

## **Opal Pty Ltd**

### Botany Paper Mill – EPL Compliance September -November 2025 Quarterly noise monitoring report



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**Opal Pty Ltd**  
**Botany Paper Mill - EPL Compliance**

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## Glossary

Acoustic and vibration related terms:

- **Acoustic Spectrum:** A representation of a sound sample (usually short term) of the amount of energy or sound level per frequency.
- **Ambient Noise:** Ambient noise encompasses all sound present in a given environment, being usually a composite of sounds from many sources near and far.
- **dB(A):** A unit of sound measurement which has frequency characteristics weighted so that it approximates the response of the human ear to sound waves
- **Heavy Vehicle:** A truck, transport or other vehicle with a gross vehicle weight above a specified level (for example: over 8 tonnes)
- **L<sub>A90</sub>:** Is the noise level that is exceeded 90 per cent of the measurement time. This parameter is commonly referred to as the background noise level
- **L<sub>Aeq</sub>:** Noise level that represents the energy average noise from the source during a specified time period, and is the equivalent continuous sound pressure level for a given period
- **L<sub>Aeq(15hr)</sub>:** The Leq noise level for the period from 7 am to 10 pm.
- **L<sub>Aeq(9hr)</sub>:** The Leq noise level for the period from 10 pm to 7 am.
- **NCA:** Noise Catchment Area. Grouping dwellings or receivers together in terms of similar noise environment.
- **Noise barrier:** Generally a wall or an earth mound that obstructs or restricts the passage of sounds waves from a noise source
- **Noise Logger:** A data logging (data and audio in some cases) which records noise. Usually used for unattended noise monitoring of background or ambient noise.
- **NML:** Noise Management Level as detailed in the NSW Interim Construction Noise Guideline. The NML is the noise goal for construction activities.
- **Octave Bands:** Sounds that contain energy over a wide range of frequencies are divided into sections called bands. A common standard division is in 10 octave bands identified by their center frequencies 31.5, 63, 250, 500, 1000, 2000, and 4000 Hz
- **RBL:** Rating Background Level is the overall single figure background level representing each assessment period over the whole monitoring period. The RBL is used for determining the appropriate construction noise criteria.
- **RNP:** Road Noise Policy (OEH, 2011)
- **Sound Level Meter:** An instrument consisting of a microphone, amplifier and data analysis package for quantifying and measuring noise.
- **Sound Power Level (L<sub>w</sub>):** Sound power level or acoustic power level is a logarithmic measure of the sound power in comparison to a specified reference level.
- **Sound Pressure Level (SPL or L<sub>p</sub>):** The level of noise, usually expressed in dB(A), as measured by a standard sound level meter.

# 1. Introduction

## 1.1 Background

OPAL operates a paper mill at its Botany site in Sydney, NSW. The paper mill is subject to operational noise conditions set out in the Ministers Conditions of Approval (MCoA) (including subsequent modifications) and the Environment Protection Licence (EPL) No. 1594.

As part of the EPL, a quarterly monitoring survey undertaken at receivers surrounding the site is to be prepared to demonstrate compliance with set noise limits. In addition to the monitoring survey results, Condition U1 of the EPL requires a summary of predicted noise levels from the validation noise model to be included in the quarterly monitoring report.

This report covers the September 2025 – November 2025 period. At the time of monitoring, the B9 paper machine was operating at normal production capacity. Validation modelling that covers normal production has been used to predict noise impacts from the Opal site and is confirmed in the Noise Model Validation Report (HW October 2022). There are no additional updates or changes to the site layout since the validation model was completed.

## 1.2 Objective

This report addresses operational licence conditions relating to measurements of the quarterly monitoring of the noise environment around the Opal site, i.e. Condition M6.1 and M6.2 of EPL 1594. These require:

- M6.1 The licensee must undertake noise monitoring at least once every three months to check compliance with the noise limits specified in Condition L4.1.
- M6.2 All monitoring required by this licence must be undertaken in accordance with Australian Standard 2659.1 – 1998: Guide to the use of sound measuring equipment – Portable sound level meters, or any revisions of that standard which may be made by Australian Standards Authority, and the compliance monitoring guidance provided in the NSW Industrial Noise Policy.

## 1.3 Operational noise limits

Operational noise limits for the new Opal Paper Mill are detailed in condition L4.1 of EPL 1594 and Condition 10 of the MCoA. These have been replicated in **Table 1**.

Since the inception of the monitoring program dating back to as early as 2012, the same receiver locations have been used. This last noise monitoring survey only had access to 5 locations with the residence located at R3 (Murrabin Avenue) no longer available for survey access.

**Table 1 Operational noise limits**

ID	Location	Day	Evening	Night	Night
		L <sub>Aeq,15min</sub> , dB(A)	L <sub>Aeq,15min</sub> , dB(A)	L <sub>Aeq,15min</sub> , dB(A)	L <sub>Amax</sub> , dB(A)
R1	Cnr McCauley Street & Australia Avenue	46	45	43	55
R2	Australia Avenue	45	45	43	55
R3*	Murrabin Avenue	46	45	43	55
R4*	Partanna Avenue	42	41	41	55
R5	Corner of Partanna and Moorina Avenues	42	42	39	55
R6	Moorina Avenue	43	43	39	55

ID	Location	Day L <sub>Aeq,15min</sub> dB(A)	Evening L <sub>Aeq,15min</sub> dB(A)	Night L <sub>Aeq,15min</sub> dB(A)	Night L <sub>Amax</sub> dB(A)
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\*Receiver locations no longer accessible

Regular quarterly monitoring surveys have demonstrated that direct measurement of Opal’s contribution to the noise environment is not possible because noise emissions from the site are generally lower than the ambient measured L<sub>Aeq</sub> noise levels, which masks the actual noise from the Opal site.

Ambient noise levels measured at the receiver locations using the L<sub>Aeq</sub> noise parameter are therefore not a true representation of noise from the Opal site but a combination of influences from all local noise sources.

The influence from Opal on the local noise environment may be better described using the L<sub>A90</sub> statistical parameter. This additional parameter has been presented in the results summary to be considered in conjunction with the L<sub>Aeq</sub> noise level when assessing compliance of the Opal site.

During the night periods fewer extraneous noise influences are present providing lower overall noise levels in the area. Under these conditions constant noise sources such as Opal operations are more likely to be apparent in the background noise levels noting that the emission levels from the site remain relatively constant throughout the day, evening, and night.

Maximum noise levels from the site are also captured under the EPL requiring a limit to L<sub>Amax</sub> noise emissions of 55 dB(A) at all locations during the night period. An L<sub>Amax</sub> parameter for the monitoring period simply records the loudest noise level measured during the night assessment period and does not distinguish the source of noise.

Maximum noise events are not generally observed from the Opal site unless equipment has broken down or maintenance activities are underway and neither of these scenarios reflect normal operation of the plant.

Maximum noise levels recorded during these surveys are, therefore, more representative of the broader noise environment which makes the distinction between external sources and Opal’s emissions difficult. Furthermore, maximum noise levels measured during the monitoring surveys often, if not always, exceed the maximum noise limit from the site hindering the identification of Opal’s contribution.

The addition of the L<sub>A1</sub> noise level statistic is proposed in conjunction with the L<sub>Amax</sub> parameter to compliment the maximum noise profile and provide a better representation of environmental noise influences.

An L<sub>A1</sub> noise level above the night criteria would not necessarily indicate an exceedance of the Opal noise goals however, long term measurements of this parameter may be useful in identifying changes to the local noise profile, which can then be compared to any changes in functional operation within the Opal site.

## 2. Existing environment

The site is located on the boundary of an industrial area around Port Botany and is bordered to the north and east of the site by residential properties as illustrated in Figure 2-1. The local noise environment beyond the Opal boundary varies throughout the day depending on the contribution of sources including trucks on Botany Road, aircraft, port noise, local business activities on McCauley Road, and local traffic movements.

Noise emissions from the paper mill do not vary significantly as the operation of the plant has been demonstrated to be consistent and reliable.

The source of maximum noise level events in the area are typically from the local road network and aircraft fly-overs. The nature of the processes within the Opal site means that there are typically no maximum noise level events associated with production activities. The exception to this may occur when equipment is not functioning properly during a breakdown or during maintenance activities, both of which are not common scenarios.

The influence of weather conditions on noise levels are apparent as seasonal variations which form data trends in the long-term monitoring for the local area.

### 2.1 Receiver locations

The EPL specifies six locations for quarterly monitoring. These are illustrated in Figure 2-1 and described further in **Table 2**. The receiver locations traditionally monitored at R3 and R4 are not currently being monitored due to access restrictions.

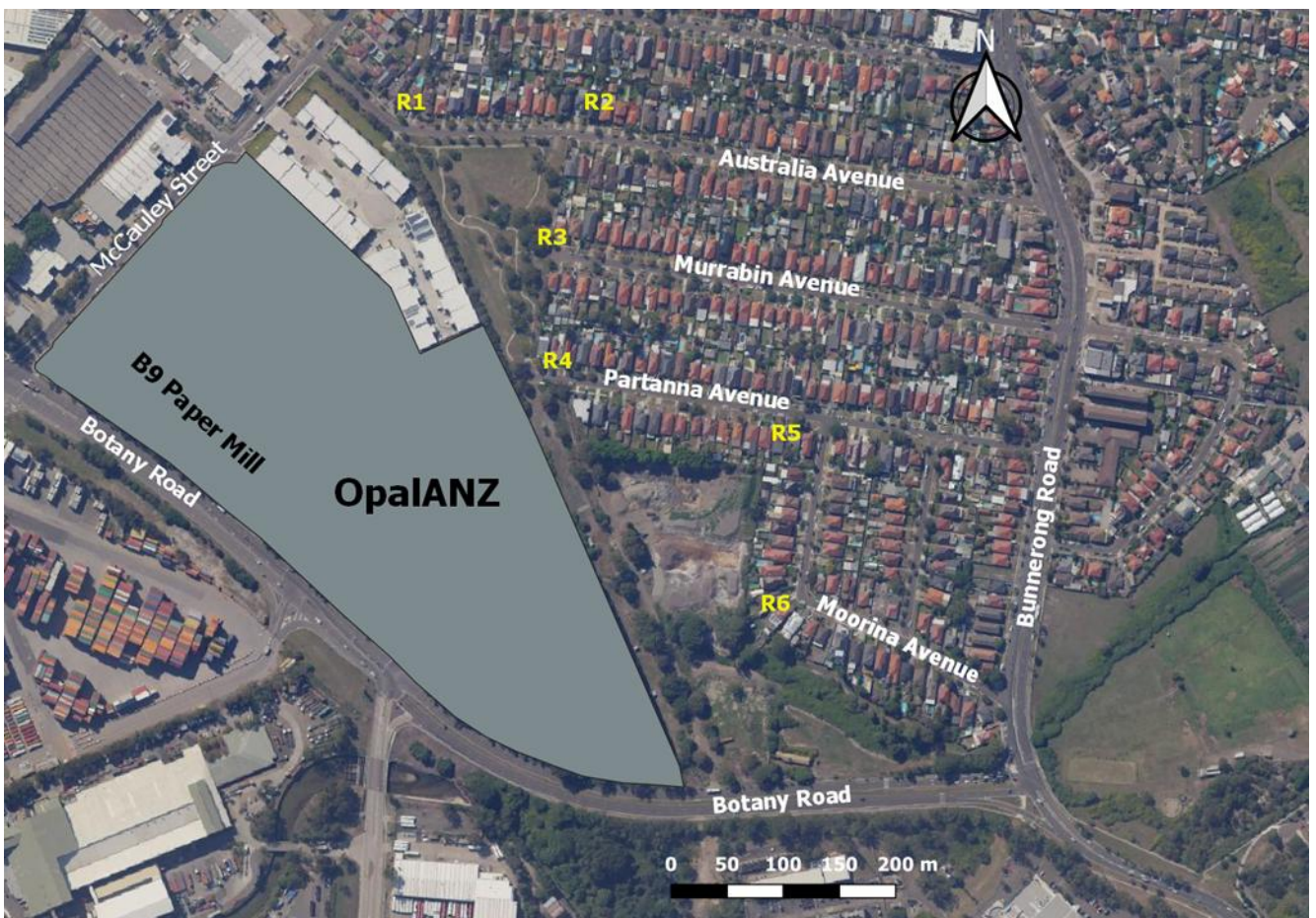


Figure 2-1 Site location and compliance monitoring locations

**Table 2 Description of monitoring locations**

Monitoring location	Description
R1	This location has a large degree of acoustic shielding from local noise sources due to the development of a warehousing facility on the corner of McCauley Avenue and Australia Avenue. The noise environment at this location is heavily influenced by traffic on McCauley Street, Perry Street and Beauchamp Road. Local industrial noise from Raymond Avenue is also audible during the day and night.
R2	This receiver is located opposite the bottom apex of the Purcell Park on Australia Avenue. At this location the residents have a clear line of sight to the paper mill. Noise walls have less effectiveness for the residences due to the large separation distances. Noise from port activities also has less shielding from the Opal site. Background noise levels are heavily dominated by road traffic noise from all sources.
R3*	This receiver is located adjacent to Purcell Park on Murrabin Avenue. At this location the residents have a partial line of sight to the paper mill although they are located closer to the boundary noise wall than receivers at R2. Noise from port activities are partially shielded by the Opal site. Background noise levels are heavily dominated by road traffic, aircraft and industrial noise from all surrounding sources.
R4*	The receivers at Partanna Avenue are physically closest to the Opal site but have the benefit of significant shielding of operational activities from the noise barrier located on the northern boundary. Road traffic noise contributes to background noise for this receiver. Some construction work was in progress at the park adjacent to the property during the monitoring period.
R5	Furthest location from the Opal site, a higher degree of influence from Botany Road, Bunnerong Road and the port. Noise from the Opal site is generally inaudible at this location although significant noise from the Opal site has been observed here during adverse meteorological conditions.
R6	In this location receivers are well shielded from operational noise from the Opal site due to the presence of the noise barrier and No. 8 paper machine building. Noise levels at this location are heavily influenced by local bird colonies, port noise, traffic on Botany road and traffic on Bunnerong Road.  Construction of industrial units on the adjacent vacant land (Hanger block) is well underway at the time of writing this report.

\*Receiver locations currently unavailable

## 2.2 Monitoring limitations

The local noise environment has been a feature of the area for many years and the total measured noise levels at monitoring locations are only partly due to Opal site operations. Direct monitoring of Opal noise emissions at the nominated receiver locations over time has demonstrated that specific contribution from Opal cannot be provided with any certainty due to the influence of other audible noise sources adjacent to the site.

Using intermediate monitoring locations to determine Opal’s contribution is not a practical option for determining compliance. This is primarily due to the influence of the existing local noise environment, the shielding from Opal’s boundary noise walls and the proximity of the receiver locations, some of which are already within 40 metres of the site boundary.

To provide more detail on the compliance monitoring, EPL 1594 has been updated to include Condition U1 with the requirement to incorporate modelling outcomes in the quarterly compliance reports. The predicted noise levels from validated noise modelling are used to compare the measured ambient noise levels.

Long term monitoring indicates that there is a strong correlation with the measured RBL and the predicted  $L_{Aeq, 15\ min}$  noise levels for the EPL receiver locations. Information on the current noise model and predicted noise levels at the nearest receiver locations is presented in Section 3.2.

### 3. Operational noise

#### 3.1 Noise monitoring

Noise monitoring for this monitoring report was completed between 25<sup>th</sup> of November to the 3<sup>rd</sup> of December 2025, using automatic noise loggers deployed at four representative locations.

Monitoring was performed using Acoustic Research Laboratories Ngara Type 1 noise loggers, set to A-weighting, fast-response, and recording noise levels continuously over consecutive periods at each location. This survey period coincided with typical continuous operations of paper mill.

Weather data obtained from the Automatic Weather Station (AWS) maintained by the Bureau of Meteorology at Sydney Airport. Weather conditions for the monitoring period have been plotted showing trends in wind direction and speed which are presented in Figure 3-1.

#### 3.2 Noise modelling

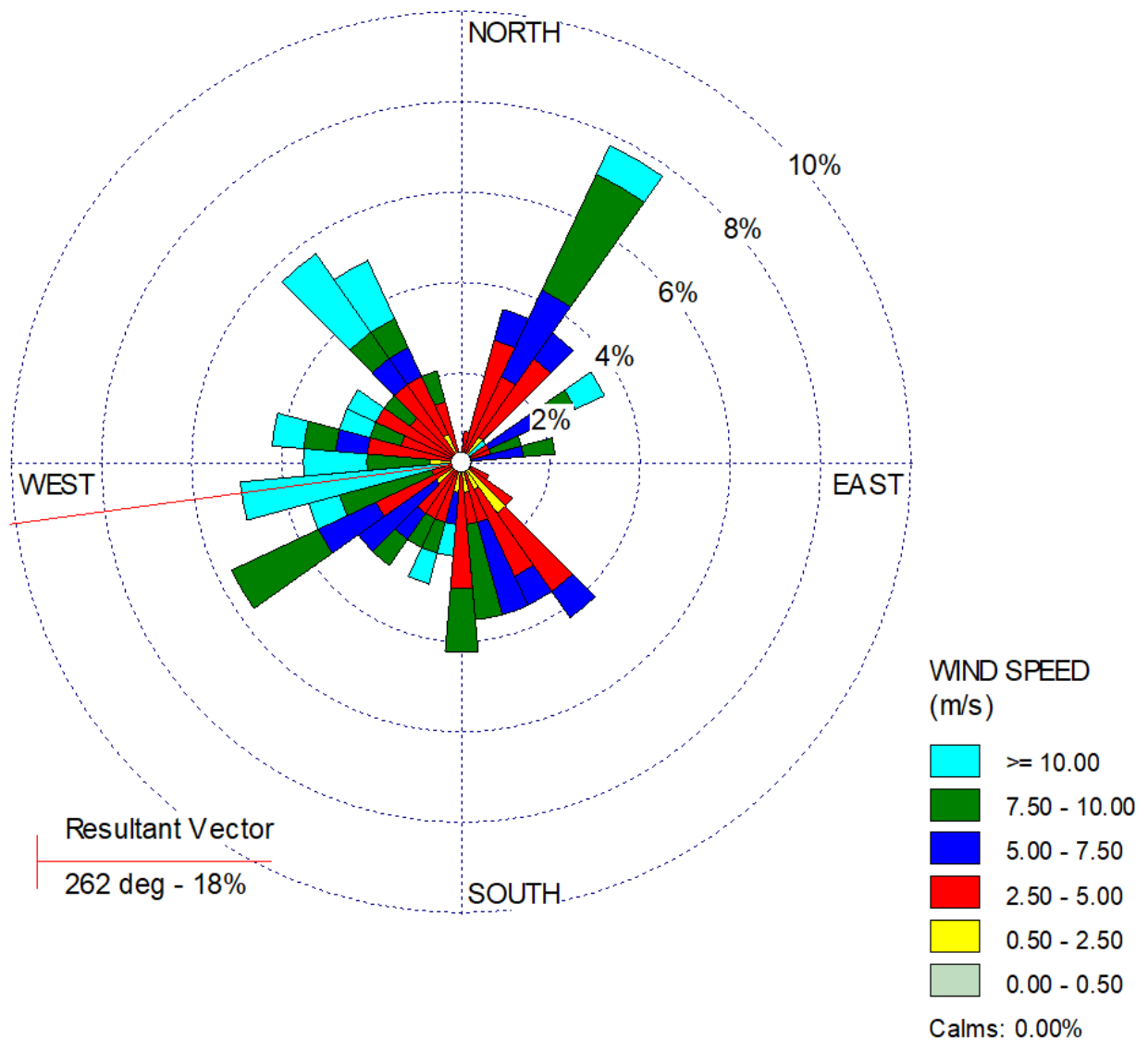
A noise model for the Opal site was developed in 2014 to predict noise emissions at receiver locations adjacent to the paper mill. This noise model has been updated in 2022 as the result of changes to the site layout and additional infrastructure projects over the intervening years.

The noise model was calibrated by internal site measurements and external noise monitoring correlation and is to be used as an aid to the quarterly monitoring surveys, specifically to verify the conclusions of the monitoring survey compared to the EPL criteria in Table 1.

Since the validation of the noise model there have been no changes to the site operations or noise sources included in the noise model. Ongoing development within the site will be captured in the noise model to reflect these changes in the noise emission profile of the Opal operations as necessary.

**Table 3 Predicted noise levels at monitoring locations**

ID	Location	EPL Noise Goals dB(A)		Predicted Noise Levels dB(A)	
		Night		Night	
		LAeq 15 Min	LAmx	LAeq 15 Min	LAmx
R1	Corner of McCauley Street and Australia Avenue	43	55	38	46 - 48
R2	Australia Avenue	43	55	39	47 - 49
R3	Murrabin Avenue	43	55	40	48 -50
R4	Partanna Avenue (Most affected façade)	41	55	40	48 -50
R5	Corner of Partanna Avenue and Moorina Avenue	39	55	37	42 -44
R6	Moorina Avenue	39	55	35	44 - 46

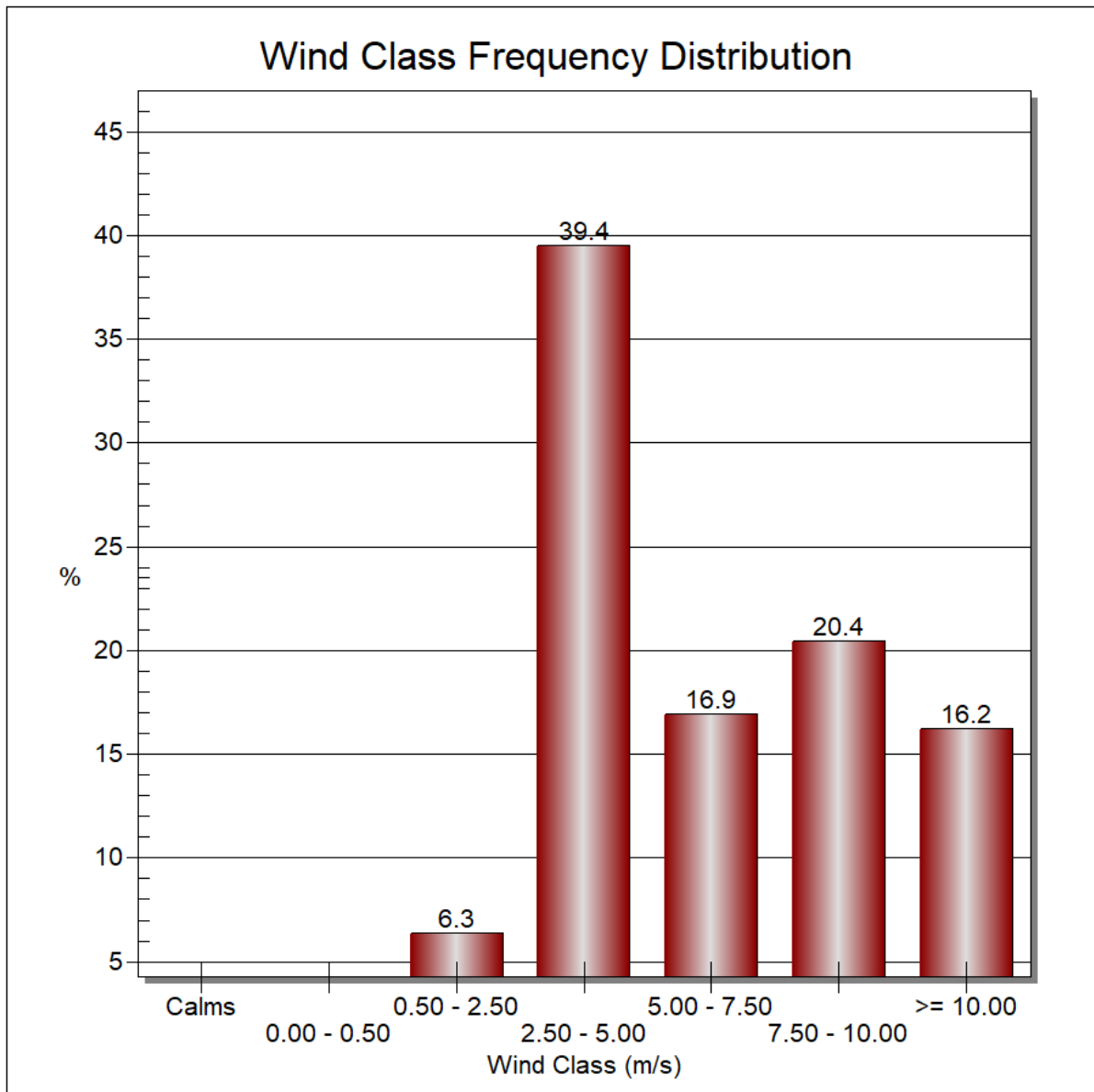


**Figure 3-1 Wind speed and direction during monitoring period (25<sup>th</sup> November– 3<sup>rd</sup> of December 2025, source BoM 2025)**

The wind rose data indicates that wind speeds between about 2.5 m/s up to 10 m/s were concentrated in the south and west present for about 56% of the monitoring period. Wind speeds between 0.5 and 2.5 m/s occurred for around 44% of the time with the 5.0 to 7.5 m/s band accounting for around 16% of the wind speeds.

Resultant winds generally from a westerly direction would tend to enhance noise emissions from the Opal site for receivers in the east with the south westerly components enhancing noise emissions to receivers in Australia Avenue and Murrabin Avenue. For wind originating from a south westerly direction, noise from Port Botany and Botany Road would be more apparent for residences north of Botany Road.

A graph of the wind speed frequency during the monitoring period is presented in Figure 3-2.



**Figure 3-2 Wind speed frequency distribution over monitoring period –25<sup>th</sup> November– 3<sup>rd</sup> of December 2025, source BoM 2025**

The reported  $L_{Amax}$ ,  $L_{A1}$ ,  $L_{Aeq}$ , and  $L_{A90}$  noise levels are summarised from a 24 hour period of monitoring and the resultant values are representative of all noise sources in the local area such as road traffic, loud short-term noise (birds, people, equipment), aircraft, and local industry and heavy vehicle movements.

During the 2025 noise survey, the paper mill operated normally, with no reported activities that would generate higher than normal  $L_{Amax}$  noise events during the monitoring.

Night-time periods were assessed to provide additional information of the paper mill noise contributions using the median  $L_{A90}$  noise levels as a benchmark as rating background noise levels provide a good proxy for  $L_{Aeq}$  levels from steady state noise emitters.

Measured LAeq noise levels for the night-time period during the this monitoring period 2025 monitoring survey are consistent with LAeq noise levels measured over the long-term data series and the LA90 measured noise levels were marginally higher than the typical data range when compared to similar times of the year.

Measured LA90 night noise levels, used as an indicator of continuous industrial noise sources, were in a very tight for all sites between 35 – 45 dB(A).

The most recent round of compliance measurements has been added to the historical data collected during compliance noise surveys, providing about 13 years of seasonal data. This data includes measurements of the noise environment with the Opal site operational over the monitoring period.

The results of the monitoring survey for this period [have](#) been graphed and are shown in Appendix A. The parameters of LAeq and LA90 presented in Table 4 are used to provide information for comparison against the project criteria and the background noise environment.

The data in Figure 3-3 and

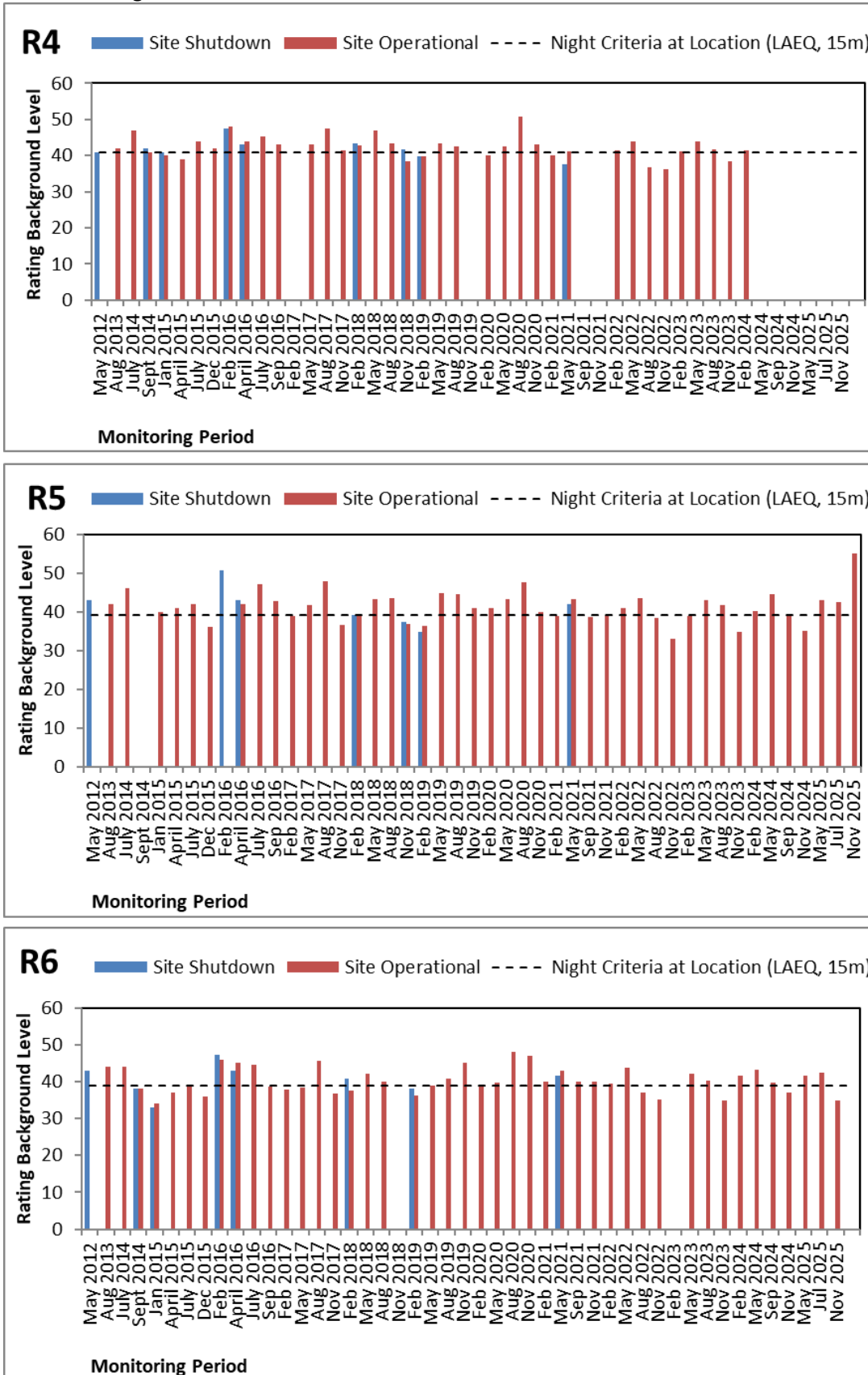


Figure 3-4 provides a chronological progression of the measured noise levels during shutdown and normal operations summarised for monitoring from 2012 to present.

Historical background noise levels from Figure 3-3 and

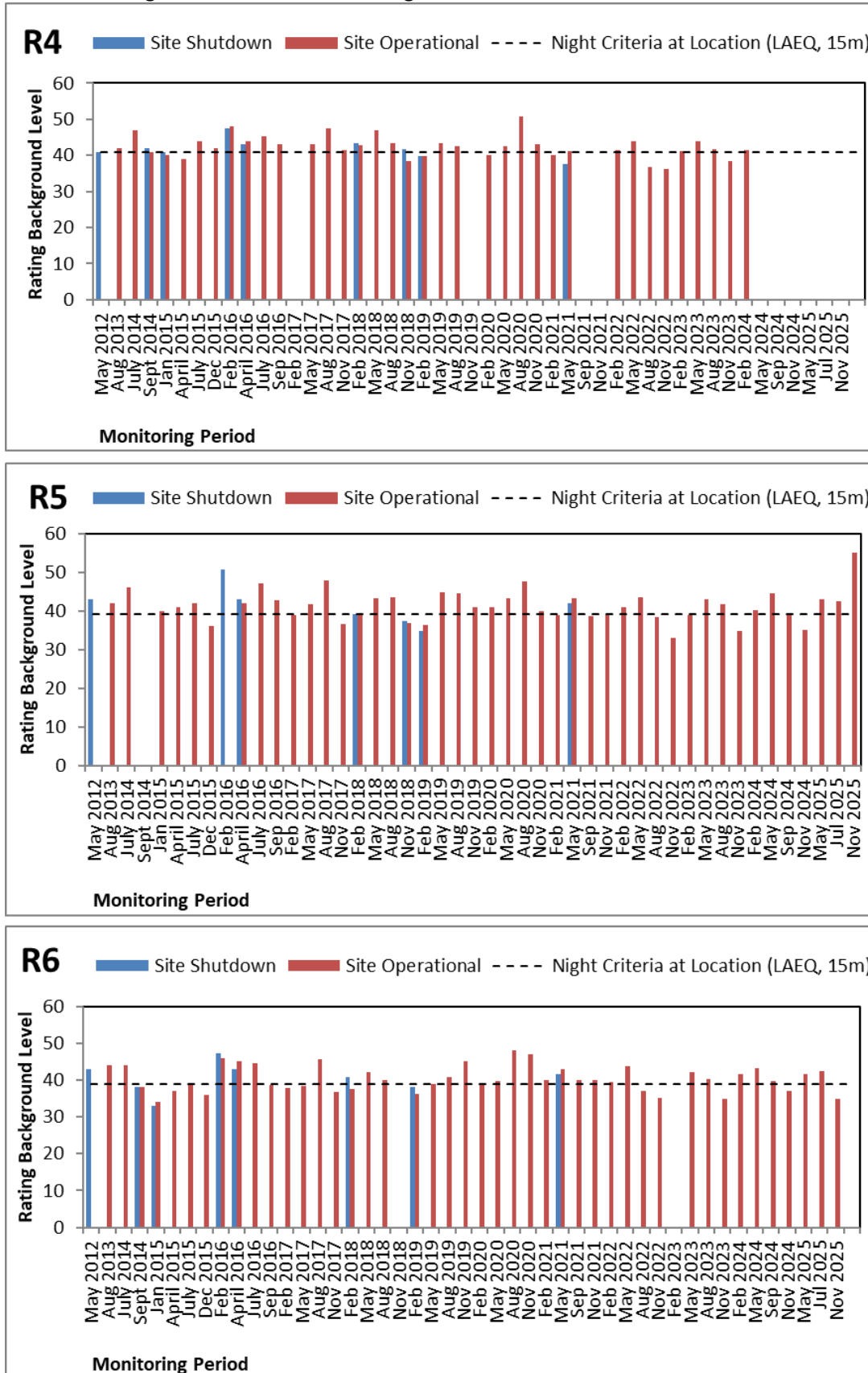


Figure 3-4 are not directly related to the LAeq criteria from the EPL; however, they provide an indication of the increase in background environmental noise levels corresponding to the regular noise surveys undertaken for the Opal site.

Figure 3-5 presents the long term median LA1 noise levels for each of the monitoring locations. The data for shut down and operational periods from previous monitoring surveys are graphed with the most recent monitoring data shown in comparison.

The LAmax noise levels for this monitoring period are generally lower than the long-term median levels but consistent with previously surveyed data. Measured LA1 noise levels during the monitoring periods indicate a tight noise range between 79 and 60 dB(A). These levels are higher than the project LAmax noise goals but are not expected to be related to the operation of the Opal site.

**Table 4 Summary of noise monitoring**

Time and date	Profile of Noise Environment - Noise Monitoring Location											
	R1		R2		R3		R4		R5		R6	
	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>
<b>Daytime: 7:00:00 AM to 6:00:00 PM</b>												
Wednesday 26 November 2025	42	55	40	68	-	-	-	-	47	68	41	64
Thursday 27 November 2025	42	54	45	51	-	-	-	-	52	59	43	53
Friday 28 November 2025	44	56	39	53	-	-	-	-	48	51	41	52
Saturday 29 November 2025	41	52	44	53	-	-	-	-	47	54	46	56
Sunday 30 November 2025	45	54	36	52	-	-	-	-	52	61	40	52
Monday 1 December 2025	37	52	41	52	-	-	-	-	50	54	41	51
Tuesday 2 December 2025	43	51	46	51	-	-	-	-	50	55	46	52
Wednesday 3 December 2025	46	55	38	54	-	-	-	-	42	51	40	51
<b>Median</b>	<b>42</b>	<b>54</b>	<b>40</b>	<b>53</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>48</b>	<b>54</b>	<b>41</b>	<b>52</b>
<b>Evening: 6:00:00 PM to 10:00:00 PM</b>												
Wednesday 26 November 2025	44	50	60	48	-	-	-	-	48	50	43	51
Thursday 27 November 2025	45	50	58	50	-	-	-	-	48	48	44	53
Friday 28 November 2025	45	53	63	53	-	-	-	-	50	52	45	52
Saturday 29 November 2025	43	50	62	50	-	-	-	-	46	54	43	51
Sunday 30 November 2025	44	51	61	49	-	-	-	-	48	50	42	50
Monday 1 December 2025	45	50	63	49	-	-	-	-	48	51	44	49
Tuesday 2 December 2025	45	52	59	49	-	-	-	-	49	55	40	48
Wednesday 3 December 2025	43	55	60	52	-	-	-	-	41	45	44	51
<b>Median</b>	<b>45</b>	<b>51</b>	<b>60</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>48</b>	<b>51</b>	<b>43</b>	<b>51</b>

Night 10:00:00 PM to 7:00:00 AM	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>	L <sub>90</sub> (10th Percentile)	L <sub>Aeq</sub>
Wednesday 26 November 2025	41	47	40	47	-	-	-	-	56	50	37	46
Thursday 27 November 2025	38	43	37	48	-	-	-	-	55	45	35	45
Friday 28 November 2025	38	46	38	48	-	-	-	-	54	45	34	43
Saturday 29 November 2025	36	44	33	44	-	-	-	-	56	48	35	45
Sunday 30 November 2025	38	45	35	44	-	-	-	-	49	42	36	44
Monday 1 December 2025	39	47	40	46	-	-	-	-	55	47	43	48
Tuesday 2 December 2025	43	48	45	49	-	-	-	-	55	50	34	43
Wednesday 3 December 2025	38	45	38	46	-	-	-	-	59	49	35	43
<b>Median</b>	<b>45</b>	<b>51</b>	<b>38</b>	<b>47</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>55</b>	<b>47</b>	<b>35</b>	<b>45</b>

Table 5 Summary of night maximum and LA1 noise levels

Time and date	Maximum Noise Environment - Noise Monitoring Location											
	R1		R2		R3		R4		R5		R6	
Date	L <sub>Amax</sub>	L <sub>A1</sub>	L <sub>Amax</sub>	L <sub>A1</sub>	L <sub>Amax</sub>	L <sub>A1</sub>	L <sub>Amax</sub>	L <sub>A1</sub>	L <sub>Amax</sub>	L <sub>A1</sub>	L <sub>Amax</sub>	L <sub>A1</sub>
Wednesday 26 November 2025	73	62	78	62	-	-	-	-	80	73	73	68
Thursday 27 November 2025	71	60	75	71	-	-	-	-	79	65	75	60
Friday 28 November 2025	76	63	80	73	-	-	-	-	78	64	71	63
Saturday 29 November 2025	76	68	80	60	-	-	-	-	80	70	73	66
Sunday 30 November 2025	79	64	75	62	-	-	-	-	74	61	80	57
Monday 1 December 2025	81	68	73	63	-	-	-	-	87	63	74	58
Tuesday 2 December 2025	75	63	78	62	-	-	-	-	76	61	74	60
Wednesday 3 December 2025	75	62	76	62	-	-	-	-	89	72	73	57
<b>Median</b>	<b>75</b>	<b>63</b>	<b>77</b>	<b>62</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>79</b>	<b>65</b>	<b>74</b>	<b>60</b>

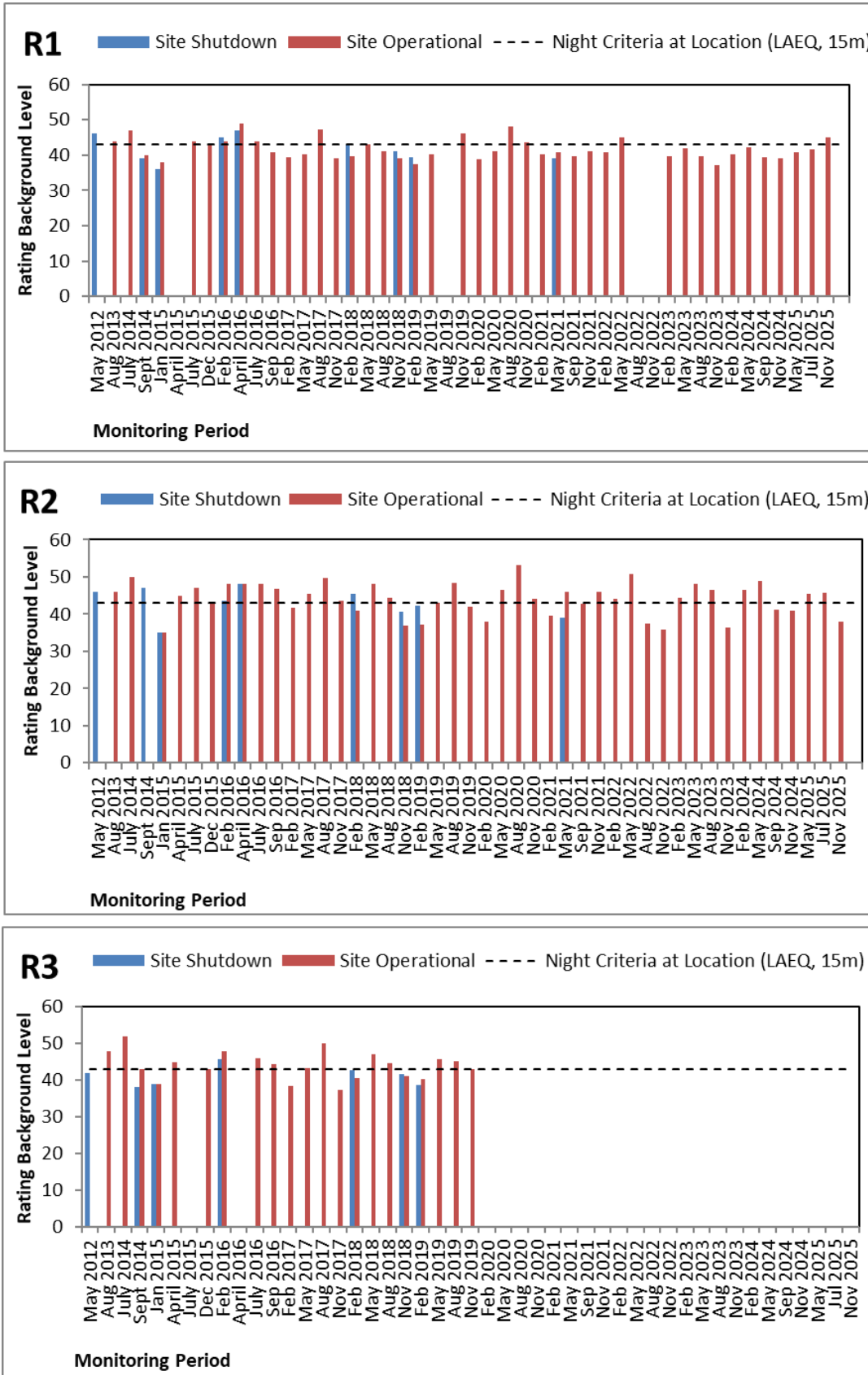


Figure 3-3: Comparison of background noise levels at R1 – R3

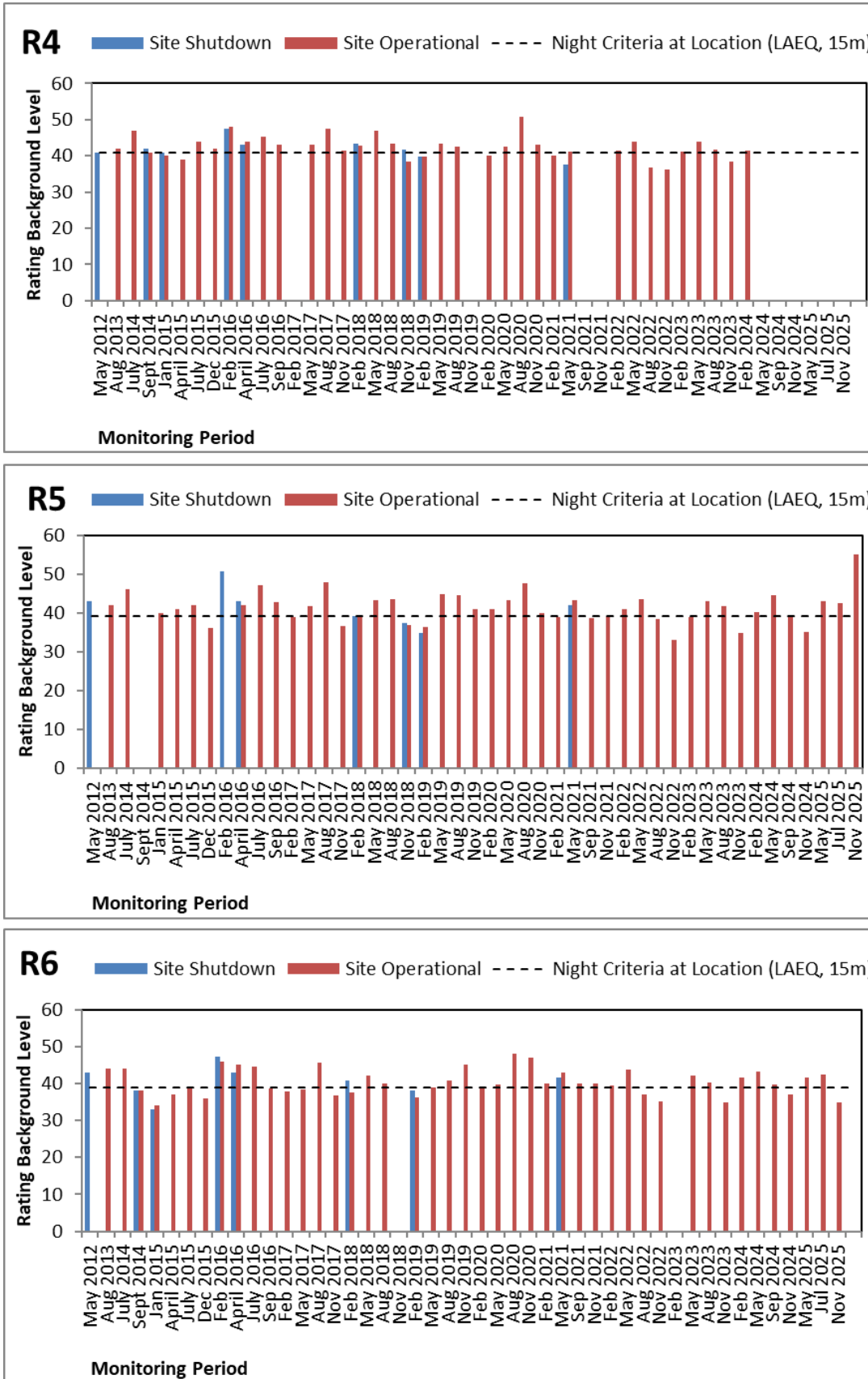


Figure 3-4: Comparison of background noise levels at R4 – R6

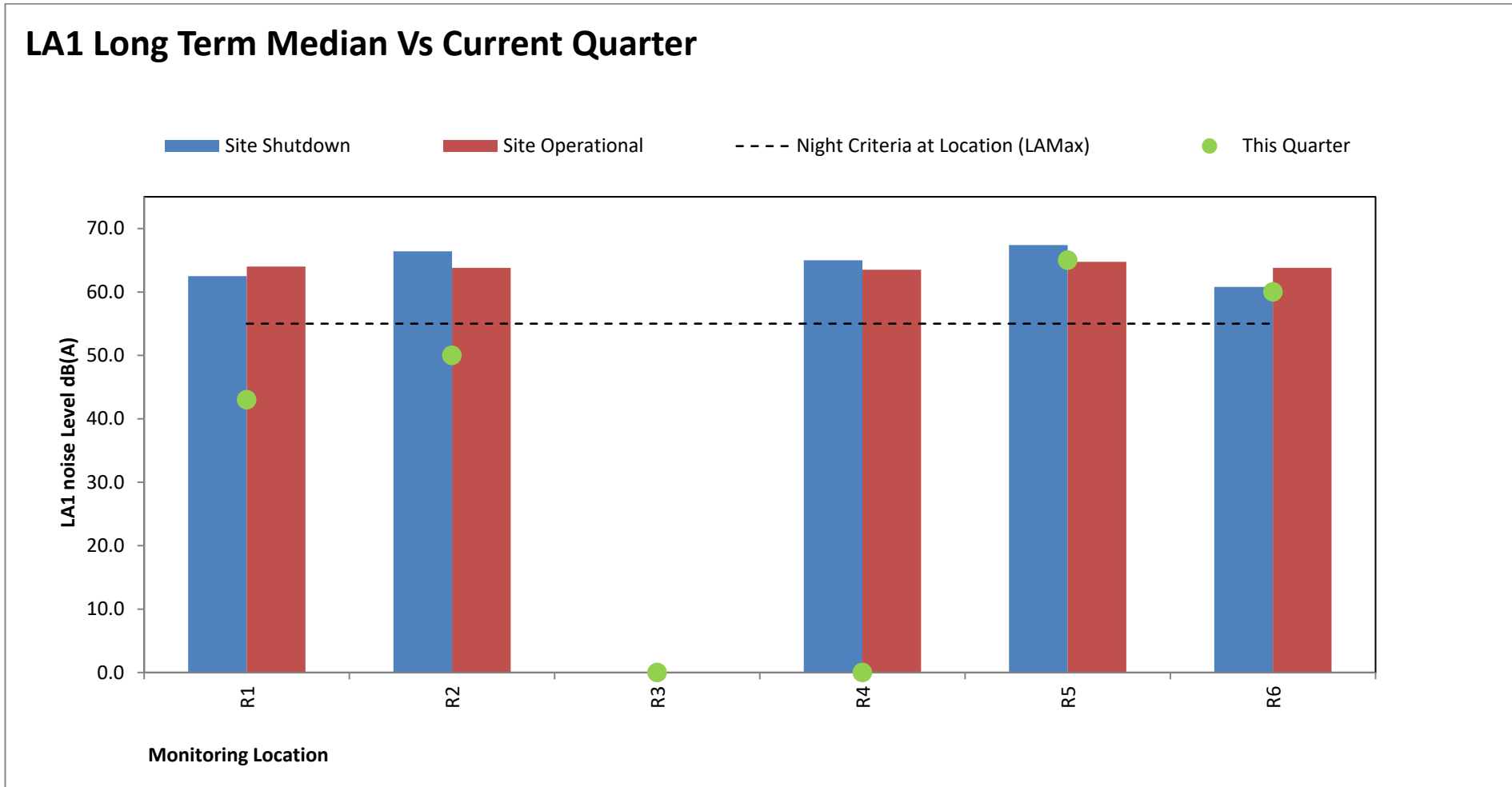


Figure 3-5: Long term LA1 noise levels at R1 – R6

## 4. Summary

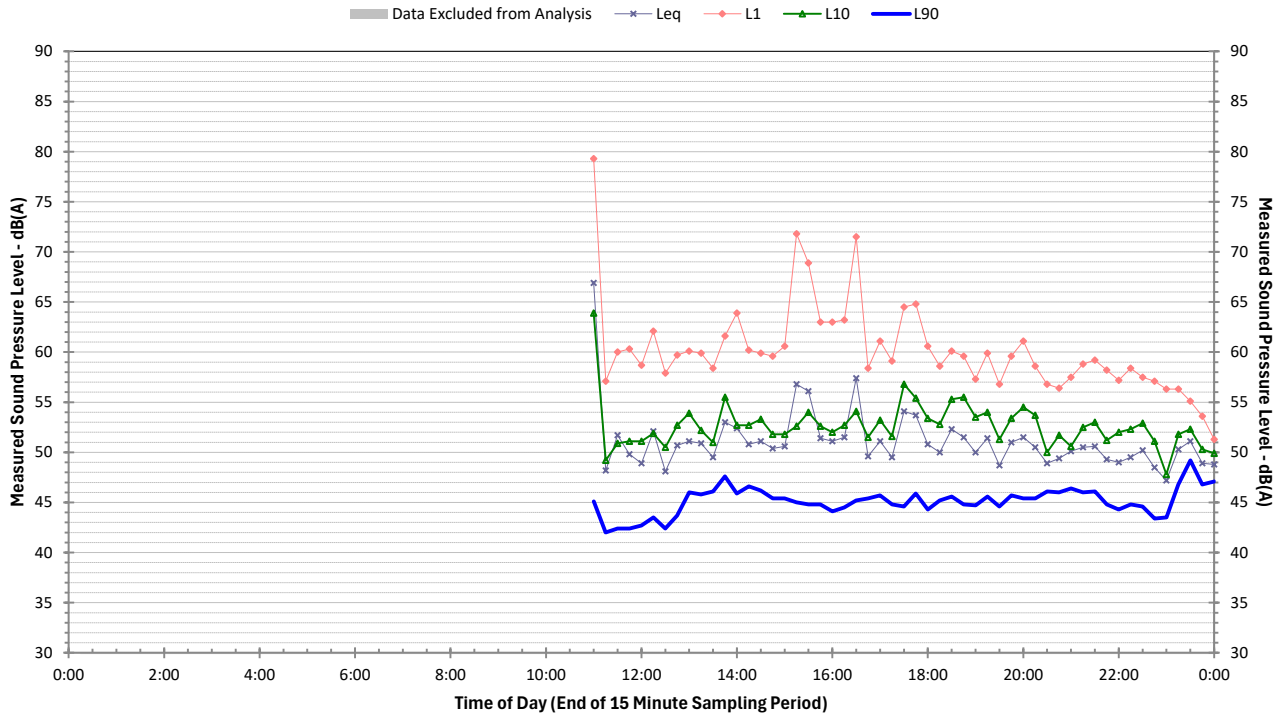
The noise survey data for the September 2025 – December 2025 period indicates that the  $L_{Aeq}$  long term measured noise levels in the vicinity of the paper mill exceeded the EPL criteria for day, evening, and night-time. The maximum ( $L_{A1}$ ) recorded noise levels at each monitoring location averaged between about 60-65 dB(A), which also exceeded the EPL criteria of 55 dB(A)  $L_{Amax}$  at all receiver locations.

In summary the following conclusions have been drawn from the latest quarterly monitoring data:

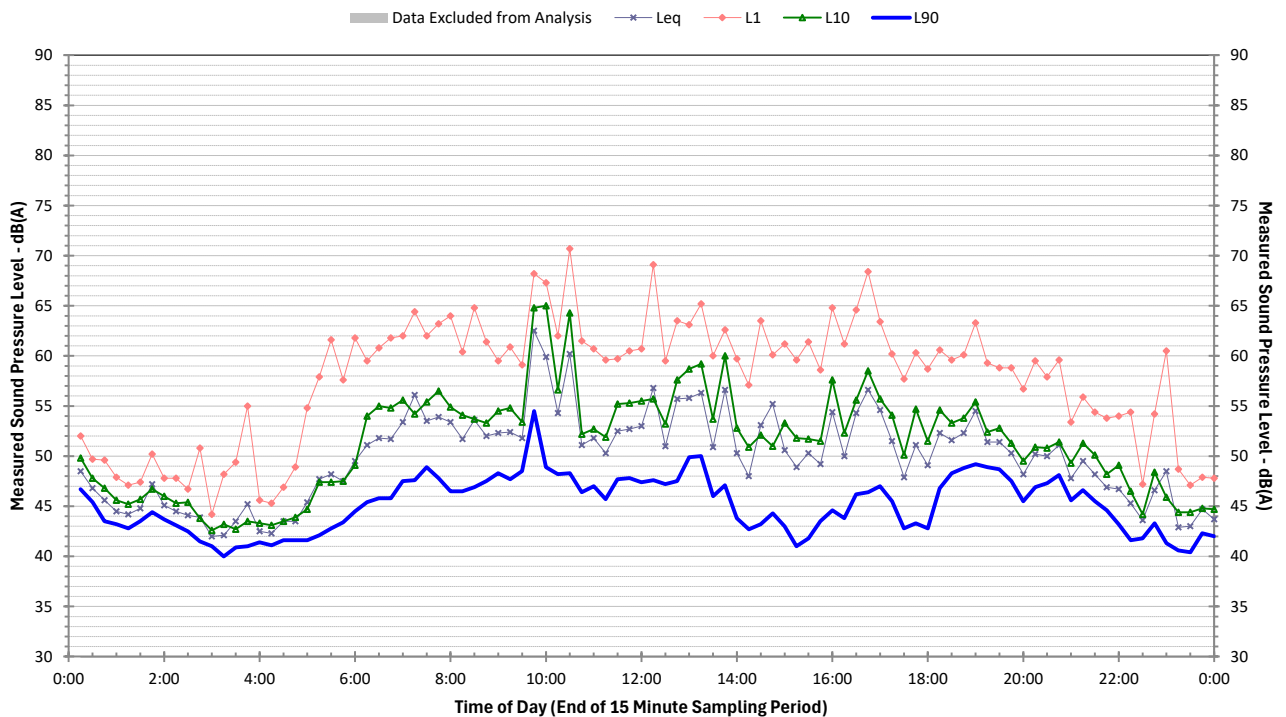
- Several years of monitoring data consistently indicate that the ambient noise environment in the local area is a product of the combined influence of all noise sources within the Port Botany area including the Opal site when operational.
- The meteorological condition during the survey produced a wind vector from the west, which is likely to increase noise influences from all sources including Botany Road as well as other nearby industrial sources, to residences located to the east of the site.
- The most recent noise monitoring results indicate that the measured  $L_{Aeq}$  noise levels are generally like the median noise levels of the long-term series of data for corresponding seasonal measurement periods.
- The median  $L_{A90}$  night period noise levels were higher than the EPL criteria for all locations except R1.
- The  $L_{Amax}$  noise levels for the July monitoring period are consistent with  $L_{Amax}$  noise levels from previous surveys. The  $L_{A1}$  noise levels are also consistent with other monitoring periods.
- The  $L_{Aeq}$  and  $L_{Amax}$  noise levels recorded during the survey period are higher than the EPL criteria at the monitoring locations but are not related to the operation of the Opal site.

# Appendix A. Noise Monitoring Data

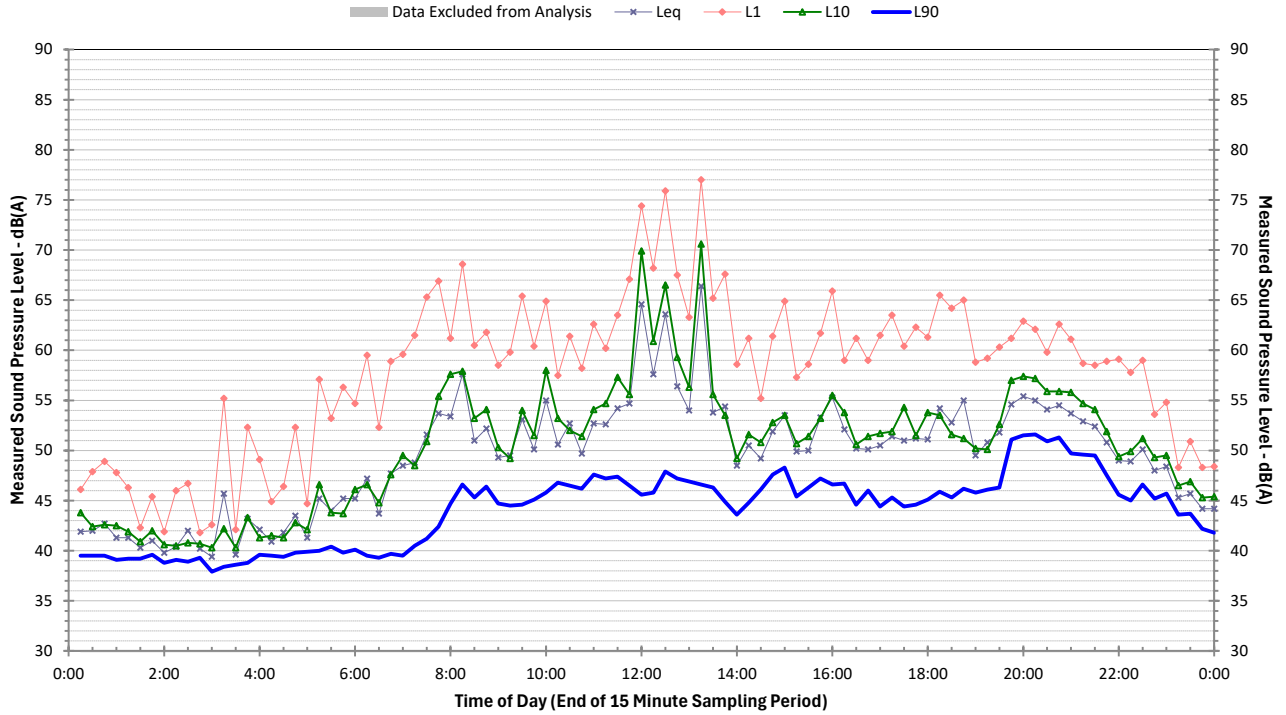
## Profile of Noise Environment - Noise Monitoring Location R1 Tuesday 25 November 2025



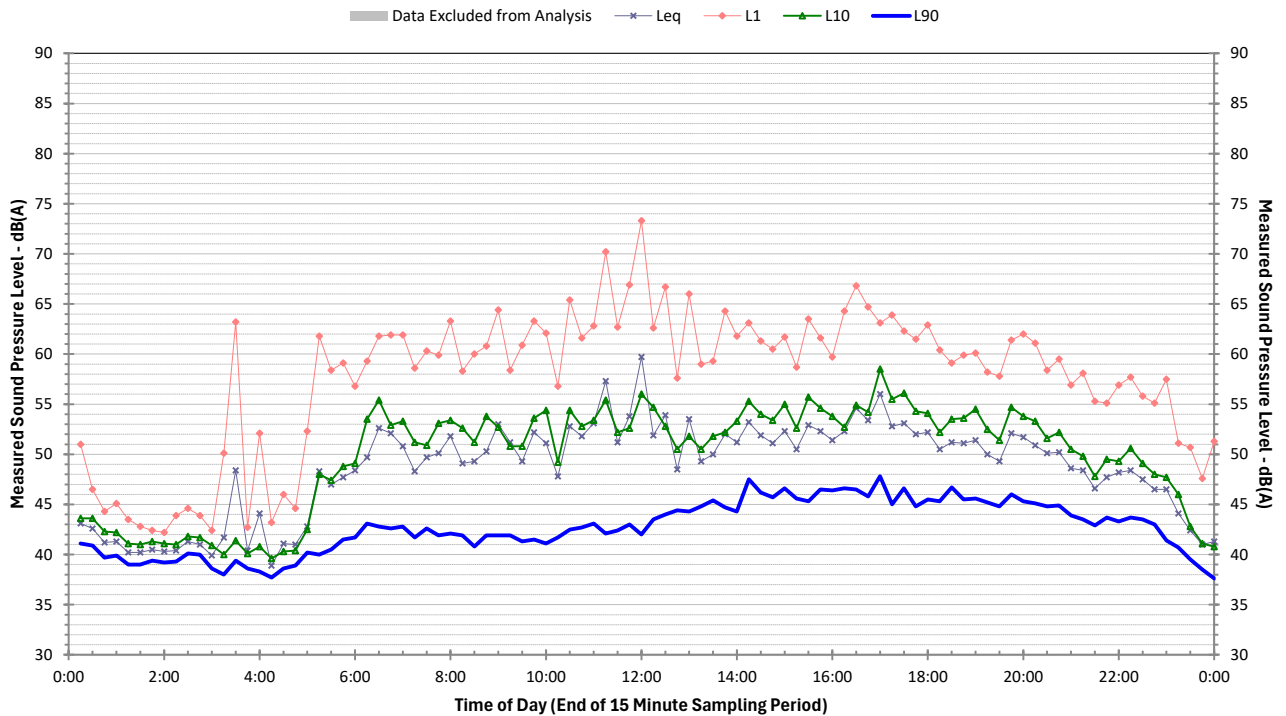
## Profile of Noise Environment - Noise Monitoring Location R1 Wednesday 26 November 2025



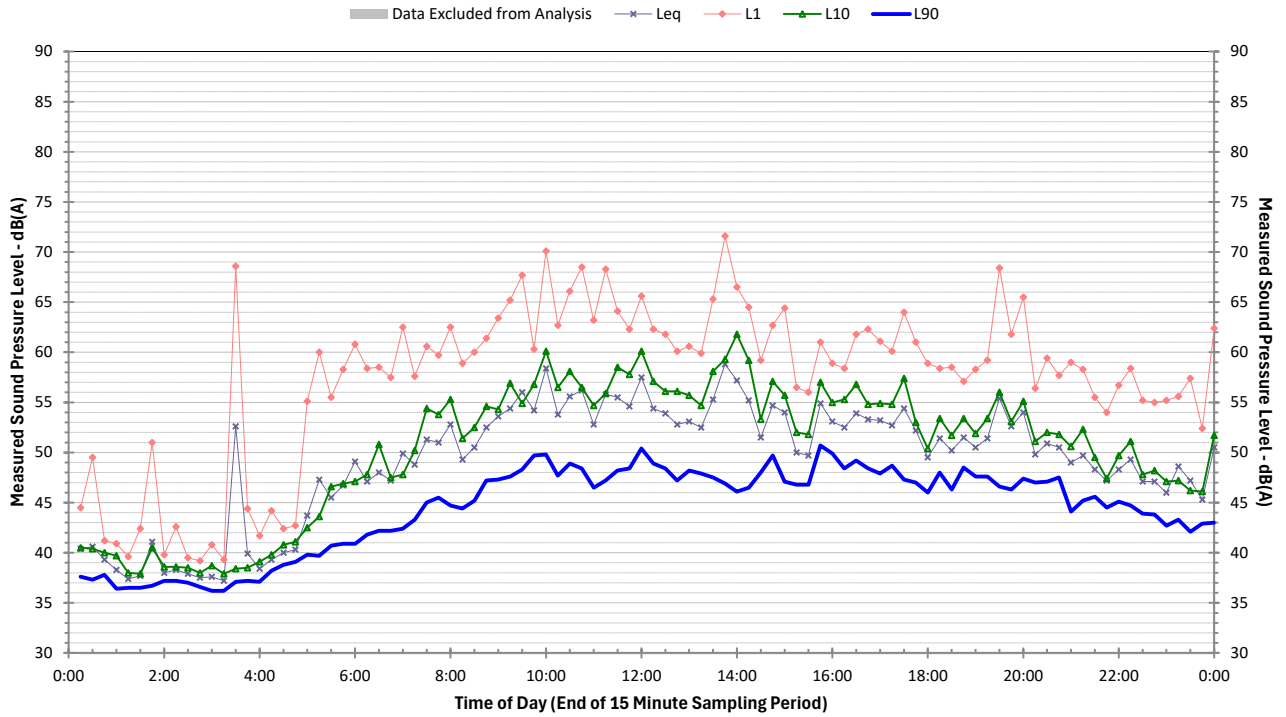
### Profile of Noise Environment - Noise Monitoring Location R1 Thursday 27 November 2025



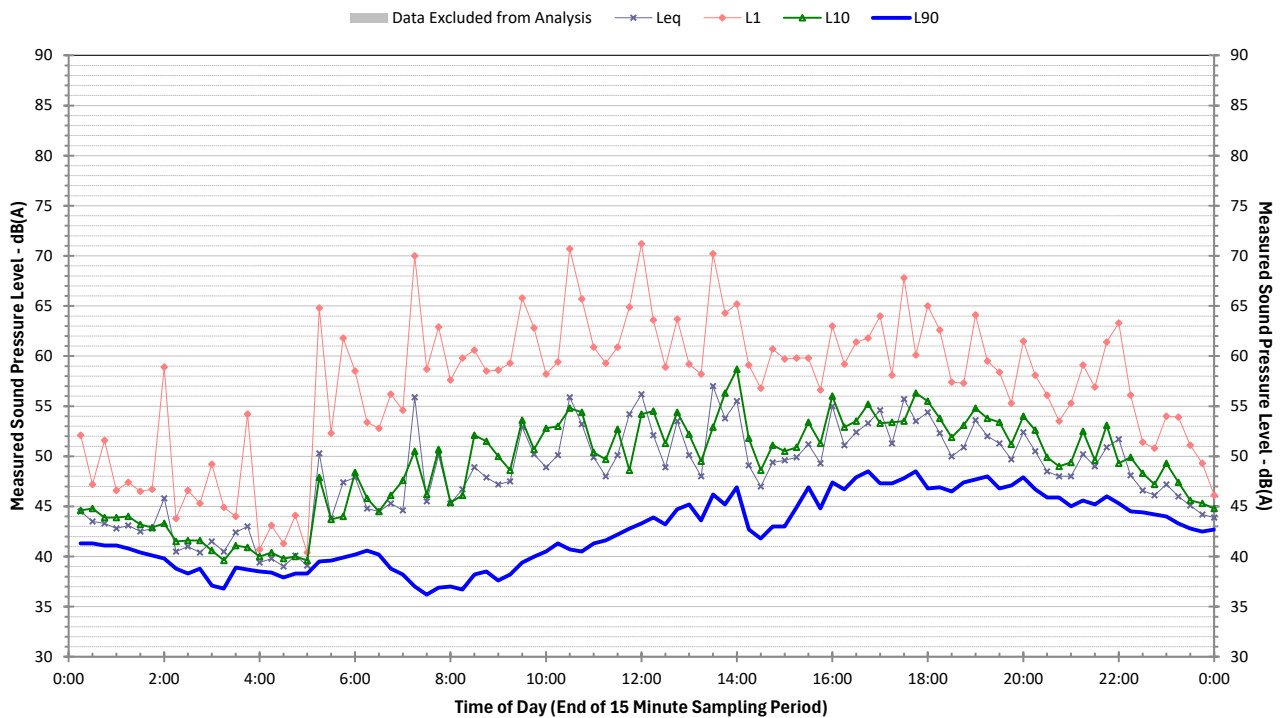
### Profile of Noise Environment - Noise Monitoring Location R1 Friday 28 November 2025



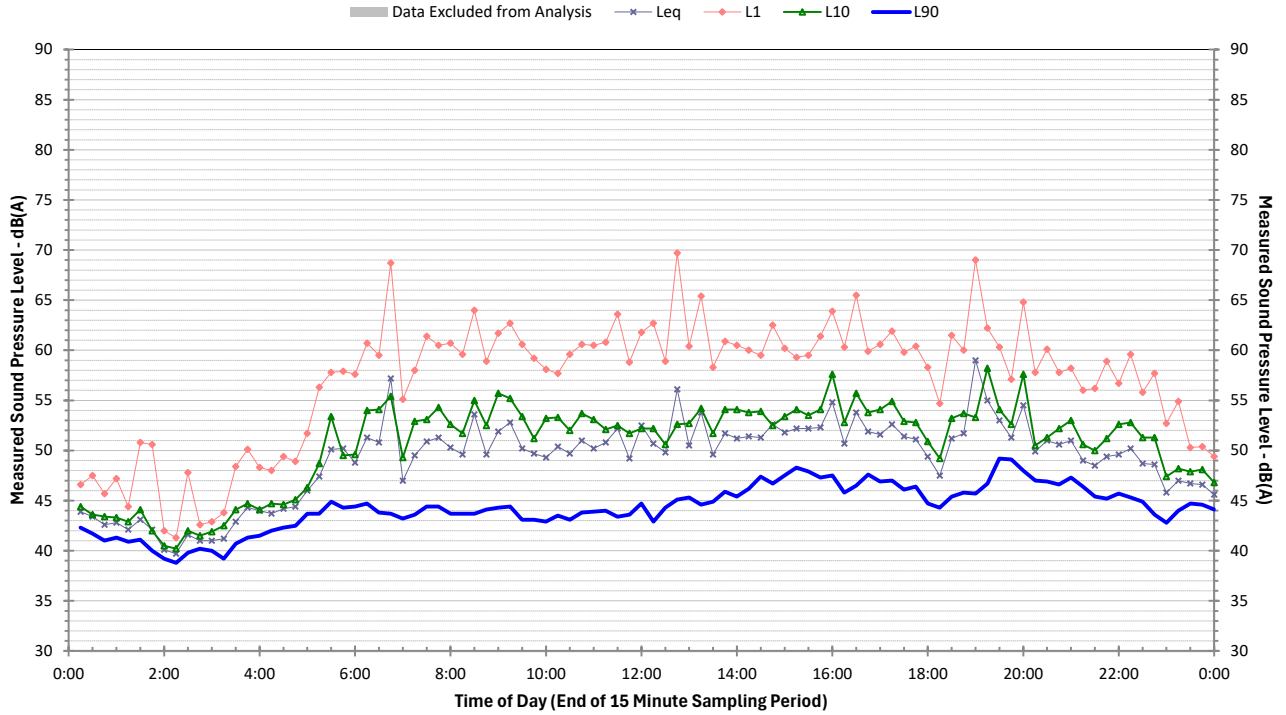
### Profile of Noise Environment - Noise Monitoring Location R1 Saturday 29 November 2025



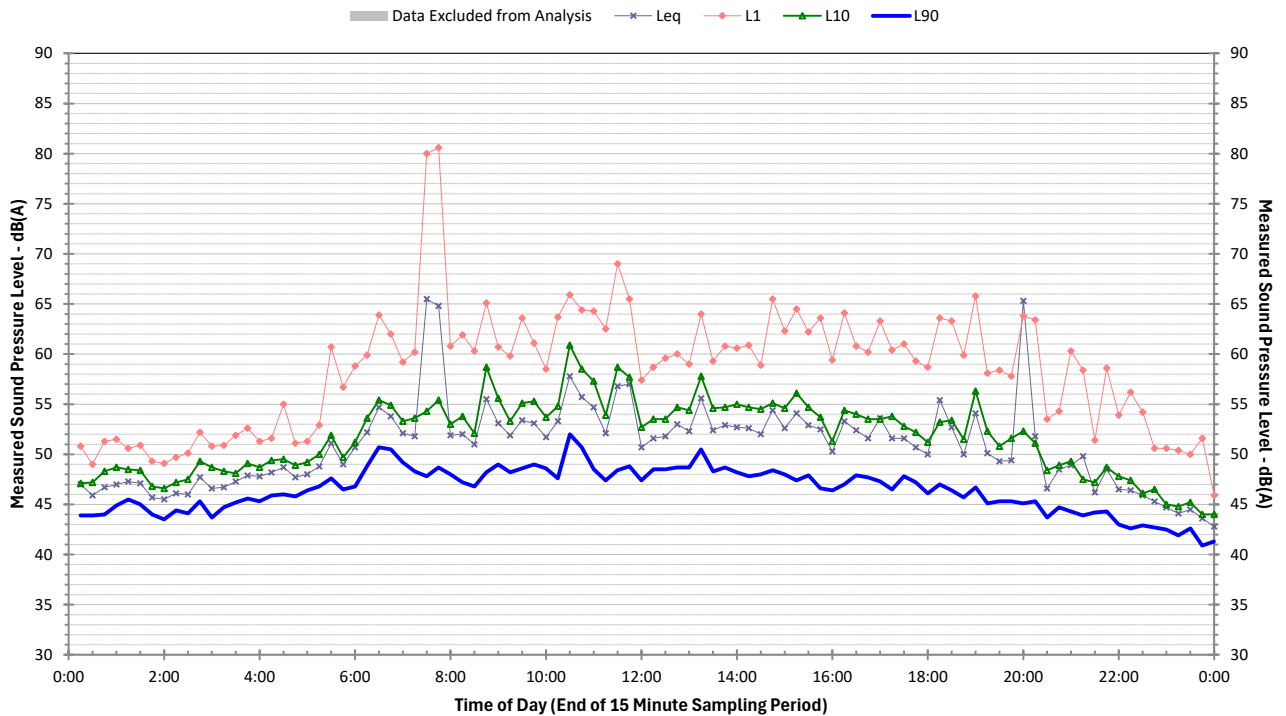
### Profile of Noise Environment - Noise Monitoring Location R1 Sunday 30 November 2025



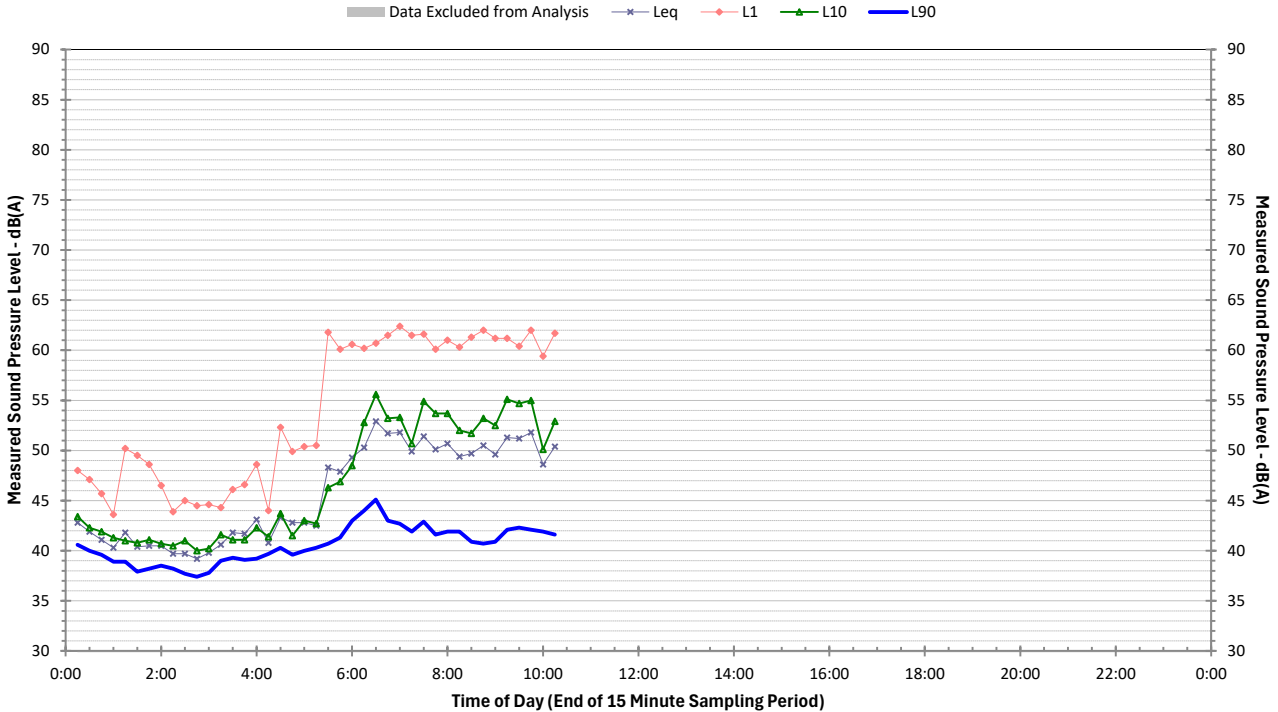
### Profile of Noise Environment - Noise Monitoring Location R1 Monday 1 December 2025



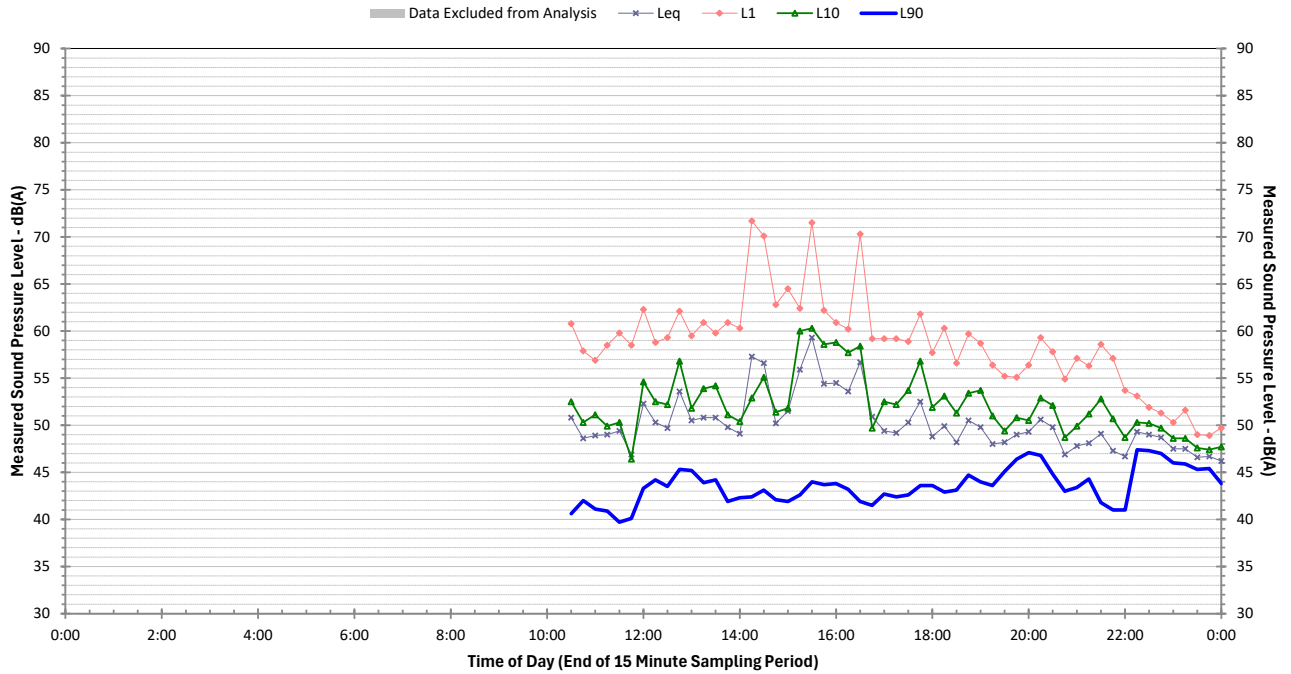
### Profile of Noise Environment - Noise Monitoring Location R1 Tuesday 2 December 2025



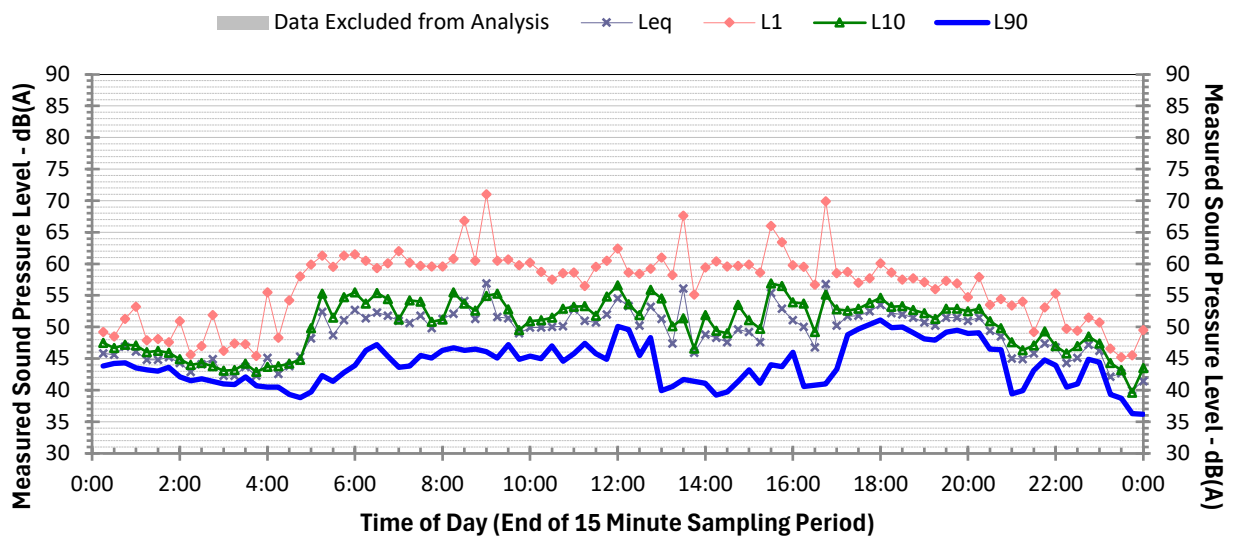
# Profile of Noise Environment - Noise Monitoring Location R1 Wednesday 3 December 2025



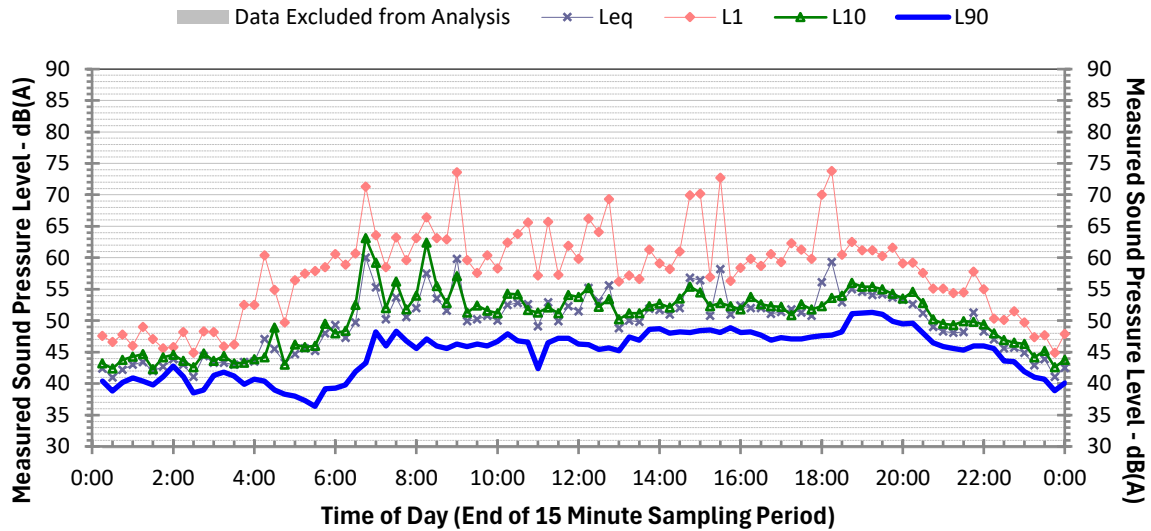
### Profile of Noise Environment - Noise Monitoring Location R2 Tuesday 25 November 2025



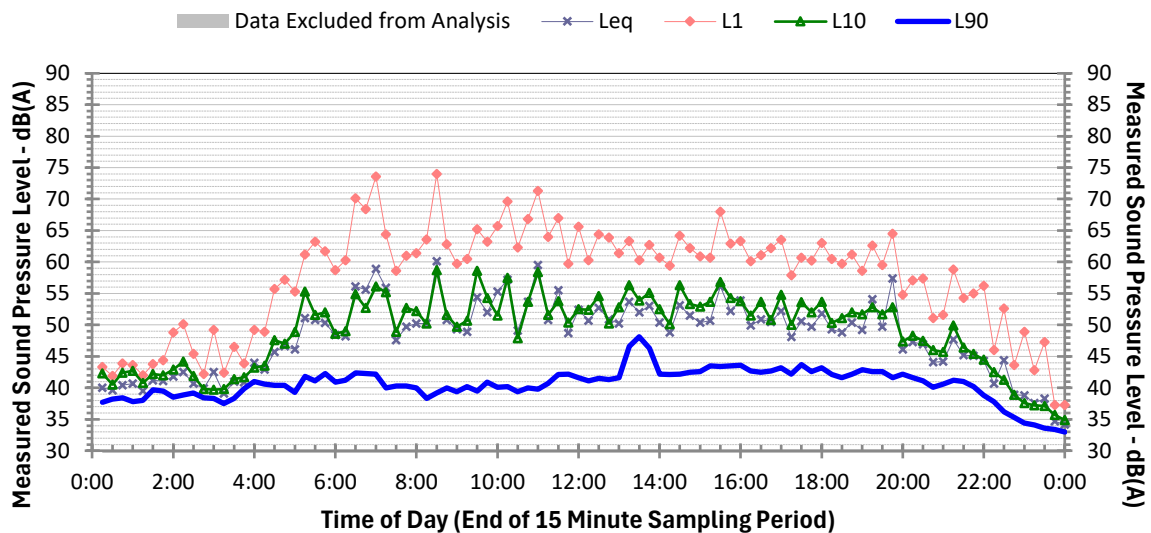
### Profile of Noise Environment - Noise Monitoring Location R2 Wednesday 26 November 2025



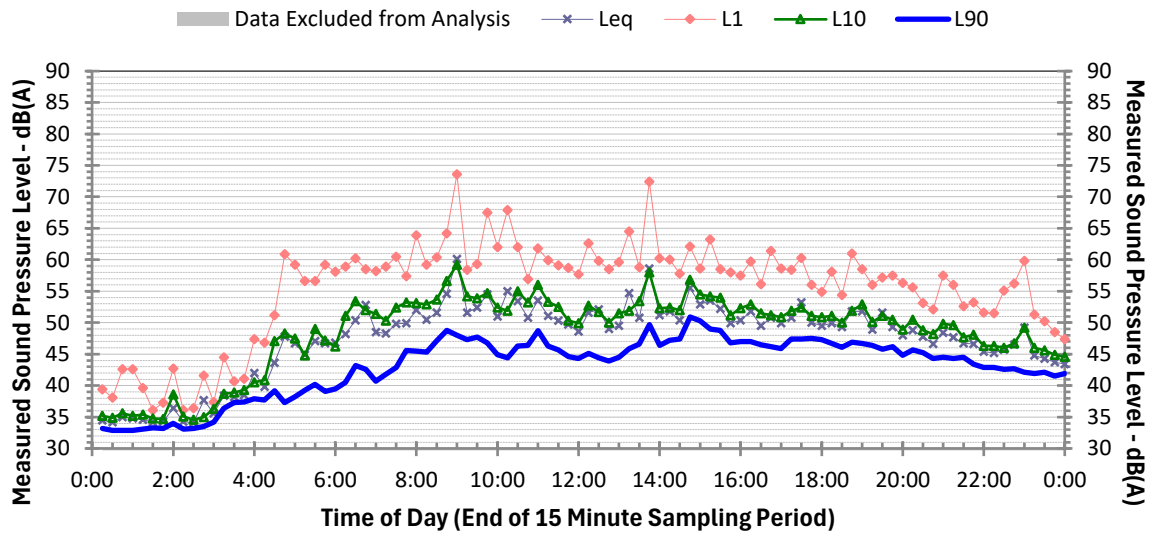
## Profile of Noise Environment - Noise Monitoring Location R2 Thursday 27 November 2025



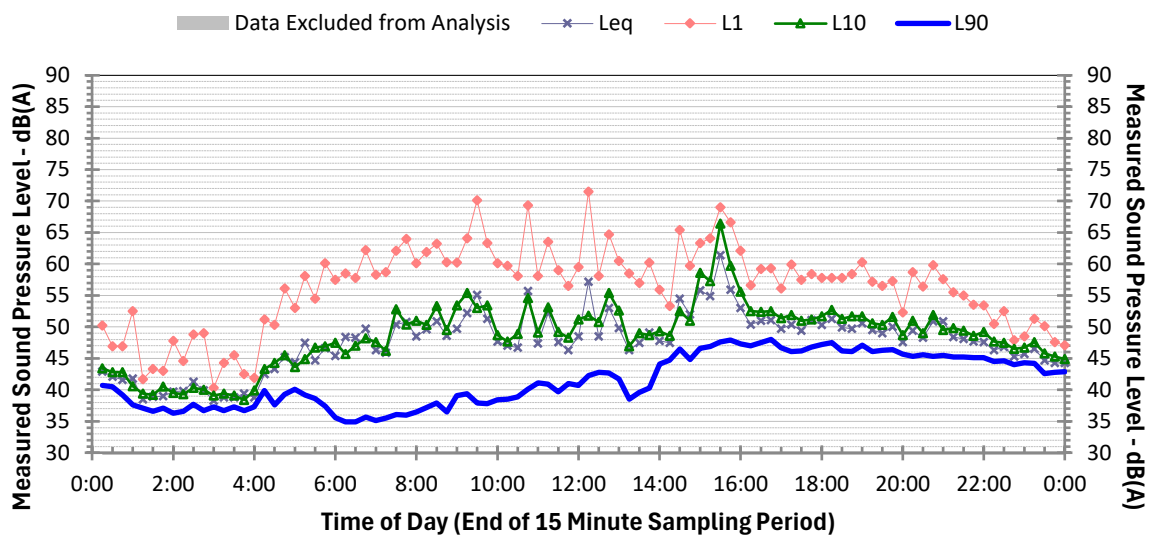
## Profile of Noise Environment - Noise Monitoring Location R2 Friday 28 November 2025



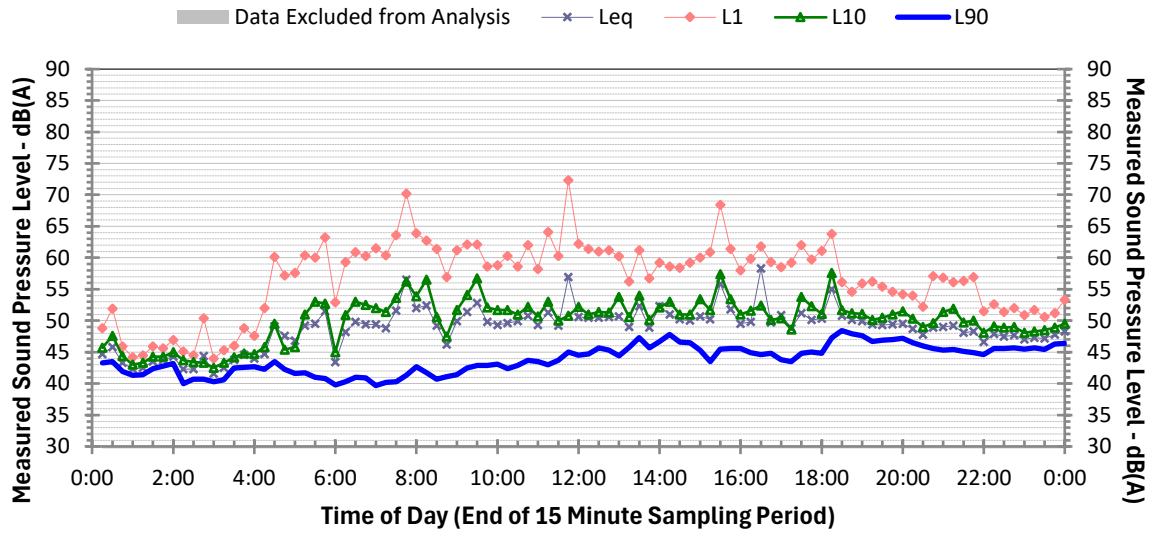
## Profile of Noise Environment - Noise Monitoring Location R2 Saturday 29 November 2025



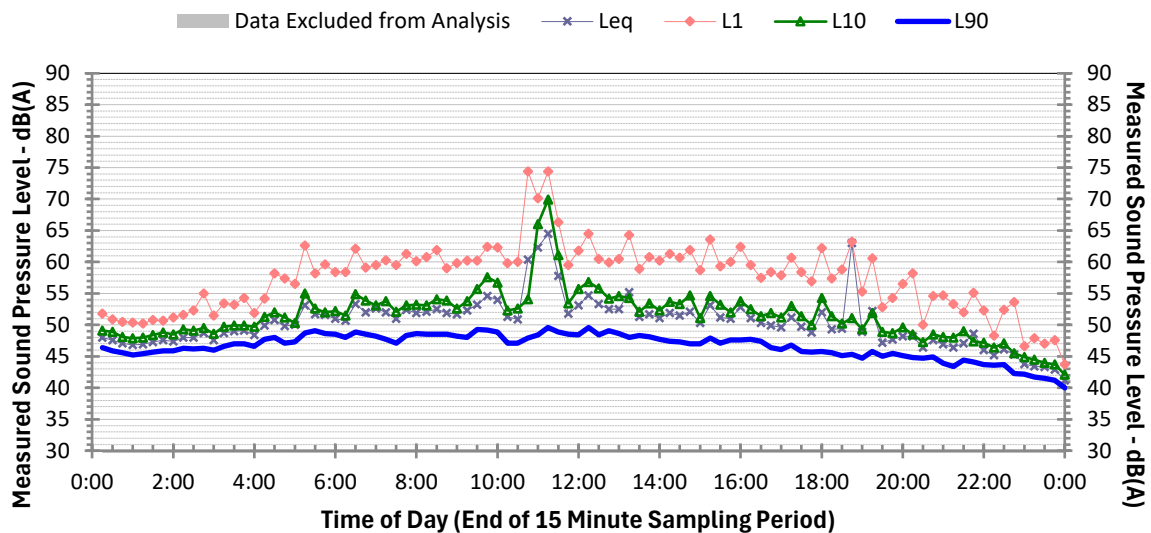
## Profile of Noise Environment - Noise Monitoring Location R2 Sunday 30 November 2025



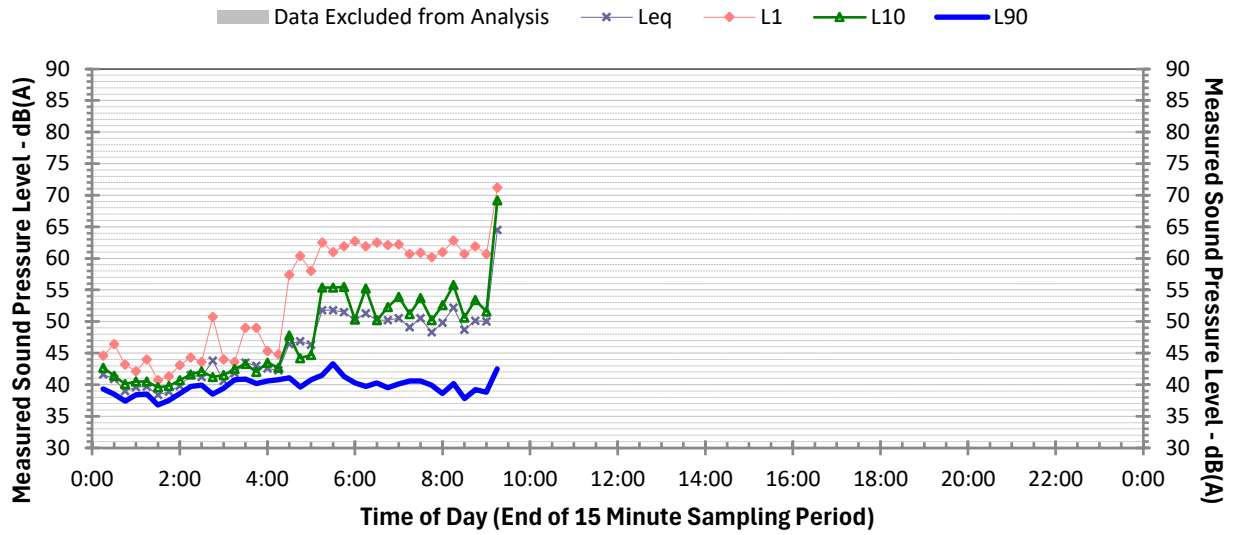
## Profile of Noise Environment - Noise Monitoring Location R2 Monday 1 December 2025



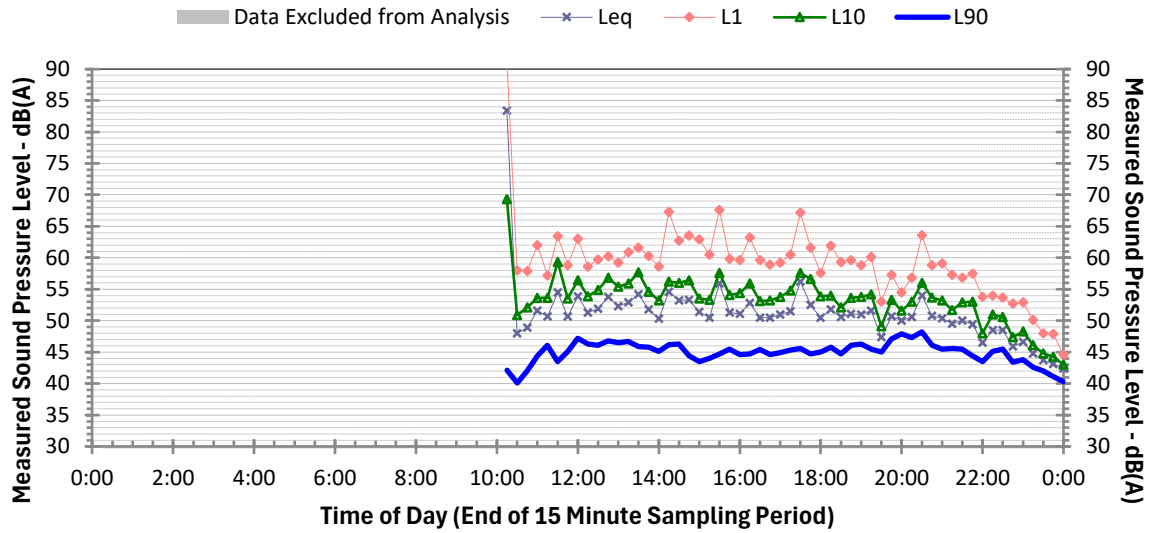
## Profile of Noise Environment - Noise Monitoring Location R2 Tuesday 2 December 2025



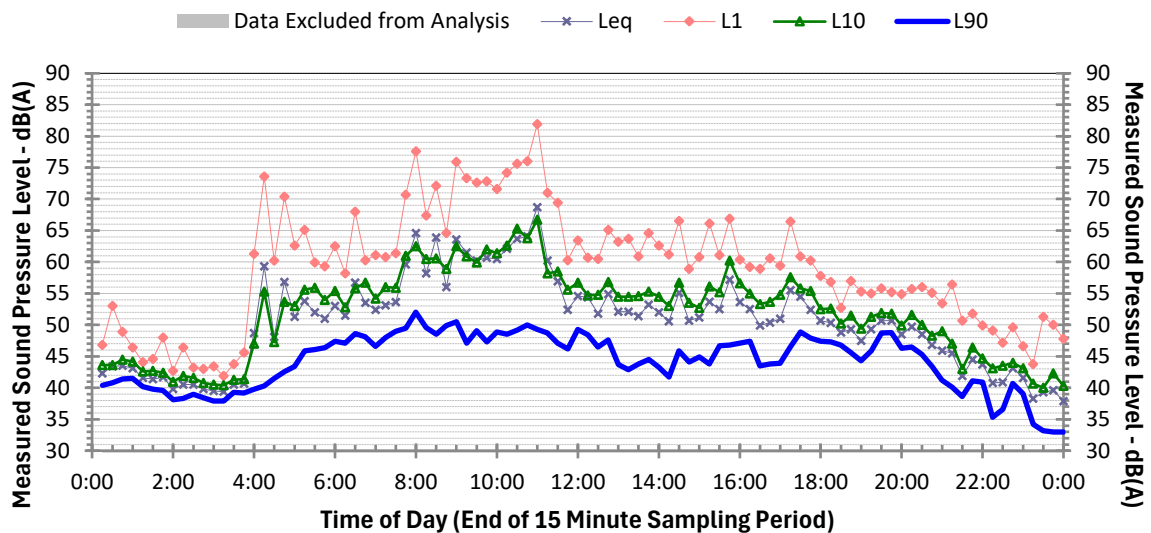
# Profile of Noise Environment - Noise Monitoring Location R2 Wednesday 3 December 2025



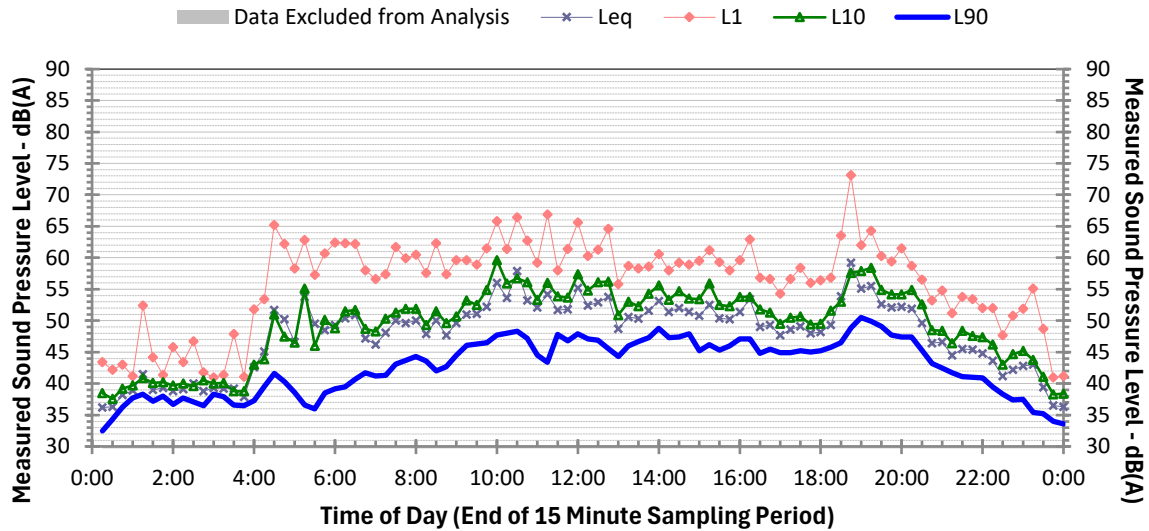
## Profile of Noise Environment - Noise Monitoring Location R5 Tuesday 25 November 2025



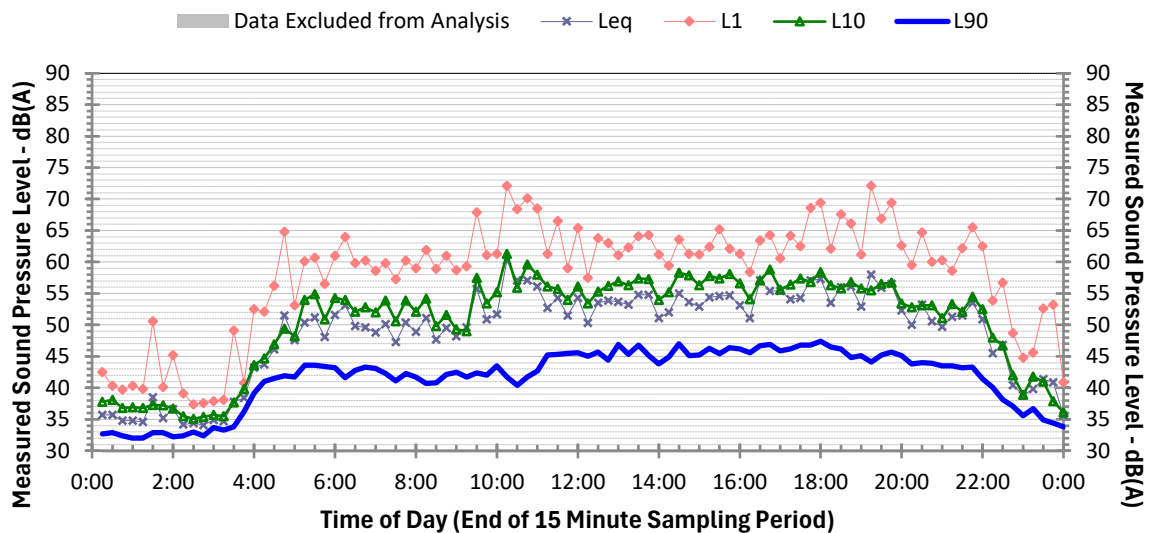
## Profile of Noise Environment - Noise Monitoring Location R5 Wednesday 26 November 2025



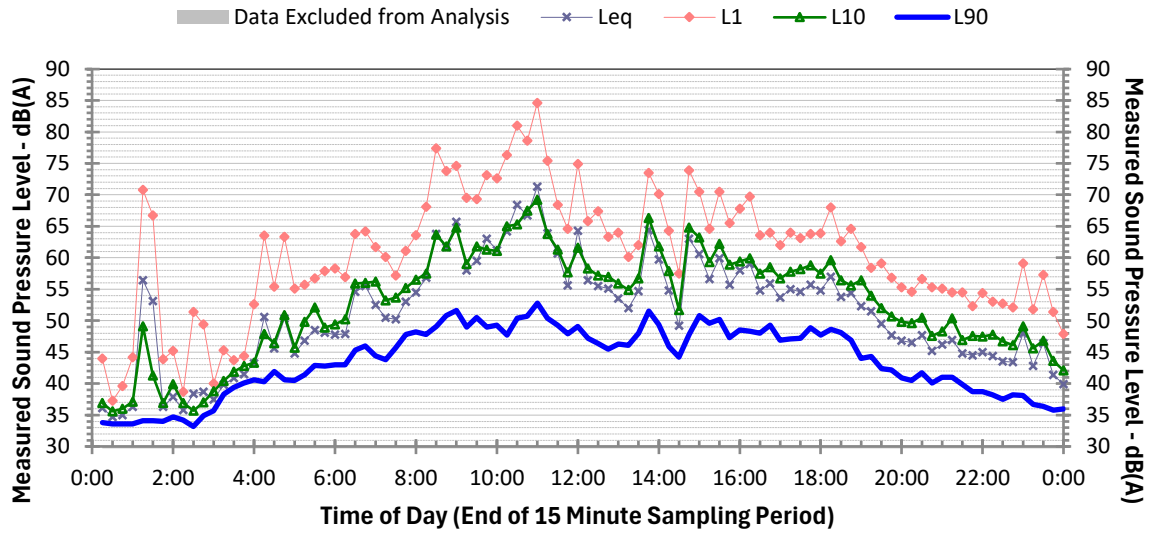
## Profile of Noise Environment - Noise Monitoring Location R5 Thursday 27 November 2025



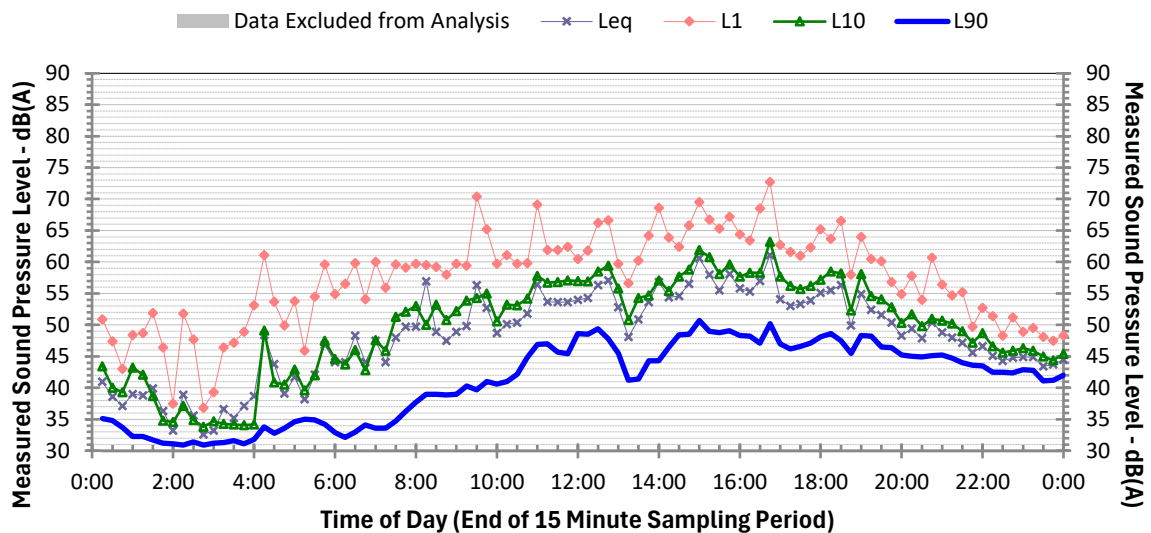
## Profile of Noise Environment - Noise Monitoring Location R5 Friday 28 November 2025



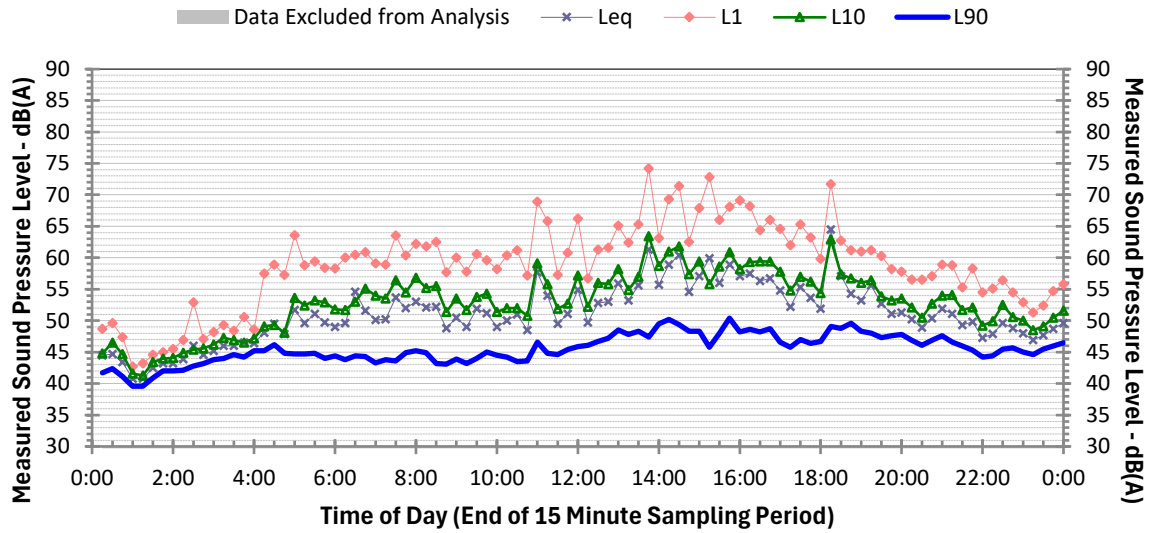
## Profile of Noise Environment - Noise Monitoring Location R5 Saturday 29 November 2025



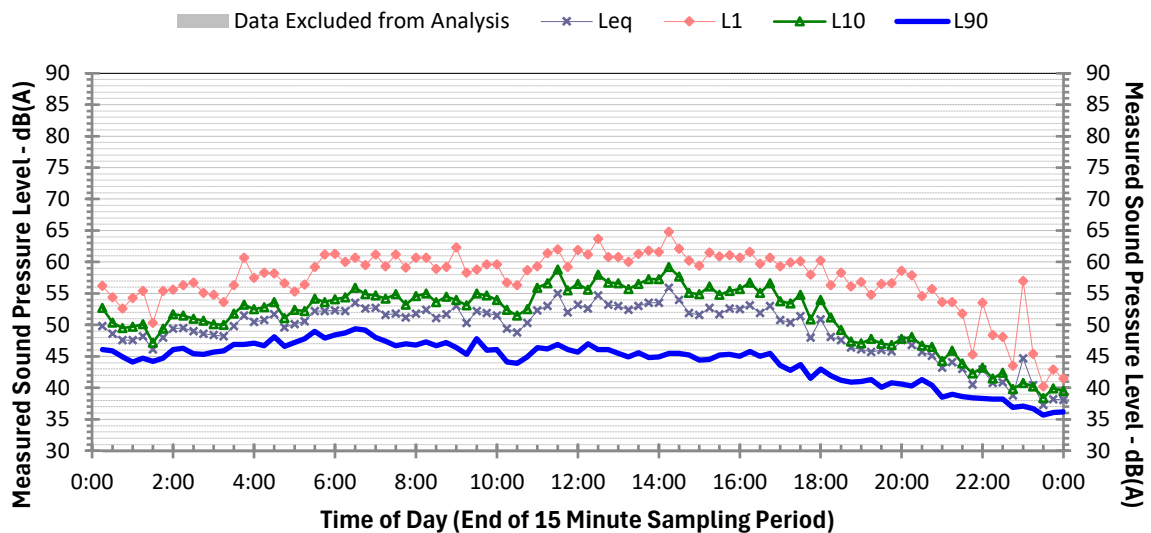
## Profile of Noise Environment - Noise Monitoring Location R5 Sunday 30 November 2025



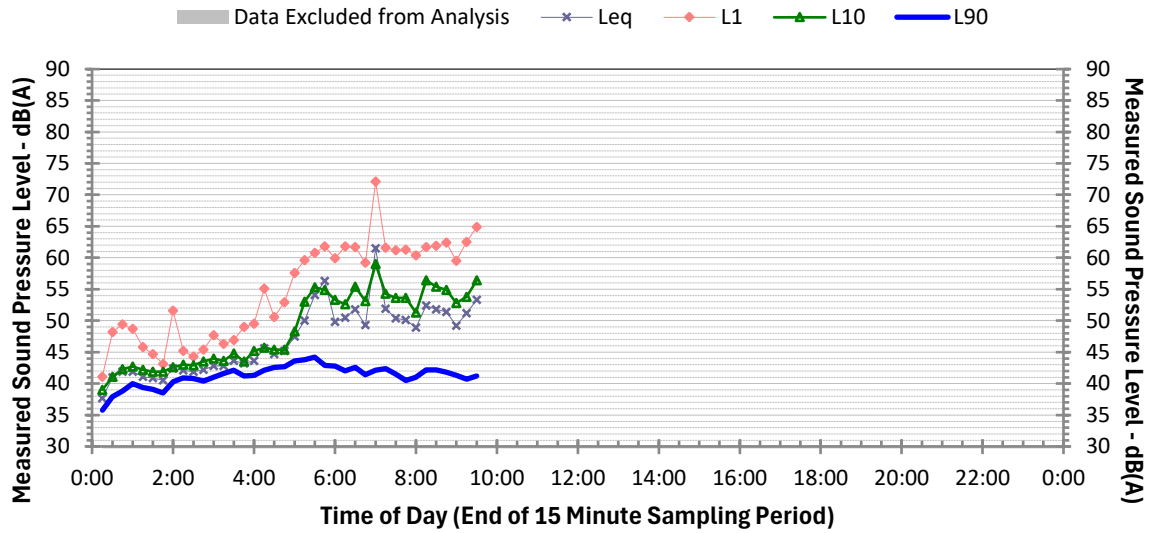
## Profile of Noise Environment - Noise Monitoring Location R5 Monday 1 December 2025



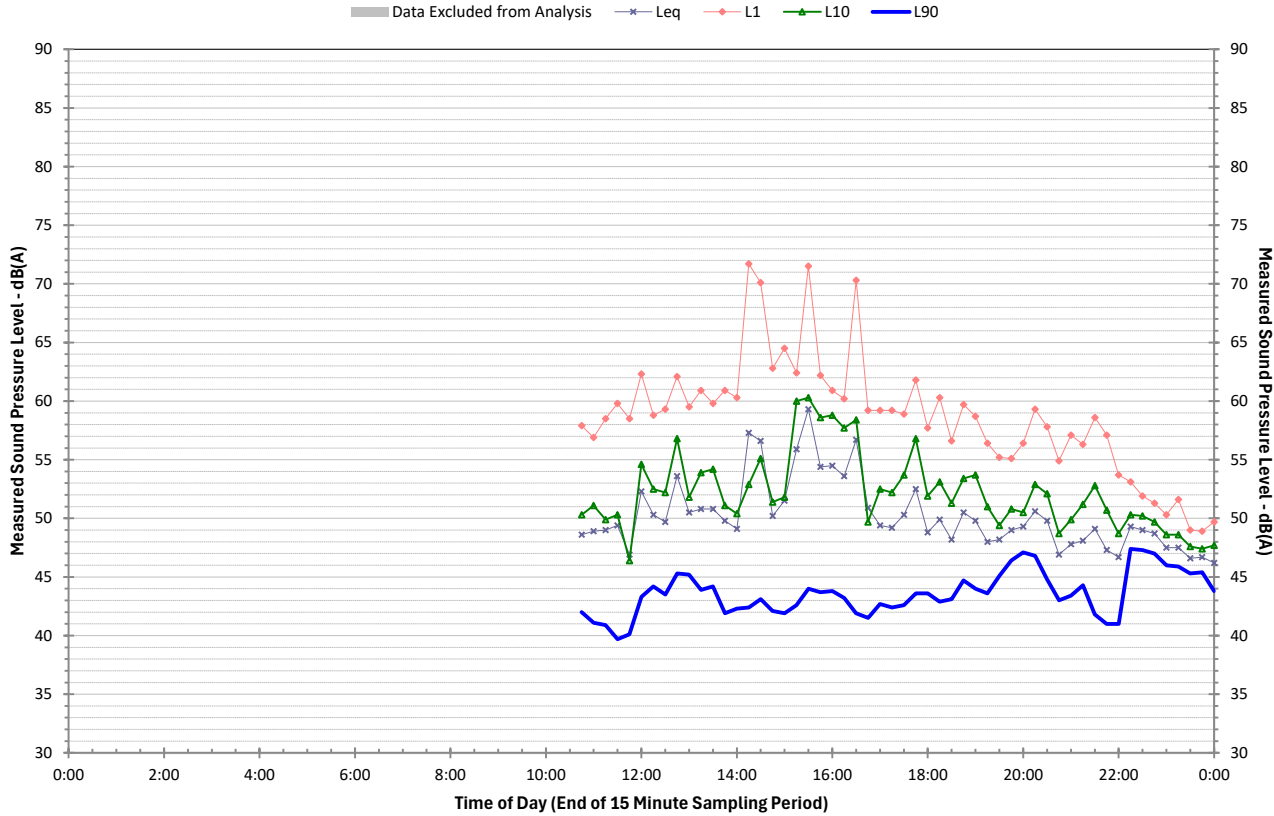
## Profile of Noise Environment - Noise Monitoring Location R5 Tuesday 2 December 2025



# Profile of Noise Environment - Noise Monitoring Location R5 Wednesday 3 December 2025

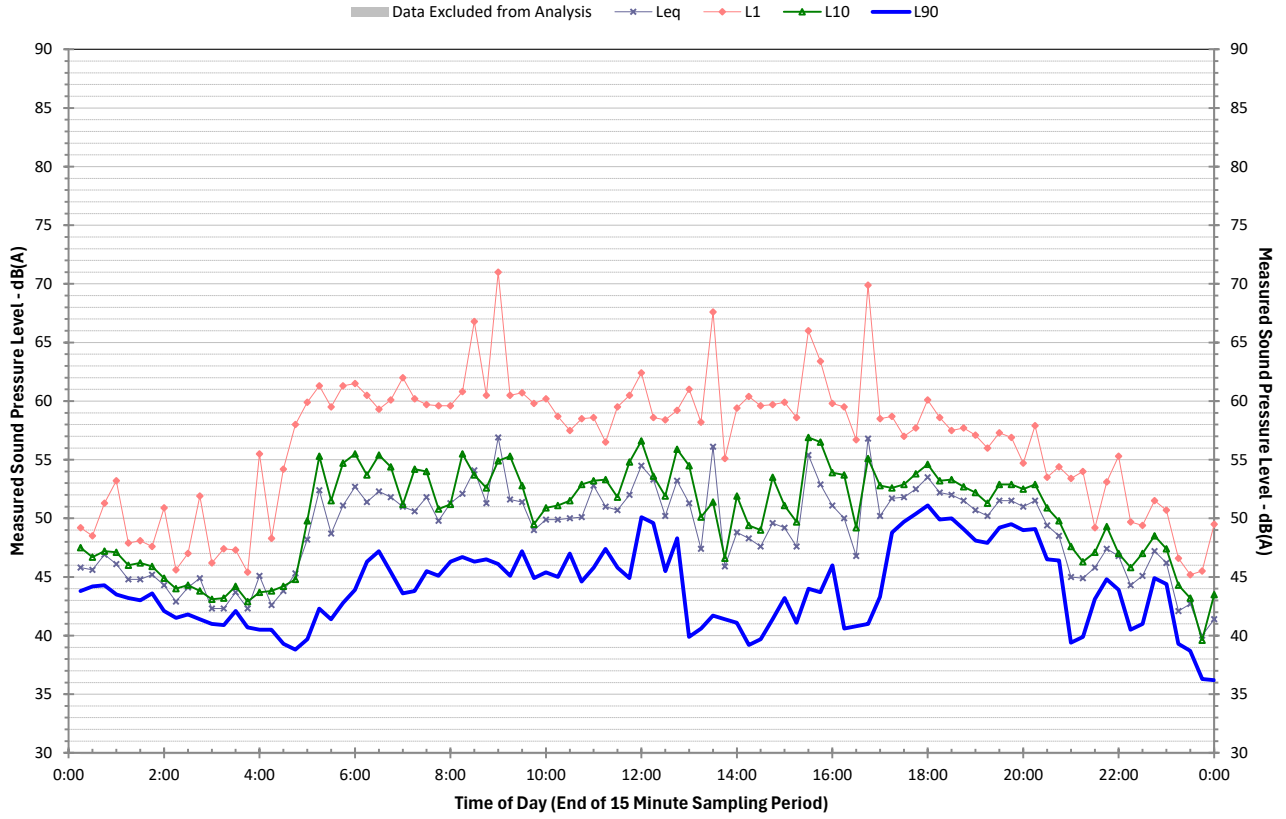


# Profile of Noise Environment - Noise Monitoring Location R6 Tuesday 25 November 2025



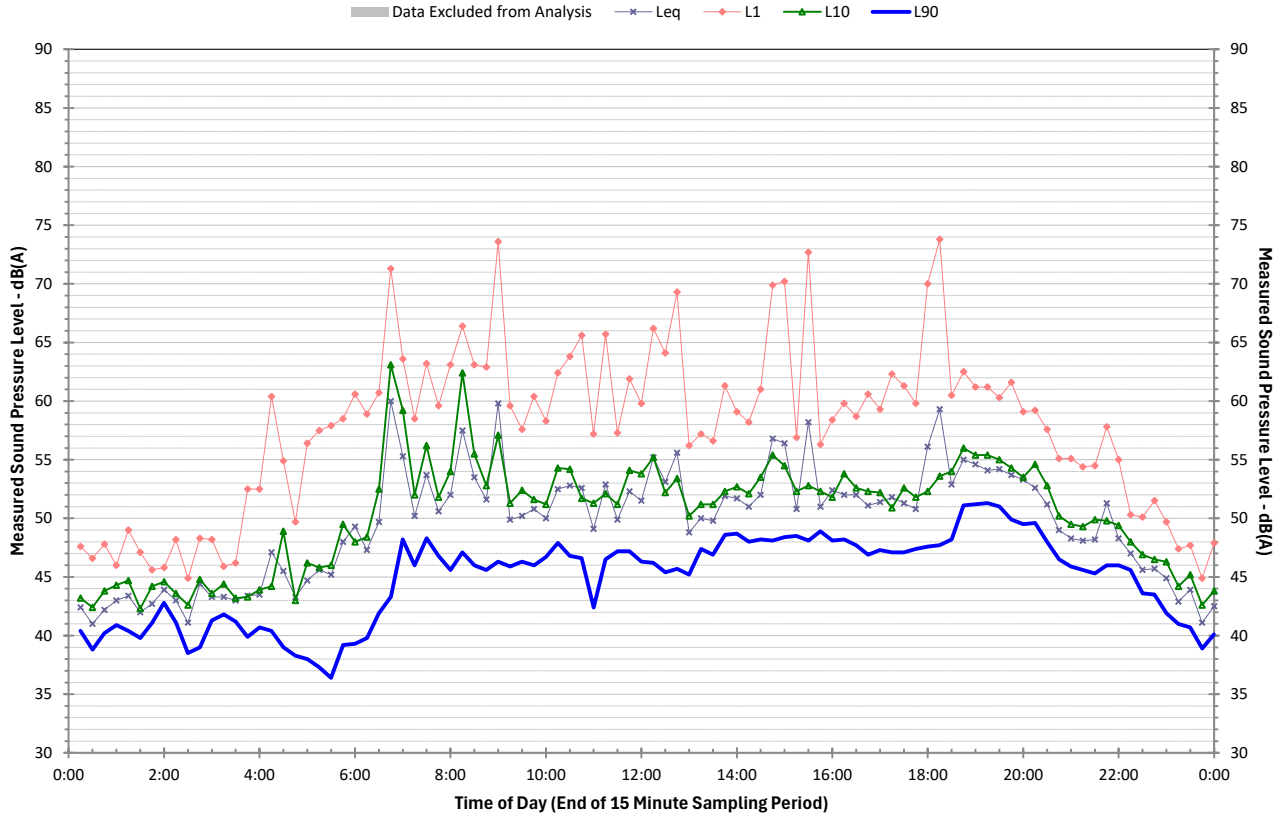
# Profile of Noise Environment - Noise Monitoring Location R6

## Wednesday 26 November 2025



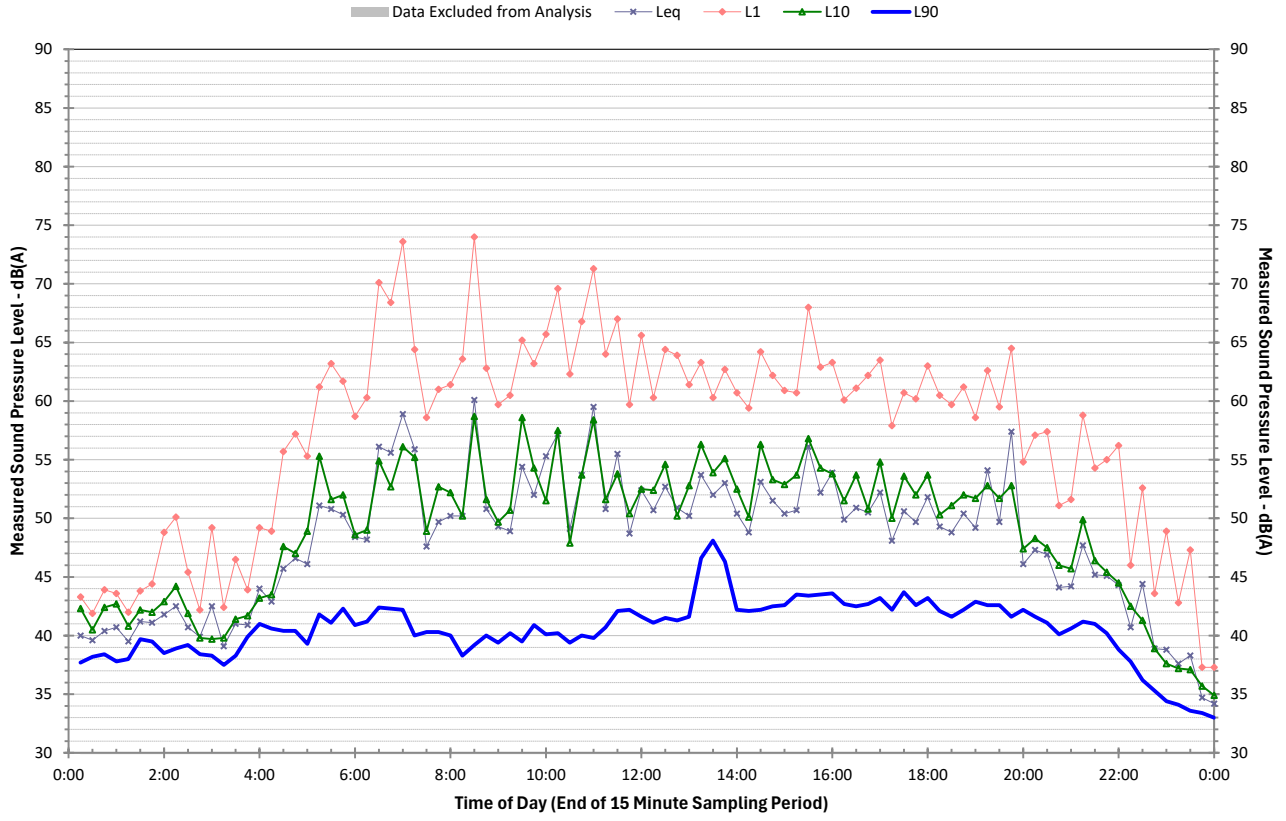
# Profile of Noise Environment - Noise Monitoring Location R6

## Thursday 27 November 2025



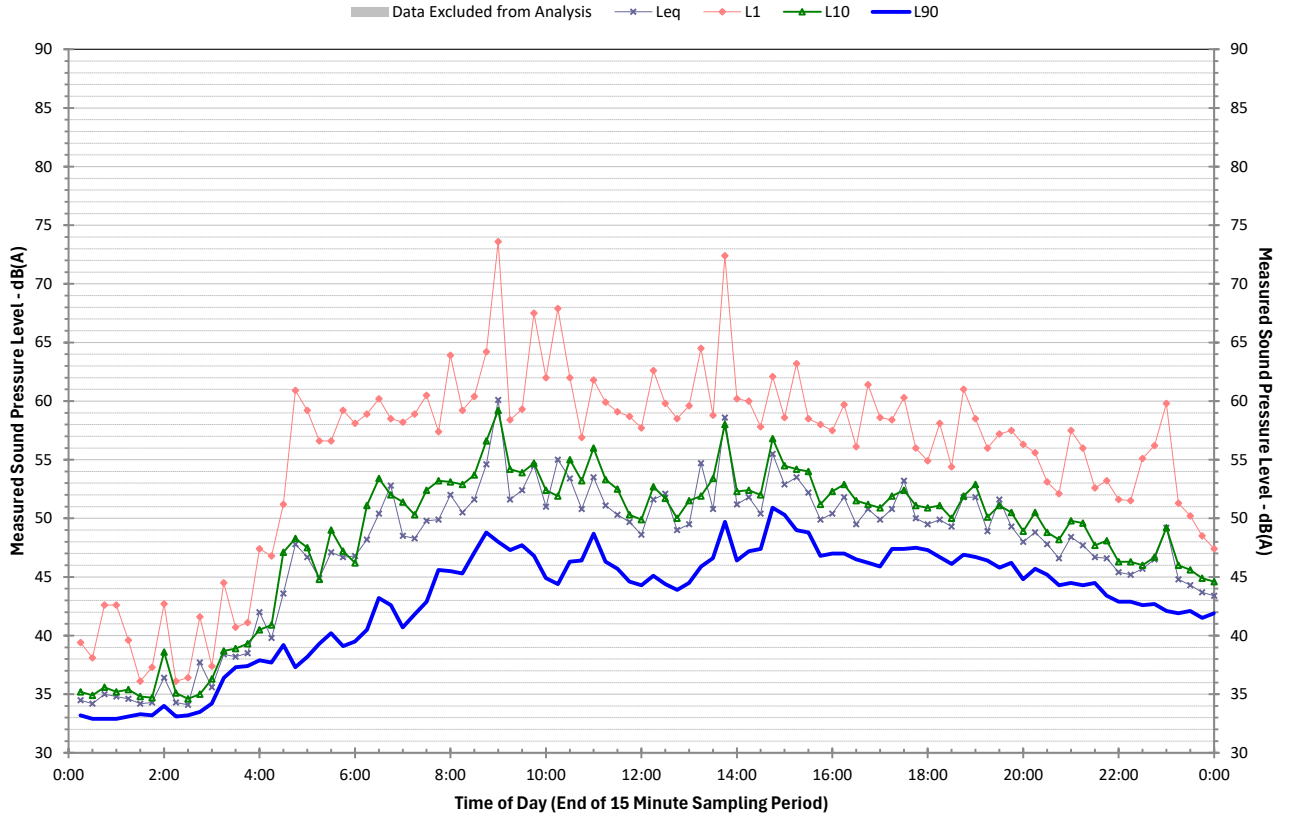
# Profile of Noise Environment - Noise Monitoring Location R6

## Friday 28 November 2025

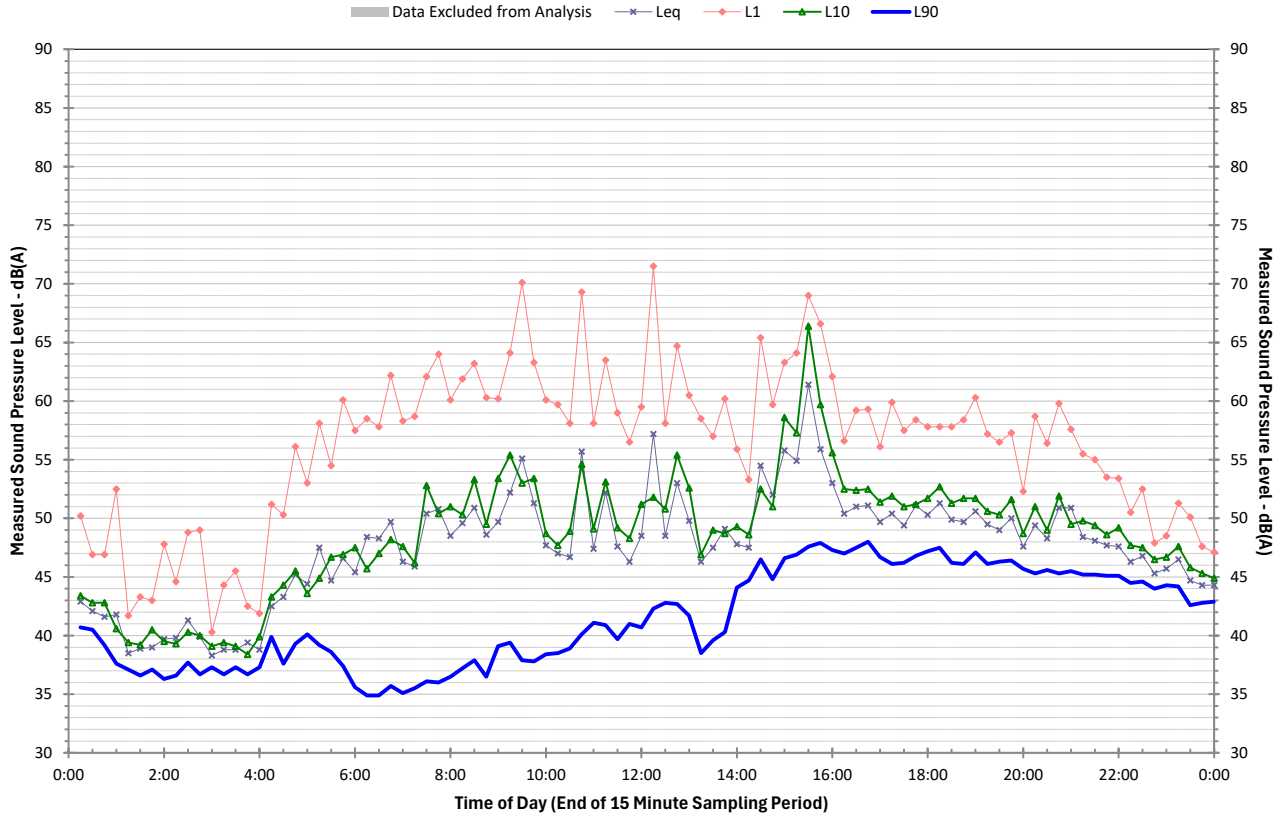


# Profile of Noise Environment - Noise Monitoring Location R6

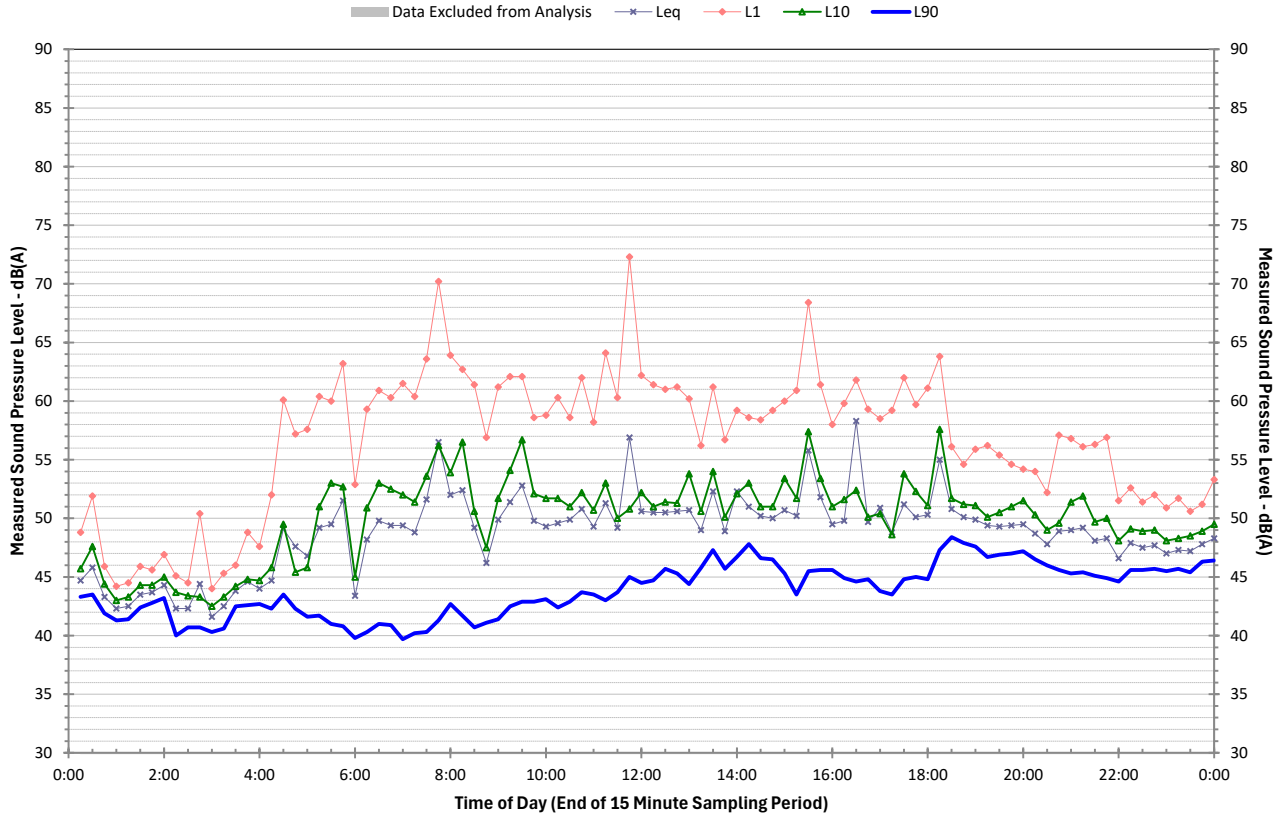
## Saturday 29 November 2025



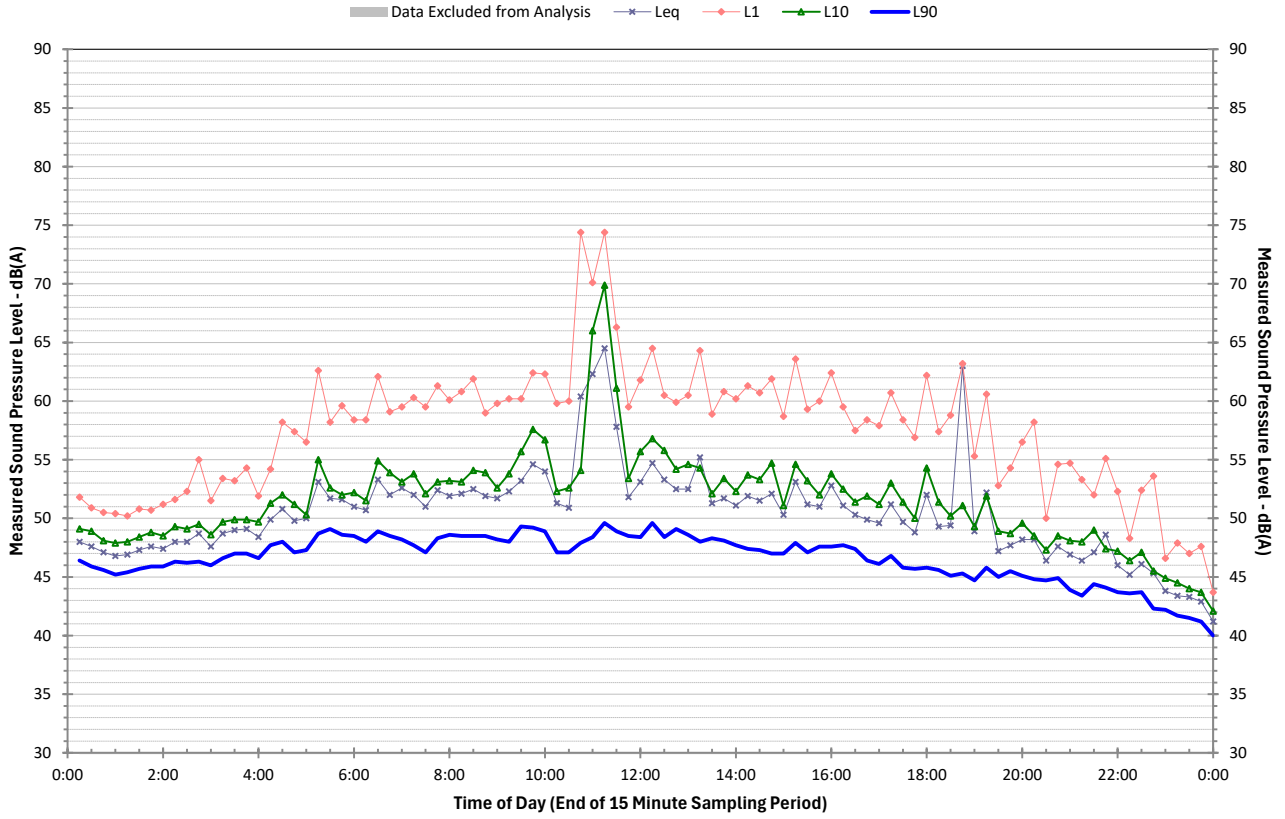
# Profile of Noise Environment - Noise Monitoring Location R6 Sunday 30 November 2025



# Profile of Noise Environment - Noise Monitoring Location R6 Monday 1 December 2025



### Profile of Noise Environment - Noise Monitoring Location R6 Tuesday 2 December 2025



### Profile of Noise Environment - Noise Monitoring Location R6 Wednesday 3 December 2025

