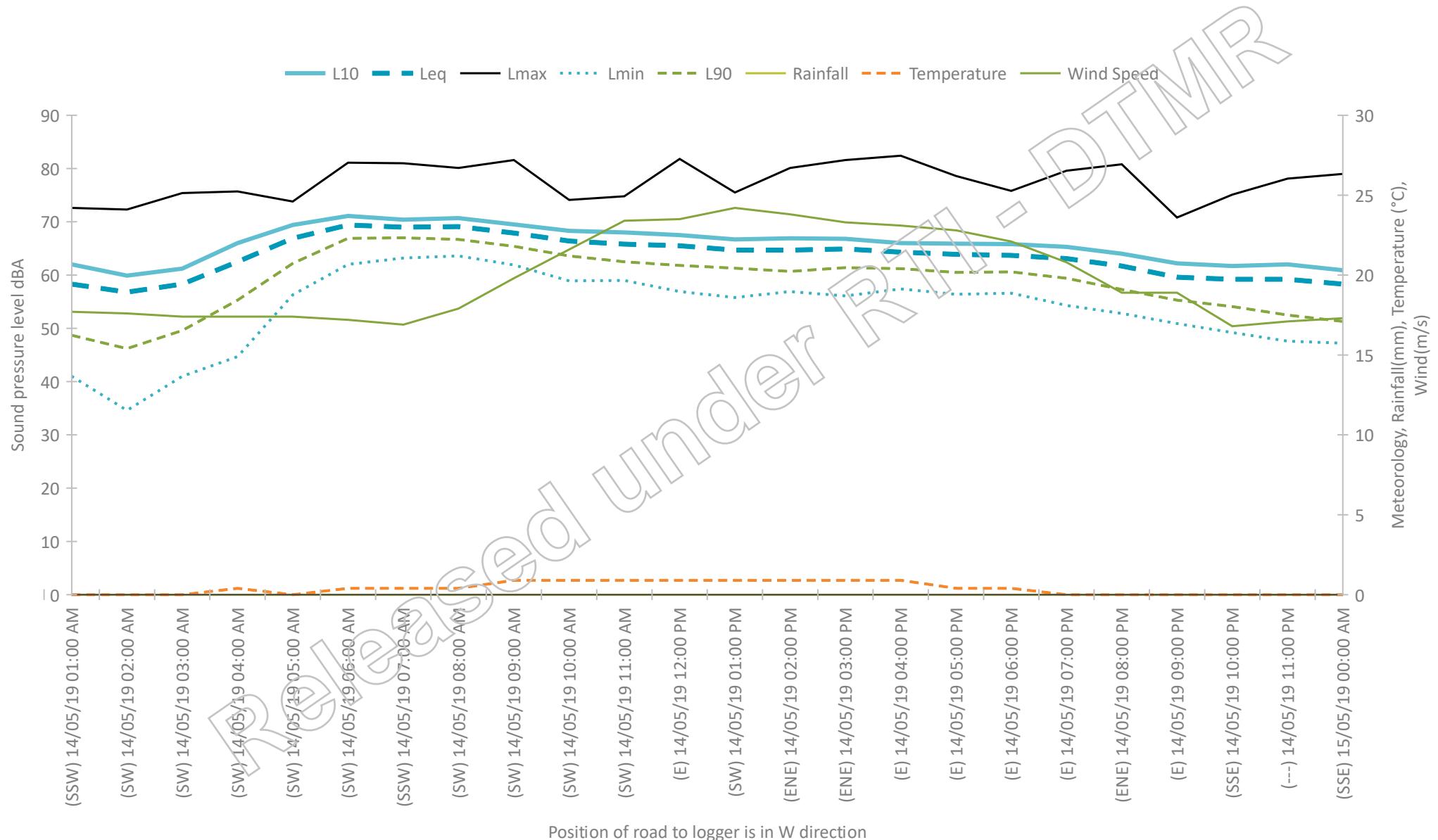


Position of road to logger is in W direction

Address	41 Depot Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>66.0</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	64.9 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	68.6 dBA	
State Road	Gateway Motorway	Distance	34 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	67.7 dBA	
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	54.0 dBA	
Instrument serial no	8781BA	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	58.8 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 67.5 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	58.3	72.6	67.7	62.0	54.5	48.7	41.0	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	56.8	72.3	66.3	59.9	53.8	46.2	34.6	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	58.3	75.4	66.7	61.2	55.9	49.6	41.0	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	62.5	75.7	69.6	66.0	60.5	55.3	44.7	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	66.9	73.8	71.2	69.4	66.3	62.2	56.3	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	69.4	81.1	73.0	71.1	69.1	66.9	62.0	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	69.0	81.0	72.3	70.4	68.7	67.0	63.2	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	69.1	80.1	72.5	70.7	68.7	66.7	63.6	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	67.9	81.6	71.8	69.5	67.4	65.4	61.9	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	66.4	74.1	70.5	68.3	65.8	63.6	58.9	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	65.8	74.8	70.4	68.0	65.0	62.5	59.0	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	65.5	81.8	70.3	67.5	64.6	61.8	56.9	0.0	23.5	E	0.9
Tue 14/05/19	13:00	64.7	75.5	69.7	66.7	64.1	61.3	55.8	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	64.7	80.1	70.5	66.9	63.6	60.7	56.9	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	64.9	81.6	69.9	66.8	64.1	61.4	56.1	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	64.3	82.4	69.6	66.0	63.5	61.2	57.4	0.0	23.1	E	0.9
Tue 14/05/19	17:00	63.9	78.6	68.7	65.9	63.0	60.5	56.4	0.0	22.8	E	0.4
Tue 14/05/19	18:00	63.7	75.8	68.5	65.8	62.9	60.6	56.6	0.0	22.1	E	0.4
Tue 14/05/19	19:00	63.1	79.6	68.7	65.3	62.2	59.4	54.3	0.0	20.8	E	0.0
Tue 14/05/19	20:00	61.7	80.8	68.1	64.0	60.2	57.3	52.8	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	59.6	70.8	66.4	62.2	58.3	55.3	50.9	0.0	18.9	E	0.0
Tue 14/05/19	22:00	59.2	75.1	67.2	61.7	57.4	54.1	49.2	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	59.2	78.1	68.2	62.0	56.2	52.5	47.6	0.0	17.1	---	0.0
Wed 15/05/19	0:00	58.3	79.0	67.3	60.9	55.0	51.3	47.2	0.0	17.3	SSE	0.0

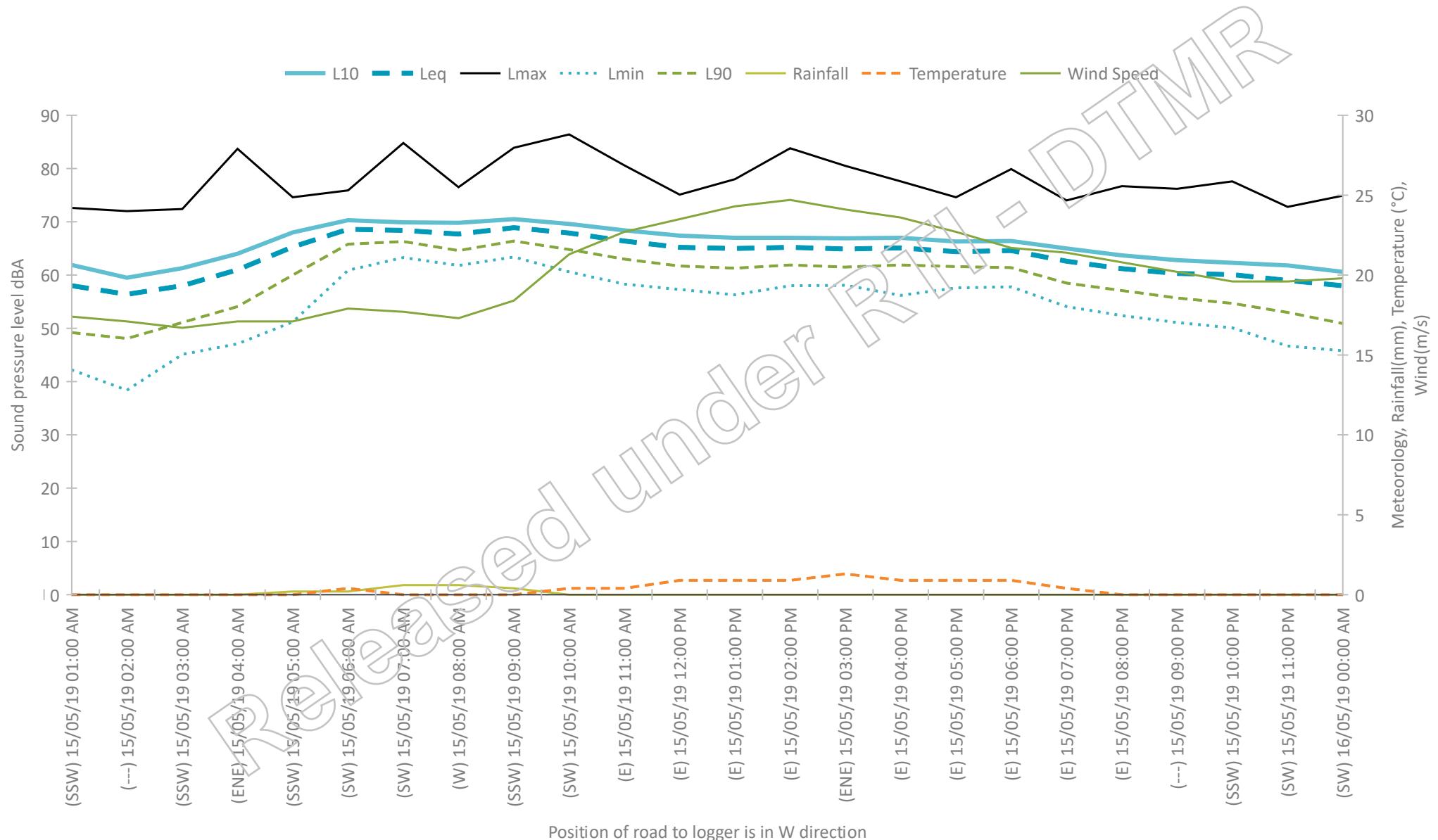
## Project 620.11007.00500 Version 1.0 41 Depot Road DEAGON 14/05/2019



Address	41 Depot Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>66.2</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	64.8 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	59.0 dBA	
State Road	Gateway Motorway	Distance	34 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	68.0 dBA	
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	51.0 dBA	
Instrument serial no	8781BA	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	58.9 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 67.7 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	58.0	72.6	67.4	61.9	53.9	49.2	42.2	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	56.4	72.0	66.4	59.5	52.6	48.1	38.4	0.0	17.1	---	0.0
Wed 15/05/19	3:00	58.0	72.4	66.6	61.3	55.6	51.1	45.1	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	61.0	83.7	67.5	64.0	59.4	54.1	47.1	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	65.3	74.6	70.6	68.0	64.4	60.0	51.2	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	68.6	75.9	71.9	70.3	68.3	65.8	60.9	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	68.4	84.8	71.6	69.9	67.9	66.3	63.3	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	67.7	76.5	71.7	69.8	67.0	64.6	61.8	0.6	17.3	W	0.0
Wed 15/05/19	9:00	68.9	83.9	72.4	70.5	68.5	66.4	63.4	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	67.9	86.4	71.9	69.6	67.4	64.8	60.6	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	66.4	80.6	71.1	68.4	65.8	63.0	58.3	0.0	22.7	E	0.4
Wed 15/05/19	12:00	65.2	75.1	70.5	67.4	64.4	61.7	57.3	0.0	23.5	E	0.9
Wed 15/05/19	13:00	65.0	78.0	70.7	67.0	64.1	61.3	56.3	0.0	24.3	E	0.9
Wed 15/05/19	14:00	65.2	83.8	69.6	67.0	64.4	61.9	58.0	0.0	24.7	E	0.9
Wed 15/05/19	15:00	64.9	80.5	70.6	66.9	64.1	61.5	58.1	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	65.1	77.6	69.7	67.0	64.4	61.9	56.2	0.0	23.6	E	0.9
Wed 15/05/19	17:00	64.4	74.6	68.9	66.3	63.8	61.6	57.6	0.0	22.7	E	0.9
Wed 15/05/19	18:00	64.6	79.9	69.2	66.4	63.8	61.4	57.8	0.0	21.7	E	0.9
Wed 15/05/19	19:00	62.6	74.0	67.9	65.0	61.7	58.5	54.1	0.0	21.4	E	0.4
Wed 15/05/19	20:00	61.2	76.7	67.5	63.7	59.9	57.1	52.4	0.0	20.8	E	0.0
Wed 15/05/19	21:00	60.3	76.2	67.2	62.8	58.6	55.7	51.1	0.0	20.2	---	0.0
Wed 15/05/19	22:00	60.1	77.6	68.4	62.3	57.7	54.7	50.1	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	59.0	72.8	67.1	61.8	56.9	53.0	46.7	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	58.0	74.9	67.4	60.6	55.1	50.9	45.8	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 41 Depot Road DEAGON 15/05/2019



N/R

Released under RTI - DTMR

# Site 8 - 87 Playford Street, Bracken Ridge

The noise measurement data at 87 Playford Street BRACKEN RIDGE was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 20.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 14/05/2019 respectively.

**Table 20: Measured road traffic noise levels at 87 Playford Street BRACKEN RIDGE 2019**

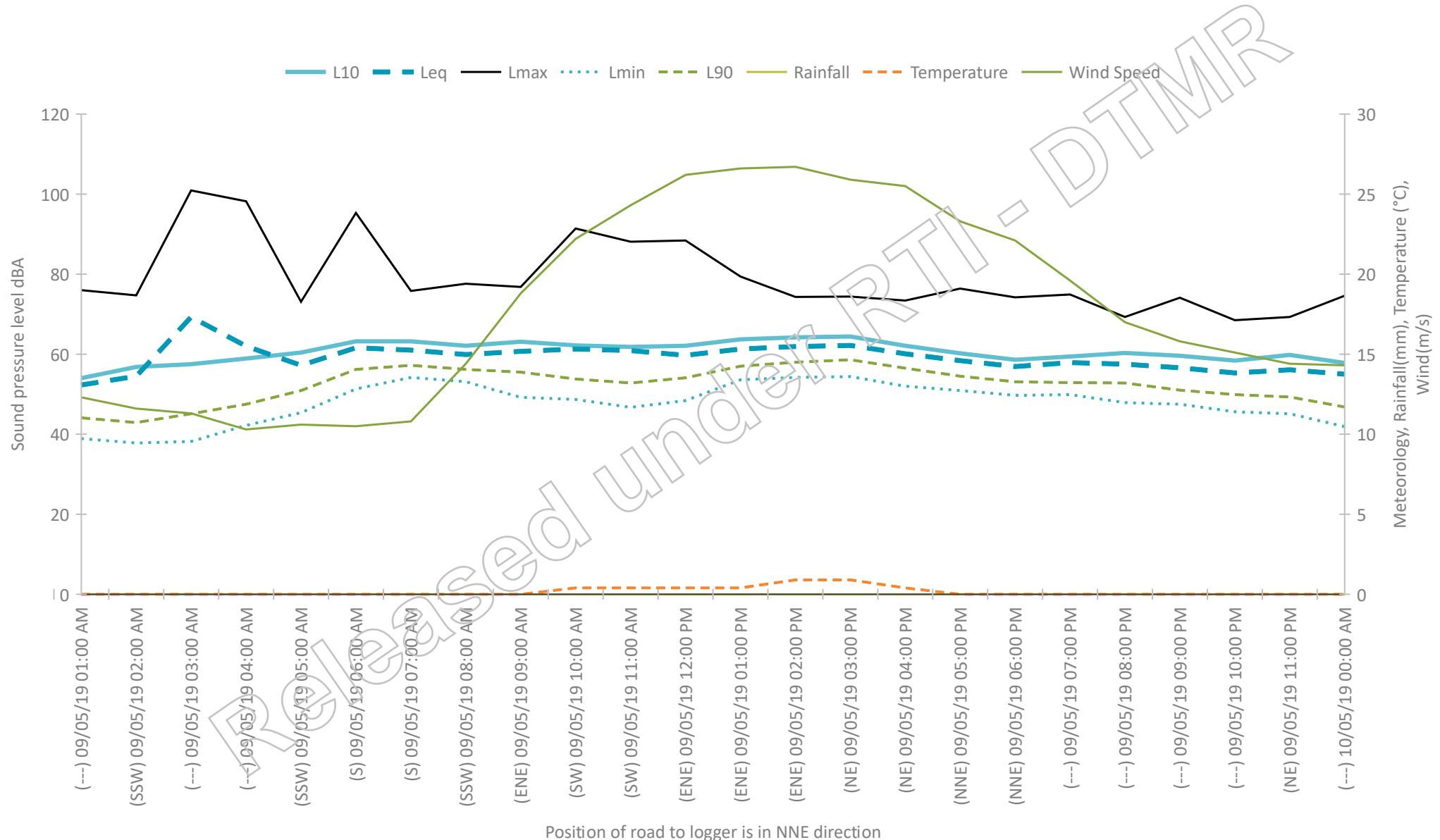
	Facade corrected LA10 (18hr) dBA
Thursday 09/05/19	61.3
Friday 10/05/19	61.7
Monday 13/05/19	61.1

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	87 Playford Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.3</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.8 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	59.8 dBA	
State Road	Gateway Motorway	Distance	86 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.3 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	47.2 dBA	
Instrument serial no	8781C7	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.4 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 62.8 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	52.3	76.0	62.5	54.0	48.2	44.1	38.9	0.0	12.3	---	0.0
Thu 09/05/19	2:00	54.5	74.7	65.4	56.8	48.3	42.9	37.8	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	69.3	100.9	67.4	57.5	49.5	45.1	38.2	0.0	11.3	---	0.0
Thu 09/05/19	4:00	62.0	98.2	66.6	58.9	51.3	47.5	42.2	0.0	10.3	---	0.0
Thu 09/05/19	5:00	57.2	73.1	64.7	60.4	55.0	50.9	45.4	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	61.6	95.3	67.1	63.2	59.5	56.2	51.3	0.0	10.5	S	0.0
Thu 09/05/19	7:00	61.0	75.8	66.4	63.2	59.8	57.2	54.2	0.0	10.8	S	0.0
Thu 09/05/19	8:00	59.9	77.6	65.1	62.1	58.8	56.2	53.1	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	60.7	76.8	68.8	63.1	58.6	55.5	49.2	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	61.3	91.4	68.8	62.2	57.5	53.8	48.7	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	60.9	88.1	69.9	61.8	56.7	52.8	46.7	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	59.7	88.4	66.7	62.1	57.9	54.1	48.4	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	61.3	79.4	67.5	63.7	60.0	57.0	53.6	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	61.9	74.3	68.1	64.2	60.7	58.0	54.2	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	62.2	74.4	68.1	64.4	61.3	58.6	54.4	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	60.1	73.4	66.6	62.1	58.9	56.5	52.0	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	58.4	76.4	64.8	60.2	57.1	54.5	50.9	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	56.9	74.2	64.4	58.6	55.6	53.1	49.7	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	57.9	74.9	67.0	59.4	55.6	52.9	49.9	0.0	19.6	---	0.0
Thu 09/05/19	20:00	57.5	69.3	64.6	60.3	55.8	52.8	47.9	0.0	17.0	---	0.0
Thu 09/05/19	21:00	56.6	74.1	64.9	59.6	54.1	51.0	47.5	0.0	15.8	---	0.0
Thu 09/05/19	22:00	55.3	68.5	63.4	58.4	53.1	49.9	45.6	0.0	15.1	---	0.0
Thu 09/05/19	23:00	56.1	69.3	64.9	59.8	53.0	49.3	45.1	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	55.0	74.6	63.9	57.8	51.1	46.8	41.9	0.0	14.3	---	0.0

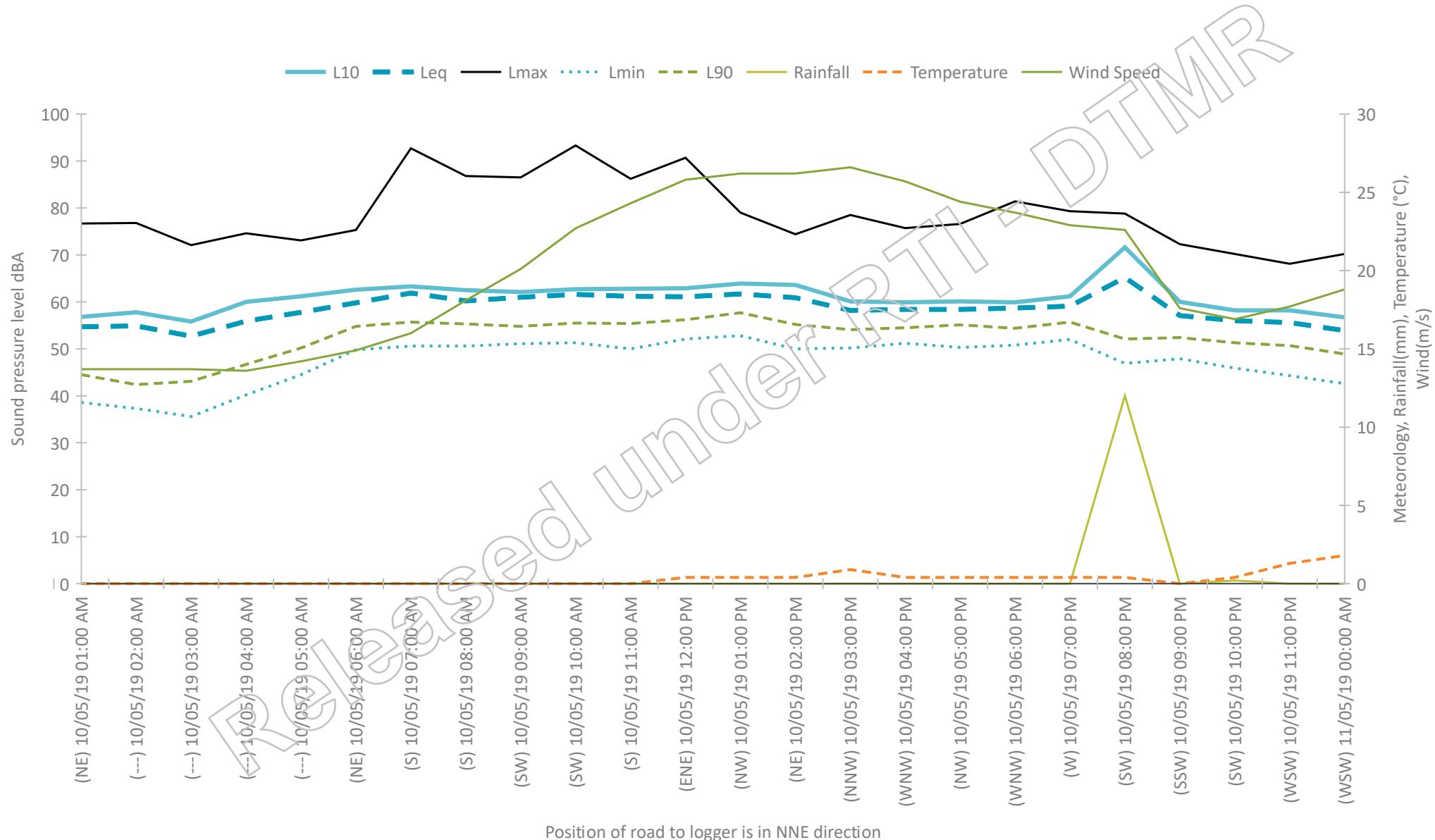
## Project 620.11007.00500 Version 1.0 87 Playford Street BRACKEN RIDGE 9/05/2019



Address	87 Playford Street		AADT	74217	<b>LA10 (18 hour)</b>	<b>61.7</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	59.6 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	56.2 dBA	
State Road	Gateway Motorway		Distance	86 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	62.0 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	47.9 dBA
Instrument serial no	8781C7	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.4 dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 63.1 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	54.7	76.7	64.4	56.8	49.3	44.5	38.6	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	54.9	76.8	65.8	57.8	48.2	42.4	37.3	0.0	13.7	---	0.0
Fri 10/05/19	3:00	52.7	72.1	63.0	55.8	47.6	43.1	35.6	0.0	13.7	---	0.0
Fri 10/05/19	4:00	55.9	74.6	64.5	60.0	51.3	46.7	40.2	0.0	13.6	---	0.0
Fri 10/05/19	5:00	57.8	73.1	66.1	61.2	55.3	50.2	44.5	0.0	14.2	---	0.0
Fri 10/05/19	6:00	59.8	75.3	66.2	62.6	58.2	54.8	49.8	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	61.9	92.7	68.5	63.3	59.1	55.7	50.6	0.0	16.0	S	0.0
Fri 10/05/19	8:00	60.2	86.8	66.2	62.5	58.3	55.3	50.6	0.0	18.1	S	0.0
Fri 10/05/19	9:00	61.0	86.5	68.9	62.1	57.8	54.8	51.1	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	61.6	93.3	69.0	62.7	58.6	55.5	51.3	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	61.2	86.2	66.6	62.8	58.9	55.4	50.0	0.0	24.3	S	0.0
Fri 10/05/19	12:00	61.1	90.7	66.2	62.9	59.2	56.2	52.1	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	61.7	79.0	67.9	63.9	60.4	57.7	52.8	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	60.9	74.4	66.8	63.6	59.8	55.2	50.0	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	58.2	78.5	65.0	60.1	57.1	54.1	50.2	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	58.4	75.7	65.9	59.9	56.8	54.5	51.2	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	58.4	76.6	65.7	60.1	57.0	55.1	50.3	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	58.7	81.4	66.1	59.9	56.8	54.4	50.8	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	59.1	79.3	65.0	61.2	58.0	55.7	52.0	0.0	22.9	W	0.4
Fri 10/05/19	20:00	65.2	78.8	75.0	71.6	56.2	52.1	46.9	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	57.1	72.3	63.9	60.0	55.3	52.4	47.9	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	56.0	70.2	63.7	58.2	54.2	51.3	45.9	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	55.6	68.1	62.7	58.2	54.1	50.7	44.3	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	53.9	70.2	60.5	56.7	52.5	48.9	42.6	0.0	18.8	WSW	1.8

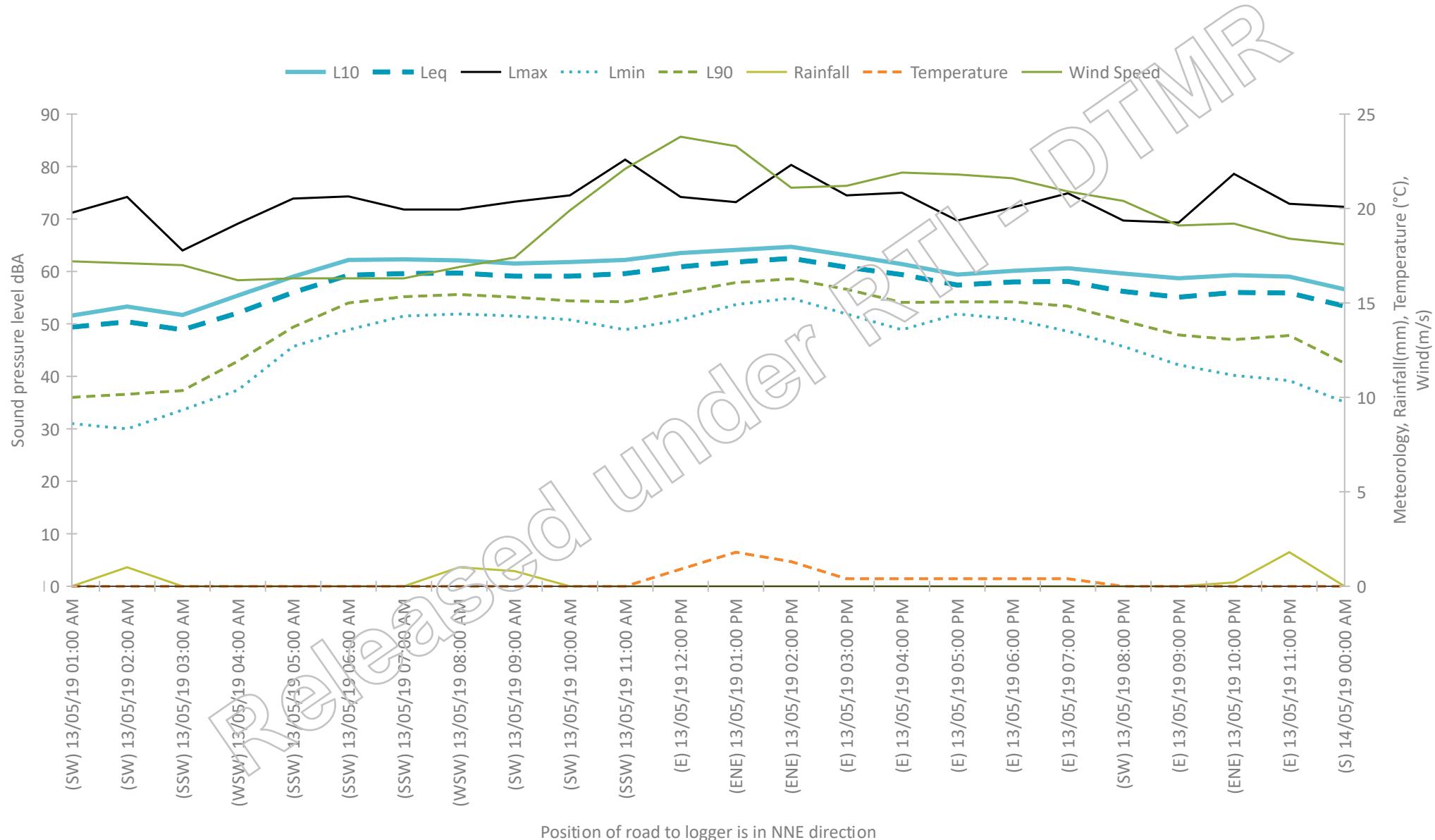
## Project 620.11007.00500 Version 1.0 87 Playford Street BRACKEN RIDGE 10/05/2019



Address	87 Playford Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.1</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	58.3 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	58.3 dBA
State Road	Gateway Motorway	Distance	86 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.2 dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	44.2 dBA
Instrument serial no	8781C7	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	50.5 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	62.6 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	49.4	71.2	60.6	51.6	42.6	36.0	31.0	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	50.4	74.2	61.4	53.3	43.1	36.6	30.0	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	48.9	64.0	60.3	51.7	42.5	37.3	33.6	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	52.1	69.1	62.1	55.4	48.1	42.9	37.4	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	56.0	73.9	64.2	59.0	53.0	49.4	45.7	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	59.3	74.3	65.8	62.2	57.8	54.0	48.9	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	59.6	71.8	65.6	62.3	58.2	55.2	51.5	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	59.7	71.8	65.8	62.1	58.5	55.6	51.9	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	59.1	73.3	65.6	61.5	57.7	55.1	51.5	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	59.1	74.5	65.8	61.8	57.5	54.4	50.8	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	59.6	81.3	66.7	62.2	58.0	54.2	48.9	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	60.9	74.2	67.3	63.5	59.4	56.0	50.8	0.0	23.8	E	0.9
Mon 13/05/19	13:00	61.8	73.2	67.5	64.1	60.8	57.9	53.7	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	62.5	80.3	68.0	64.7	61.5	58.6	54.9	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	60.8	74.5	66.9	63.1	59.7	56.6	51.9	0.0	21.2	E	0.4
Mon 13/05/19	16:00	59.4	75.0	68.3	61.4	57.5	54.1	48.9	0.0	21.9	E	0.4
Mon 13/05/19	17:00	57.4	69.7	63.9	59.4	56.3	54.2	51.9	0.0	21.8	E	0.4
Mon 13/05/19	18:00	58.0	72.2	64.4	60.1	56.7	54.2	50.9	0.0	21.6	E	0.4
Mon 13/05/19	19:00	58.1	74.9	65.3	60.6	56.6	53.4	48.6	0.0	20.9	E	0.4
Mon 13/05/19	20:00	56.2	69.7	64.0	59.6	53.8	50.6	45.7	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	55.1	69.3	63.9	58.7	52.0	47.9	42.2	0.0	19.1	E	0.0
Mon 13/05/19	22:00	56.0	78.6	64.2	59.3	52.8	47.0	40.2	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	55.9	72.9	64.8	59.0	53.1	47.8	39.2	1.8	18.4	E	0.0
Tue 14/05/19	0:00	53.4	72.3	62.9	56.6	48.8	42.5	35.1	0.0	18.1	S	0.0

## Project 620.11007.00500 Version 1.0 87 Playford Street BRACKEN RIDGE 13/05/2019



N/R

# Site 9 - 85 Kyeema Crescent, Bald Hills

The noise measurement data at 85 Kyeema Cres BALD HILLS was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 21.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 17/05/2019 to 21/05/2019 respectively.

**Table 21: Measured road traffic noise levels at 85 Kyeema Cres BALD HILLS 4036**

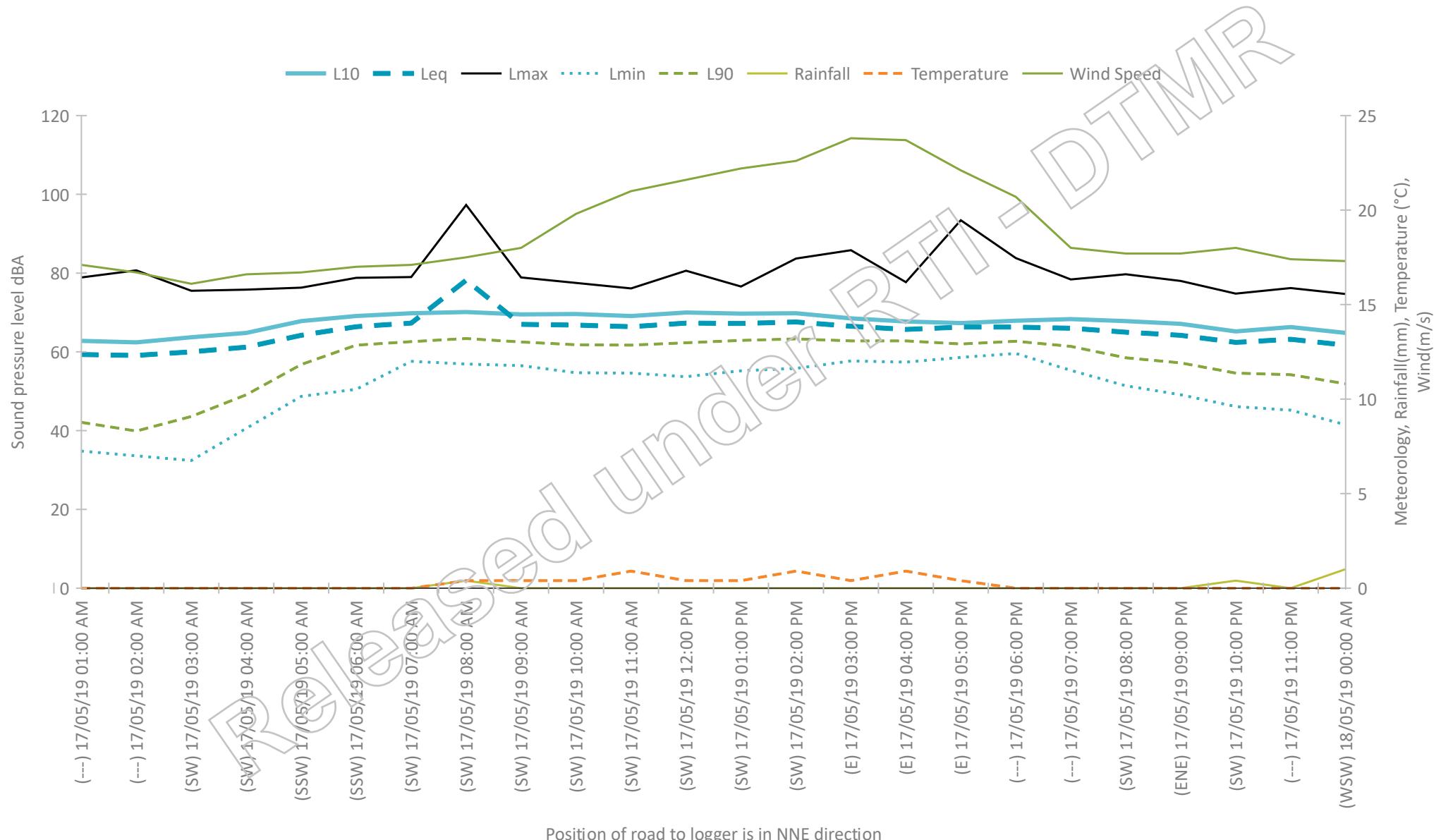
Facade corrected LA10 (18hr) dBA	
Friday 17/05/19	68.3
Monday 20/05/19	68.3

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	85 Kyeema Cres		AADT	74217	<b>LA10 (18 hour)</b>	<b>68.3</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	67.8	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	63.4	dBA	
State Road	Gateway Motorway		Distance	54 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	69.1	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.8 m	LA90 (8 hour)	48.5	dBA
Instrument serial no	878053	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.6	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 69.7 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 17/05/19	1:00	59.3	78.9	70.3	62.8	53.0	42.1	34.8	0.0	17.1	---	0.0
Fri 17/05/19	2:00	59.1	80.7	70.5	62.4	50.4	39.9	33.6	0.0	16.7	---	0.0
Fri 17/05/19	3:00	60.0	75.5	70.6	63.7	53.7	43.6	32.4	0.0	16.1	SW	0.0
Fri 17/05/19	4:00	61.2	75.8	71.5	64.8	56.2	49.1	40.6	0.0	16.6	SW	0.0
Fri 17/05/19	5:00	64.2	76.3	72.0	67.8	61.8	56.8	48.7	0.0	16.7	SSW	0.0
Fri 17/05/19	6:00	66.4	78.8	72.2	69.1	65.1	61.7	50.5	0.0	17.0	SSW	0.0
Fri 17/05/19	7:00	67.3	79.0	72.8	69.8	66.3	62.6	57.6	0.0	17.1	SW	0.0
Fri 17/05/19	8:00	78.2	97.3	94.1	70.1	66.9	63.4	56.9	0.4	17.5	SW	0.4
Fri 17/05/19	9:00	67.0	78.9	72.5	69.5	66.1	62.5	56.5	0.0	18.0	SW	0.4
Fri 17/05/19	10:00	66.8	77.5	72.9	69.6	65.5	61.8	54.7	0.0	19.8	SW	0.4
Fri 17/05/19	11:00	66.4	76.1	72.3	69.1	65.2	61.7	54.6	0.0	21.0	SW	0.9
Fri 17/05/19	12:00	67.3	80.6	73.3	70.0	66.2	62.3	53.7	0.0	21.6	SW	0.4
Fri 17/05/19	13:00	67.2	76.6	72.7	69.7	66.2	62.9	55.2	0.0	22.2	SW	0.4
Fri 17/05/19	14:00	67.6	83.7	73.2	69.8	66.6	63.3	55.8	0.0	22.6	SW	0.9
Fri 17/05/19	15:00	66.5	85.8	72.0	68.5	65.5	62.8	57.7	0.0	23.8	E	0.4
Fri 17/05/19	16:00	65.7	77.7	70.3	67.7	65.1	62.8	57.4	0.0	23.7	E	0.9
Fri 17/05/19	17:00	66.3	93.4	71.1	67.3	64.3	62.0	58.6	0.0	22.1	E	0.4
Fri 17/05/19	18:00	66.3	83.8	73.3	67.9	65.0	62.7	59.6	0.0	20.7	---	0.0
Fri 17/05/19	19:00	66.0	78.4	72.3	68.3	64.9	61.4	55.3	0.0	18.0	---	0.0
Fri 17/05/19	20:00	65.0	79.7	72.4	67.8	63.4	58.5	51.4	0.0	17.7	SW	0.0
Fri 17/05/19	21:00	64.2	78.0	71.7	67.1	62.5	57.2	49.1	0.0	17.7	ENE	0.0
Fri 17/05/19	22:00	62.4	74.8	70.2	65.2	60.8	54.6	46.1	0.4	18.0	SW	0.0
Fri 17/05/19	23:00	63.2	76.2	71.5	66.3	61.1	54.2	45.2	0.0	17.4	---	0.0
Sat 18/05/19	0:00	61.7	74.7	70.6	64.8	59.3	51.9	41.5	1.0	17.3	WSW	0.0

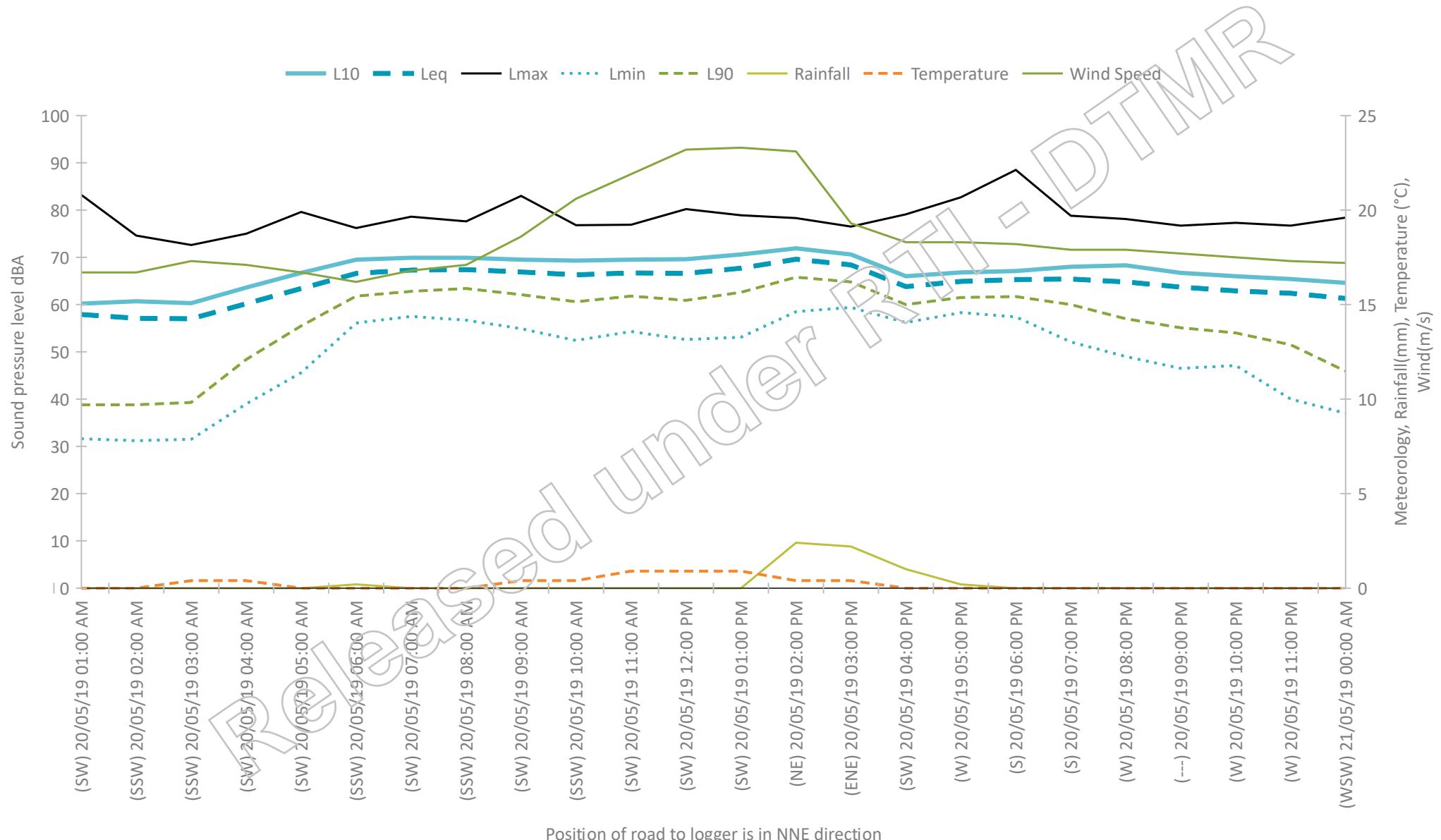
## Project 620.11007.00500 Version 1.0 85 Kyeema Cres BALD HILLS 17/05/2019



Address	85 Kyeema Cres		AADT	74217	<b>LA10 (18 hour)</b>	<b>68.3</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	65.4	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	62.4	dBA	
State Road	Gateway Motorway		Distance	54 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	69.2	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.8 m	LA90 (8 hour)	48.7	dBA
Instrument serial no	878053	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	56.4	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 69.8 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 20/05/19	1:00	57.9	83.2	69.0	60.2	48.5	38.8	31.6	0.0	16.7	SW	0.0
Mon 20/05/19	2:00	57.1	74.6	69.0	60.7	47.2	38.8	31.2	0.0	16.7	SSW	0.0
Mon 20/05/19	3:00	57.0	72.6	68.8	60.3	49.0	39.3	31.5	0.0	17.3	SSW	0.4
Mon 20/05/19	4:00	60.2	75.0	70.2	63.6	55.5	48.4	39.0	0.0	17.1	SW	0.4
Mon 20/05/19	5:00	63.4	79.6	71.8	66.7	61.0	55.5	45.6	0.0	16.7	SW	0.0
Mon 20/05/19	6:00	66.6	76.2	72.9	69.5	65.2	61.8	56.1	0.2	16.2	SSW	0.0
Mon 20/05/19	7:00	67.3	78.6	72.9	69.9	66.2	62.8	57.5	0.0	16.8	SW	0.0
Mon 20/05/19	8:00	67.4	77.6	72.8	69.9	66.5	63.4	56.7	0.0	17.1	SSW	0.0
Mon 20/05/19	9:00	66.9	83.0	72.4	69.5	65.8	62.1	54.9	0.0	18.6	SW	0.4
Mon 20/05/19	10:00	66.3	76.8	72.5	69.3	65.1	60.6	52.4	0.0	20.6	SSW	0.4
Mon 20/05/19	11:00	66.7	76.9	72.6	69.5	65.4	61.8	54.3	0.0	21.9	SW	0.9
Mon 20/05/19	12:00	66.6	80.2	73.1	69.6	65.2	60.9	52.6	0.0	23.2	SW	0.9
Mon 20/05/19	13:00	67.7	78.9	73.6	70.6	66.3	62.6	53.1	0.0	23.3	SW	0.9
Mon 20/05/19	14:00	69.6	78.3	74.7	71.9	68.7	65.8	58.5	2.4	23.1	NE	0.4
Mon 20/05/19	15:00	68.4	76.5	73.2	70.6	67.7	64.8	59.4	2.2	19.3	ENE	0.4
Mon 20/05/19	16:00	63.8	79.1	69.6	66.0	62.8	60.0	56.2	1.0	18.3	SW	0.0
Mon 20/05/19	17:00	64.9	82.7	71.5	66.8	63.7	61.5	58.3	0.2	18.3	W	0.0
Mon 20/05/19	18:00	65.3	88.5	70.2	67.1	64.4	61.7	57.4	0.0	18.2	S	0.0
Mon 20/05/19	19:00	65.4	78.8	72.3	68.0	64.1	60.0	52.1	0.0	17.9	S	0.0
Mon 20/05/19	20:00	64.8	78.1	72.8	68.3	62.4	57.0	49.0	0.0	17.9	W	0.0
Mon 20/05/19	21:00	63.7	76.7	72.3	66.7	61.3	55.1	46.5	0.0	17.7	---	0.0
Mon 20/05/19	22:00	62.9	77.3	71.7	66.0	60.6	54.0	47.1	0.0	17.5	W	0.0
Mon 20/05/19	23:00	62.4	76.7	71.7	65.4	59.4	51.5	40.0	0.0	17.3	W	0.0
Tue 21/05/19	0:00	61.3	78.4	71.3	64.6	56.8	45.9	37.0	0.0	17.2	WSW	0.0

## Project 620.11007.00500 Version 1.0 85 Kyeema Cres BALD HILLS 20/05/2019



N/R

# Site 10 - 24/131 Quinlan Street, Bracken Ridge

The noise measurement data at 24/131 Quinlan St BRACKEN RIDGE was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 22.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

**Table 22: Measured road traffic noise levels at 24/131 Quinlan St BRACKEN RIDGE 2017**

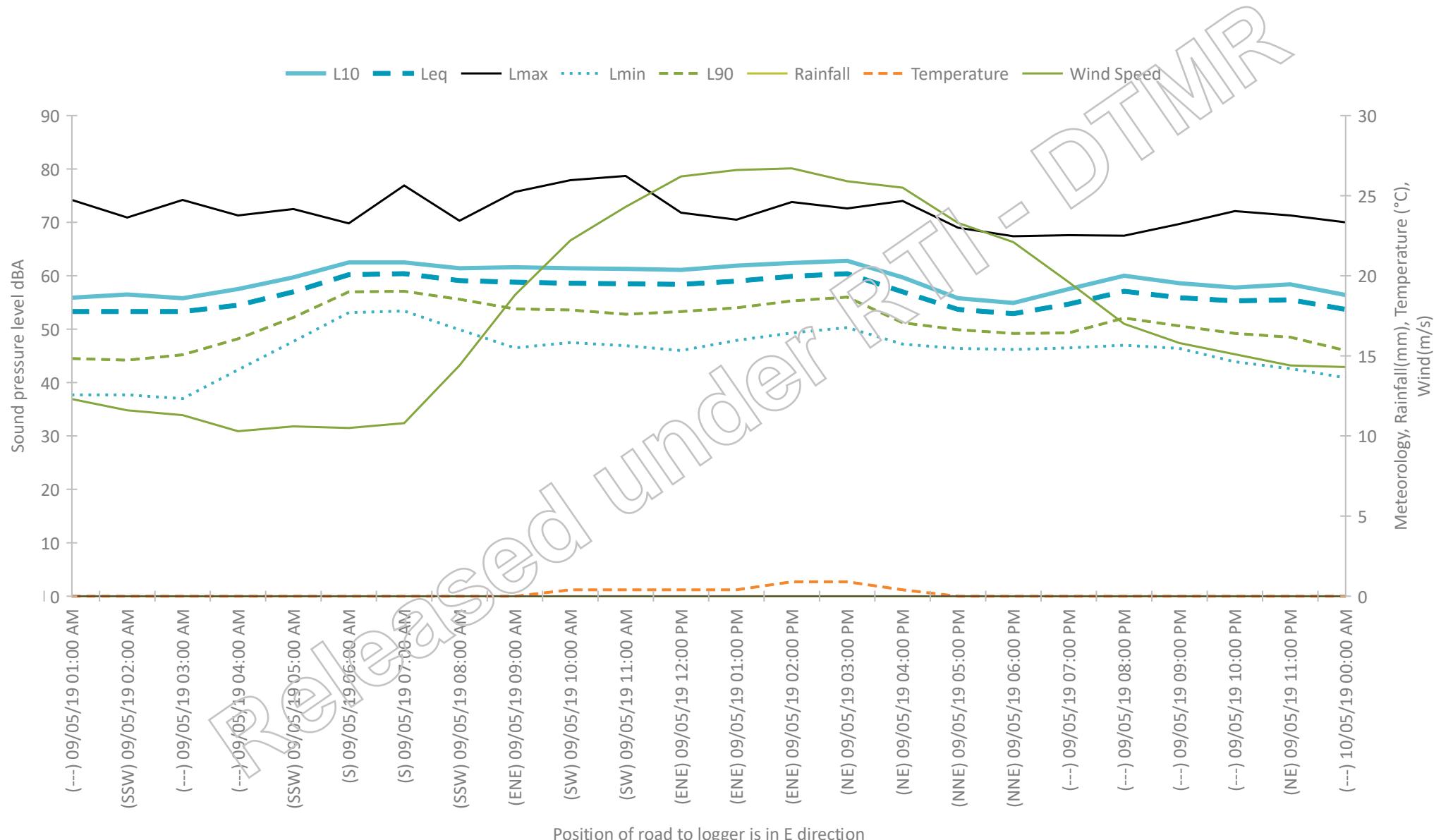
Facade corrected LA10 (18hr) dBA	
Thursday 09/05/19	59.8
Friday 10/05/19	59.8
Monday 13/05/19	60.6
Tuesday 14/05/19	60.2
Wednesday 15/05/19	60.7

The level results were consistent, within the assessment area, with all 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	24/131 Quinlan St	AADT	74217	<b>LA10 (18 hour)</b>	<b>59.8</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	57.4 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	59.1 dBA	
State Road	Gateway Motorway	Distance	31 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	60.6 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	46.9 dBA	
Instrument serial no	8781DD	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.2 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 61.2 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	53.3	74.2	62.5	55.9	50.1	44.5	37.7	0.0	12.3	---	0.0
Thu 09/05/19	2:00	53.3	70.9	63.4	56.5	49.1	44.2	37.7	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	53.3	74.2	62.8	55.8	49.9	45.2	37.0	0.0	11.3	---	0.0
Thu 09/05/19	4:00	54.5	71.3	62.9	57.5	52.0	48.2	42.4	0.0	10.3	---	0.0
Thu 09/05/19	5:00	57.0	72.5	63.5	59.7	55.5	52.2	47.7	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	60.2	69.8	65.5	62.5	59.2	57.0	53.1	0.0	10.5	S	0.0
Thu 09/05/19	7:00	60.4	76.9	65.6	62.5	59.3	57.1	53.4	0.0	10.8	S	0.0
Thu 09/05/19	8:00	59.1	70.3	64.3	61.4	58.1	55.6	49.9	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	58.8	75.7	65.5	61.6	57.1	53.8	46.5	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	58.6	77.9	64.4	61.4	57.2	53.6	47.5	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	58.5	78.7	65.2	61.3	56.9	52.8	46.9	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	58.4	71.8	64.7	61.1	57.0	53.3	46.0	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	59.0	70.5	65.0	61.9	57.7	54.0	47.9	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	59.9	73.8	66.4	62.4	58.5	55.3	49.3	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	60.4	72.6	66.2	62.8	59.4	56.0	50.3	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	57.0	74.0	65.6	59.7	54.5	51.2	47.2	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	53.7	69.0	60.5	55.8	52.5	49.9	46.4	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	52.9	67.4	59.6	54.9	51.5	49.2	46.2	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	54.7	67.6	62.0	57.5	52.7	49.3	46.5	0.0	19.6	---	0.0
Thu 09/05/19	20:00	57.1	67.5	63.8	60.0	55.6	52.1	47.0	0.0	17.0	---	0.0
Thu 09/05/19	21:00	55.9	69.7	63.1	58.6	54.1	50.6	46.4	0.0	15.8	---	0.0
Thu 09/05/19	22:00	55.3	72.1	63.1	57.8	53.1	49.2	43.9	0.0	15.1	---	0.0
Thu 09/05/19	23:00	55.5	71.3	63.9	58.4	53.0	48.5	42.6	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	53.7	70.0	62.6	56.4	51.2	46.0	40.9	0.0	14.3	---	0.0

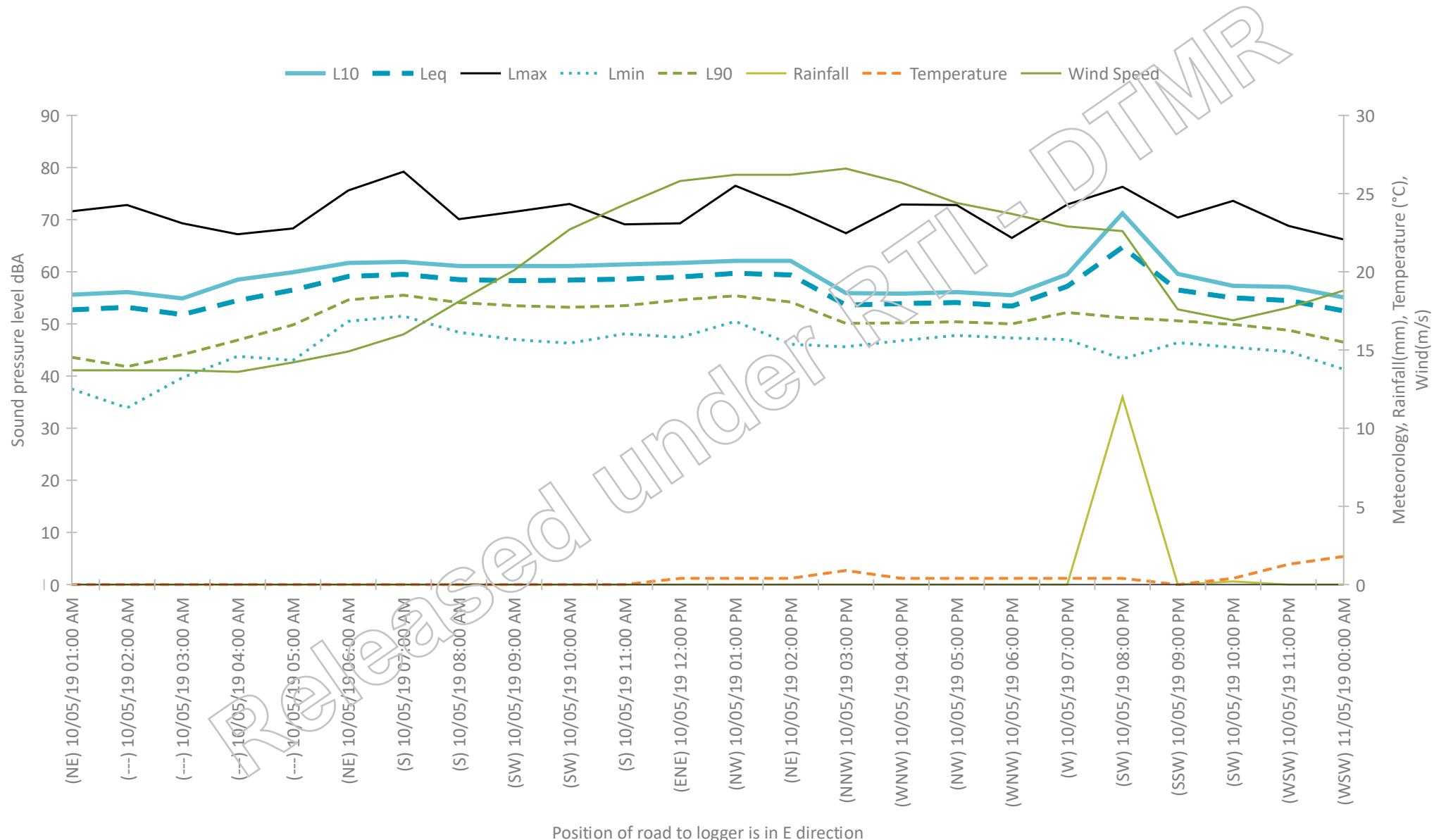
## Project 620.11007.00500 Version 1.0 131 Quinlan St BRACKEN RIDGE 9/05/2019



Address	24/131 Quinlan St		AADT	74217	<b>LA10 (18 hour)</b>	<b>59.8</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	57.7 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	54.5 dBA	
State Road	Gateway Motorway		Distance	31 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	59.7 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	45.3 dBA
Instrument serial no	8781DD	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	50.6 dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 61.2 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	52.7	71.6	62.7	55.6	49.0	43.6	37.5	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	53.2	72.8	64.1	56.1	47.2	41.8	33.9	0.0	13.7	---	0.0
Fri 10/05/19	3:00	51.8	69.3	61.3	54.9	48.0	44.1	39.7	0.0	13.7	---	0.0
Fri 10/05/19	4:00	54.5	67.2	62.8	58.5	51.3	46.9	43.8	0.0	13.6	---	0.0
Fri 10/05/19	5:00	56.5	68.3	63.6	59.9	54.5	49.8	43.0	0.0	14.2	---	0.0
Fri 10/05/19	6:00	59.1	75.6	64.9	61.7	57.8	54.6	50.5	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	59.5	79.2	64.9	61.9	58.4	55.5	51.5	0.0	16.0	S	0.0
Fri 10/05/19	8:00	58.5	70.1	64.3	61.1	57.3	54.1	48.4	0.0	18.1	S	0.0
Fri 10/05/19	9:00	58.3	71.5	64.8	61.1	56.8	53.5	47.0	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	58.4	73.0	64.9	61.1	57.0	53.2	46.3	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	58.6	69.1	64.3	61.4	57.4	53.5	48.1	0.0	24.3	S	0.0
Fri 10/05/19	12:00	59.0	69.3	65.0	61.7	57.8	54.6	47.4	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	59.7	76.5	65.6	62.1	58.5	55.4	50.5	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	59.4	72.2	65.3	62.1	58.4	54.2	46.1	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	53.6	67.4	59.3	55.9	52.5	50.1	45.6	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	53.9	72.9	60.1	55.8	52.8	50.2	46.8	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	54.1	72.8	60.4	56.1	52.6	50.4	47.8	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	53.4	66.5	58.8	55.5	52.4	50.0	47.3	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	57.2	72.9	63.2	59.5	56.1	52.2	47.0	0.0	22.9	W	0.4
Fri 10/05/19	20:00	64.7	76.3	73.7	71.2	55.6	51.2	43.3	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	56.5	70.4	63.6	59.6	54.7	50.6	46.4	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	55.0	73.6	62.3	57.3	53.5	49.9	45.5	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	54.5	68.8	61.8	57.1	53.0	48.8	44.7	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	52.5	66.2	60.6	55.1	50.7	46.5	41.3	0.0	18.8	WSW	1.8

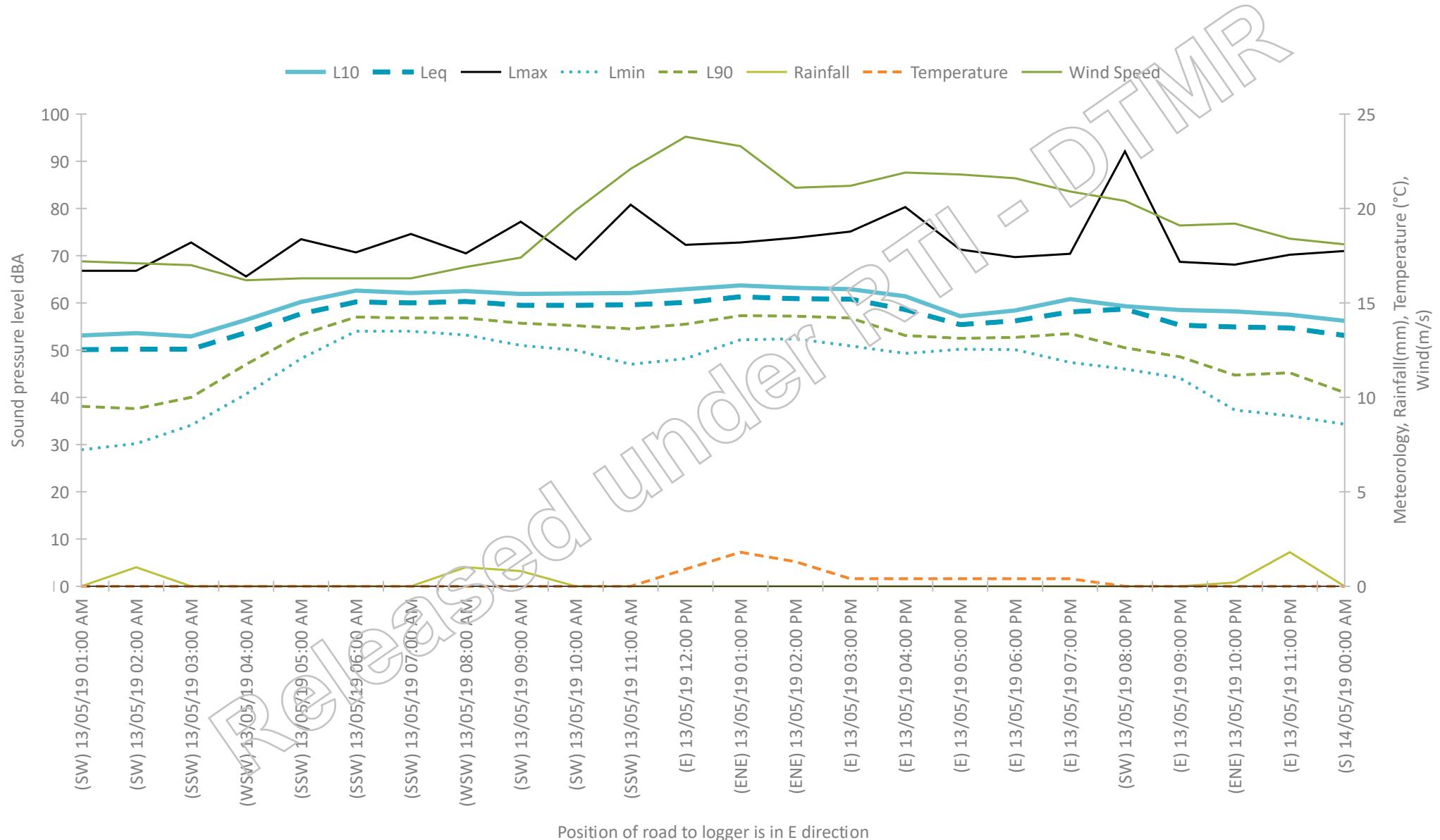
## Project 620.11007.00500 Version 1.0 131 Quinlan St BRACKEN RIDGE 10/05/2019



Address	24/131 Quinlan St		AADT	74217	<b>LA10 (18 hour)</b>	<b>60.6</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	58.2	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	59.3	dBA	
State Road	Gateway Motorway		Distance	31 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	61.7	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	45.6	dBA
Instrument serial no	8781DD	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	50.9	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 62.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	50.1	66.8	61.3	53.1	44.7	38.1	28.9	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	50.2	66.8	61.3	53.6	44.0	37.6	30.2	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	50.2	72.8	60.9	52.9	45.5	40.0	34.1	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	53.7	65.6	62.5	56.4	51.4	47.0	40.7	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	57.7	73.5	64.2	60.2	56.2	53.3	48.2	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	60.2	70.7	65.1	62.6	59.2	57.0	54.0	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	60.0	74.6	65.1	62.1	59.0	56.8	54.0	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	60.3	70.5	64.9	62.5	59.4	56.8	53.2	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	59.5	77.2	65.1	61.9	58.4	55.7	51.0	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	59.5	69.2	65.3	62.0	58.4	55.2	50.0	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	59.6	80.8	65.5	62.1	58.3	54.5	47.0	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	60.1	72.3	65.7	62.9	59.1	55.5	48.2	0.0	23.8	E	0.9
Mon 13/05/19	13:00	61.3	72.8	66.6	63.7	60.3	57.3	52.2	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	60.9	73.8	66.0	63.2	60.1	57.2	52.4	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	60.8	75.1	66.4	62.9	59.9	56.8	50.9	0.0	21.2	E	0.4
Mon 13/05/19	16:00	58.6	80.3	65.1	61.4	57.1	53.1	49.3	0.0	21.9	E	0.4
Mon 13/05/19	17:00	55.4	71.3	60.4	57.2	54.6	52.5	50.2	0.0	21.8	E	0.4
Mon 13/05/19	18:00	56.2	69.7	62.4	58.4	54.9	52.7	50.1	0.0	21.6	E	0.4
Mon 13/05/19	19:00	58.1	70.4	64.3	60.8	56.9	53.5	47.4	0.0	20.9	E	0.4
Mon 13/05/19	20:00	58.7	92.1	63.7	59.3	54.3	50.5	46.0	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	55.3	68.7	63.4	58.5	53.0	48.6	44.1	0.0	19.1	E	0.0
Mon 13/05/19	22:00	54.9	68.1	63.7	58.2	52.1	44.7	37.3	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	54.7	70.2	63.4	57.5	52.4	45.2	36.1	1.8	18.4	E	0.0
Tue 14/05/19	0:00	53.1	71.0	63.0	56.2	49.3	41.0	34.3	0.0	18.1	S	0.0

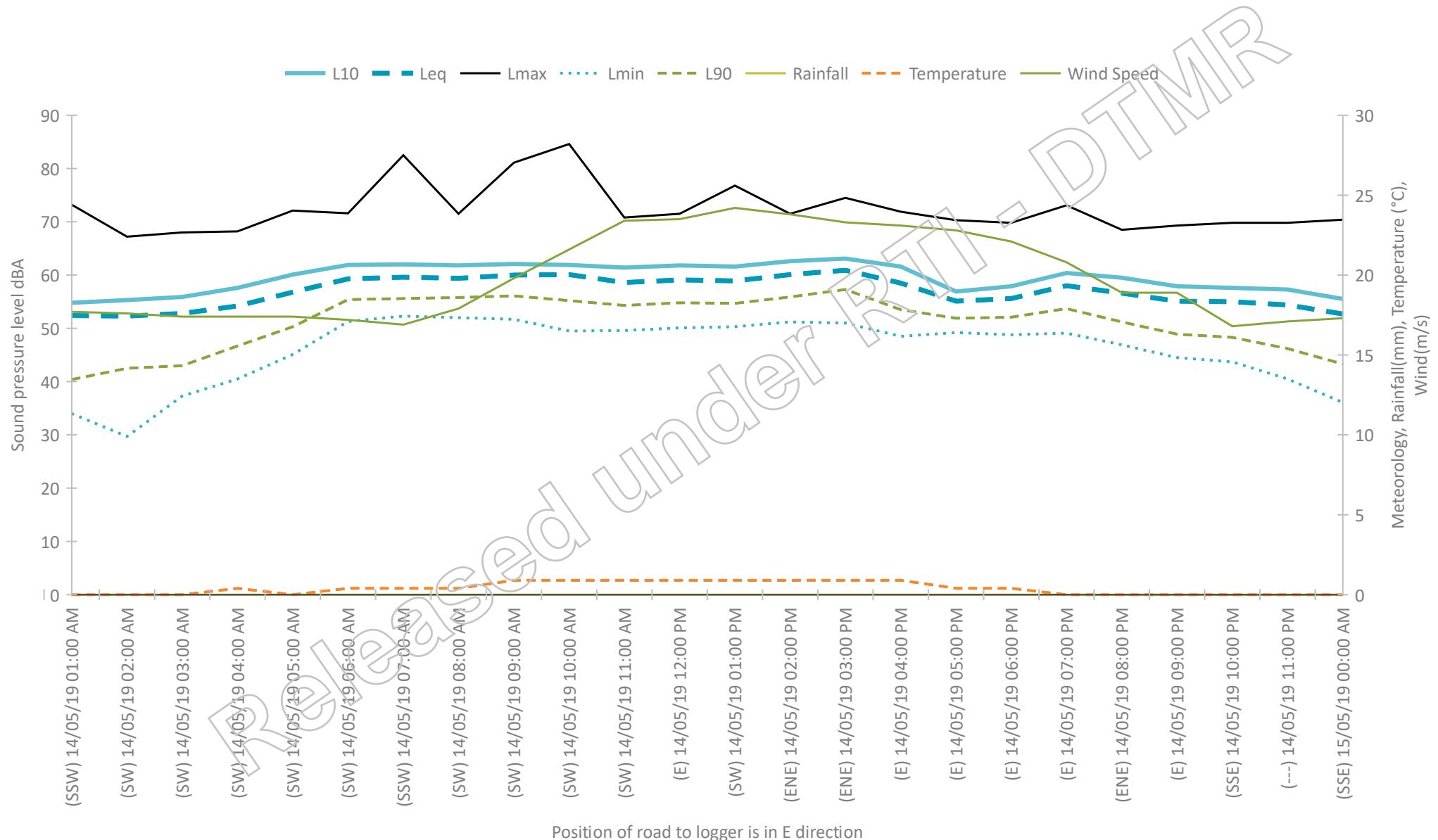
## Project 620.11007.00500 Version 1.0 131 Quinlan St BRACKEN RIDGE 13/05/2019



Address	24/131 Quinlan St	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.2</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	57.7	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	59.5	dBA
State Road	Gateway Motorway	Distance	31 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	61.2	dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	45.4	dBA
Instrument serial no	8781DD	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.1	dBA
Time scale	60 mins	Operator	N/R	Prediction based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	52.4	73.2	63.2	54.8	47.2	40.4	34.0	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	52.3	67.2	62.5	55.3	47.9	42.5	29.7	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	52.8	68.0	62.7	55.9	48.7	43.0	37.3	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	54.2	68.2	62.6	57.6	51.5	46.7	40.5	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	56.8	72.1	63.9	60.1	54.7	50.3	45.1	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	59.3	71.6	64.6	61.9	58.3	55.4	51.3	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	59.6	82.5	64.7	62.0	58.5	55.6	52.3	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	59.4	71.5	64.8	61.8	58.4	55.8	52.0	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	60.0	81.1	65.2	62.1	58.6	56.1	51.7	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	60.1	84.6	65.8	61.9	57.9	55.2	49.5	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	58.6	70.8	64.2	61.4	57.5	54.3	49.6	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	59.1	71.5	64.9	61.8	57.9	54.8	50.1	0.0	23.5	E	0.9
Tue 14/05/19	13:00	58.9	76.8	64.7	61.6	57.6	54.7	50.3	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	60.1	71.5	65.8	62.6	59.1	55.9	51.2	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	60.9	74.5	65.8	63.1	60.0	57.3	51.0	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	58.5	71.9	64.6	61.6	56.9	53.5	48.5	0.0	23.1	E	0.9
Tue 14/05/19	17:00	55.1	70.3	60.8	56.9	54.2	51.9	49.2	0.0	22.8	E	0.4
Tue 14/05/19	18:00	55.6	69.8	61.7	57.9	54.4	52.1	48.8	0.0	22.1	E	0.4
Tue 14/05/19	19:00	58.0	73.1	64.1	60.4	56.9	53.7	49.1	0.0	20.8	E	0.0
Tue 14/05/19	20:00	56.6	68.5	64.2	59.5	54.7	51.2	46.9	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	55.1	69.3	62.9	57.9	53.2	48.9	44.5	0.0	18.9	E	0.0
Tue 14/05/19	22:00	55.0	69.8	63.5	57.6	52.8	48.3	43.7	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	54.4	69.8	63.3	57.3	51.8	46.2	40.5	0.0	17.1	---	0.0
Wed 15/05/19	0:00	52.7	70.4	62.2	55.5	49.3	43.3	36.1	0.0	17.3	SSE	0.0

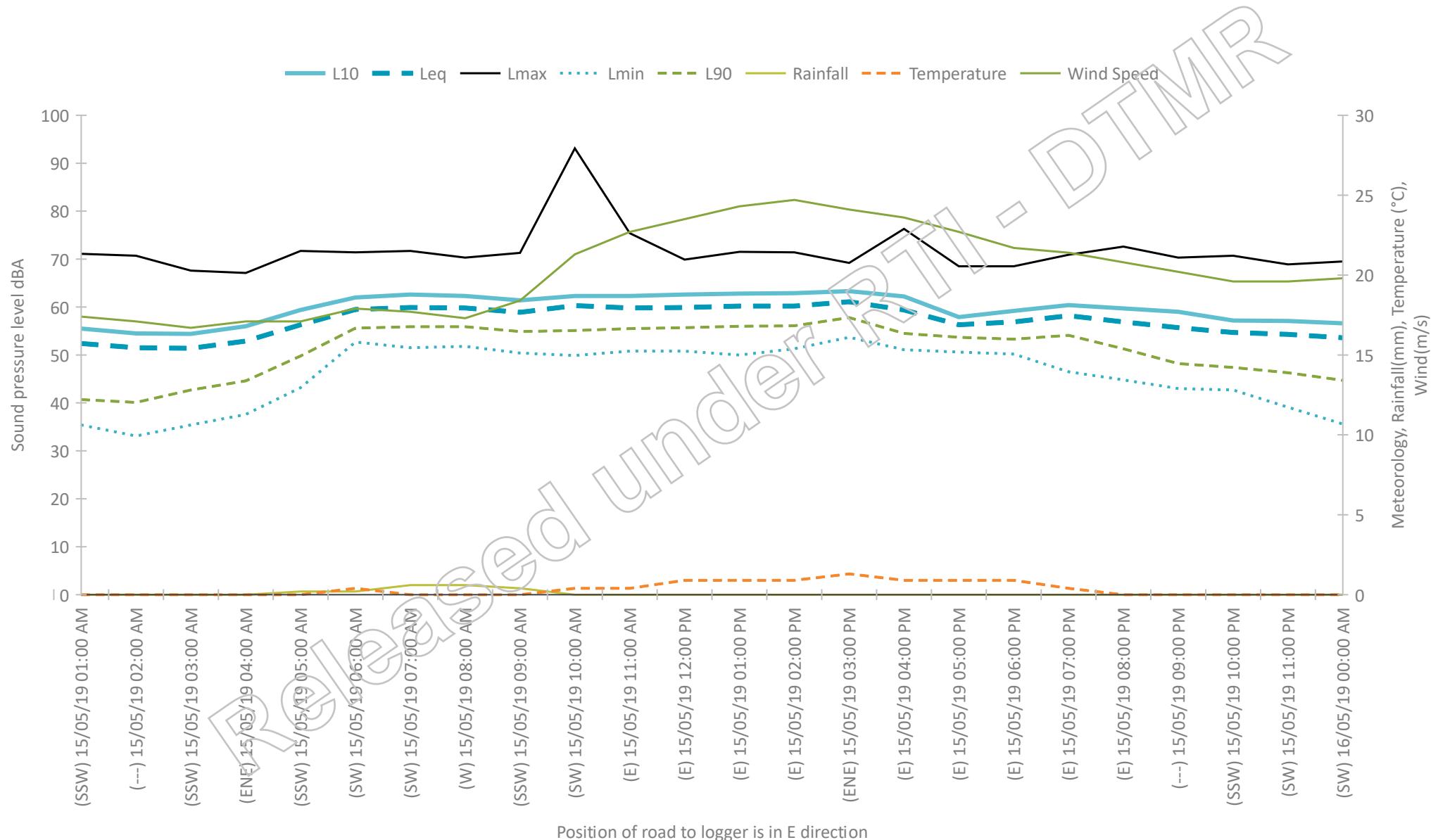
## Project 620.11007.00500 Version 1.0 131 Quinlan St BRACKEN RIDGE 14/05/2019



Address	24/131 Quinlan St		AADT	74217	<b>LA10 (18 hour)</b>	<b>60.7</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	58.0	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	54.3	dBA	
State Road	Gateway Motorway		Distance	31 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	61.8	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	42.1	dBA
Instrument serial no	8781DD	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.2	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 62.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	52.4	71.1	62.7	55.5	47.2	40.7	35.4	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	51.5	70.7	62.3	54.5	46.0	40.1	33.1	0.0	17.1	---	0.0
Wed 15/05/19	3:00	51.4	67.6	61.6	54.4	47.4	42.7	35.4	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	52.9	67.1	61.7	56.0	49.9	44.6	37.6	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	56.3	71.7	63.6	59.4	54.6	49.8	43.2	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	59.5	71.4	64.7	62.0	58.5	55.6	52.7	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	59.9	71.7	65.0	62.6	58.9	55.9	51.5	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	59.8	70.3	64.9	62.3	59.0	55.9	51.8	0.6	17.3	W	0.0
Wed 15/05/19	9:00	58.9	71.3	64.4	61.4	57.8	54.9	50.4	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	60.3	93.1	65.6	62.3	58.3	55.1	49.9	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	59.8	75.4	65.3	62.3	58.6	55.5	50.8	0.0	22.7	E	0.4
Wed 15/05/19	12:00	59.9	69.9	65.5	62.6	58.9	55.7	50.8	0.0	23.5	E	0.9
Wed 15/05/19	13:00	60.2	71.5	65.7	62.8	59.1	56.0	50.0	0.0	24.3	E	0.9
Wed 15/05/19	14:00	60.2	71.4	65.3	62.9	59.1	56.1	51.3	0.0	24.7	E	0.9
Wed 15/05/19	15:00	61.1	69.2	65.9	63.3	60.3	57.8	53.7	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	59.4	76.3	65.2	62.2	57.8	54.5	51.1	0.0	23.6	E	0.9
Wed 15/05/19	17:00	56.3	68.5	60.9	57.9	55.7	53.7	50.6	0.0	22.7	E	0.9
Wed 15/05/19	18:00	56.9	68.5	63.2	59.2	55.6	53.3	50.2	0.0	21.7	E	0.9
Wed 15/05/19	19:00	58.2	70.9	64.1	60.4	57.2	54.1	46.5	0.0	21.4	E	0.4
Wed 15/05/19	20:00	56.9	72.6	63.9	59.7	55.2	51.3	44.8	0.0	20.8	E	0.0
Wed 15/05/19	21:00	55.7	70.3	64.0	59.0	53.3	48.2	43.0	0.0	20.2	---	0.0
Wed 15/05/19	22:00	54.7	70.7	63.4	57.2	52.3	47.4	42.7	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	54.3	68.9	62.7	57.1	52.0	46.3	39.1	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	53.6	69.5	62.6	56.6	50.6	44.7	35.6	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 131 Quinlan St BRACKEN RIDGE 15/05/2019



N/R

Released under RTI - DTMR

# Site 11 - 57 Barrett Street, Bracken Ridge

The noise measurement data at 57 Barrett Street was collected in a free field location requiring a 2.5 dBA addition to calculate the façade corrected noise levels. The free field measured noise levels are shown in Table 23.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 9/05/2019 to 16/05/2019 respectively.

**Table 23: Measured road traffic noise levels at 57 Barrett Street BRACKEN RIDGE 4017**

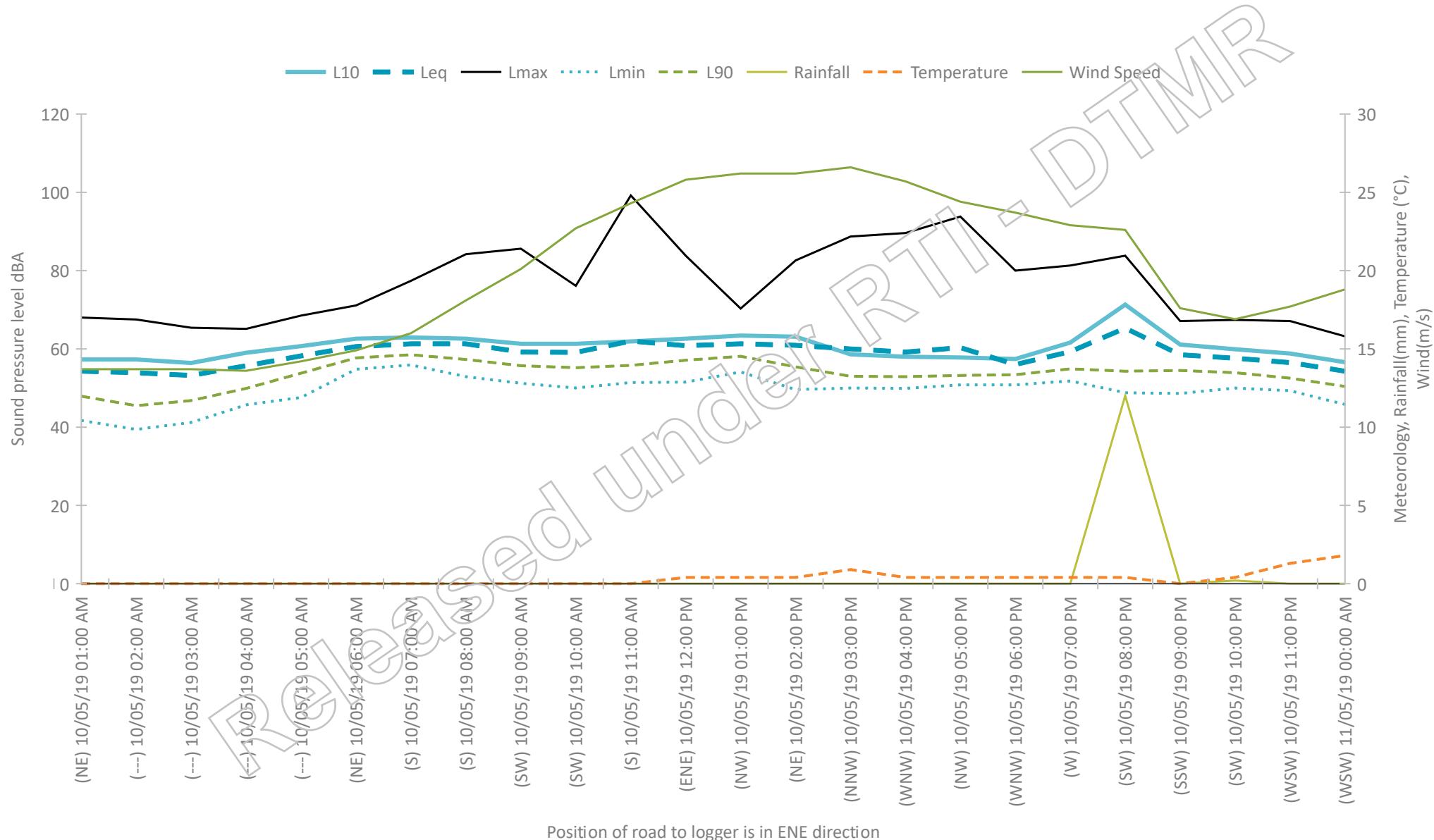
	Free field LA10 (18hr) dBA	Facade corrected LA10 (18hr) dBA +2.5dB
Friday 10/05/19	61.1	63.6
Monday 13/05/19	63.0	65.5
Tuesday 14/05/19	62.5	65.0
Wednesday 15/05/19	62.8	65.3

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	57 Barrett Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.1</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.7 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	56.5 dBA
State Road	Gateway Motorway	Distance	51 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	60.9 dBA
Instrument type	Ngara	Microphone height	2.4 m	LA90 (8 hour)	48.6 dBA
Instrument serial no	8781DF	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	53.7 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	62.6 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	54.3	68.0	62.1	57.3	52.1	47.9	41.7	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	53.9	67.5	63.2	57.3	50.4	45.5	39.4	0.0	13.7	---	0.0
Fri 10/05/19	3:00	53.2	65.4	61.2	56.4	50.8	46.8	41.2	0.0	13.7	---	0.0
Fri 10/05/19	4:00	55.7	65.1	62.3	59.0	53.9	49.9	45.7	0.0	13.6	---	0.0
Fri 10/05/19	5:00	58.2	68.5	63.6	60.7	57.3	53.8	47.6	0.0	14.2	---	0.0
Fri 10/05/19	6:00	60.6	71.1	64.5	62.6	59.9	57.7	54.8	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	61.3	77.4	65.2	62.9	60.5	58.5	55.9	0.0	16.0	S	0.0
Fri 10/05/19	8:00	61.3	84.2	67.0	62.6	59.7	57.3	52.9	0.0	18.1	S	0.0
Fri 10/05/19	9:00	59.2	85.6	63.9	61.3	58.3	55.7	51.2	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	59.1	76.1	63.9	61.3	58.3	55.2	50.0	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	62.0	99.2	64.5	61.9	59.0	55.8	51.4	0.0	24.3	S	0.0
Fri 10/05/19	12:00	60.8	83.8	65.4	62.6	59.8	57.1	51.5	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	61.3	70.3	66.0	63.4	60.5	58.1	54.1	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	60.9	82.6	65.5	63.1	60.3	55.4	49.6	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	60.0	88.7	63.8	58.6	55.4	53.0	50.0	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	59.2	89.6	63.0	58.0	55.1	52.9	49.9	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	60.3	93.8	68.5	57.8	55.1	53.2	50.8	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	56.0	80.0	60.3	57.4	55.2	53.4	50.8	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	59.3	81.3	64.9	61.6	58.5	54.9	51.8	0.0	22.9	W	0.4
Fri 10/05/19	20:00	65.3	83.8	74.1	71.3	57.9	54.3	48.8	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	58.5	67.1	64.1	61.1	57.4	54.5	48.6	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	57.6	67.4	63.2	59.9	56.6	53.9	50.0	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	56.5	67.1	61.9	58.8	55.5	52.5	49.3	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	54.3	63.2	60.0	56.6	53.5	50.4	45.8	0.0	18.8	WSW	1.8

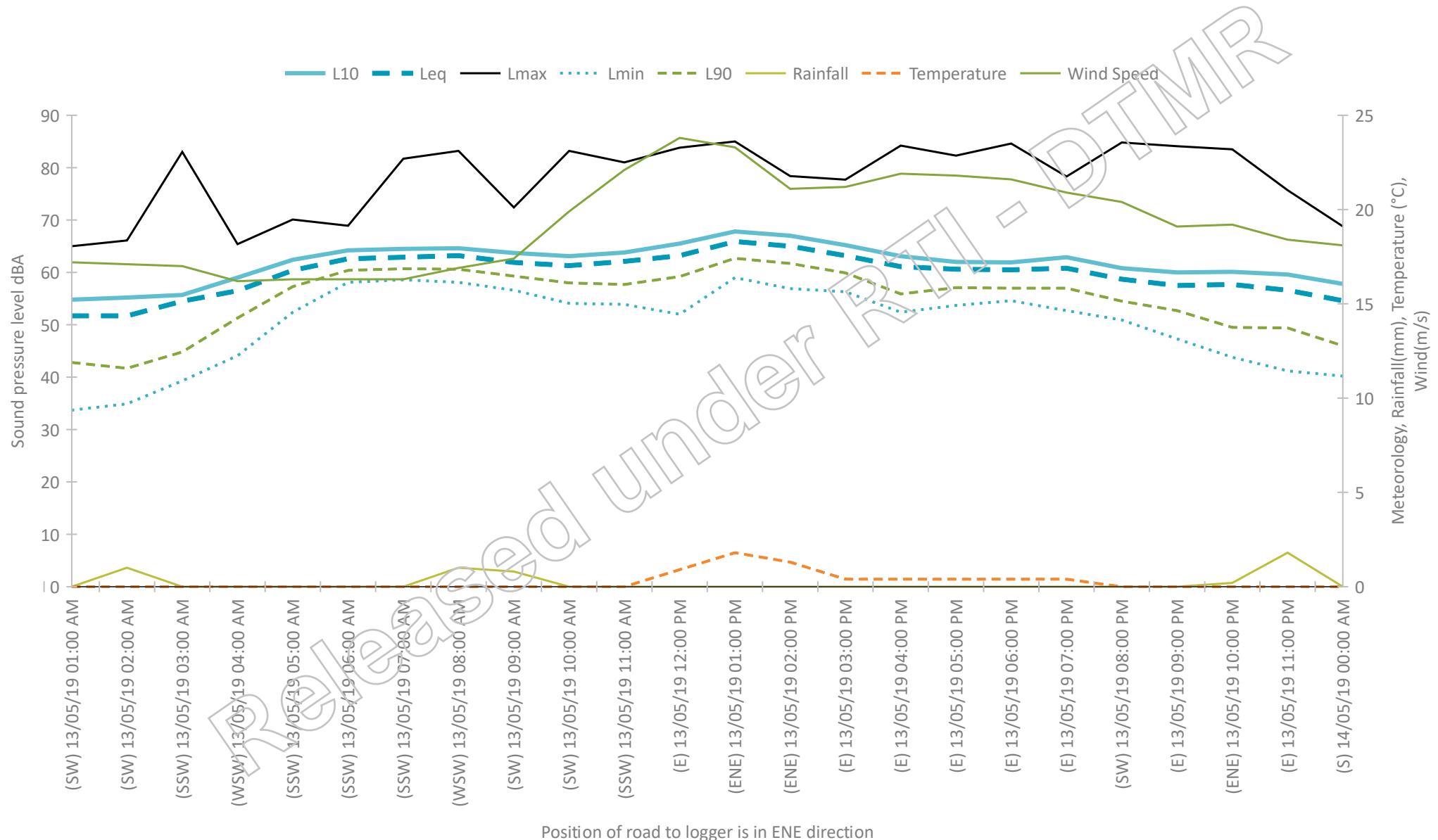
## Project 620.11007.00500 Version 1.0 57 Barrett Street BRACKEN RIDGE 10/05/2019



Address	57 Barrett Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>63.0</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	61.1	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	61.3	dBA
State Road	Gateway Motorway	Distance	51 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	64.4	dBA
Instrument type	Ngara	Microphone height	2.4 m	LA90 (8 hour)	49.7	dBA
Instrument serial no	8781DF	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	54.9	dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	64.5	dBA
				based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	51.7	65.0	61.0	54.8	48.7	42.8	33.7	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	51.7	66.1	61.7	55.2	47.9	41.7	34.9	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	54.5	83.0	62.0	55.7	49.7	44.8	39.3	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	56.5	65.4	63.2	59.0	55.2	51.3	44.1	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	60.4	70.1	64.8	62.4	59.8	57.3	52.4	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	62.6	68.9	65.9	64.2	62.1	60.4	58.1	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	62.9	81.7	67.3	64.5	62.2	60.7	58.6	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	63.2	83.2	67.6	64.6	62.4	60.6	58.1	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	61.9	72.4	65.9	63.7	61.4	59.3	56.6	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	61.3	83.2	65.9	63.1	60.4	58.0	54.1	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	62.1	81.0	70.5	63.8	60.5	57.7	53.9	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	63.2	83.8	68.1	65.5	62.3	59.2	52.0	0.0	23.8	E	0.9
Mon 13/05/19	13:00	65.9	85.0	70.4	67.8	65.0	62.7	59.0	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	65.0	78.4	69.0	67.0	64.4	61.7	56.9	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	63.2	77.7	68.8	65.2	62.2	59.9	56.3	0.0	21.2	E	0.4
Mon 13/05/19	16:00	61.1	84.2	67.6	63.1	59.2	55.9	52.4	0.0	21.9	E	0.4
Mon 13/05/19	17:00	60.6	82.3	67.5	62.0	59.4	57.1	53.7	0.0	21.8	E	0.4
Mon 13/05/19	18:00	60.5	84.6	65.7	61.9	59.1	57.0	54.6	0.0	21.6	E	0.4
Mon 13/05/19	19:00	60.8	78.3	65.5	62.9	60.0	57.0	52.7	0.0	20.9	E	0.4
Mon 13/05/19	20:00	58.7	84.8	64.2	60.8	57.3	54.5	50.9	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	57.5	84.1	63.6	60.0	56.0	52.7	47.3	0.0	19.1	E	0.0
Mon 13/05/19	22:00	57.7	83.5	65.4	60.1	54.9	49.5	43.8	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	56.6	75.7	64.4	59.6	54.9	49.4	41.2	1.8	18.4	E	0.0
Tue 14/05/19	0:00	54.6	68.8	63.0	57.8	52.0	46.0	40.2	0.0	18.1	S	0.0

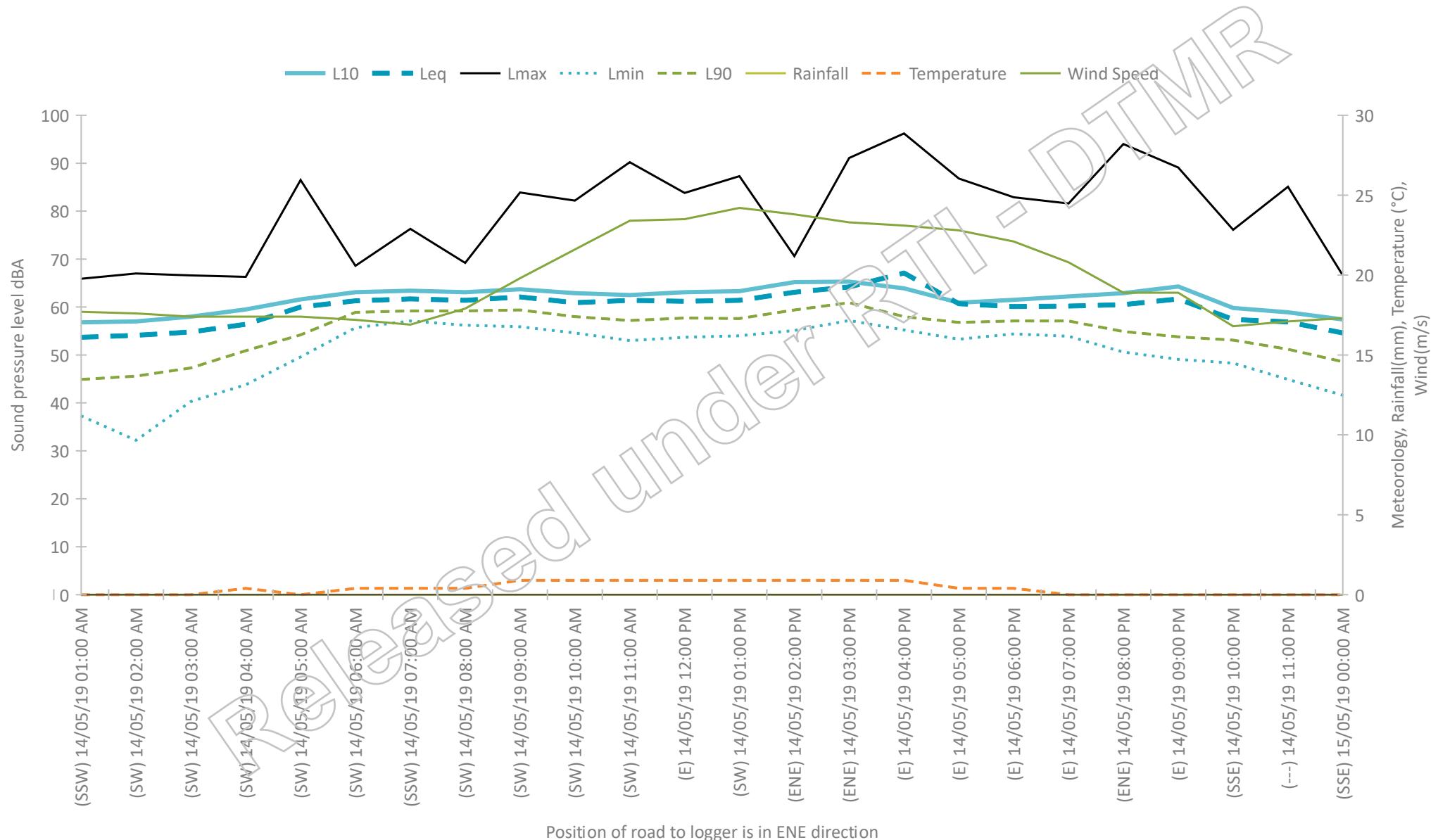
## Project 620.11007.00500 Version 1.0 57 Barrett Street BRACKEN RIDGE 13/05/2019



Address	57 Barrett Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>62.5</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	61.0 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	62.0 dBA	
State Road	Gateway Motorway	Distance	51 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.2 dBA	
Instrument type	Ngara	Microphone height	2.4 m	LA90 (8 hour)	49.9 dBA	
Instrument serial no	8781DF	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.0 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Free field		
				Predicted 10 year horizon LA10 (18 hour) 64.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	53.7	65.9	62.9	56.8	50.9	44.9	37.3	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	54.1	67.0	62.6	57.0	51.6	45.6	32.2	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	54.8	66.6	63.1	58.0	52.3	47.3	40.3	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	56.4	66.3	63.1	59.5	54.9	50.9	43.8	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	60.0	86.5	65.0	61.6	58.0	54.2	49.6	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	61.3	68.6	65.0	63.1	60.8	58.9	55.7	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	61.7	76.3	65.7	63.4	61.2	59.2	57.1	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	61.4	69.2	64.8	63.1	60.9	59.2	56.2	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	62.1	83.9	65.7	63.7	61.3	59.4	55.9	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	60.9	82.2	64.9	62.9	60.1	58.0	54.6	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	61.4	90.2	64.7	62.5	59.7	57.2	53.0	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	61.2	83.8	65.1	63.1	60.2	57.7	53.7	0.0	23.5	E	0.9
Tue 14/05/19	13:00	61.4	87.3	66.4	63.3	60.2	57.6	54.0	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	63.1	70.6	67.6	65.2	62.5	59.4	55.1	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	64.2	91.1	67.6	65.3	63.0	60.9	57.2	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	67.1	96.2	70.2	63.9	60.4	58.0	55.2	0.0	23.1	E	0.9
Tue 14/05/19	17:00	60.7	86.8	70.7	60.9	58.5	56.8	53.3	0.0	22.8	E	0.4
Tue 14/05/19	18:00	60.1	82.9	63.8	61.5	59.1	57.1	54.4	0.0	22.1	E	0.4
Tue 14/05/19	19:00	60.2	81.6	64.8	62.2	59.5	57.1	53.9	0.0	20.8	E	0.0
Tue 14/05/19	20:00	60.5	94.0	67.4	62.9	57.6	54.9	50.6	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	61.7	89.1	67.8	64.3	57.7	53.8	49.1	0.0	18.9	E	0.0
Tue 14/05/19	22:00	57.4	76.1	63.7	59.8	56.2	53.1	48.3	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	56.9	85.1	63.9	58.9	54.8	51.2	44.9	0.0	17.1	---	0.0
Wed 15/05/19	0:00	54.6	66.6	62.6	57.4	52.7	48.6	41.6	0.0	17.3	SSE	0.0

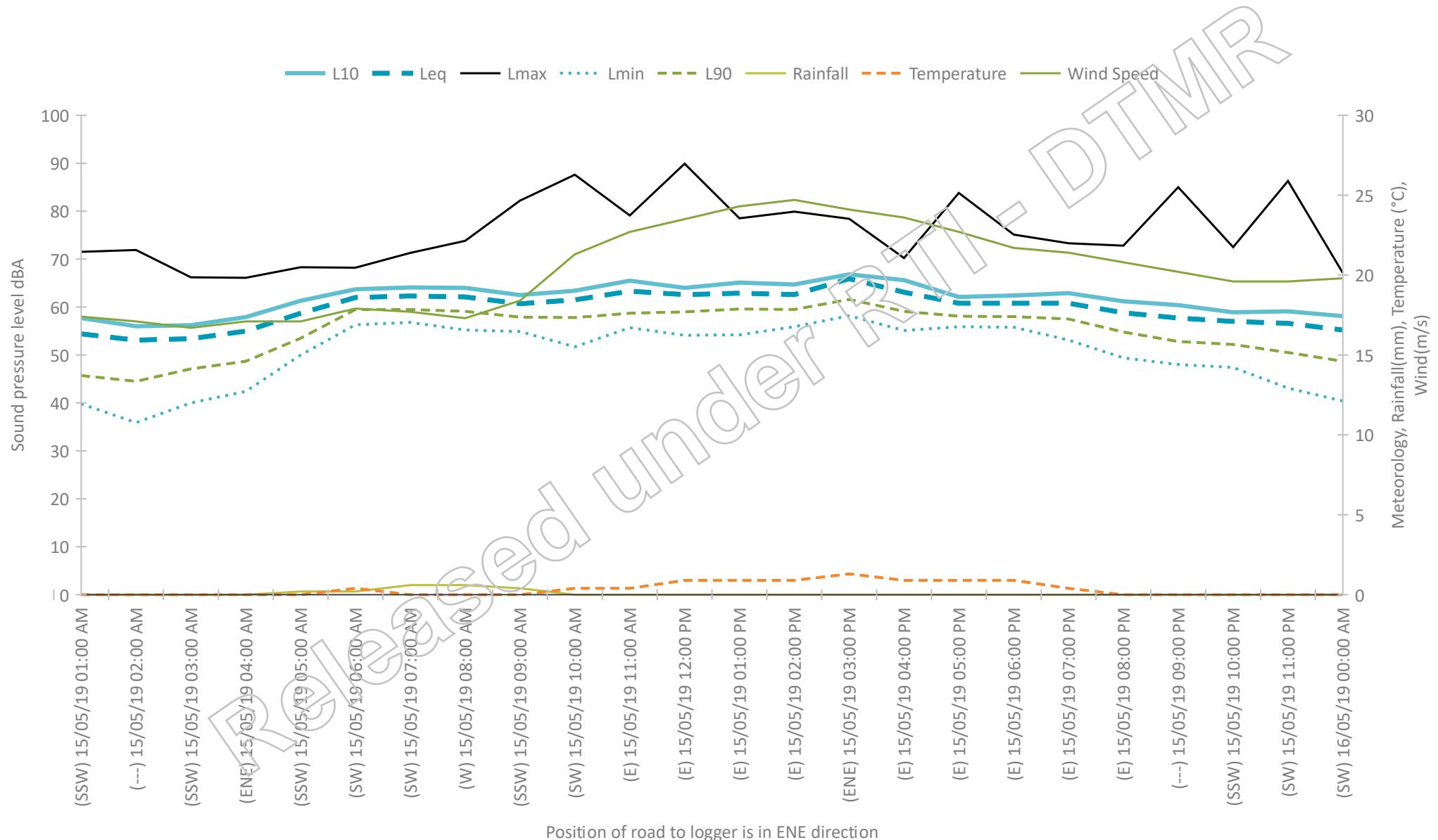
## Project 620.11007.00500 Version 1.0 57 Barrett Street BRACKEN RIDGE 14/05/2019



Address	57 Barrett Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>62.8</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.8 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	61.0 dBA
State Road	Gateway Motorway	Distance	51 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	64.2 dBA
Instrument type	Ngara	Microphone height	2.4 m	LA90 (8 hour)	49.3 dBA
Instrument serial no	8781DF	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.1 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	64.3 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	54.4	71.5	62.9	57.7	51.3	45.7	39.8	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	53.1	71.9	62.3	56.0	49.9	44.5	35.9	0.0	17.1	---	0.0
Wed 15/05/19	3:00	53.4	66.2	61.7	56.2	51.3	47.1	40.0	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	55.0	66.1	62.3	57.9	53.4	48.7	42.4	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	58.7	68.3	64.4	61.3	57.9	53.5	50.0	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	62.0	68.2	65.7	63.7	61.5	59.5	56.3	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	62.3	71.3	65.9	64.1	61.7	59.5	56.8	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	62.1	73.8	66.2	64.0	61.6	59.1	55.2	0.6	17.3	W	0.0
Wed 15/05/19	9:00	60.7	82.2	64.4	62.5	60.0	57.9	54.9	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	61.5	87.6	66.8	63.4	60.4	57.8	51.7	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	63.3	79.1	71.4	65.5	61.2	58.7	55.7	0.0	22.7	E	0.4
Wed 15/05/19	12:00	62.6	89.9	66.7	64.0	61.3	59.0	54.1	0.0	23.5	E	0.9
Wed 15/05/19	13:00	62.9	78.5	67.5	65.1	62.1	59.6	54.2	0.0	24.3	E	0.9
Wed 15/05/19	14:00	62.6	79.9	66.9	64.7	62.0	59.5	55.9	0.0	24.7	E	0.9
Wed 15/05/19	15:00	65.9	78.4	75.2	66.8	64.0	61.6	58.2	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	63.1	70.2	67.5	65.6	62.2	59.1	55.1	0.0	23.6	E	0.9
Wed 15/05/19	17:00	60.8	83.8	64.4	62.1	60.1	58.1	55.9	0.0	22.7	E	0.9
Wed 15/05/19	18:00	60.8	75.1	66.9	62.4	60.0	58.0	55.8	0.0	21.7	E	0.9
Wed 15/05/19	19:00	60.8	73.3	65.2	62.9	60.2	57.5	53.1	0.0	21.4	E	0.4
Wed 15/05/19	20:00	58.8	72.8	64.2	61.2	57.8	54.8	49.4	0.0	20.8	E	0.0
Wed 15/05/19	21:00	57.7	85.0	64.0	60.4	55.8	52.8	48.0	0.0	20.2	---	0.0
Wed 15/05/19	22:00	57.0	72.5	65.5	58.9	55.1	52.2	47.4	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	56.6	86.3	63.2	59.1	54.7	50.5	43.1	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	55.2	67.1	62.9	58.1	53.3	48.7	40.4	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 57 Barrett Street BRACKEN RIDGE 15/05/2019



N/R

N/R

N/R

# Site 12 - 5 Cloverbrook Place, Bracken Ridge

The noise measurement data at 5 Cloverbrook Place NUDGEE was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 24.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

**Table 24: Measured road traffic noise levels at 5 Cloverbrook Place NUDGEE 4014**

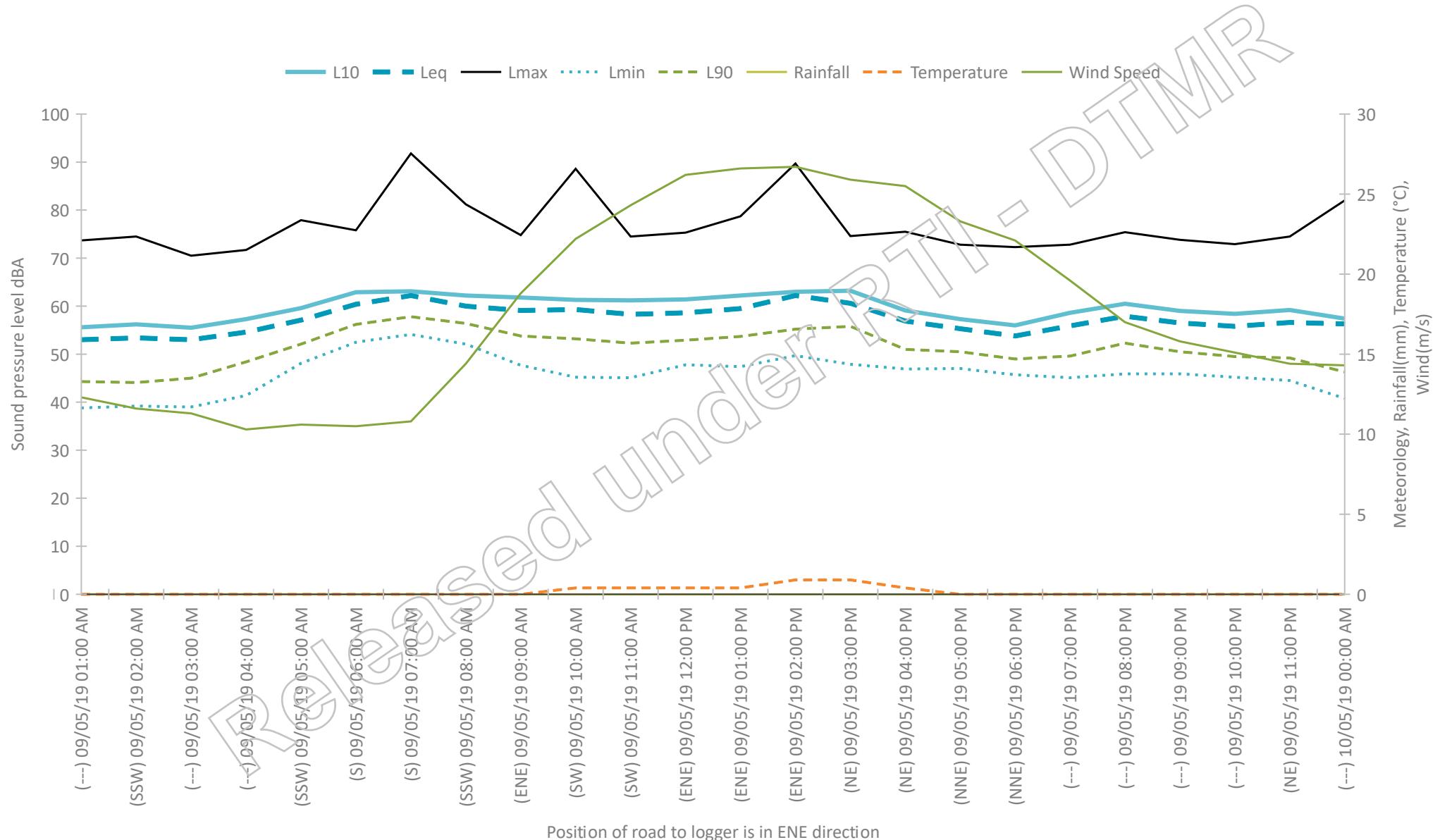
Facade corrected LA10 (18hr) dBA	
Thursday 09/05/19	60.3
Friday 10/05/19	61.1
Monday 13/05/19	61.5
Tuesday 14/05/19	61.0
Wednesday 15/05/19	61.5

The level results were consistent with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	5 Cloverbrook Place	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.3</b>	dBA
Contact name	N/R	AADT year	2018	LAeq (24 hour)	58.2	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.0	dBA
State Road	Gateway Motorway	Distance	24 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	61.0	dBA
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	47.4	dBA
Instrument serial no	87808f	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.2	dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	61.8	dBA
				based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	53.0	73.7	63.0	55.6	49.2	44.3	38.8	0.0	12.3	---	0.0
Thu 09/05/19	2:00	53.4	74.5	63.8	56.2	48.5	44.1	39.2	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	53.0	70.5	63.0	55.5	49.6	45.0	39.0	0.0	11.3	---	0.0
Thu 09/05/19	4:00	54.6	71.7	63.7	57.3	51.8	48.4	41.4	0.0	10.3	---	0.0
Thu 09/05/19	5:00	57.1	77.9	64.5	59.6	55.1	52.1	48.1	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	60.4	75.8	66.4	62.9	59.3	56.2	52.5	0.0	10.5	S	0.0
Thu 09/05/19	7:00	62.2	91.8	66.7	63.1	60.0	57.8	54.1	0.0	10.8	S	0.0
Thu 09/05/19	8:00	60.0	81.2	65.6	62.2	58.9	56.4	52.1	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	59.1	74.8	66.5	61.8	57.3	53.8	47.7	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	59.3	88.6	65.1	61.3	56.8	53.2	45.2	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	58.3	74.5	65.2	61.2	56.5	52.3	45.1	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	58.6	75.3	65.8	61.4	56.8	52.9	47.8	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	59.5	78.7	66.2	62.2	57.5	53.7	47.4	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	62.2	89.7	69.9	63.0	58.5	55.2	49.7	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	60.6	74.6	66.9	63.2	59.5	55.8	47.9	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	56.9	75.5	65.3	59.1	54.7	51.0	46.9	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	55.3	72.8	63.3	57.3	53.5	50.5	47.0	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	53.8	72.3	62.2	56.0	51.8	49.0	45.7	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	55.9	72.8	64.0	58.6	53.8	49.6	45.1	0.0	19.6	---	0.0
Thu 09/05/19	20:00	57.9	75.4	65.5	60.5	56.0	52.3	45.9	0.0	17.0	---	0.0
Thu 09/05/19	21:00	56.5	73.8	64.9	59.0	54.3	50.5	45.9	0.0	15.8	---	0.0
Thu 09/05/19	22:00	55.8	72.9	64.6	58.4	53.6	49.5	45.2	0.0	15.1	---	0.0
Thu 09/05/19	23:00	56.6	74.5	65.3	59.2	54.1	49.2	44.5	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	56.3	82.0	64.8	57.4	52.0	46.3	40.8	0.0	14.3	---	0.0

## Project 620.11007.00500 Version 1.0 5 Cloverbrook Place NUDGEE 9/05/2019

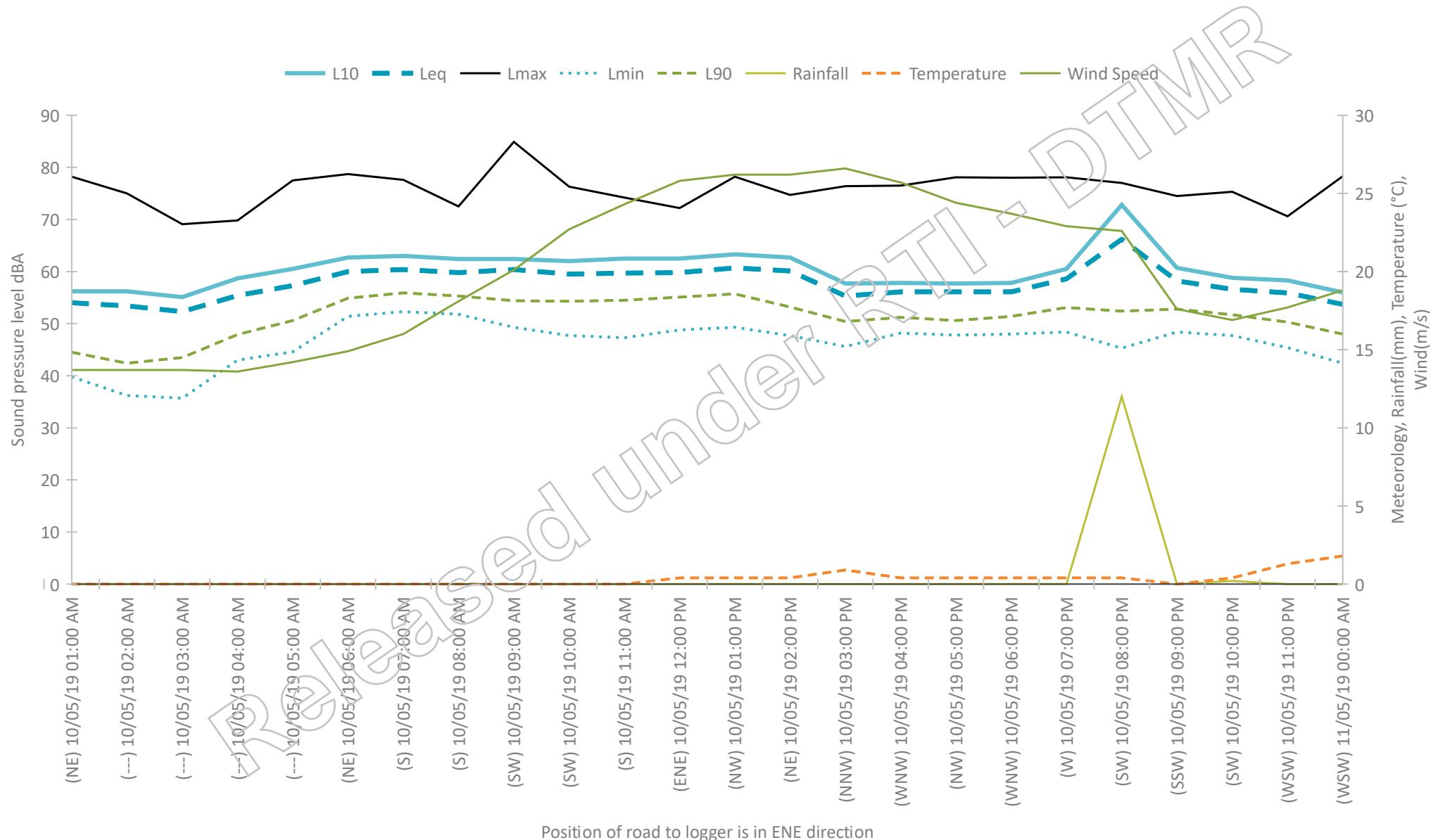


Position of road to logger is in ENE direction

Address	5 Cloverbrook Place	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.1</b> dBA	
Contact name	N/R	AADT year	2018	LAeq (24 hour)	58.9 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	55.9 dBA	
State Road	Gateway Motorway	Distance	24 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	61.0 dBA	
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	46.5 dBA	
Instrument serial no	87808f	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.4 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 62.5 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	54.0	78.2	63.7	56.2	49.6	44.5	39.8	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	53.4	75.0	64.3	56.2	48.0	42.4	36.2	0.0	13.7	---	0.0
Fri 10/05/19	3:00	52.3	69.1	62.5	55.1	48.4	43.5	35.7	0.0	13.7	---	0.0
Fri 10/05/19	4:00	55.4	69.8	64.9	58.7	51.9	47.9	43.0	0.0	13.6	---	0.0
Fri 10/05/19	5:00	57.3	77.5	65.3	60.5	54.7	50.6	44.6	0.0	14.2	---	0.0
Fri 10/05/19	6:00	60.0	78.7	66.3	62.7	58.3	54.9	51.4	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	60.4	77.6	66.3	63.0	59.0	55.9	52.3	0.0	16.0	S	0.0
Fri 10/05/19	8:00	59.8	72.5	66.2	62.4	58.5	55.3	51.8	0.0	18.1	S	0.0
Fri 10/05/19	9:00	60.4	84.9	68.2	62.4	57.8	54.4	49.3	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	59.5	76.3	66.6	62.0	57.8	54.3	47.7	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	59.7	74.2	66.4	62.5	58.3	54.5	47.3	0.0	24.3	S	0.0
Fri 10/05/19	12:00	59.8	72.2	66.1	62.5	58.4	55.1	48.8	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	60.7	78.2	68.1	63.3	59.1	55.7	49.3	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	60.1	74.7	66.8	62.7	58.8	53.2	47.7	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	55.3	76.4	62.6	57.7	53.5	50.4	45.6	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	56.1	76.5	64.8	57.8	53.9	51.2	48.2	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	56.1	78.1	65.2	57.7	53.2	50.6	47.8	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	56.1	78.0	63.6	57.8	53.9	51.4	48.0	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	58.6	78.1	65.7	60.5	57.0	53.1	48.4	0.0	22.9	W	0.4
Fri 10/05/19	20:00	66.2	77.0	75.6	72.8	56.6	52.4	45.3	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	58.2	74.5	65.7	60.7	56.3	52.8	48.4	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	56.6	75.3	64.6	58.8	55.0	51.7	47.7	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	55.9	70.6	63.8	58.3	54.2	50.3	45.4	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	53.7	78.3	61.7	56.0	51.8	48.0	42.4	0.0	18.8	WSW	1.8

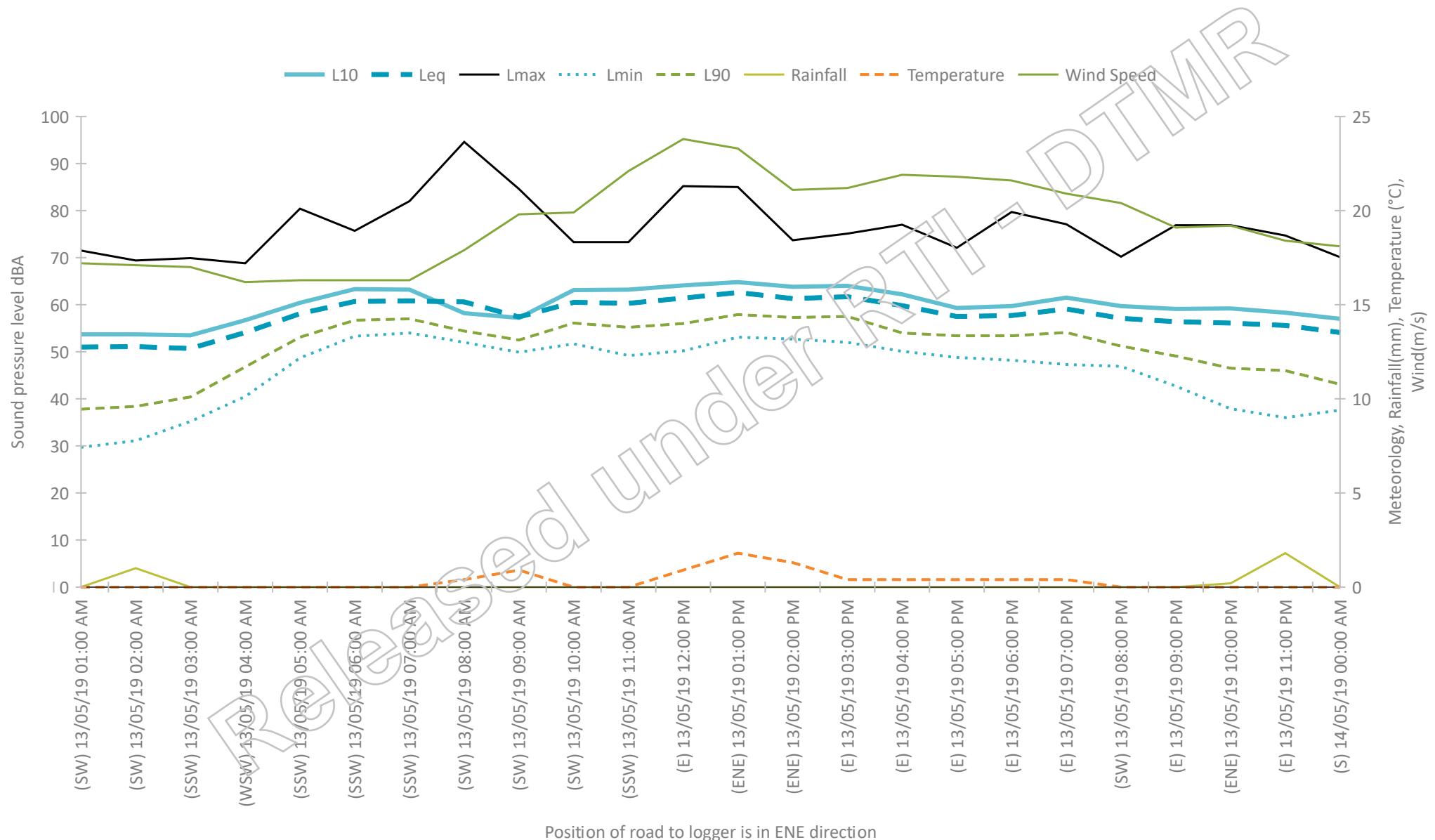
## Project 620.11007.00500 Version 1.0 5 Cloverbrook Place NUDGEE 10/05/2019



Address	5 Cloverbrook Place	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.5</b> dBA	
Contact name	N/R	AADT year	2018	LAeq (24 hour)	58.9 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.0 dBA	
State Road	Gateway Motorway	Distance	24 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.7 dBA	
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	46.0 dBA	
Instrument serial no	87808f	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.4 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 63.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	51.0	71.5	62.3	53.7	45.1	37.8	29.7	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	51.1	69.4	63.1	53.7	44.4	38.4	31.1	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	50.7	69.9	62.1	53.5	45.6	40.4	35.2	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	54.1	68.8	63.6	56.7	51.4	46.8	40.5	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	58.1	80.4	65.7	60.4	56.1	53.1	48.7	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	60.7	75.7	66.5	63.3	59.4	56.7	53.3	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	60.8	82.0	66.8	63.2	59.5	57.0	54.0	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	60.6	94.6	65.8	58.2	56.1	54.4	52.0	0.0	17.9	SW	0.4
Mon 13/05/19	9:00	57.4	84.6	65.0	57.2	54.5	52.5	49.9	0.0	19.8	SW	0.9
Mon 13/05/19	10:00	60.5	73.3	66.8	63.1	59.2	56.1	51.7	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	60.3	73.3	66.8	63.2	59.0	55.2	49.2	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	61.4	85.2	68.8	64.1	59.6	56.0	50.2	0.0	23.8	E	0.9
Mon 13/05/19	13:00	62.6	85.0	69.7	64.8	60.8	57.9	53.1	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	61.3	73.7	66.9	63.8	60.1	57.3	52.7	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	61.7	75.1	68.0	64.0	60.5	57.5	52.0	0.0	21.2	E	0.4
Mon 13/05/19	16:00	59.8	77.0	66.6	62.2	58.2	54.0	50.1	0.0	21.9	E	0.4
Mon 13/05/19	17:00	57.5	72.1	65.5	59.3	56.1	53.4	48.8	0.0	21.8	E	0.4
Mon 13/05/19	18:00	57.7	79.7	65.2	59.7	55.8	53.4	48.2	0.0	21.6	E	0.4
Mon 13/05/19	19:00	59.1	77.1	65.8	61.5	57.7	54.1	47.3	0.0	20.9	E	0.4
Mon 13/05/19	20:00	57.1	70.2	65.3	59.7	55.1	51.2	46.9	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	56.4	76.9	65.3	59.1	53.6	49.1	42.7	0.0	19.1	E	0.0
Mon 13/05/19	22:00	56.1	76.9	65.6	59.2	52.9	46.5	37.9	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	55.6	74.7	64.9	58.3	53.1	46.0	36.0	1.8	18.4	E	0.0
Tue 14/05/19	0:00	54.1	70.1	64.6	57.0	50.1	43.1	37.6	0.0	18.1	S	0.0

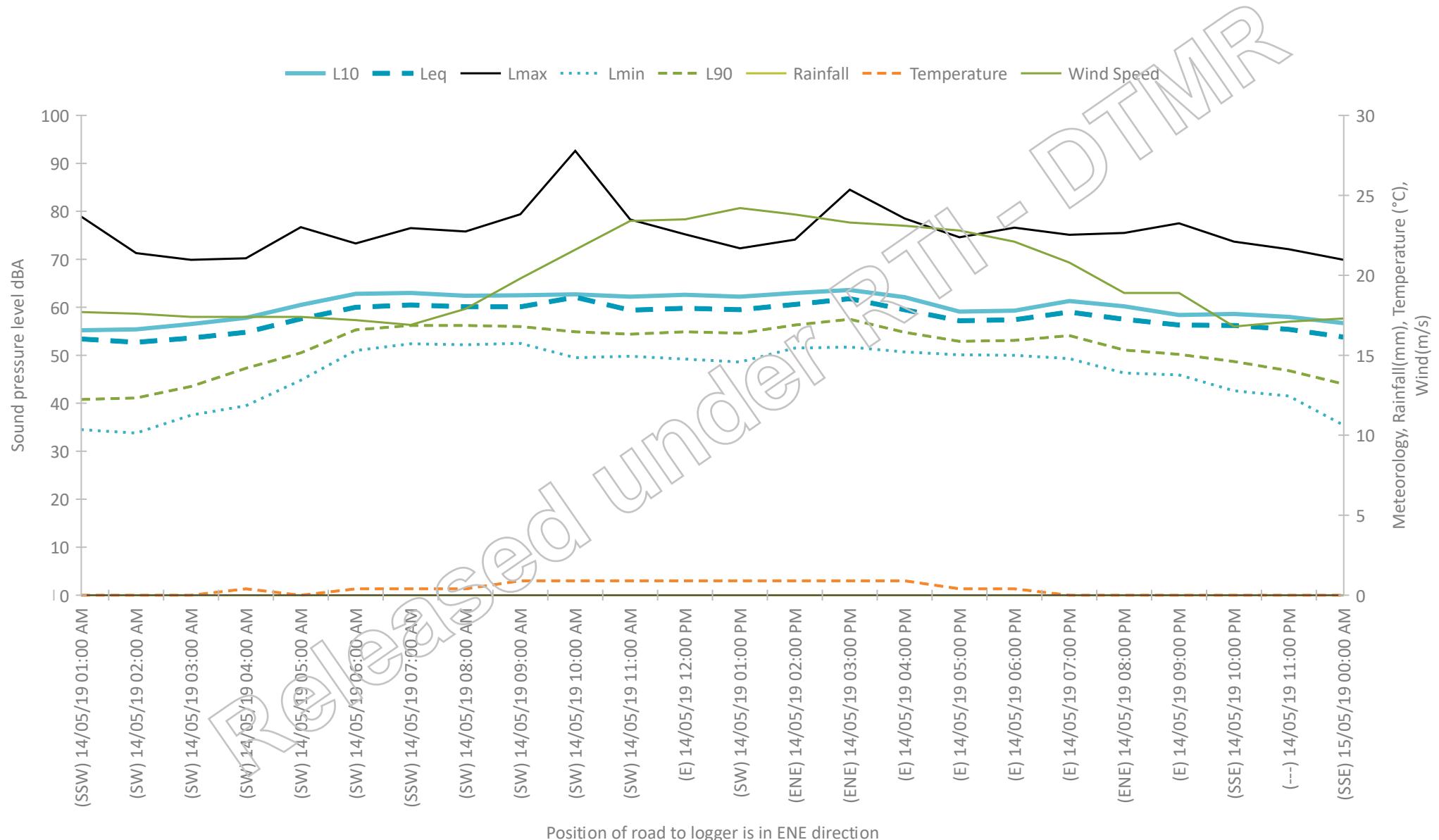
## Project 620.11007.00500 Version 1.0 5 Cloverbrook Place NUDGEE 13/05/2019



Address	5 Cloverbrook Place	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.0</b>	dBA
Contact name	N/R	AADT year	2018	LAeq (24 hour)	58.6	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.2	dBA
State Road	Gateway Motorway	Distance	24 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.1	dBA
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	45.7	dBA
Instrument serial no	87808f	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.5	dBA
Time scale	60 mins	Operator	N/R	Prediction based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	53.4	78.9	64.3	55.2	47.7	40.8	34.5	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	52.7	71.3	64.2	55.4	47.2	41.1	33.8	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	53.6	69.9	64.4	56.5	48.9	43.5	37.5	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	54.8	70.2	64.3	57.8	51.6	47.3	39.5	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	57.6	76.7	66.0	60.5	55.0	50.5	44.8	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	60.0	73.3	66.2	62.8	58.6	55.3	51.0	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	60.5	76.5	66.2	63.0	59.2	56.2	52.4	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	60.1	75.8	65.8	62.4	59.0	56.2	52.2	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	60.1	79.4	66.2	62.5	58.8	56.0	52.5	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	62.1	92.6	67.9	62.7	58.3	54.9	49.5	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	59.4	78.3	65.4	62.2	57.9	54.4	49.8	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	59.8	75.2	66.6	62.6	58.2	54.9	49.2	0.0	23.5	E	0.9
Tue 14/05/19	13:00	59.5	72.3	65.9	62.2	58.2	54.6	48.6	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	60.6	74.1	66.3	63.0	59.6	56.3	51.5	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	61.8	84.5	67.3	63.6	60.2	57.5	51.7	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	59.5	78.5	66.2	62.1	58.0	54.8	50.7	0.0	23.1	E	0.9
Tue 14/05/19	17:00	57.2	74.6	64.7	59.1	55.7	52.9	50.1	0.0	22.8	E	0.4
Tue 14/05/19	18:00	57.4	76.6	64.7	59.3	55.8	53.1	50.0	0.0	22.1	E	0.4
Tue 14/05/19	19:00	59.0	75.1	66.0	61.3	57.7	54.1	49.3	0.0	20.8	E	0.0
Tue 14/05/19	20:00	57.5	75.5	65.8	60.2	55.3	51.1	46.3	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	56.3	77.5	64.9	58.4	54.1	50.2	45.9	0.0	18.9	E	0.0
Tue 14/05/19	22:00	56.2	73.7	65.7	58.6	53.4	48.7	42.6	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	55.4	72.1	64.8	58.0	52.8	46.8	41.5	0.0	17.1	---	0.0
Wed 15/05/19	0:00	53.8	69.9	64.1	56.7	50.0	44.0	35.4	0.0	17.3	SSE	0.0

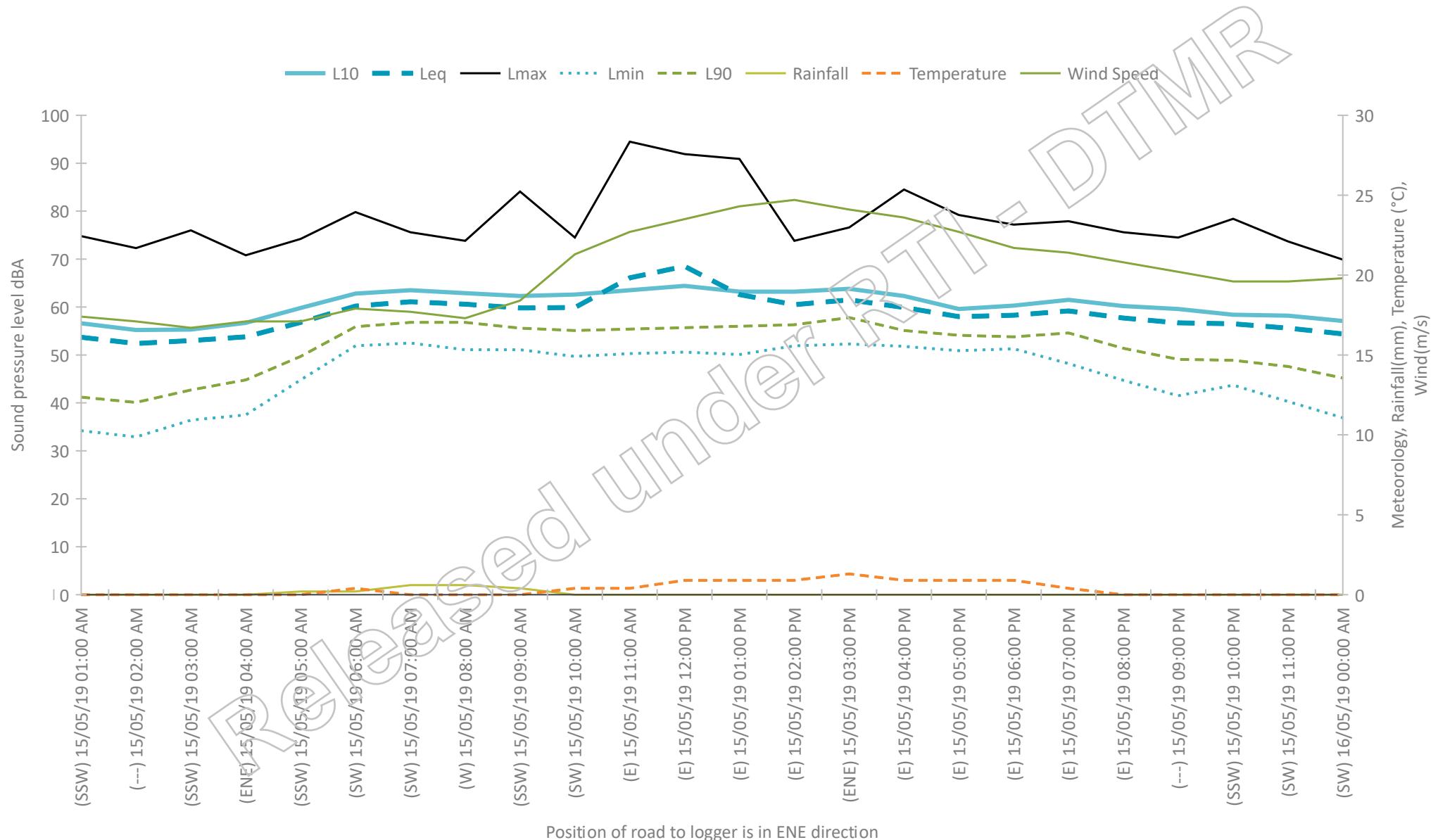
## Project 620.11007.00500 Version 1.0 5 Cloverbrook Place NUDGEE 14/05/2019



Address	5 Cloverbrook Place		AADT	74217	<b>LA10 (18 hour)</b>	<b>61.5</b>	dBA	
Contact name	N/R		AADT year	2018	LAeq (24 hour)	60.6	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	59.7	dBA	
State Road	Gateway Motorway		Distance	24 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	62.6	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.8 m	LA90 (8 hour)	45.7	dBA
Instrument serial no	87808f	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	51.7	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 63.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	53.7	74.8	64.4	56.6	48.0	41.2	34.2	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	52.4	72.3	63.7	55.2	46.2	40.1	32.9	0.0	17.1	---	0.0
Wed 15/05/19	3:00	53.0	76.0	63.7	55.3	47.7	42.7	36.4	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	53.8	70.8	63.9	56.7	49.9	44.8	37.5	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	56.8	74.2	65.2	59.8	54.6	49.7	44.8	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	60.2	79.8	66.1	62.8	58.7	55.9	51.9	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	61.1	75.6	67.1	63.5	59.8	56.8	52.5	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	60.6	73.8	65.9	62.9	59.6	56.8	51.1	0.6	17.3	W	0.0
Wed 15/05/19	9:00	59.8	84.1	65.6	62.3	58.6	55.6	51.1	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	59.9	74.5	66.2	62.6	58.6	55.1	49.7	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	66.1	94.5	78.2	63.5	58.9	55.4	50.3	0.0	22.7	E	0.4
Wed 15/05/19	12:00	68.5	91.9	82.8	64.4	59.1	55.7	50.6	0.0	23.5	E	0.9
Wed 15/05/19	13:00	62.6	90.9	67.4	63.2	59.2	56.0	50.1	0.0	24.3	E	0.9
Wed 15/05/19	14:00	60.5	73.8	66.2	63.2	59.4	56.3	51.9	0.0	24.7	E	0.9
Wed 15/05/19	15:00	61.5	76.6	66.8	63.8	60.5	57.8	52.3	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	59.9	84.5	65.9	62.3	58.3	55.1	51.8	0.0	23.6	E	0.9
Wed 15/05/19	17:00	58.0	79.2	64.2	59.6	56.5	54.1	50.9	0.0	22.7	E	0.9
Wed 15/05/19	18:00	58.3	77.2	66.5	60.3	56.4	53.8	51.3	0.0	21.7	E	0.9
Wed 15/05/19	19:00	59.2	77.9	65.9	61.5	58.0	54.6	48.2	0.0	21.4	E	0.4
Wed 15/05/19	20:00	57.7	75.6	65.8	60.2	55.8	51.4	44.7	0.0	20.8	E	0.0
Wed 15/05/19	21:00	56.7	74.5	65.6	59.6	54.1	49.1	41.5	0.0	20.2	---	0.0
Wed 15/05/19	22:00	56.5	78.4	66.1	58.4	53.3	48.9	43.7	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	55.6	73.7	64.4	58.2	53.2	47.6	40.3	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	54.4	69.9	64.4	57.1	51.1	45.2	36.9	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 5 Cloverbrook Place NUDGEE 15/05/2019



N/R

N/R

# Site 13 - 118 Nearra Street, Deagon

The noise measurement data at 118 Nearra Street DEAGON was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 25.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

**Table 25: Measured road traffic noise levels at 118 Nearra Street DEAGON 2017**

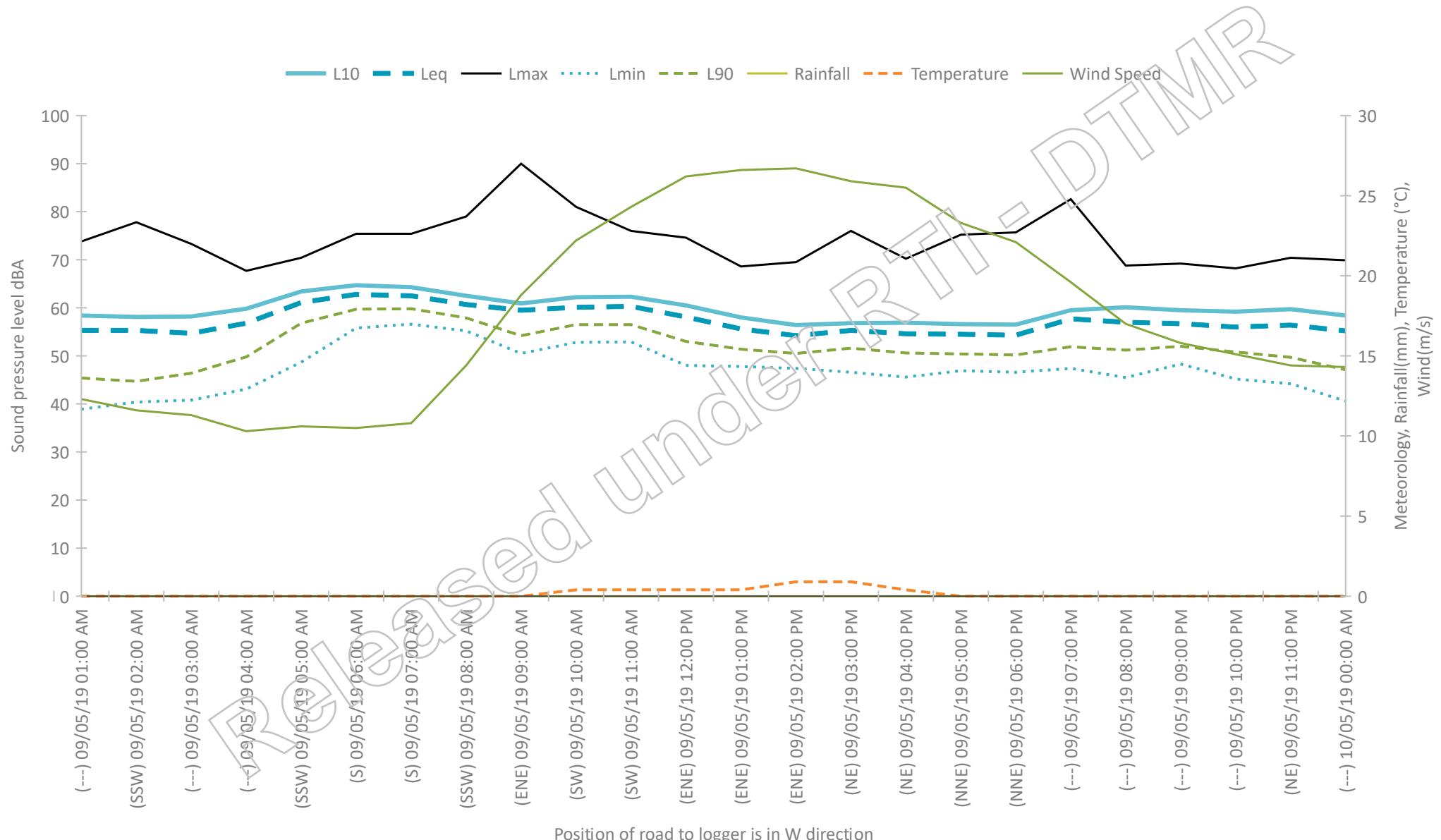
	Facade corrected LA10 (18hr) dBA
Thursday 09/05/19	59.5
Friday 10/05/19	61.0
Monday 13/05/19	61.5
Tuesday 14/05/19	62.0
Wednesday 15/05/19	61.7

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	118 Nearra Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>59.5</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	58.2 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	61.4 dBA	
State Road	Gateway Motorway	Distance	129 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	59.5 dBA	
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	48.5 dBA	
Instrument serial no	878202	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.0 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Facade corrected		
				Predicted 10 year horizon LA10 (18 hour) 61.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	55.3	73.8	63.2	58.4	52.5	45.4	38.9	0.0	12.3	---	0.0
Thu 09/05/19	2:00	55.3	77.8	64.1	58.1	51.3	44.7	40.4	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	54.7	73.3	63.0	58.2	51.9	46.4	40.8	0.0	11.3	---	0.0
Thu 09/05/19	4:00	56.8	67.7	63.3	59.8	55.3	49.8	43.1	0.0	10.3	---	0.0
Thu 09/05/19	5:00	61.1	70.4	65.7	63.4	60.4	56.8	48.7	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	62.8	75.4	68.1	64.7	62.0	59.7	55.8	0.0	10.5	S	0.0
Thu 09/05/19	7:00	62.5	75.4	66.8	64.3	62.0	59.8	56.6	0.0	10.8	S	0.0
Thu 09/05/19	8:00	60.7	79.0	65.3	62.5	60.0	57.9	55.2	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	59.5	90.0	66.5	60.9	57.2	54.2	50.5	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	60.1	81.0	64.8	62.2	59.3	56.5	52.8	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	60.3	76.0	65.9	62.3	59.4	56.5	52.9	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	58.1	74.6	64.7	60.5	56.7	53.0	48.0	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	55.6	68.6	61.5	58.0	54.6	51.4	47.8	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	54.2	69.5	59.9	56.4	53.3	50.5	47.4	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	55.3	76.0	61.6	56.8	54.0	51.6	46.6	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	54.6	70.2	61.1	56.9	53.4	50.6	45.6	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	54.5	75.2	61.0	56.6	53.2	50.4	46.9	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	54.3	75.7	60.9	56.5	52.8	50.2	46.6	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	57.7	82.6	64.7	59.5	55.6	51.9	47.4	0.0	19.6	---	0.0
Thu 09/05/19	20:00	57.0	68.8	63.8	60.1	55.4	51.2	45.5	0.0	17.0	---	0.0
Thu 09/05/19	21:00	56.7	69.2	63.5	59.5	55.2	52.0	48.3	0.0	15.8	---	0.0
Thu 09/05/19	22:00	56.0	68.2	63.0	59.2	54.2	50.8	45.2	0.0	15.1	---	0.0
Thu 09/05/19	23:00	56.4	70.4	64.0	59.7	54.0	49.7	44.2	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	55.2	69.9	64.4	58.4	52.1	47.1	40.6	0.0	14.3	---	0.0

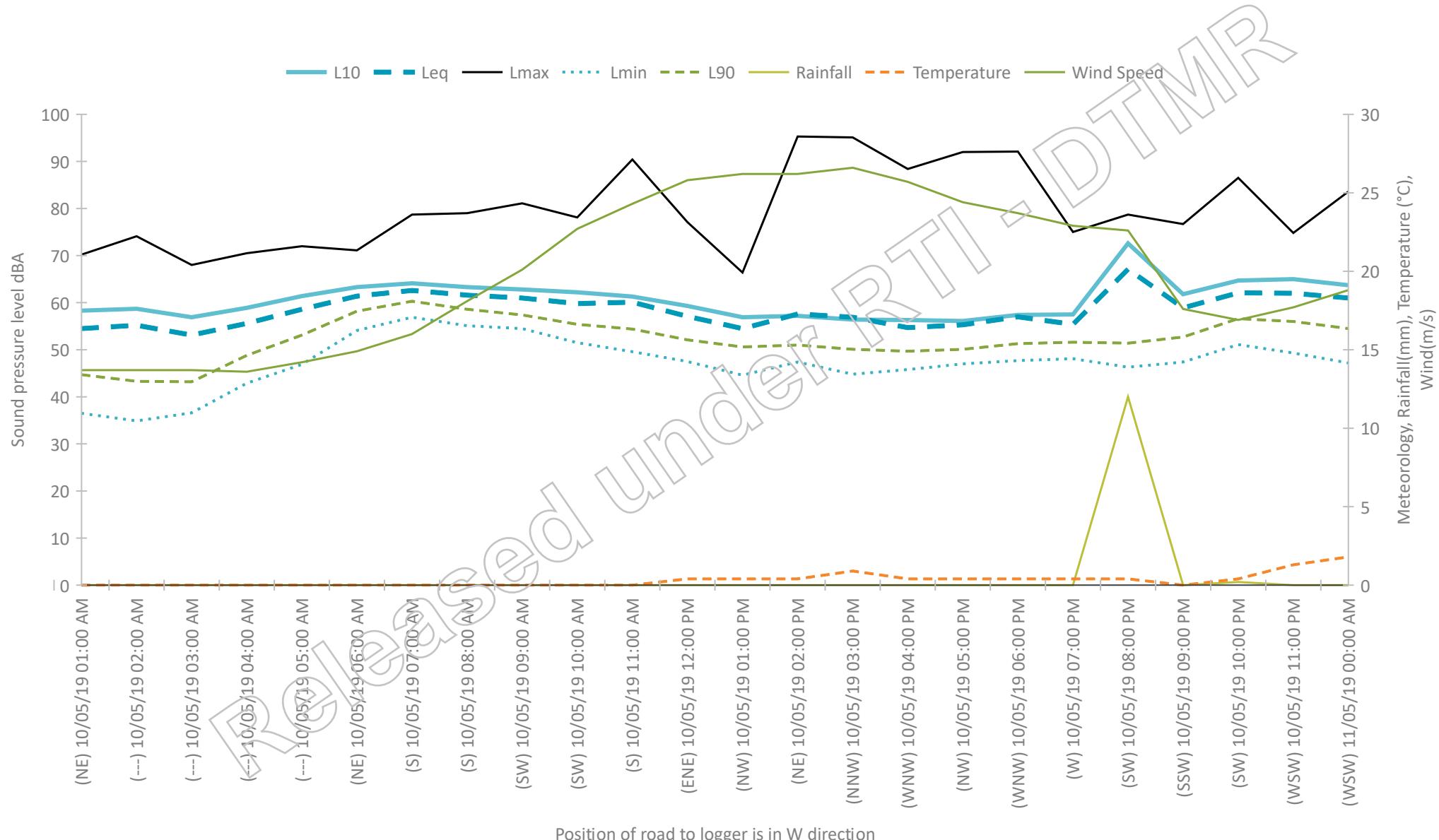
## Project 620.11007.00500 Version 1.0 118 Nearra Street DEAGON 9/05/2019



Address	118 Nearra Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.0</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.9 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	62.0 dBA
State Road	Gateway Motorway	Distance	129 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	59.4 dBA
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	52.3 dBA
Instrument serial no	878202	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.3 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	62.5 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	54.5	70.2	63.7	58.3	50.3	44.7	36.5	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	55.2	74.1	65.3	58.7	49.5	43.3	34.9	0.0	13.7	---	0.0
Fri 10/05/19	3:00	53.1	68.0	61.7	56.9	49.7	43.2	36.6	0.0	13.7	---	0.0
Fri 10/05/19	4:00	55.6	70.5	62.7	58.9	53.4	48.8	42.9	0.0	13.6	---	0.0
Fri 10/05/19	5:00	58.6	72.0	64.4	61.4	57.5	53.1	46.9	0.0	14.2	---	0.0
Fri 10/05/19	6:00	61.4	71.1	66.1	63.3	60.9	58.2	54.1	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	62.6	78.7	66.4	64.1	62.1	60.3	56.9	0.0	16.0	S	0.0
Fri 10/05/19	8:00	61.6	79.0	66.2	63.3	60.9	58.6	55.1	0.0	18.1	S	0.0
Fri 10/05/19	9:00	61.0	81.1	67.1	62.8	60.0	57.4	54.5	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	59.8	78.1	65.9	62.2	58.6	55.4	51.5	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	60.1	90.4	67.8	61.3	57.7	54.4	49.6	0.0	24.3	S	0.0
Fri 10/05/19	12:00	57.1	77.1	63.0	59.3	56.2	52.1	47.5	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	54.5	66.4	60.2	56.9	53.5	50.6	44.6	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	57.6	95.3	63.8	57.2	53.8	51.0	47.4	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	56.9	95.1	60.4	56.4	52.8	50.1	44.8	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	54.7	88.4	60.0	56.3	52.8	49.7	45.8	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	55.3	92.0	60.5	56.1	52.6	50.1	47.0	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	57.0	92.1	62.2	57.4	53.7	51.3	47.7	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	55.4	75.0	61.5	57.5	54.0	51.6	48.1	0.0	22.9	W	0.4
Fri 10/05/19	20:00	67.1	78.7	76.4	72.6	58.2	51.4	46.3	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	58.9	76.7	66.5	61.8	56.8	52.7	47.4	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	62.1	86.5	68.4	64.7	60.7	56.6	51.1	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	62.0	74.8	68.7	65.0	60.3	56.0	49.3	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	61.0	83.6	67.4	63.7	59.0	54.5	47.2	0.0	18.8	WSW	1.8

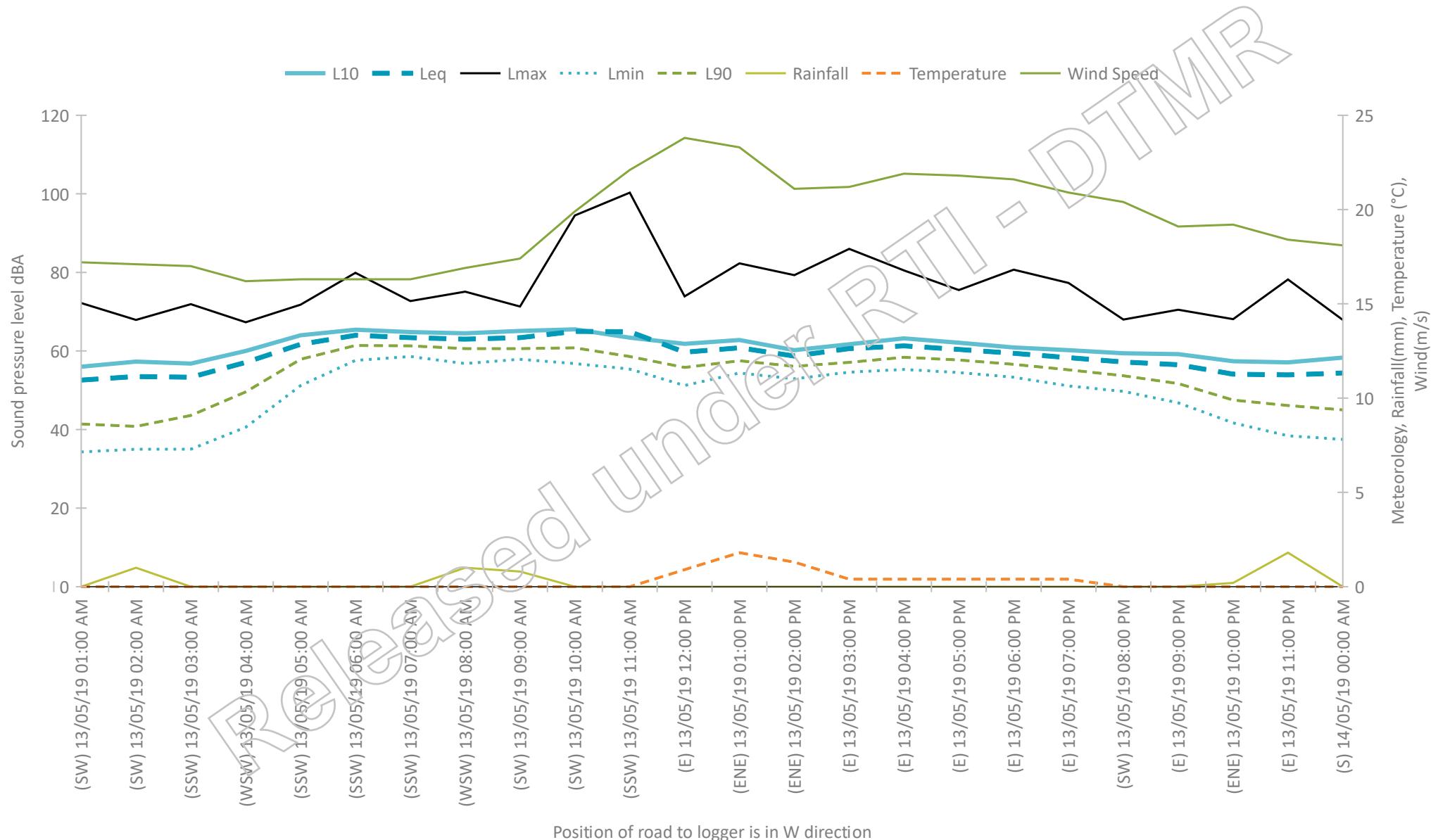
## Project 620.11007.00500 Version 1.0 118 Nearra Street DEAGON 10/05/2019



Address	118 Nearra Street		AADT	74217	<b>LA10 (18 hour)</b>	<b>61.5</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	60.6	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	65.0	dBA	
State Road	Gateway Motorway		Distance	129 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	63.0	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	4.6 m	LA90 (8 hour)	49.2	dBA
Instrument serial no	878202	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	54.0	dBA
Time scale	60 mins	Operator	N/R	Facade	Facade corrected	Predicted 10 year horizon LA10 (18 hour) 63.0 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	52.6	72.2	62.1	56.0	48.2	41.4	34.3	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	53.5	67.9	63.4	57.3	49.2	40.8	35.0	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	53.3	71.9	61.8	56.8	49.7	43.6	35.0	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	57.1	67.3	63.6	60.0	55.8	49.6	40.6	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	61.7	71.8	66.5	64.0	61.0	57.9	51.2	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	64.0	79.9	67.2	65.4	63.5	61.4	57.6	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	63.4	72.7	66.8	64.8	63.0	61.3	58.6	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	63.0	75.1	66.3	64.5	62.6	60.6	56.8	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	63.4	71.3	67.3	65.1	62.8	60.6	57.9	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	65.0	94.5	67.9	65.5	63.2	60.8	56.8	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	64.9	100.3	66.0	63.4	60.7	58.6	55.4	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	59.7	73.9	64.8	61.8	58.9	55.8	51.2	0.0	23.8	E	0.9
Mon 13/05/19	13:00	60.8	82.3	65.9	62.8	59.9	57.5	54.4	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	58.7	79.3	62.9	60.2	58.0	56.1	52.9	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	60.6	86.0	66.7	61.7	59.2	57.1	54.6	0.0	21.2	E	0.4
Mon 13/05/19	16:00	61.3	80.5	65.5	63.2	60.5	58.4	55.3	0.0	21.9	E	0.4
Mon 13/05/19	17:00	60.4	75.5	64.4	62.1	59.7	57.7	54.5	0.0	21.8	E	0.4
Mon 13/05/19	18:00	59.4	80.7	63.5	60.9	58.7	56.6	53.3	0.0	21.6	E	0.4
Mon 13/05/19	19:00	58.3	77.3	62.9	60.2	57.6	55.2	51.1	0.0	20.9	E	0.4
Mon 13/05/19	20:00	57.2	68.0	61.9	59.4	56.5	53.7	49.7	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	56.5	70.5	62.3	59.2	55.3	51.7	46.8	0.0	19.1	E	0.0
Mon 13/05/19	22:00	54.1	68.1	62.1	57.4	51.7	47.5	41.7	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	53.9	78.2	62.3	57.1	50.7	46.1	38.4	1.8	18.4	E	0.0
Tue 14/05/19	0:00	54.4	67.9	63.0	58.3	51.0	45.0	37.5	0.0	18.1	S	0.0

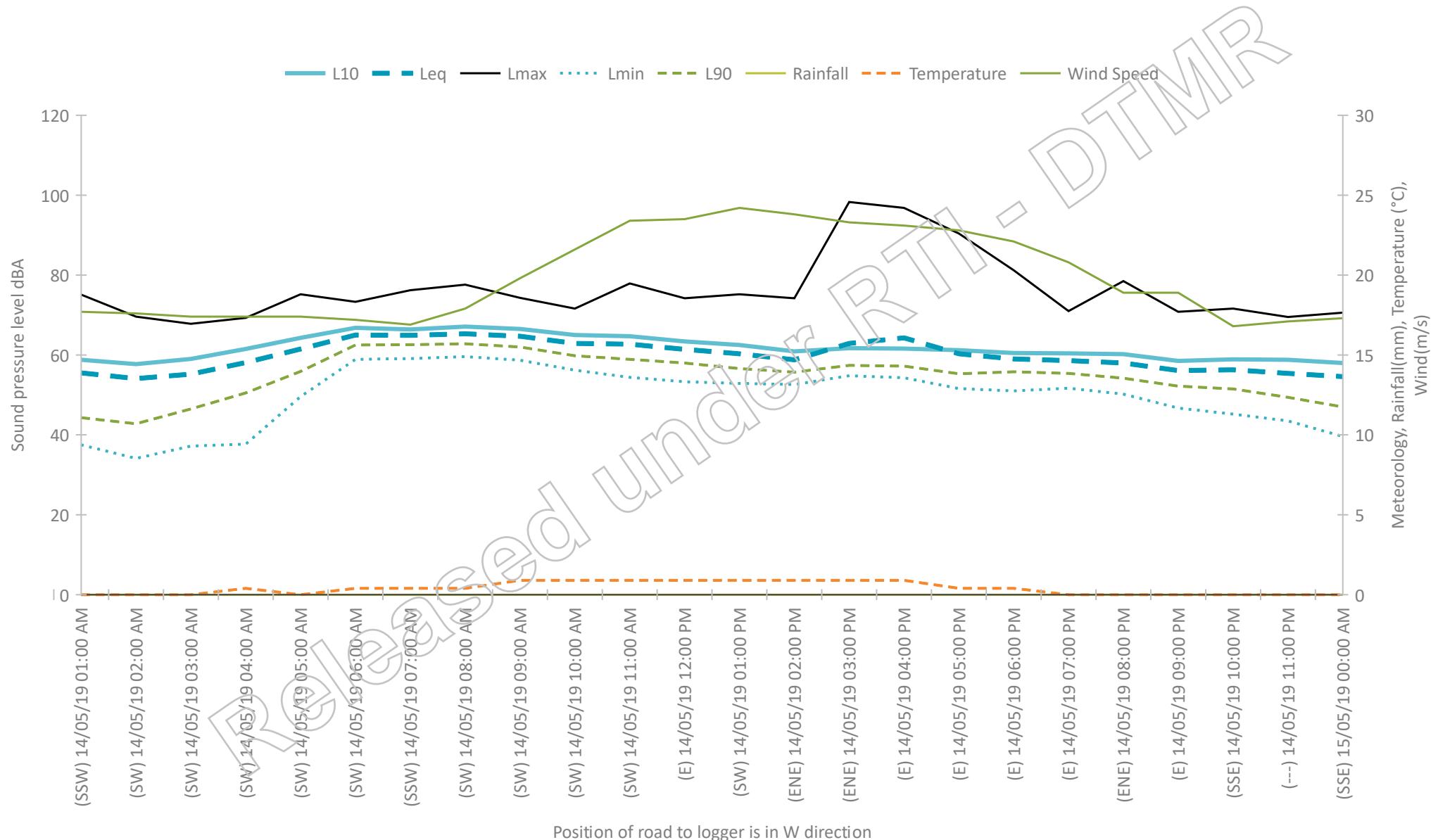
## Project 620.11007.00500 Version 1.0 118 Nearra Street DEAGON 13/05/2019



Address	118 Nearra Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>62.0</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	61.2 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	64.8 dBA
State Road	Gateway Motorway	Distance	129 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.5 dBA
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	49.1 dBA
Instrument serial no	878202	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	54.8 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	63.5 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	55.5	75.1	65.7	58.8	50.9	44.3	37.5	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	54.1	69.6	62.2	57.7	51.3	42.8	34.1	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	55.2	67.8	62.8	59.0	52.6	46.5	37.2	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	58.1	69.3	64.6	61.5	56.1	50.5	37.7	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	61.5	75.2	66.8	64.3	60.4	55.9	49.6	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	65.0	73.3	68.9	66.8	64.5	62.5	58.9	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	64.9	76.2	68.3	66.4	64.4	62.6	59.1	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	65.3	77.6	68.9	67.1	64.8	62.8	59.6	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	64.7	74.3	68.5	66.5	64.2	62.0	58.7	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	62.9	71.6	67.4	65.0	62.3	59.8	56.2	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	62.7	77.9	67.4	64.7	61.9	58.9	54.4	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	61.4	74.2	66.5	63.4	60.6	58.0	53.3	0.0	23.5	E	0.9
Tue 14/05/19	13:00	60.3	75.2	65.3	62.5	59.4	56.6	52.9	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	58.8	74.2	64.1	60.9	57.8	55.7	52.6	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	62.9	98.3	65.4	61.7	59.4	57.4	54.8	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	64.3	96.8	69.9	61.6	59.0	57.2	54.3	0.0	23.1	E	0.9
Tue 14/05/19	17:00	60.3	90.4	64.5	61.2	58.4	55.3	51.6	0.0	22.8	E	0.4
Tue 14/05/19	18:00	59.0	81.2	64.1	60.5	57.9	55.8	51.0	0.0	22.1	E	0.4
Tue 14/05/19	19:00	58.6	71.0	63.1	60.4	58.1	55.4	51.7	0.0	20.8	E	0.0
Tue 14/05/19	20:00	58.0	78.5	63.1	60.2	57.1	54.2	50.2	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	56.1	70.8	61.7	58.5	55.0	52.2	46.7	0.0	18.9	E	0.0
Tue 14/05/19	22:00	56.3	71.6	62.4	58.9	54.9	51.5	45.2	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	55.4	69.5	62.5	58.8	53.3	49.4	43.5	0.0	17.1	---	0.0
Wed 15/05/19	0:00	54.6	70.6	63.2	58.0	51.8	47.0	39.6	0.0	17.3	SSE	0.0

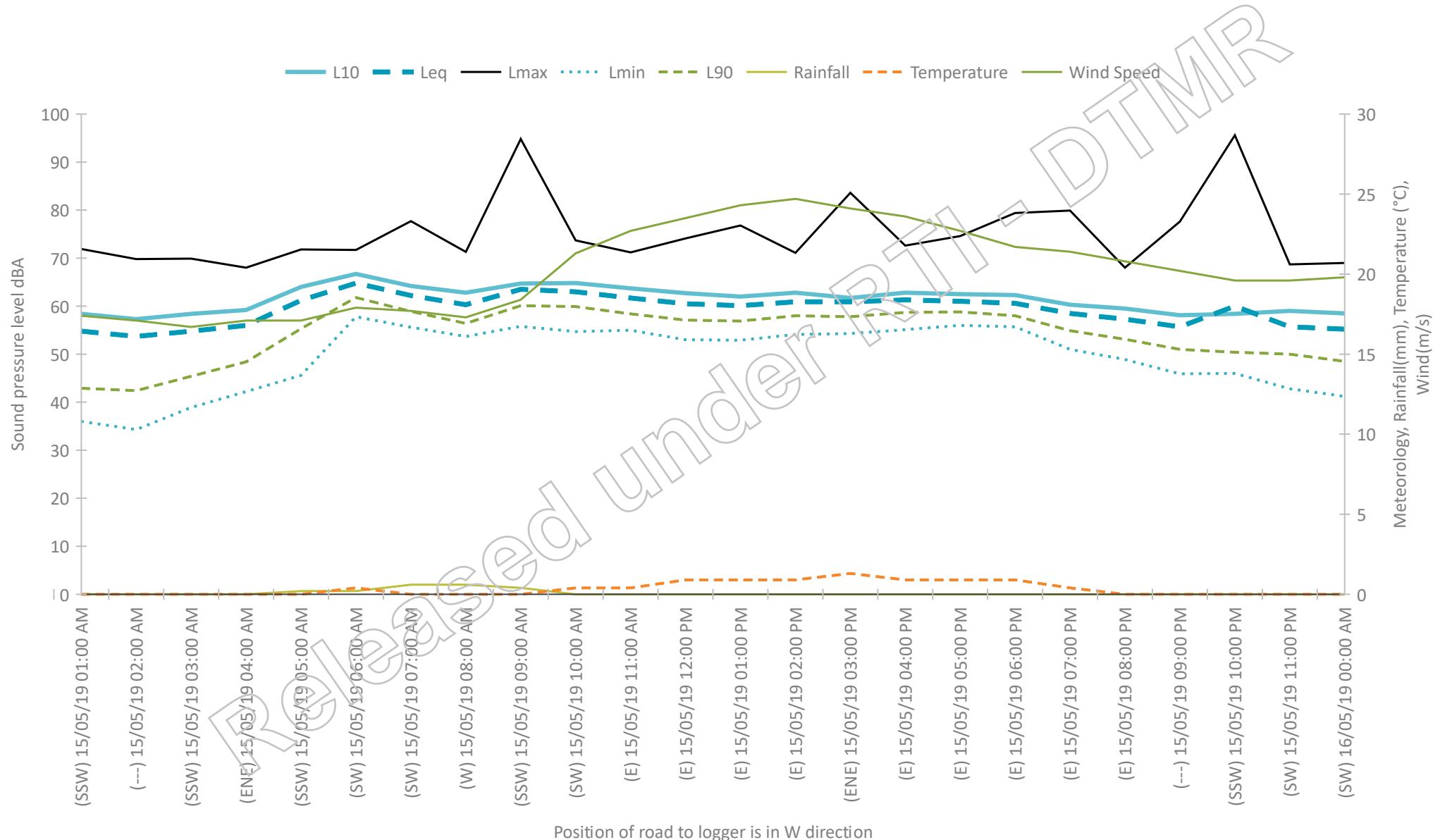
## Project 620.11007.00500 Version 1.0 118 Nearra Street DEAGON 14/05/2019



Address	118 Nearra Street	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.7</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.3 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	59.8 dBA
State Road	Gateway Motorway	Distance	129 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.1 dBA
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	47.9 dBA
Instrument serial no	878202	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	54.3 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	63.2 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	54.8	71.9	64.2	58.4	50.6	42.9	36.0	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	53.7	69.8	62.8	57.3	49.9	42.4	34.3	0.0	17.1	---	0.0
Wed 15/05/19	3:00	54.8	69.9	62.7	58.4	52.2	45.4	38.9	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	56.0	68.0	62.5	59.2	54.4	48.4	42.2	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	61.2	71.8	66.3	64.0	60.2	55.3	45.6	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	64.8	71.7	68.6	66.7	64.4	61.8	57.8	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	62.2	77.7	66.6	64.2	61.4	58.9	55.6	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	60.3	71.3	65.2	62.8	59.1	56.4	53.7	0.6	17.3	W	0.0
Wed 15/05/19	9:00	63.5	94.8	67.1	64.7	62.4	60.1	55.8	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	63.0	73.7	67.3	64.8	62.6	59.9	54.7	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	61.7	71.2	65.9	63.7	61.1	58.4	55.0	0.0	22.7	E	0.4
Wed 15/05/19	12:00	60.5	74.1	65.7	62.7	59.6	57.1	53.0	0.0	23.5	E	0.9
Wed 15/05/19	13:00	60.1	76.8	65.0	62.0	59.3	56.9	52.9	0.0	24.3	E	0.9
Wed 15/05/19	14:00	60.9	71.1	65.9	62.8	60.1	58.0	54.1	0.0	24.7	E	0.9
Wed 15/05/19	15:00	60.9	83.6	66.1	61.7	59.7	57.8	54.3	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	61.3	72.6	64.5	62.8	61.0	58.7	55.1	0.0	23.6	E	0.9
Wed 15/05/19	17:00	61.0	74.6	64.8	62.5	60.4	58.8	56.0	0.0	22.7	E	0.9
Wed 15/05/19	18:00	60.6	79.4	64.6	62.3	60.1	58.0	55.7	0.0	21.7	E	0.9
Wed 15/05/19	19:00	58.5	79.9	63.4	60.3	57.8	54.9	51.0	0.0	21.4	E	0.4
Wed 15/05/19	20:00	57.3	68.0	63.1	59.5	56.3	53.1	48.9	0.0	20.8	E	0.0
Wed 15/05/19	21:00	55.7	77.6	61.8	58.1	54.7	51.0	45.9	0.0	20.2	---	0.0
Wed 15/05/19	22:00	60.0	95.6	63.6	58.4	53.4	50.4	46.0	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	55.7	68.7	62.7	59.0	53.9	50.0	42.8	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	55.2	69.0	62.7	58.5	53.0	48.5	41.2	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 118 Nearra Street DEAGON 15/05/2019



N/R

# Site 14 - 21 Hassall Road, Deagon

The noise measurement data at 21 Hassall Road was collected in a free field location requiring a 2.5 dBA addition to calculate the facade corrected noise levels. The free field measured noise levels are shown in Table 26.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 10/05/2019 to 17/05/2019 respectively.

**Table 26: Measured road traffic noise levels at 21 Hassall Road DEAGON 2017**

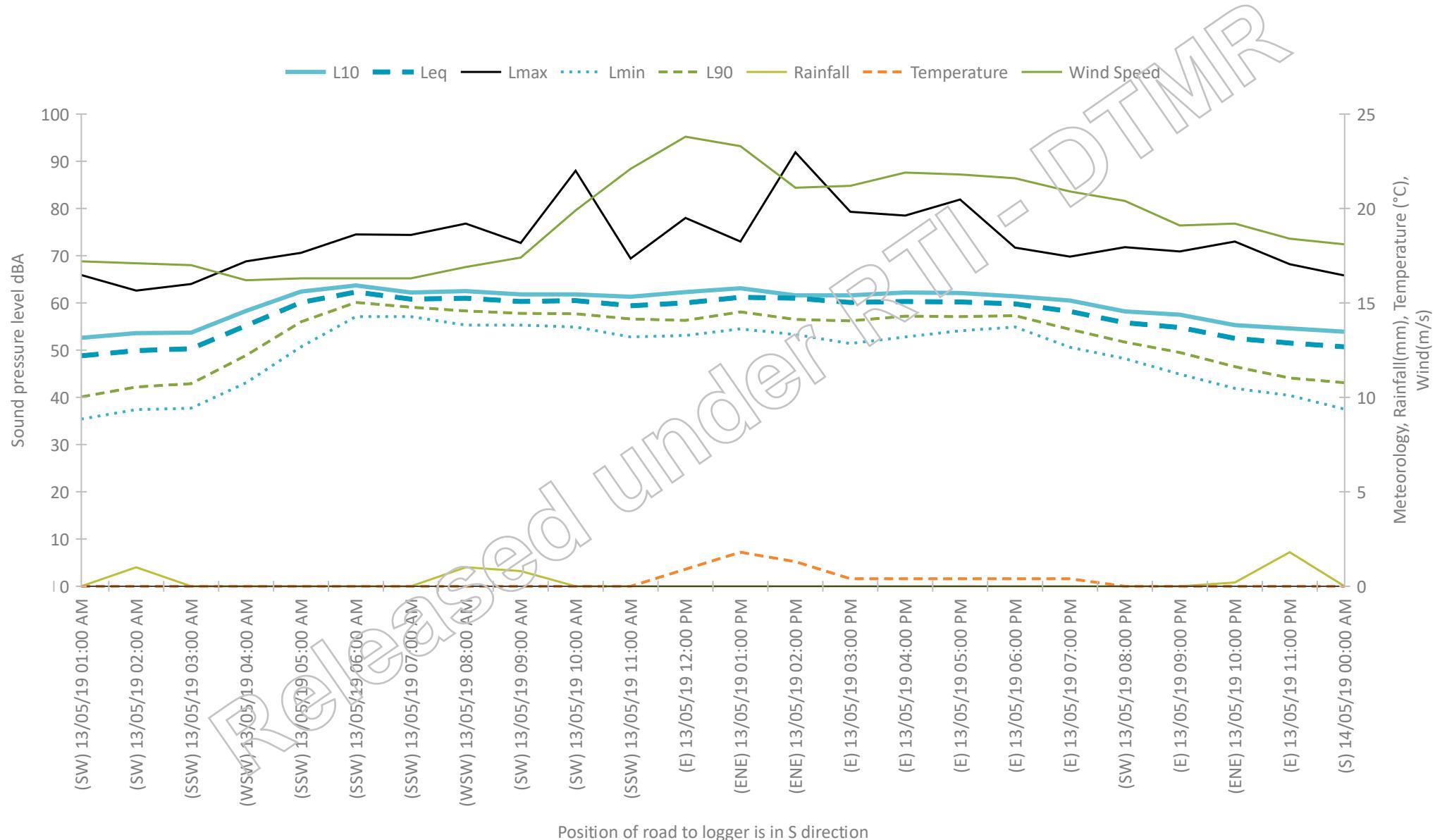
	Free field LA10 (18hr) dBA	Facade corrected LA10 (18hr) dBA +2.5dB
Monday 13/05/19	60.2	62.7
Tuesday 14/05/19	60.7	63.2
Wednesday 15/05/19	60.6	63.1
Thursday 16/05/19	61.2	63.7

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	21 Hassall Road		AADT	74217	<b>LA10 (18 hour)</b>	<b>60.2</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	58.8	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	62.4	dBA	
State Road	Gateway Motorway		Distance	240 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	62.0	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	3.5 m	LA90 (8 hour)	47.6	dBA
Instrument serial no	8780bd	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.8	dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 61.7 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	48.8	65.9	58.4	52.6	44.6	40.1	35.4	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	49.9	62.6	58.3	53.6	46.7	42.2	37.4	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	50.3	64.0	58.4	53.7	47.8	42.9	37.7	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	55.2	68.8	61.5	58.3	53.8	48.9	43.1	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	60.1	70.6	64.9	62.4	59.5	56.0	50.7	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	62.3	74.5	65.9	63.7	61.9	60.1	57.1	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	60.8	74.4	64.4	62.2	60.4	59.1	57.1	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	61.0	76.8	66.4	62.5	60.3	58.3	55.3	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	60.3	72.7	65.2	61.8	59.7	57.8	55.3	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	60.5	88.0	64.9	61.8	59.6	57.7	54.9	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	59.4	69.4	64.0	61.3	58.8	56.6	52.8	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	60.0	78.0	64.6	62.3	59.2	56.3	53.1	0.0	23.8	E	0.9
Mon 13/05/19	13:00	61.2	73.0	65.3	63.1	60.6	58.1	54.5	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	61.0	91.9	64.6	61.6	58.9	56.5	53.3	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	60.1	79.3	65.3	61.6	58.8	56.2	51.4	0.0	21.2	E	0.4
Mon 13/05/19	16:00	60.3	78.5	65.7	62.2	59.5	57.2	52.8	0.0	21.9	E	0.4
Mon 13/05/19	17:00	60.2	81.9	64.5	62.1	59.4	57.1	54.1	0.0	21.8	E	0.4
Mon 13/05/19	18:00	59.8	71.7	64.1	61.4	59.2	57.3	54.9	0.0	21.6	E	0.4
Mon 13/05/19	19:00	58.2	69.8	63.5	60.5	57.3	54.4	50.6	0.0	20.9	E	0.4
Mon 13/05/19	20:00	55.8	71.8	61.6	58.2	54.7	51.7	48.2	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	54.8	70.9	61.4	57.5	53.4	49.5	44.9	0.0	19.1	E	0.0
Mon 13/05/19	22:00	52.5	73.0	60.0	55.3	50.6	46.5	41.9	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	51.5	68.2	61.2	54.6	48.1	44.1	40.4	1.8	18.4	E	0.0
Tue 14/05/19	0:00	50.7	65.8	59.2	53.9	47.9	43.1	37.5	0.0	18.1	S	0.0

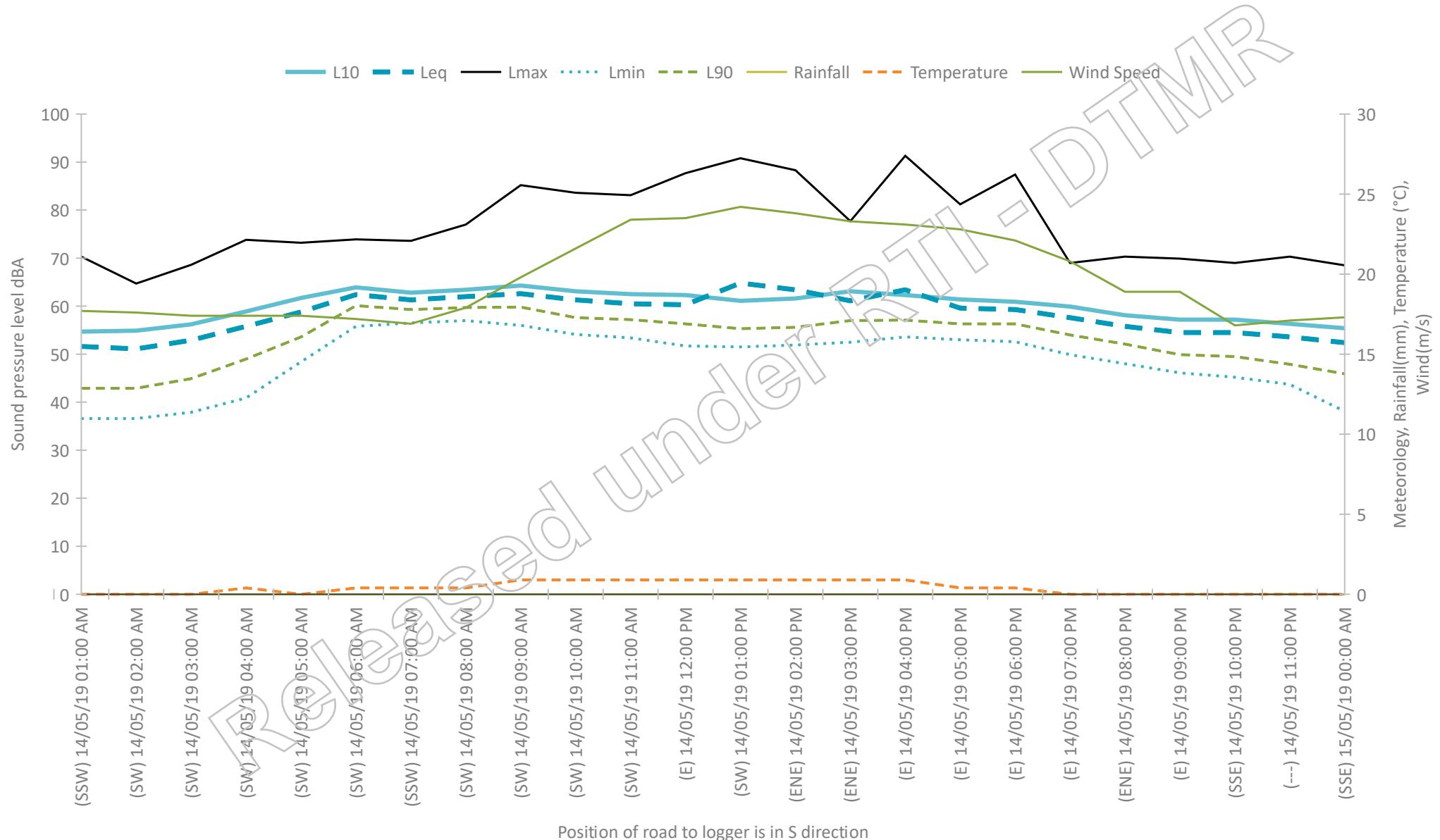
## Project 620.11007.00500 Version 1.0 21 Hassall Road DEAGON 13/05/2019



Address	21 Hassall Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.7</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.0 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	62.7 dBA	
State Road	Gateway Motorway	Distance	240 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.4 dBA	
Instrument type	Ngara	Microphone height	3.5 m	LA90 (8 hour)	48.2 dBA	
Instrument serial no	8780bd	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	53.3 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Free field		
				Predicted 10 year horizon LA10 (18 hour) 62.2 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	51.6	70.3	60.5	54.7	47.9	42.9	36.6	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	51.1	64.7	58.8	54.9	48.2	42.9	36.6	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	52.9	68.6	61.0	56.2	50.4	44.9	37.9	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	55.8	73.8	62.3	58.9	54.2	49.0	40.9	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	58.8	73.2	63.9	61.7	57.7	53.6	48.4	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	62.4	73.9	65.6	63.9	62.1	60.1	55.8	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	61.3	73.6	64.6	62.8	60.9	59.3	56.5	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	62.0	77.0	65.5	63.4	61.5	59.7	57.0	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	62.6	85.2	66.9	64.3	61.9	59.8	56.0	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	61.3	83.6	66.3	63.1	60.1	57.6	54.1	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	60.5	83.1	65.0	62.5	59.7	57.2	53.4	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	60.3	87.7	65.3	62.3	59.2	56.3	51.7	0.0	23.5	E	0.9
Tue 14/05/19	13:00	64.8	90.8	76.4	61.1	57.8	55.3	51.5	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	63.4	88.3	75.1	61.6	58.3	55.6	51.9	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	61.1	77.7	68.8	63.1	59.6	57.0	52.5	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	63.4	91.3	67.7	62.3	59.3	57.1	53.6	0.0	23.1	E	0.9
Tue 14/05/19	17:00	59.6	81.2	65.0	61.4	58.7	56.3	53.0	0.0	22.8	E	0.4
Tue 14/05/19	18:00	59.3	87.4	63.8	60.9	58.5	56.3	52.6	0.0	22.1	E	0.4
Tue 14/05/19	19:00	57.6	69.0	63.0	59.9	56.7	54.0	49.9	0.0	20.8	E	0.0
Tue 14/05/19	20:00	55.8	70.3	61.8	58.1	54.7	52.1	48.0	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	54.5	69.9	60.8	57.2	52.9	49.9	46.1	0.0	18.9	E	0.0
Tue 14/05/19	22:00	54.5	69.0	61.2	57.2	52.9	49.5	45.2	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	53.6	70.3	61.5	56.3	51.3	47.9	43.7	0.0	17.1	---	0.0
Wed 15/05/19	0:00	52.4	68.5	61.2	55.4	49.8	45.9	38.1	0.0	17.3	SSE	0.0

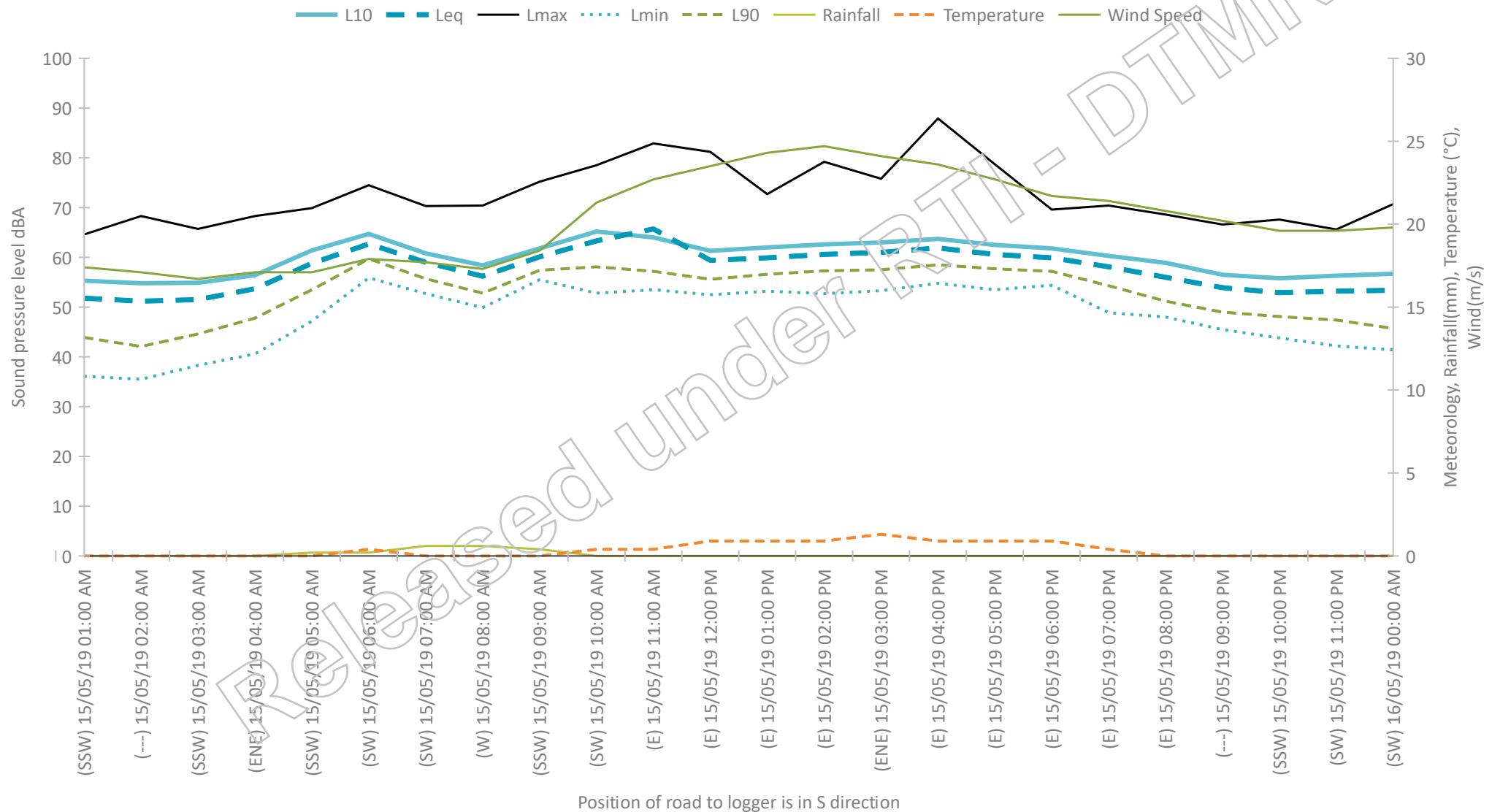
## Project 620.11007.00500 Version 1.0 21 Hassall Road DEAGON 14/05/2019



Address	21 Hassall Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>60.6</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.5 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.1 dBA	
State Road	Gateway Motorway	Distance	240 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.3 dBA	
Instrument type	Ngara	Microphone height	3.5 m	LA90 (8 hour)	47.9 dBA	
Instrument serial no	8780bd	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.9 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Free field		
				Predicted 10 year horizon LA10 (18 hour) 62.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	51.8	64.6	59.5	55.3	49.3	43.9	36.1	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	51.2	68.3	59.7	54.8	47.6	42.1	35.5	0.0	17.1	---	0.0
Wed 15/05/19	3:00	51.5	65.7	59.0	54.9	49.3	44.6	38.3	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	53.7	68.3	60.2	56.4	52.4	47.8	40.6	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	58.8	69.9	64.5	61.4	57.8	53.5	47.2	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	62.7	74.5	66.4	64.7	62.2	59.7	55.9	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	59.0	70.3	63.1	60.8	58.5	55.7	52.7	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	56.2	70.4	60.7	58.4	55.3	52.8	49.9	0.6	17.3	W	0.0
Wed 15/05/19	9:00	60.1	75.2	64.4	61.8	59.6	57.4	55.5	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	63.3	78.5	72.6	65.2	61.0	58.1	52.8	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	65.7	82.9	77.9	64.0	59.9	57.2	53.5	0.0	22.7	E	0.4
Wed 15/05/19	12:00	59.4	81.2	64.4	61.3	58.3	55.6	52.5	0.0	23.5	E	0.9
Wed 15/05/19	13:00	59.9	72.7	64.3	62.0	59.2	56.6	53.2	0.0	24.3	E	0.9
Wed 15/05/19	14:00	60.6	79.2	65.5	62.6	59.7	57.3	52.7	0.0	24.7	E	0.9
Wed 15/05/19	15:00	61.0	75.8	67.3	63.0	59.8	57.5	53.3	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	61.9	87.9	67.7	63.7	60.8	58.5	54.8	0.0	23.6	E	0.9
Wed 15/05/19	17:00	60.6	78.7	65.3	62.5	59.8	57.7	53.5	0.0	22.7	E	0.9
Wed 15/05/19	18:00	59.9	69.6	64.1	61.8	59.2	57.2	54.4	0.0	21.7	E	0.9
Wed 15/05/19	19:00	58.1	70.4	63.5	60.3	57.2	54.3	48.9	0.0	21.4	E	0.4
Wed 15/05/19	20:00	56.0	68.6	62.8	58.9	54.4	51.2	48.0	0.0	20.8	E	0.0
Wed 15/05/19	21:00	53.9	66.6	60.9	56.5	52.4	49.0	45.5	0.0	20.2	---	0.0
Wed 15/05/19	22:00	52.9	67.6	60.6	55.8	50.8	48.1	43.8	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	53.2	65.6	60.6	56.3	51.0	47.4	42.2	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	53.4	70.7	62.2	56.7	50.2	45.7	41.4	0.0	19.8	SW	0.0

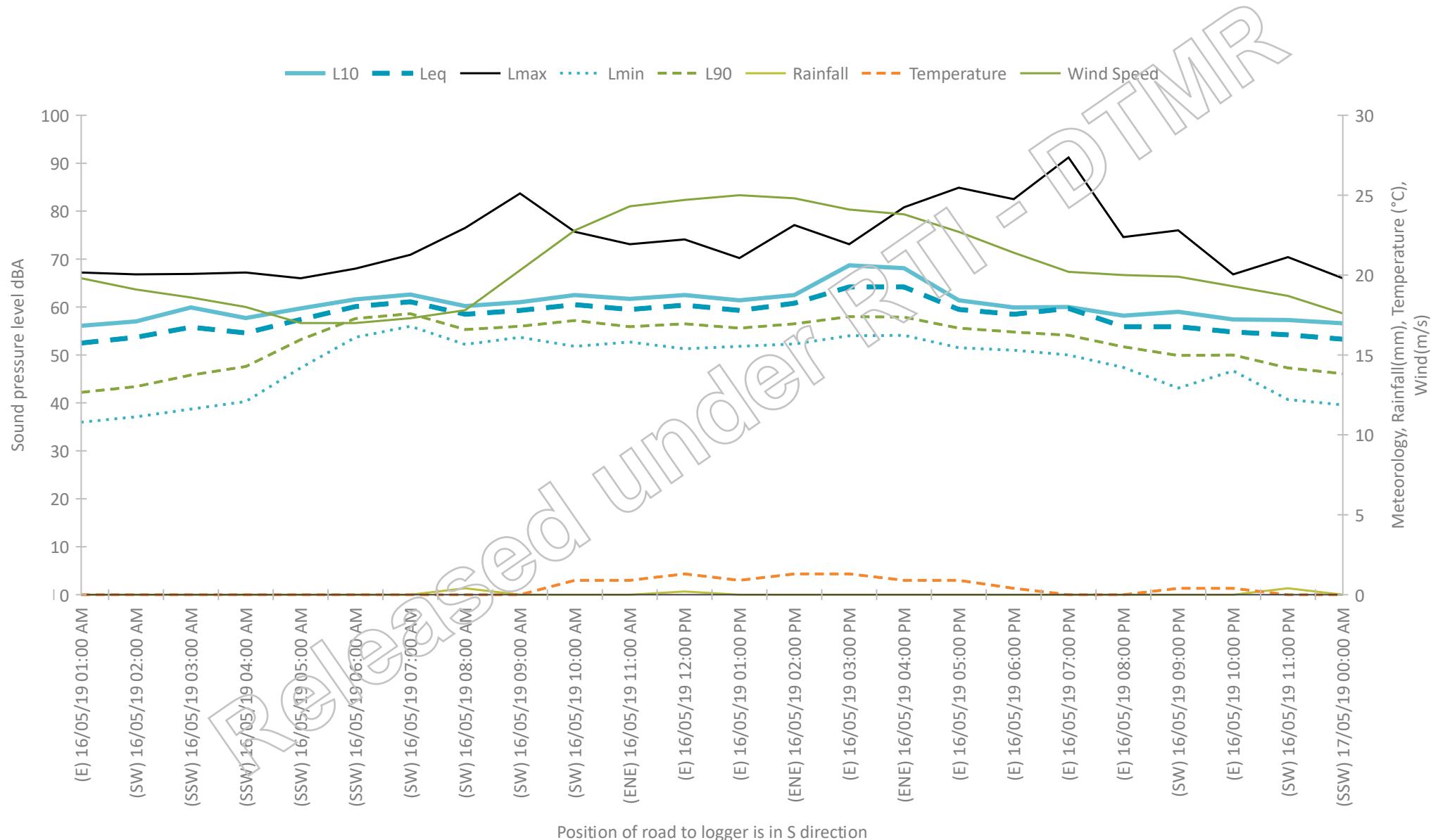
## Project 620.11007.00500 Version 1.0 21 Hassall Road DEAGON 15/05/2019



Address	21 Hassall Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>61.2</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.2	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	62.5	dBA
State Road	Gateway Motorway	Distance	240 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.7	dBA
Instrument type	Ngara	Microphone height	3.5 m	LA90 (8 hour)	49.3	dBA
Instrument serial no	8780bd	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	52.8	dBA
Time scale	60 mins	Operator	N/R	Prediction	Predicted 10 year horizon LA10 (18 hour) 62.7 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 16/05/19	1:00	52.5	67.2	61.9	56.1	48.5	42.2	36.0	0.0	19.8	E	0.0
Thu 16/05/19	2:00	53.7	66.8	63.2	57.0	49.5	43.4	37.1	0.0	19.1	SW	0.0
Thu 16/05/19	3:00	55.8	66.9	63.0	59.9	52.8	45.8	38.7	0.0	18.6	SSW	0.0
Thu 16/05/19	4:00	54.6	67.2	61.1	57.7	53.1	47.6	40.3	0.0	18.0	SSW	0.0
Thu 16/05/19	5:00	57.4	66.0	62.2	59.7	56.7	53.2	47.3	0.0	17.0	SSW	0.0
Thu 16/05/19	6:00	60.1	68.0	63.7	61.6	59.7	57.6	53.7	0.0	17.0	SSW	0.0
Thu 16/05/19	7:00	61.1	70.9	65.0	62.6	60.7	58.6	56.0	0.0	17.3	SW	0.0
Thu 16/05/19	8:00	58.5	76.5	63.5	60.2	57.9	55.3	52.2	0.4	17.8	SW	0.0
Thu 16/05/19	9:00	59.3	83.7	64.3	61.0	58.0	56.0	53.7	0.0	20.3	SW	0.0
Thu 16/05/19	10:00	60.5	75.7	65.4	62.5	59.7	57.2	51.8	0.0	22.8	SW	0.9
Thu 16/05/19	11:00	59.5	73.1	65.3	61.7	58.5	55.9	52.7	0.0	24.3	ENE	0.9
Thu 16/05/19	12:00	60.4	74.1	66.2	62.5	59.4	56.5	51.3	0.2	24.7	E	1.3
Thu 16/05/19	13:00	59.3	70.2	64.5	61.4	58.5	55.6	51.8	0.0	25.0	E	0.9
Thu 16/05/19	14:00	60.8	77.1	69.2	62.5	59.3	56.5	52.3	0.0	24.8	ENE	1.3
Thu 16/05/19	15:00	64.2	73.1	71.5	68.7	60.8	58.0	54.0	0.0	24.1	E	1.3
Thu 16/05/19	16:00	64.2	80.8	72.7	68.1	60.8	57.9	54.1	0.0	23.8	ENE	0.9
Thu 16/05/19	17:00	59.5	84.9	64.7	61.4	58.4	55.6	51.5	0.0	22.7	E	0.9
Thu 16/05/19	18:00	58.5	82.5	63.1	59.9	57.1	54.8	51.0	0.0	21.4	E	0.4
Thu 16/05/19	19:00	59.7	91.2	63.4	60.0	56.5	54.1	50.0	0.0	20.2	E	0.0
Thu 16/05/19	20:00	55.9	74.6	62.0	58.2	54.6	51.7	47.4	0.0	20.0	E	0.0
Thu 16/05/19	21:00	55.9	76.0	63.3	59.0	53.9	49.9	43.1	0.0	19.9	SW	0.4
Thu 16/05/19	22:00	54.8	66.8	61.8	57.4	53.3	50.0	46.7	0.0	19.3	E	0.4
Thu 16/05/19	23:00	54.2	70.4	62.0	57.3	51.9	47.3	40.7	0.4	18.7	SW	0.0
Fri 17/05/19	0:00	53.3	66.0	60.7	56.6	50.9	46.1	39.6	0.0	17.6	SSW	0.0

## Project 620.11007.00500 Version 1.0 21 Hassall Road DEAGON 16/05/2019



N/R

N/R

# Site 15 - 20 Morgan Circuit, Nudgee

The noise measurement data at 20 Morgan Circuit was collected in a free field location requiring a 2.5 dBA addition to calculate the façade corrected noise levels. The free field measured noise levels are shown in Table 27.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

**Table 27: Measured road traffic noise levels at 20 Morgan Circuit NUDGE 4014**

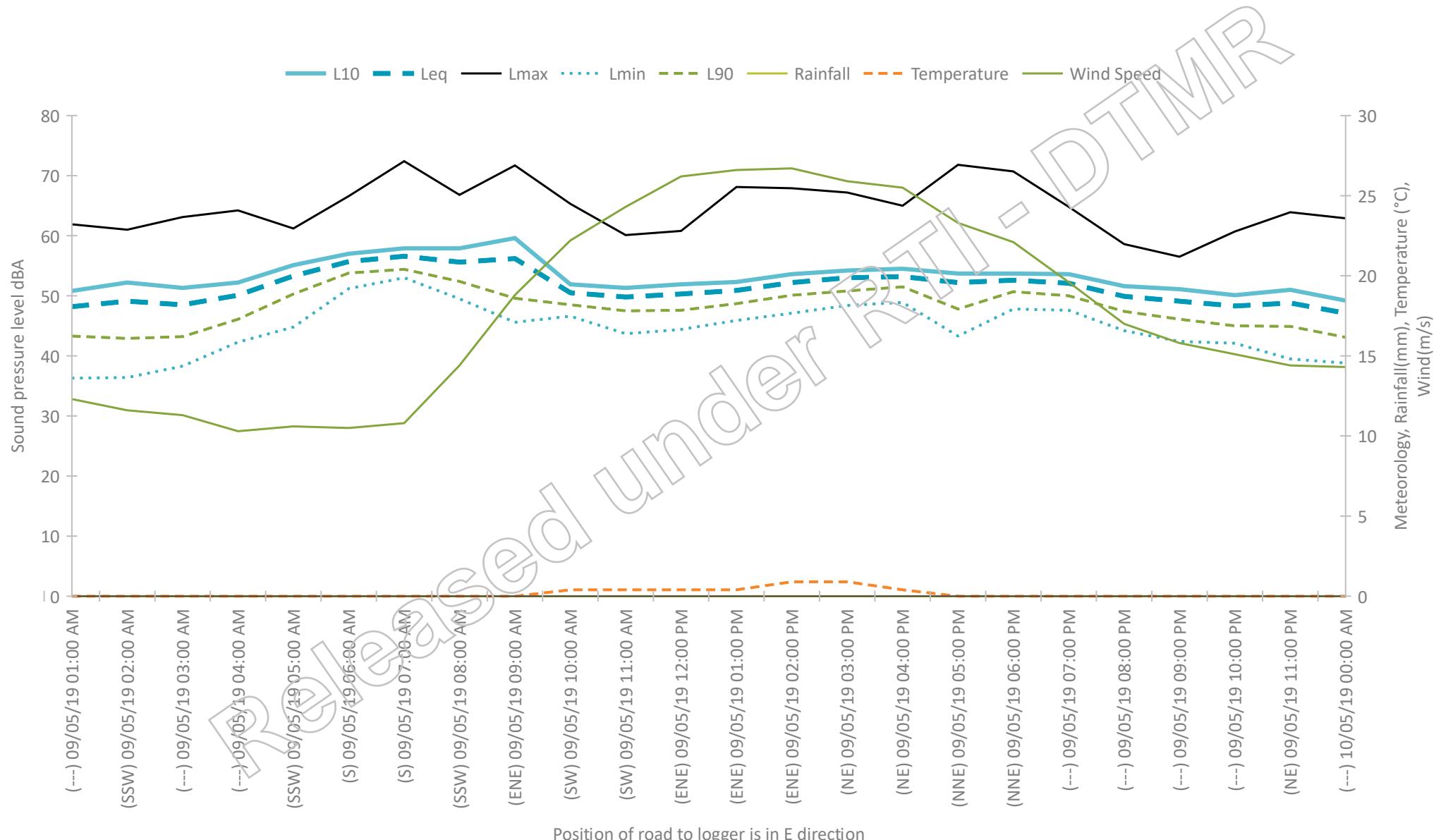
	Free field LA10 (18hr) dBA	Facade corrected LA10 (18hr) dBA +2.5dB
Thursday 09/05/19	53.3	55.8
Friday 10/05/19	54.6	57.1
Monday 13/05/19	55.4	57.9
Tuesday 14/05/19	54.8	57.3
Wednesday 15/05/19	55.7	58.2

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	20 Morgan Circuit		AADT	74217	<b>LA10 (18 hour)</b>	<b>53.3</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	52.3 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	53.0 dBA	
State Road	Gateway Motorway		Distance	191 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	54.4 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	1.4 m	LA90 (8 hour)	44.7 dBA
Instrument serial no	8781CE	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	48.2 dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 58.8 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	48.2	61.9	54.6	50.8	46.8	43.3	36.3	0.0	12.3	---	0.0
Thu 09/05/19	2:00	49.1	61.0	55.7	52.2	47.5	42.9	36.4	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	48.5	63.1	55.3	51.3	47.0	43.2	38.3	0.0	11.3	---	0.0
Thu 09/05/19	4:00	50.1	64.2	54.6	52.2	49.5	46.1	42.3	0.0	10.3	---	0.0
Thu 09/05/19	5:00	53.3	61.2	57.6	55.1	52.8	50.3	44.8	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	55.7	66.6	58.9	57.0	55.3	53.8	51.2	0.0	10.5	S	0.0
Thu 09/05/19	7:00	56.6	72.4	62.0	57.9	55.6	54.4	53.0	0.0	10.8	S	0.0
Thu 09/05/19	8:00	55.6	66.8	62.4	57.9	54.2	52.4	49.5	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	56.2	71.7	65.6	59.6	52.2	49.6	45.6	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	50.5	65.3	54.3	51.9	50.1	48.5	46.6	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	49.8	60.1	53.0	51.3	49.5	47.5	43.7	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	50.3	60.8	54.8	51.9	49.8	47.6	44.4	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	50.9	68.1	55.2	52.3	50.4	48.7	45.9	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	52.2	67.9	55.8	53.6	51.8	50.1	47.1	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	53.0	67.2	56.9	54.2	52.6	50.8	48.4	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	53.2	65.0	56.0	54.5	52.9	51.5	48.9	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	52.2	71.8	59.6	53.7	50.7	47.8	43.3	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	52.6	70.7	56.9	53.7	52.1	50.7	47.8	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	52.1	64.8	55.4	53.6	51.6	50.0	47.6	0.0	19.6	---	0.0
Thu 09/05/19	20:00	49.9	58.6	53.6	51.6	49.5	47.4	44.2	0.0	17.0	---	0.0
Thu 09/05/19	21:00	49.1	56.5	53.8	51.1	48.4	46.1	42.4	0.0	15.8	---	0.0
Thu 09/05/19	22:00	48.3	60.7	54.6	50.1	47.3	45.0	42.1	0.0	15.1	---	0.0
Thu 09/05/19	23:00	48.8	63.9	55.4	51.0	47.7	44.9	39.5	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	47.1	62.9	52.9	49.2	46.0	43.1	38.8	0.0	14.3	---	0.0

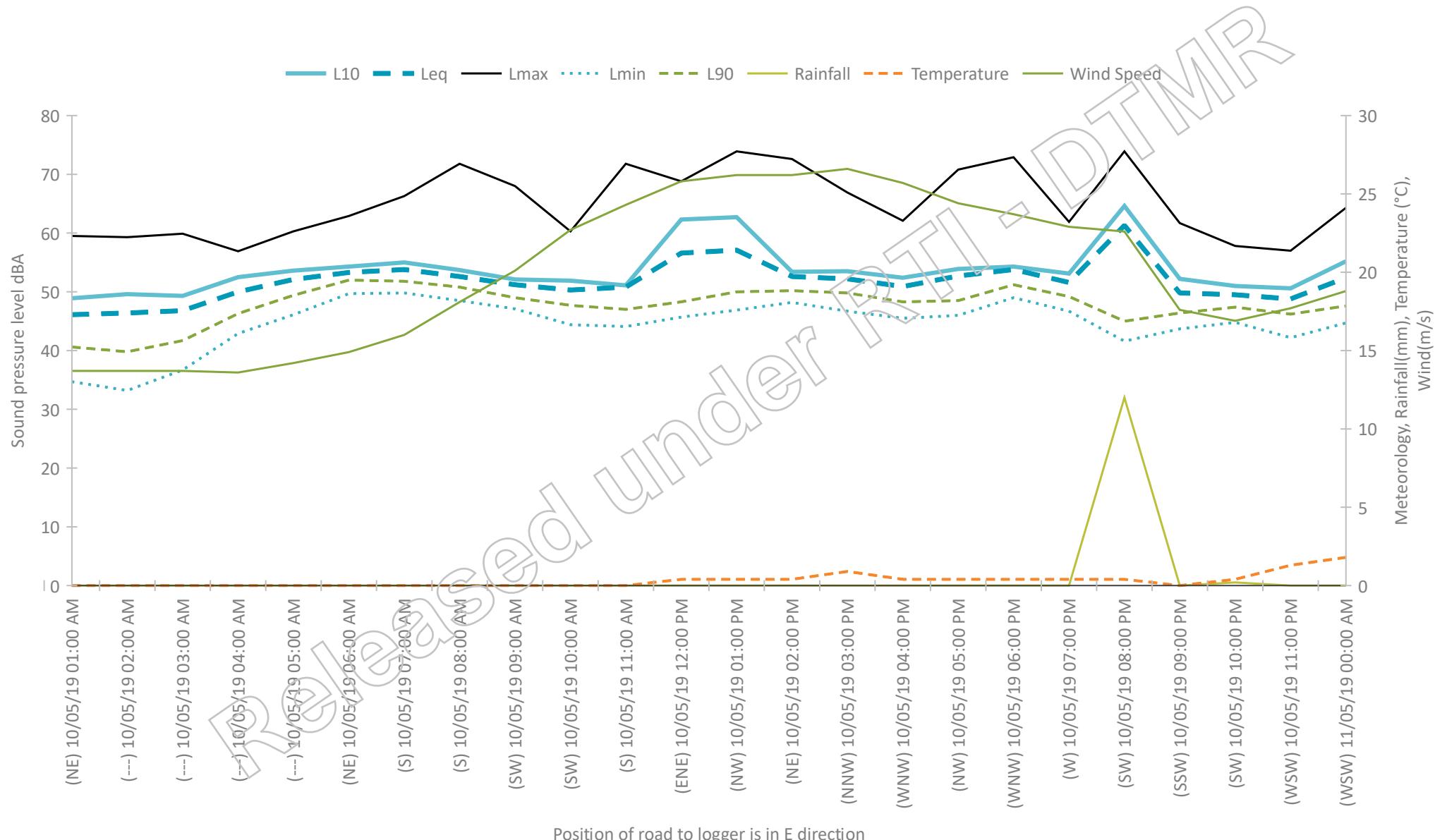
## Project 620.11007.00500 Version 1.0 20 Morgan Circuit NUDGE 9/05/2019



Address	20 Morgan Circuit	AADT	74217	<b>LA10 (18 hour)</b>	<b>54.6</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	53.3 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	58.0 dBA
State Road	Gateway Motorway	Distance	191 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	54.7 dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	47.3 dBA
Instrument serial no	8781CE	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	47.7 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	58.1 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	46.1	59.5	52.3	48.9	44.7	40.6	34.7	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	46.4	59.3	54.7	49.6	44.2	39.8	33.2	0.0	13.7	---	0.0
Fri 10/05/19	3:00	46.8	59.9	52.3	49.3	45.7	41.7	36.7	0.0	13.7	---	0.0
Fri 10/05/19	4:00	50.0	56.9	55.1	52.5	49.0	46.3	42.9	0.0	13.6	---	0.0
Fri 10/05/19	5:00	52.1	60.3	55.3	53.6	51.8	49.4	46.1	0.0	14.2	---	0.0
Fri 10/05/19	6:00	53.3	62.9	55.9	54.3	53.1	52.0	49.7	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	53.8	66.3	59.0	55.0	53.2	51.8	49.8	0.0	16.0	S	0.0
Fri 10/05/19	8:00	52.6	71.8	56.2	53.7	52.1	50.8	48.5	0.0	18.1	S	0.0
Fri 10/05/19	9:00	51.2	68.0	56.2	52.1	50.4	49.0	47.1	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	50.3	60.3	56.1	51.9	49.6	47.7	44.4	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	50.8	71.8	57.2	51.1	49.0	47.0	44.1	0.0	24.3	S	0.0
Fri 10/05/19	12:00	56.6	68.8	66.1	62.3	50.4	48.3	45.7	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	57.1	73.9	66.4	62.7	51.9	50.0	46.9	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	52.6	72.6	56.7	53.4	51.7	50.2	48.2	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	52.2	66.9	56.4	53.5	51.7	49.8	46.7	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	50.9	62.1	54.2	52.4	50.5	48.3	45.5	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	52.7	70.8	61.9	53.9	50.7	48.5	46.0	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	53.8	72.9	60.3	54.3	52.8	51.2	49.0	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	51.6	61.9	55.6	53.1	51.2	49.2	46.7	0.0	22.9	W	0.4
Fri 10/05/19	20:00	61.3	73.9	71.9	64.6	48.9	45.0	41.6	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	49.8	61.7	54.8	52.2	48.8	46.4	43.7	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	49.5	57.8	53.1	51.0	49.2	47.4	44.8	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	48.8	57.0	52.9	50.6	48.3	46.2	42.2	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	52.4	64.3	59.7	55.2	50.6	47.6	44.7	0.0	18.8	WSW	1.8

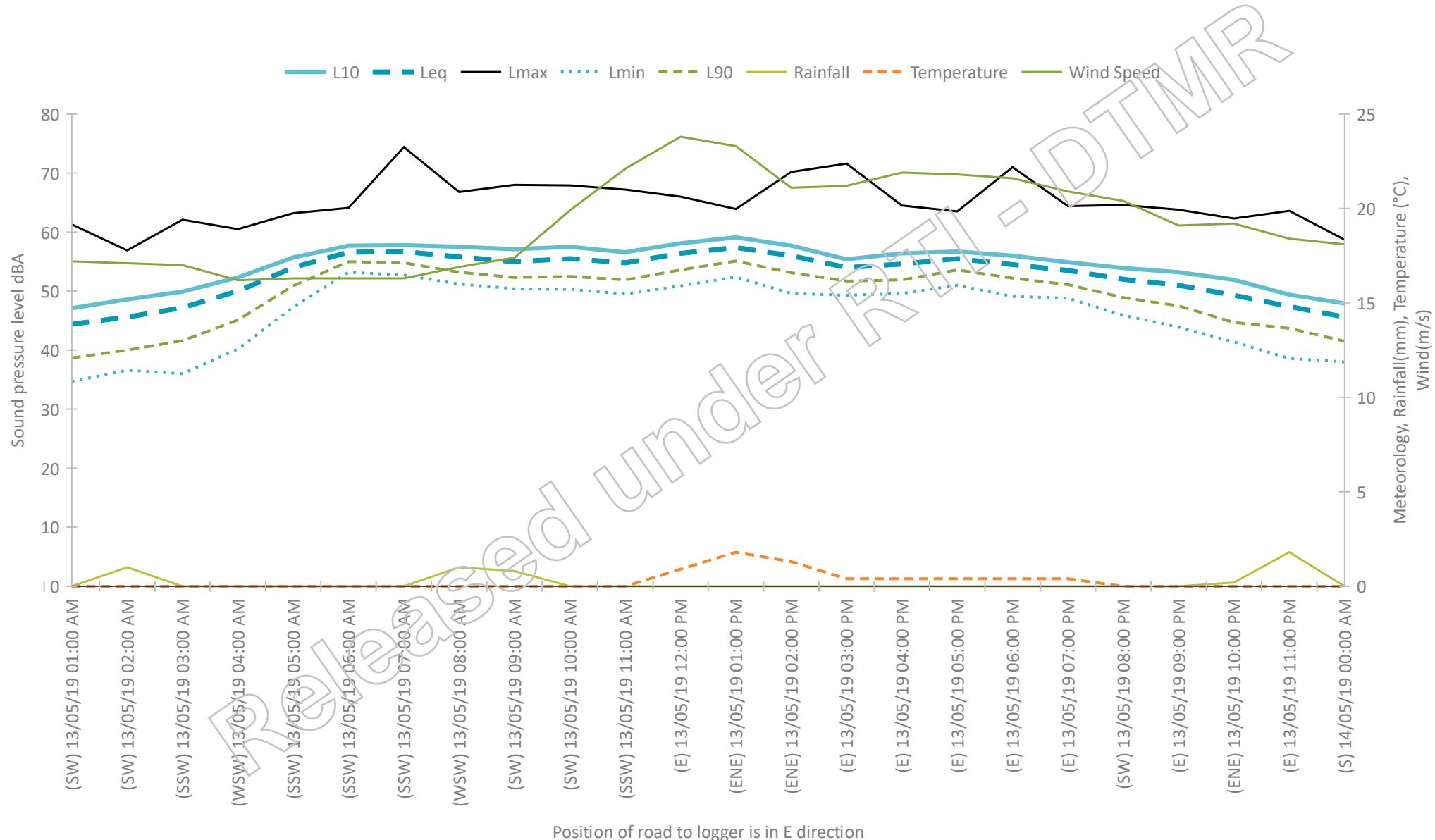
## Project 620.11007.00500 Version 1.0 20 Morgan Circuit NUDGEE 10/05/2019



Address	20 Morgan Circuit	AADT	74217	<b>LA10 (18 hour)</b>	<b>55.4</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	54.1 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	55.0 dBA	
State Road	Gateway Motorway	Distance	191 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	57.2 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	44.8 dBA	
Instrument serial no	8781CE	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	49.4 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Free field		
				Predicted 10 year horizon LA10 (18 hour) 58.8 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	44.4	61.3	51.0	47.1	42.9	38.7	34.7	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	45.6	56.9	52.2	48.6	44.2	40.0	36.6	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	47.2	62.1	54.0	49.9	45.6	41.6	36.0	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	50.0	60.5	54.4	52.3	49.5	45.1	40.2	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	54.0	63.2	57.9	55.7	53.7	50.9	47.3	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	56.6	64.1	59.2	57.7	56.3	55.0	53.2	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	56.7	74.4	60.2	57.8	56.1	54.8	52.7	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	55.8	66.8	60.8	57.5	55.0	53.2	51.2	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	55.0	68.0	61.3	57.1	53.7	52.3	50.4	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	55.5	67.9	62.3	57.5	54.2	52.5	50.3	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	54.8	67.2	60.3	56.6	53.9	51.9	49.5	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	56.4	66.0	60.3	58.1	55.9	53.6	50.9	0.0	23.8	E	0.9
Mon 13/05/19	13:00	57.4	63.9	61.1	59.1	57.0	55.1	52.4	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	56.0	70.2	60.2	57.7	55.4	53.1	49.6	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	54.0	71.6	58.0	55.4	53.5	51.7	49.3	0.0	21.2	E	0.4
Mon 13/05/19	16:00	54.6	64.5	58.0	56.4	54.1	51.9	49.6	0.0	21.9	E	0.4
Mon 13/05/19	17:00	55.5	63.5	58.4	56.7	55.1	53.6	51.0	0.0	21.8	E	0.4
Mon 13/05/19	18:00	54.5	71.0	59.2	56.0	53.8	52.2	49.1	0.0	21.6	E	0.4
Mon 13/05/19	19:00	53.5	64.4	58.2	54.9	52.9	51.1	48.8	0.0	20.9	E	0.4
Mon 13/05/19	20:00	52.0	64.6	57.2	53.9	51.2	48.9	45.9	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	51.0	63.8	56.0	53.2	50.1	47.5	43.9	0.0	19.1	E	0.0
Mon 13/05/19	22:00	49.3	62.3	56.1	51.9	47.7	44.7	41.4	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	47.4	63.6	53.3	49.4	46.5	43.7	38.6	1.8	18.4	E	0.0
Tue 14/05/19	0:00	45.6	58.7	52.1	47.9	44.3	41.5	38.0	0.0	18.1	S	0.0

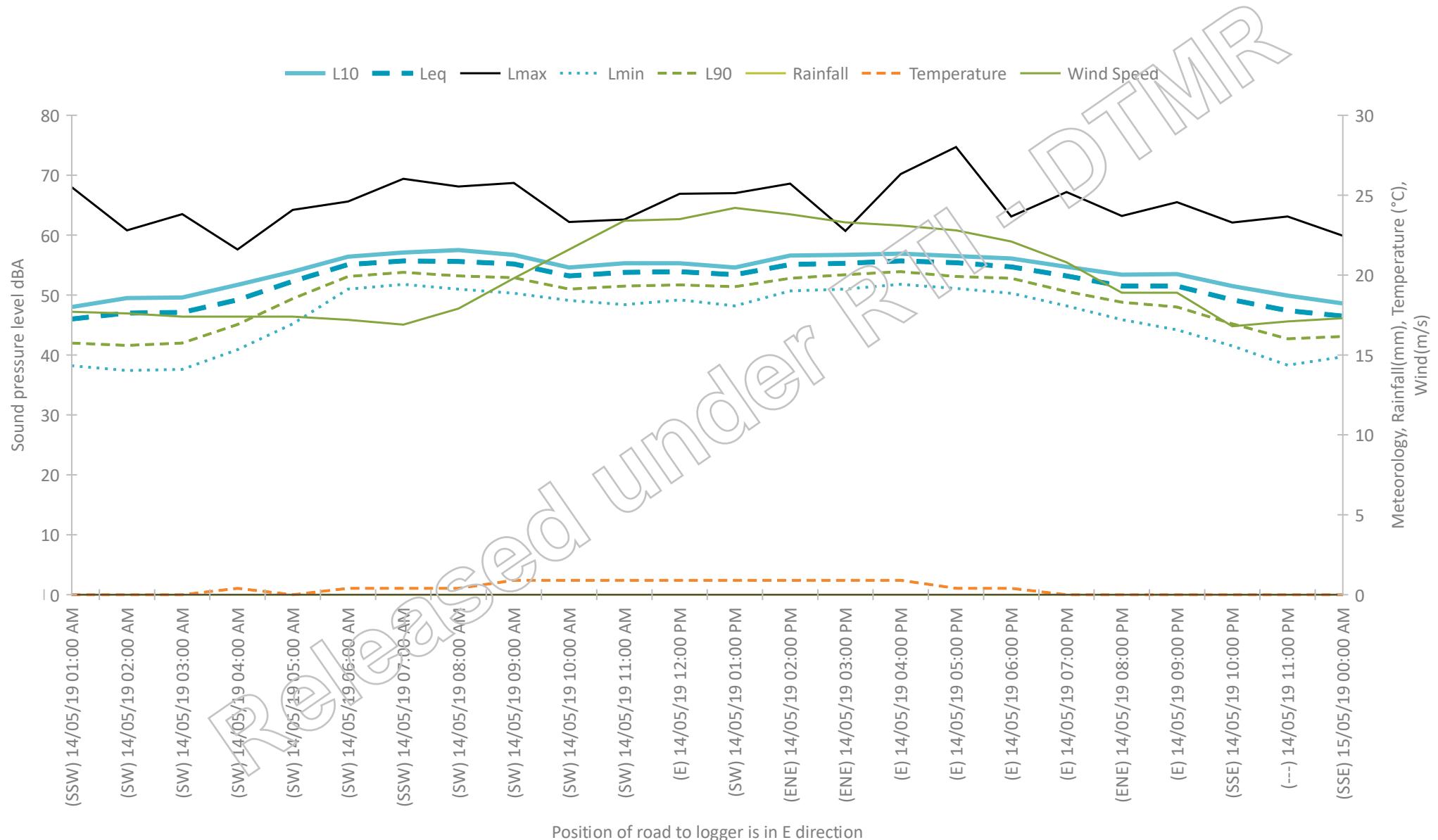
## Project 620.11007.00500 Version 1.0 20 Morgan Circuit NUDGEE 13/05/2019



Address	20 Morgan Circuit	AADT	74217	<b>LA10 (18 hour)</b>	<b>54.8</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	53.2 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	56.0 dBA
State Road	Gateway Motorway	Distance	191 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	56.2 dBA
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	44.9 dBA
Instrument serial no	8781CE	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	49.3 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	58.2 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	46.0	68.0	52.5	48.0	44.8	42.0	38.2	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	47.0	60.8	54.5	49.5	45.4	41.6	37.4	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	47.1	63.5	53.1	49.6	45.9	42.0	37.6	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	49.2	57.6	53.8	51.7	48.5	45.1	40.9	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	52.3	64.2	56.4	53.9	51.8	49.4	45.2	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	55.1	65.6	58.7	56.4	54.8	53.1	51.0	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	55.7	69.4	60.3	57.1	55.0	53.8	51.8	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	55.6	68.1	61.3	57.5	54.6	53.2	51.0	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	55.2	68.7	60.4	56.7	54.5	52.9	50.3	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	53.2	62.2	57.6	54.6	52.6	51.0	49.1	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	53.8	62.6	57.6	55.3	53.4	51.5	48.4	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	53.9	66.9	57.1	55.3	53.4	51.7	49.2	0.0	23.5	E	0.9
Tue 14/05/19	13:00	53.4	67.0	57.2	54.6	52.9	51.4	48.2	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	55.1	68.6	59.0	56.6	54.6	52.8	50.7	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	55.3	60.7	58.4	56.7	54.9	53.4	51.0	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	55.7	70.2	59.2	56.9	55.2	53.9	51.8	0.0	23.1	E	0.9
Tue 14/05/19	17:00	55.4	74.7	60.0	56.5	54.7	53.1	51.1	0.0	22.8	E	0.4
Tue 14/05/19	18:00	54.7	63.1	57.8	56.1	54.3	52.8	50.3	0.0	22.1	E	0.4
Tue 14/05/19	19:00	53.2	67.2	57.4	54.7	52.7	50.6	48.2	0.0	20.8	E	0.0
Tue 14/05/19	20:00	51.5	63.2	55.7	53.4	50.9	48.8	45.9	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	51.5	65.5	58.0	53.5	50.2	48.0	44.2	0.0	18.9	E	0.0
Tue 14/05/19	22:00	49.2	62.1	54.9	51.5	48.1	45.2	41.5	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	47.4	63.1	54.1	49.9	45.7	42.7	38.3	0.0	17.1	---	0.0
Wed 15/05/19	0:00	46.5	59.9	51.9	48.6	45.7	43.1	39.7	0.0	17.3	SSE	0.0

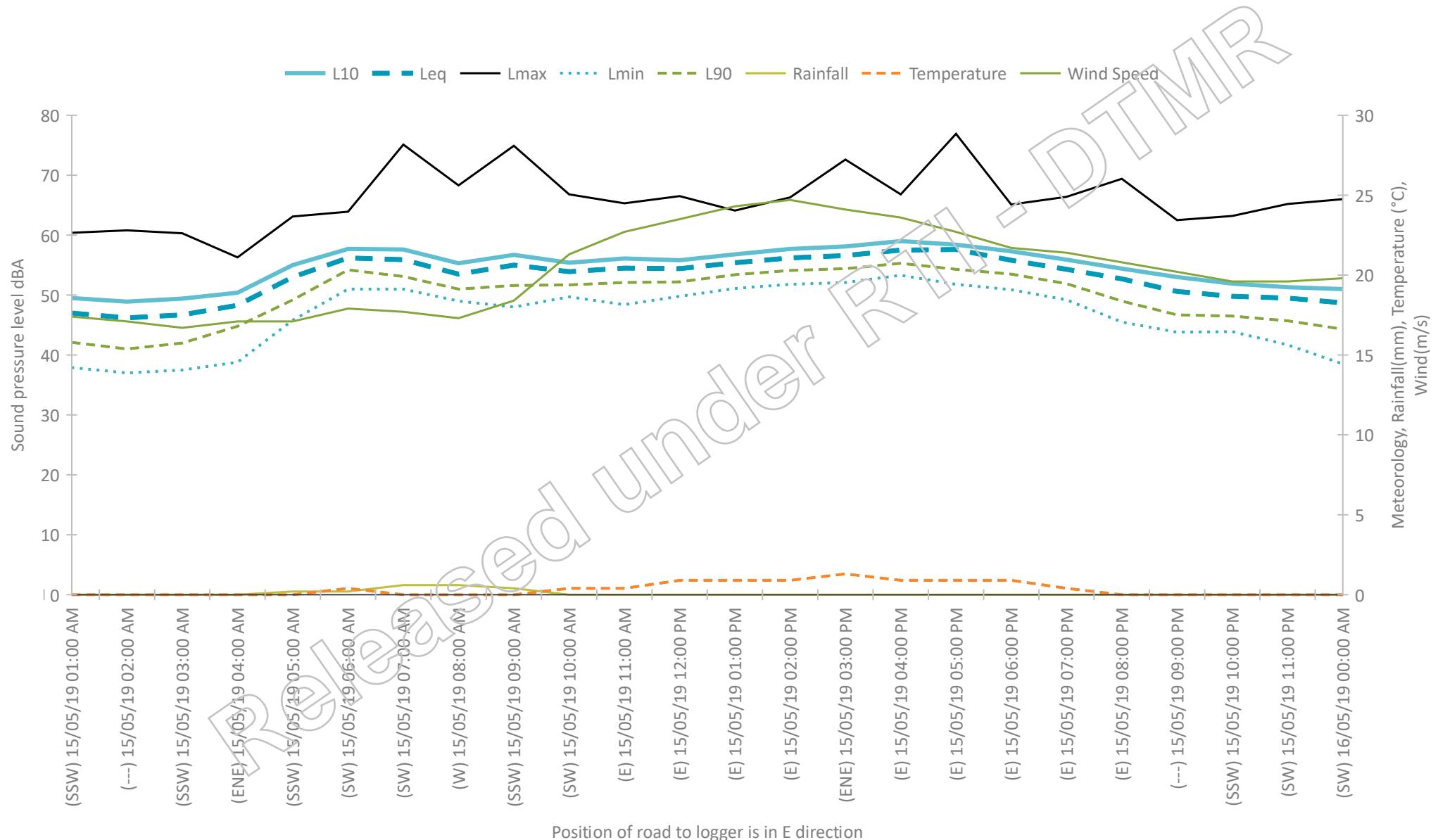
## Project 620.11007.00500 Version 1.0 20 Morgan Circuit NUDGEE 14/05/2019



Address	20 Morgan Circuit	AADT	74217	<b>LA10 (18 hour)</b>	<b>55.7</b> dBA	
Contact name	N/R	AADT year	2019	LAeq (24 hour)	54.2 dBA	
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	50.0 dBA	
State Road	Gateway Motorway	Distance	191 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	57.0 dBA	
Instrument type	Ngara	Microphone height	1.4 m	LA90 (8 hour)	42.8 dBA	
Instrument serial no	8781CE	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	49.8 dBA	
Time scale	60 mins	Operator	N/R	Facade		
				Free field		
				Predicted 10 year horizon LA10 (18 hour) 59.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	47.0	60.4	53.2	49.5	45.8	42.1	37.9	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	46.2	60.8	52.8	48.9	44.7	41.0	37.0	0.0	17.1	---	0.0
Wed 15/05/19	3:00	46.7	60.3	52.7	49.4	45.5	42.0	37.5	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	48.3	56.3	52.3	50.4	47.7	44.8	38.8	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	53.0	63.1	57.9	55.0	52.5	49.2	45.8	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	56.2	63.9	59.2	57.7	55.7	54.2	51.0	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	55.9	75.1	61.9	57.6	54.8	53.1	51.0	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	53.5	68.3	59.5	55.3	52.6	51.0	49.0	0.6	17.3	W	0.0
Wed 15/05/19	9:00	55.0	74.9	61.6	56.7	53.7	51.6	48.0	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	53.9	66.8	58.2	55.4	53.3	51.7	49.7	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	54.5	65.3	58.6	56.1	53.9	52.1	48.4	0.0	22.7	E	0.4
Wed 15/05/19	12:00	54.4	66.5	58.7	55.8	53.9	52.2	49.8	0.0	23.5	E	0.9
Wed 15/05/19	13:00	55.4	64.1	58.9	56.8	54.9	53.4	51.1	0.0	24.3	E	0.9
Wed 15/05/19	14:00	56.2	66.3	59.6	57.7	55.8	54.1	51.8	0.0	24.7	E	0.9
Wed 15/05/19	15:00	56.6	72.6	60.2	58.1	56.0	54.4	52.1	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	57.5	66.8	60.5	59.0	57.2	55.3	53.3	0.0	23.6	E	0.9
Wed 15/05/19	17:00	57.6	76.9	66.3	58.4	56.0	54.3	51.8	0.0	22.7	E	0.9
Wed 15/05/19	18:00	55.8	65.1	59.3	57.3	55.4	53.5	50.9	0.0	21.7	E	0.9
Wed 15/05/19	19:00	54.3	66.4	57.8	55.9	53.9	51.9	49.2	0.0	21.4	E	0.4
Wed 15/05/19	20:00	52.7	69.4	59.0	54.4	51.6	49.0	45.5	0.0	20.8	E	0.0
Wed 15/05/19	21:00	50.6	62.5	56.9	53.0	49.4	46.7	43.8	0.0	20.2	---	0.0
Wed 15/05/19	22:00	49.8	63.2	55.2	51.9	48.8	46.5	43.9	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	49.5	65.2	56.7	51.3	48.3	45.7	41.7	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	48.7	66.0	55.8	51.0	47.2	44.3	38.5	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 20 Morgan Circuit NUDGEE 15/05/2019



N/R

# Site 16 - 26 Depot Road, Deagon

The noise measurement data at 26 Depot Road was collected in a free field location requiring a 2.5 dBA addition to calculate the façade corrected noise levels. The free field measured noise levels are shown in Table 28.

For residential sensitive locations near to an existing road, the criterion level is 68 decibels when measured as an LA10(18 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 10/05/2019 to 17/05/2019 respectively.

**Table 28: Measured road traffic noise levels at 26 Depot Road DEAGON 4017**

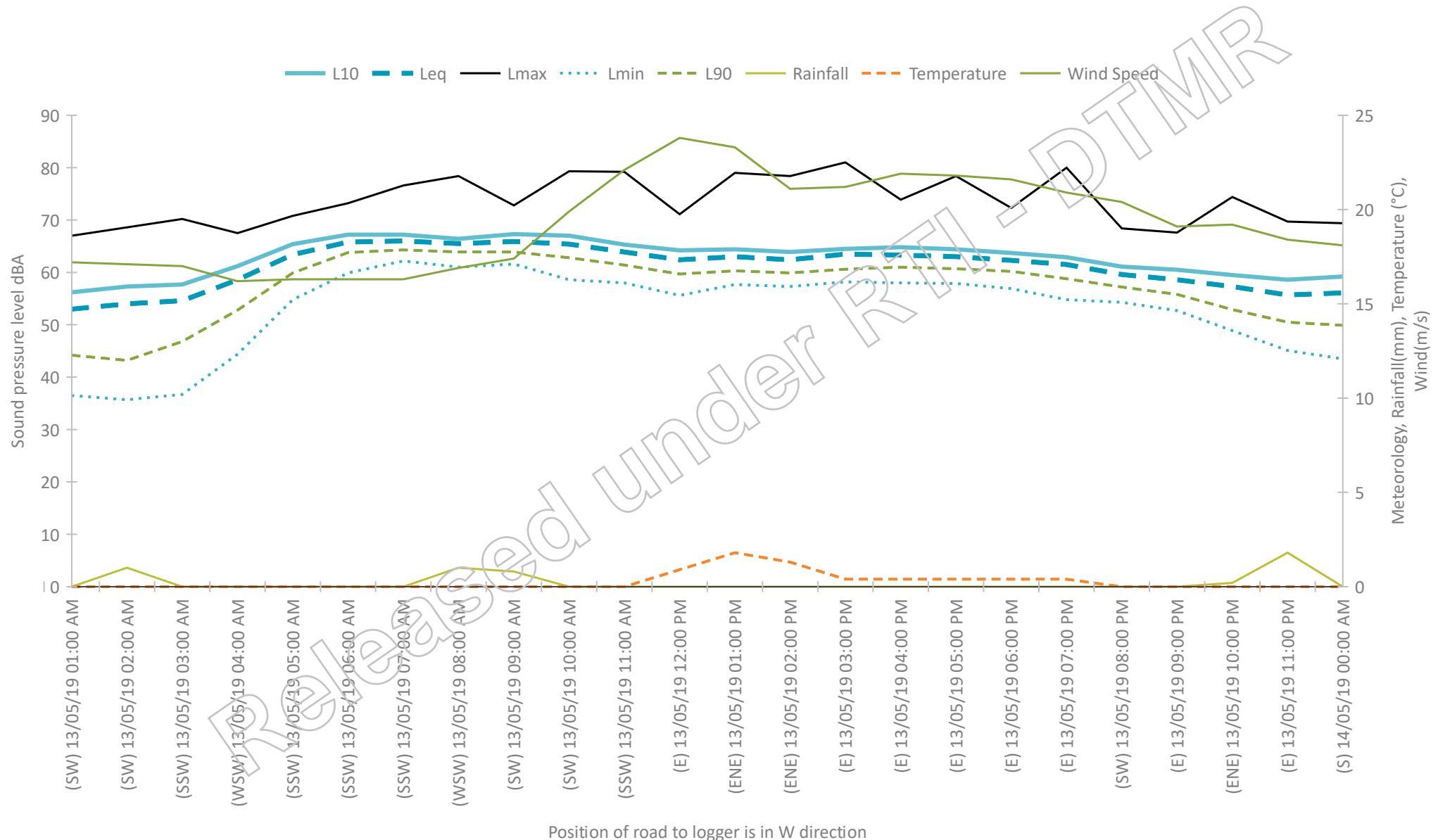
	Free field LA10 (18hr) dBA	Facade corrected LA10 (18hr) dBA +2.5dB
Monday 13/05/19	63.6	66.1
Tuesday 14/05/19	63.0	65.5
Wednesday 15/05/19	63.6	66.1
Thursday 16/05/19	63.2	65.7

The level results were consistent, with the 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	26 Depot Road		AADT	74217	<b>LA10 (18 hour)</b>	<b>63.6</b> dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	62.5 dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	66.5 dBA	
State Road	Gateway Motorway		Distance	37 m	LAeq (1 hour) Day	65.0 dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	65.3 dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	4.6 m	LA90 (8 hour)	53.5 dBA
Instrument serial no	878093	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.3 dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 65.1 dBA based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	53.0	67.0	62.1	56.2	50.2	44.2	36.5	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	54.0	68.6	63.6	57.3	50.4	43.2	35.7	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	54.6	70.2	62.5	57.7	52.2	46.8	36.7	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	58.6	67.5	64.4	61.2	57.7	52.8	44.4	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	63.4	70.8	67.1	65.4	62.9	59.9	54.8	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	65.8	73.2	69.2	67.2	65.5	63.8	59.9	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	66.0	76.6	68.9	67.2	65.7	64.3	62.2	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	65.5	78.4	68.3	66.4	65.2	63.9	61.0	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	65.9	72.8	69.2	67.3	65.5	63.9	61.6	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	65.4	79.3	68.8	67.0	64.9	62.8	58.6	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	63.9	79.2	67.3	65.3	63.3	61.4	58.0	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	62.4	71.1	66.2	64.2	62.0	59.7	55.6	0.0	23.8	E	0.9
Mon 13/05/19	13:00	63.0	79.0	67.0	64.4	62.3	60.3	57.7	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	62.4	78.4	66.8	63.9	61.8	59.9	57.3	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	63.5	81.0	68.8	64.5	62.4	60.6	58.2	0.0	21.2	E	0.4
Mon 13/05/19	16:00	63.3	73.9	67.2	64.8	62.9	61.0	58.0	0.0	21.9	E	0.4
Mon 13/05/19	17:00	63.0	78.4	66.6	64.4	62.4	60.7	57.9	0.0	21.8	E	0.4
Mon 13/05/19	18:00	62.3	72.3	66.4	63.7	61.9	60.2	56.9	0.0	21.6	E	0.4
Mon 13/05/19	19:00	61.5	80.0	65.6	62.9	60.8	58.8	54.8	0.0	20.9	E	0.4
Mon 13/05/19	20:00	59.6	68.4	63.3	61.1	59.1	57.2	54.3	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	58.6	67.6	63.2	60.5	57.8	55.8	52.7	0.0	19.1	E	0.0
Mon 13/05/19	22:00	57.3	74.4	64.3	59.5	55.7	52.9	48.9	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	55.7	69.7	62.8	58.6	54.0	50.5	45.1	1.8	18.4	E	0.0
Tue 14/05/19	0:00	56.1	69.4	64.0	59.2	54.0	49.9	43.5	0.0	18.1	S	0.0

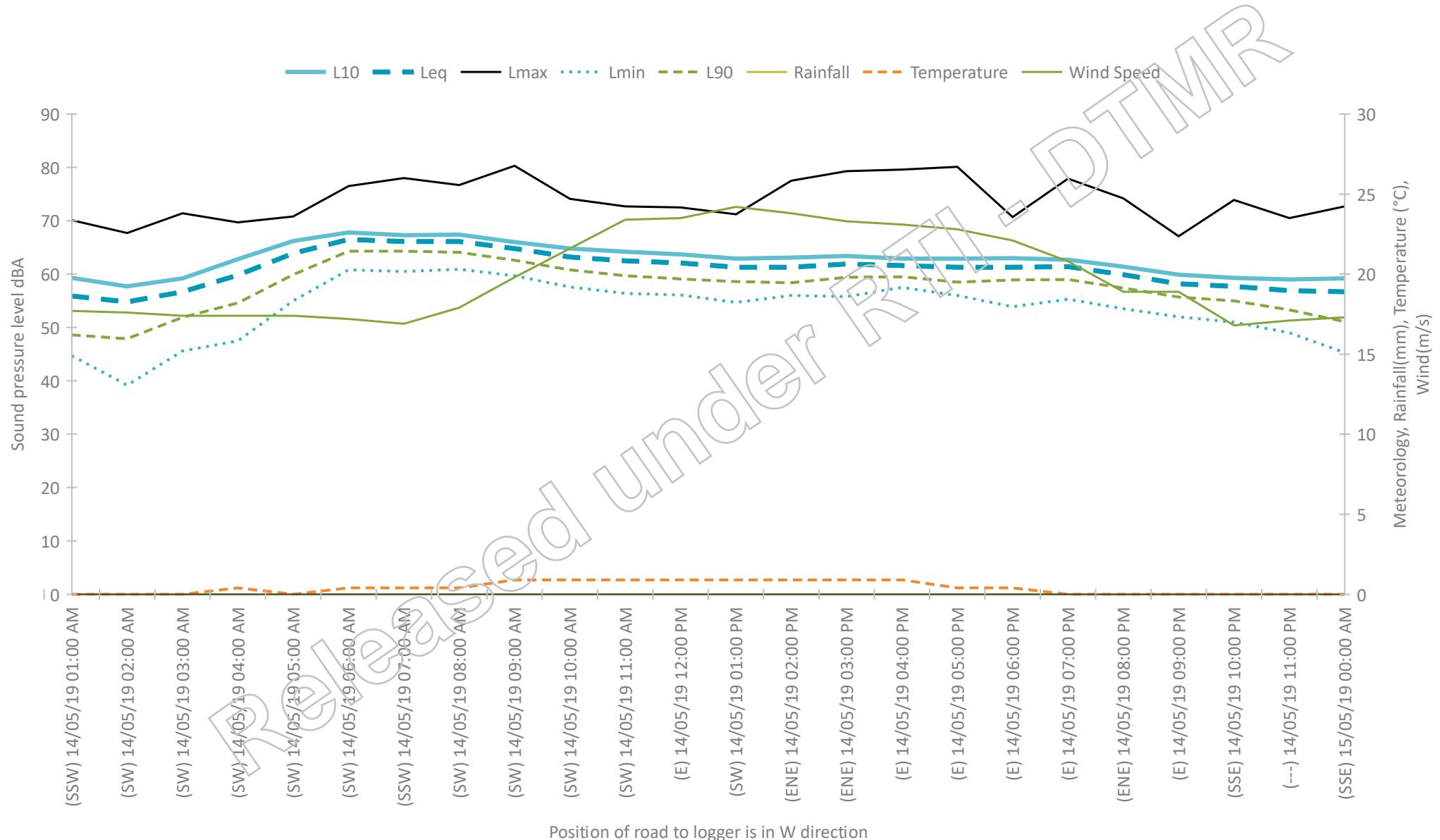
## Project 620.11007.00500 Version 1.0 26 Depot Road DEAGON 13/05/2019



Address	26 Depot Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>63.0</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	62.1	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	65.4	dBA
State Road	Gateway Motorway	Distance	37 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	64.3	dBA
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	53.3	dBA
Instrument serial no	878093	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.6	dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	64.4	dBA
				based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	55.9	70.1	64.0	59.3	53.0	48.6	44.7	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	54.8	67.7	62.6	57.7	52.9	47.9	39.2	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	56.7	71.4	62.9	59.2	55.4	51.9	45.6	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	59.8	69.7	65.8	62.8	58.6	54.6	47.5	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	63.9	70.8	68.0	66.2	63.3	59.9	55.0	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	66.5	76.5	69.4	67.8	66.3	64.3	60.8	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	66.1	78.0	68.9	67.3	65.8	64.3	60.5	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	66.1	76.7	69.1	67.4	65.7	64.1	60.9	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	64.8	80.3	68.1	66.0	64.4	62.6	59.7	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	63.2	74.1	66.5	64.8	62.8	60.8	57.6	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	62.5	72.7	65.9	64.2	62.0	59.7	56.4	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	62.1	72.5	66.1	63.7	61.6	59.1	56.1	0.0	23.5	E	0.9
Tue 14/05/19	13:00	61.3	71.2	65.4	62.9	60.9	58.6	54.7	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	61.3	77.5	66.0	63.1	60.5	58.4	56.0	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	61.9	79.3	65.7	63.4	61.4	59.4	55.8	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	61.6	79.6	65.3	62.9	61.1	59.5	57.5	0.0	23.1	E	0.9
Tue 14/05/19	17:00	61.3	80.1	66.0	62.9	60.6	58.5	56.0	0.0	22.8	E	0.4
Tue 14/05/19	18:00	61.3	70.7	64.8	63.0	60.9	58.9	53.9	0.0	22.1	E	0.4
Tue 14/05/19	19:00	61.4	77.9	65.0	62.7	60.8	59.0	55.3	0.0	20.8	E	0.0
Tue 14/05/19	20:00	59.9	74.2	64.6	61.4	59.3	57.4	53.5	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	58.2	67.1	62.4	59.9	57.6	55.7	52.0	0.0	18.9	E	0.0
Tue 14/05/19	22:00	57.7	73.9	63.0	59.3	56.9	55.0	51.0	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	56.9	70.5	64.0	59.0	55.7	53.3	49.0	0.0	17.1	---	0.0
Wed 15/05/19	0:00	56.7	72.7	63.4	59.2	55.4	51.1	45.3	0.0	17.3	SSE	0.0

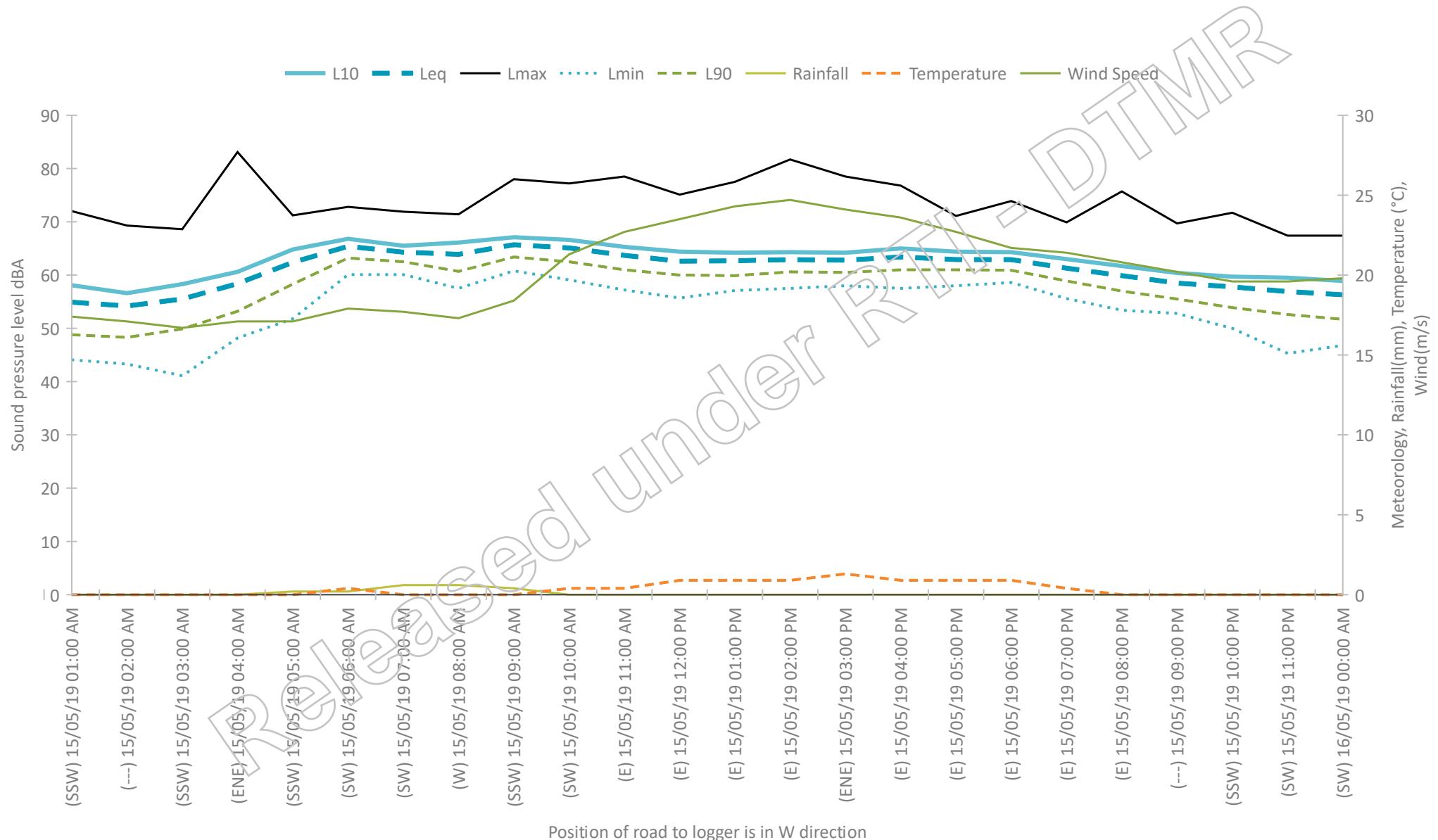
## Project 620.11007.00500 Version 1.0 26 Depot Road DEAGON 14/05/2019



Address	26 Depot Road		AADT	74217	<b>LA10 (18 hour)</b>	<b>63.6</b>	dBA	
Contact name	N/R		AADT year	2019	LAeq (24 hour)	62.2	dBA	
Region	Metropolitan		%CV	17.82	LAeq (1 hour) Night	64.5	dBA	
State Road	Gateway Motorway		Distance	37 m	LAeq (1 hour) Day	65.0	dBA	
State Road ID	U13C		Speed limit	100 km/hr	LA10 (12 hour)	65.1	dBA	
Instrument type	Ngara	Pre calibration	94.0	Microphone height	4.6 m	LA90 (8 hour)	53.5	dBA
Instrument serial no	878093	Post calibration	94.0	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.7	dBA
Time scale	60 mins	Operator	N/R	Facade	Free field	Predicted 10 year horizon LA10 (18 hour) 65.1 dBA based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	54.9	72.0	62.9	58.1	52.4	48.8	44.1	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	54.2	69.3	62.7	56.6	52.2	48.3	43.3	0.0	17.1	---	0.0
Wed 15/05/19	3:00	55.5	68.6	62.4	58.3	54.0	49.9	41.1	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	58.4	83.1	63.6	60.6	57.2	53.2	48.2	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	62.4	71.2	66.8	64.8	61.7	58.3	51.8	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	65.4	72.8	68.5	66.8	65.1	63.2	60.1	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	64.3	71.9	67.1	65.5	63.9	62.5	60.1	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	63.9	71.4	67.6	66.1	63.2	60.7	57.5	0.6	17.3	W	0.0
Wed 15/05/19	9:00	65.7	78.0	68.9	67.1	65.3	63.4	60.8	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	65.1	77.2	69.0	66.6	64.7	62.5	59.1	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	63.7	78.5	67.3	65.3	63.1	61.0	57.2	0.0	22.7	E	0.4
Wed 15/05/19	12:00	62.6	75.1	66.4	64.4	62.1	60.0	55.7	0.0	23.5	E	0.9
Wed 15/05/19	13:00	62.7	77.5	66.7	64.2	62.2	59.9	57.1	0.0	24.3	E	0.9
Wed 15/05/19	14:00	62.9	81.7	66.3	64.3	62.3	60.6	57.5	0.0	24.7	E	0.9
Wed 15/05/19	15:00	62.8	78.5	66.6	64.2	62.2	60.5	58.0	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	63.4	76.8	67.1	65.0	63.0	61.0	57.5	0.0	23.6	E	0.9
Wed 15/05/19	17:00	62.9	71.1	66.2	64.4	62.5	61.0	58.0	0.0	22.7	E	0.9
Wed 15/05/19	18:00	62.9	73.9	66.3	64.3	62.5	60.9	58.6	0.0	21.7	E	0.9
Wed 15/05/19	19:00	61.3	69.9	65.1	63.0	60.9	58.9	55.6	0.0	21.4	E	0.4
Wed 15/05/19	20:00	59.9	75.7	64.5	61.7	59.2	57.0	53.4	0.0	20.8	E	0.0
Wed 15/05/19	21:00	58.5	69.7	63.3	60.4	57.8	55.5	52.8	0.0	20.2	---	0.0
Wed 15/05/19	22:00	57.8	71.7	66.1	59.7	56.2	53.9	50.0	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	56.9	67.4	63.3	59.5	55.7	52.6	45.3	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	56.3	67.4	63.7	58.9	54.7	51.7	46.8	0.0	19.8	SW	0.0

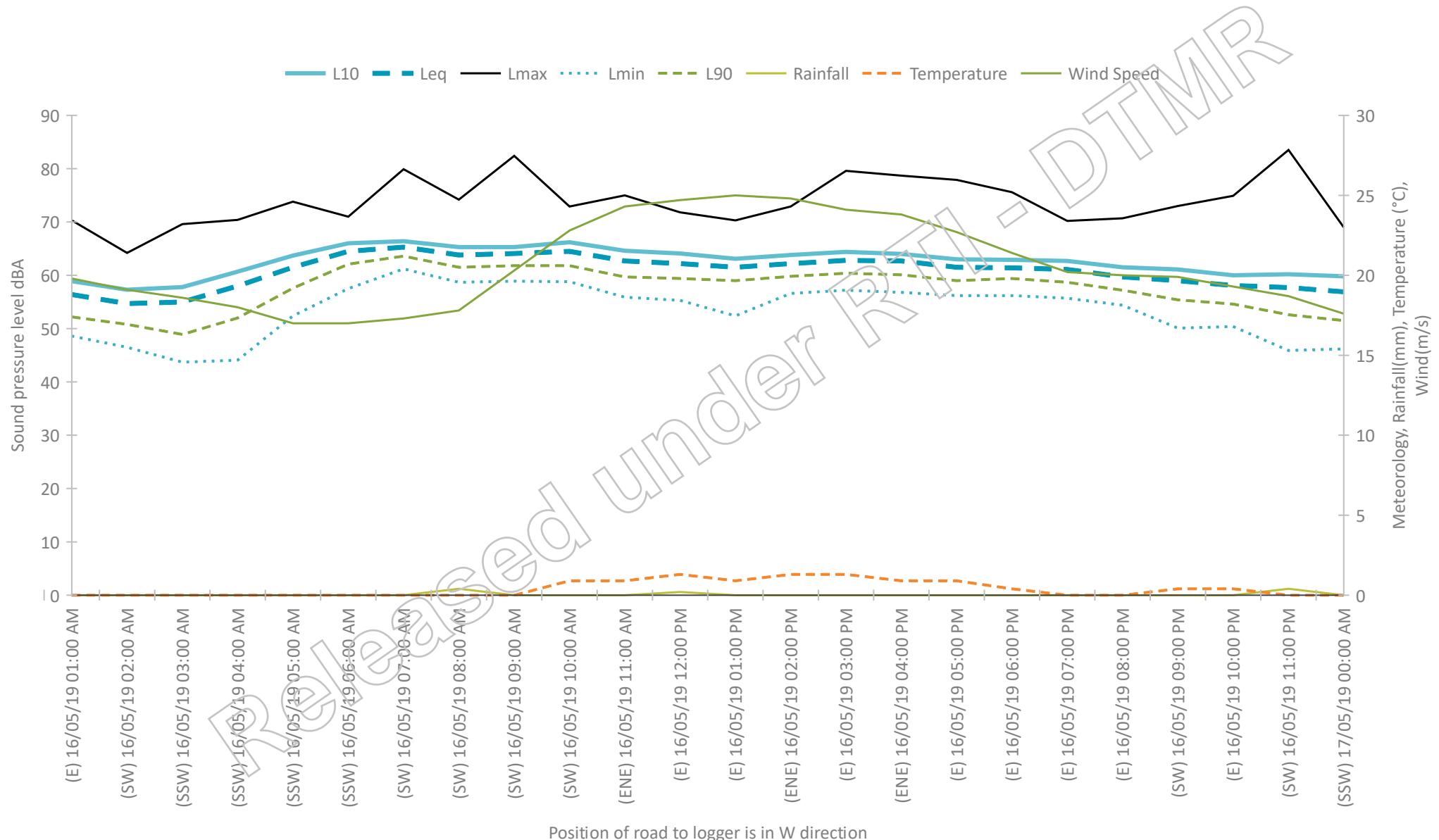
## Project 620.11007.00500 Version 1.0 26 Depot Road DEAGON 15/05/2019



Address	26 Depot Road	AADT	74217	<b>LA10 (18 hour)</b>	<b>63.2</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	61.6 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	65.7 dBA
State Road	Gateway Motorway	Distance	37 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	64.4 dBA
Instrument type	Ngara	Microphone height	4.6 m	LA90 (8 hour)	52.8 dBA
Instrument serial no	878093	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	57.5 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	64.7 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 16/05/19	1:00	56.4	70.3	63.6	58.9	54.7	52.2	48.6	0.0	19.8	E	0.0
Thu 16/05/19	2:00	54.7	64.2	61.2	57.3	53.2	50.8	46.5	0.0	19.1	SW	0.0
Thu 16/05/19	3:00	55.0	69.6	62.5	57.8	53.0	48.9	43.7	0.0	18.6	SSW	0.0
Thu 16/05/19	4:00	58.0	70.4	64.2	60.7	56.7	52.0	44.1	0.0	18.0	SSW	0.0
Thu 16/05/19	5:00	61.5	73.8	66.1	63.7	60.9	57.6	52.4	0.0	17.0	SSW	0.0
Thu 16/05/19	6:00	64.5	71.0	67.8	66.0	64.2	62.1	57.5	0.0	17.0	SSW	0.0
Thu 16/05/19	7:00	65.3	79.9	69.4	66.4	64.9	63.6	61.2	0.0	17.3	SW	0.0
Thu 16/05/19	8:00	63.8	74.2	67.7	65.3	63.5	61.5	58.7	0.4	17.8	SW	0.0
Thu 16/05/19	9:00	64.1	82.4	67.8	65.3	63.5	61.8	58.9	0.0	20.3	SW	0.0
Thu 16/05/19	10:00	64.5	72.9	68.0	66.2	64.1	61.8	58.8	0.0	22.8	SW	0.9
Thu 16/05/19	11:00	62.7	75.0	67.4	64.6	62.0	59.7	55.9	0.0	24.3	ENE	0.9
Thu 16/05/19	12:00	62.2	71.8	66.6	64.1	61.6	59.4	55.3	0.2	24.7	E	1.3
Thu 16/05/19	13:00	61.5	70.3	65.1	63.1	61.1	59.0	52.4	0.0	25.0	E	0.9
Thu 16/05/19	14:00	62.2	72.9	66.2	63.8	61.6	59.8	56.6	0.0	24.8	ENE	1.3
Thu 16/05/19	15:00	62.8	79.6	66.2	64.4	62.4	60.4	57.2	0.0	24.1	E	1.3
Thu 16/05/19	16:00	62.7	78.7	69.6	64.0	61.9	60.1	56.8	0.0	23.8	ENE	0.9
Thu 16/05/19	17:00	61.5	77.9	66.0	63.0	60.8	59.0	56.2	0.0	22.7	E	0.9
Thu 16/05/19	18:00	61.4	75.6	64.7	62.9	61.0	59.4	56.2	0.0	21.4	E	0.4
Thu 16/05/19	19:00	61.1	70.2	64.7	62.7	60.8	58.7	55.7	0.0	20.2	E	0.0
Thu 16/05/19	20:00	59.7	70.7	63.7	61.5	59.1	57.2	54.4	0.0	20.0	E	0.0
Thu 16/05/19	21:00	59.0	73.0	64.1	61.1	58.1	55.4	50.1	0.0	19.9	SW	0.4
Thu 16/05/19	22:00	58.1	74.9	63.4	60.0	57.0	54.6	50.4	0.0	19.3	E	0.4
Thu 16/05/19	23:00	57.7	83.5	64.6	60.2	55.8	52.6	45.9	0.4	18.7	SW	0.0
Fri 17/05/19	0:00	56.9	69.0	64.0	59.8	55.4	51.5	46.2	0.0	17.6	SSW	0.0

## Project 620.11007.00500 Version 1.0 26 Depot Road DEAGON 16/05/2019



N/R

N/R

# Site 17 - 27 John Fisher Drive, Bracken Ridge

The noise measurement data at John Fisher College BRACKEN RIDGE was collected in a facade corrected location. The facade corrected measured noise levels are shown in Table 29.

For educational sensitive locations near to an existing road, the criterion level is 65 decibels when measured as an LA10(1 hour) descriptor.

Weather events affecting the traffic noise data for up to two consecutive hours or three non-consecutive hours during a 24-hour measurement period were discarded and replaced with values determined by simple linear interpolation of the other data collected during that day or the substitution of measured noise data from other days of the same time period, as per the CoP. This includes the exclusion of data collected during periods of rain or average wind speeds greater than 3 m/s (where applicable). Weather data was collected using a portable weather station erected at monitoring locations within the study area during the noise monitoring period 8/05/2019 to 16/05/2019 respectively.

**Table 29: Measured road traffic noise levels at John Fisher College BRACKEN RIDGE 4017**

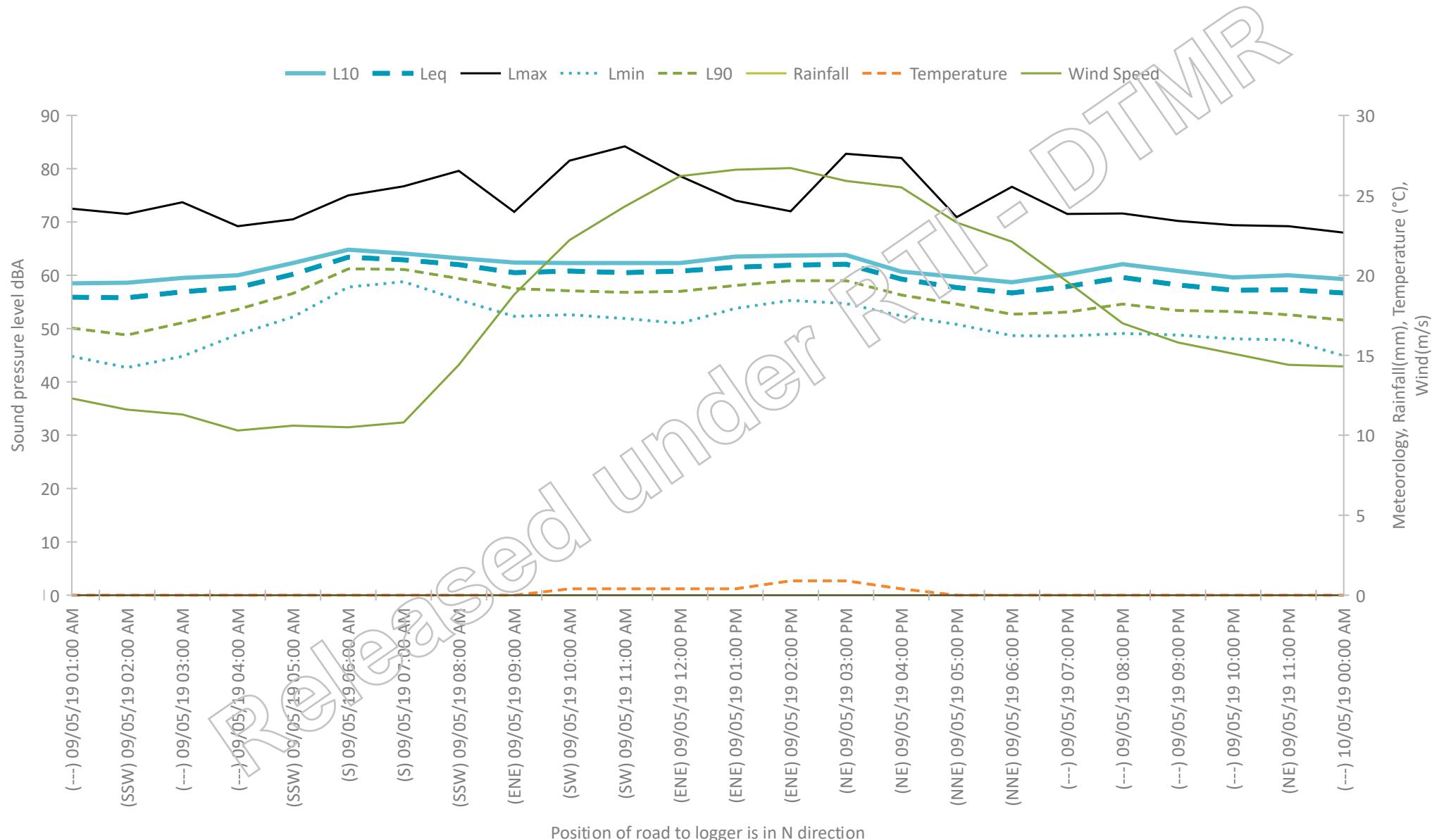
Facade corrected LA10 (18hr) dBA	
Thursday 09/05/19	63.8
Friday 10/05/19	66.3
Monday 13/05/19	65.6
Tuesday 14/05/19	65.0
Wednesday 15/05/19	65.0

The level results were consistent, within the assessment area, with all 2019 measured road traffic noise levels under the Departmental Criterion of 68dB(A).

Address	John Fisher College	AADT	74217	<b>LA10 (1 hour)</b>	<b>63.8</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	59.9 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	61.7 dBA
State Road	Gateway Motorway	Distance	43 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.2 dBA
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	52.1 dBA
Instrument serial no	8780ed	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.4 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	63.1 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Thu 09/05/19	1:00	55.9	72.5	63.0	58.5	54.4	50.1	44.8	0.0	12.3	---	0.0
Thu 09/05/19	2:00	55.8	71.5	64.2	58.6	53.8	48.8	42.7	0.0	11.6	SSW	0.0
Thu 09/05/19	3:00	56.9	73.7	63.9	59.5	55.4	51.1	44.8	0.0	11.3	---	0.0
Thu 09/05/19	4:00	57.7	69.2	63.2	60.0	56.7	53.6	48.9	0.0	10.3	---	0.0
Thu 09/05/19	5:00	60.2	70.5	65.7	62.3	59.3	56.6	52.2	0.0	10.6	SSW	0.0
Thu 09/05/19	6:00	63.4	75.0	66.8	64.8	63.0	61.2	57.8	0.0	10.5	S	0.0
Thu 09/05/19	7:00	62.9	76.7	66.9	64.1	62.4	61.1	58.8	0.0	10.8	S	0.0
Thu 09/05/19	8:00	62.0	79.6	68.0	63.2	61.2	59.4	55.4	0.0	14.4	SSW	0.0
Thu 09/05/19	9:00	60.5	71.9	65.4	62.4	59.9	57.5	52.3	0.0	18.8	ENE	0.0
Thu 09/05/19	10:00	60.8	81.5	65.5	62.3	59.5	57.1	52.6	0.0	22.2	SW	0.4
Thu 09/05/19	11:00	60.5	84.2	65.8	62.3	59.4	56.8	51.9	0.0	24.3	SW	0.4
Thu 09/05/19	12:00	60.8	78.6	66.6	62.3	59.7	57.0	51.0	0.0	26.2	ENE	0.4
Thu 09/05/19	13:00	61.5	74.0	67.2	63.5	60.6	58.1	53.8	0.0	26.6	ENE	0.4
Thu 09/05/19	14:00	61.9	72.0	66.9	63.7	61.2	59.0	55.3	0.0	26.7	ENE	0.9
Thu 09/05/19	15:00	62.1	82.8	65.9	63.8	61.6	59.0	54.7	0.0	25.9	NE	0.9
Thu 09/05/19	16:00	59.3	82.0	64.2	60.7	58.5	56.3	52.4	0.0	25.5	NE	0.4
Thu 09/05/19	17:00	57.7	70.9	62.0	59.7	57.1	54.6	50.8	0.0	23.3	NNE	0.0
Thu 09/05/19	18:00	56.7	76.6	63.1	58.7	55.5	52.7	48.7	0.0	22.1	NNE	0.0
Thu 09/05/19	19:00	57.9	71.5	64.8	60.2	56.4	53.1	48.6	0.0	19.6	---	0.0
Thu 09/05/19	20:00	59.6	71.6	66.1	62.1	58.4	54.6	49.1	0.0	17.0	---	0.0
Thu 09/05/19	21:00	58.2	70.2	65.1	60.8	56.8	53.4	48.8	0.0	15.8	---	0.0
Thu 09/05/19	22:00	57.2	69.4	63.2	59.6	56.1	53.2	48.1	0.0	15.1	---	0.0
Thu 09/05/19	23:00	57.3	69.2	63.6	60.0	56.0	52.6	47.9	0.0	14.4	NE	0.0
Fri 10/05/19	0:00	56.7	68.0	63.7	59.3	55.3	51.6	44.9	0.0	14.3	---	0.0

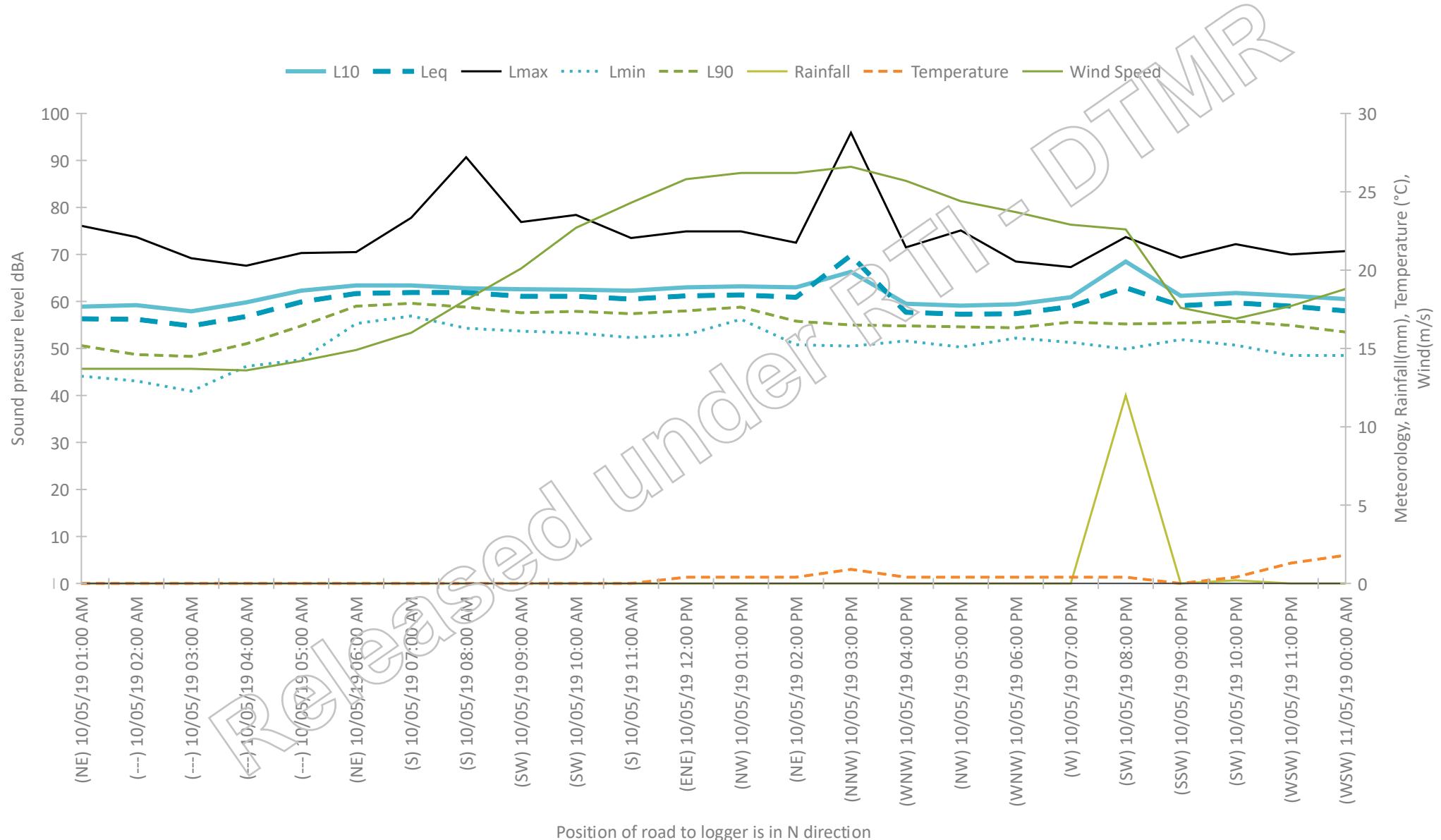
## Project 620.11007.00500 Version 1.0 John Fisher College BRACKEN RIDGE 9/05/2019



Address	John Fisher College	AADT	74217	<b>LA10 (1 hour)</b>	<b>66.3</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	61.2	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	60.0	dBA
State Road	Gateway Motorway	Distance	43 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	62.3	dBA
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	52.3	dBA
Instrument serial no	8780ed	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.2	dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	63.8	dBA
				based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Fri 10/05/19	1:00	56.3	76.1	63.9	58.9	54.3	50.6	44.1	0.0	13.7	NE	0.0
Fri 10/05/19	2:00	56.2	73.7	64.0	59.2	54.2	48.7	43.1	0.0	13.7	---	0.0
Fri 10/05/19	3:00	54.8	69.2	62.1	57.9	52.9	48.3	40.9	0.0	13.7	---	0.0
Fri 10/05/19	4:00	56.8	67.6	63.5	59.8	55.0	51.0	46.2	0.0	13.6	---	0.0
Fri 10/05/19	5:00	59.9	70.3	65.6	62.3	59.1	54.8	47.6	0.0	14.2	---	0.0
Fri 10/05/19	6:00	61.7	70.5	65.8	63.4	61.2	59.0	55.3	0.0	14.9	NE	0.0
Fri 10/05/19	7:00	61.9	77.8	65.9	63.4	61.3	59.6	56.9	0.0	16.0	S	0.0
Fri 10/05/19	8:00	61.9	90.7	65.5	62.8	60.7	58.8	54.3	0.0	18.1	S	0.0
Fri 10/05/19	9:00	61.1	76.9	67.4	62.6	59.8	57.6	53.7	0.0	20.1	SW	0.0
Fri 10/05/19	10:00	61.1	78.4	65.7	62.5	60.2	57.9	53.3	0.0	22.7	SW	0.0
Fri 10/05/19	11:00	60.5	73.5	65.1	62.3	59.9	57.4	52.3	0.0	24.3	S	0.0
Fri 10/05/19	12:00	61.2	74.9	66.8	63.0	60.4	58.0	52.9	0.0	25.8	ENE	0.4
Fri 10/05/19	13:00	61.4	74.9	65.9	63.2	60.8	58.8	56.2	0.0	26.2	NW	0.4
Fri 10/05/19	14:00	60.9	72.5	65.9	63.0	60.3	55.8	50.8	0.0	26.2	NE	0.4
Fri 10/05/19	15:00	69.8	95.9	82.0	66.3	57.9	55.0	50.5	0.0	26.6	NNW	0.9
Fri 10/05/19	16:00	57.7	71.5	62.8	59.5	57.0	54.8	51.6	0.0	25.7	WNW	0.4
Fri 10/05/19	17:00	57.3	75.1	61.7	59.1	56.7	54.6	50.3	0.0	24.4	NW	0.4
Fri 10/05/19	18:00	57.4	68.5	62.3	59.4	56.7	54.4	52.2	0.0	23.7	WNW	0.4
Fri 10/05/19	19:00	58.9	67.3	63.7	60.9	58.2	55.6	51.3	0.0	22.9	W	0.4
Fri 10/05/19	20:00	62.9	73.7	70.9	68.5	58.4	55.2	49.9	12.0	22.6	SW	0.4
Fri 10/05/19	21:00	59.1	69.3	64.4	61.2	58.3	55.4	51.9	0.0	17.6	SSW	0.0
Fri 10/05/19	22:00	59.7	72.2	65.2	61.8	58.9	55.8	50.7	0.2	16.9	SW	0.4
Fri 10/05/19	23:00	59.0	70.0	64.1	61.2	58.3	54.9	48.5	0.0	17.7	WSW	1.3
Sat 11/05/19	0:00	58.0	70.7	64.0	60.5	56.9	53.5	48.5	0.0	18.8	WSW	1.8

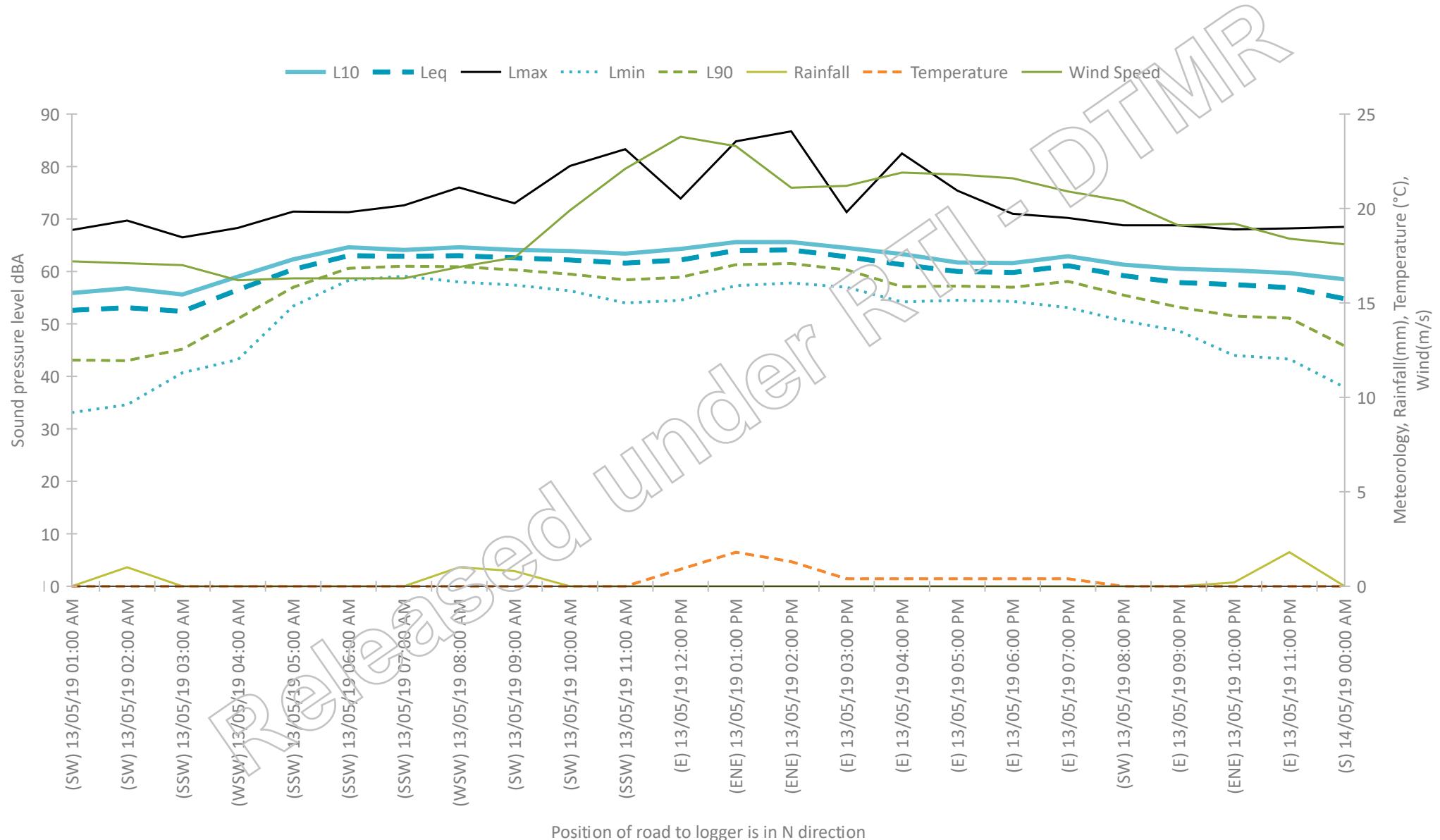
## Project 620.11007.00500 Version 1.0 John Fisher College BRACKEN RIDGE 10/05/2019



Address	John Fisher College	AADT	74217	<b>LA10 (1 hour)</b>	<b>65.6</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.8 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	62.0 dBA
State Road	Gateway Motorway	Distance	43 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.9 dBA
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	50.4 dBA
Instrument serial no	8780ed	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.4 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	64.3 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Mon 13/05/19	1:00	52.6	67.9	61.8	55.9	49.4	43.1	33.1	0.0	17.2	SW	0.0
Mon 13/05/19	2:00	53.1	69.7	61.9	56.8	49.6	43.0	34.6	1.0	17.1	SW	0.0
Mon 13/05/19	3:00	52.4	66.5	61.1	55.6	49.8	45.2	40.7	0.0	17.0	SSW	0.0
Mon 13/05/19	4:00	56.5	68.3	63.2	59.0	55.3	51.0	43.2	0.0	16.2	WSW	0.0
Mon 13/05/19	5:00	60.4	71.4	65.9	62.3	59.6	57.0	53.4	0.0	16.3	SSW	0.0
Mon 13/05/19	6:00	63.0	71.3	66.7	64.6	62.5	60.6	58.3	0.0	16.3	SSW	0.0
Mon 13/05/19	7:00	62.9	72.6	66.6	64.1	62.4	61.0	59.1	0.0	16.3	SSW	0.0
Mon 13/05/19	8:00	63.0	76.0	66.8	64.6	62.6	60.9	58.0	1.0	16.9	WSW	0.0
Mon 13/05/19	9:00	62.6	73.0	66.7	64.1	62.1	60.3	57.4	0.8	17.4	SW	0.0
Mon 13/05/19	10:00	62.2	80.1	66.4	63.9	61.6	59.5	56.3	0.0	19.9	SW	0.0
Mon 13/05/19	11:00	61.6	83.3	66.7	63.4	60.7	58.4	54.0	0.0	22.1	SSW	0.0
Mon 13/05/19	12:00	62.2	73.9	66.7	64.3	61.6	58.9	54.5	0.0	23.8	E	0.9
Mon 13/05/19	13:00	64.0	84.8	68.8	65.6	63.3	61.3	57.3	0.0	23.3	ENE	1.8
Mon 13/05/19	14:00	64.1	86.7	68.1	65.6	63.5	61.5	57.8	0.0	21.1	ENE	1.3
Mon 13/05/19	15:00	62.8	71.3	66.4	64.5	62.4	60.3	57.0	0.0	21.2	E	0.4
Mon 13/05/19	16:00	61.3	82.5	65.4	63.3	60.8	57.1	54.2	0.0	21.9	E	0.4
Mon 13/05/19	17:00	60.0	75.4	64.4	61.7	59.2	57.2	54.5	0.0	21.8	E	0.4
Mon 13/05/19	18:00	59.8	71.0	63.8	61.6	59.3	57.0	54.3	0.0	21.6	E	0.4
Mon 13/05/19	19:00	61.1	70.2	65.4	62.9	60.6	58.1	53.1	0.0	20.9	E	0.4
Mon 13/05/19	20:00	59.2	68.8	65.0	61.3	58.2	55.5	50.6	0.0	20.4	SW	0.0
Mon 13/05/19	21:00	57.9	68.8	64.3	60.5	56.8	53.2	48.7	0.0	19.1	E	0.0
Mon 13/05/19	22:00	57.5	68.0	63.9	60.2	56.3	51.5	44.0	0.2	19.2	ENE	0.0
Mon 13/05/19	23:00	56.9	68.2	63.9	59.7	55.5	51.1	43.3	1.8	18.4	E	0.0
Tue 14/05/19	0:00	54.8	68.5	62.6	58.5	52.5	45.8	37.9	0.0	18.1	S	0.0

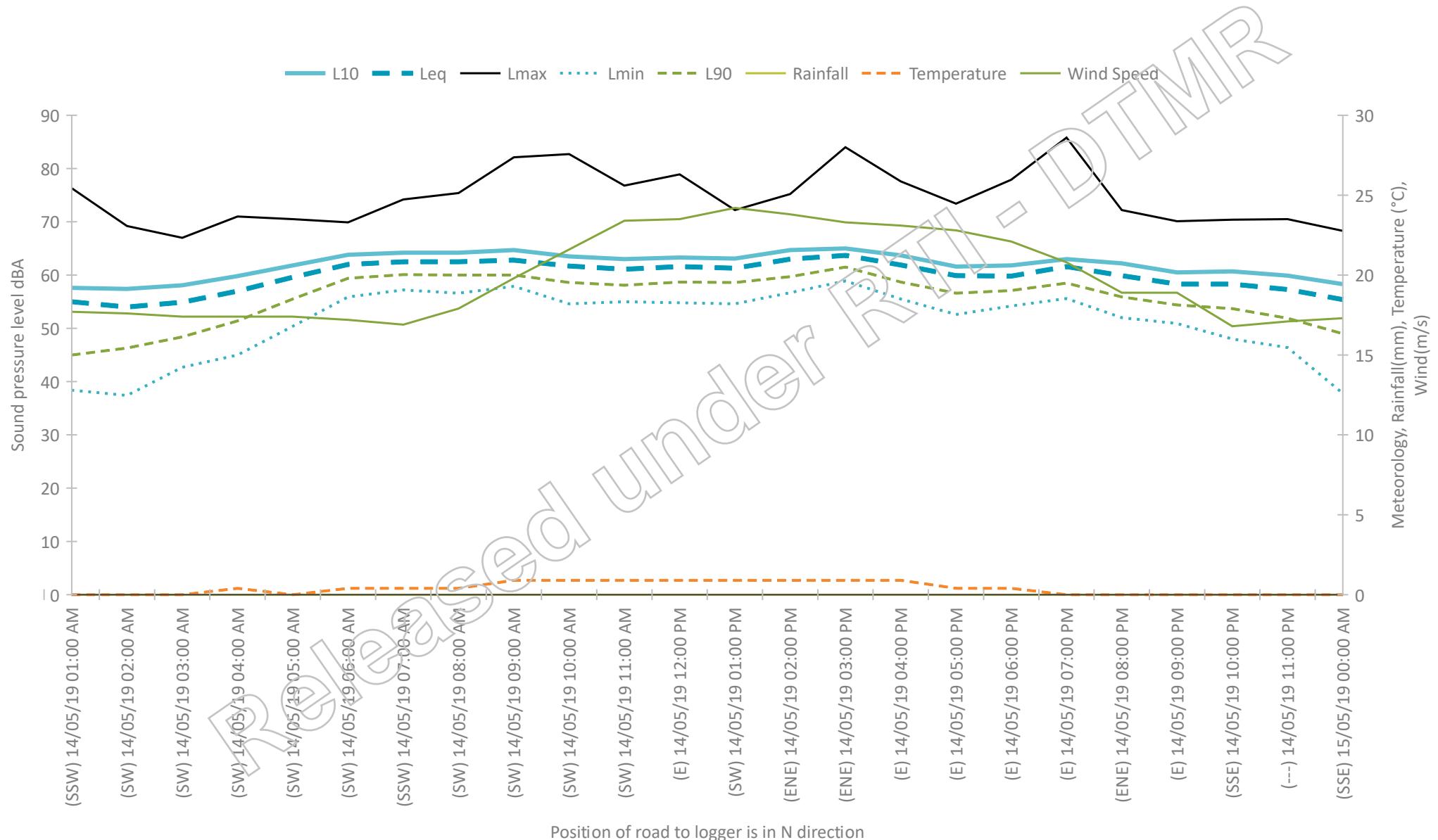
## Project 620.11007.00500 Version 1.0 John Fisher College BRACKEN RIDGE 13/05/2019



Address	John Fisher College	AADT	74217	<b>LA10 (1 hour)</b>	<b>65.0</b>	dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.6	dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	62.2	dBA
State Road	Gateway Motorway	Distance	43 m	LAeq (1 hour) Day	65.0	dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.6	dBA
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	50.4	dBA
Instrument serial no	8780ed	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.7	dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	64.1	dBA
				based on a growth rate of 3.5 %		

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Tue 14/05/19	1:00	55.0	76.3	65.3	57.6	51.0	45.0	38.4	0.0	17.7	SSW	0.0
Tue 14/05/19	2:00	54.0	69.2	62.6	57.4	51.2	46.3	37.4	0.0	17.6	SW	0.0
Tue 14/05/19	3:00	54.9	67.0	63.1	58.1	52.5	48.4	42.7	0.0	17.4	SW	0.0
Tue 14/05/19	4:00	57.0	71.0	64.4	59.8	55.2	51.4	45.0	0.0	17.4	SW	0.4
Tue 14/05/19	5:00	59.6	70.5	65.2	61.8	58.8	55.5	50.4	0.0	17.4	SW	0.0
Tue 14/05/19	6:00	62.0	69.9	66.2	63.8	61.4	59.4	55.9	0.0	17.2	SW	0.4
Tue 14/05/19	7:00	62.5	74.2	67.0	64.2	61.9	60.1	57.2	0.0	16.9	SSW	0.4
Tue 14/05/19	8:00	62.5	75.4	67.0	64.2	61.9	60.0	56.6	0.0	17.9	SW	0.4
Tue 14/05/19	9:00	62.8	82.1	68.1	64.7	62.0	60.0	57.9	0.0	19.8	SW	0.9
Tue 14/05/19	10:00	61.7	82.7	66.9	63.5	60.9	58.6	54.6	0.0	21.6	SW	0.9
Tue 14/05/19	11:00	61.1	76.8	65.8	63.0	60.3	58.1	55.0	0.0	23.4	SW	0.9
Tue 14/05/19	12:00	61.6	78.9	66.5	63.3	60.9	58.7	54.8	0.0	23.5	E	0.9
Tue 14/05/19	13:00	61.3	72.2	65.6	63.1	60.8	58.6	54.6	0.0	24.2	SW	0.9
Tue 14/05/19	14:00	63.0	75.2	67.1	64.7	62.4	59.7	56.7	0.0	23.8	ENE	0.9
Tue 14/05/19	15:00	63.7	84.0	68.0	65.0	63.2	61.5	58.9	0.0	23.3	ENE	0.9
Tue 14/05/19	16:00	61.9	77.6	66.0	63.7	61.4	58.7	55.5	0.0	23.1	E	0.9
Tue 14/05/19	17:00	59.9	73.4	65.8	61.6	59.1	56.6	52.6	0.0	22.8	E	0.4
Tue 14/05/19	18:00	59.8	77.9	63.8	61.8	59.1	57.1	54.2	0.0	22.1	E	0.4
Tue 14/05/19	19:00	61.6	85.8	66.2	63.0	60.8	58.5	55.6	0.0	20.8	E	0.0
Tue 14/05/19	20:00	59.9	72.2	66.1	62.2	58.8	55.9	52.0	0.0	18.9	ENE	0.0
Tue 14/05/19	21:00	58.3	70.1	64.5	60.5	57.2	54.4	50.9	0.0	18.9	E	0.0
Tue 14/05/19	22:00	58.3	70.4	64.9	60.7	57.1	53.7	48.0	0.0	16.8	SSE	0.0
Tue 14/05/19	23:00	57.3	70.5	64.5	59.9	55.8	51.9	46.4	0.0	17.1	---	0.0
Wed 15/05/19	0:00	55.4	68.3	63.6	58.3	53.4	49.0	37.8	0.0	17.3	SSE	0.0

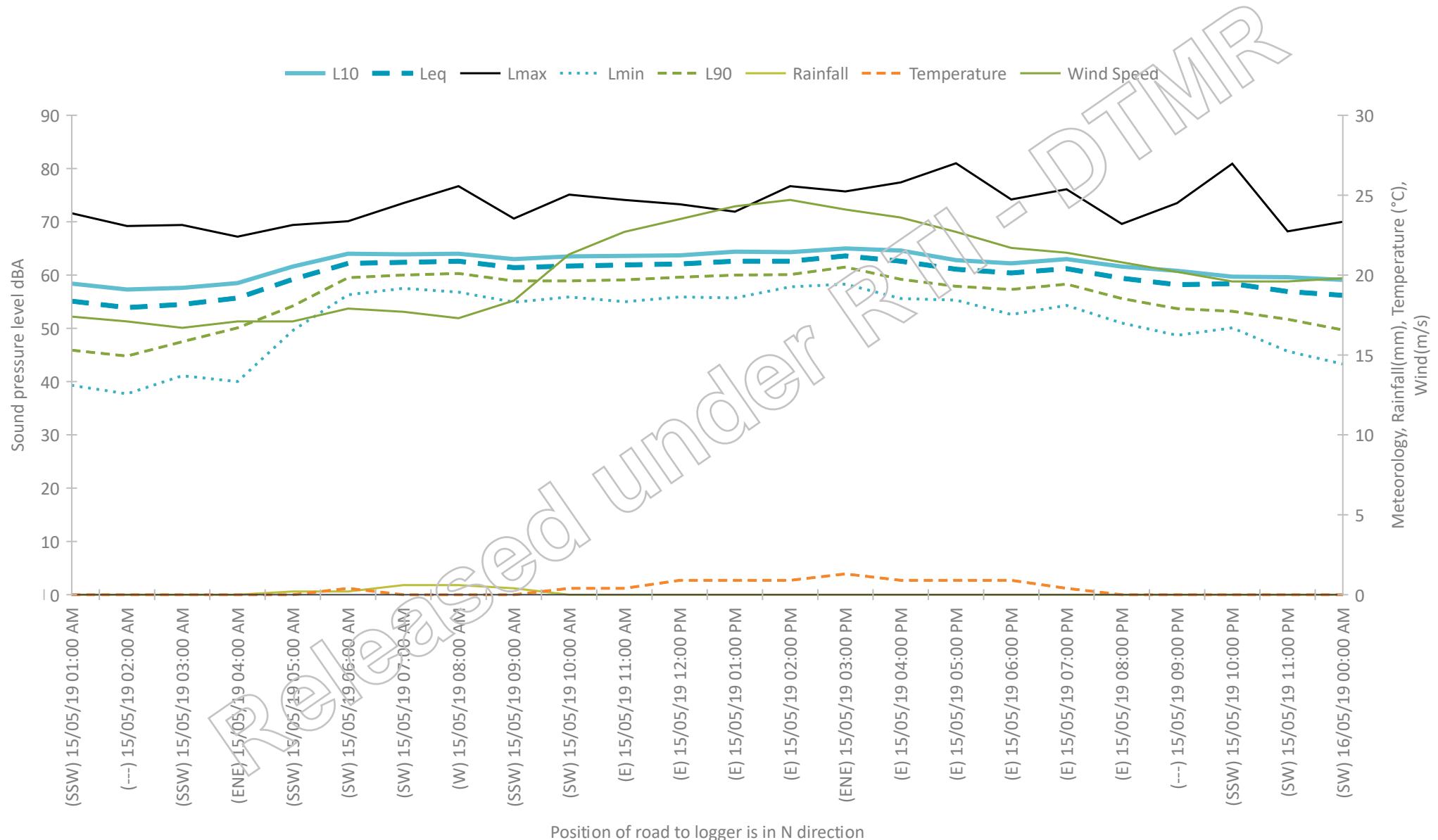
## Project 620.11007.00500 Version 1.0 John Fisher College BRACKEN RIDGE 14/05/2019



Address	John Fisher College	AADT	74217	<b>LA10 (1 hour)</b>	<b>65.0</b> dBA
Contact name	N/R	AADT year	2019	LAeq (24 hour)	60.7 dBA
Region	Metropolitan	%CV	17.82	LAeq (1 hour) Night	61.8 dBA
State Road	Gateway Motorway	Distance	43 m	LAeq (1 hour) Day	65.0 dBA
State Road ID	U13C	Speed limit	100 km/hr	LA10 (12 hour)	63.8 dBA
Instrument type	Ngara	Microphone height	1.8 m	LA90 (8 hour)	50.6 dBA
Instrument serial no	8780ed	Pavement surface	Stone Mastic Asphalt	LA90 (18 hour)	55.7 dBA
Time scale	60 mins	Operator	N/R	Predicted 10 year horizon LA10 (18 hour)	64.2 dBA
				based on a growth rate of 3.5 %	

Date	Time	Leq dBA	Lmax dBA	L1 dBA	L10 dBA	L50 dBA	L90 dBA	Lmin dBA	Rainfall	Temp	Wind dir	Wind speed
Wed 15/05/19	1:00	55.1	71.6	63.4	58.4	52.3	45.9	39.3	0.0	17.4	SSW	0.0
Wed 15/05/19	2:00	53.9	69.2	62.7	57.3	51.0	44.8	37.7	0.0	17.1	---	0.0
Wed 15/05/19	3:00	54.5	69.4	63.0	57.6	51.8	47.5	41.1	0.0	16.7	SSW	0.0
Wed 15/05/19	4:00	55.7	67.2	63.1	58.5	53.9	50.1	40.0	0.0	17.1	ENE	0.0
Wed 15/05/19	5:00	59.2	69.4	64.9	61.6	58.4	54.2	49.6	0.2	17.1	SSW	0.0
Wed 15/05/19	6:00	62.2	70.1	66.6	64.0	61.6	59.5	56.3	0.2	17.9	SW	0.4
Wed 15/05/19	7:00	62.4	73.5	68.1	63.9	61.8	60.0	57.5	0.6	17.7	SW	0.0
Wed 15/05/19	8:00	62.6	76.7	66.9	64.0	62.0	60.3	56.8	0.6	17.3	W	0.0
Wed 15/05/19	9:00	61.4	70.6	65.4	63.0	60.9	58.9	54.9	0.4	18.4	SSW	0.0
Wed 15/05/19	10:00	61.7	75.1	66.2	63.5	61.0	58.9	55.9	0.0	21.3	SW	0.4
Wed 15/05/19	11:00	61.9	74.1	66.3	63.6	61.3	59.1	55.0	0.0	22.7	E	0.4
Wed 15/05/19	12:00	62.1	73.3	65.9	63.7	61.5	59.6	55.9	0.0	23.5	E	0.9
Wed 15/05/19	13:00	62.6	71.9	66.8	64.4	62.0	60.0	55.7	0.0	24.3	E	0.9
Wed 15/05/19	14:00	62.6	76.7	66.4	64.3	62.0	60.1	57.8	0.0	24.7	E	0.9
Wed 15/05/19	15:00	63.6	75.7	67.1	65.0	63.2	61.5	58.3	0.0	24.1	ENE	1.3
Wed 15/05/19	16:00	62.6	77.4	66.3	64.6	62.0	59.2	55.6	0.0	23.6	E	0.9
Wed 15/05/19	17:00	61.1	81.0	66.0	62.8	60.3	57.9	55.3	0.0	22.7	E	0.9
Wed 15/05/19	18:00	60.4	74.2	65.4	62.2	59.7	57.3	52.6	0.0	21.7	E	0.9
Wed 15/05/19	19:00	61.2	76.1	65.4	63.0	60.7	58.3	54.3	0.0	21.4	E	0.4
Wed 15/05/19	20:00	59.4	69.6	65.0	61.6	58.5	55.6	51.0	0.0	20.8	E	0.0
Wed 15/05/19	21:00	58.2	73.5	64.7	60.8	57.0	53.7	48.7	0.0	20.2	---	0.0
Wed 15/05/19	22:00	58.4	80.9	66.4	59.7	56.0	53.2	50.1	0.0	19.6	SSW	0.0
Wed 15/05/19	23:00	56.9	68.2	63.8	59.6	55.5	51.7	45.7	0.0	19.6	SW	0.0
Thu 16/05/19	0:00	56.2	70.0	64.2	59.1	54.1	49.7	43.3	0.0	19.8	SW	0.0

## Project 620.11007.00500 Version 1.0 John Fisher College BRACKEN RIDGE 15/05/2019

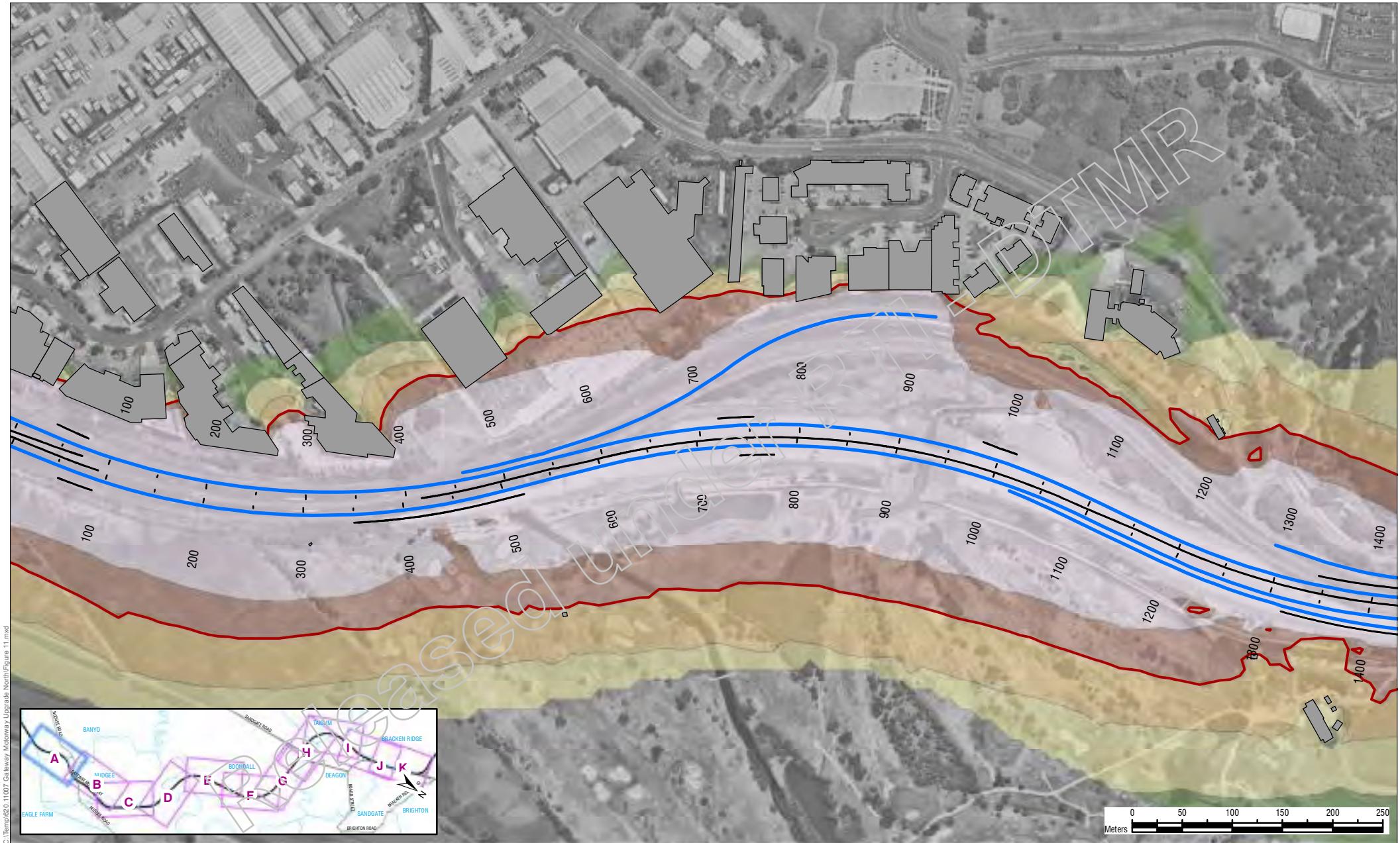


N/R

## **APPENDIX C**

Predicted Year 2028 GUN Road Traffic Noise Levels with Constructed Noise Barriers

Released under RTI - DTMPC



**SLR**  
Level 2, 15 ASTOR TERRACE  
SPRING HILL  
QUEENSLAND 4004  
AUSTRALIA  
T: 61 7 3858 4800  
F: 61 7 3858 4801  
[www.srlconsulting.com](http://www.srlconsulting.com)

Project No.: 620.11007.00200  
Date: 19-Oct-2016  
Drawn by: N/R  
Scale: 1:5,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

#### LEGEND

- | Predicted $L_{A10(1m)}$ Noise Level | Symbol      |
|-------------------------------------|-------------|
| 64 dBA or Below                     | Purple      |
| 65 to 66 dBA                        | Light Green |
| 67 to 68 dBA                        | Yellow      |
| 69 to 70 dBA                        | Orange      |
| Above 70 dBA                        | White       |

Notes: 1. Noise contours represent noise levels at 1.8m above ground level.  
2. Shaded buildings represent noise levels at the loudest facade, regardless of storey.

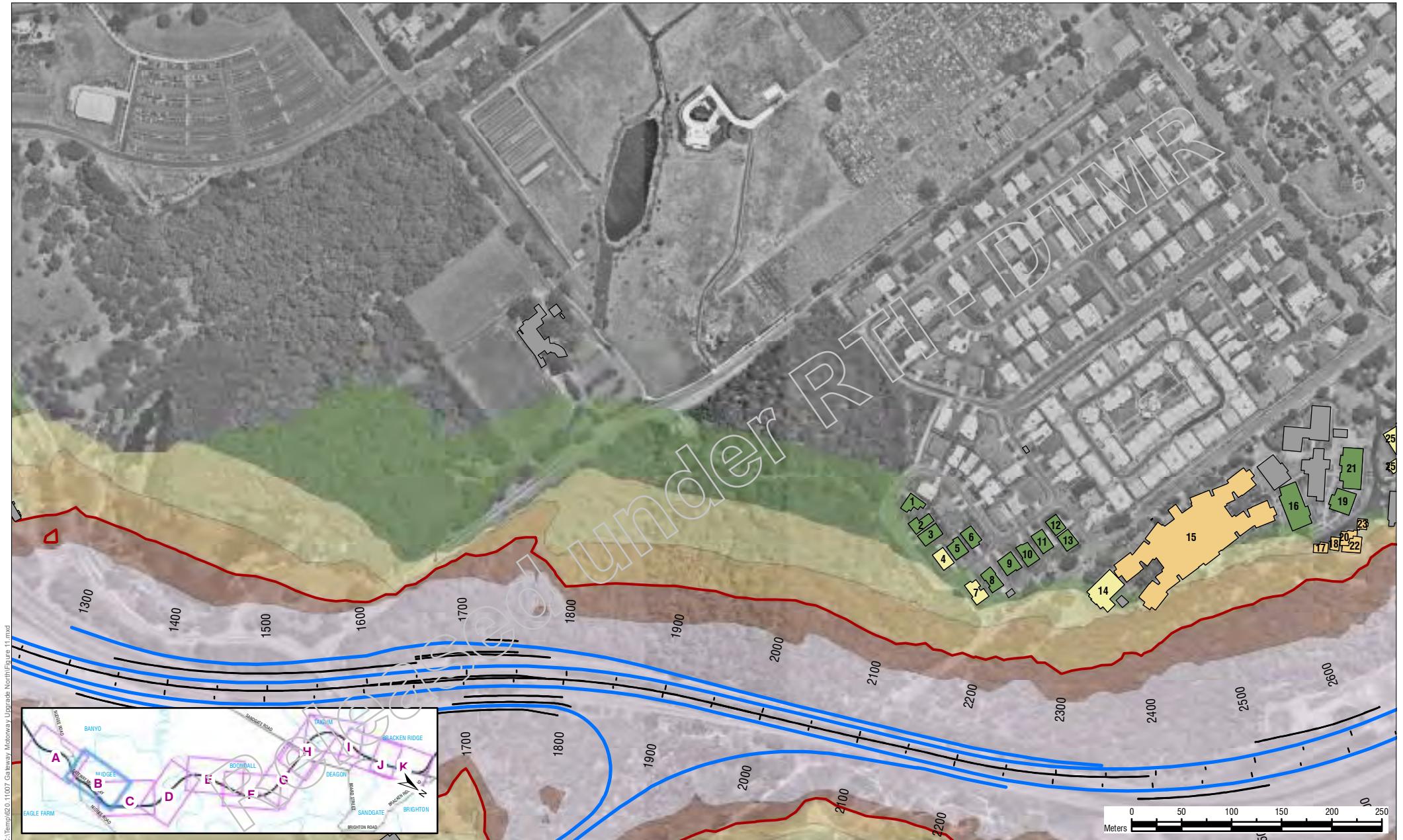
**JACOBS**  **SMEC**

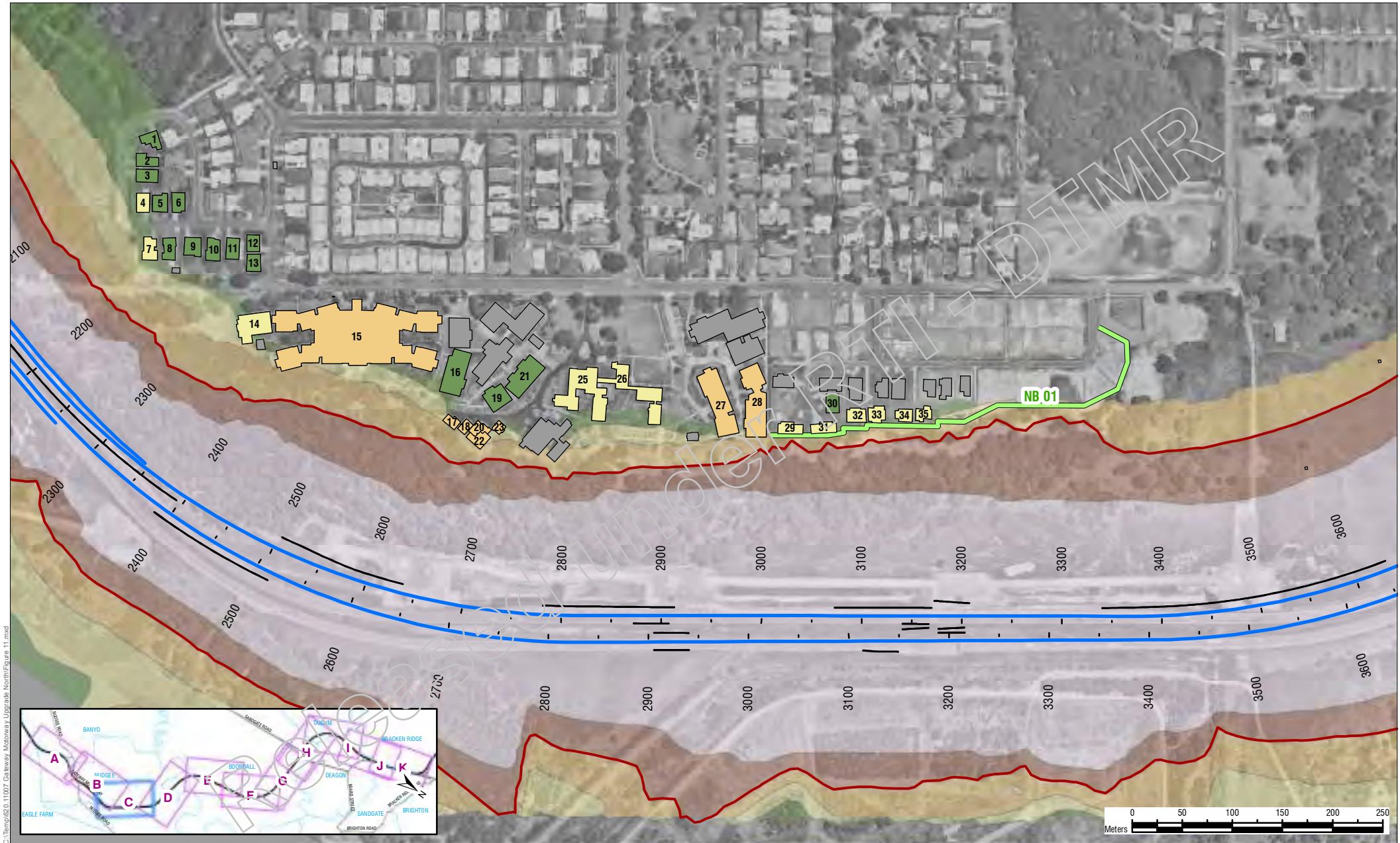
Jacobs SMEC Design Joint Venture



Jacobs SMEC Design Joint Venture  
**Gateway Upgrade North**  
**Predicted Residential (2028) Noise Levels**  
**(Facade Corrected), Proposed Mwy Alignment**  
**and Existing / Proposed Noise Barriers**  
**Nudgee Interchange South**  
FIGURE 11A - Scenario 4







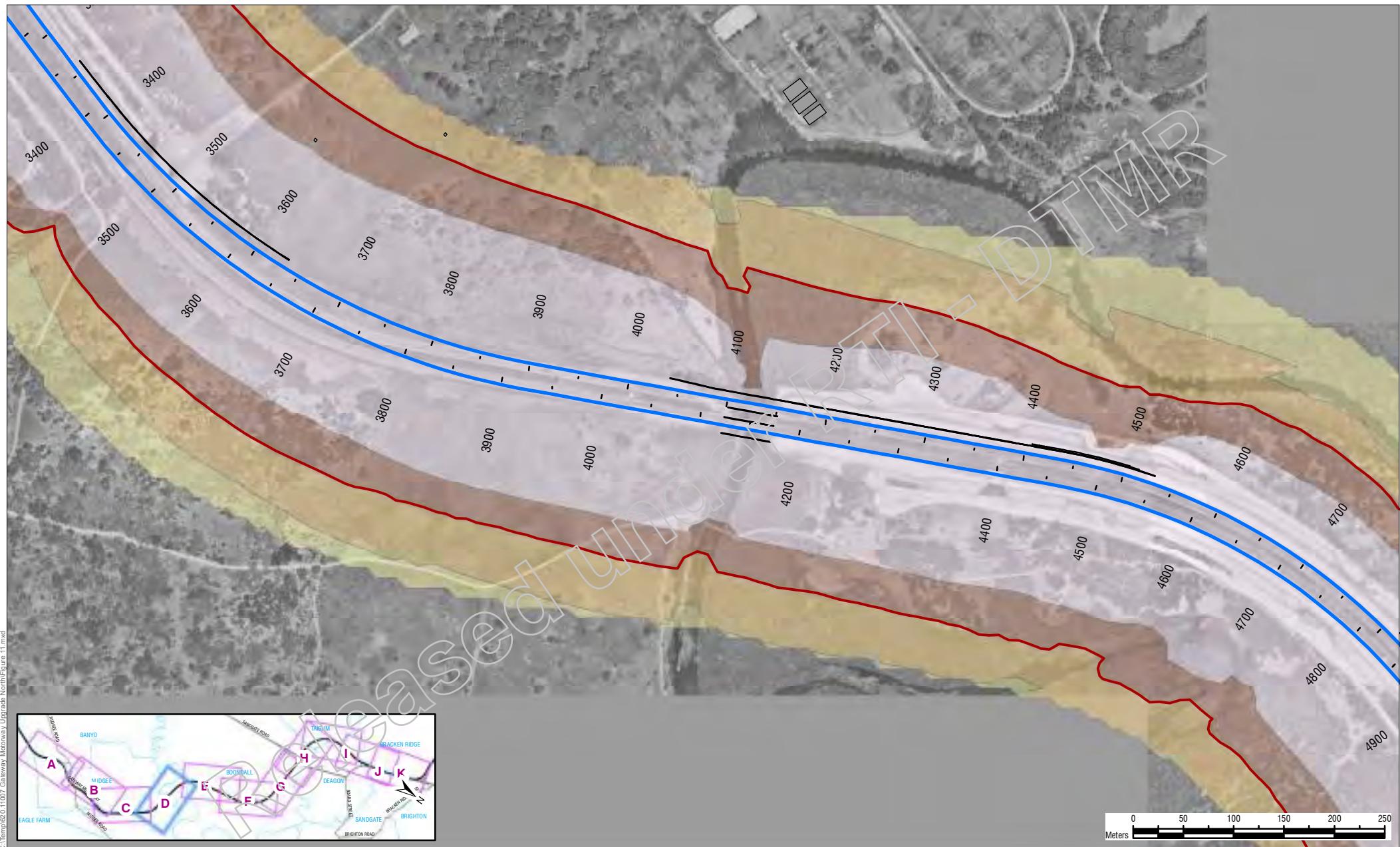
Project No.: 620.11007.00200  
Date: 19-Oct-2016  
Drawn by: N/R  
Scale: 1:5,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

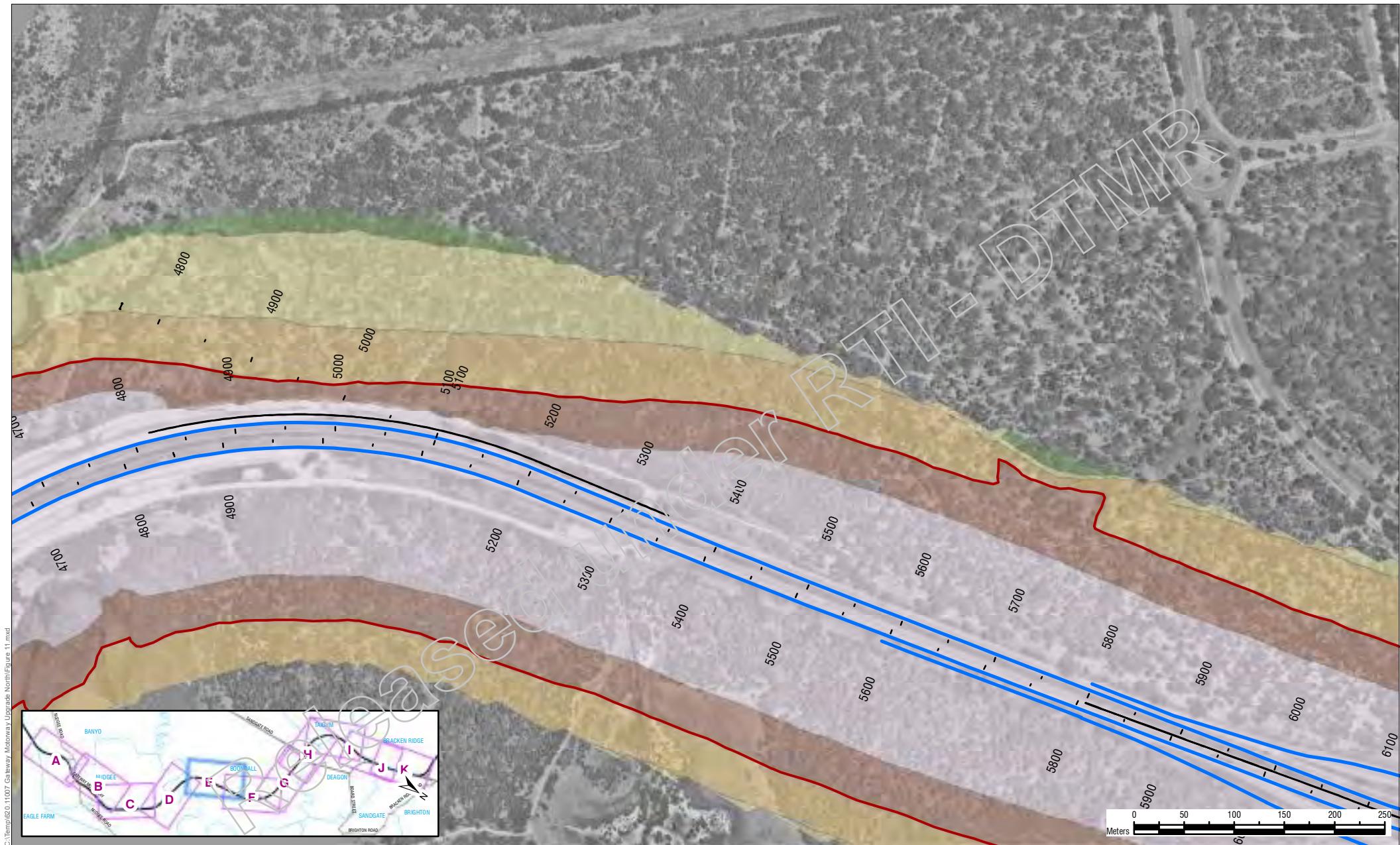
The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.

#### LEGEND

- Predicted  $L_{10}(1\text{m})$  Noise Level**
- |                 |  |
|-----------------|--|
| 64 dBA or Below | Building - Educational Community or Health       |
| 65 to 66 dBA    | Building - Not Sensitive / Outside of Study Area |
| 67 to 68 dBA    | Proposed Road Source Line                        |
| 69 to 70 dBA    | Proposed Crash Barrier                           |
| Above 70 dBA    | New Noise Barrier                                |
|                 | Existing Noise Barrier- To be replaced           |
|                 | Proposed Noise Barrier- Not Impacted             |







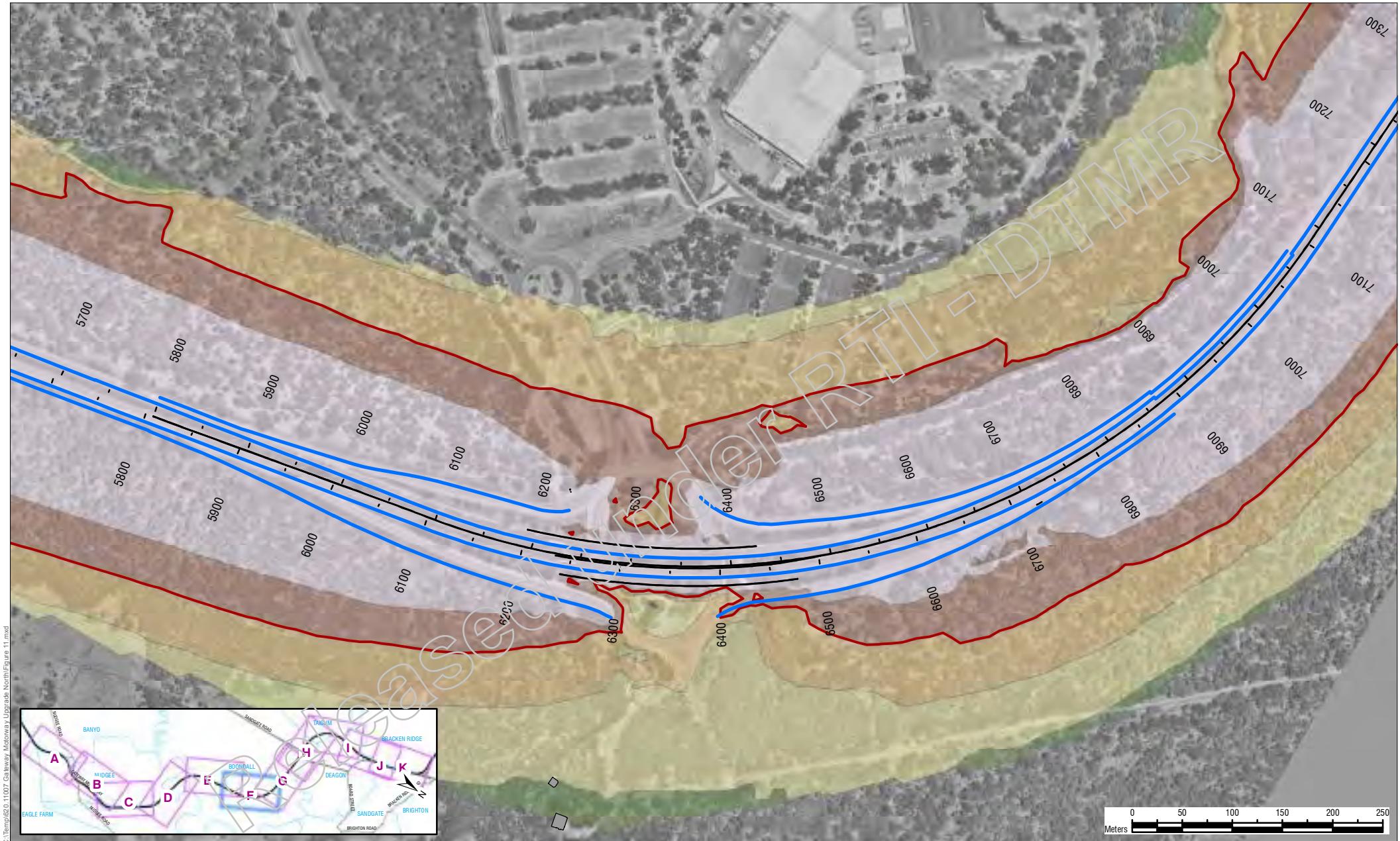
Project No.: 620.11007.00200  
Date: 19-Oct-2016  
Drawn by: N/R  
Scale: 1:5,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

#### LEGEND

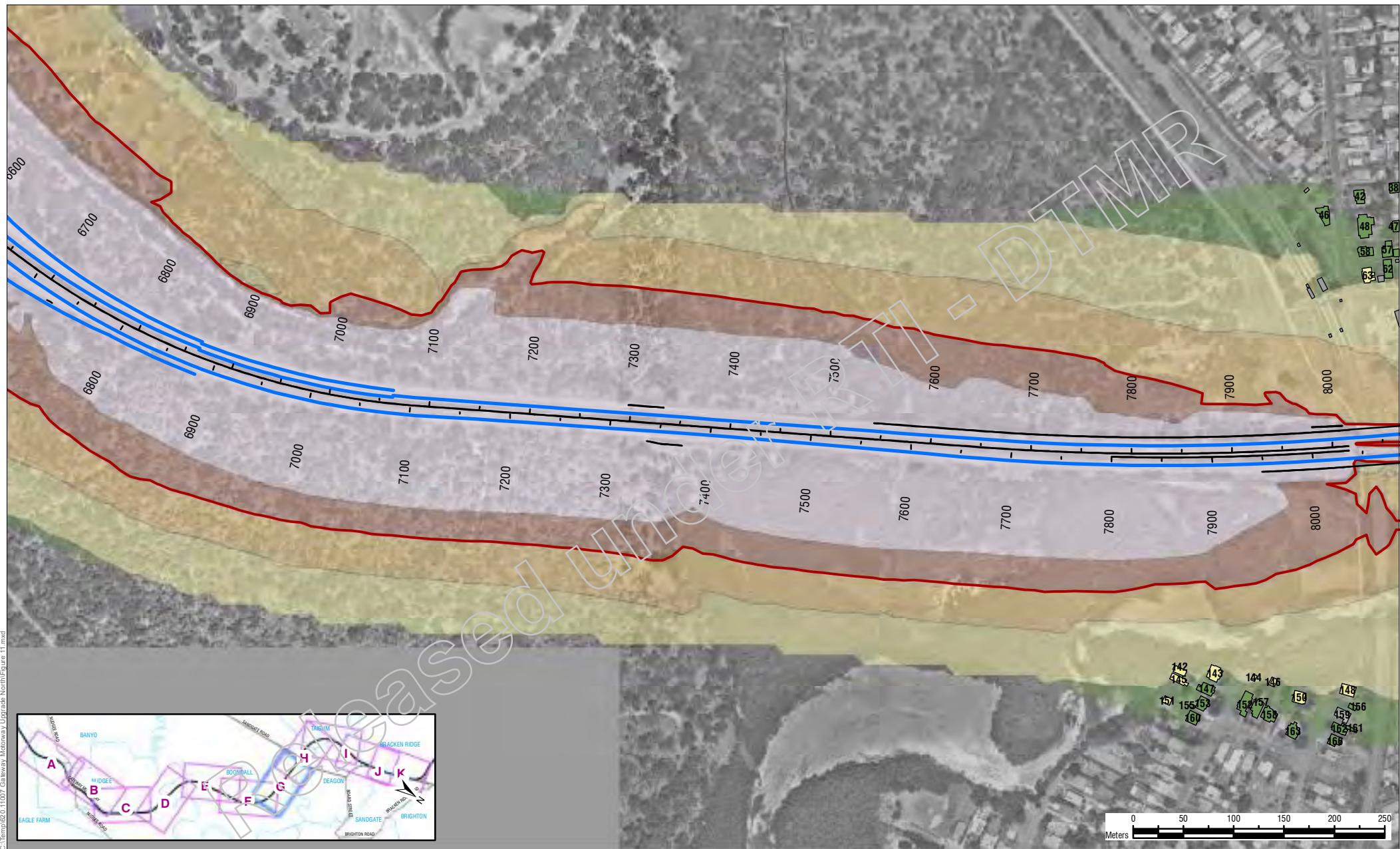
Predicted $L_{A10(1m)}$ Noise Level	<span style="color: purple;">■</span> Building - Educational Community or Health <span style="background-color: #648B4C; border-radius: 50%; width: 10px; height: 10px;"></span> <span style="color: grey;">■</span> Building - Not Sensitive / Outside of Study Area <span style="color: blue;">■</span> Proposed Road Source Line <span style="color: black;">—</span> Proposed Crash Barrier <span style="color: orange;">■</span> New Noise Barrier <span style="color: yellow;">■</span> Existing Noise Barrier- To be replaced <span style="color: green;">■</span> Existing Noise Barrier- Not Impacted
64 dBa or Below	
65 to 66 dBa	
67 to 68 dBa	
69 to 70 dBa	
Above 70 dBa	
68dB Noise Contour	

The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.





The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.



**SLR**  
Level 2, 15 ASTOR TERRACE  
SPRING HILL  
QUEENSLAND 4004  
AUSTRALIA  
T: 61 7 3858 4800  
F: 61 7 3858 4801  
[www.srlconsulting.com](http://www.srlconsulting.com)

Project No.: 620.11007.00200  
Date: 19-Oct-2016  
Drawn by: N/R  
Scale: 1:5,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

**LEGEND**  
Predicted  $L_{10}(1m)$  Noise Level

64 dBa or Below	Building - Educational Community or Health
65 to 66 dBa	Building - Not Sensitive / Outside of Study Area
67 to 68 dBa	Proposed Road Source Line
69 to 70 dBa	Proposed Crash Barrier
Above 70 dBa	New Noise Barrier
68dB Noise Contour	Existing Noise Barrier- To be replaced

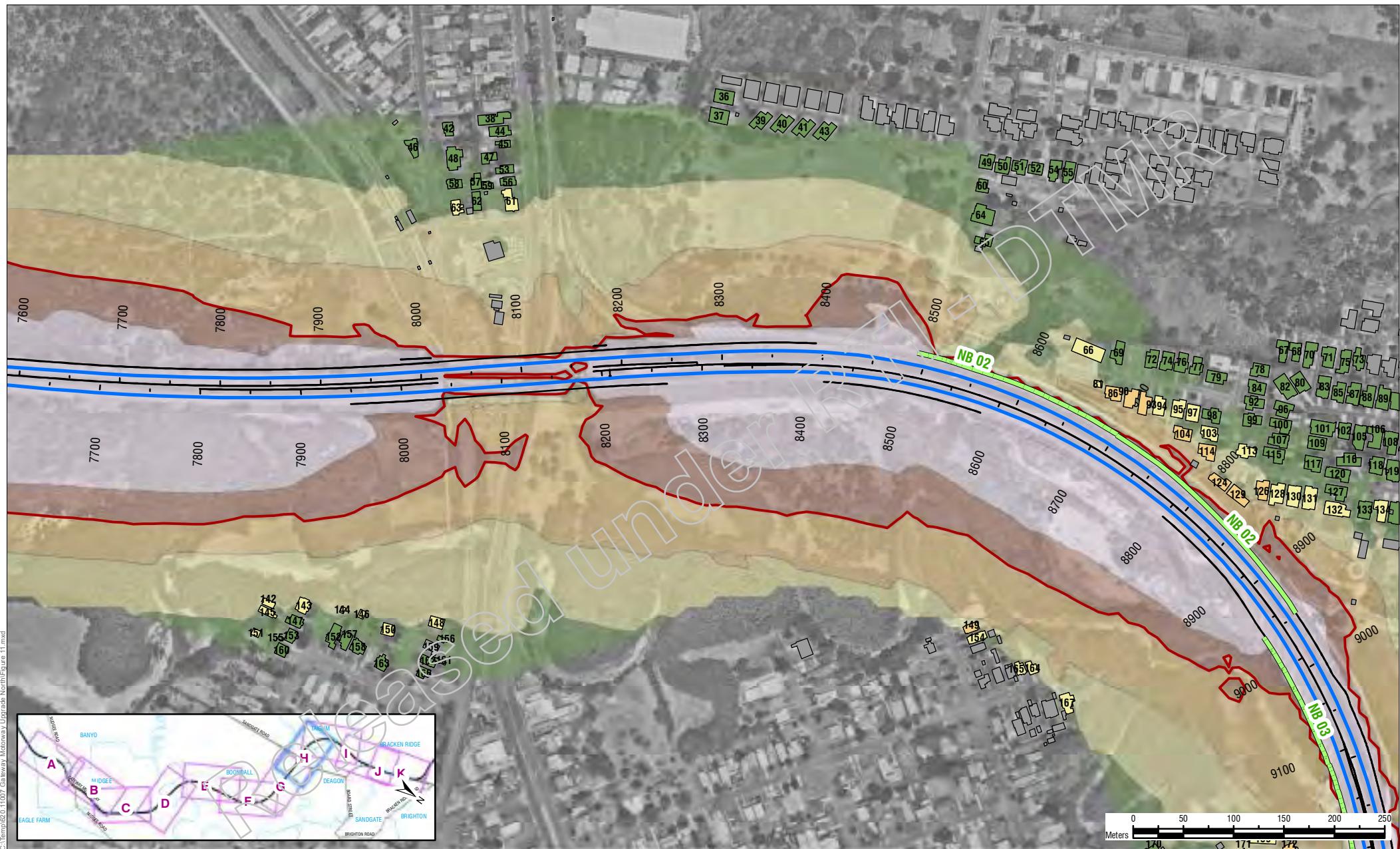
Notes: 1. Noise contours represent noise levels at 1.8m above ground level.  
Shaded buildings represent noise levels at the loudest facade, regardless of storey.

**JACOBS** **SMEC**  
Jacobs SMEC Design Joint Venture

Jacobs SMEC Design Joint Venture



Jacobs SMEC Design Joint Venture  
**Gateway Upgrade North**  
**Predicted Residential (2028) Noise Levels**  
**(Facade Corrected), Proposed Mwy Alignment**  
**and Existing / Proposed Noise Barriers**  
**Boondall Wetlands North**  
FIGURE 11G - Scenario 4



The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.

RTI-1267 Release.pdf - Page Number 214 of 244

Project No.: 620.11007.00200  
Date: 19-Oct-2016  
Drawn by: N/R  
Scale: 1:5,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

**LEGEND**

**Predicted  $L_{A10(1m)}$  Noise Level**

- 64 dBa or Below
- 65 to 66 dBa
- 67 to 68 dBa
- 69 to 70 dBa
- Above 70 dBa
- 68dB Noise Contour

**Building**

- Educational Community or Health
- Not Sensitive / Outside of Study Area

**Road Infrastructure**

- Proposed Road Source Line
- Proposed Crash Barrier
- New Noise Barrier
- Existing Noise Barrier- To be replaced
- Proposed Noise Barrier- Not Impacted

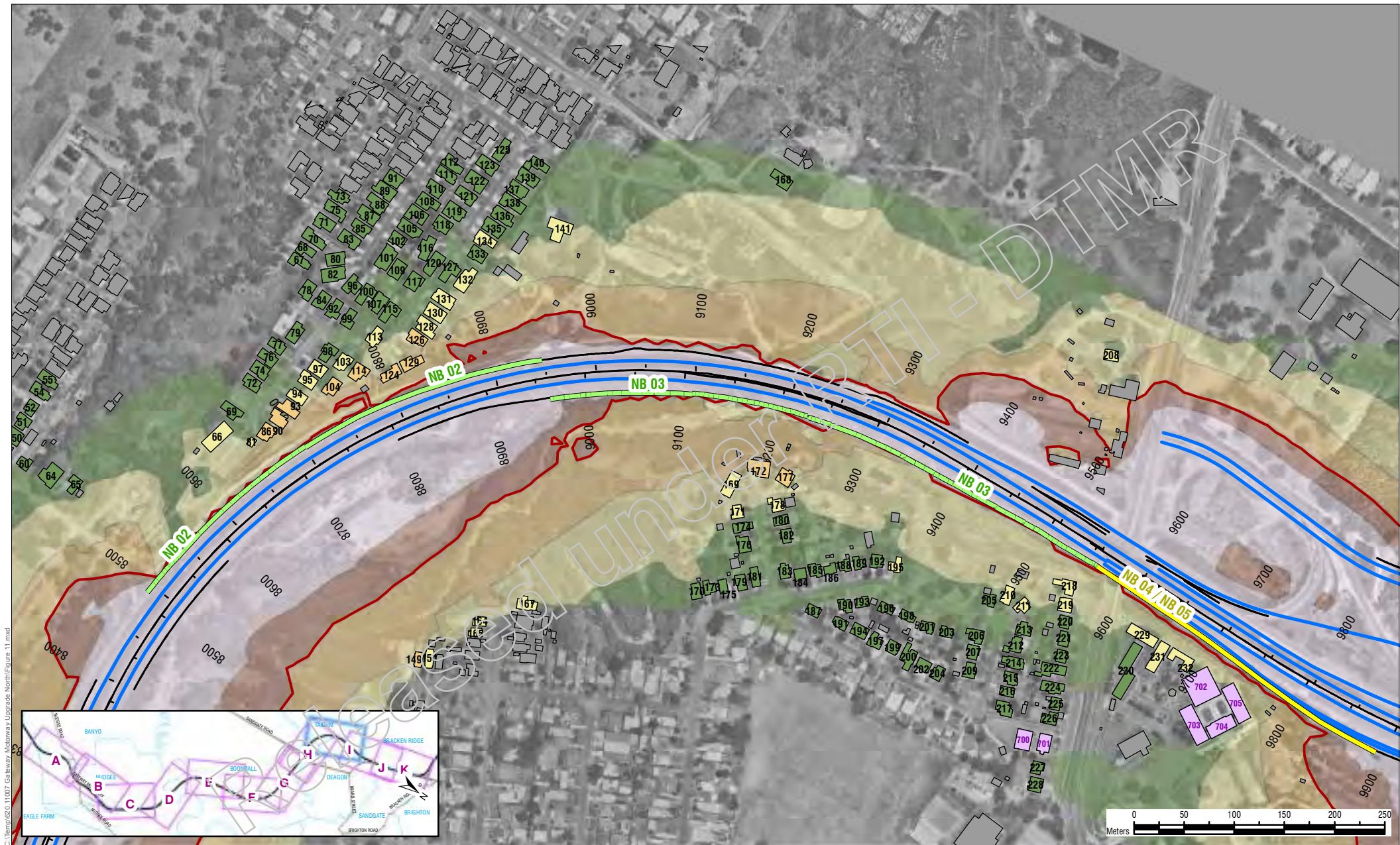


Jacobs SMEC Design Joint Venture



Jacobs SMEC Design Joint Venture  
**Gateway Upgrade North**  
**Predicted Residential (2028) Noise Levels**  
**(Facade Corrected), Proposed Mwy Alignment**  
**and Existing / Proposed Noise Barriers**  
**Sandgate Road**  
FIGURE 11H - Scenario 4





Project No.: 620.11007.00200  
Date: 19-Oct-2016  
Drawn by: N/R  
Scale: 1:5,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

#### LEGEND

Predicted $L_{A10}(1m)$ Noise Level	<ul style="list-style-type: none"> <li>64 dBA or Below</li> <li>65 to 66 dBA</li> <li>67 to 68 dBA</li> <li>69 to 70 dBA</li> <li>Above 70 dBA</li> <li>68dB Noise Contour</li> </ul>
Building - Educational Community or Health	
Building - Not Sensitive / Outside of Study Area	
Proposed Road Source Line	
Proposed Crash Barrier	
New Noise Barrier	
Existing Noise Barrier- To be replaced	
Proposed Noise Barrier- Not Impacted	

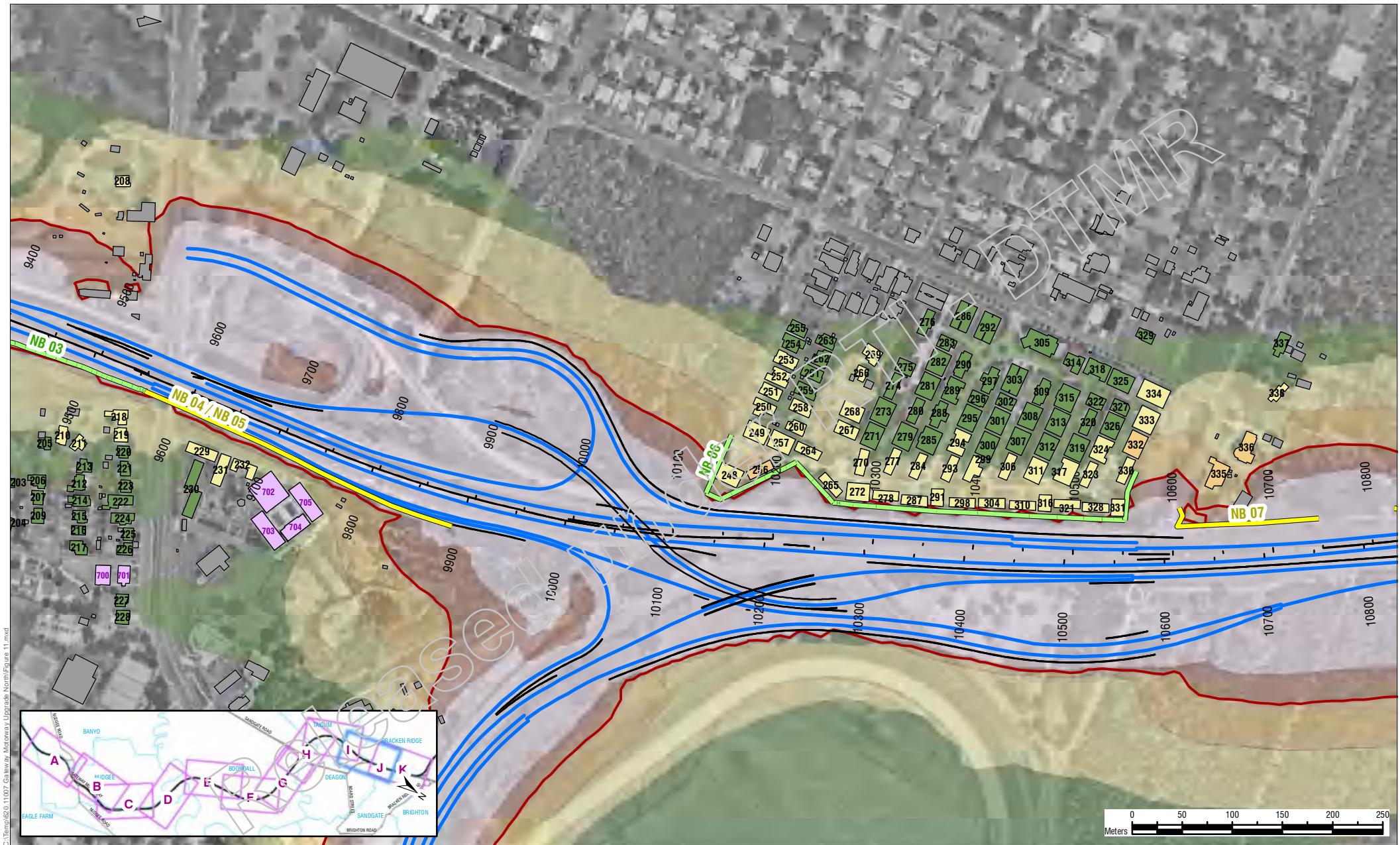
**JACOBS**   
Jacobs SMEC Design Joint Venture

Jacobs SMEC Design Joint Venture



Jacobs SMEC Design Joint Venture  
**Gateway Upgrade North**  
**Predicted Residential (2028) Noise Levels**  
**(Facade Corrected), Proposed Mwy Alignment**  
**and Existing / Proposed Noise Barriers**  
**Taigum / Deagon**  
FIGURE 11I - Scenario 4

Notes: 1. Noise contours represent noise levels at 1.8m above ground level.  
Shaded buildings represent noise levels at the loudest facade, regardless of storey.  
2. Existing noise barriers are not impacted.





**SLR**  
Level 2, 15 ASTOR TERRACE  
SPRING HILL  
QUEENSLAND 4004  
AUSTRALIA  
T: 61 7 3858 4800  
F: 61 7 3858 4801  
[www.srlconsulting.com](http://www.srlconsulting.com)

Project No.: 620.11007.00200  
Date: 19-Oct-2016  
Drawn by: N/R  
Scale: 1:5,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

**LEGEND**

- Predicted  $L_{10\text{dB}}$  Noise Level
  - 64 dBA or Below
  - 65 to 66 dBA
  - 67 to 68 dBA
  - 69 to 70 dBA
  - Above 70 dBA
  - 68dB Noise Contour
- Building - Educational Community or Health
- Building - Not Sensitive / Outside of Study Area
- Proposed Road Source Line
- Proposed Crash Barrier
- New Noise Barrier
- Existing Noise Barrier- To be replaced
- Proposed Noise Barrier- Not Impacted

Notes: 1. Noise contours represent noise levels at 1.8m above ground level.  
Shaded buildings represent noise levels at the loudest facade, regardless of storey.

**JACOBS** **SMEC**  
Jacobs SMEC Design Joint Venture  
Jacobs SMEC Design Joint Venture  
**Queensland Government**



Jacobs SMEC Design Joint Venture  
**Gateway Upgrade North**  
**Predicted Residential (2028) Noise Levels**  
**(Facade Corrected), Proposed Mwy Alignment**  
**and Existing / Proposed Noise Barriers**  
**Degaon Deviation**  
FIGURE 11K - Scenario 4



**SLR**  
Level 2, 15 ASTOR TERRACE  
SPRING HILL  
QUEENSLAND 4004  
AUSTRALIA  
T: 61 7 3858 4800  
F: 61 7 3858 4801  
[www.srlconsulting.com](http://www.srlconsulting.com)

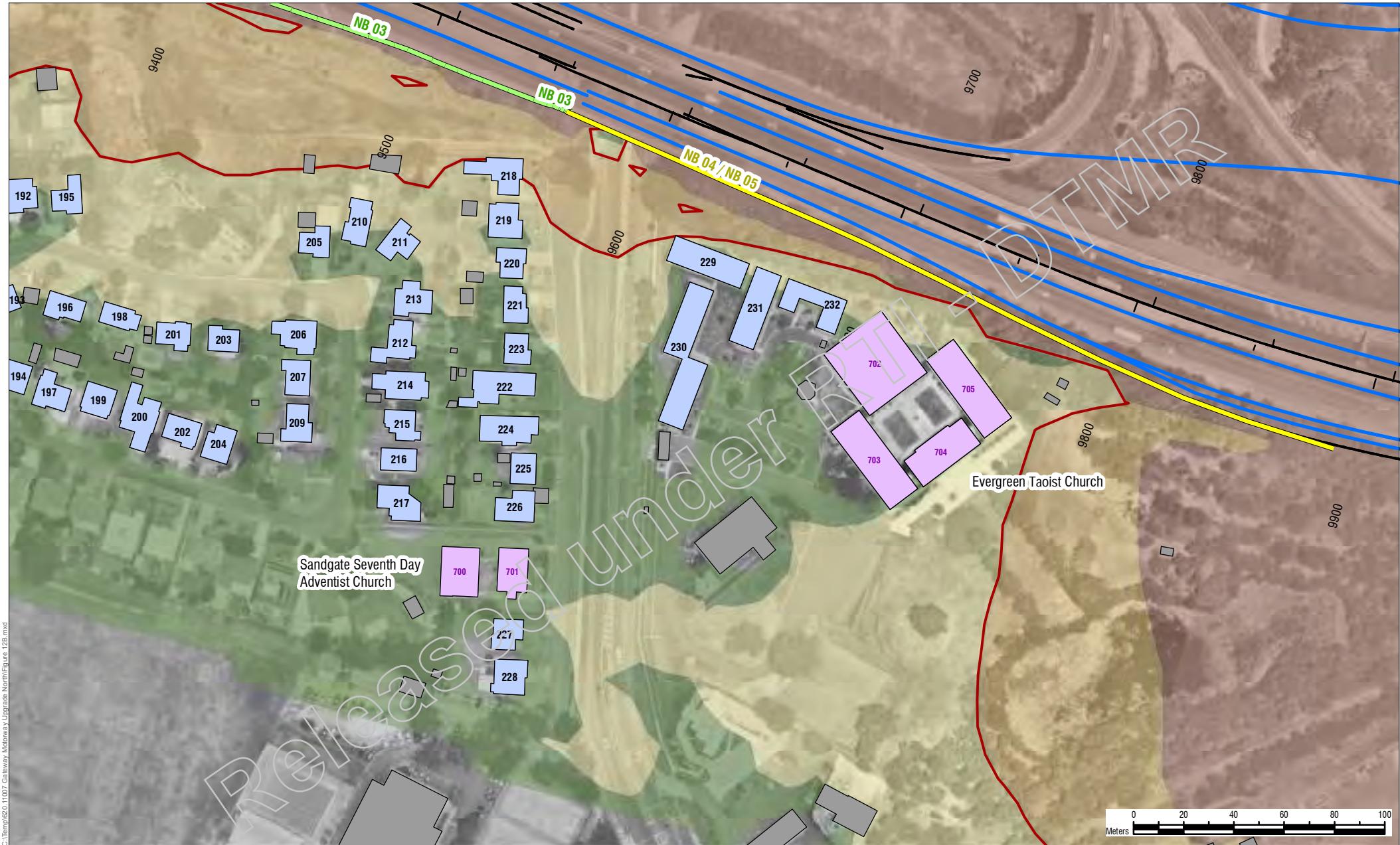
Project No.: 620.11007.00200  
Date: 15-Aug-2016  
Drawn by: N/R  
Scale: 1:2,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

#### LEGEND

Predicted $L_{A10}^{(1m)}$ Noise Level	Building - Residential
61 dBA or Below	Building - Educational Community or Health
62 to 63 dBA	Building - Not Sensitive / Outside of Study Area
64 to 65 dBA	Proposed Road Source Line
66 to 67 dBA	Proposed Crash Barrier
Above 67 dBA	New Noise Barrier
65dBA Noise Contour	Existing Noise Barrier To be replaced
Existing Noise Barrier- Not Impacted	Existing Noise Barrier

The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.





Project No.: 620.11007.00200  
Date: 17-Aug-2016  
Drawn by: N/R  
Scale: 1:2,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

#### LEGEND

- |  |  |
|--|--|
| Predicted L <sub>A10 (12h)</sub> Noise Level | <ul style="list-style-type: none"> <li>■ Building - Residential</li> <li>■ Building - Educational Community or Health</li> <li>■ Building - Not Sensitive / Outside of Study Area</li> </ul> |
| ■ 59 dB(A) or Below                          |  |
| ■ 60 to 61 dB(A)                             |  |
| ■ 62 to 63 dB(A)                             |  |
| ■ 64 to 65 dB(A)                             |  |
| ■ Above 65 dB(A)                             |  |
| ■ 63dB(A) Noise Contour                      |  |
| ■ Existing Noise Barrier- To be replaced     |  |
| ■ Existing Noise Barrier- Not Impacted       |  |

**JACOBS**   
Jacobs SMEC Design Joint Venture

Jacobs SMEC Design Joint Venture



Jacobs SMEC Design Joint Venture  
**Gateway Upgrade North**  
**Passive Recreational (Outdoor) Predicted 2028**  
**Free Field Noise Levels, Proposed Mwy Algnmnt**  
**Location of Existing & Proposed Noise Barriers**  
**Evergreen Taoist Church**  
FIGURE 12B - Scenario 4



**SLR**  
Level 2, 15 ASTOR TERRACE  
SPRING HILL  
QUEENSLAND 4004  
AUSTRALIA  
T: 61 7 3858 4800  
F: 61 7 3858 4801  
[www.srlconsulting.com](http://www.srlconsulting.com)

Project No.: 620.11007.00200  
Date: 15-Aug-2016  
Drawn by: N/R  
Scale: 1:2,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

#### LEGEND

- |  |                                    |  |
|--|------------------------------------|--|
| Predicted $L_{A10}^{(1m)}$ Noise Level | 61 dBA or Below                    | Building - Residential                           |
|  | 62 to 63 dBA                       | Building - Not Sensitive / Outside of Study Area |
|  | 64 to 65 dBA                       | Proposed Road Source Line                        |
|  | 66 to 67 dBA                       | Proposed Crash Barrier                           |
|  | Above 67 dBA                       | New Noise Barrier                                |
|  | 65dBA Noise Barrier - Not Impacted | Existing Noise Barrier- To be replaced           |

BTI1267 Release.pdf Page Number 220 of 241

**JACOBS**   
Jacobs SMEC Design Joint Venture

Jacobs SMEC Design Joint Venture

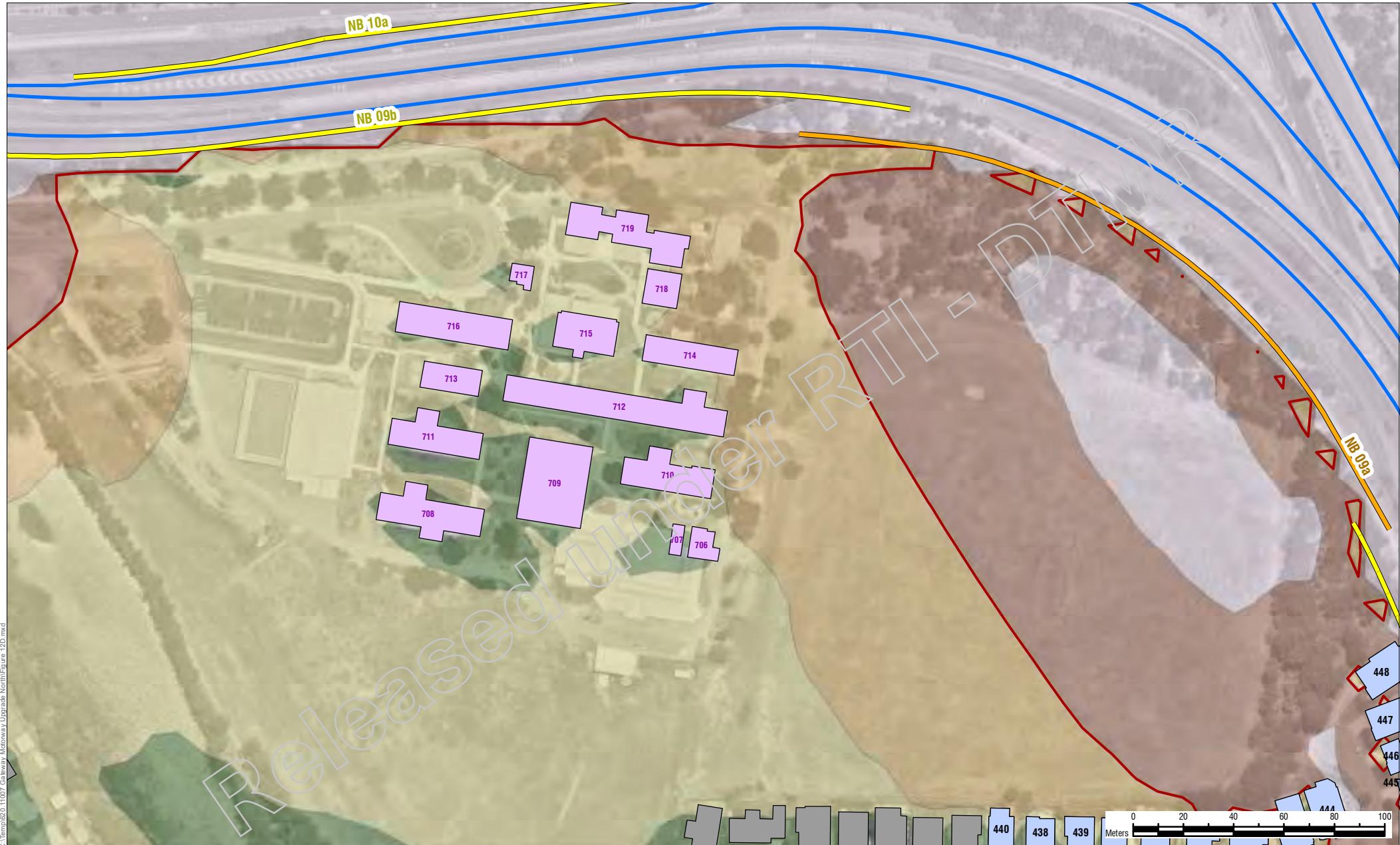


Jacobs SMEC Design Joint Venture  
Gateway Upgrade North  
Community (Buildings) Predicted 2028 Facade  
Corrected Noise Levels, Proposed Mwy Algnmnt  
Location of Existing & Proposed Noise Barriers  
St John Fisher College  
FIGURE 12C - Scenario 4

The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.

Notes: 1. Noise contours represent noise levels at 1.8m above ground level.  
Shaded buildings represent noise levels at the loudest facade, regardless of storey.  
2. Existing noise barrier not impacted.





Project No.: 620.11007.00200  
Date: 15-Aug-2016  
Drawn by: N/R  
Scale: 1:2,000  
Sheet Size: A4  
Projection: GDA 1994 MGA Zone 56

#### LEGEND

Predicted L <sub>A10 (12h)</sub> Noise Level	Building - Residential
58 to 59 dBA	
60 to 61 dBA	
62 to 63 dBA	
64 to 65 dBA	
Above 65 dBA	
63dB Noise Contour	
Existing Noise Barrier - To be replaced	
Existing Noise Barrier- Not Impacted	

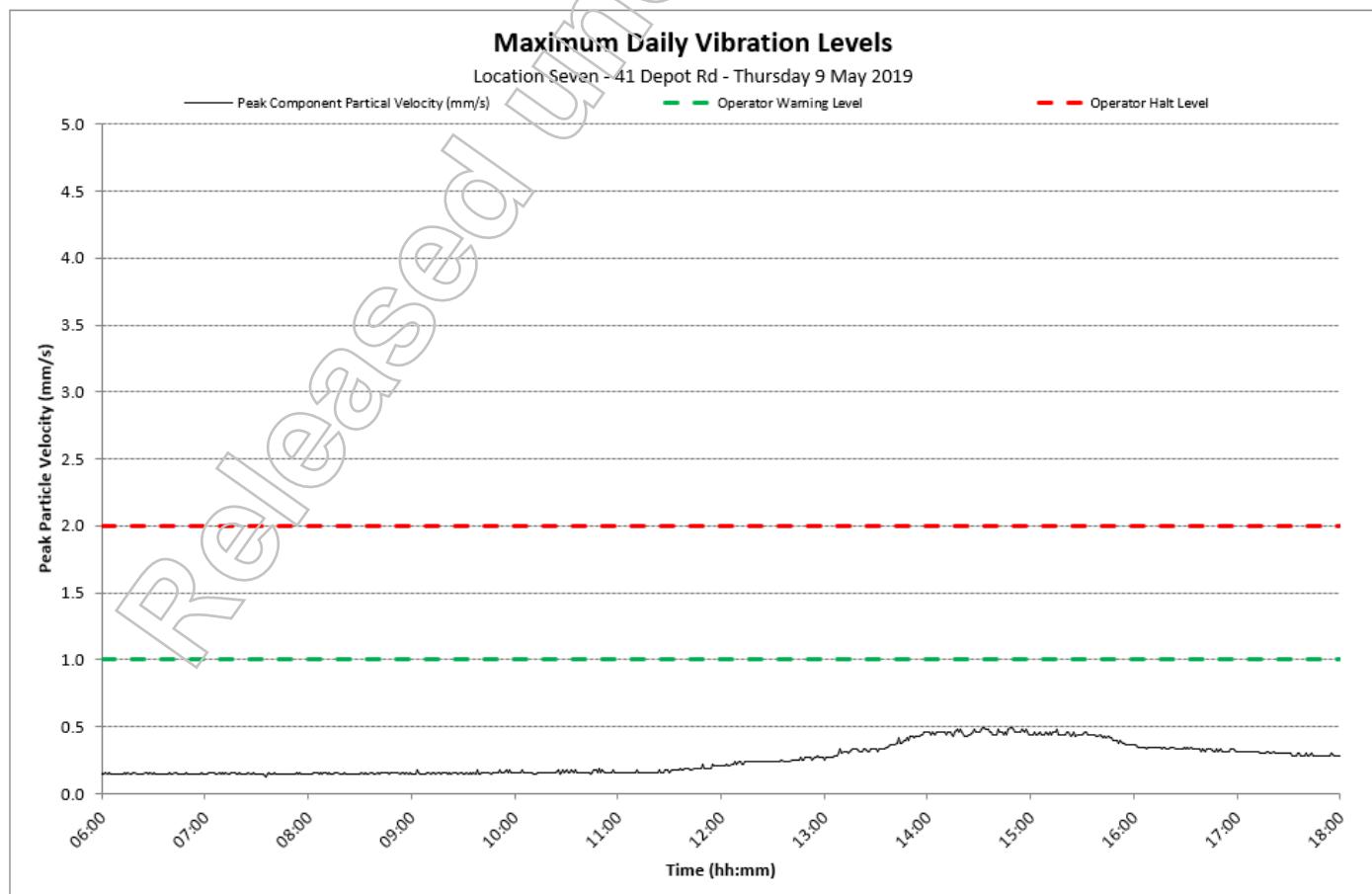
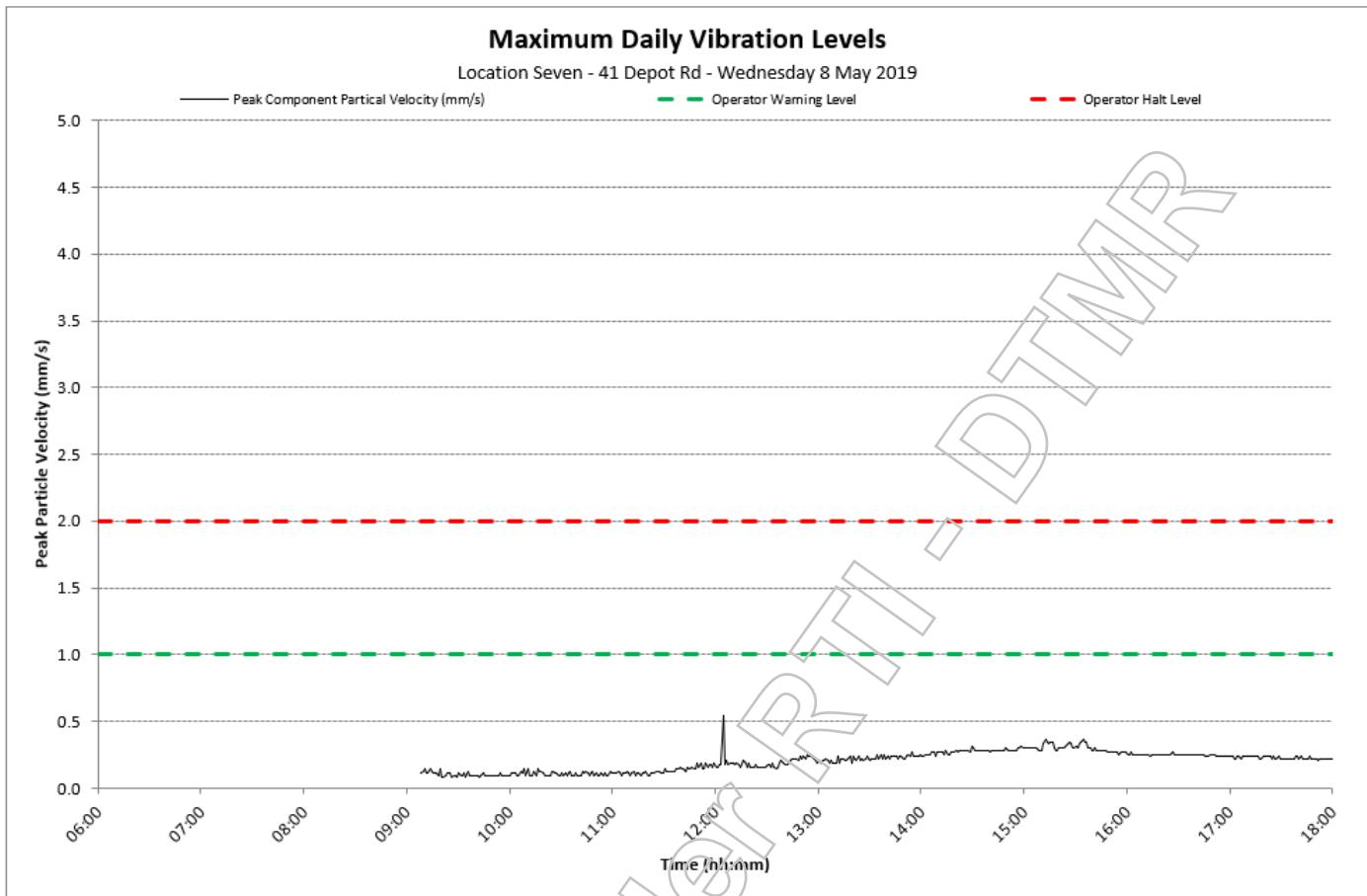
The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.

## **APPENDIX D**

### Vibration Monitoring Results Charts

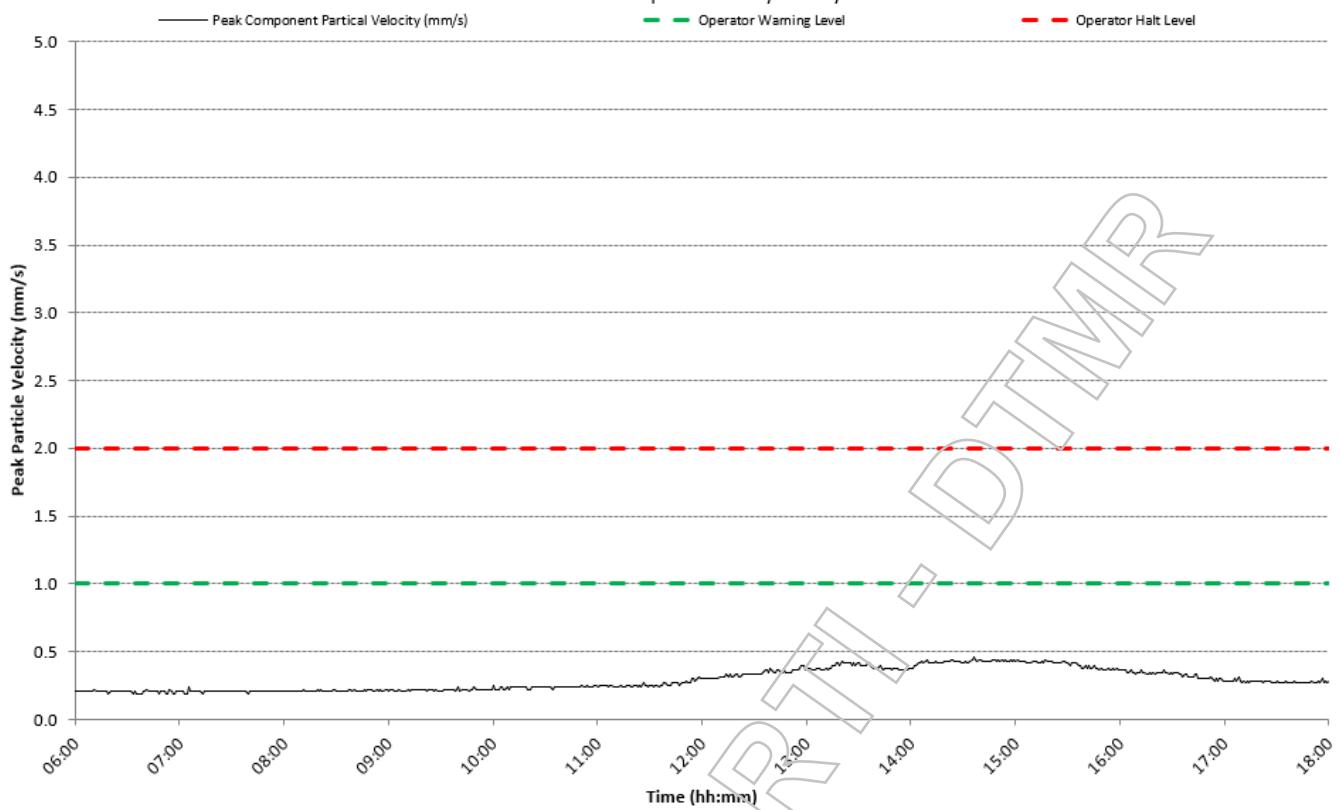
Released under RTI - DTM/R

## 1 Location Seven: 41 Depot Road, Deagon



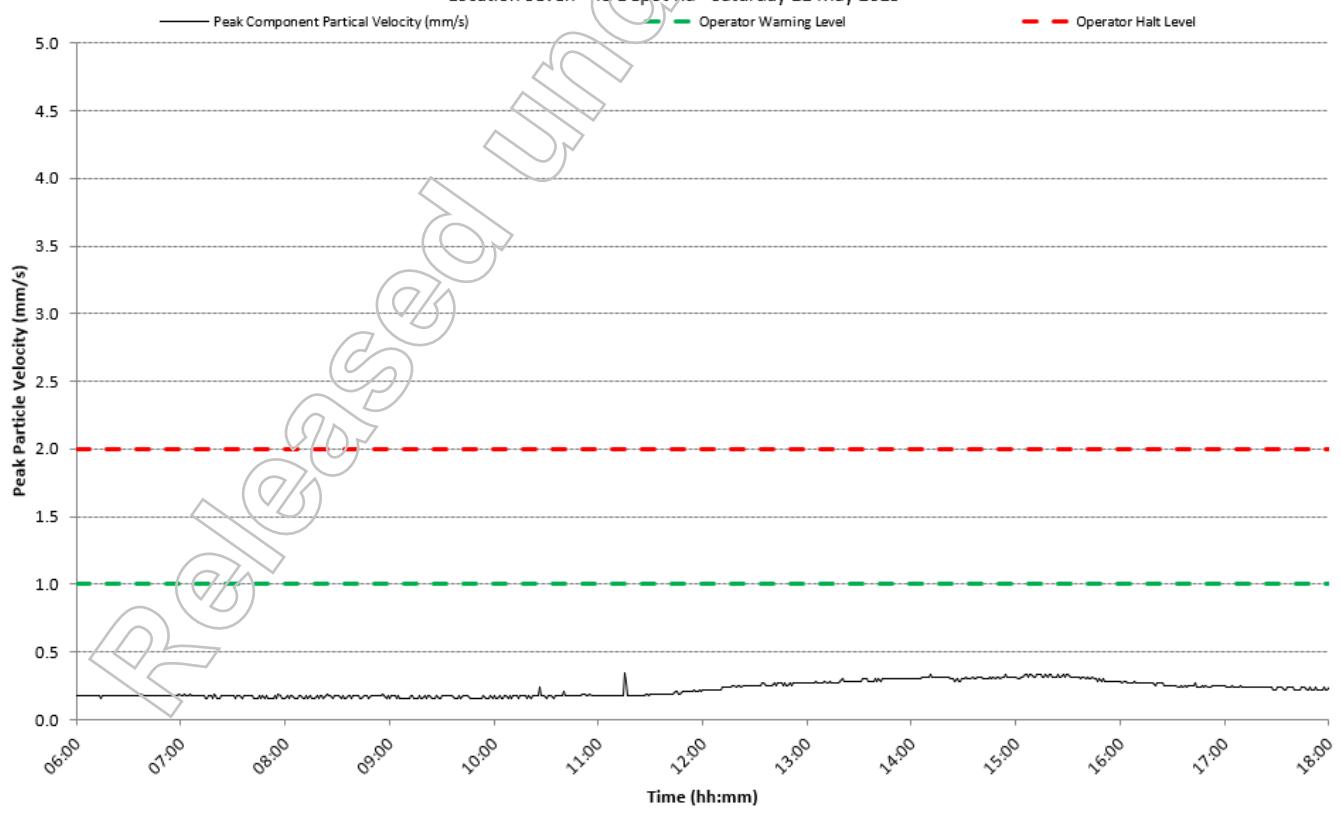
### Maximum Daily Vibration Levels

Location Seven - 41 Depot Rd - Friday 10 May 2019



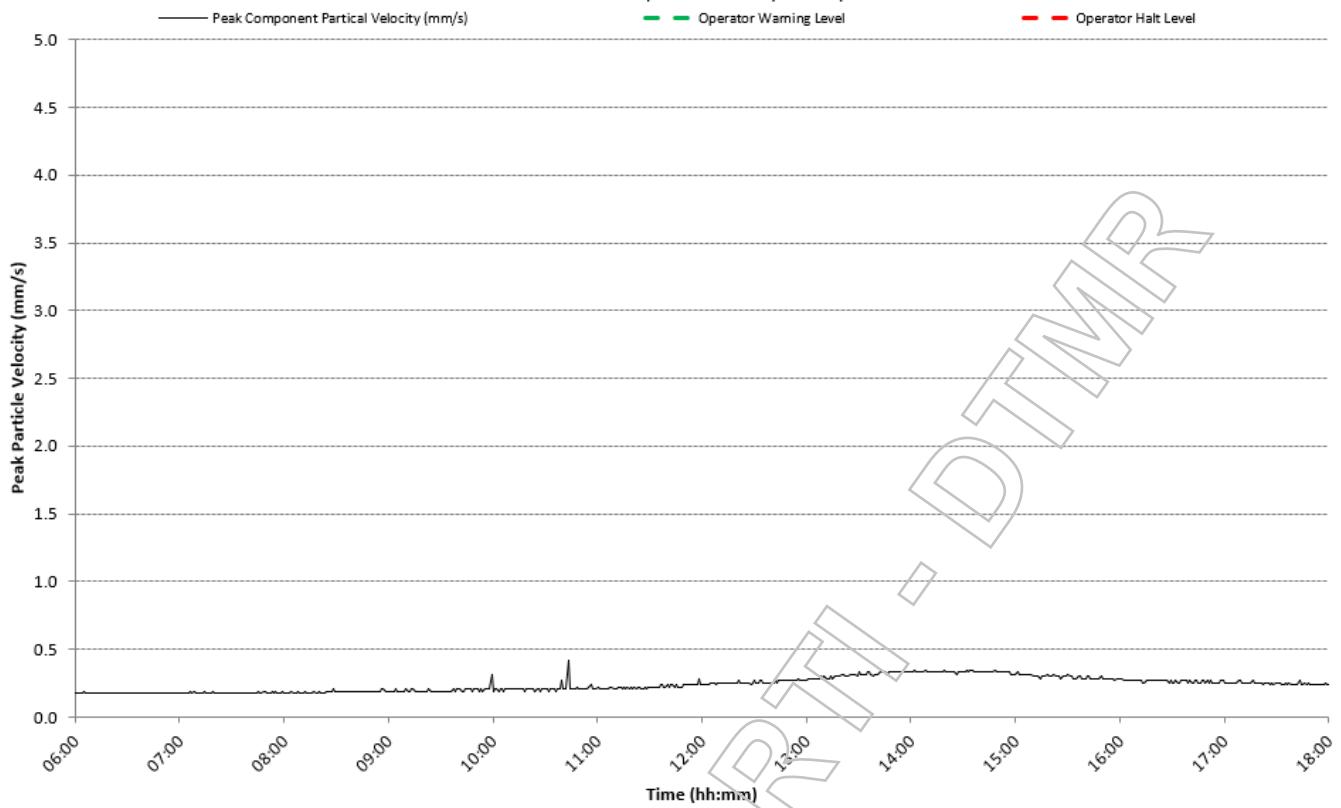
### Maximum Daily Vibration Levels

Location Seven - 41 Depot Rd - Saturday 11 May 2019



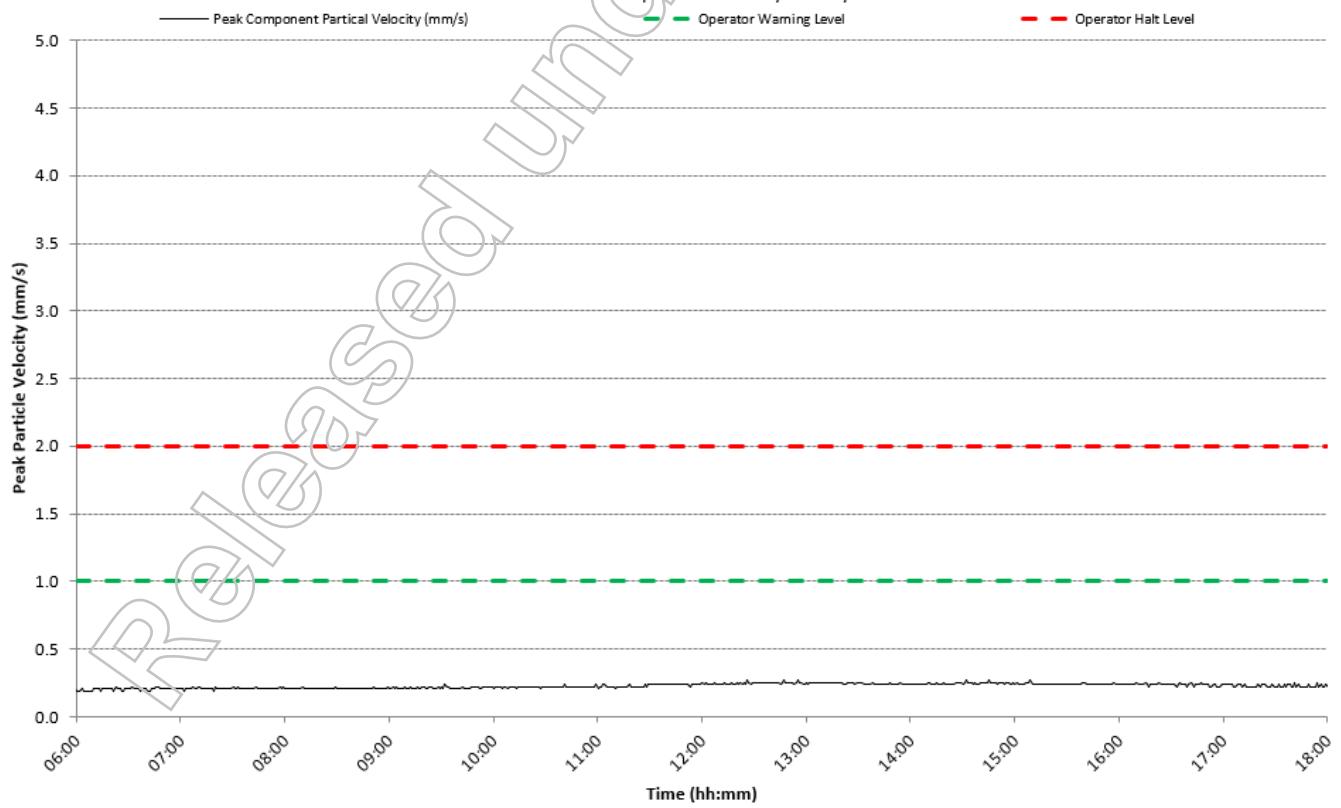
### Maximum Daily Vibration Levels

Location Seven - 41 Depot Rd - Sunday 12 May 2019



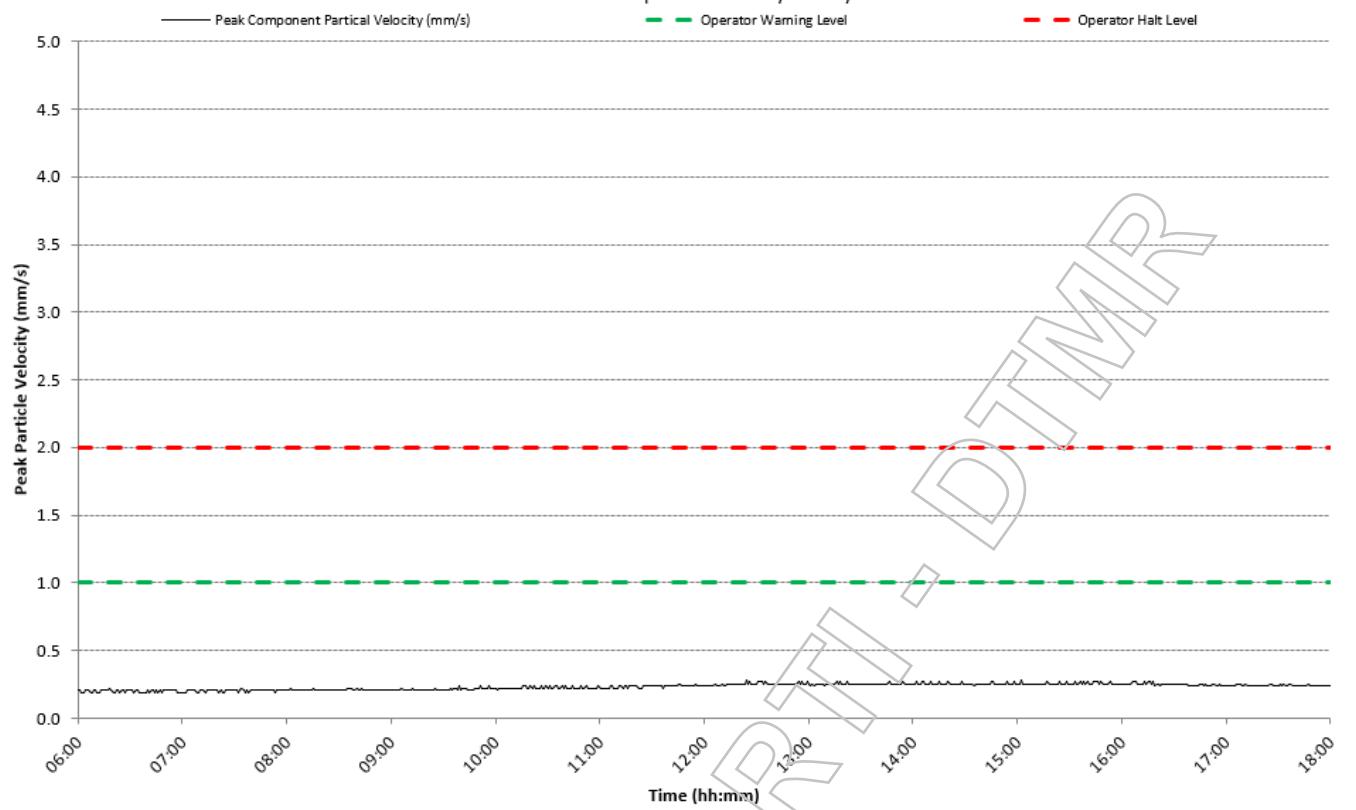
### Maximum Daily Vibration Levels

Location Seven - 41 Depot Rd - Monday 13 May 2019

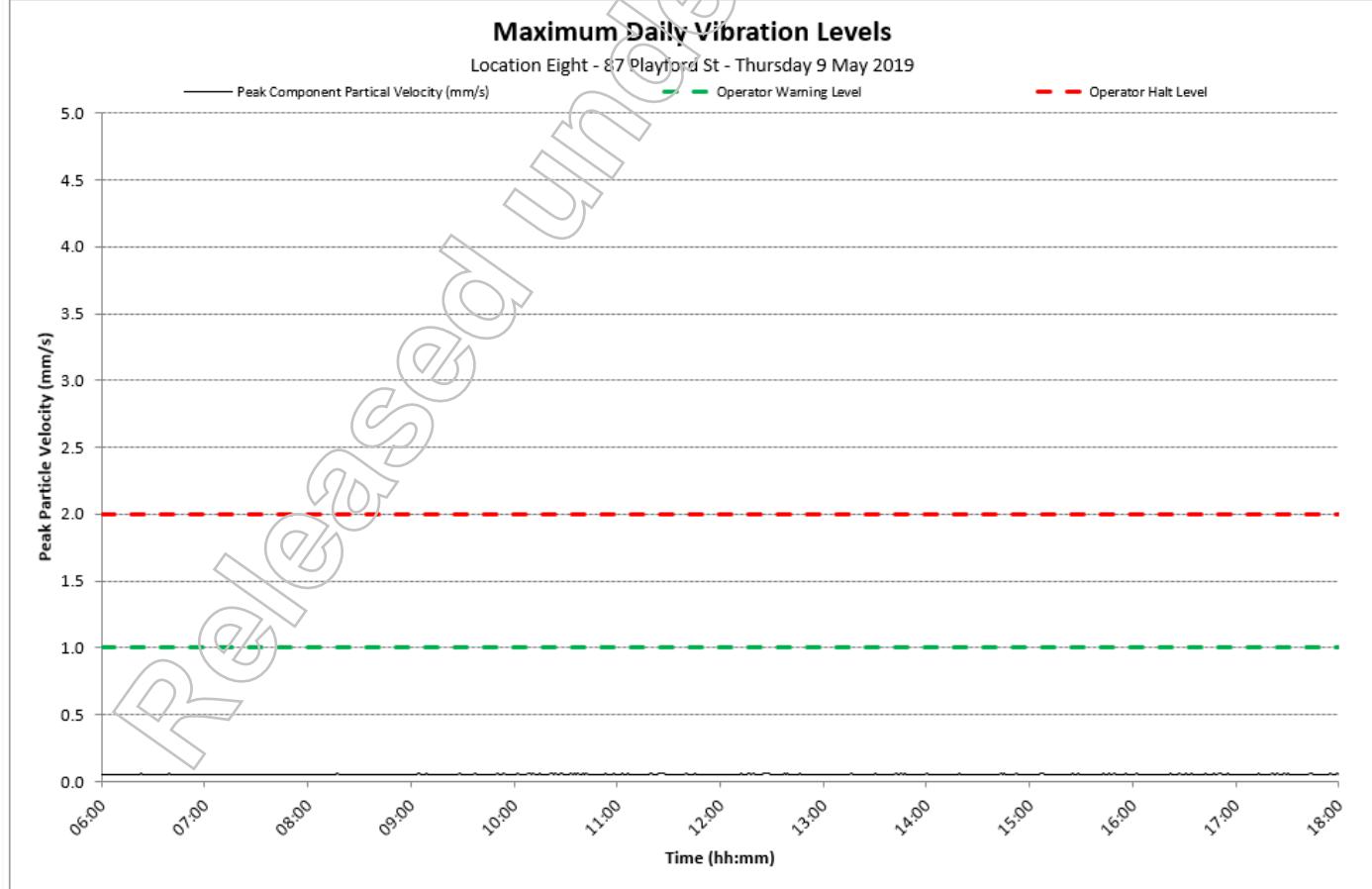
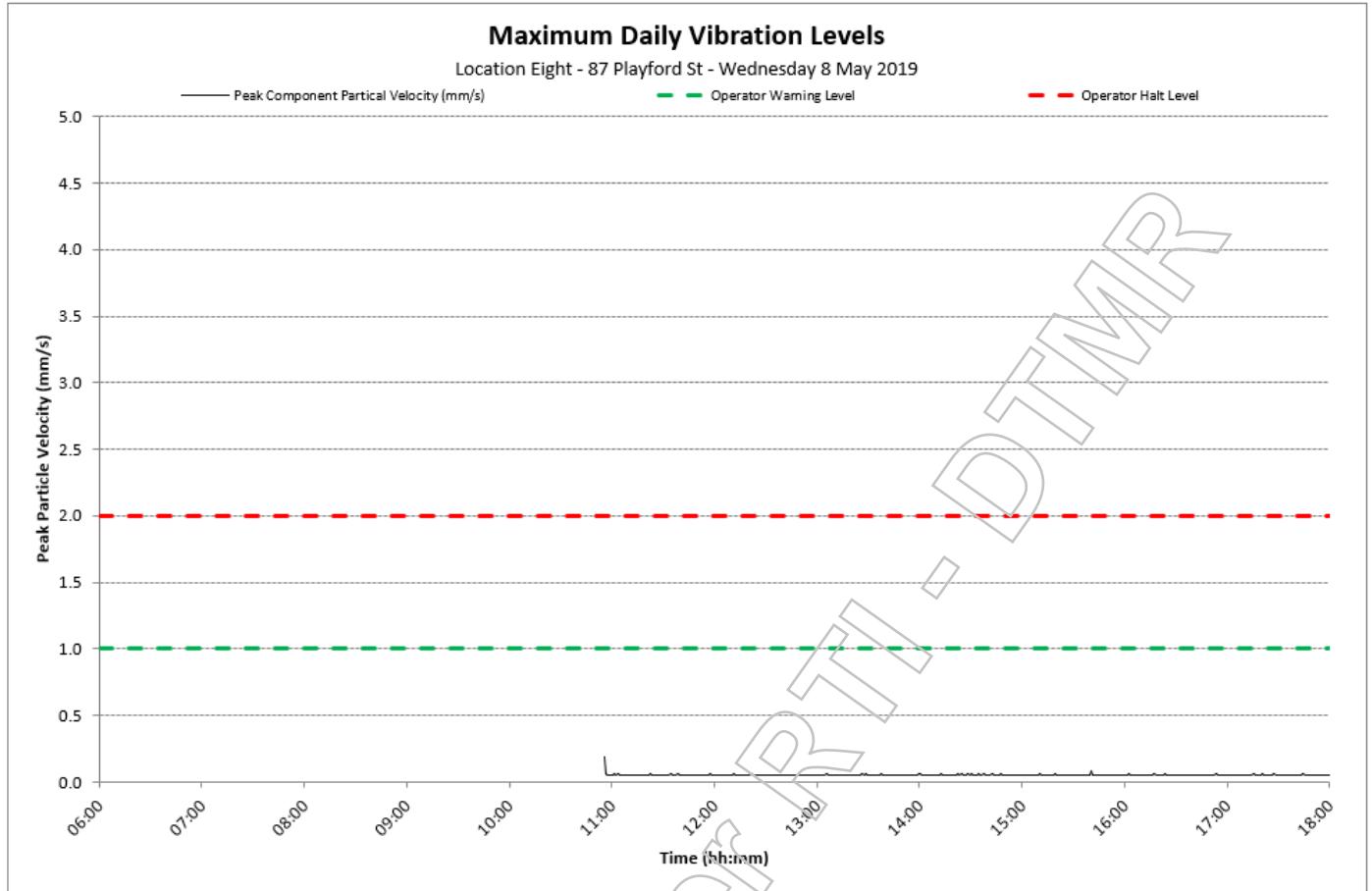


## Maximum Daily Vibration Levels

Location Seven - 41 Depot Rd - Tuesday 14 May 2019

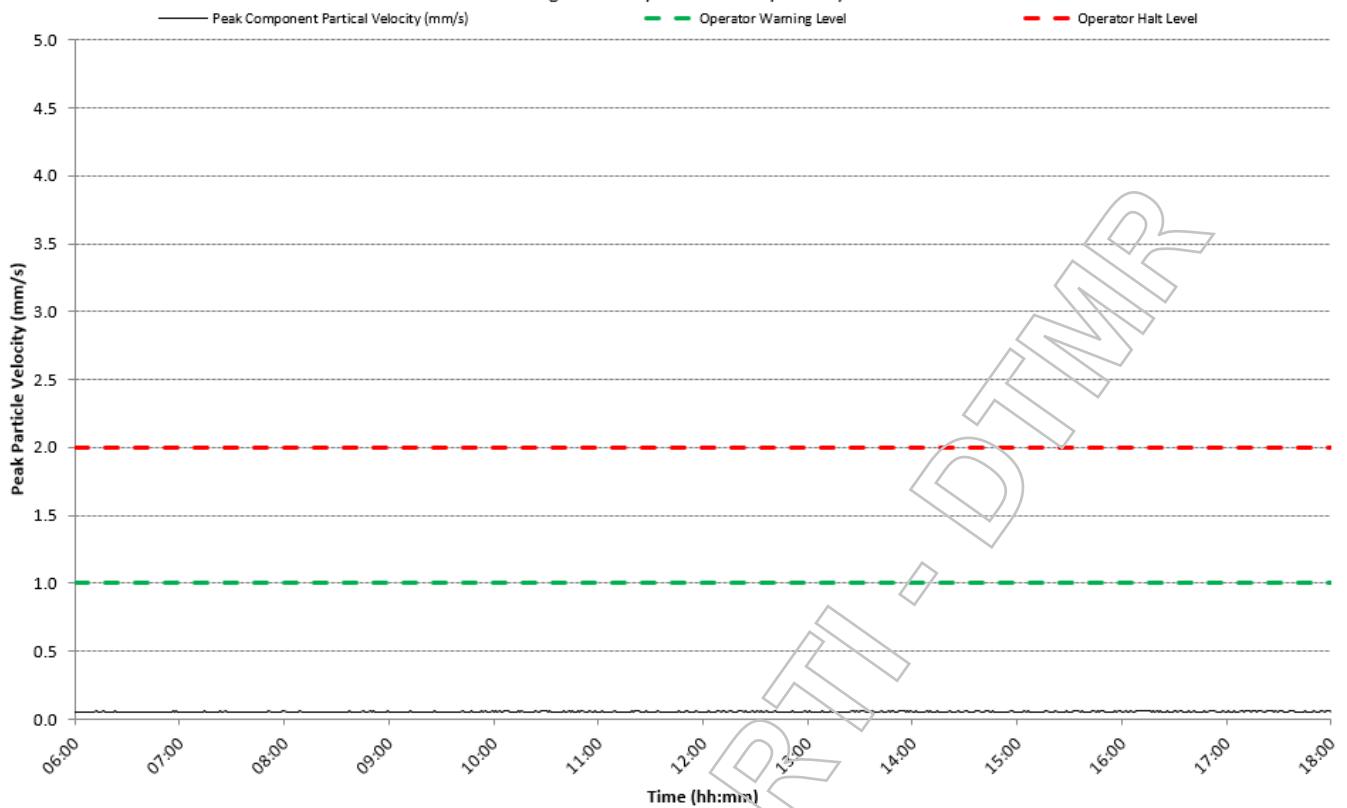


## 2 Location 8: 87 Playford Street, Bracken Ridge



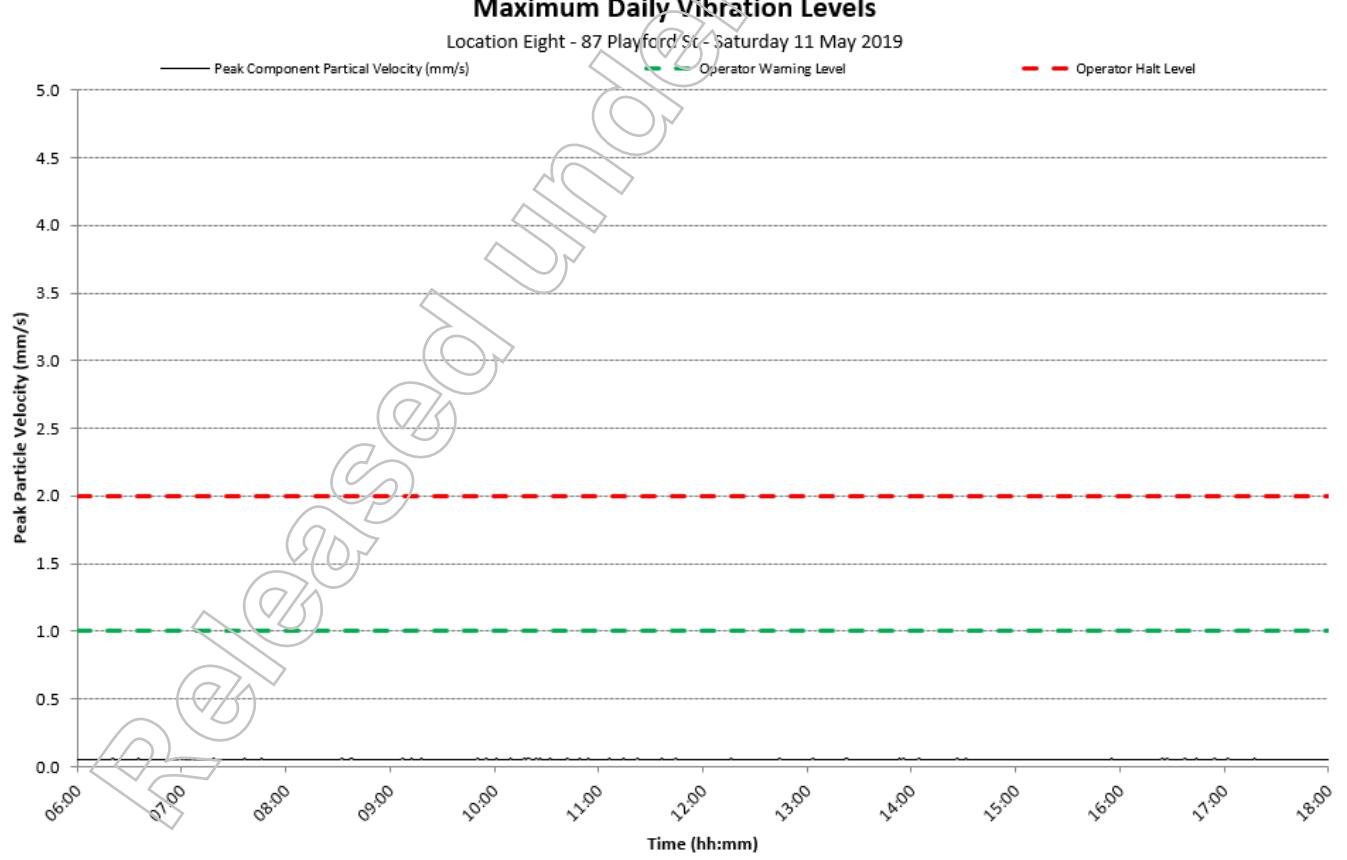
### Maximum Daily Vibration Levels

Location Eight - 87 Playford St - Friday 10 May 2019



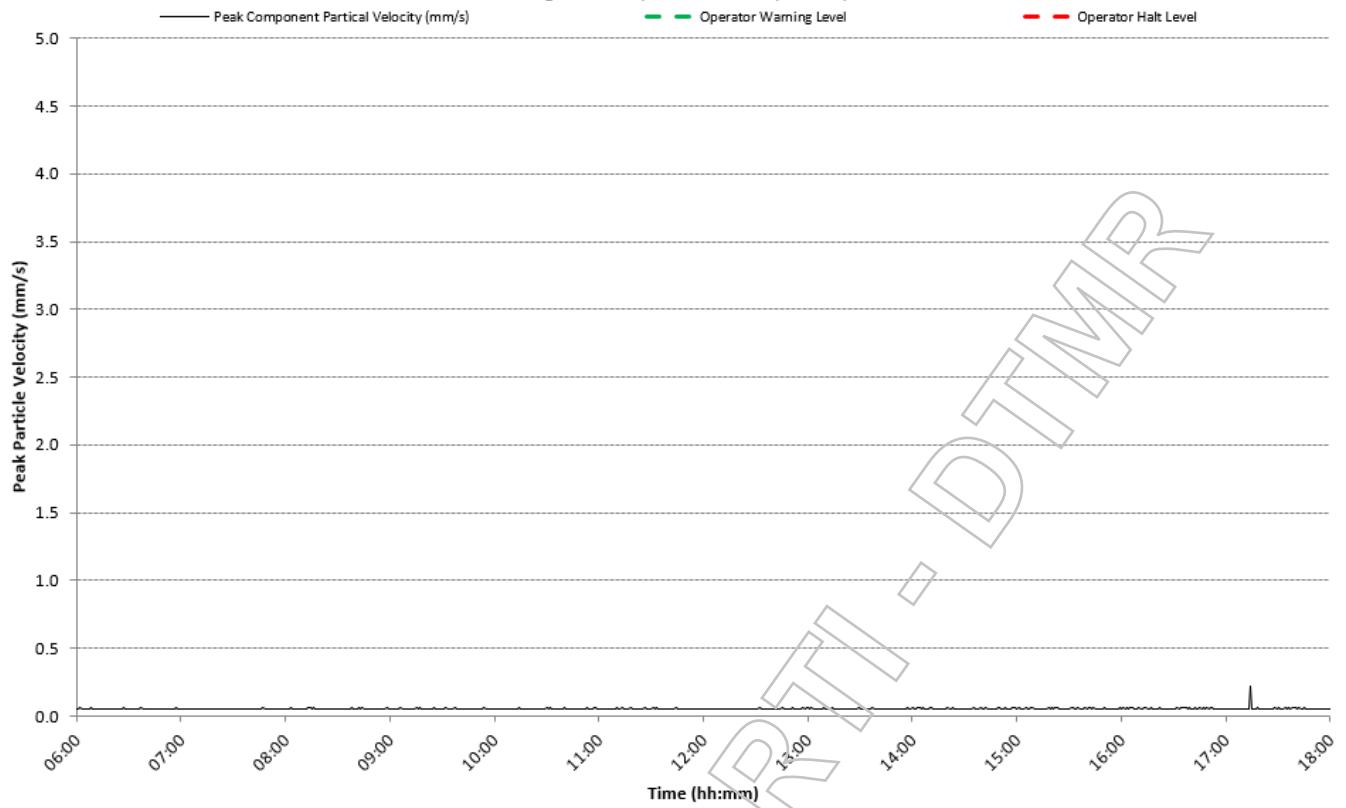
### Maximum Daily Vibration Levels

Location Eight - 87 Playford St - Saturday 11 May 2019



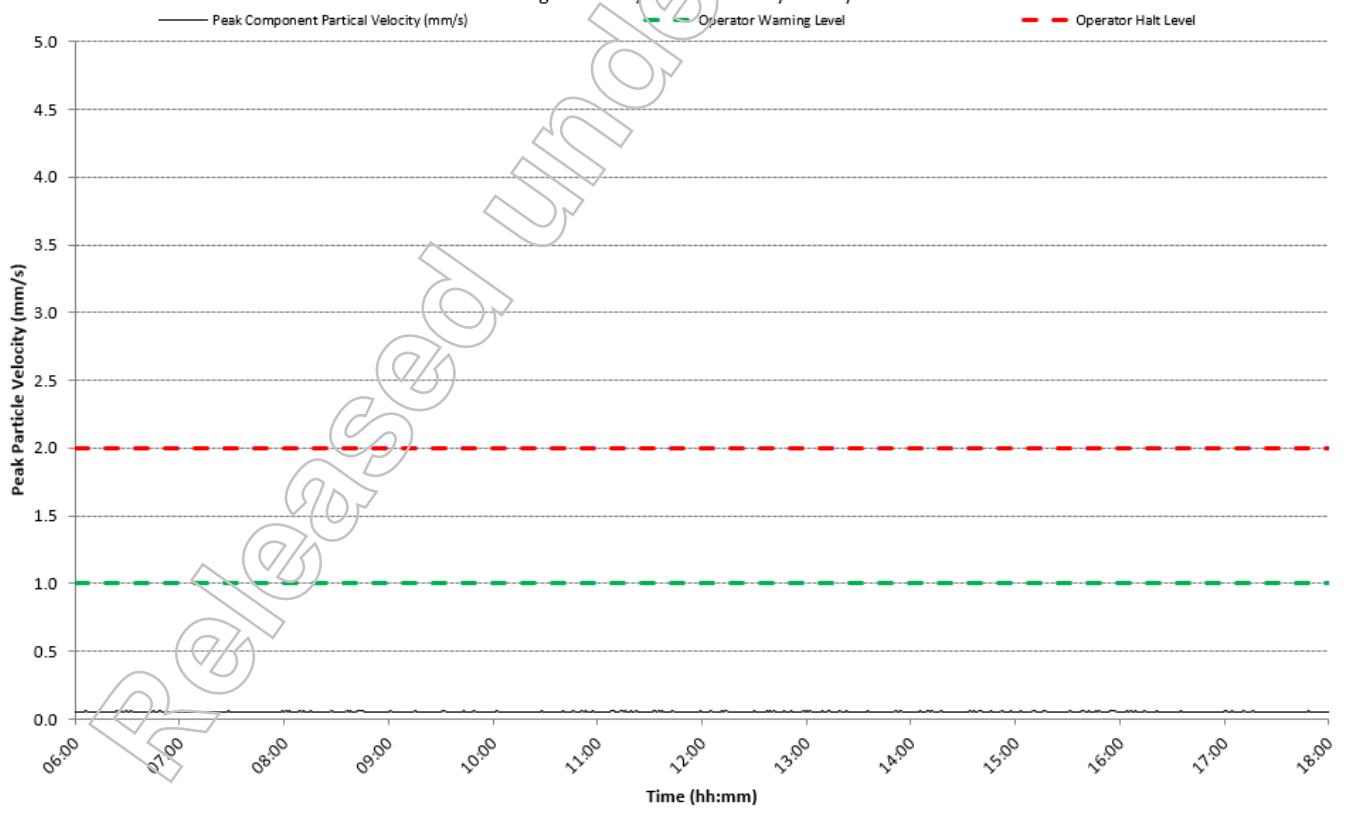
### Maximum Daily Vibration Levels

Location Eight - 87 Playford St - Sunday 12 May 2019

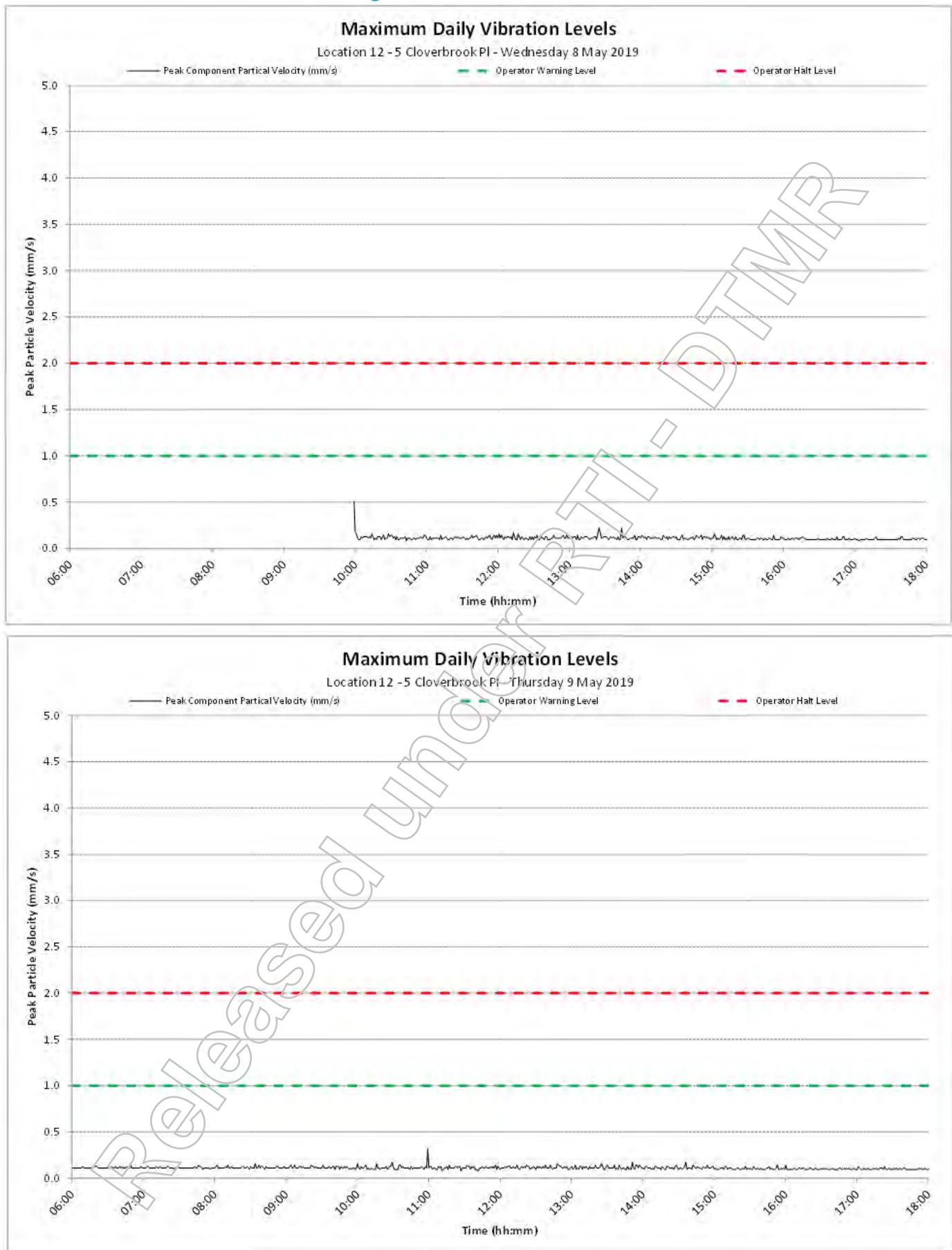


### Maximum Daily Vibration Levels

Location Eight - 87 Playford St - Monday 13 May 2019

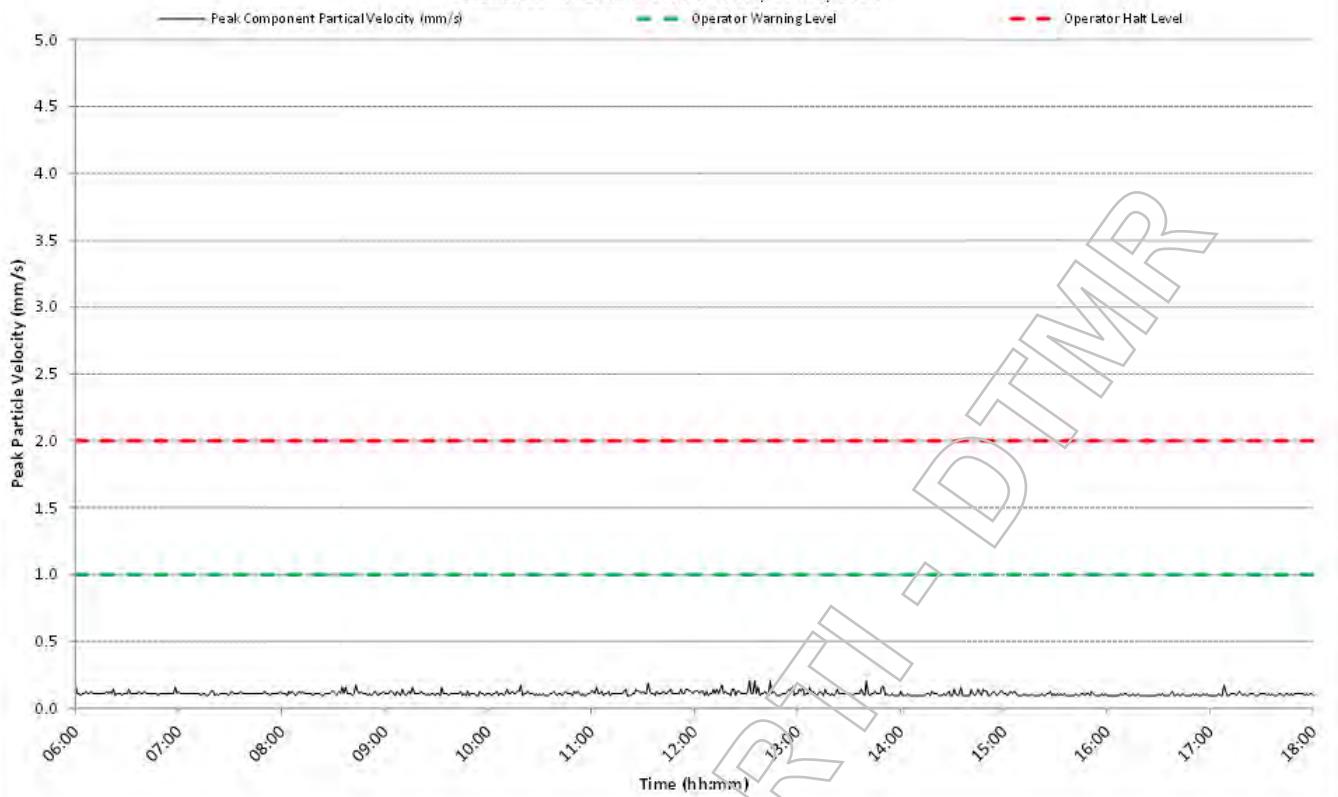


### 3 5 Cloverbrook Place, Bracken Ridge



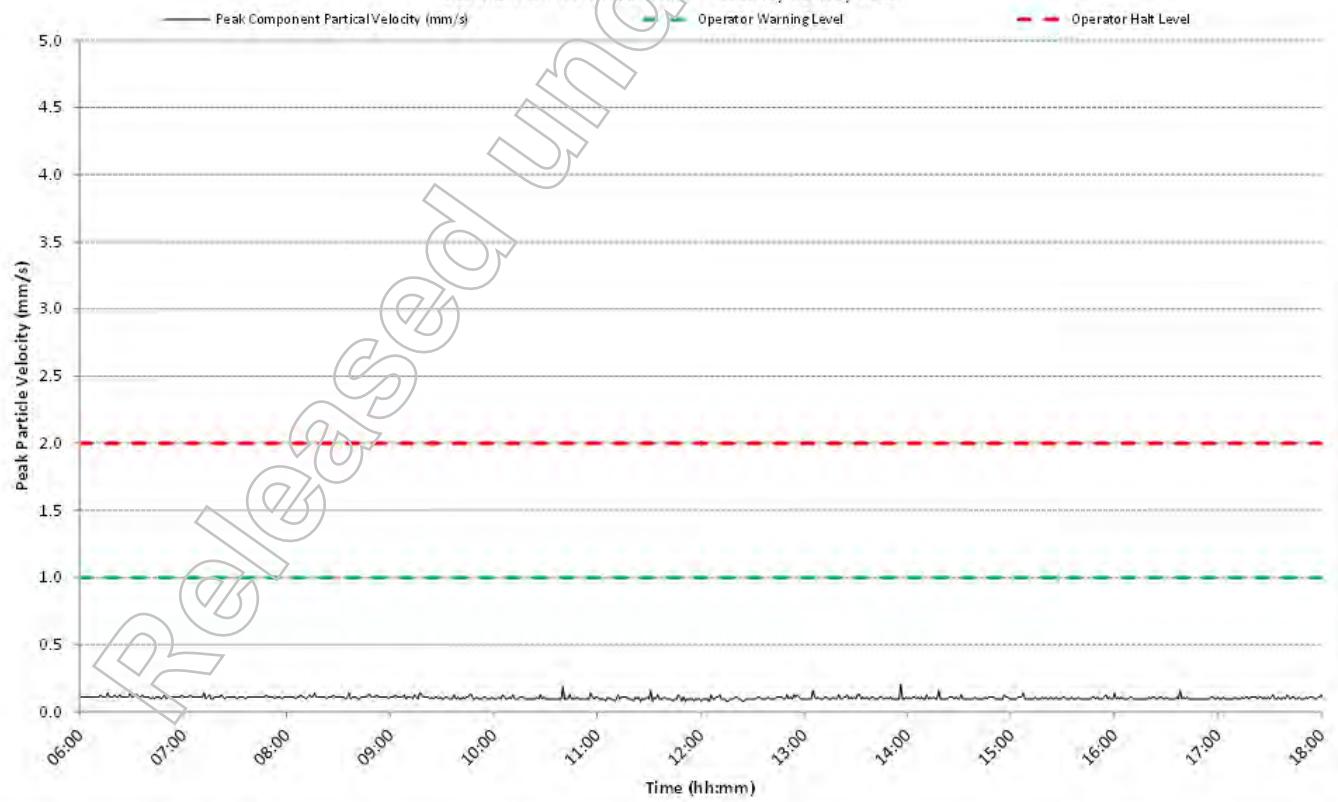
### Maximum Daily Vibration Levels

Location 12 - 5 Cloverbrook Pl - Friday 10 May 2019



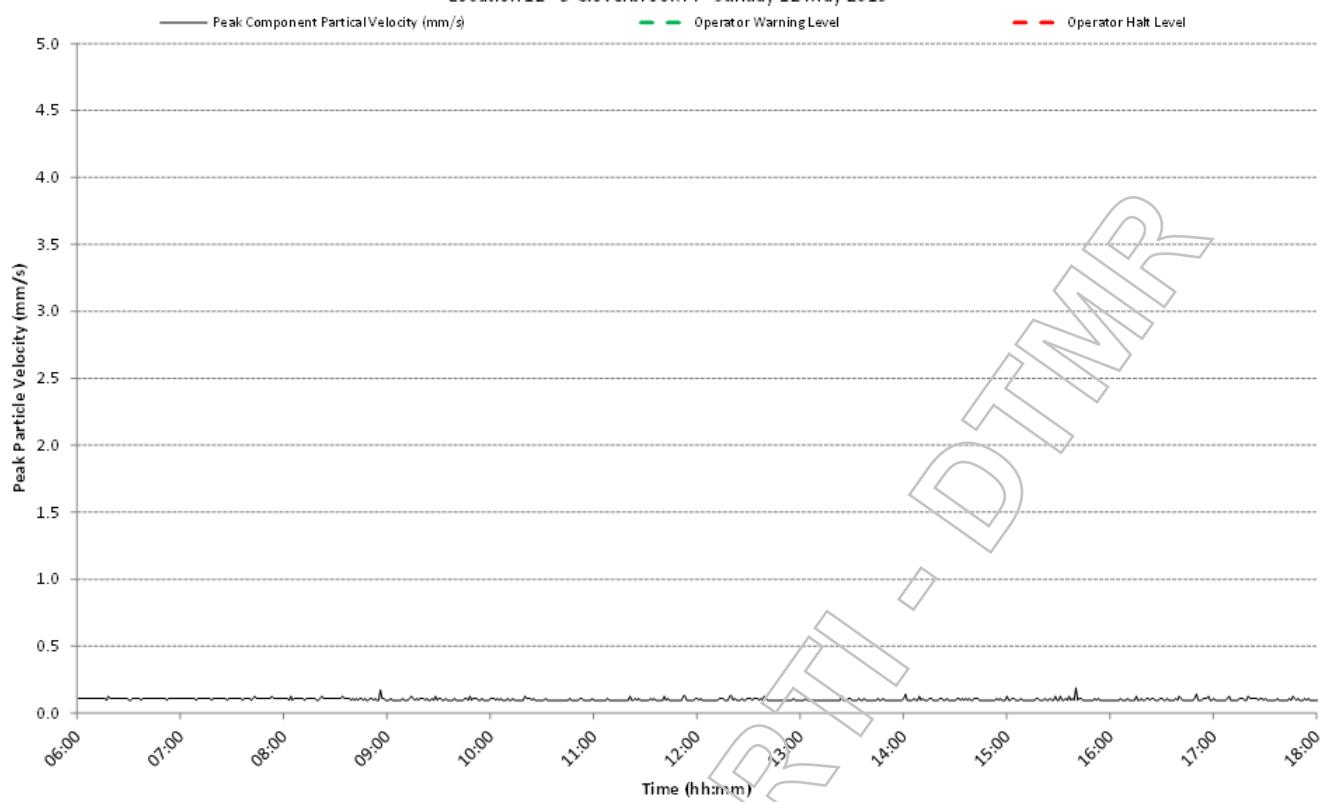
### Maximum Daily Vibration Levels

Location 12 - 5 Cloverbrook Pl - Saturday 11 May 2019



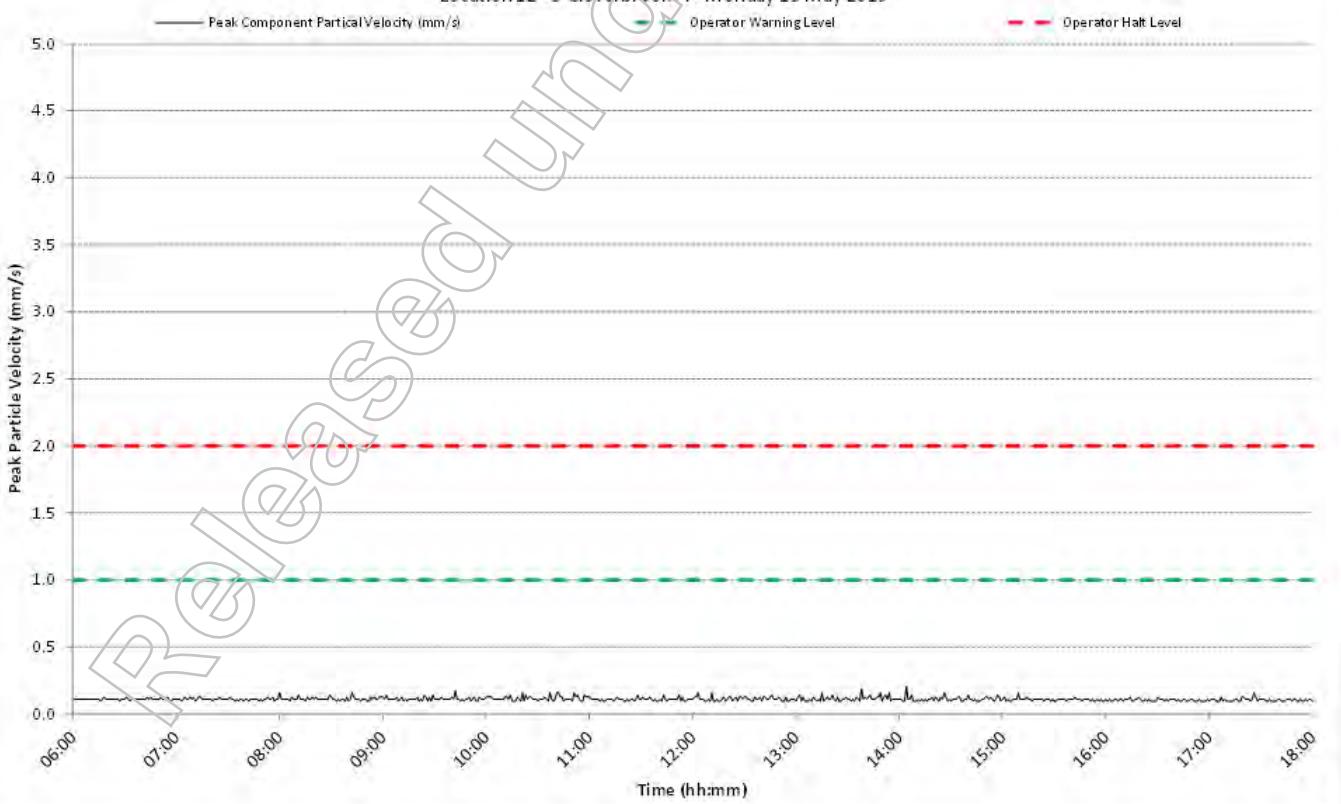
### Maximum Daily Vibration Levels

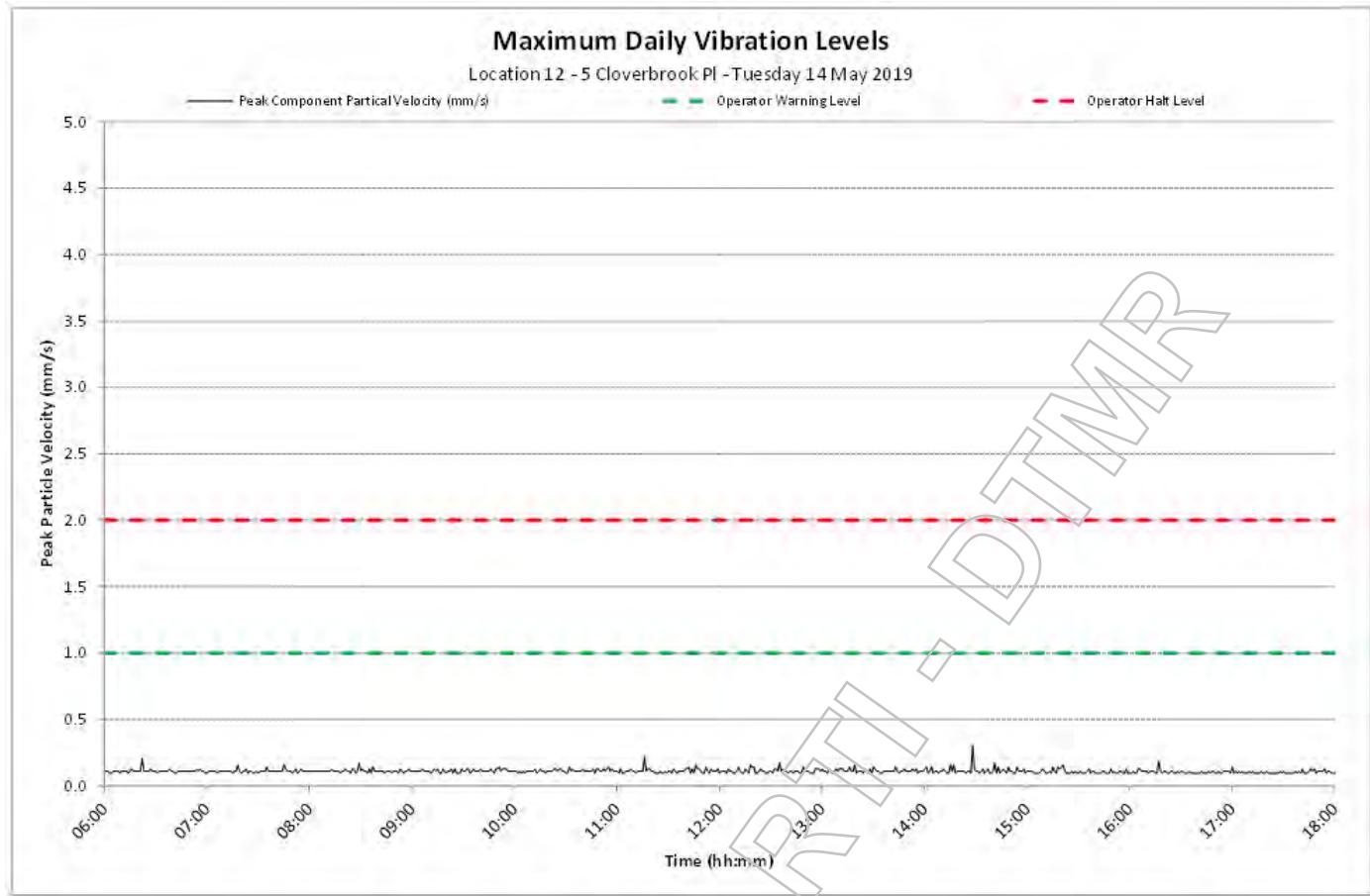
Location 12 -5 Cloverbrook Pl -Sunday 12 May 2019



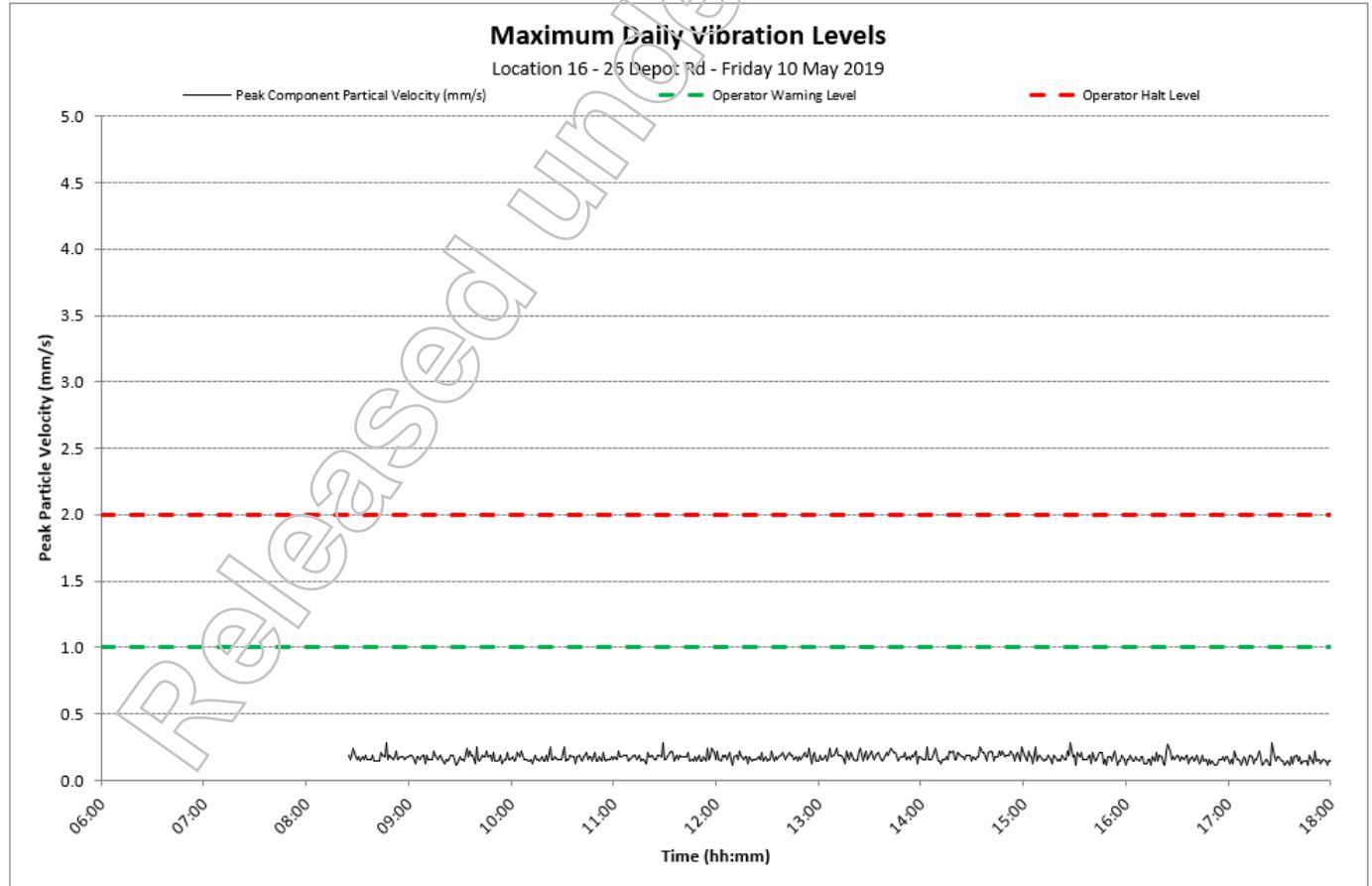
### Maximum Daily Vibration Levels

Location 12 -5 CloverbrookPl -Monday 13 May 2019



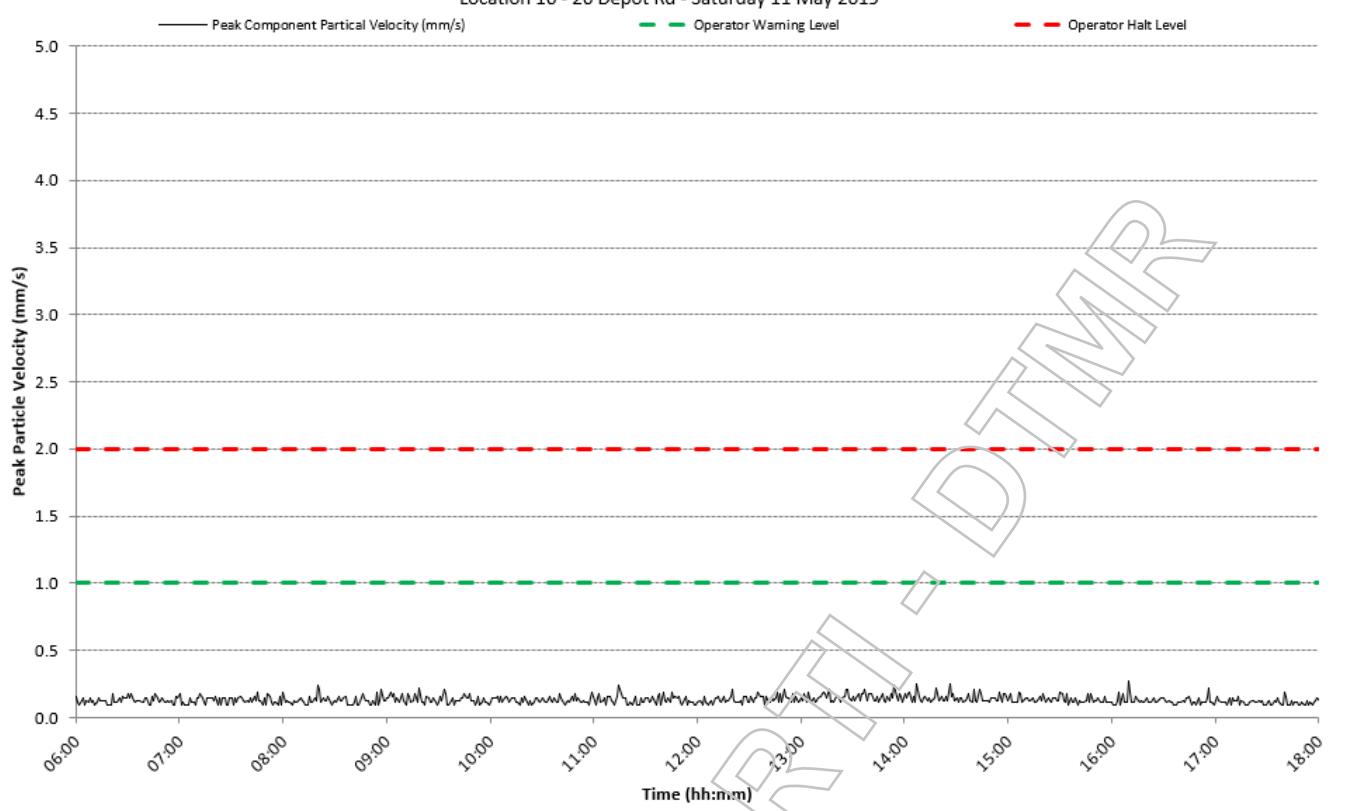


#### 4 Location 16: 26 Depot Road, Deagon



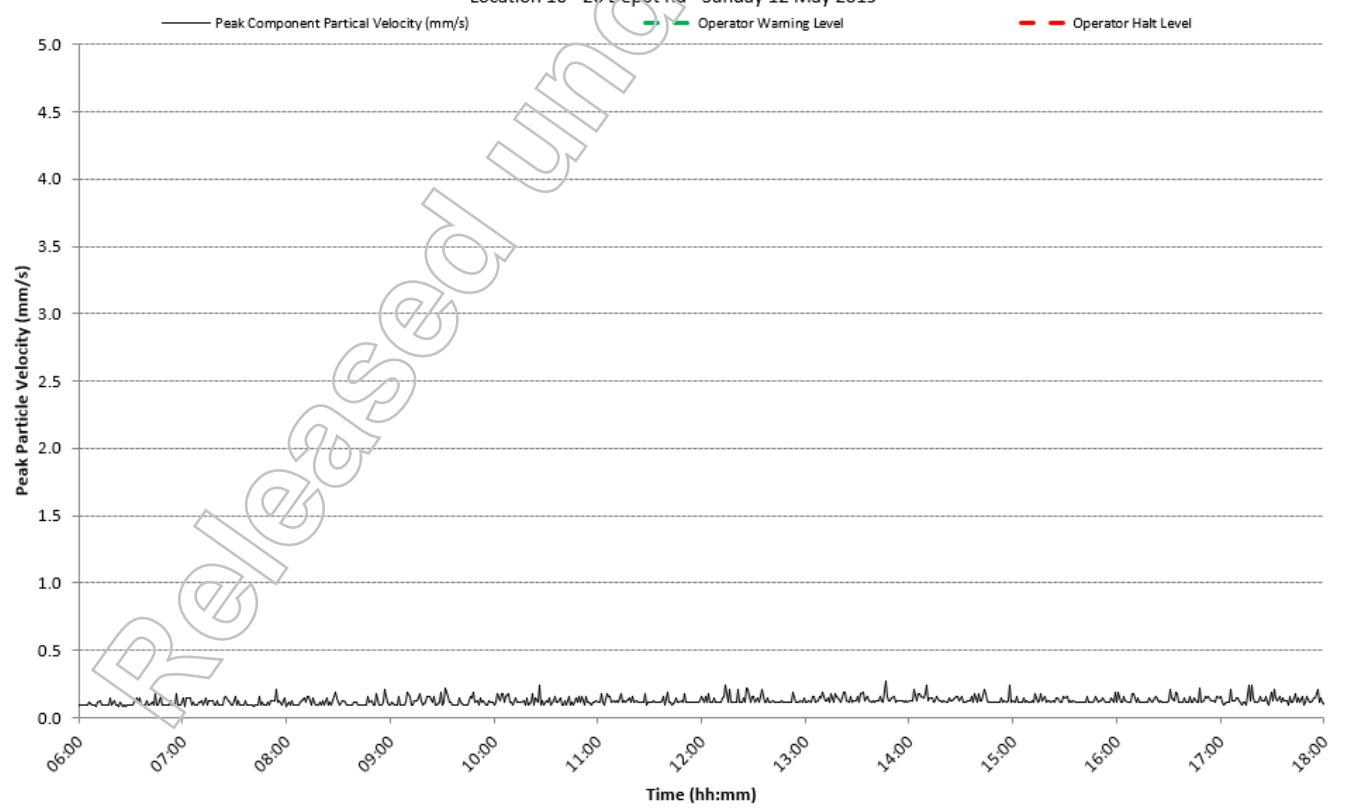
### Maximum Daily Vibration Levels

Location 16 - 26 Depot Rd - Saturday 11 May 2019



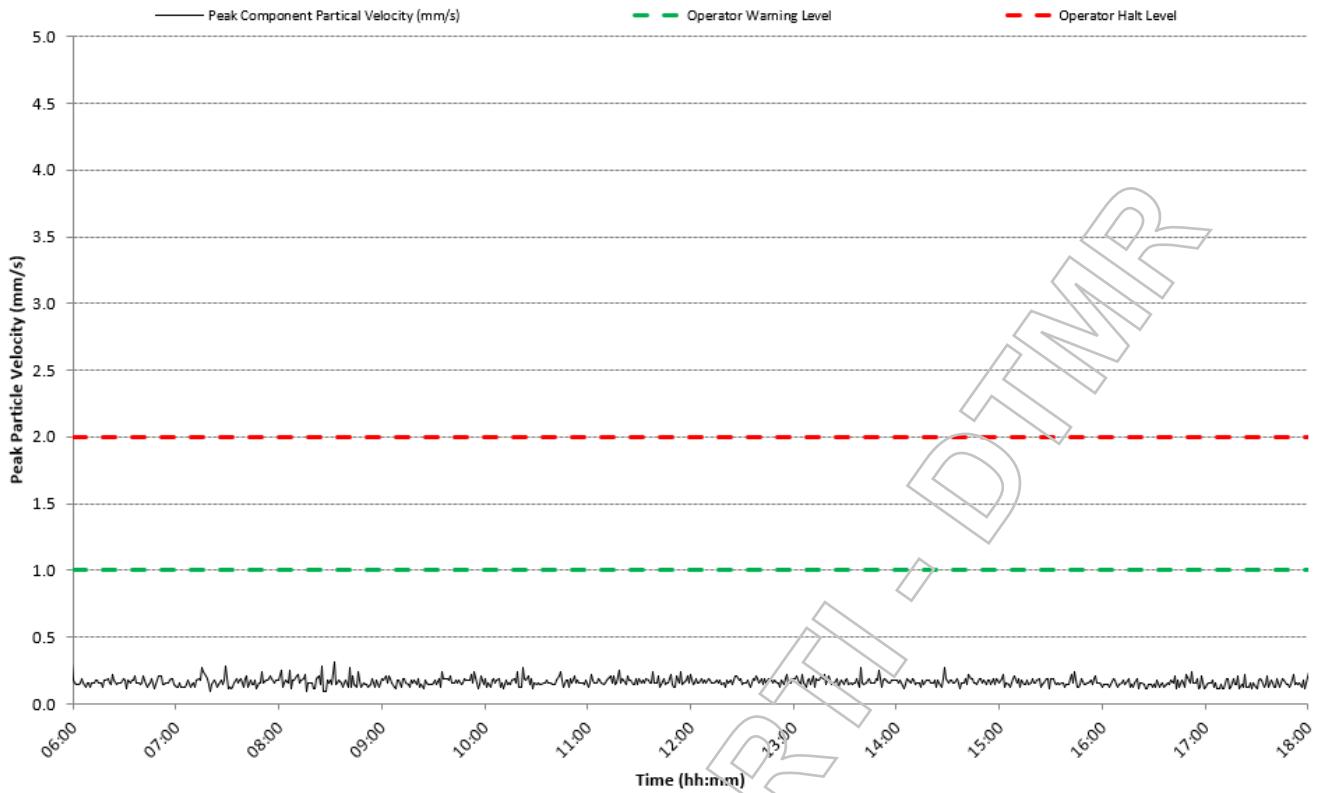
### Maximum Daily Vibration Levels

Location 16 - 26 Depot Rd - Sunday 12 May 2019



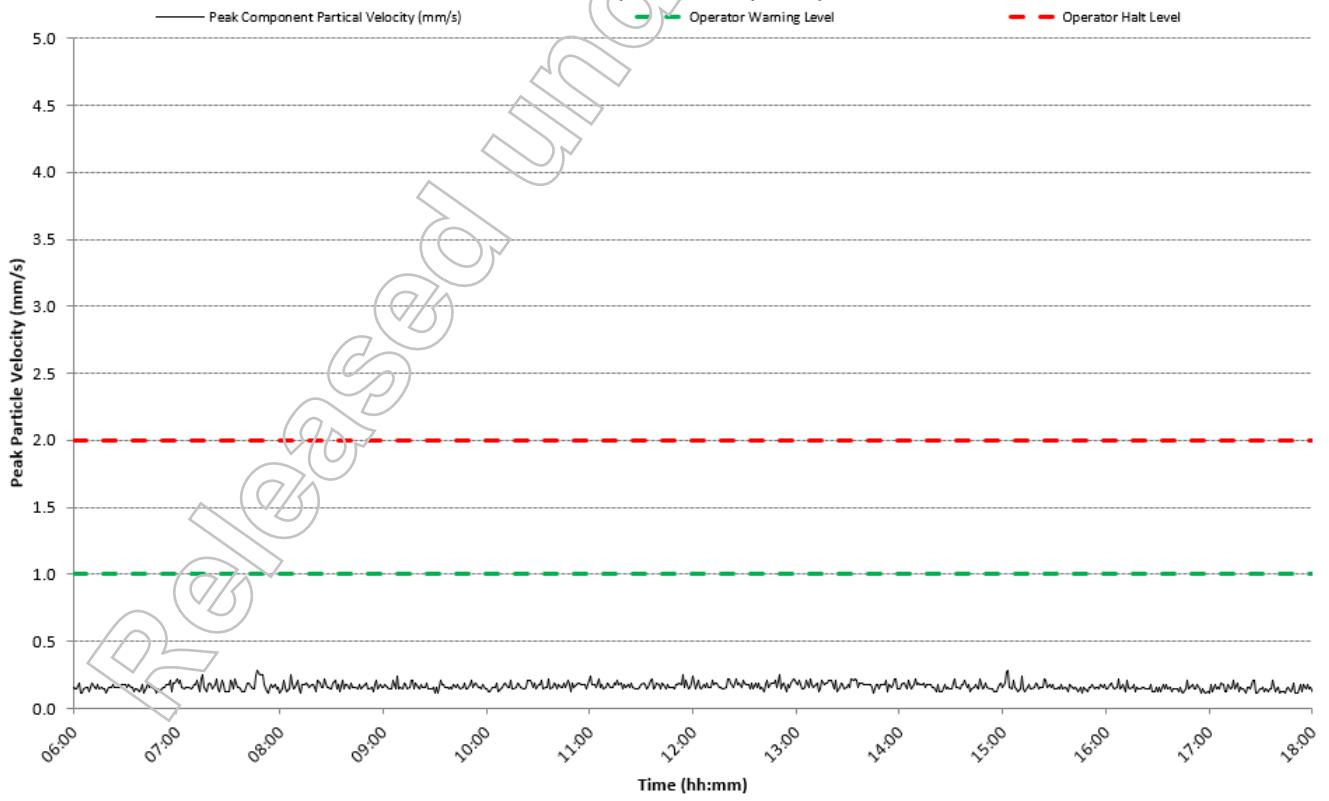
### Maximum Daily Vibration Levels

Location 16 - 26 Depot Rd - Monday 13 May 2019



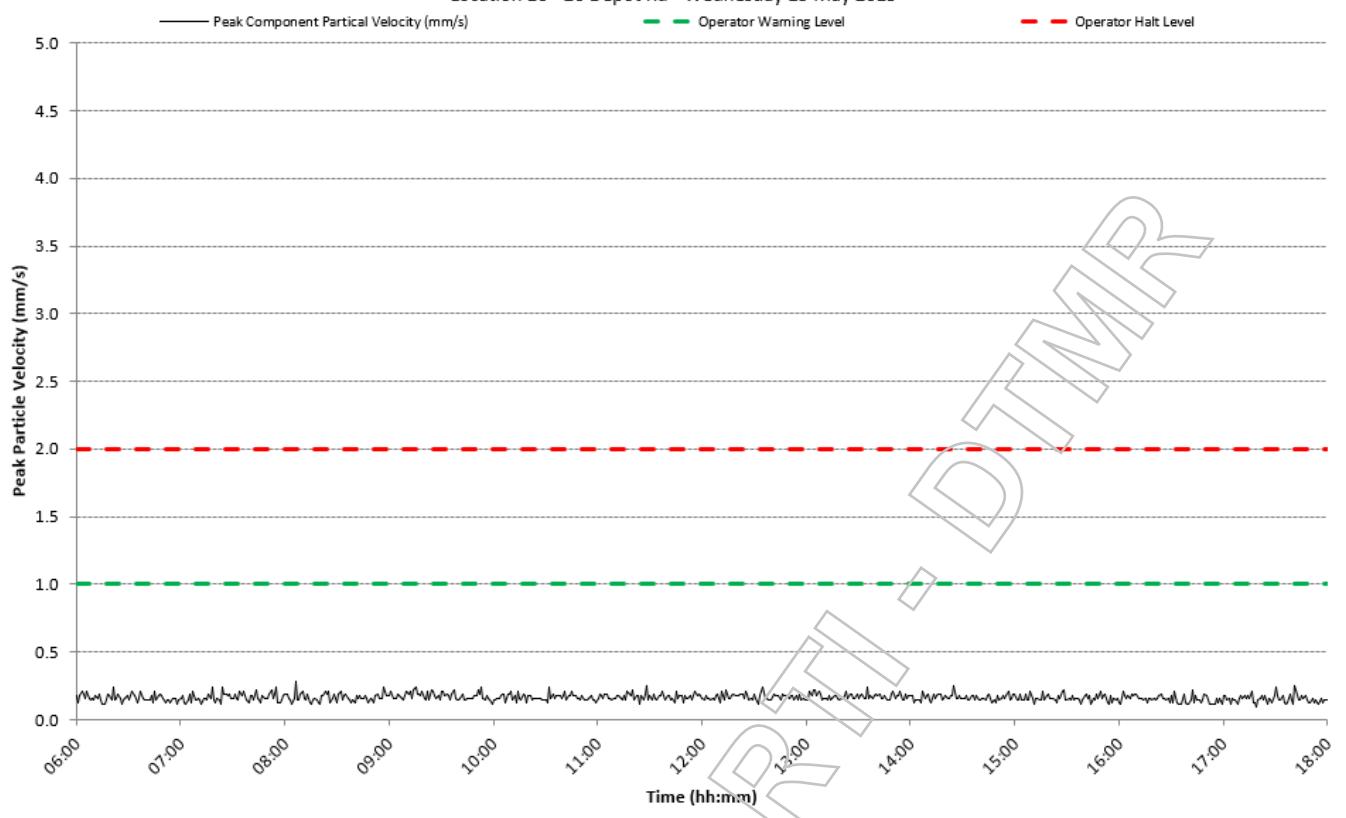
### Maximum Daily Vibration Levels

Location 16 - 26 Depot Rd - Tuesday 14 May 2019



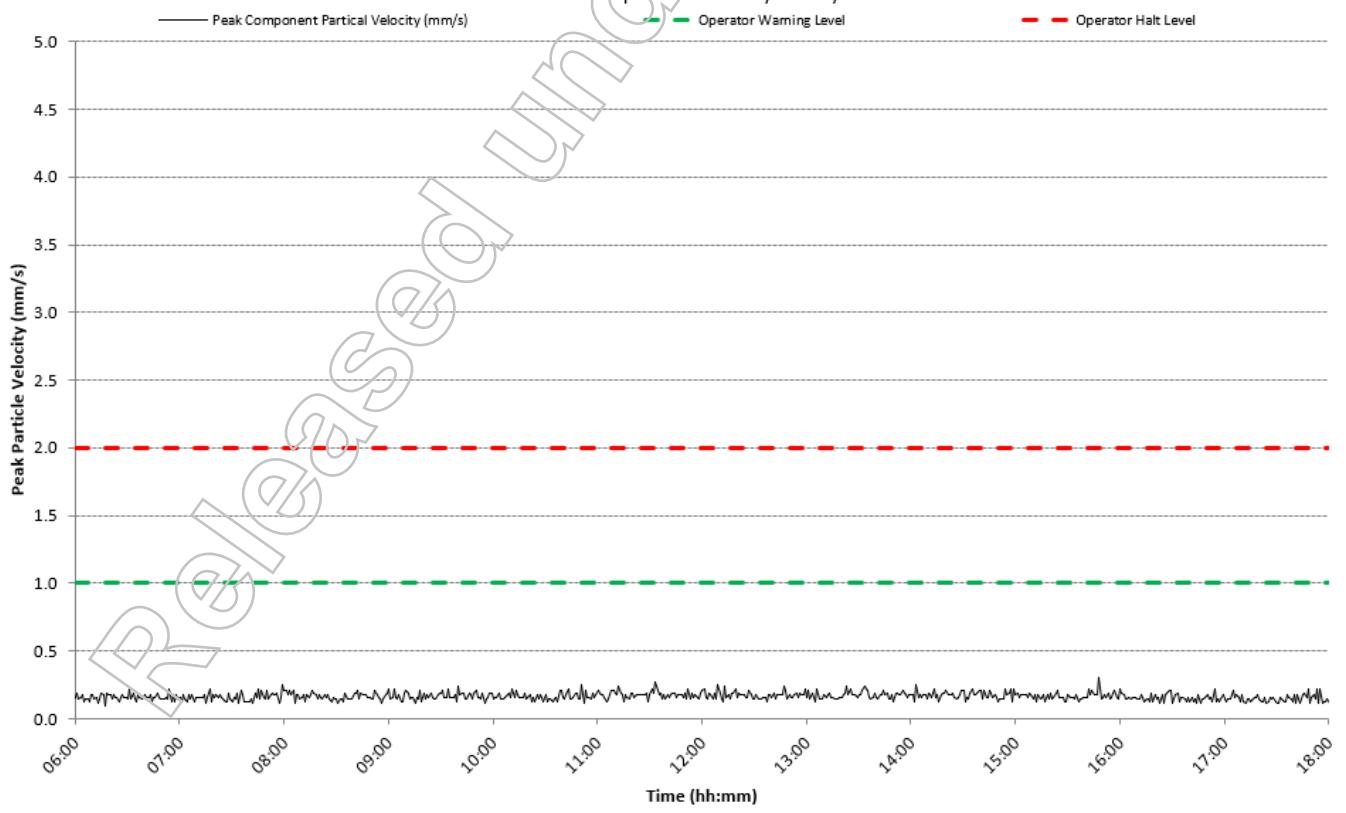
### Maximum Daily Vibration Levels

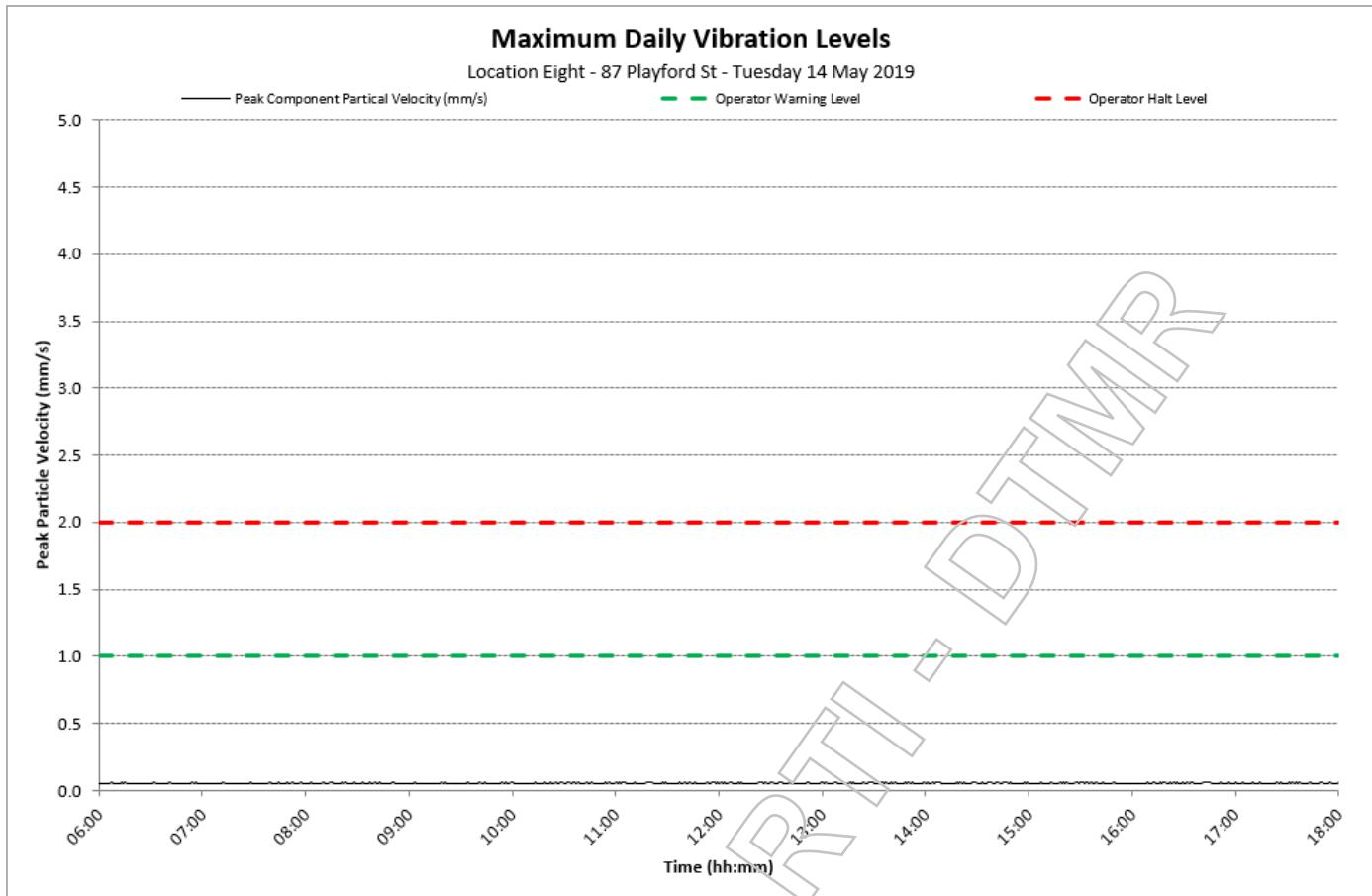
Location 16 - 26 Depot Rd - Wednesday 15 May 2019



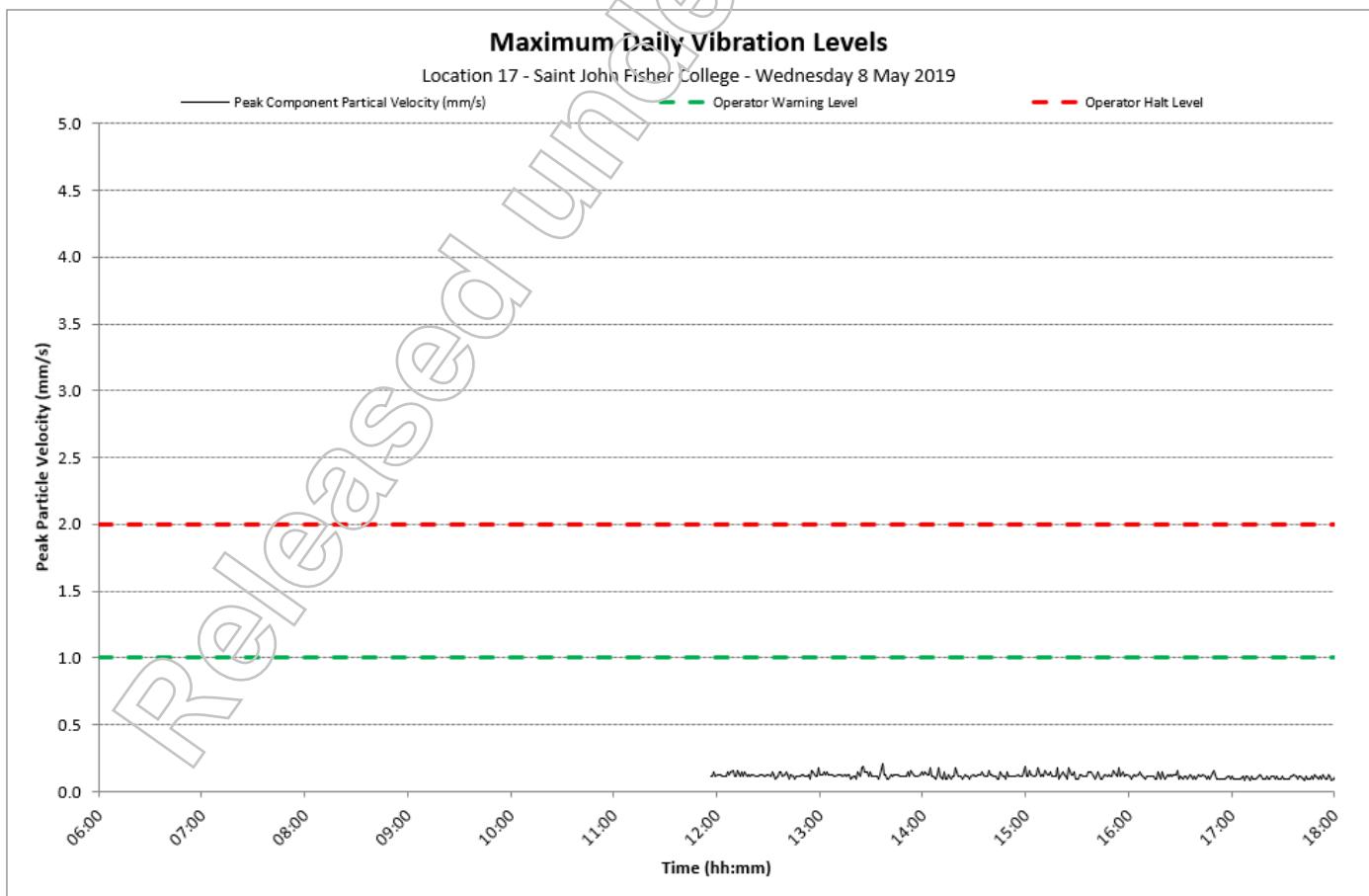
### Maximum Daily Vibration Levels

Location 16 - 26 Depot Rd - Thursday 16 May 2019



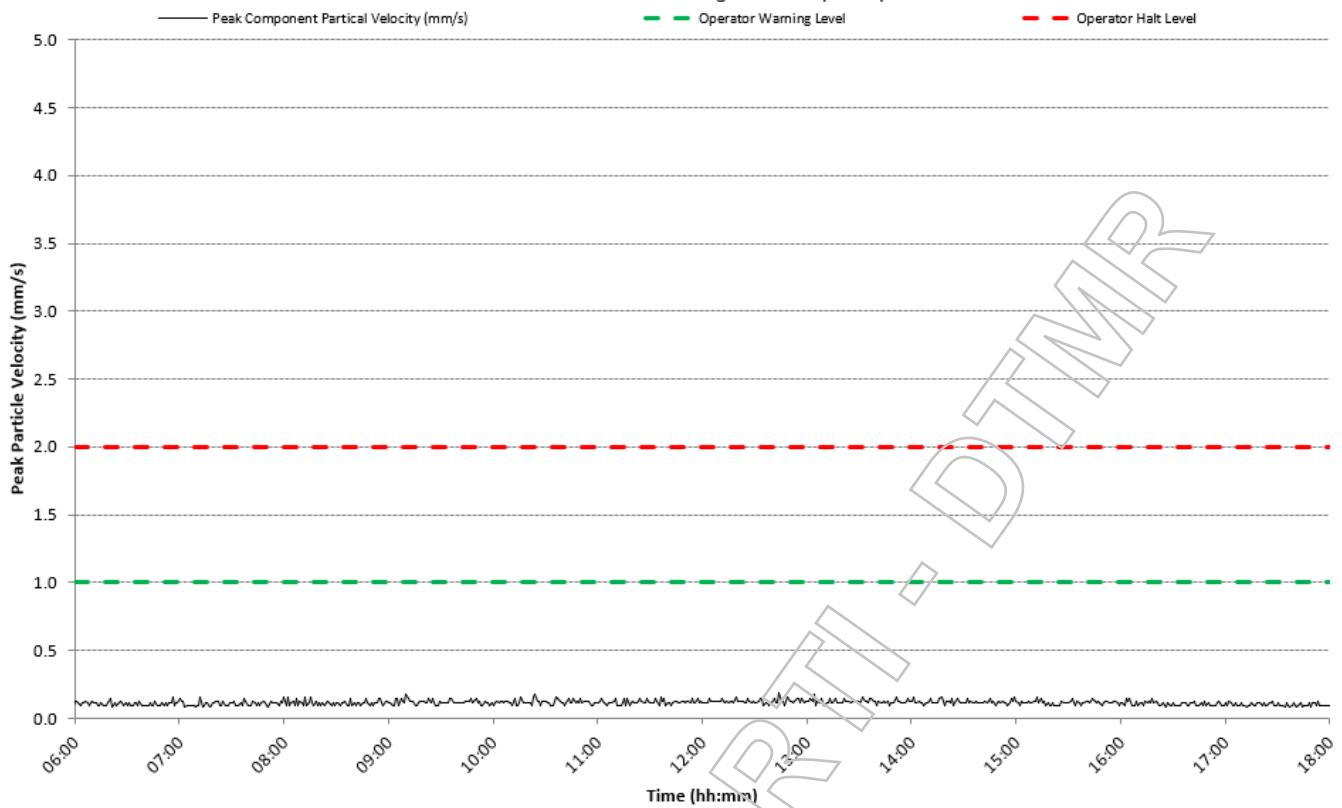


## 5 Location 17: 27 John Fisher Drive, Bracken Ridge



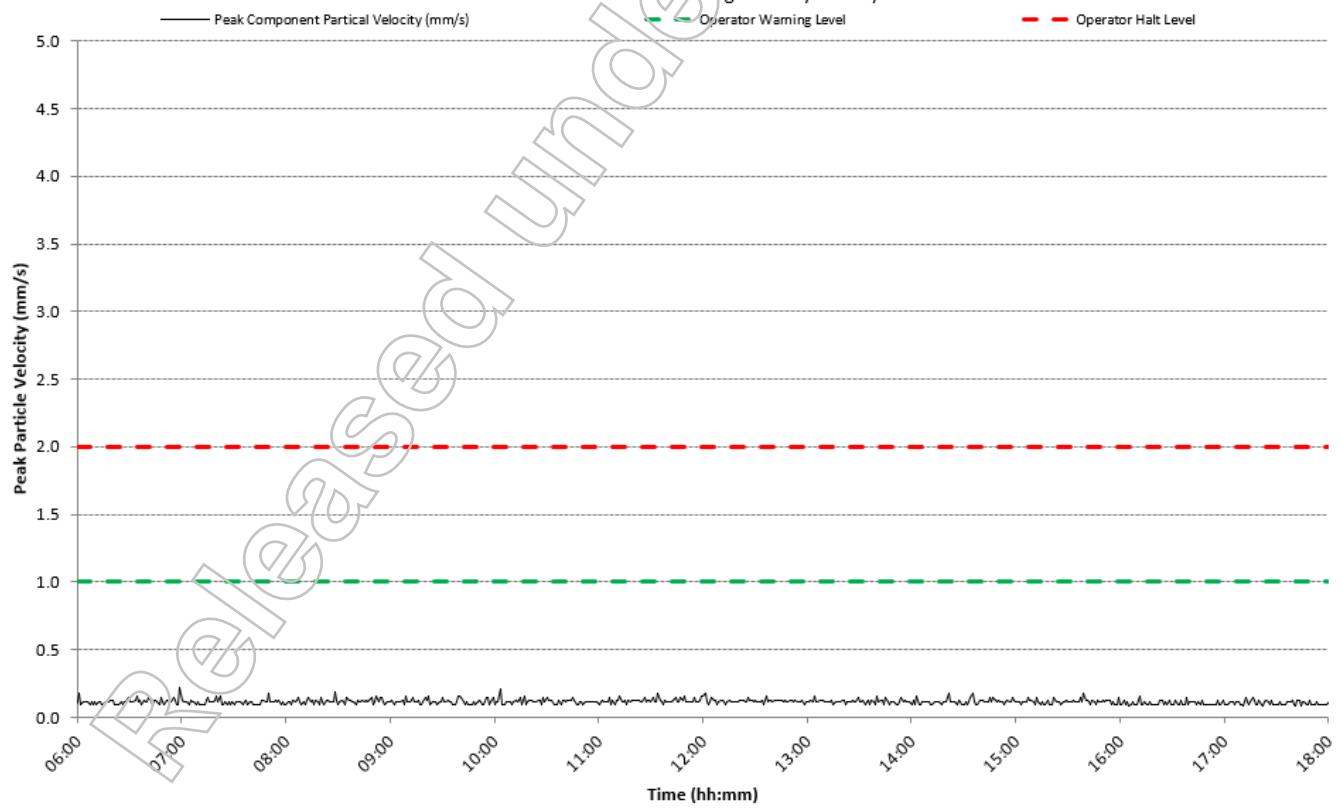
## Maximum Daily Vibration Levels

Location 17 - Saint John Fisher College - Thursday 9 May 2019



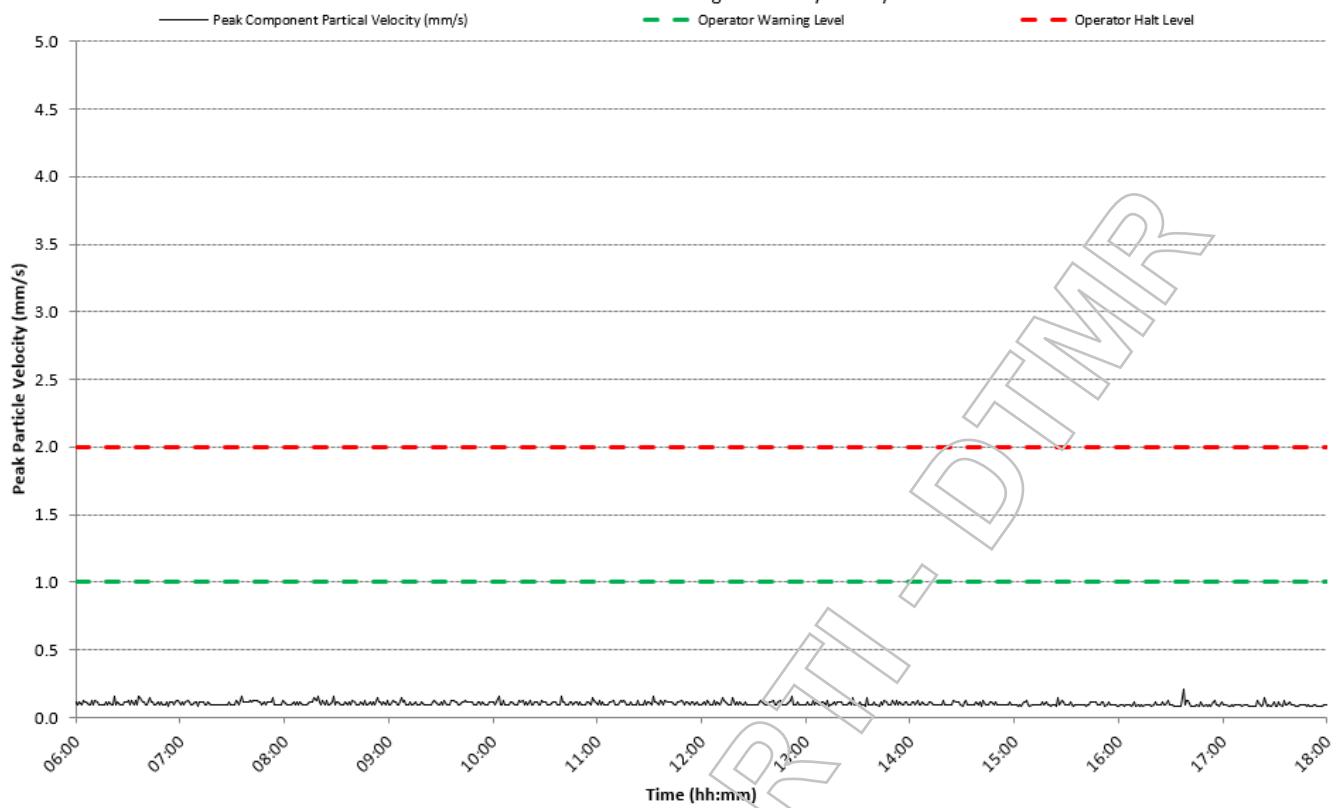
## Maximum Daily Vibration Levels

Location 17 - Saint John Fisher College - Friday 10 May 2019



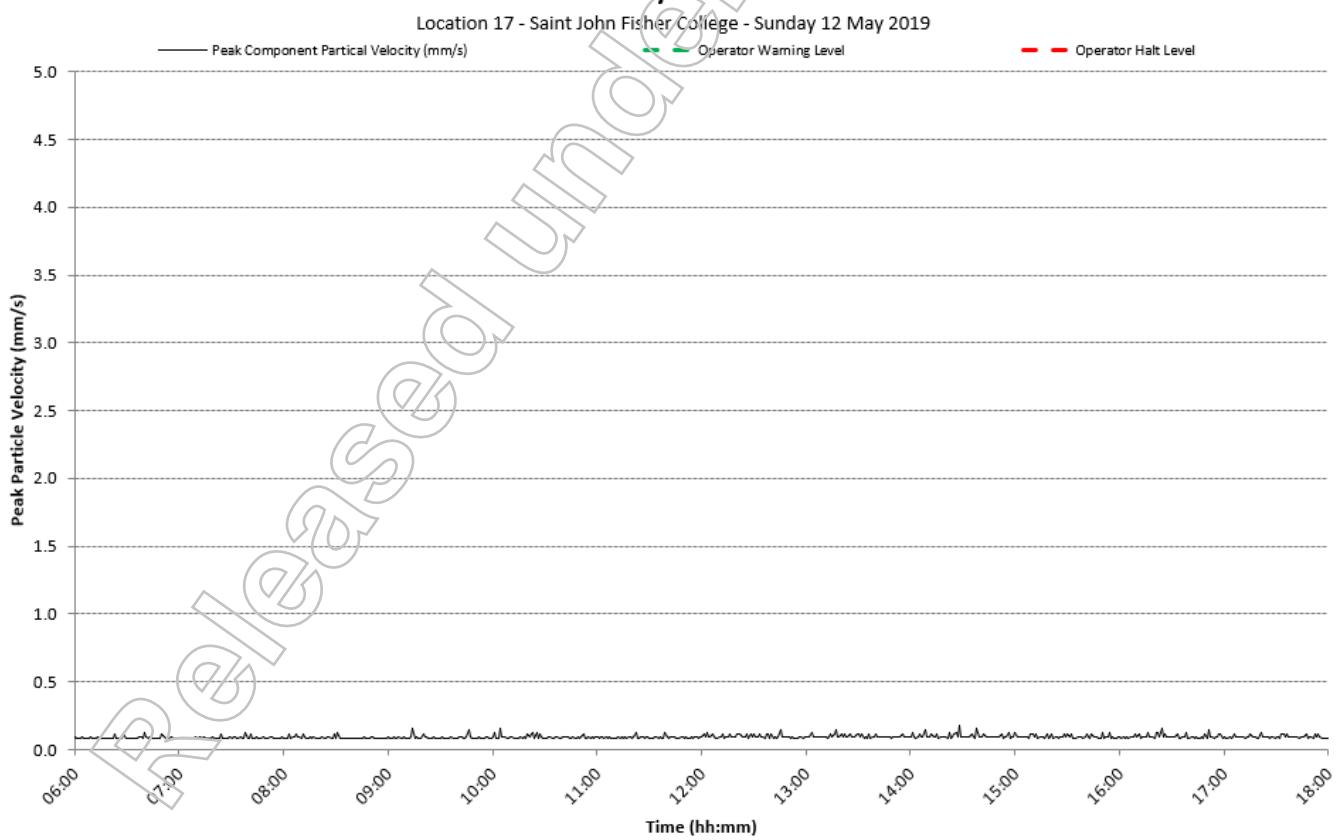
### Maximum Daily Vibration Levels

Location 17 - Saint John Fisher College - Saturday 11 May 2019



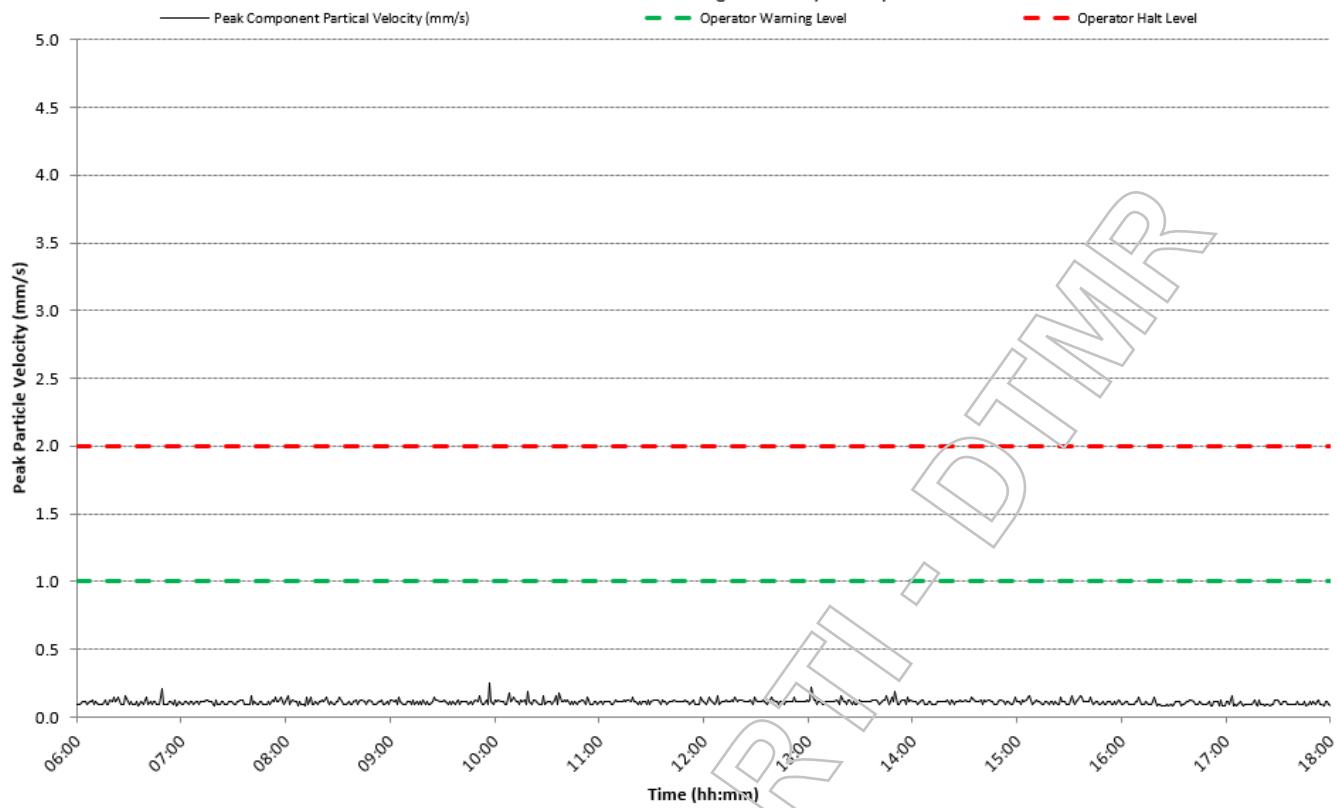
### Maximum Daily Vibration Levels

Location 17 - Saint John Fisher College - Sunday 12 May 2019



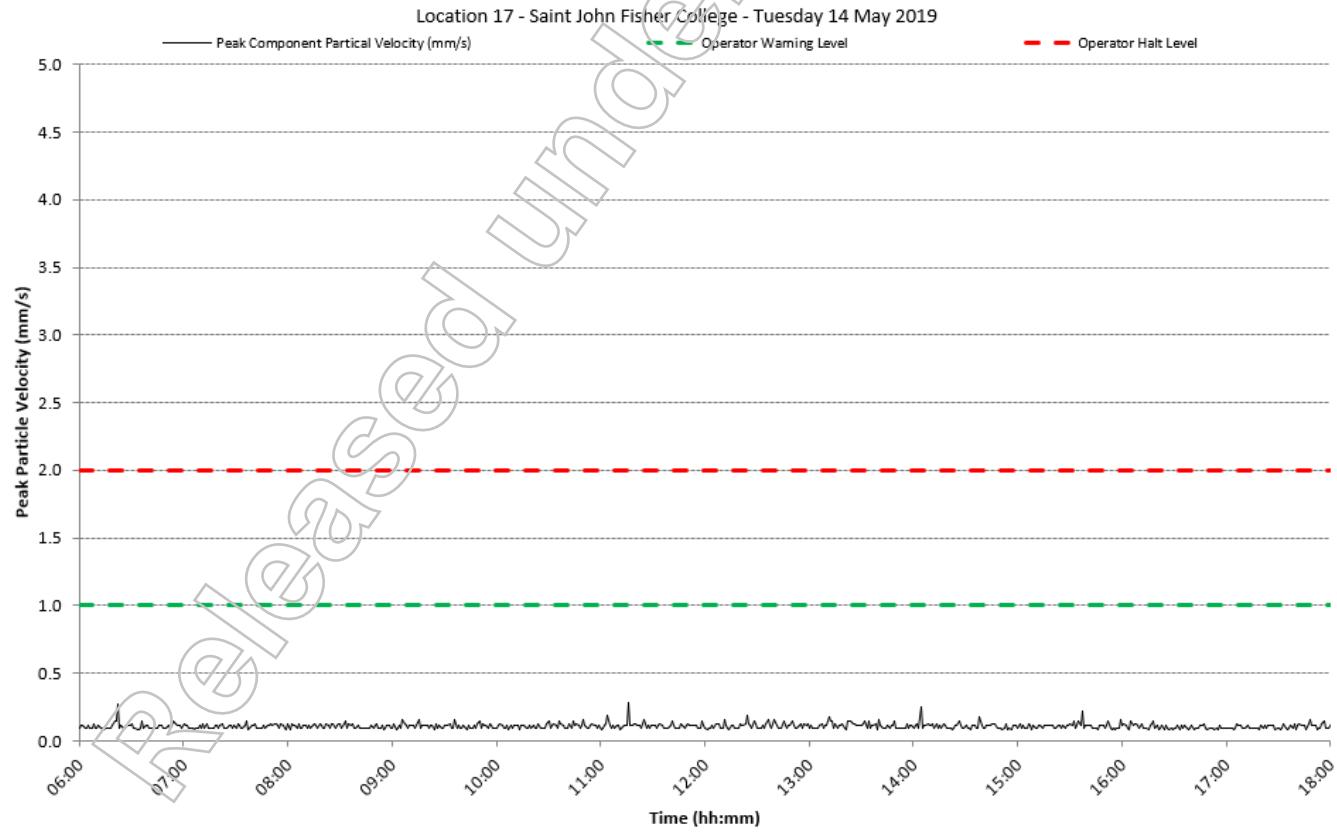
### Maximum Daily Vibration Levels

Location 17 - Saint John Fisher College - Monday 13 May 2019



### Maximum Daily Vibration Levels

Location 17 - Saint John Fisher College - Tuesday 14 May 2019



## ASIA PACIFIC OFFICES

### BRISBANE

Level 2, 15 Astor Terrace  
Spring Hill QLD 4000  
Australia  
T: +61 7 3858 4800  
F: +61 7 3858 4801

### CANBERRA

GPO 410  
Canberra ACT 2600  
Australia  
T: +61 2 6287 0800  
F: +61 2 9427 8200

### DARWIN

5 Foelsche Street  
Darwin NT 0800  
Australia  
T: +61 8 8998 0100  
F: +61 2 9427 8200

### GOLD COAST

Level 2, 194 Varsity Parade  
Varsity Lakes QLD 4227  
Australia  
M: +61 438 763 516

### MACKAY

21 River Street  
Mackay QLD 4740  
Australia  
T: +61 7 3181 3300

### MELBOURNE

Suite 2, 2 Domville Avenue  
Hawthorn VIC 3122  
Australia  
T: +61 3 9249 9400  
F: +61 3 9249 9499

### NEWCASTLE

10 Kings Road  
New Lambton NSW 2305  
Australia  
T: +61 2 4037 3200  
F: +61 2 4037 3201

### PERTH

Ground Floor, 503 Murray Street  
Perth WA 6000  
Australia  
T: +61 8 9422 5900  
F: +61 8 9422 5901

### SYDNEY

2 Lincoln Street  
Lane Cove NSW 2066  
Australia  
T: +61 2 9427 8100  
F: +61 2 9427 8200

### TOWNSVILLE

Level 1, 514 Sturt Street  
Townsville QLD 4810  
Australia  
T: +61 7 4722 8000  
F: +61 7 4722 8001

### TOWNSVILLE SOUTH

12 Cannon Street  
Townsville South QLD 4810  
Australia  
T: +61 7 4772 6500

### WOLLONGONG

Level 1, The Central Building  
UoW Innovation Campus  
North Wollongong NSW 2500  
Australia  
T: +61 404 939 922

### AUCKLAND

68 Beach Road  
Auckland 1010  
New Zealand  
T: +64 27 441 7849

### NELSON

6/A Cambridge Street  
Richmond, Nelson 7020  
New Zealand  
T: +64 274 898 628