

Royal Prince Alfred Hospital Redevelopment (RPAH Redevelopment)

Construction Noise and Vibration Monitoring Report 27

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Attention To	CPB Contractors Pty Limited

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# 1 INTRODUCTION

This report presents the results of the noise and vibration monitoring conducted by Acoustic Logic during the site establishment works for the RPA Hospital redevelopment, located at 50 Missenden Road, Camperdown. Details presented in this report include monitoring locations, relevant noise and vibration objectives, measured noise and vibration levels over the presented monitoring period and a discussion of results where applicable.

This report covers the twenty-seventh fortnight since the beginning of construction monitoring, being between Monday 9<sup>th</sup> December, 2024 and Sunday 22<sup>nd</sup> December, 2024 (Extended to 31/12/2024 noting Christmas Shutdown period.)

Unattended noise and vibration monitoring has been undertaken to satisfy the requirements of Condition B26 of SSD-47662959's Development Consent, in conjunction with the noise and vibration management levels established within the *Early Works Construction Noise and Vibration Management Plan*, prepared by this office, and as they are so updated throughout the construction process where necessitated (Ref: 20230239.9/0610A/R1/LA). Condition B26 of SSD-47662959's Development Consent is provided below for reference:

## ***"Environmental Management Plan Requirements***

**B26.** *Management plans required under this consent must be prepared having regard to the relevant guidelines, including but not limited to the Environmental Management Plan Guideline: Guideline for Infrastructure Projects (DPIE April 2020).*

*Notes:*

*The Environmental Management Plan Guideline is available on the Planning Portal at: <https://www.planningportal.nsw.gov.au/major-projects/assessment/post-approval>.*

*The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans."*

## 2 SITE DESCRIPTION

The site is maintained on Lot 1000 DP 1159799, and is bound by the existing operational RPA Hospital to the west, the Centenary Institute to the north, and University of Sydney's Bruce William Pavilion and Susan Wakil Health Building to the east and south respectively. The site is surrounded by various residential, commercial, hospital, university, research and active recreation sensitive receivers generally.

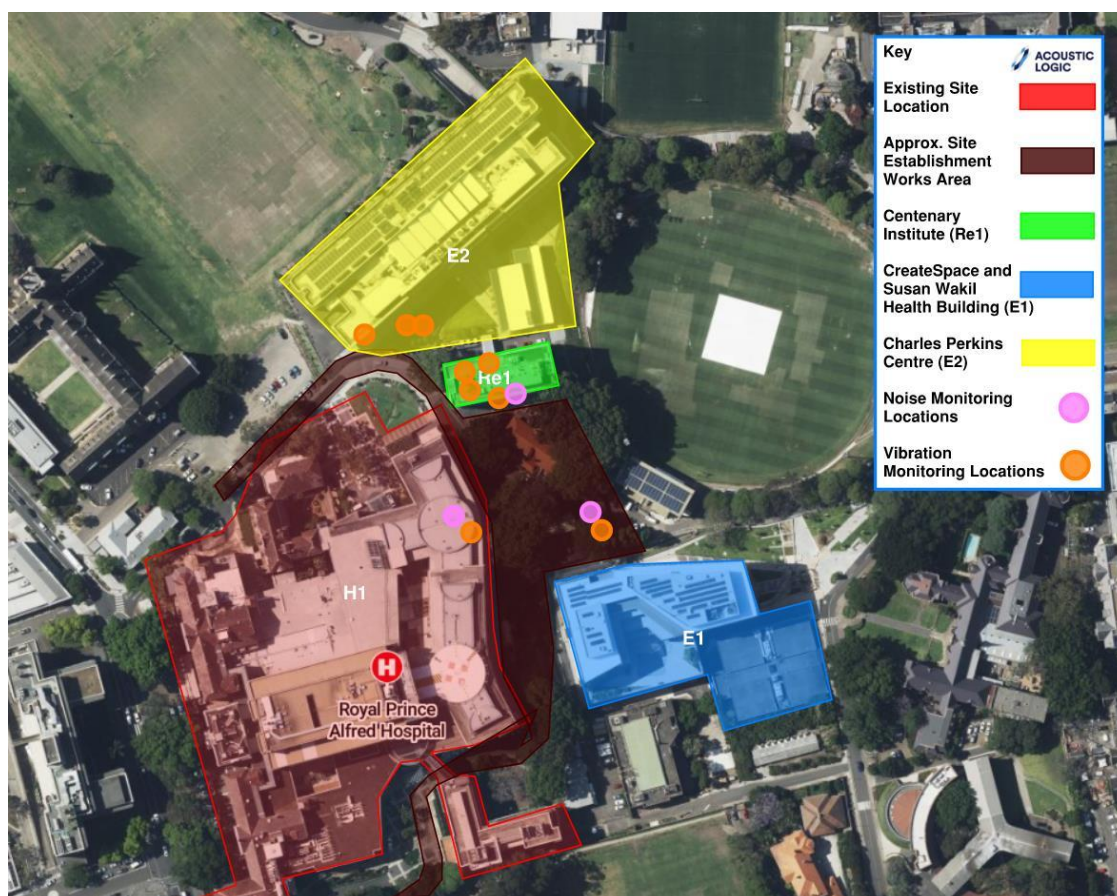
The works maintained within Early Works and Site Establishment pertain specifically to works along Lambie Dew Drive and John Hopkins Drive.

The surrounding affected sensitive receivers that are investigated within the contents of this monitoring assessment are as presented below:

**Table 1 – Surrounding Sensitive Receivers**

ID No.	Receiver Description	Receiver Category
H1	RPA Hospital Main Building	Hospital
Re1	Centenary Institute	Research Facilities
E1	CreateSpace and Susan Wakil Health Building	Education
E2	Charles Perkins Centre	

See an aerial photo in Figure 1 below for detailed receiver locations.



**Figure 1: Aerial Site Map with Nearest Sensitive Receivers (Sourced from Sixmaps)**

### 3 NOISE AND VIBRATION MANAGEMENT LEVELS

The following section details the relevant construction noise and vibration requirements assessed throughout the monitoring period.

#### 3.1 NOISE MANAGEMENT LEVELS

Noise Management levels relevant to the contents of this report are summarised in the table below, as provided within the *Early Works Construction Noise and Vibration Management Plan*, prepared for the project by this office (Ref: 20230239.9/0610A/R1/LA). Note that based upon measurements and discussions with relevant stakeholders on 12/03/2024, the Noise Management Level for the Animal Housing, Breeding and Observation Rooms within Centenary Institute will be reduced to 62dB(A)  $L_{eq}(15 \text{ min})$ , and this will be adopted within this report, as well as further subsequent assessments:

**Table 2 – Noise Management Levels**

Receiver	Room Usage	Noise Management Level dB(A) $L_{eq}(15\text{min})$
H1	NICU	60 (Internally)
E1 and E2	All	45 (Internally)
R1	Animal Housing / Breeding / Observation Rooms	62 (Internally)
	Rat Operating Room	48 (Internally)

#### 3.2 PROJECT VIBRATION CRITERIA

Relevant project vibration criteria to the contents of this report are provided within the table below. Vibration criteria presented for spaces within Re1 and E2 have been updated based upon the conclusion of the "Baseline Monitoring Results," report, as well as the "Construction Noise and Vibration Monitoring Report 1," both of which were prepared by this office for the project (Ref: 20230239.17/0412A/R1/LA and 20230239.17/2301A/R0/LA). Supplementarily, further correspondence between Charles Perkins Centre and the project team on 20/02/2024 has resulted in the reduction of criteria within the animal spaces on B2 to VC-A criteria, and this is reflected within the table below and has been in effect through this monitoring period:

**Table 3 – Summarised Proposed Project Vibration Limits**

<b>Receiver</b>	<b>Location</b>	<b>Vibration Criteria (<math>\mu\text{ms}^{-1}</math>)</b>
Re1 Centenary Institute	L3 Fish Tank Room	400 $\mu\text{ms}^{-1}$ Peak Particle Velocity
	L4 – Animal Behaviour / Holding / Breeding Rooms (Northern Façade)	VC-A (ASHRAE Handbook) (50 $\mu\text{ms}^{-1}$ ) RMS Velocity
	L4 – Animal Behaviour / Holding / Breeding Rooms (Southern Façade – Isolated with SSF Pads)	150 $\mu\text{ms}^{-1}$ RMS Velocity
E1 Createspace and Susan Wakil Health Building	All spaces	DIN 4150-3 Type 1 Criteria (20,000 $\mu\text{ms}^{-1}$ / 20 $\text{mms}^{-1}$ ) Peak Particle Velocity
E2 Charles Perkins Centre	Imaging Equipment (Southern Wing Corridor)	VC-B (ASHRAE Handbook) (25 $\mu\text{ms}^{-1}$ ) RMS Velocity
	Animal Behaviour / Holding / Breeding Rooms	VC-A (ASHRAE Handbook) (50 $\mu\text{ms}^{-1}$ ) RMS Velocity
H1 RPA Hospital Main Building	Operating Theatres (Level 3)	100 $\mu\text{ms}^{-1}$ RMS Velocity

## 4 MONITORING EQUIPMENT AND LOCATIONS

### 4.1 NOISE MONITORING EQUIPMENT AND LOCATIONS

Unattended noise monitoring was conducting using Acoustic Research Laboratories Pty Ltd noise loggers. The loggers were programmed to store 15-minute statistical noise levels throughout the monitoring period. The equipment was calibrated at the beginning and the end of each measurement using a Rion NC-73 calibrator; no significant drift was detected. All measurements were taken on A-weighted fast response mode.

Three individual noise monitors have been installed surrounding the site at the following locations:

- Centenary Institute Level 4 Surgery (Southern Façade).
- RPA Hospital Main Building – Level 03 NICU.
- Outside Susan Wakil Health Building, on grade.

Please refer to Figure 1 for detailed monitoring locations.

## 4.2 VIBRATION MONITORING EQUIPMENT AND LOCATIONS

Vibration monitoring was conducted using either Texcel ETM vibration monitors with external Tri-axial Geophones, or Bruel and Kjaer Type 4450 vibration monitors.

Three Texcel ETM monitors have been placed surrounding the site at the following locations:

- Centenary Institute Level 3, Fish Tanks.
- Charles Perkins Centre Level B1, Southern Wing Observation Room E (Note that this monitor has been installed at this location to send alert messages at  $100 \mu\text{ms}^{-1}$  PPV vibration events, due to the limited reception achieved within the B2 area from the Bruel and Kjaer Type 4450 monitor installed to assess vibration impacts with respect to the VC-A vibration criteria curve within the animal holding area.
- Outside Susan Wakil Health Building, on grade.

Additionally, six Bruel and Kjaer Type 4450 Vibration monitors have been installed surrounding the site at the following locations:

- Centenary Institute:
  - Level 4 Surgery (Southern Façade).
  - Level 4 Change Rooms (Northern Façade)
  - Level 4 Northern façade Experimentation Room.
- Charles Perkins Centre:
  - Level B1, Southern Wing Corridor.
  - Level B1, Southern Wing Observation Room E
- RPA Hospital Main Building Level 3 NICU.

Please refer to Figure 1 for detailed monitoring locations.

## 5 RESULTS

Appendix A presents the results of the noise monitoring, whilst Appendix B presents the results of the vibration monitoring where exceedances occurred during the monitoring period as presented within the contents of this report.

A discussion pertaining the findings of the noise and vibration monitoring undertaken during this monitoring period is provided within the proceeding sections.

### 5.1 NOISE MONITOING RESULTS DISCUSSION

Noise monitoring conducted throughout the monitoring period shows general adherence to the noise management levels provided within Section 3 of this letter.

#### For the Holding, Breeding and Observation Rooms

- Noise levels were observed to be above the noise management level on 16/12/2024 for a period of 30 minutes.
- Ongoing monitoring to continue within the holding/breeding/observation spaces.

#### For RPAH Main Building L03 NICU

- The monitor is located underneath a benchtop and against two individual walls within the NICU area on Level 03 of the hospital main building. Due to the reflections experienced at the monitoring location due to this, a 5dB correction has been conservatively applied to the noise levels measured at the monitoring station.
- Noise levels were observed to be measured above the NML within the NICU space on the following dates:
  - 16/12/2024.
  - 18/12/2024.
  - 19/12/2024.
- Noise levels during construction hours were not observed to be above the NML for longer than one 15-minute period at a time, and hence it is likely that the large majority of these events were caused by internal operational activity within the space, as opposed to construction works, noting that construction works are typically continuous in nature.
- Generally, noise levels were measured to be marginally above the NML (Within 3dB).
- We also note that there are many 15-minute periods outside of construction hours where recorded levels are above the area's NML observed throughout the monitoring period.
- Ongoing monitoring to continue within the NICU space.

#### For the Susan Wakil Health Building

- Available data for monitoring period presented.
- With respect to the monitoring data, the noise monitor located outside of the Susan Wakil Health Building is within the demolition site boundary and approximately 15m closer to the area of the works than the façade of the Susan Wakil Health Building.

- Noting this increased distance attenuation, in conjunction with the transmission loss experienced through the inoperable façade of the Susan Wakil Health Building when comparing internal and external noise levels, Acoustic Logic expect that, at minimum, there is a 30dB reduction between the measured noise levels by the monitor, when compared with the resultant internal noise levels within the receiver.
- This reduction is considered conservative due to the distance between the monitor and the building, and hence, the noise impacts would be further reduced than what is outlined below in reality.
- Notwithstanding and of the data available, noise levels have been measured to be above the NML at the monitoring location on the following dates:
  - 16/12/2024.
  - 17/12/2024.
- Noise levels impacting Susan Wakil will be continued to be monitored throughout the early works construction to assess the impact of this receiver.

## 5.2 VIBRATION MONITORING RESULTS DISCUSSION

With regards to the vibration measured vibration levels during the monitoring period, we note the following:

- Note that the graphs presented within the Appendix of this document show the maximum recorded velocity for each individual frequency within a given day's monitoring period.
- Data has only been provided for days in which exceedances attributed to vibration works have been experienced at the monitoring station.
- The following section provides discussion pertaining to the measured exceedances observed throughout the period at individual monitoring locations:

### 5.2.1 Centenary Institute:

- Level 1 – Laser Imaging Room (Electrical Cupboard):
  - Precision imaging equipment such as the laser scanning apparatus investigated by this monitoring station are impacted by vibration through impacts on output results.
  - This would hence be observed by operators of the equipment, whereby the system would not be operating correctly/results of the system would be impacted.
  - To the knowledge of this office, no impacts on the results output of the equipment have been reported by Centenary Institute throughout the early works construction period.
  - Further, and based upon onsite inspections and testing, AL note that the Laser room is subject to various sources of ambient vibration from the operation of the facility which contribute to the levels measured during construction, inclusive of refrigerant plant maintained within the basement of the facility.
  - Where any changes to the operation / results of the laser scanning apparatus are observed by the operators of the equipment, this is to be relayed to this office for investigation and alignment with construction activity to appropriately assess and mitigate impacts.
- Level 3 – Fish Tanks:
  - No exceedances of vibration criteria were observed throughout this monitoring period.

- Level 4 – Northern Façade (Bathroom and Experimentation Room – VC-A Criteria):
  - No exceedance events were measured by both northern façade monitors throughout the noise monitoring period.
  - One exceedance event on 16/12/2024, measured as  $257\mu\text{ms}^{-1}$  has been attributed to internal activity within CI and is not a result of construction activity.
  - No other exceedances were observed throughout the monitoring period.
- Level 4 – Southern Façade (Surgery Room –  $150\mu\text{ms}^{-1}$  Criteria):
  - No exceedances observed during monitoring period.

## 5.2.2 Charles Perkins Centre:

- Southern Corridor (Imaging):
  - Exceedances of B2 VC-B criteria which display characteristics consistent with construction activity were observed at the monitoring station during construction hours on the following dates during the monitoring period:
    - 11/12/2024.
    - 13/12/2024.
    - 16/12/2024.
    - 17/12/2024.
    - 18/12/2024.
  - Exceedances are generally within 100% of the conservative VC-B criteria.
  - The maximum level measured during the monitoring period was  $65\mu\text{ms}^{-1}$  on 04/12/2024.
  - Exceedances are generally observed at 12.5Hz, likely to be the natural frequency of the CPC suspended slab. Exceedances at frequencies exclusive of 12.5Hz, 16Hz and 20Hz are rarely observed.
  - With regards to the monitoring period within the CPC Basement, we note the following:
    - Exceedances throughout the monitoring period may have been associated with the excavation works being undertaken at the corner of Lambie Dew Drive and John Hopkins Drive.
    - Works were undertaken with the smallest available excavator, and due to time factors, the equipment was not reselected, in order to shorten the period of impact on surrounding sensitive receivers.
    - When comparing the results of the B2 monitoring location with other surrounding monitors, we note that the B2 monitor is located on a suspended slab, and hence it is possible that significant amplification of the vibration impacts from these works is occurring and resulting in exceedances at the monitoring location.
    - For many of the measured exceedances there is a lack of correlation between the southern corridor monitor and the other monitoring stations surrounding the project site. Therefore, it is likely that some or most of these spikes have been caused by factors exclusive of the construction activity within the RPA Hospital project area.

- It is prudent to note that there were significant exceedances observed within the monitoring period which were outside of hours of works throughout the period, noting that various repeated exceedances were observed before 7am and after 5.00pm and on weekend days during the period. These events have not been attributed to the impacts of the construction.
- Observation Room (Adjoining corridor):
  - No exceedances were measured throughout the monitoring period.

### 5.2.3 RPA Hospital Main Building – Level 03 NICU:

- Exceedance events were measured on the following dates:
  - 17/12/2024 – 2.30pm and 4.30pm – Marginal  $120\mu\text{ms}^{-1}$  (20%).
  - 19/12/2024 – 11.45am-12pm –  $154\mu\text{ms}^{-1}$  (54%).
- Monitoring of vibration impacts to continue for L3 floorplate.

### 5.2.4 Susan Wakil Health Building:

- No exceedances of criteria were observed due to construction works during the monitoring period.

## 6 CONCLUSION

Noise and vibration monitoring has been conducted by Acoustic Logic for the Early Works being undertaken for SSD-47662959, the RPA Hospital Redevelopment, located at 50 Missenden Road, Camperdown.

This report covers the twenty-seventh fortnight since the beginning of construction monitoring, being between Monday 9<sup>th</sup> December, 2024 and Sunday 22<sup>nd</sup> December, 2024 (Extended to 31/12/2024 noting Christmas Shutdown period.)

Monitoring results have been provided with reference to the Noise and Vibration Management Levels established within the *Early Works Construction Noise and Vibration Management Plan*, prepared by this office, or as they have been updated throughout the construction process, specifically pertaining to the recommendations of the *Baseline Monitoring Results* and *Construction Noise and Vibration Monitoring Report 1*, both also prepared by this office (Ref: 20230239.9/0610A/R1/LA, 20230239.17/0412A/R1/LA and 20230239.17/2301A/R0/LA).

Noise monitoring results have been provided within Appendix A, whilst vibration monitoring results have been provided throughout Appendix B of this letter.

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,



Acoustic Logic Pty Ltd  
Lachlan Abood

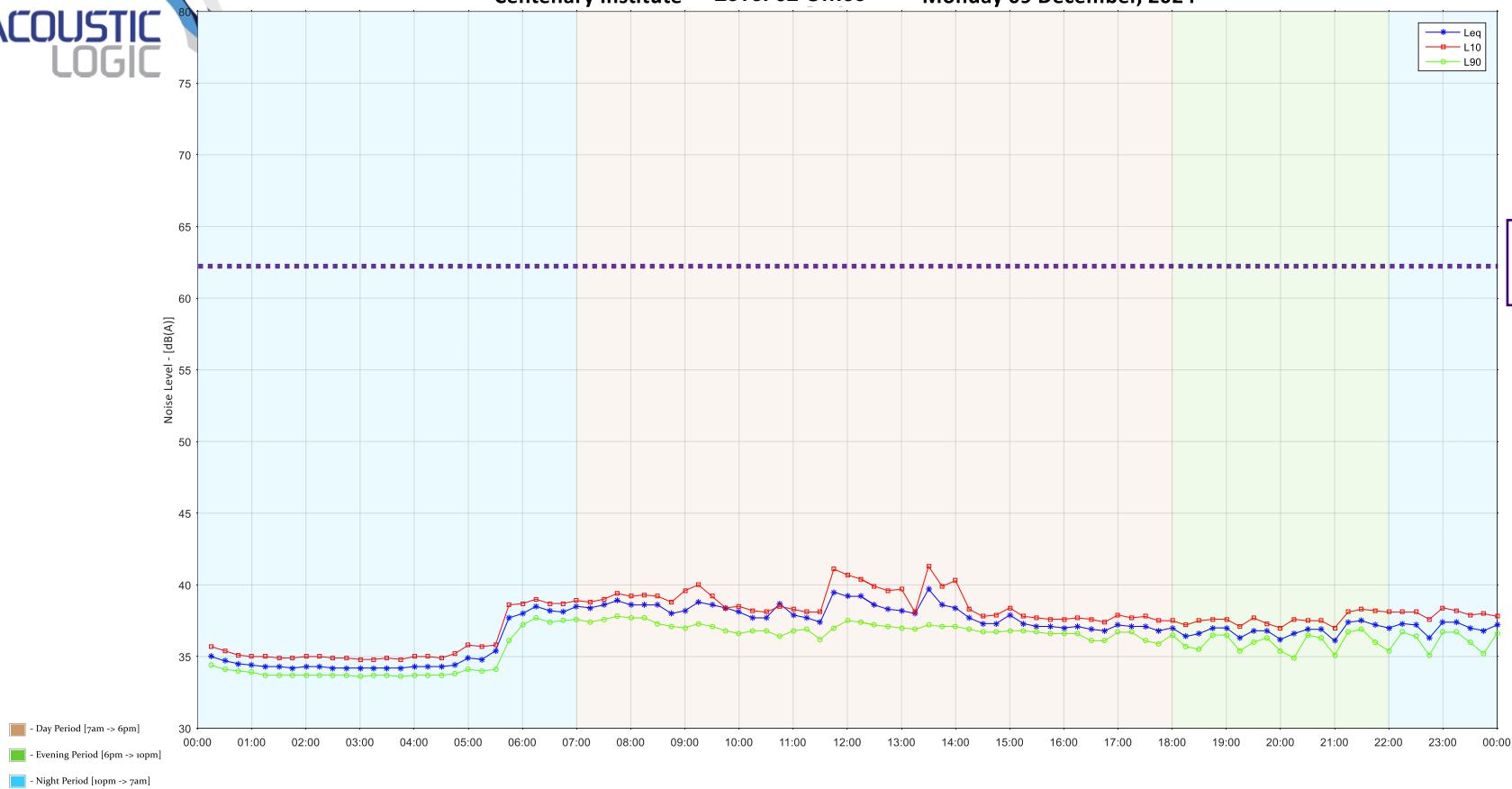
## **APPENDIX A – NOISE MONITORING RESULTS**

### **CENTENARY INSTITUTE – LEVEL 4 SURGERY ROOM (SOUTHERN FAÇADE)**



Centenary Institute - Level 02 Office

Monday 09 December, 2024

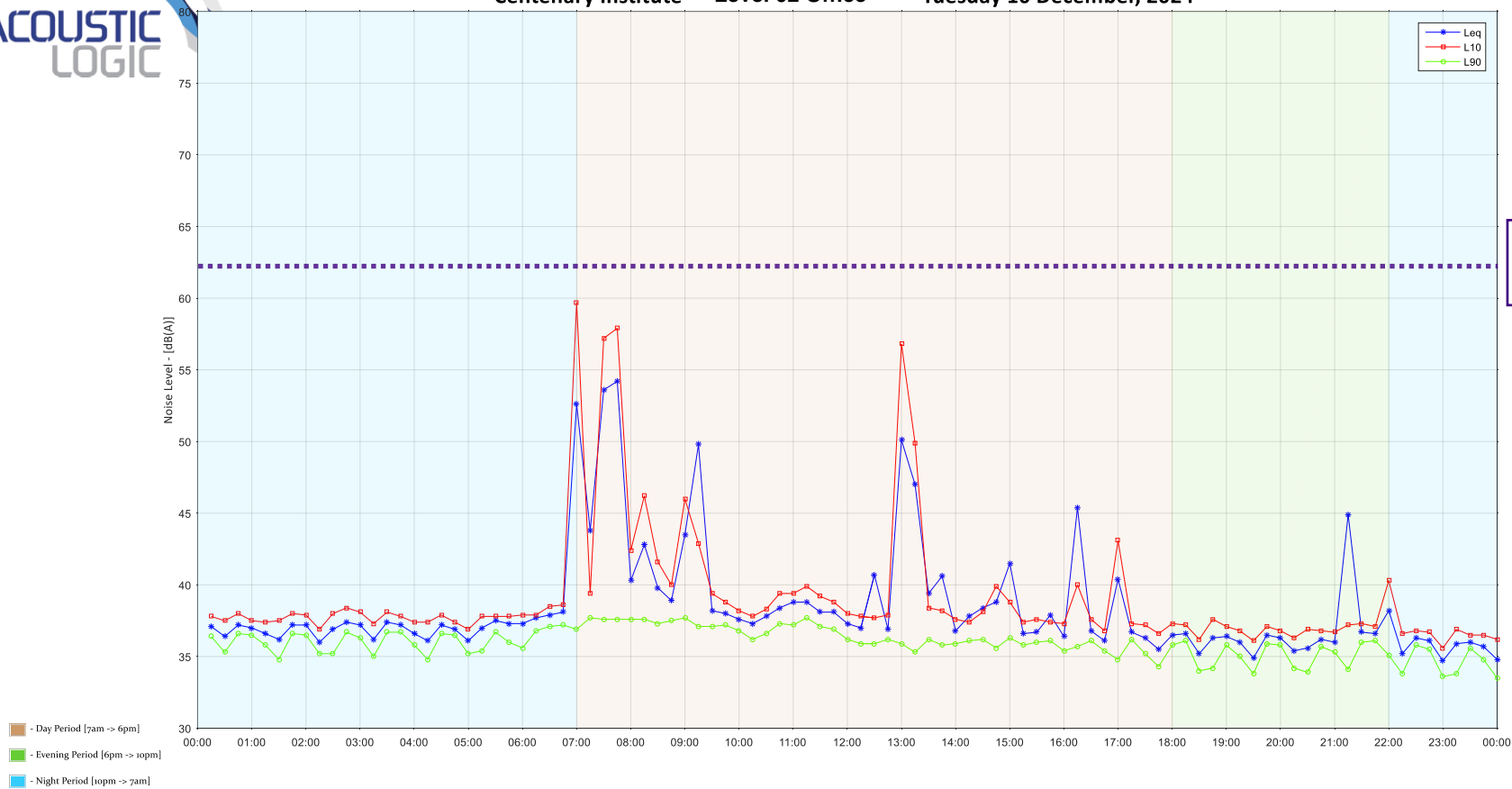


Animal Housing / Breeding /  
Observation Room NML  
 $\leq 62\text{dB(A)}L_{\text{eq}}$



Centenary Institute - Level 02 Office

Tuesday 10 December, 2024

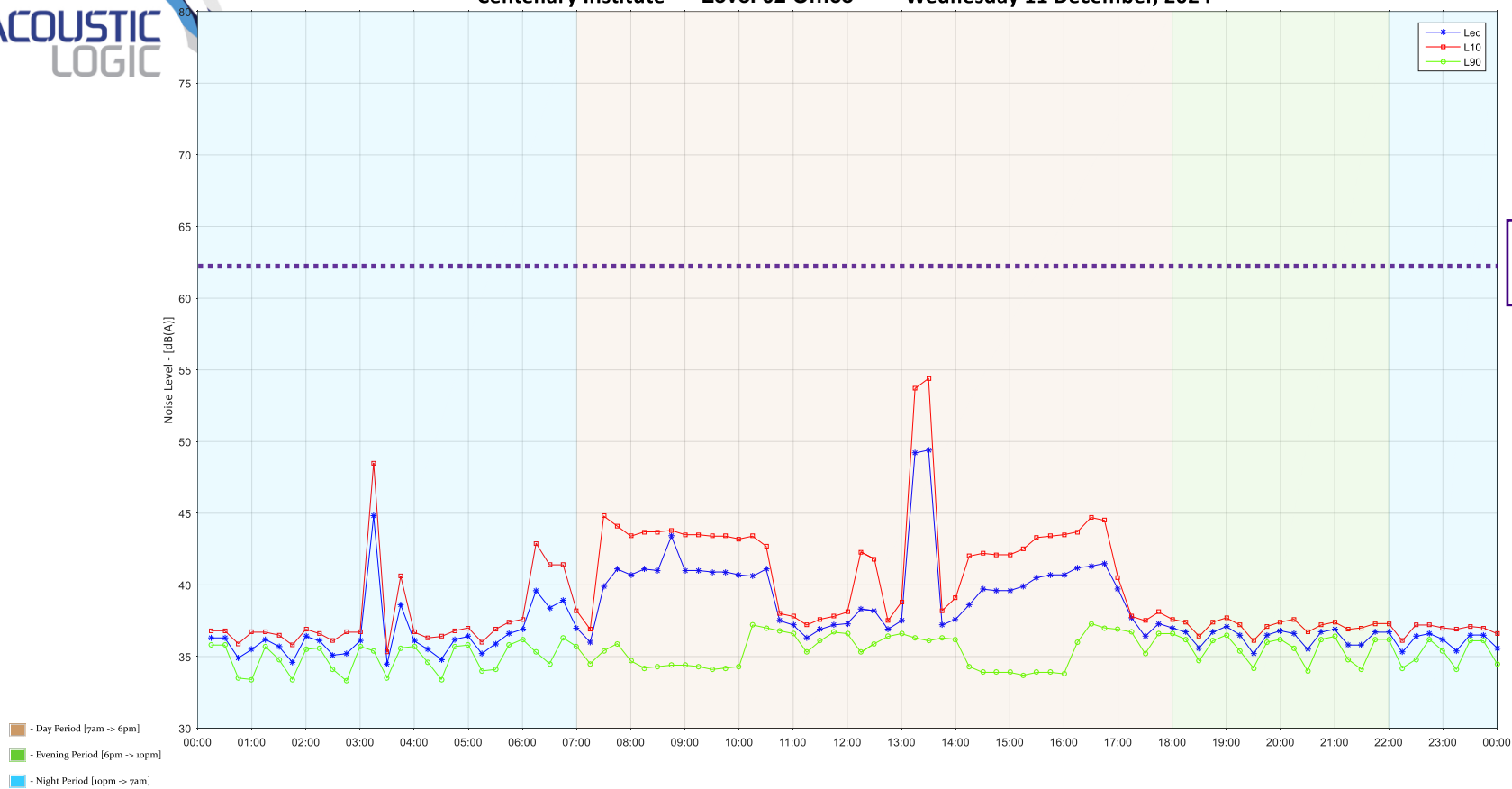


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Wednesday 11 December, 2024

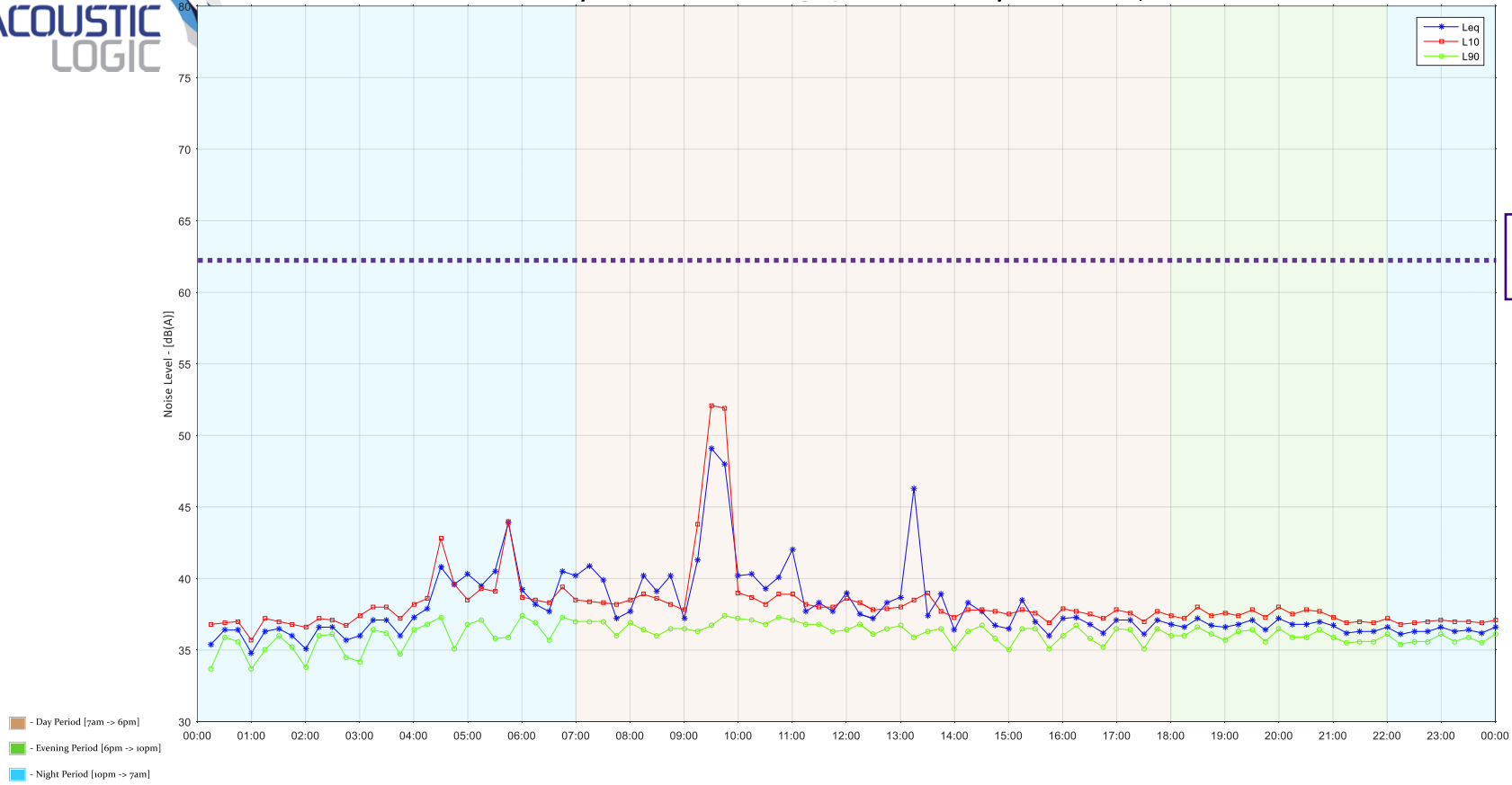


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Thursday 12 December, 2024

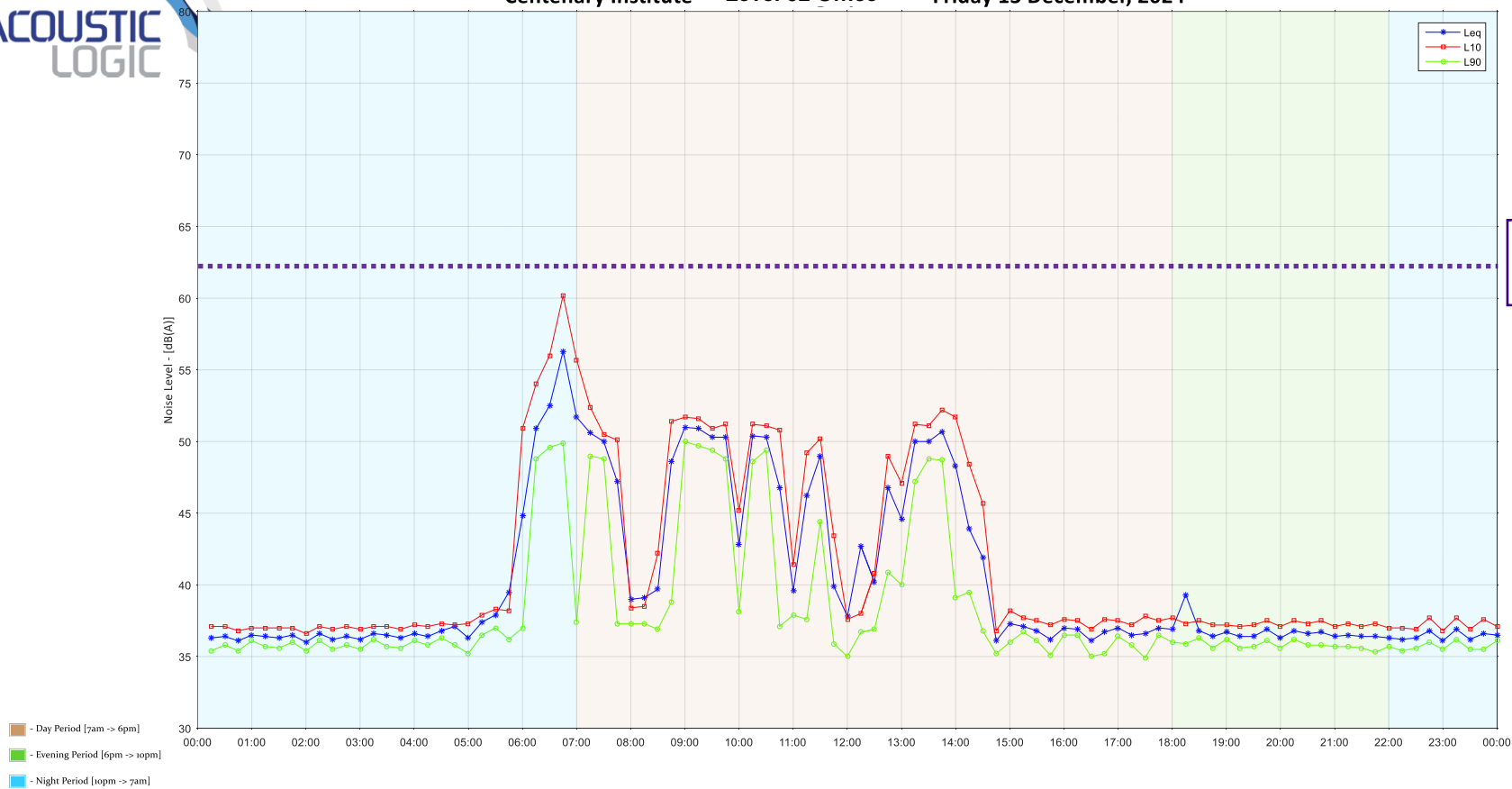


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Friday 13 December, 2024

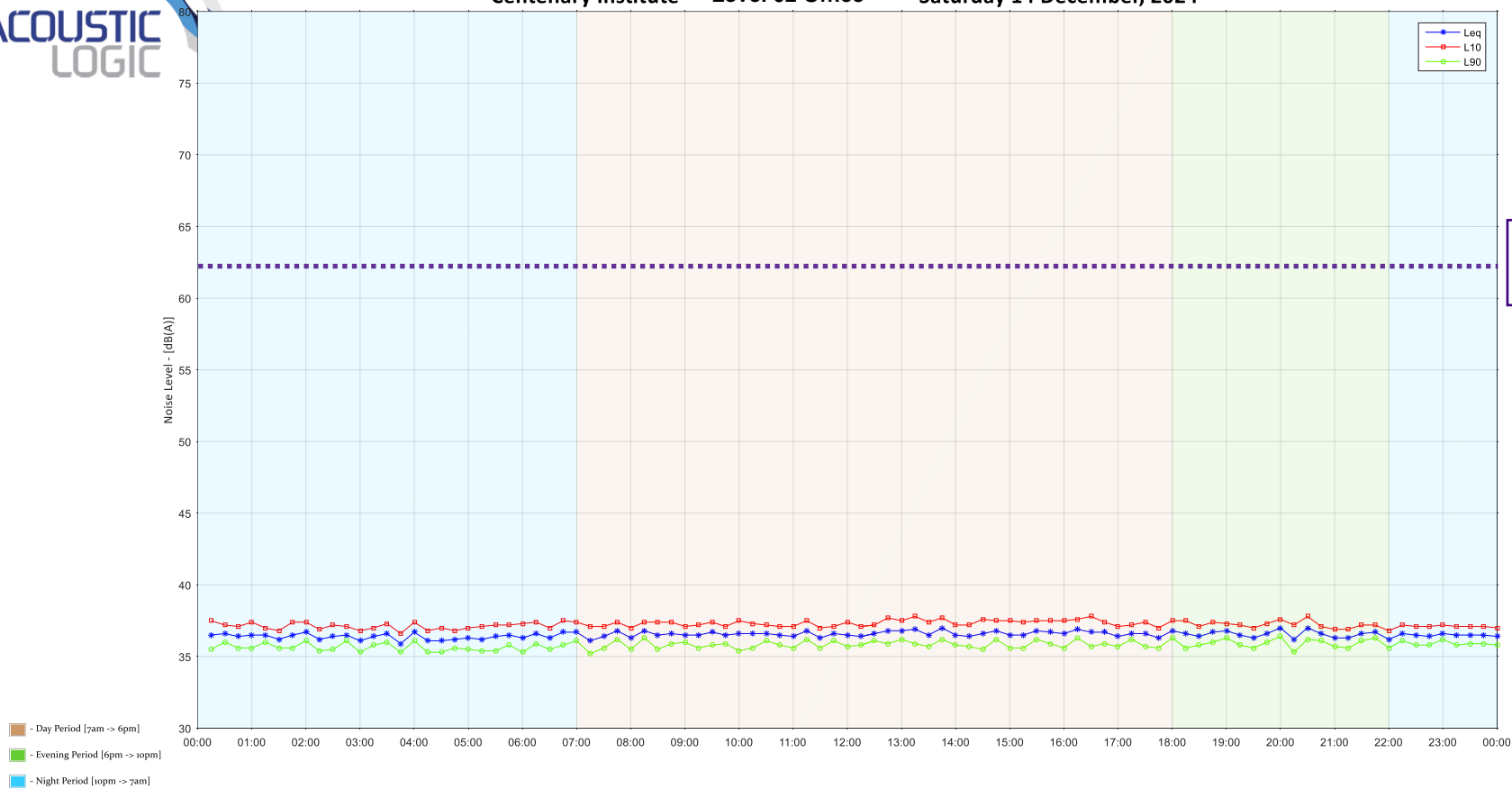


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Saturday 14 December, 2024

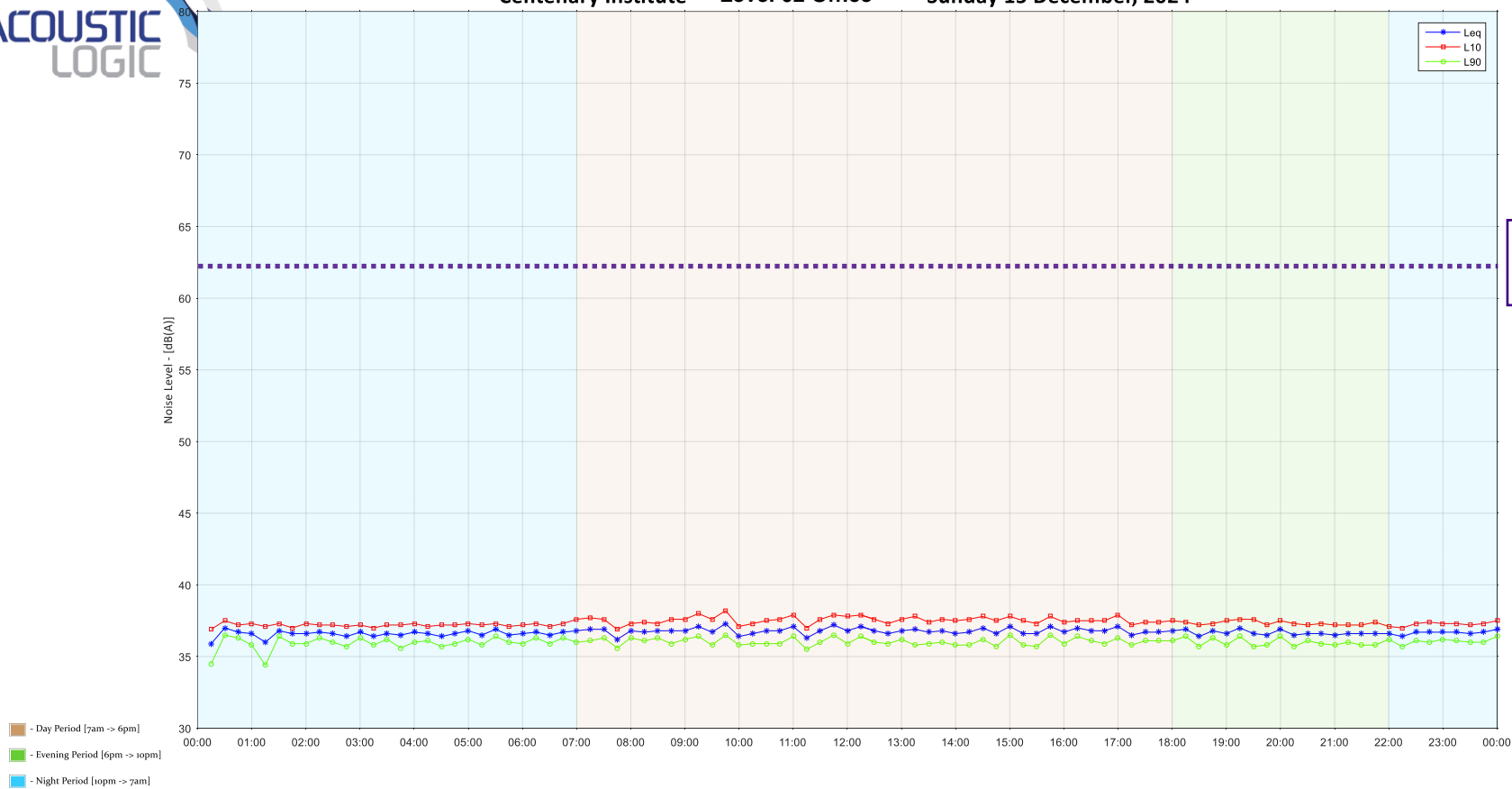


Animal Housing / Breeding /  
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Centenary Institute - Level 02 Office

Sunday 15 December, 2024

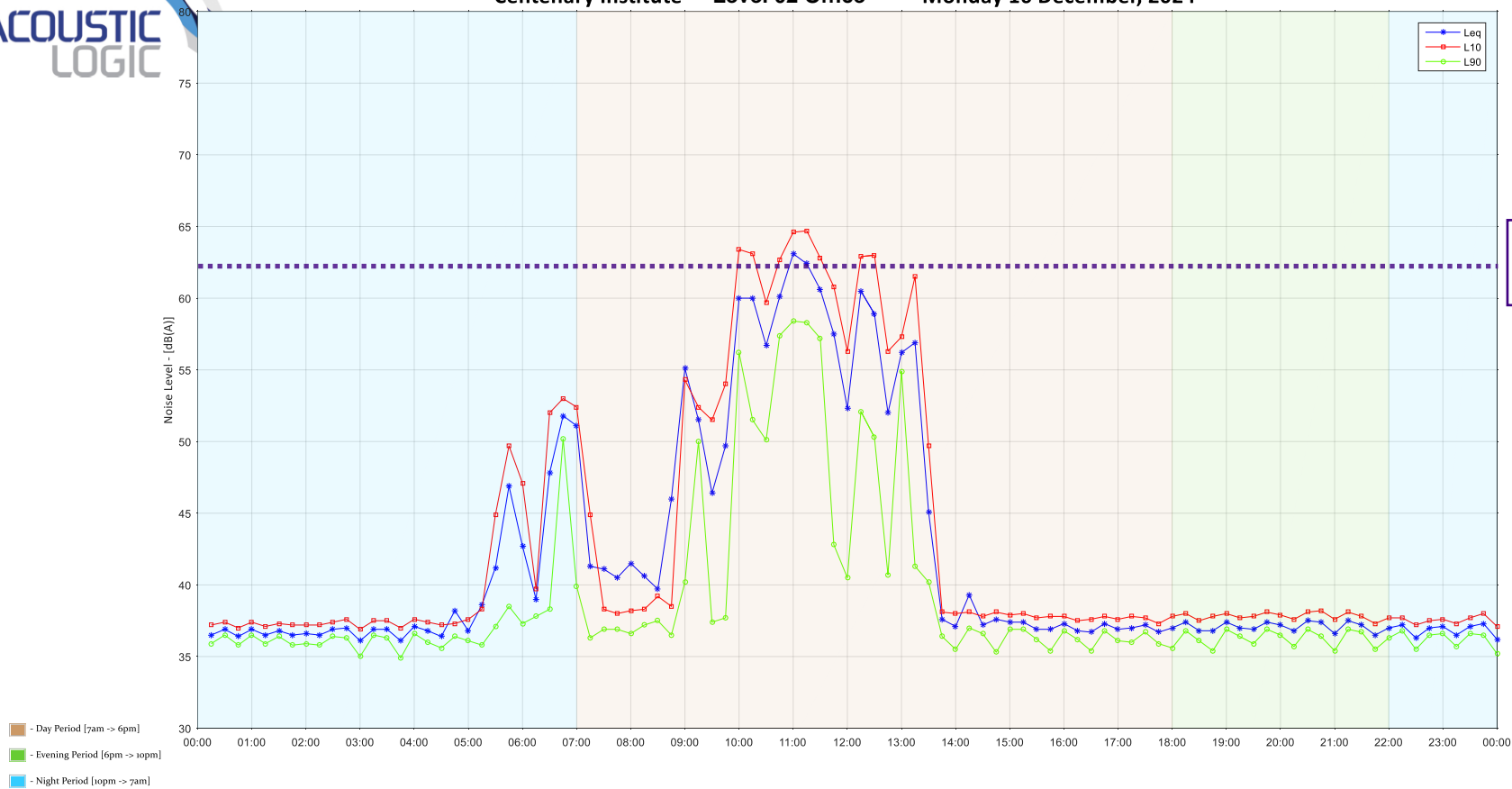


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Monday 16 December, 2024

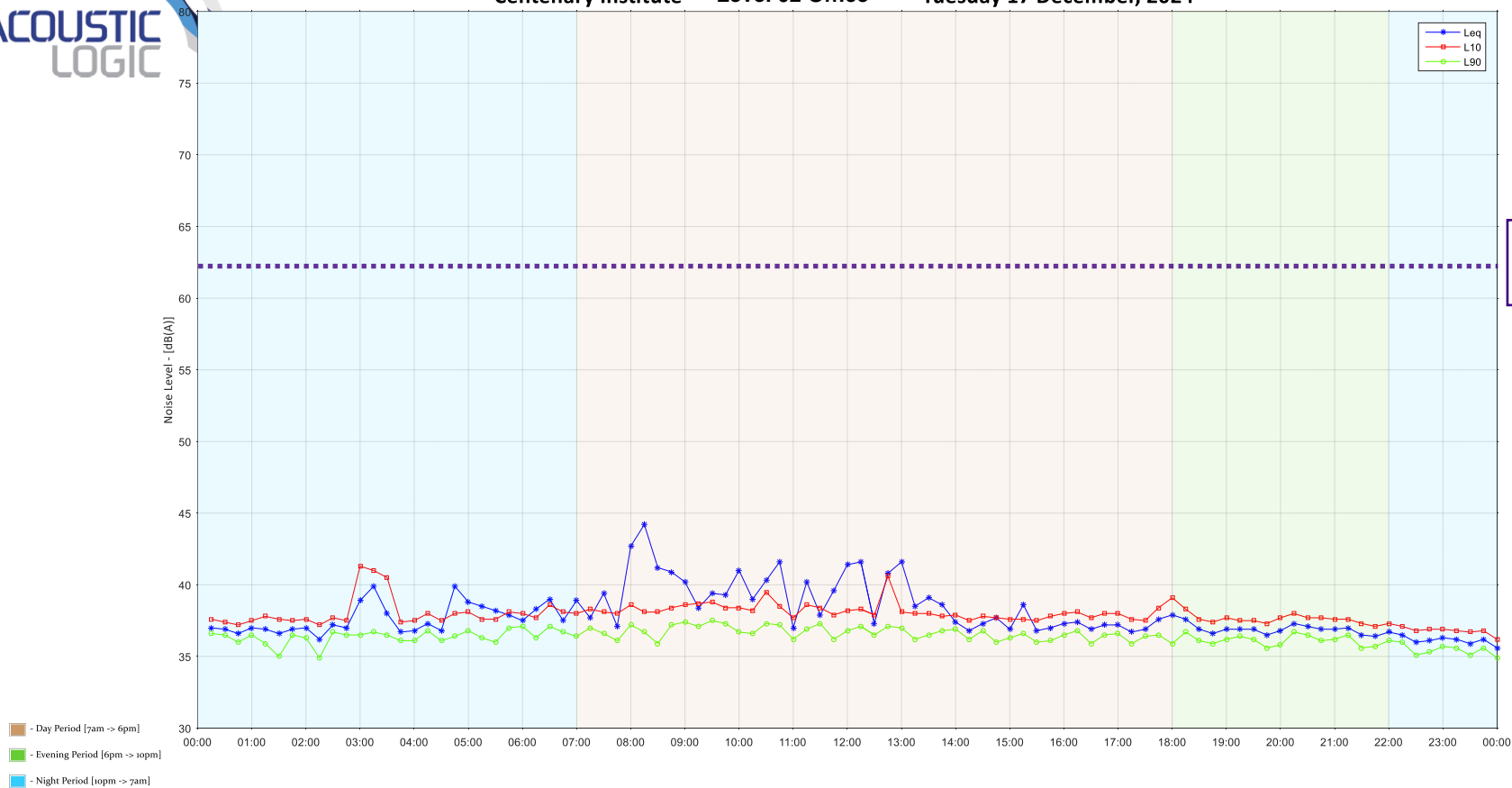


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Tuesday 17 December, 2024

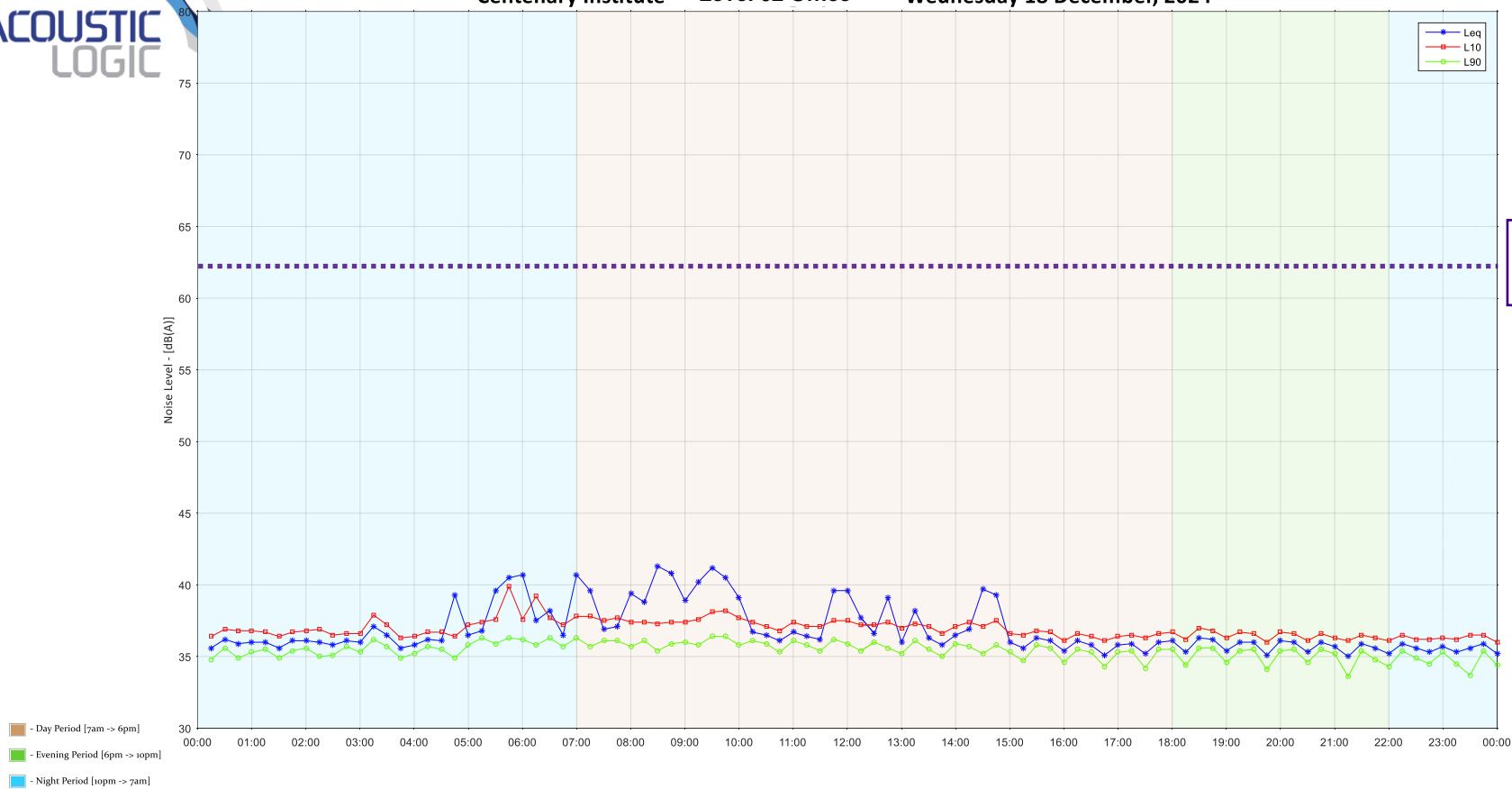


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Wednesday 18 December, 2024

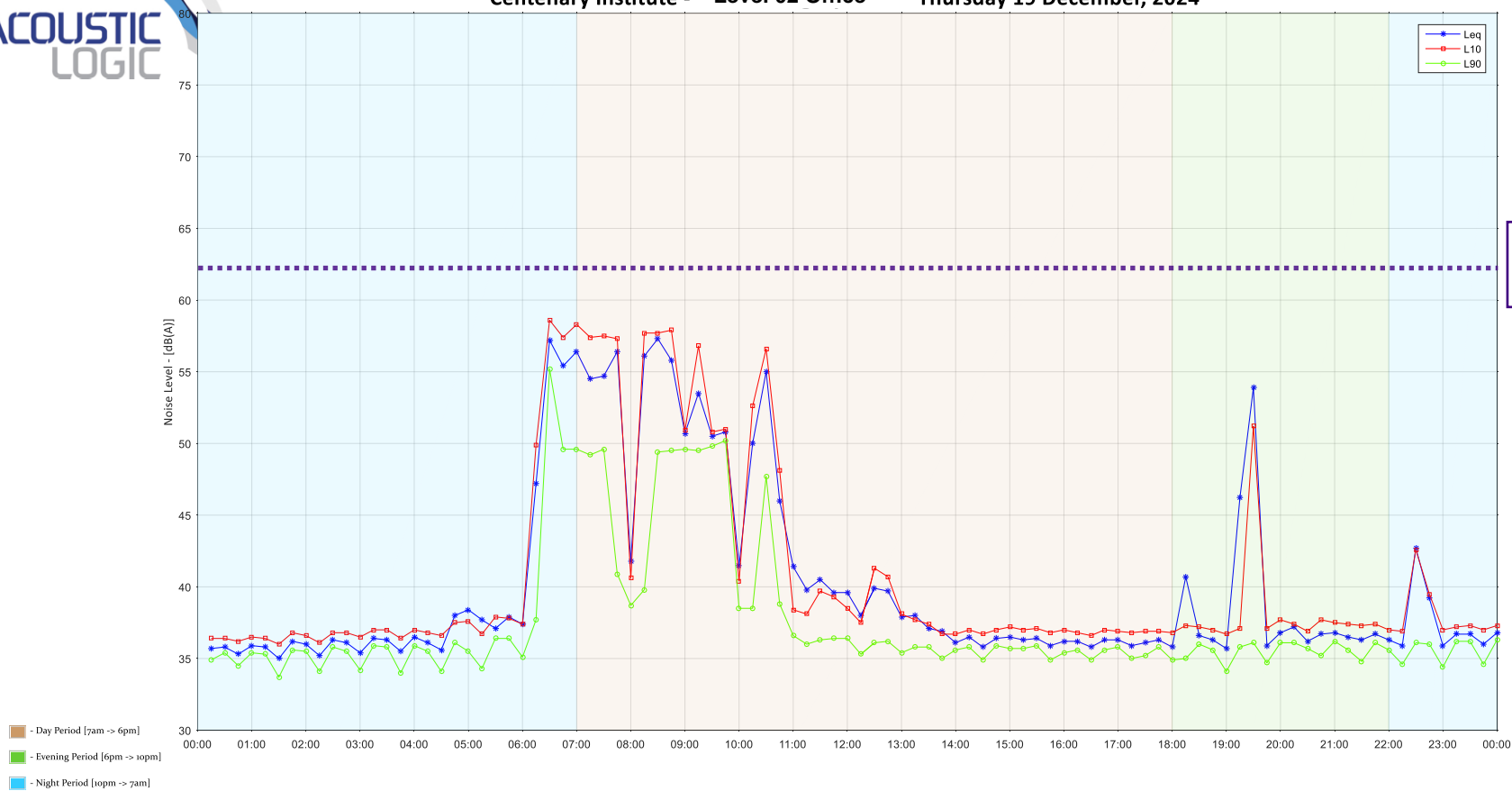


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Thursday 19 December, 2024

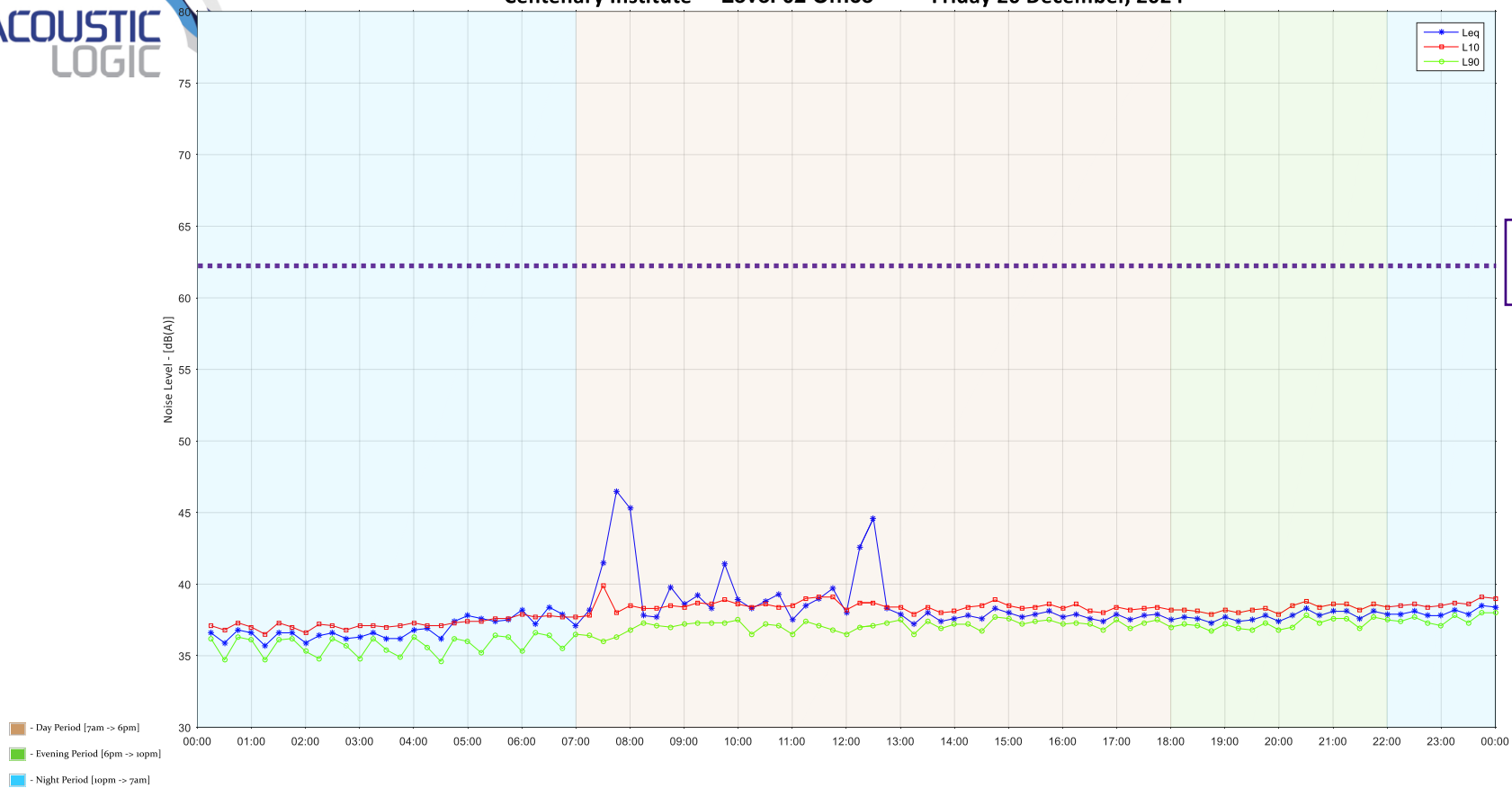


Animal Housing / Breeding /  
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Centenary Institute - Level 02 Office

Friday 20 December, 2024

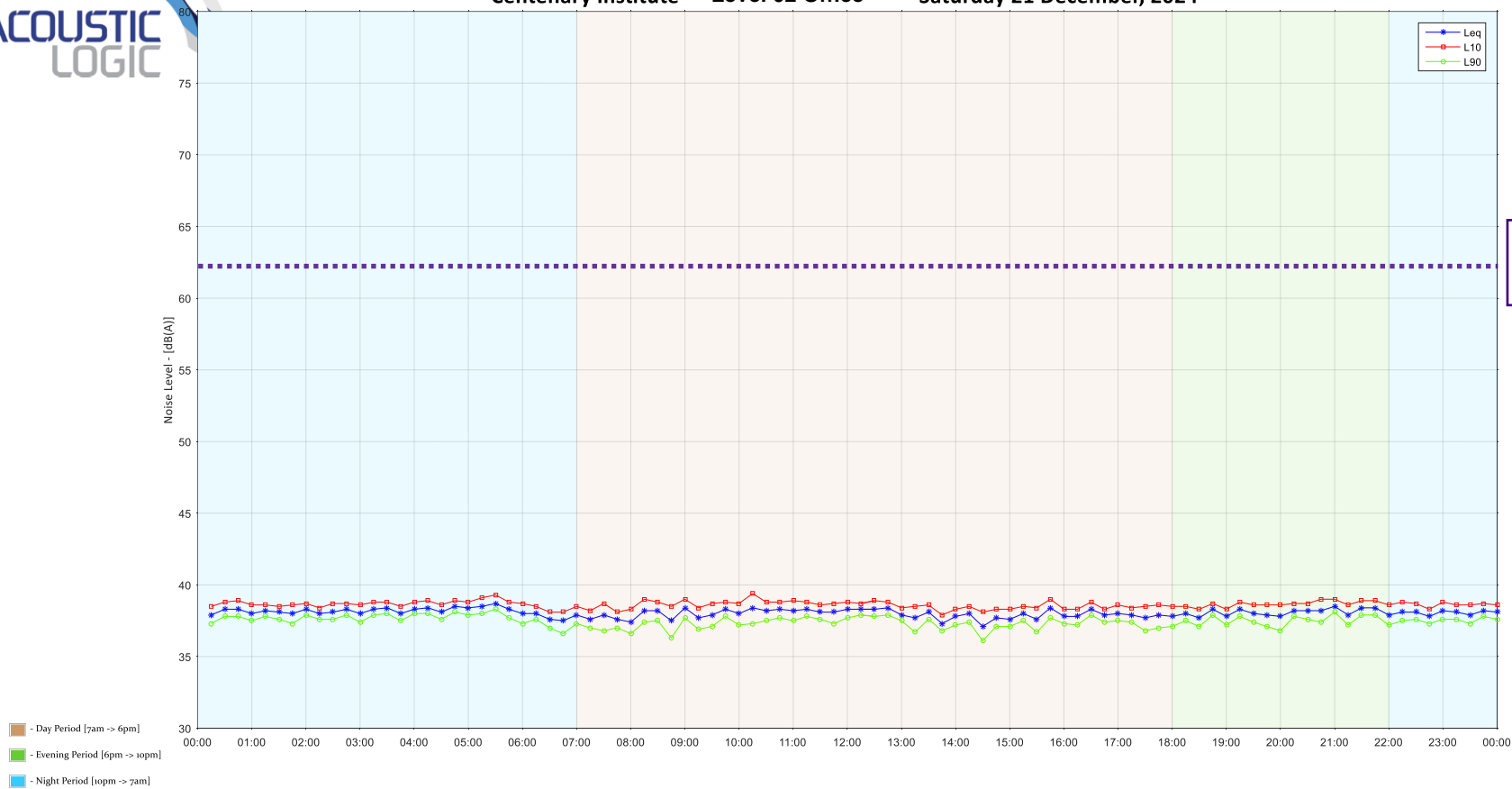


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

Saturday 21 December, 2024

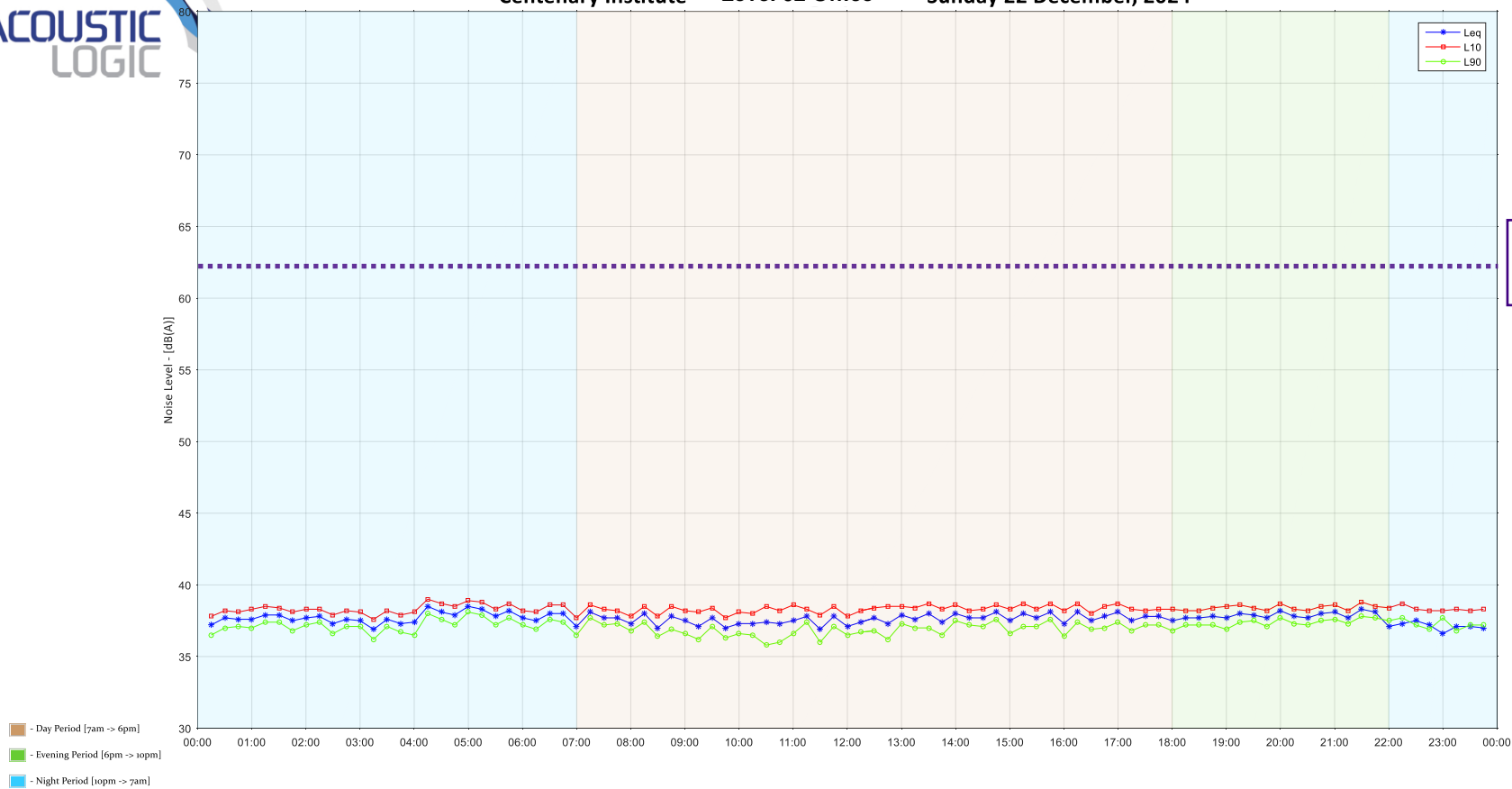


Animal Housing / Breeding /  
Observation Room NML  
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Centenary Institute - Level 02 Office

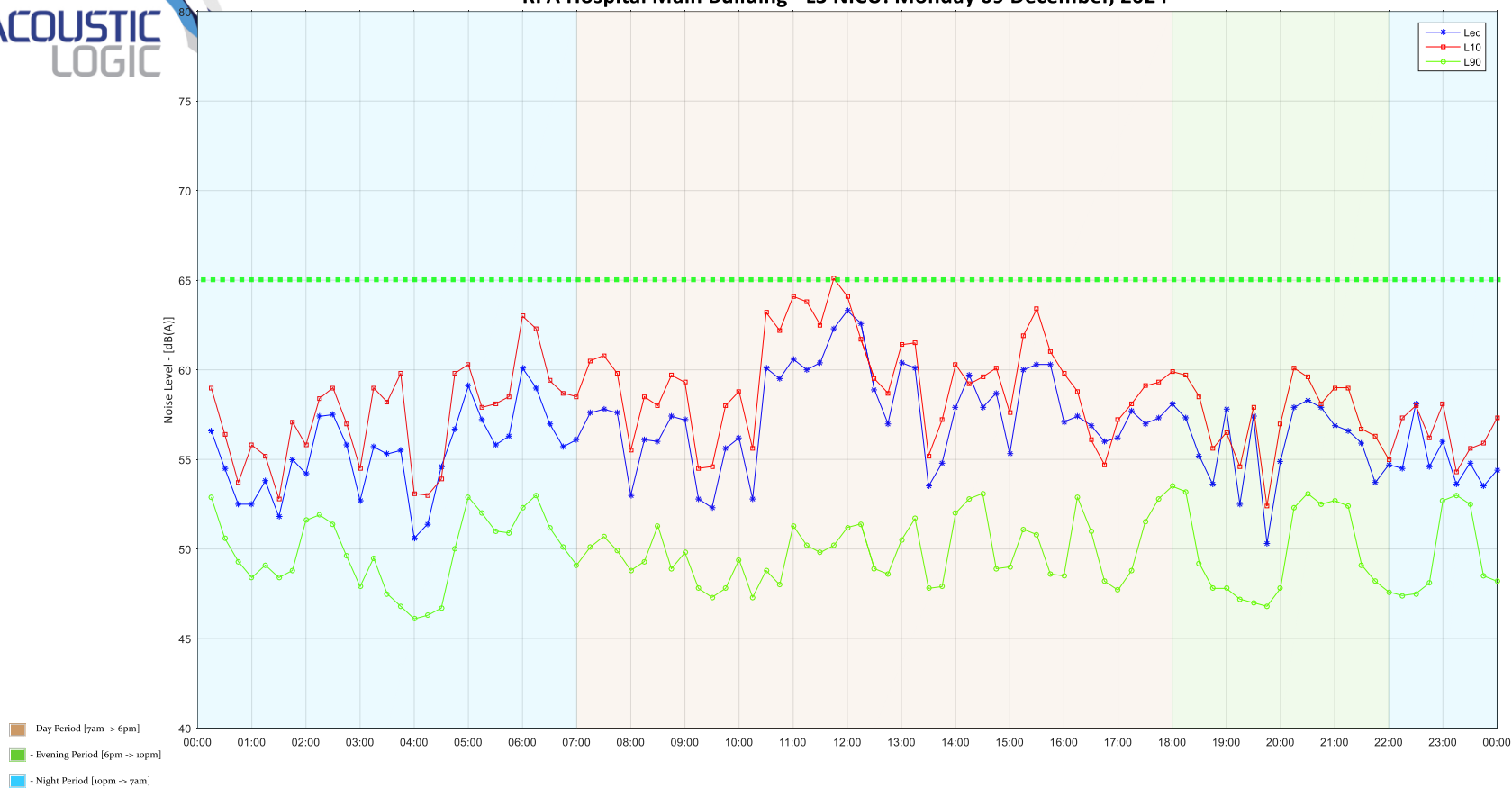
Sunday 22 December, 2024



Animal Housing / Breeding /  
Observation Room NML  
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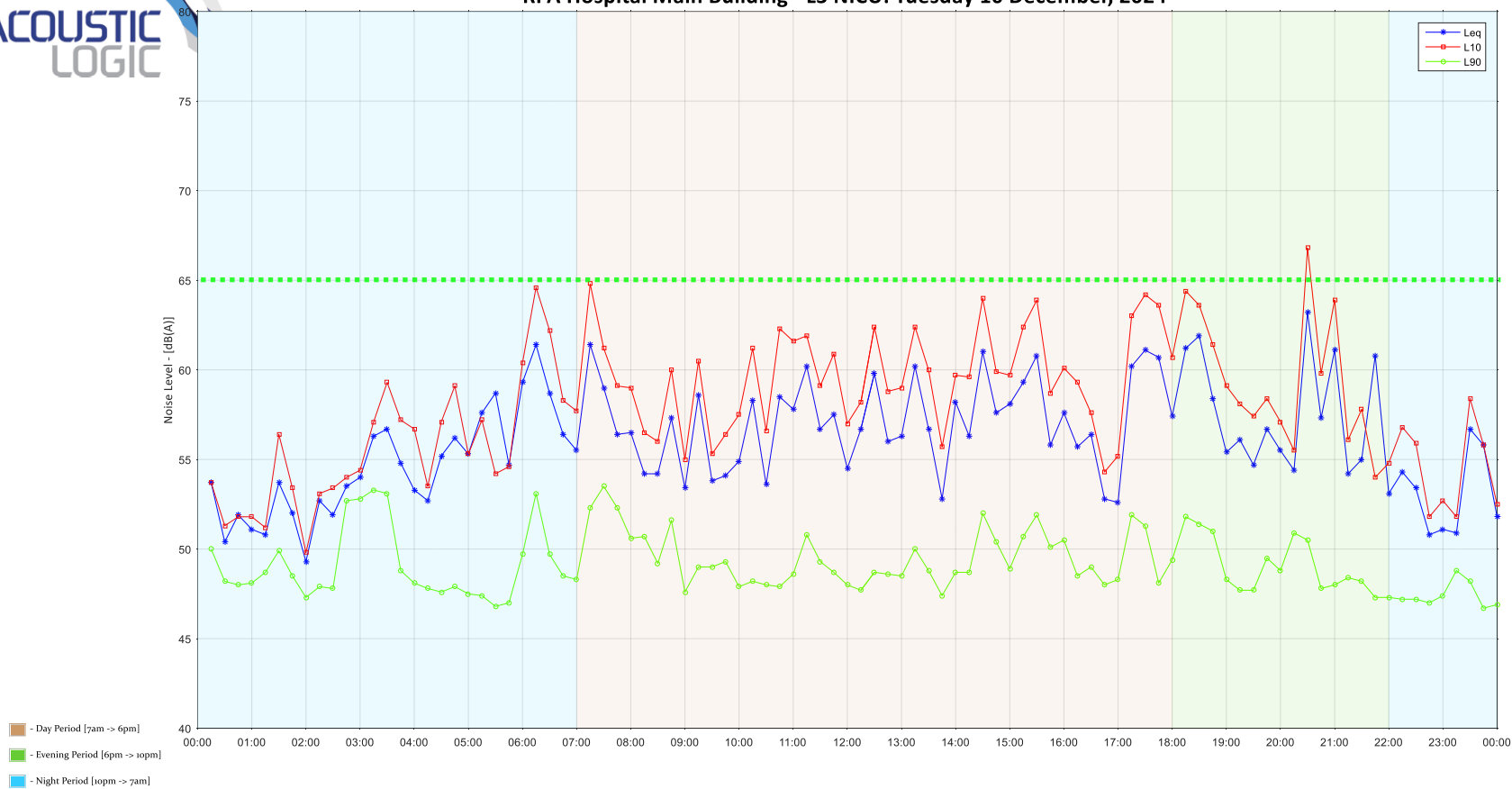
## **RPA HOSPITAL MAIN BUILDING – LEVEL 3 NICU**

# RPA Hospital Main Building - L3 NICU: Monday 09 December, 2024



**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

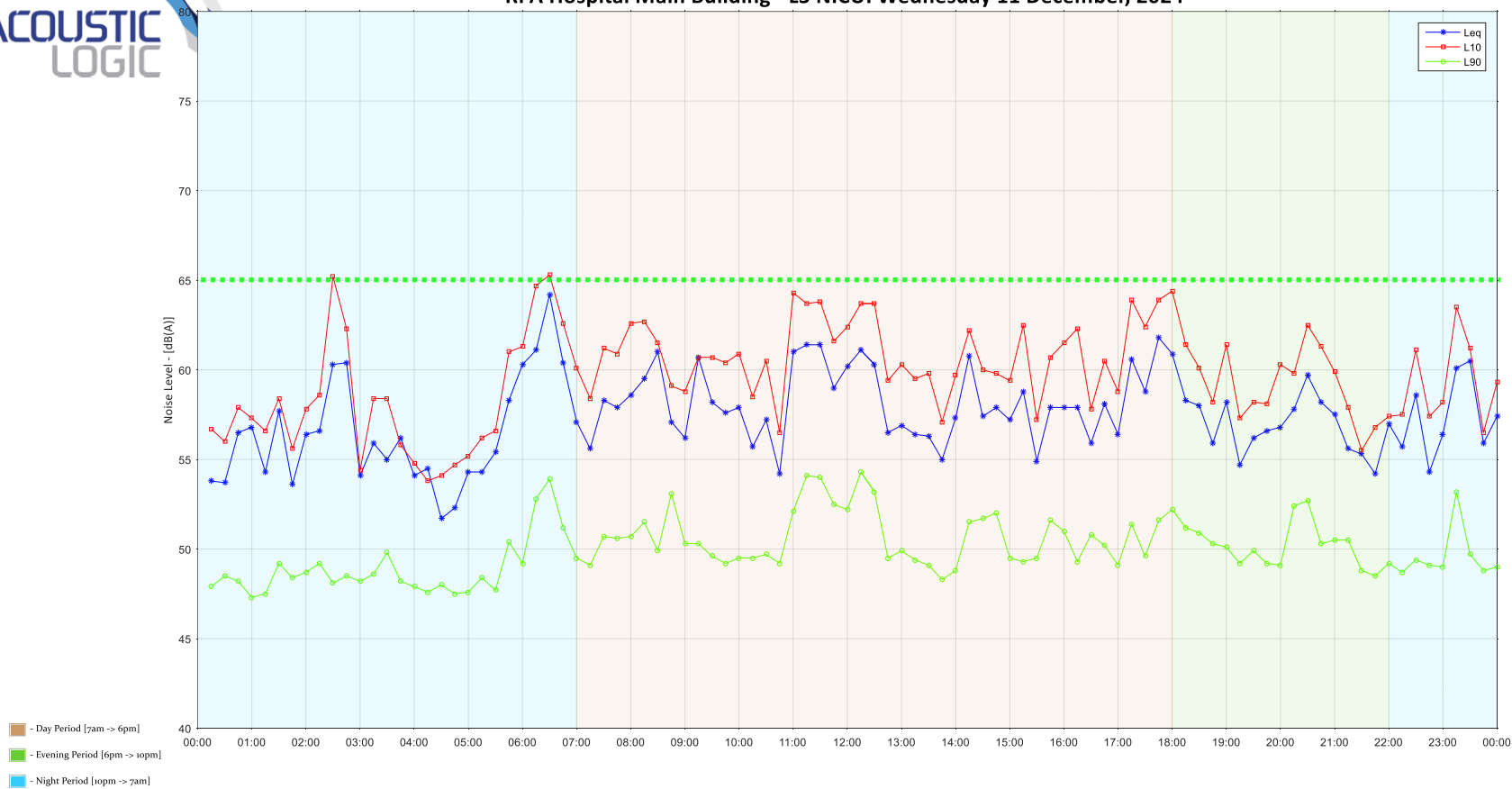
# RPA Hospital Main Building - L3 NICU: Tuesday 10 December, 2024



**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$



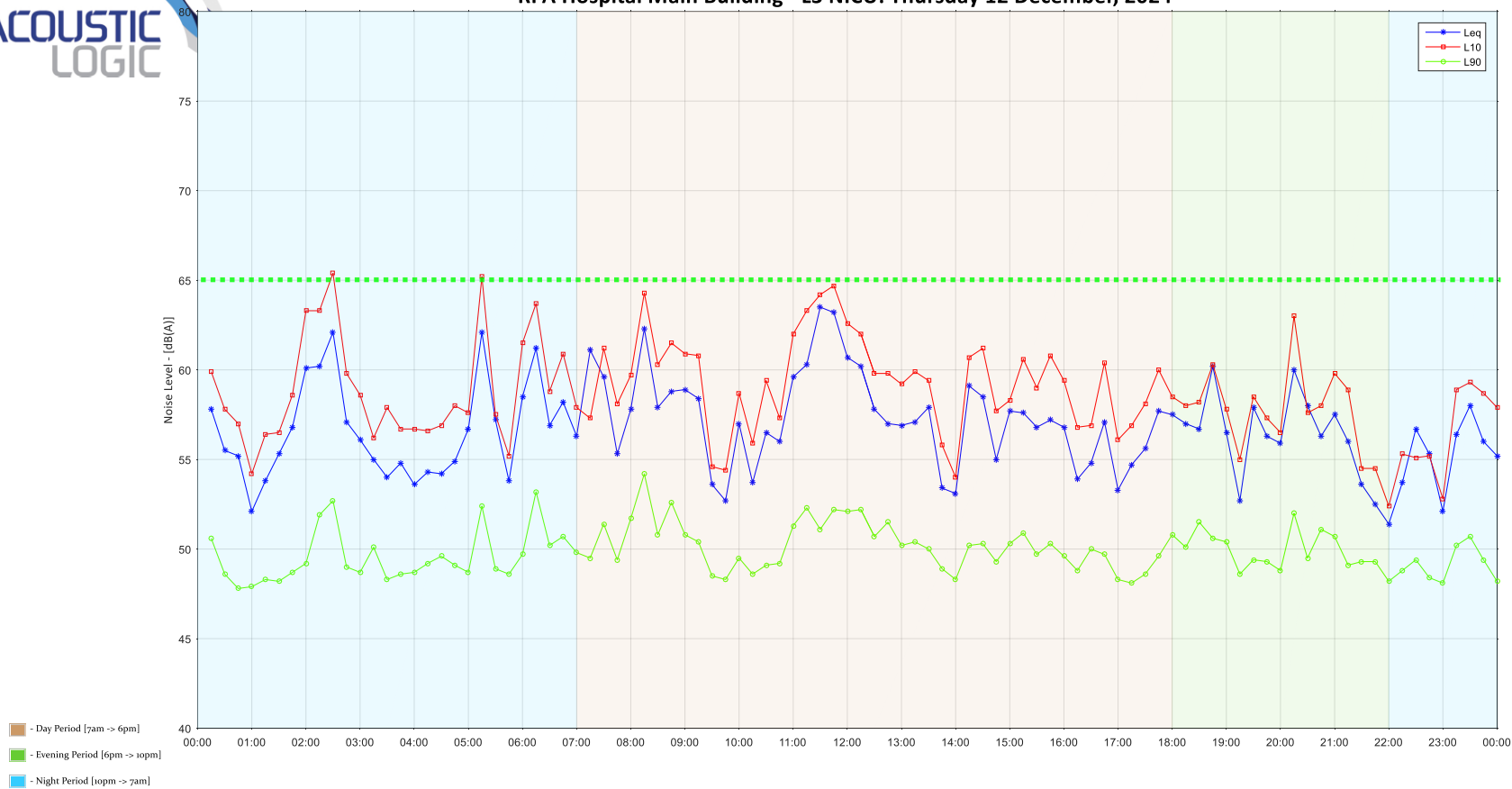
# RPA Hospital Main Building - L3 NICU: Wednesday 11 December, 2024



NICU NML  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$



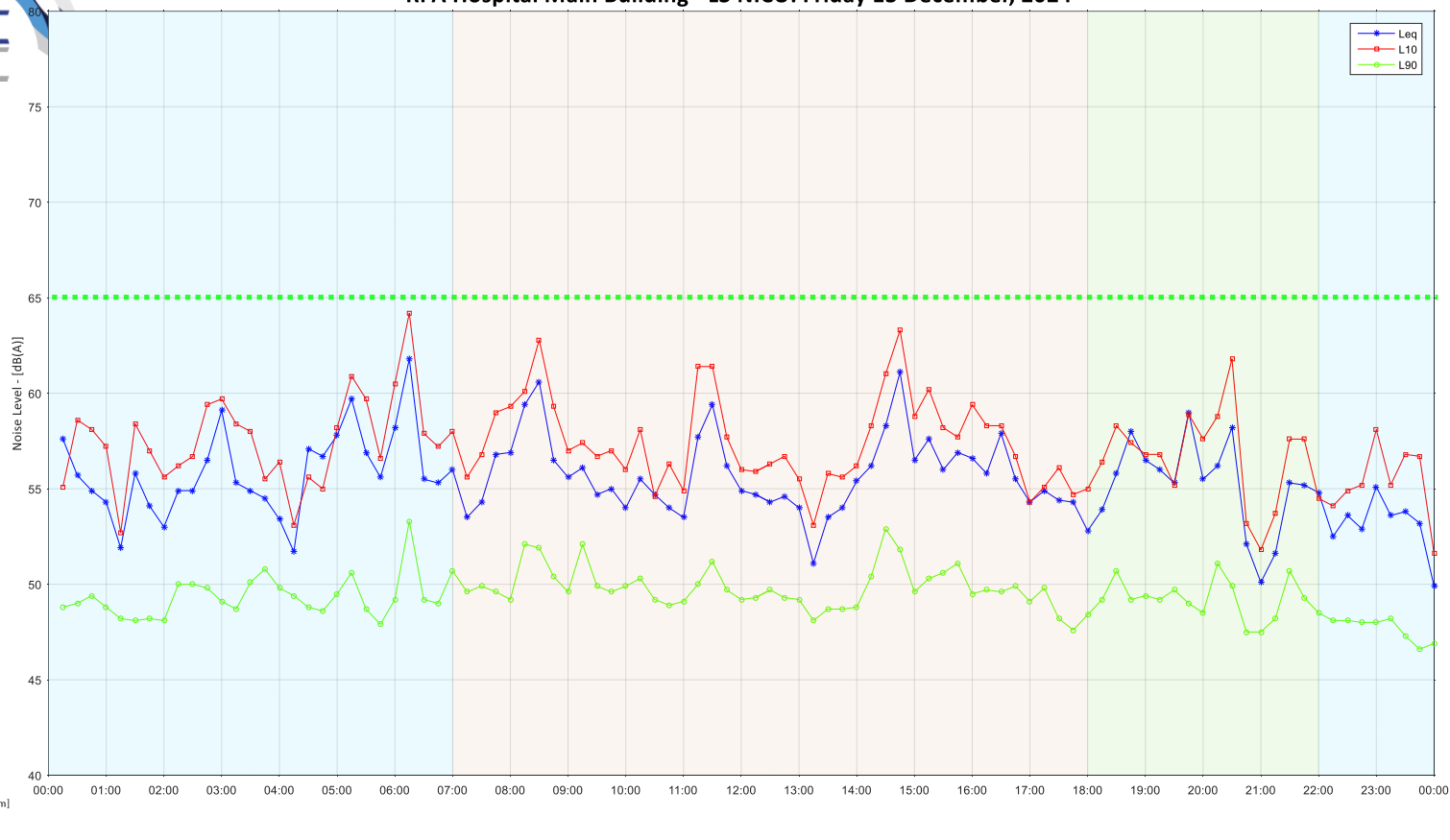
# RPA Hospital Main Building - L3 NICU: Thursday 12 December, 2024



NICU NML  
(Including correction)  
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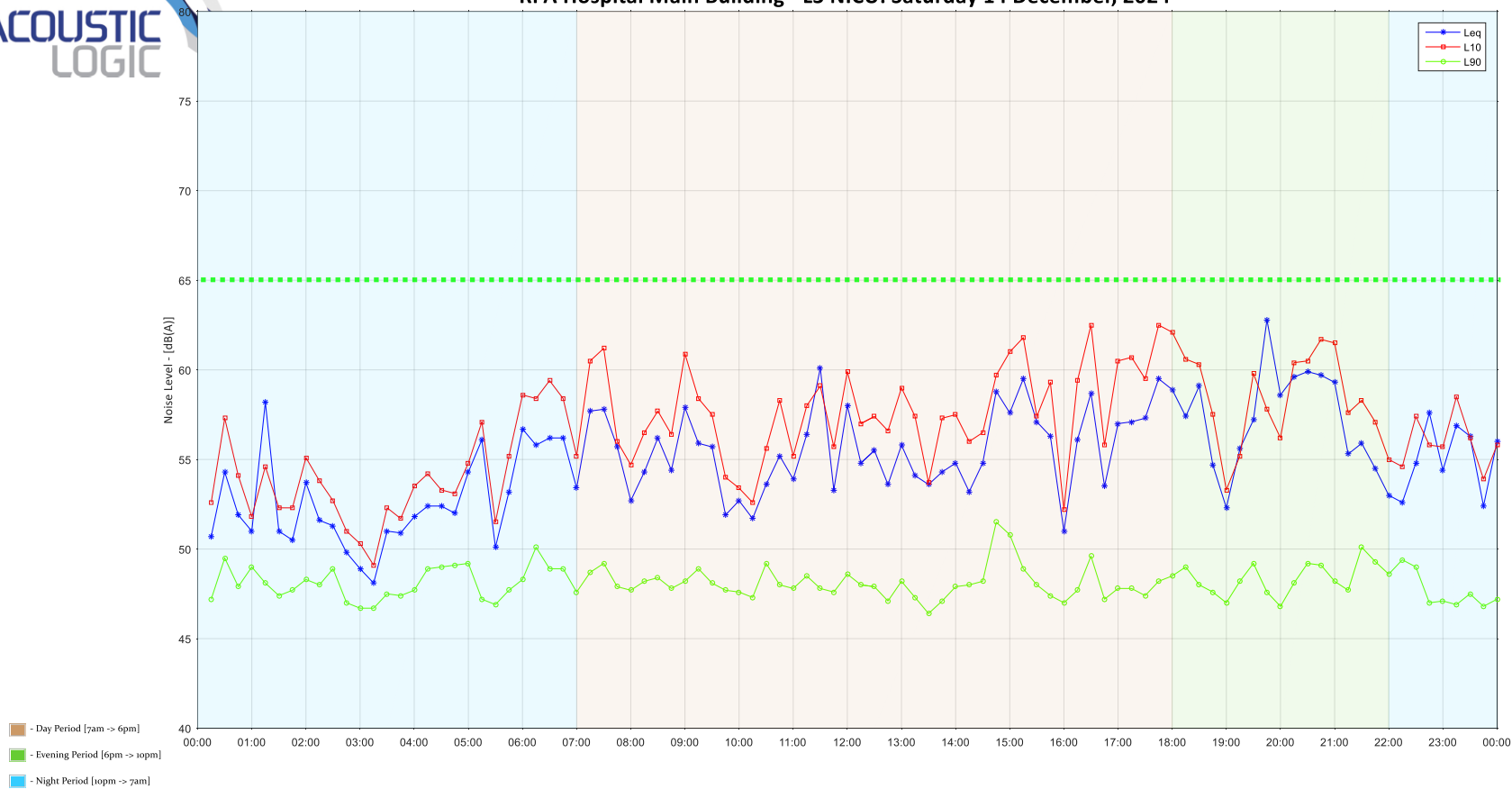


# RPA Hospital Main Building - L3 NICU: Friday 13 December, 2024



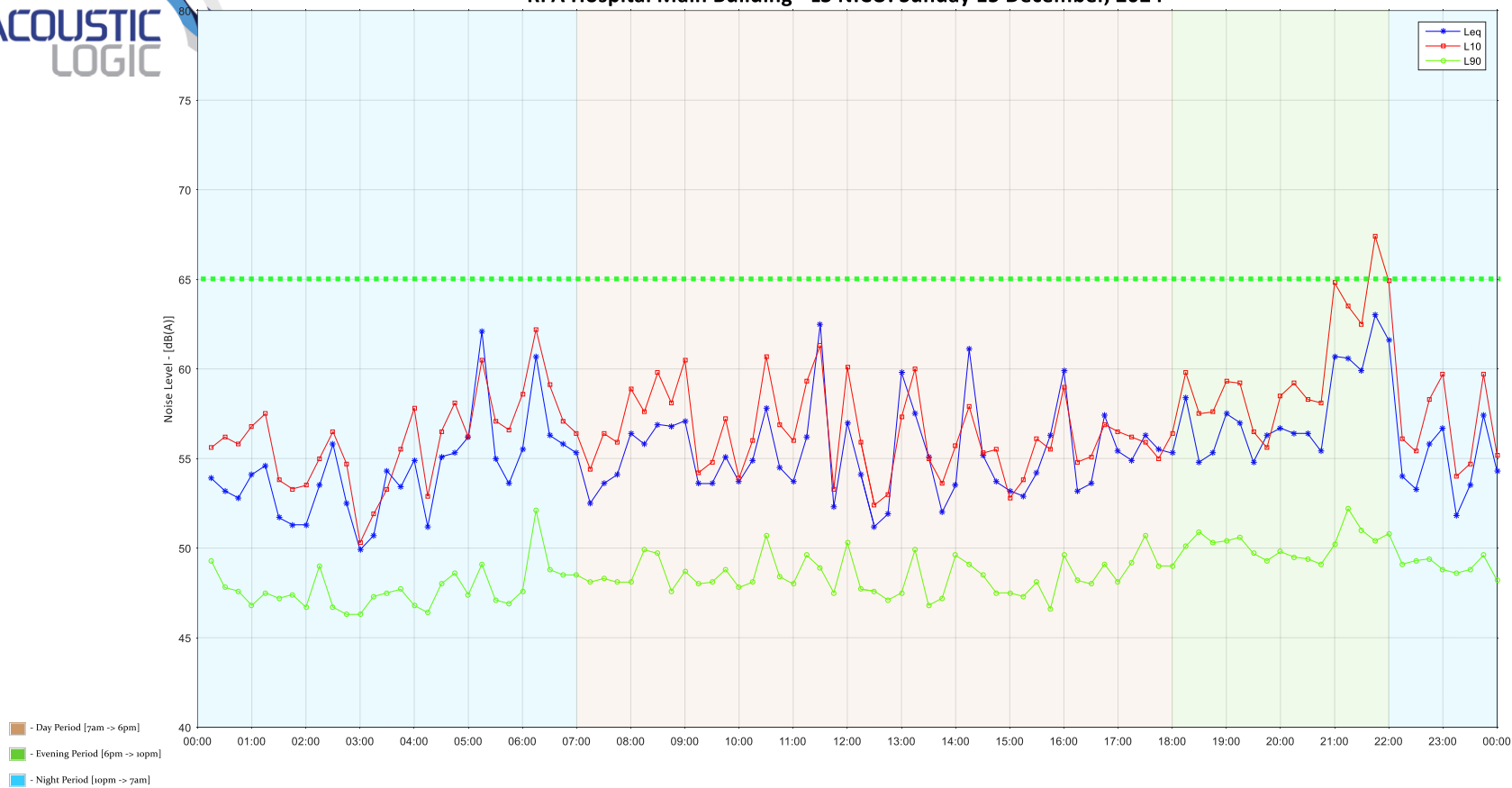
NICU NML  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

# RPA Hospital Main Building - L3 NICU: Saturday 14 December, 2024



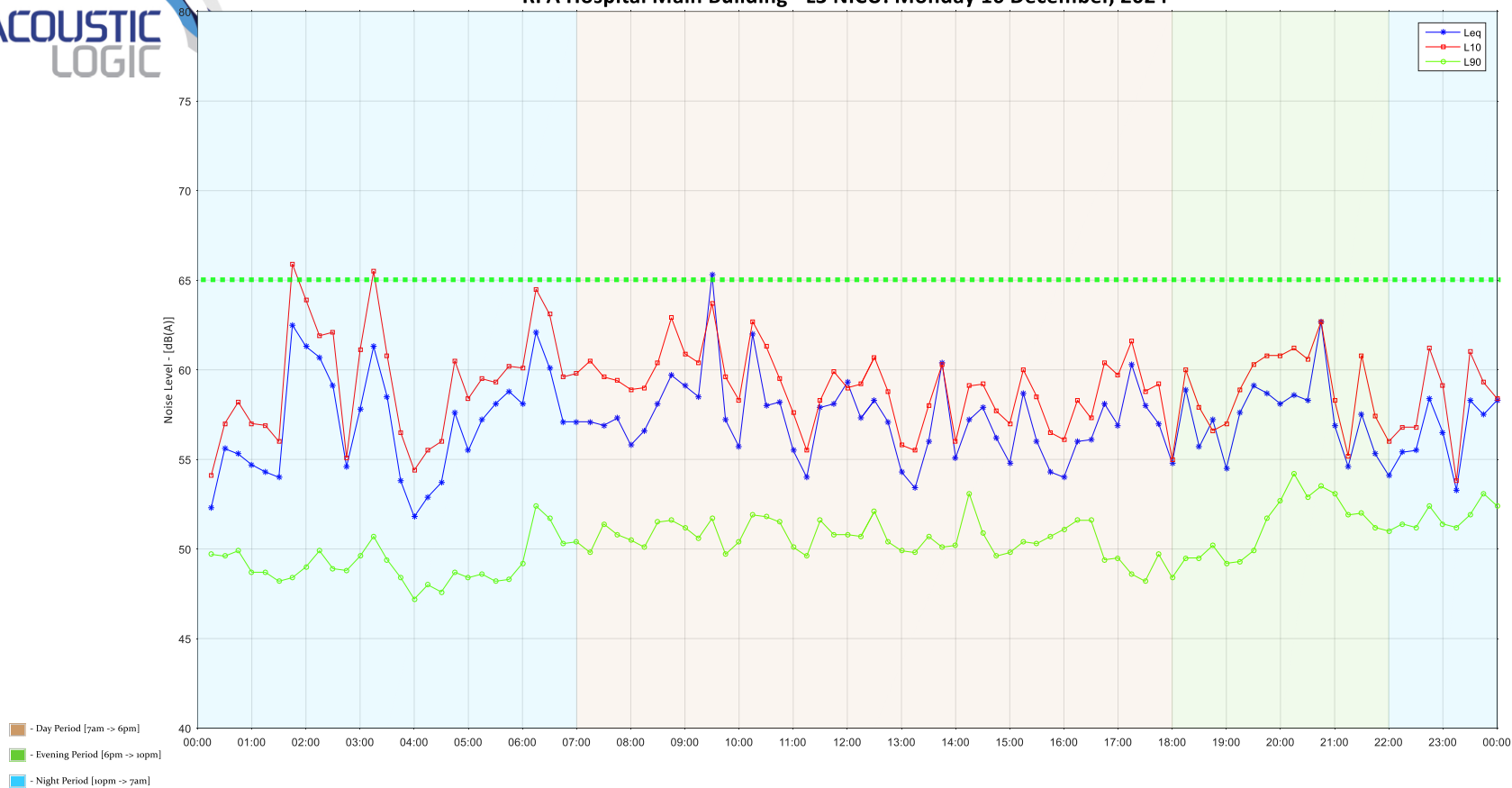
**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

# RPA Hospital Main Building - L3 NICU: Sunday 15 December, 2024



**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

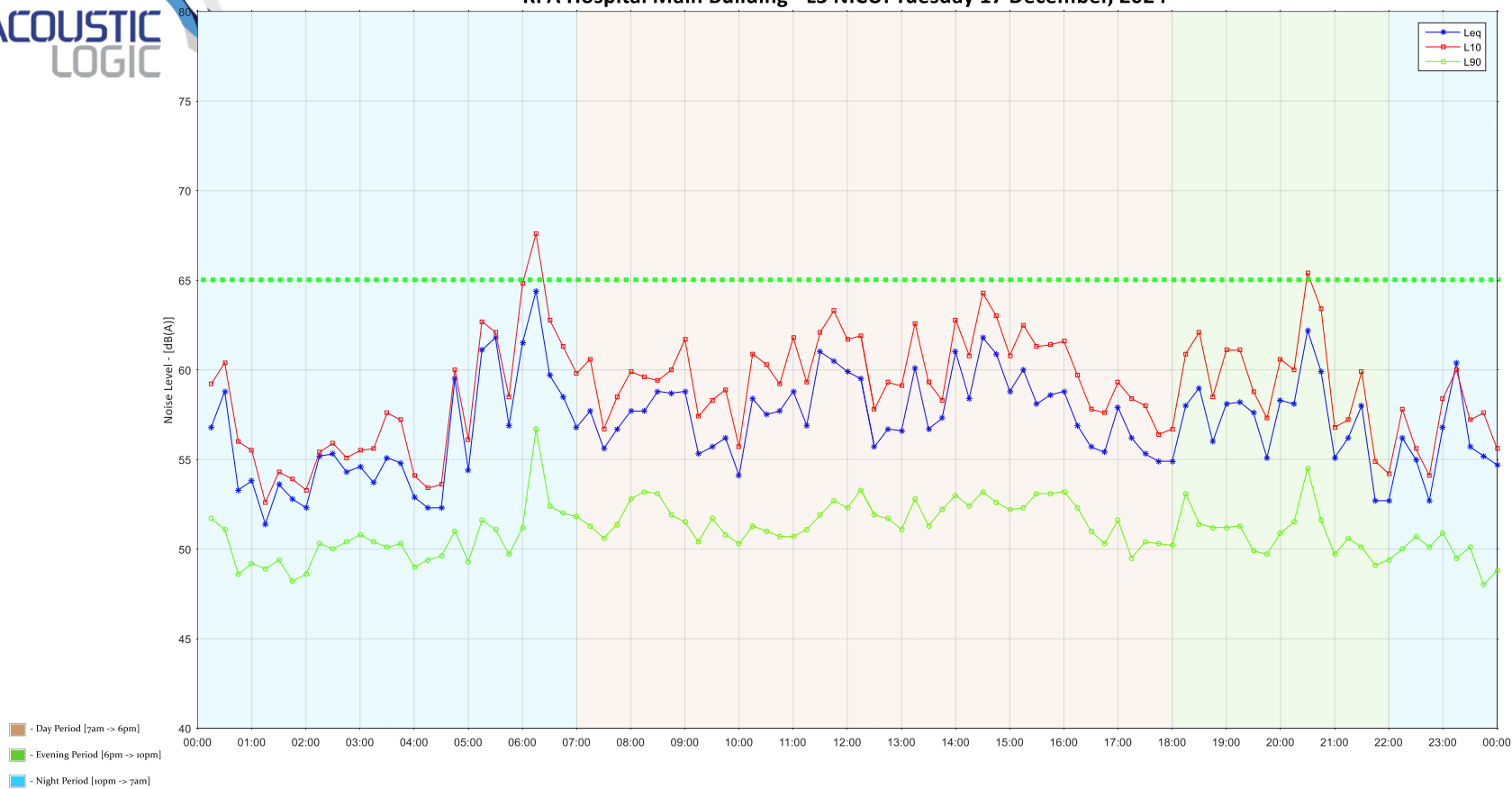
# RPA Hospital Main Building - L3 NICU: Monday 16 December, 2024



**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$



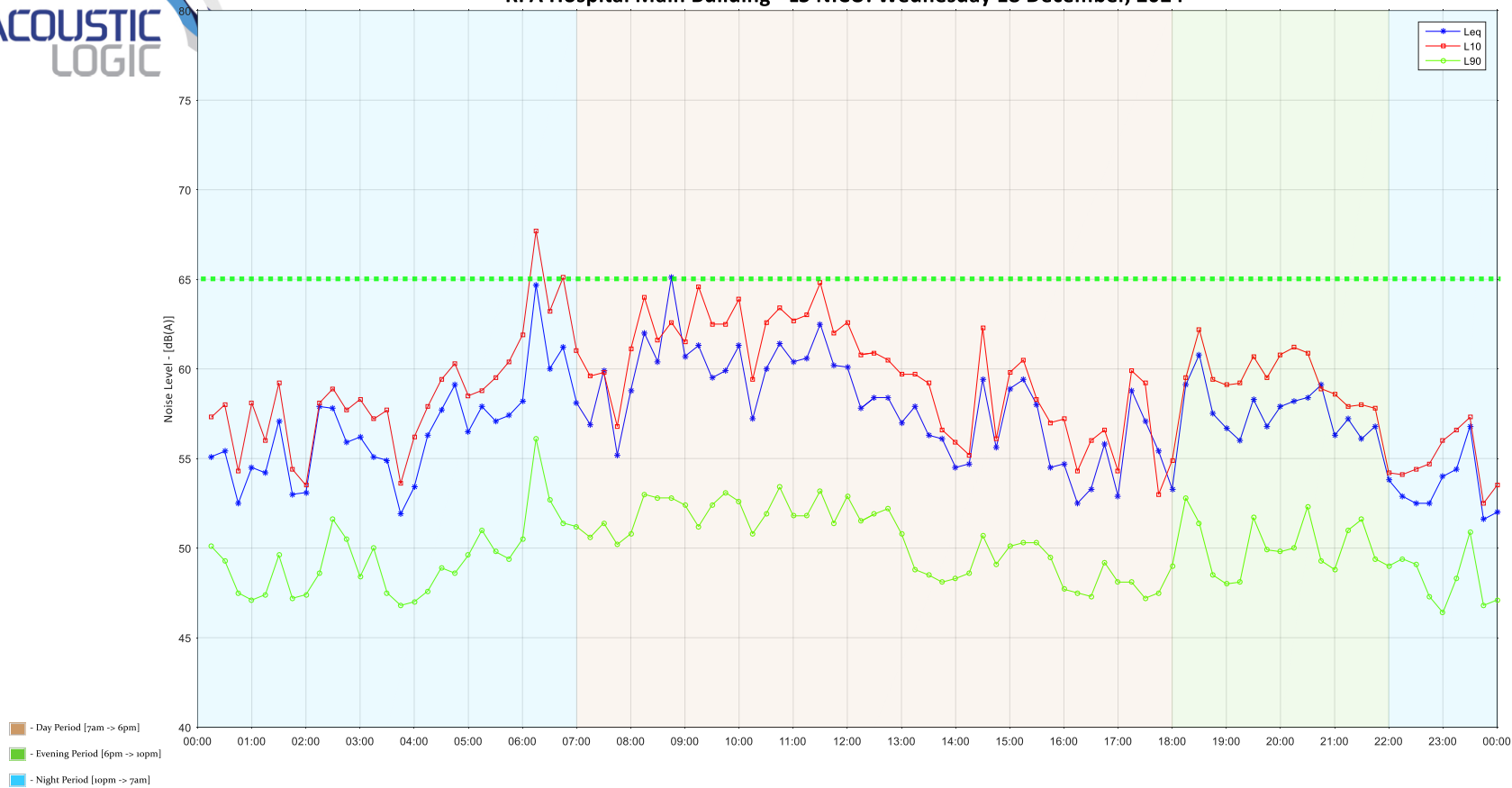
# RPA Hospital Main Building - L3 NICU: Tuesday 17 December, 2024



NICU NML  
(Including correction)  
 $\leq 65\text{dB(A)}L_{\text{eq}}$

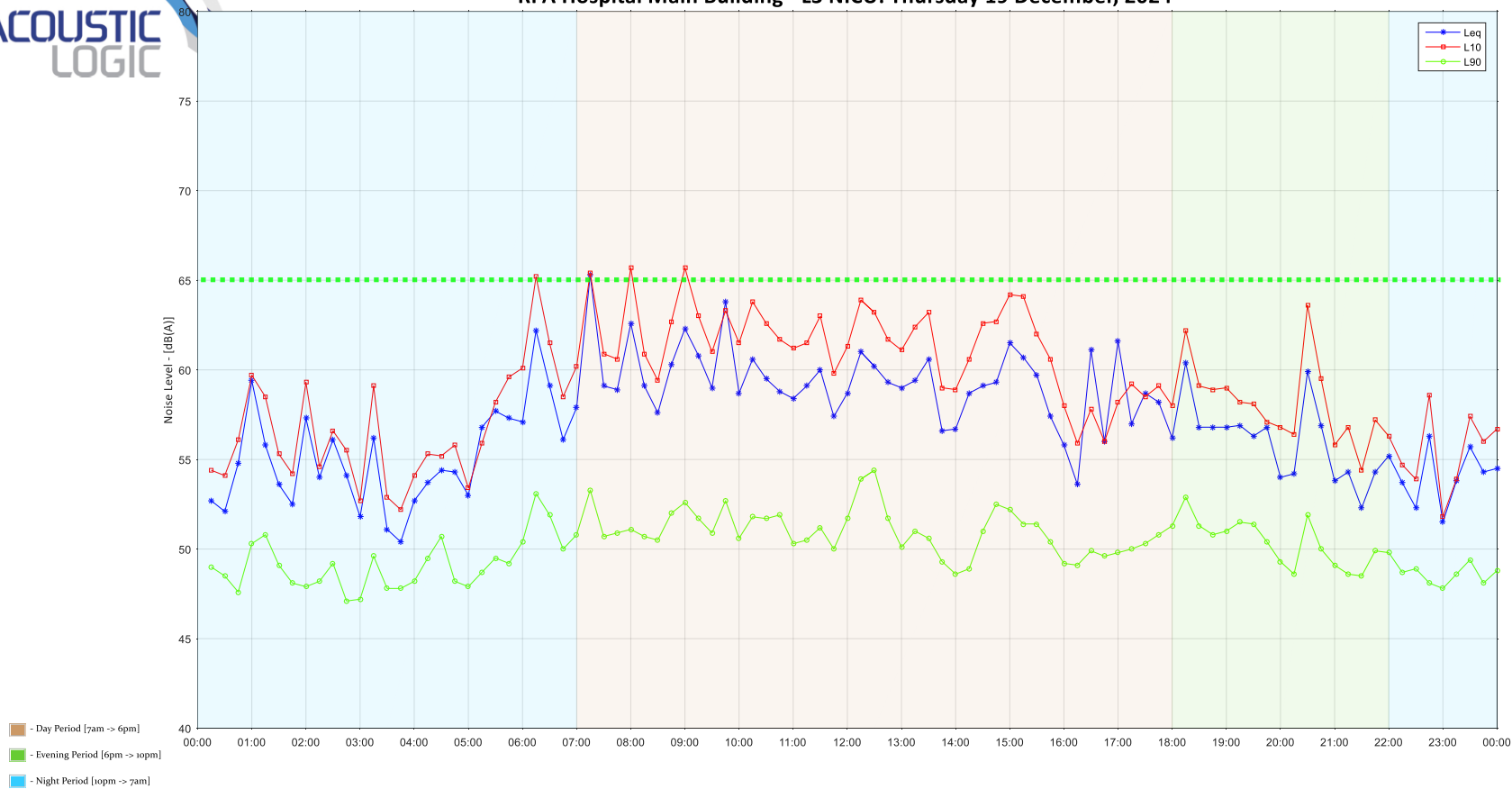


# RPA Hospital Main Building - L3 NICU: Wednesday 18 December, 2024



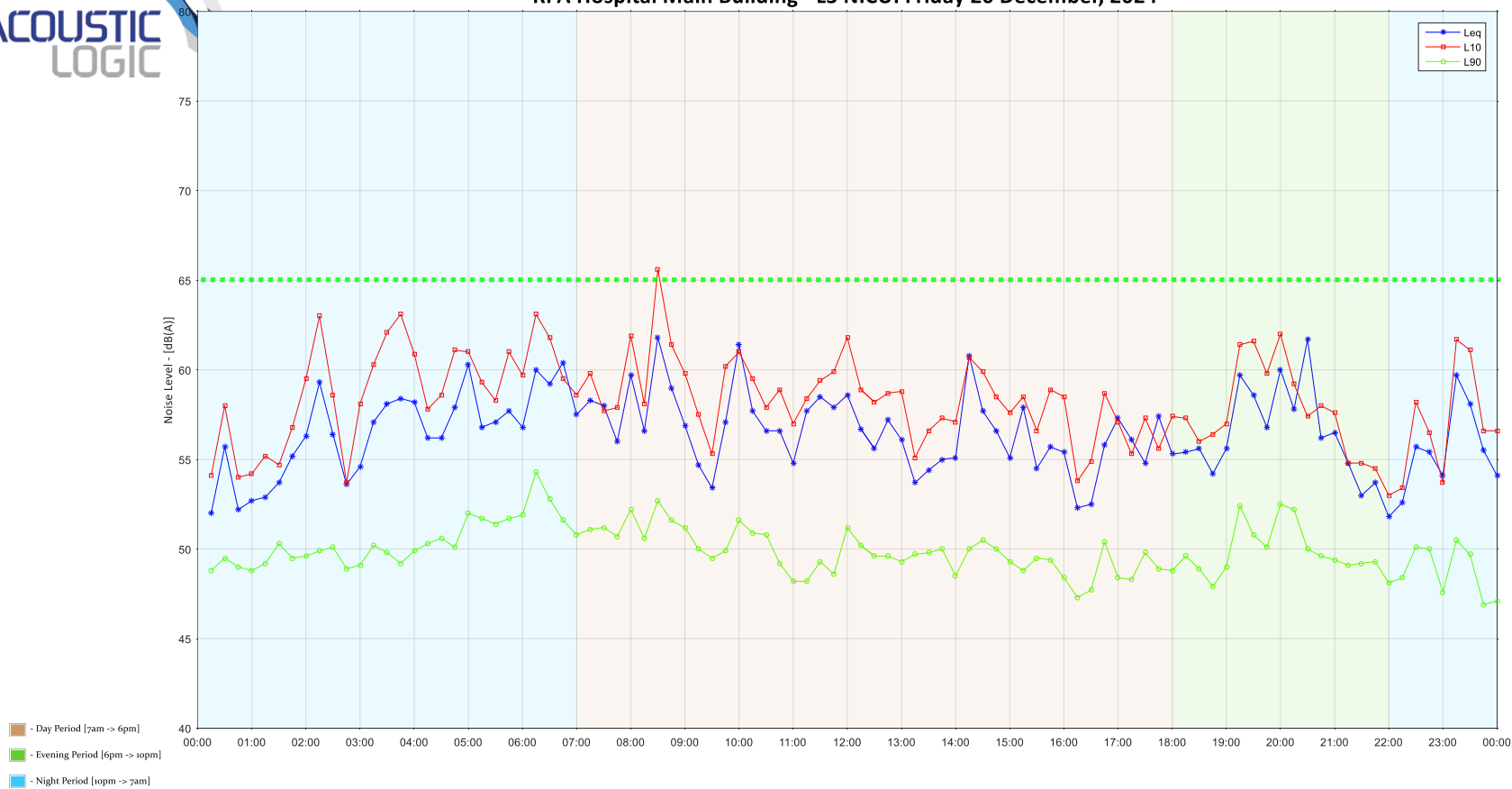
NICU NML  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

# RPA Hospital Main Building - L3 NICU: Thursday 19 December, 2024



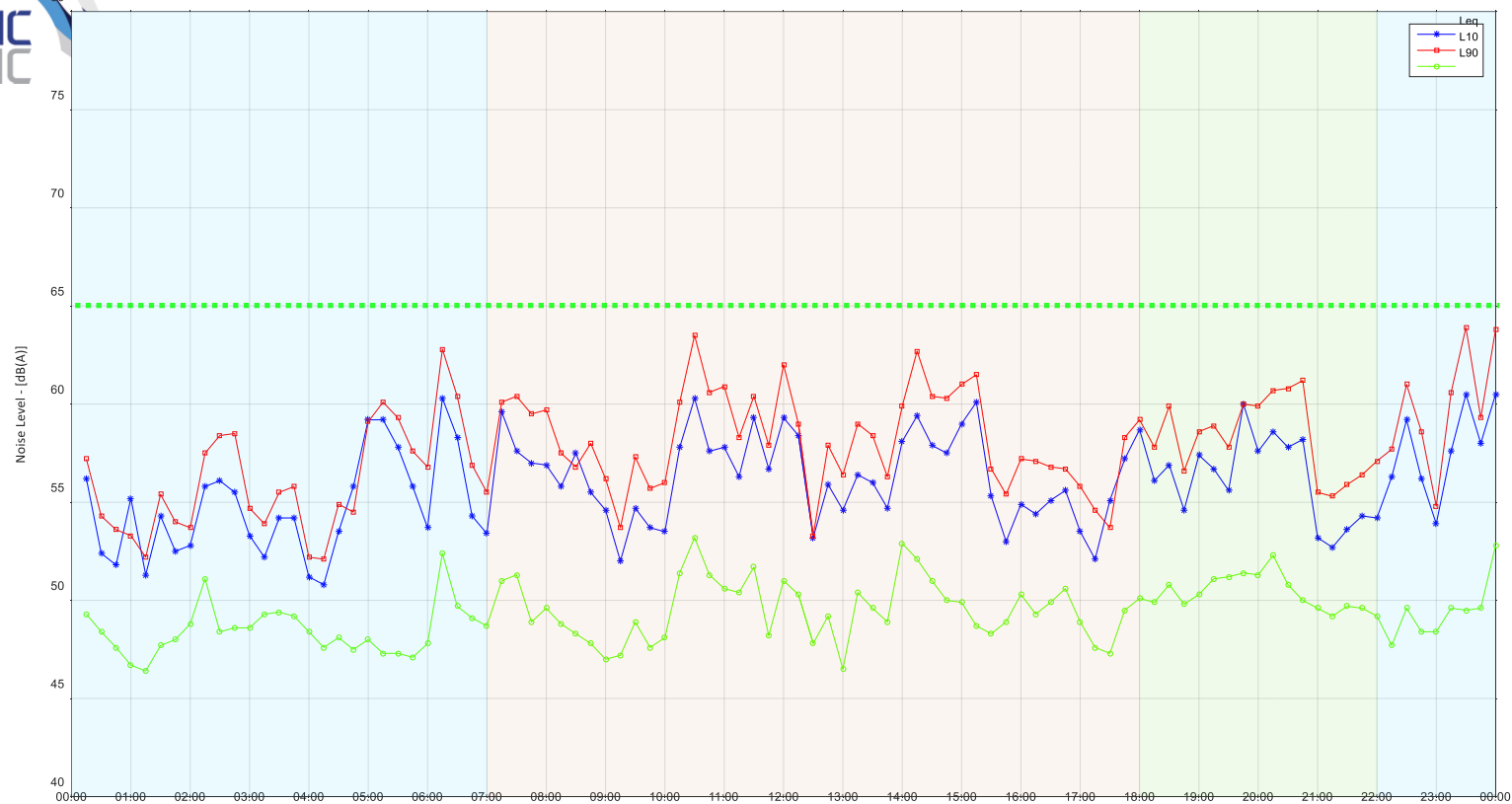
**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

# RPA Hospital Main Building - L3 NICU: Friday 20 December, 2024



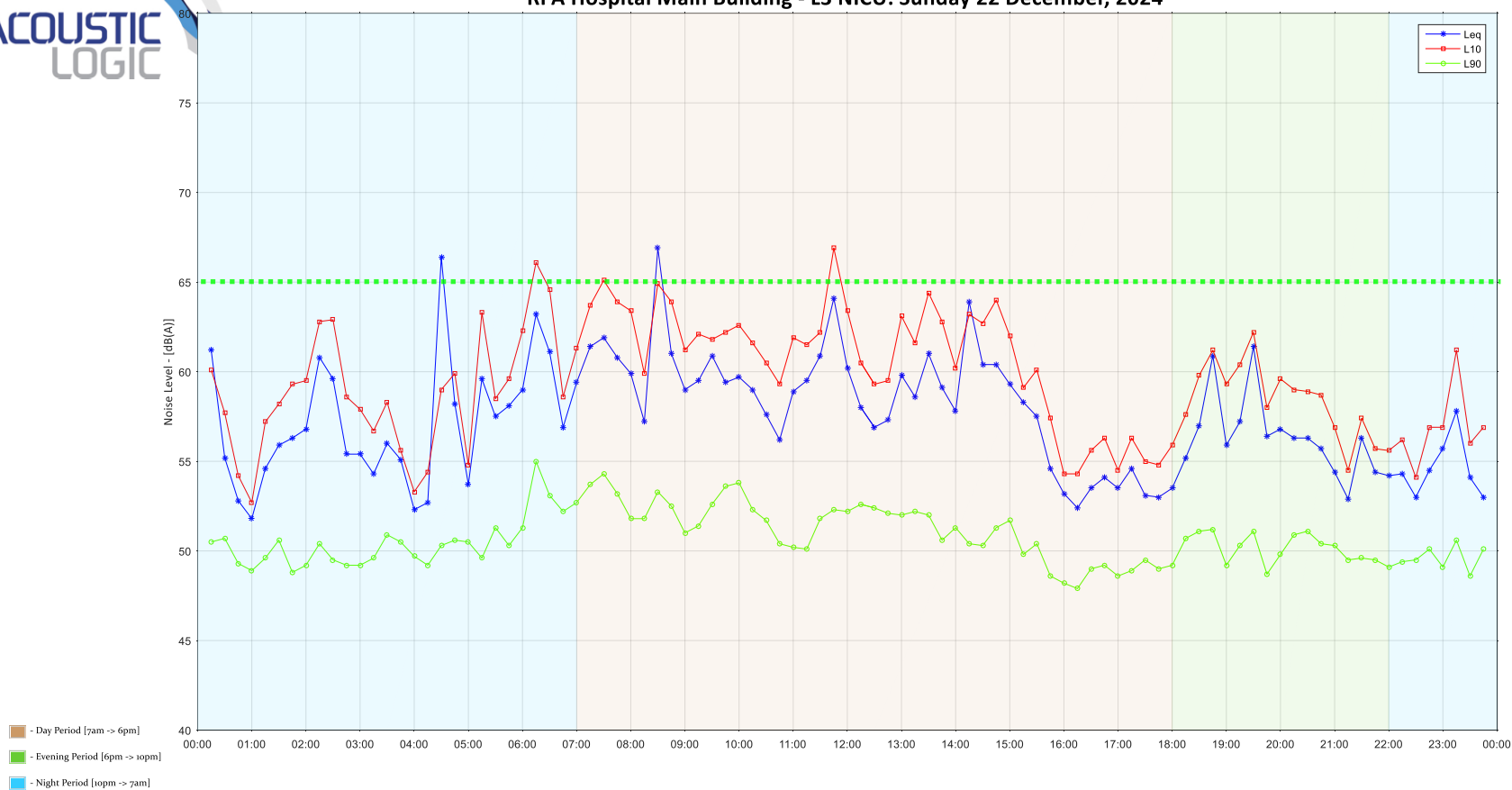
**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

# RPA Hospital Main Building - L3 NICU: Saturday 21 December, 2024



**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

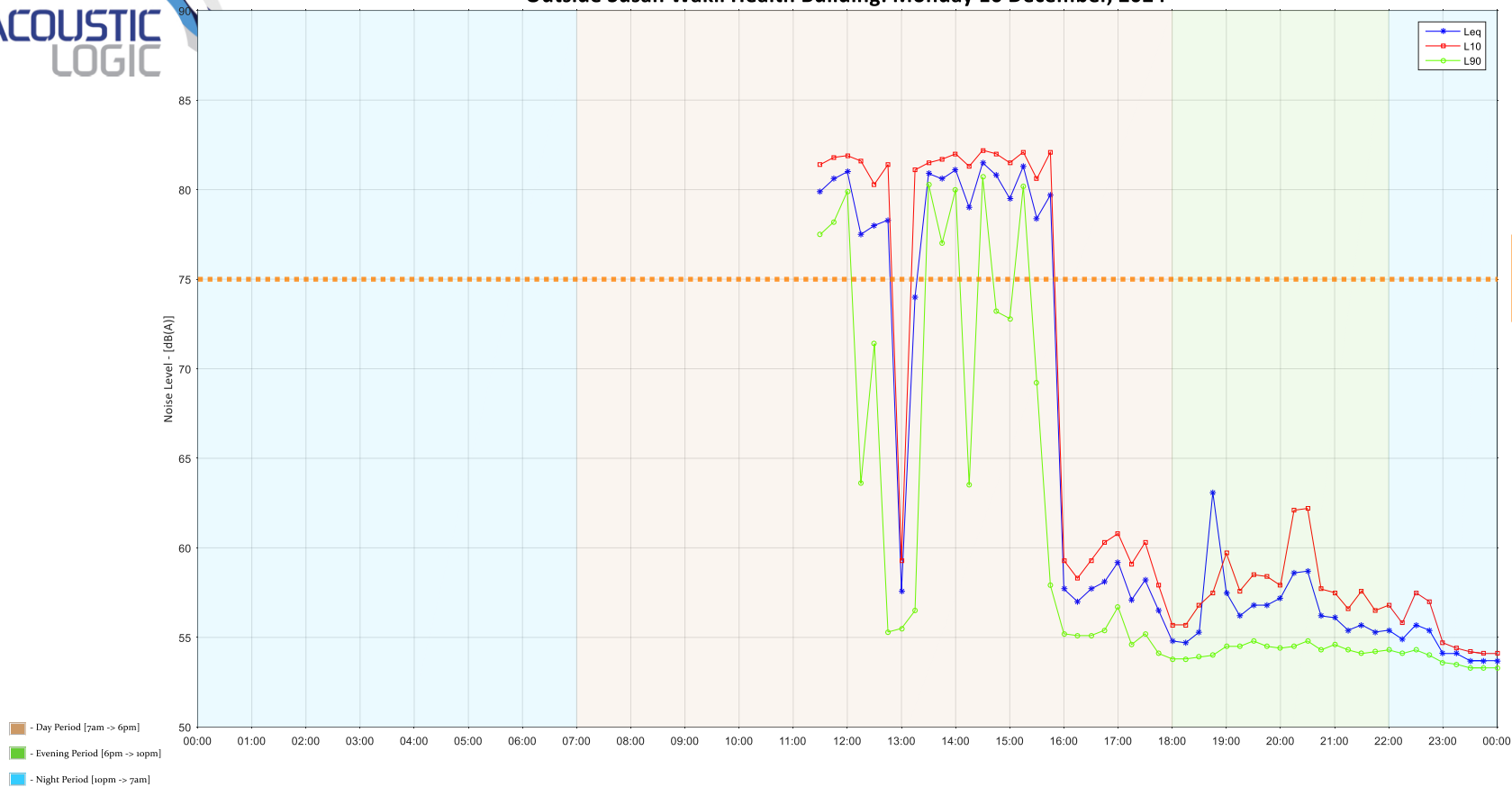
# RPA Hospital Main Building - L3 NICU: Sunday 22 December, 2024



**NICU NML**  
(Including correction)  
 $\leq 65\text{dB(A)}L_{eq}$

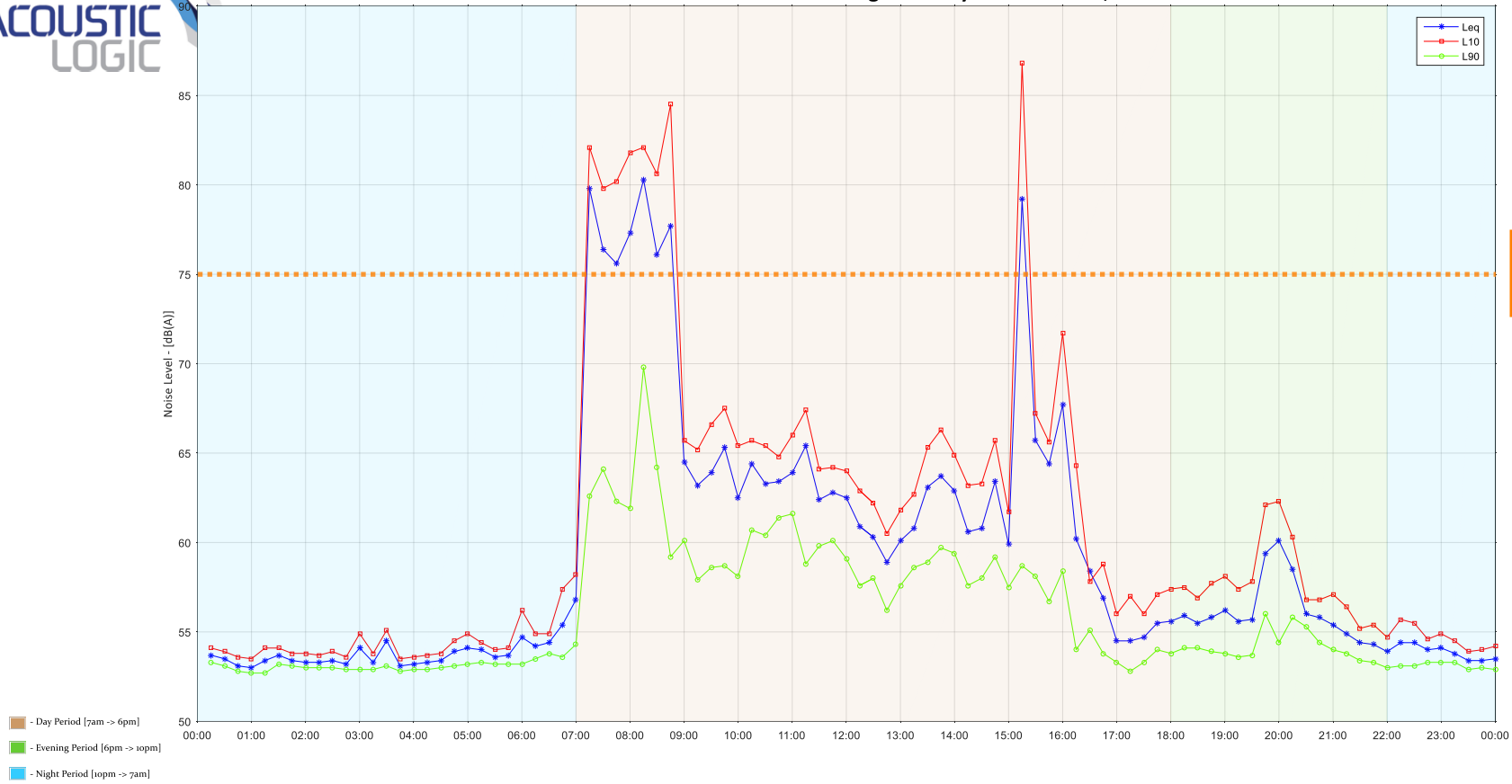
## **OUTSIDE SUSAN WAKIL HEALTH BUILDING**

# Outside Susan Wakil Health Building: Monday 16 December, 2024



**Education NML**  
(Including correction)  
 $\leq 75\text{dB(A)}L_{eq}$

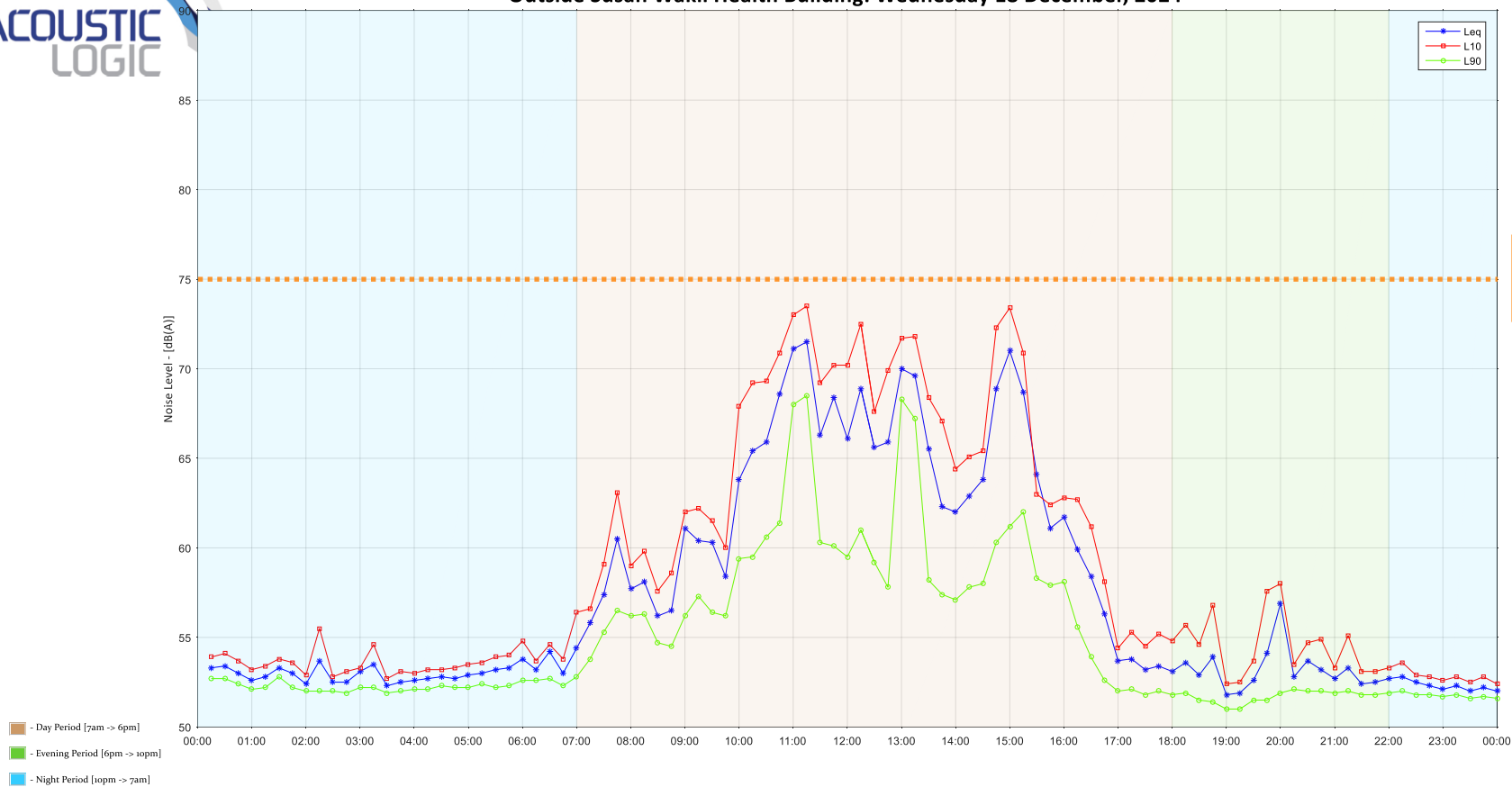
# Outside Susan Wakil Health Building: Tuesday 17 December, 2024



Education NML  
(Including correction)  
 $\leq 75\text{dB(A)}_{L_{eq}}$



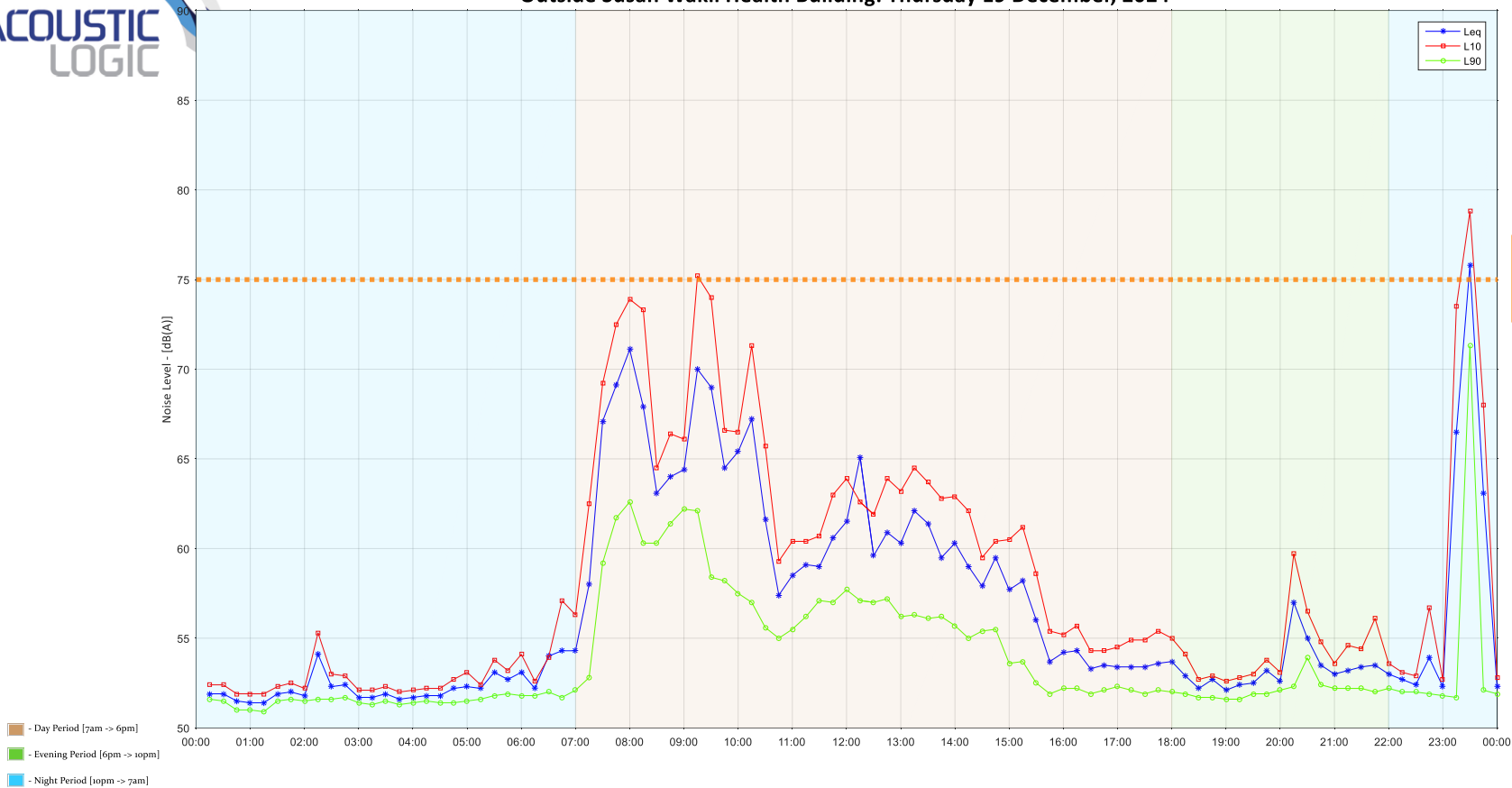
# Outside Susan Wakil Health Building: Wednesday 18 December, 2024



Education NML  
(Including correction)  
 $\leq 75\text{dB(A)}L_{eq}$



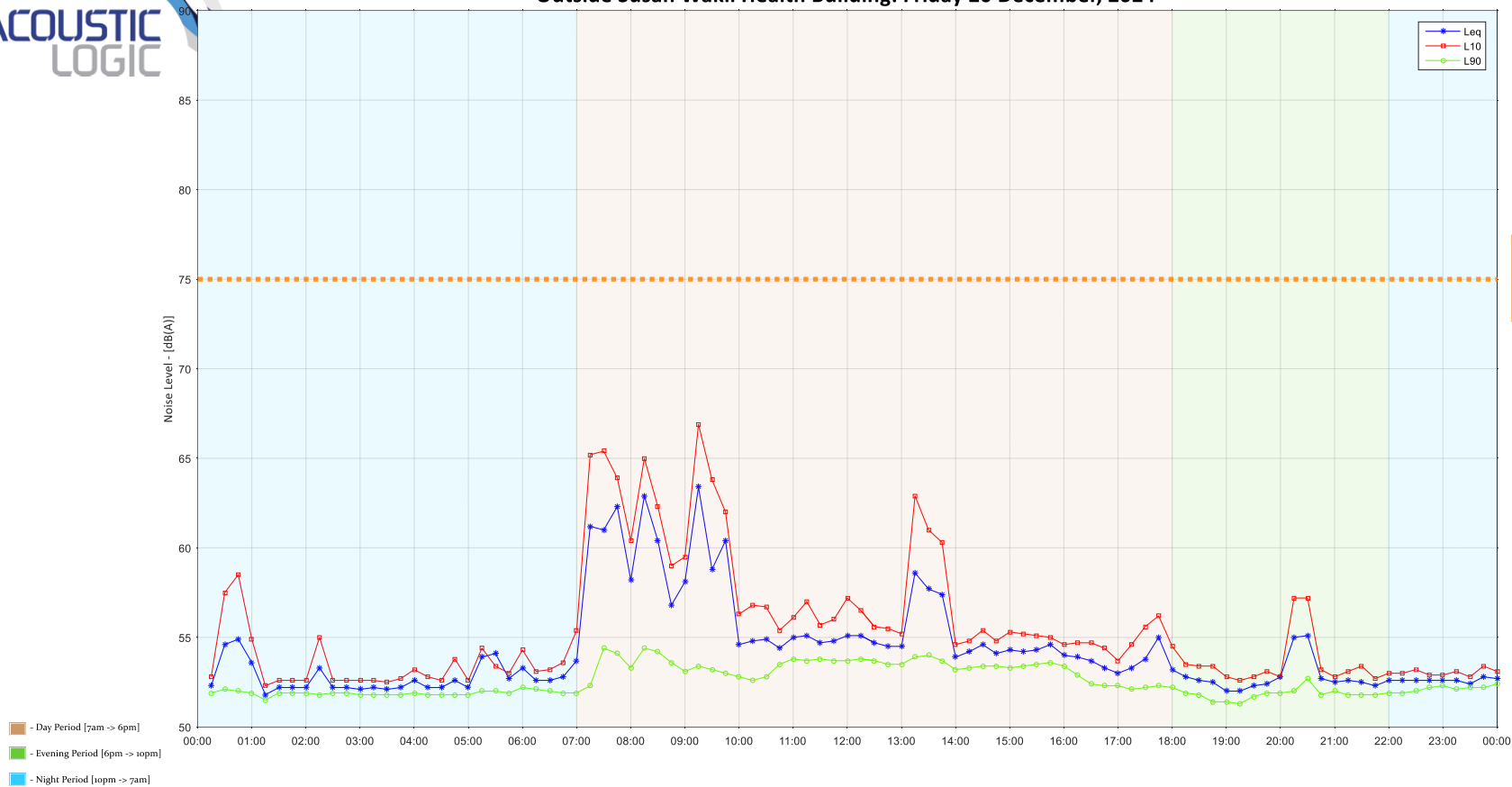
# Outside Susan Wakil Health Building: Thursday 19 December, 2024



Education NML  
(Including correction)  
 $\leq 75\text{dB(A)}L_{eq}$



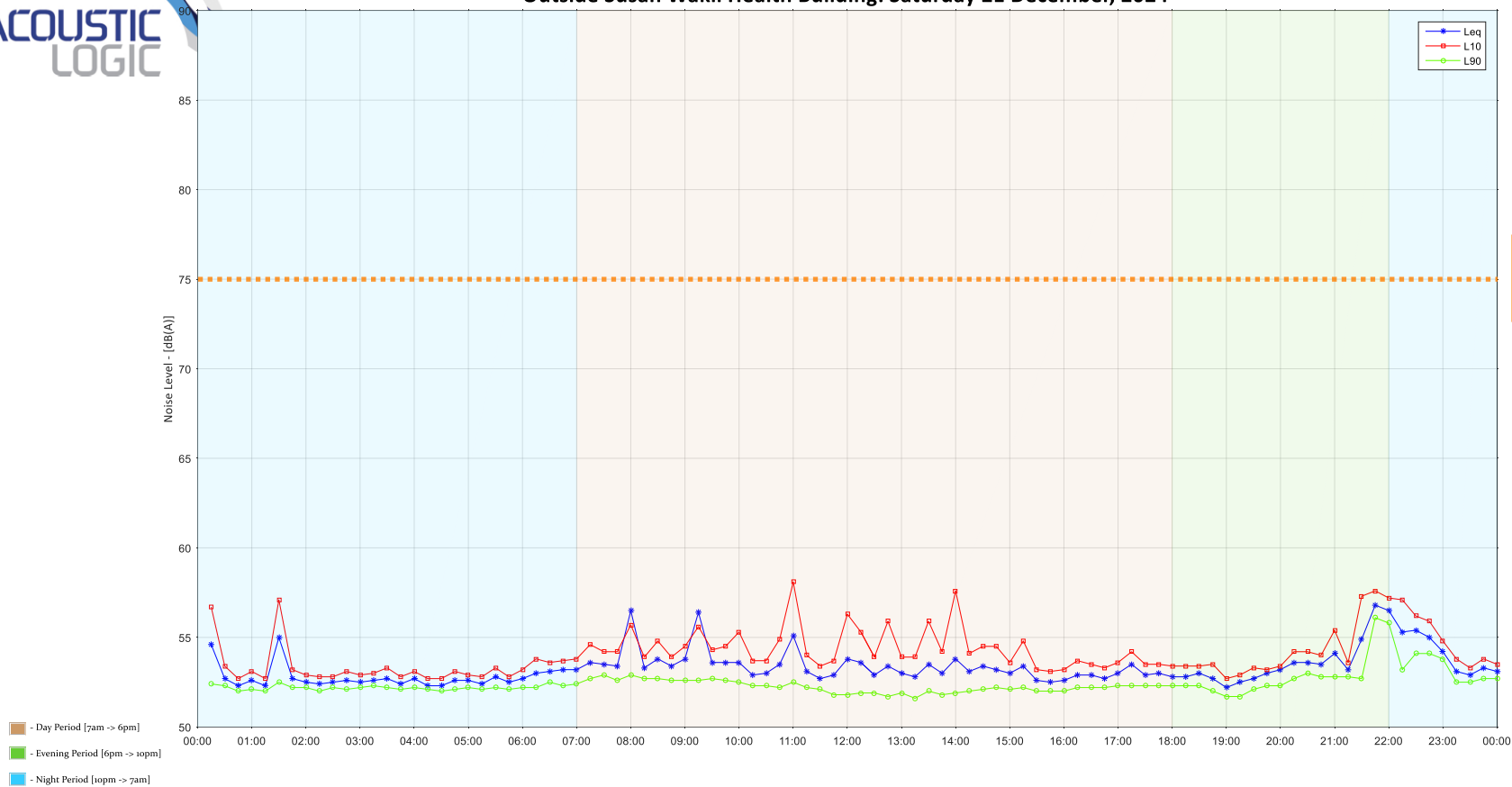
# Outside Susan Wakil Health Building: Friday 20 December, 2024



Education NML  
(Including correction)  
 $\leq 75\text{dB(A)}L_{eq}$



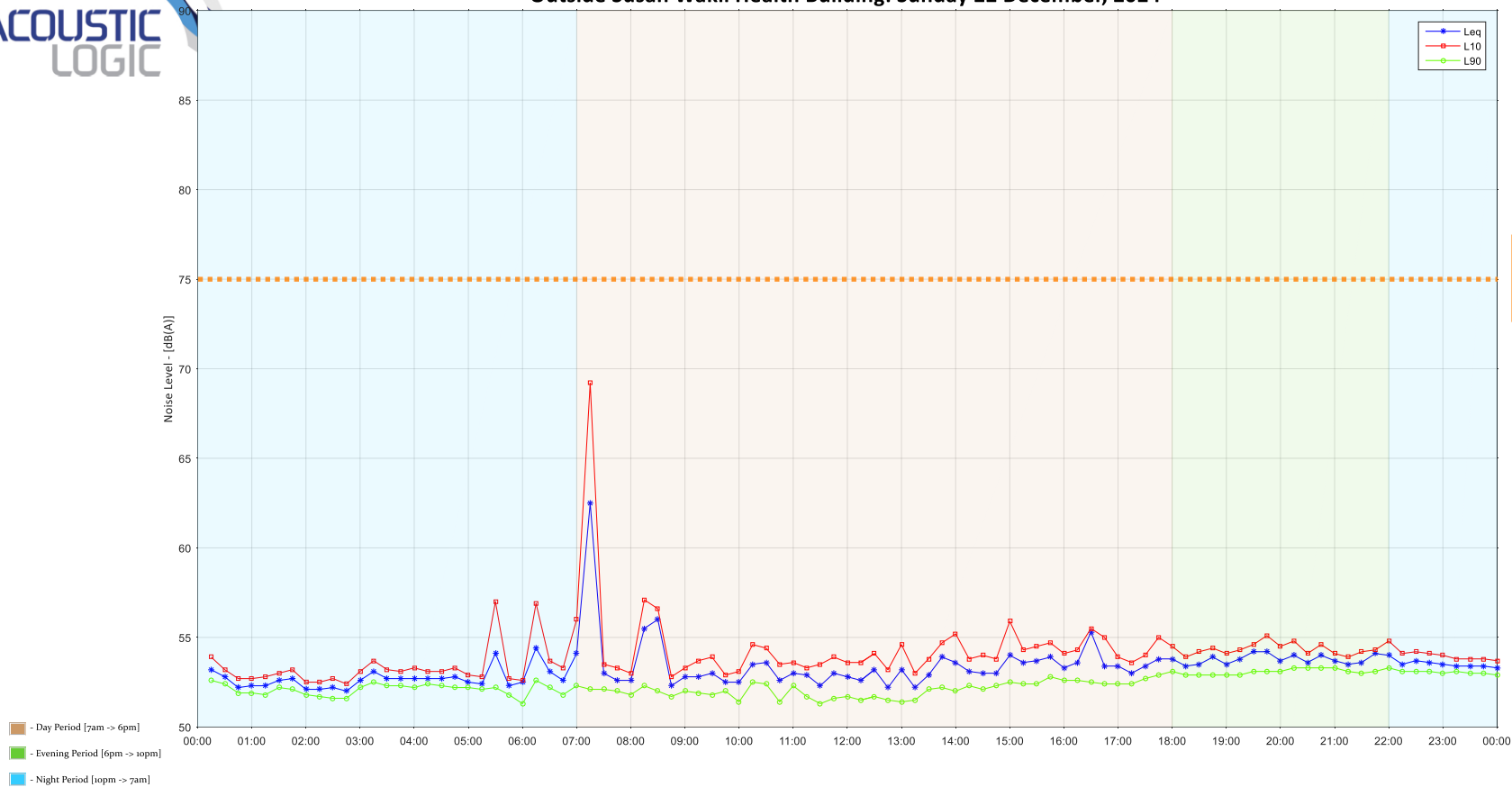
# Outside Susan Wakil Health Building: Saturday 21 December, 2024



Education NML  
(Including correction)  
 $\leq 75\text{dB(A)}L_{eq}$



# Outside Susan Wakil Health Building: Sunday 22 December, 2024



Education NML  
(Including correction)  
 $\leq 75\text{dB(A)}L_{eq}$

## **APPENDIX B – VIBRATION MONITORING RESULTS**

Note that only dates where exceedances of events were experienced have been provided as per discussion with relevant stakeholders.

### **CENTENARY INSTITUTE – LEVEL 3 FISH TANKS**

No exceedances of criteria were observed throughout the monitoring period.

## **CENTENARY INSTITUTE – LEVEL 4 SURGERY ROOM (SOUTHERN FAÇADE)**

No exceedances of criteria were observed throughout the monitoring period.

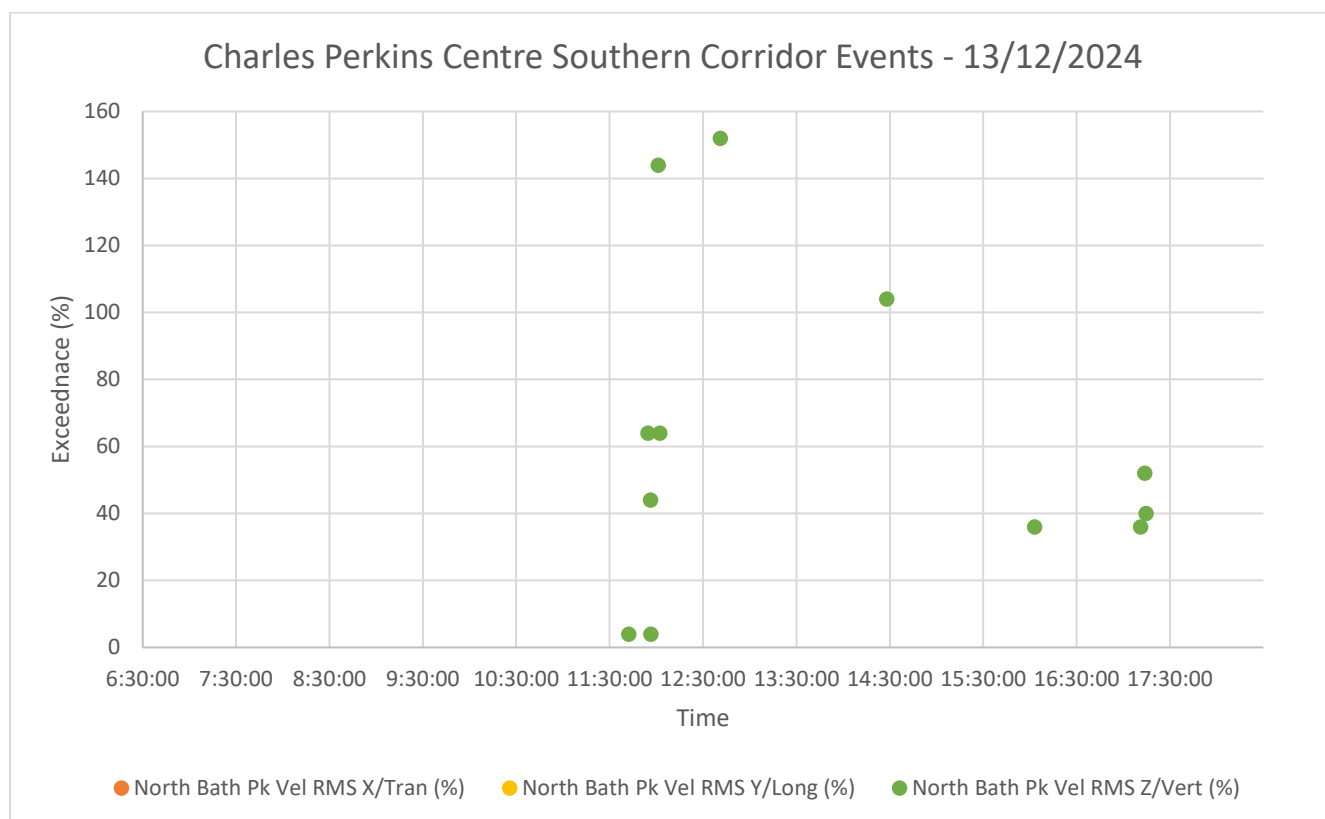
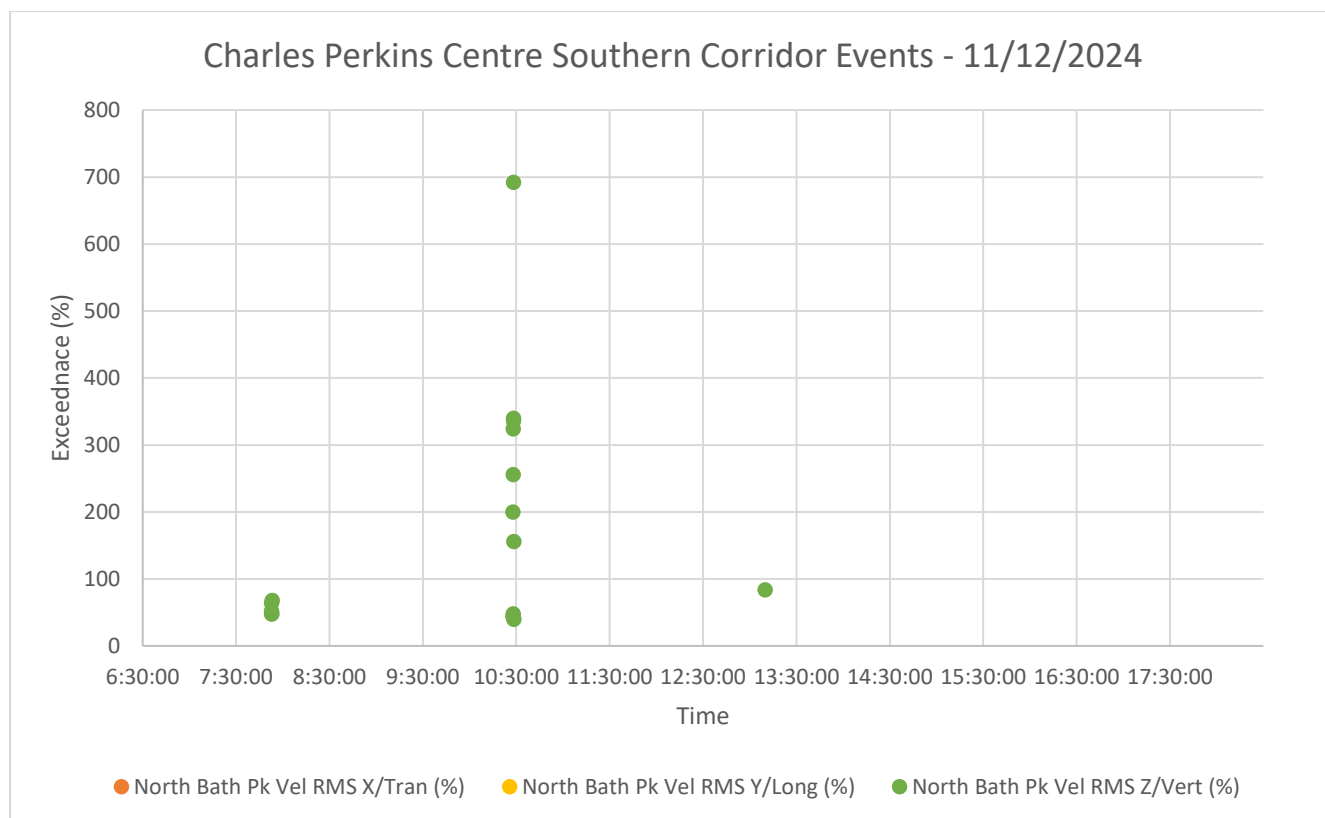
## **CENTENARY INSTITUTE – LEVEL 4 BATHROOM (NORTHERN FAÇADE)**

No exceedances of criteria were observed throughout the monitoring period.

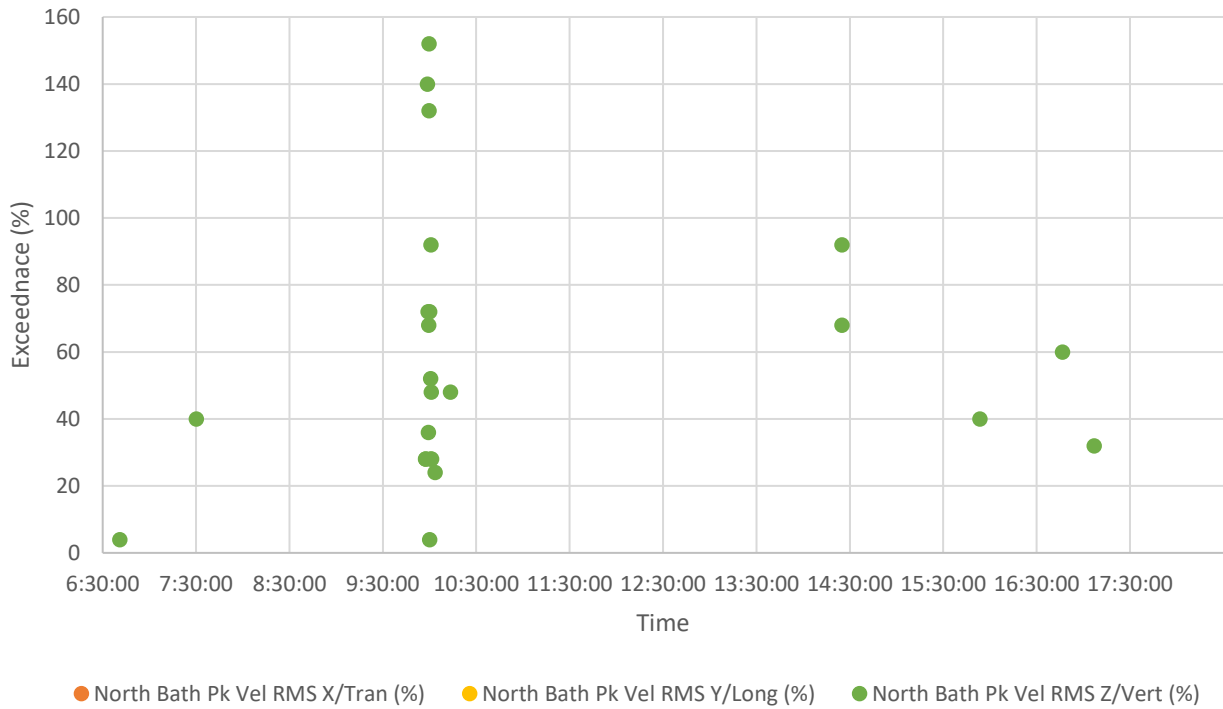
## **CENTENARY INSTITUTE – LEVEL 4 NORTHERN EXPERIMENTATION ROOM**

No exceedances of criteria were observed throughout the monitoring period.

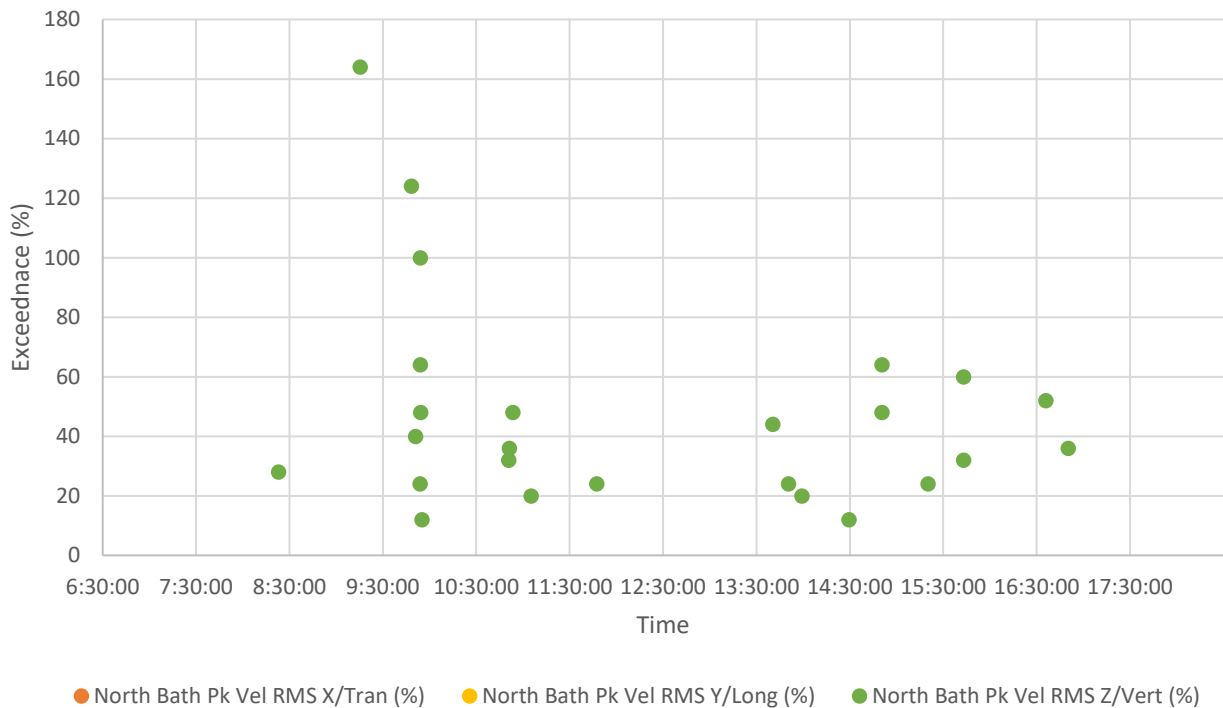
## CHARLES PERKINS CENTRE – LEVEL B1 SOUTHERN CORRIDOR



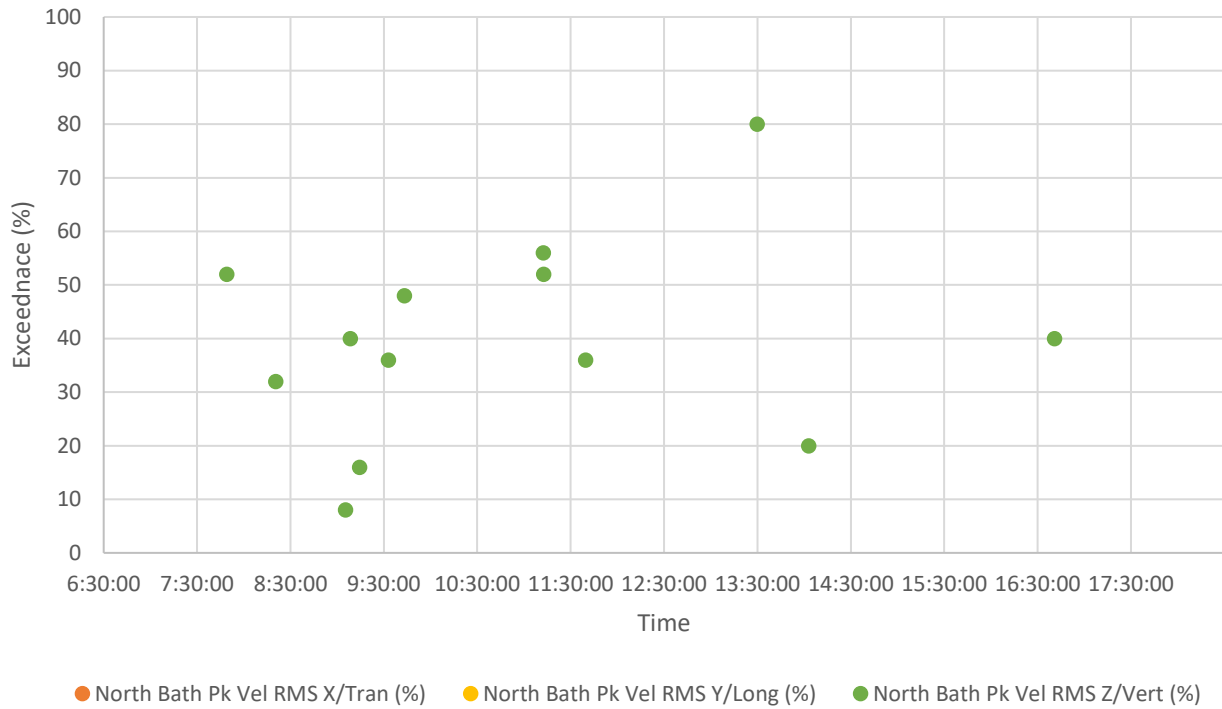
### Charles Perkins Centre Southern Corridor Events - 16/12/2024



### Charles Perkins Centre Southern Corridor Events - 17/12/2024



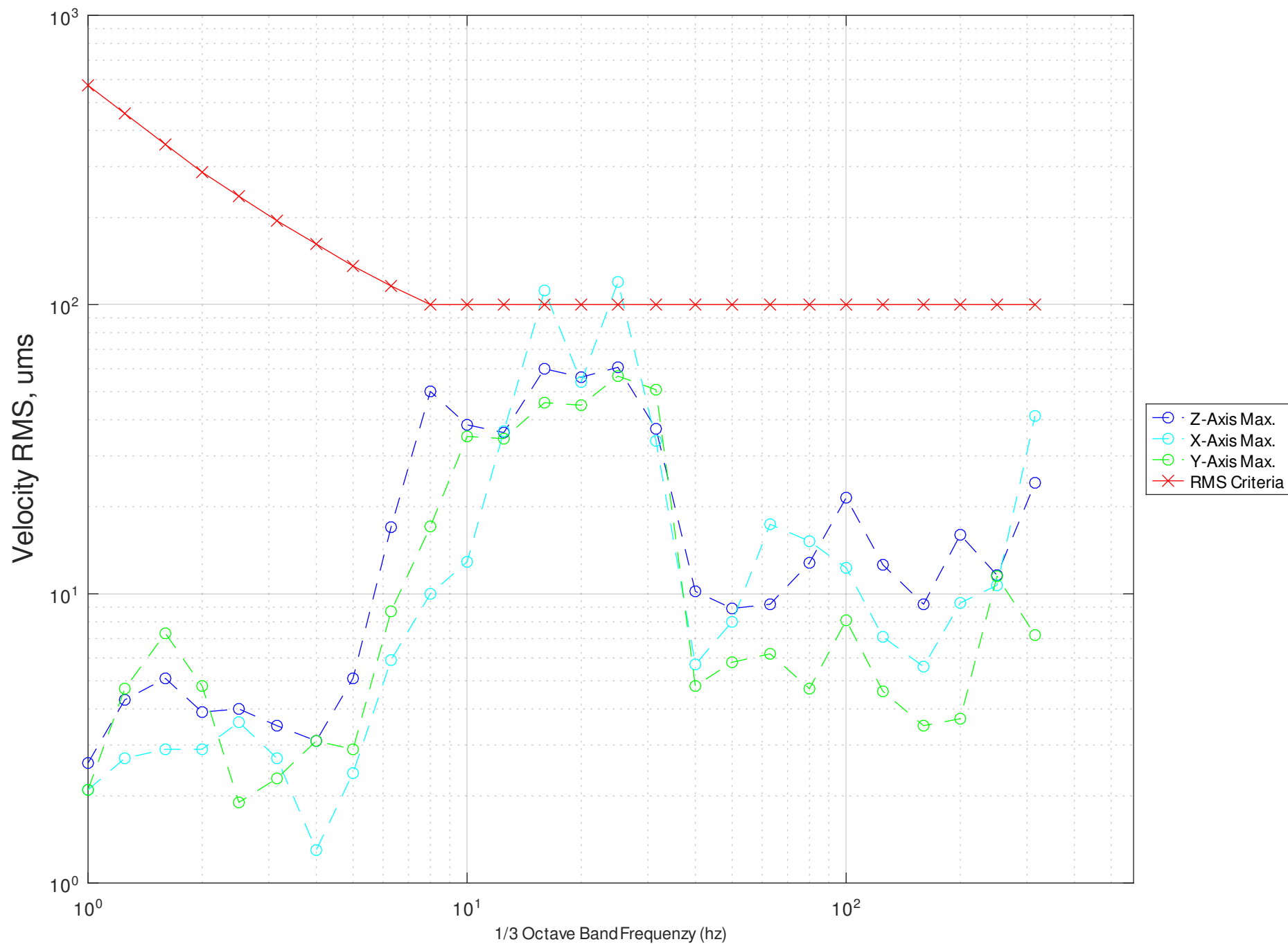
## Charles Perkins Centre Southern Corridor Events - 18/12/2024

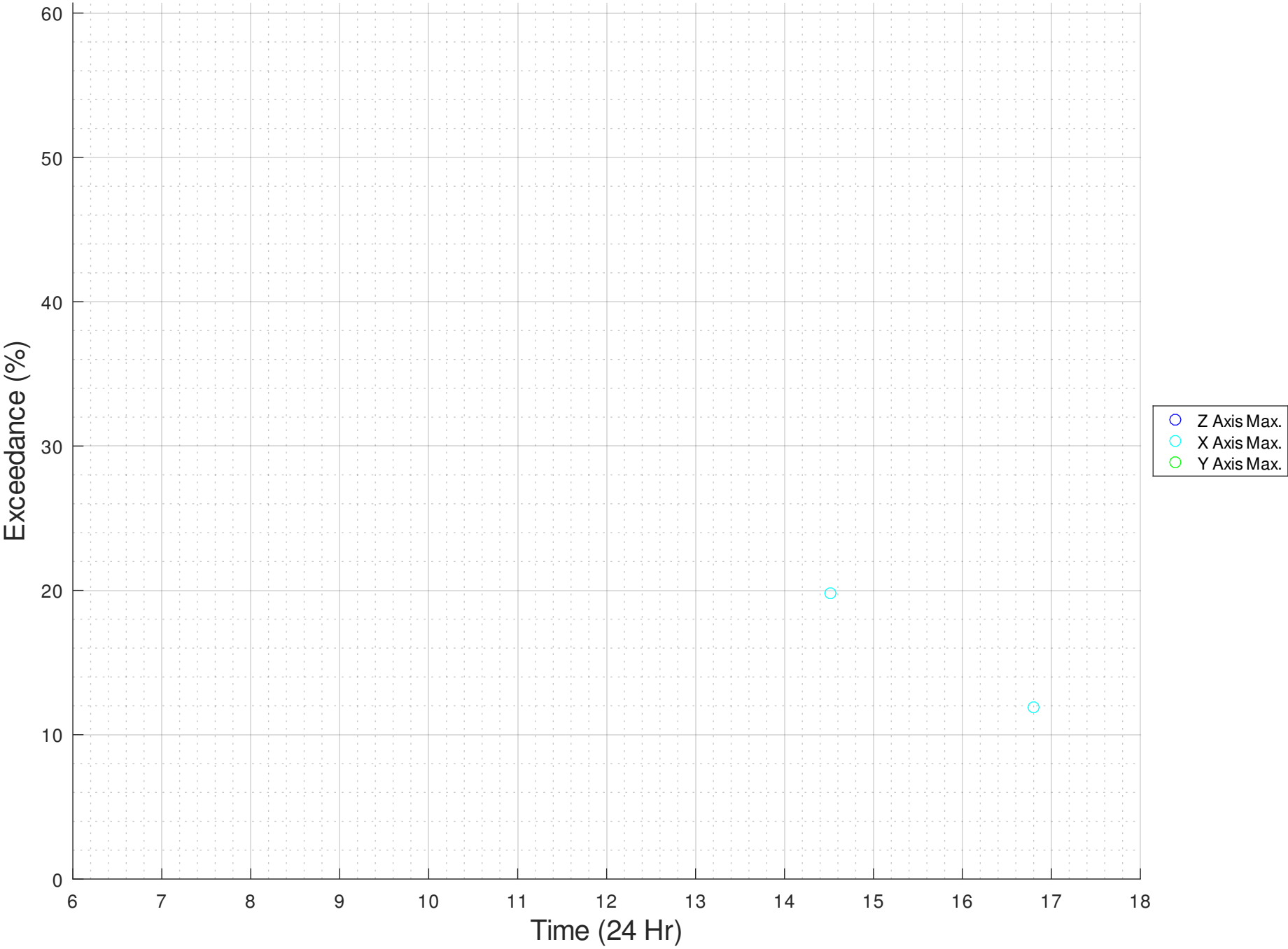


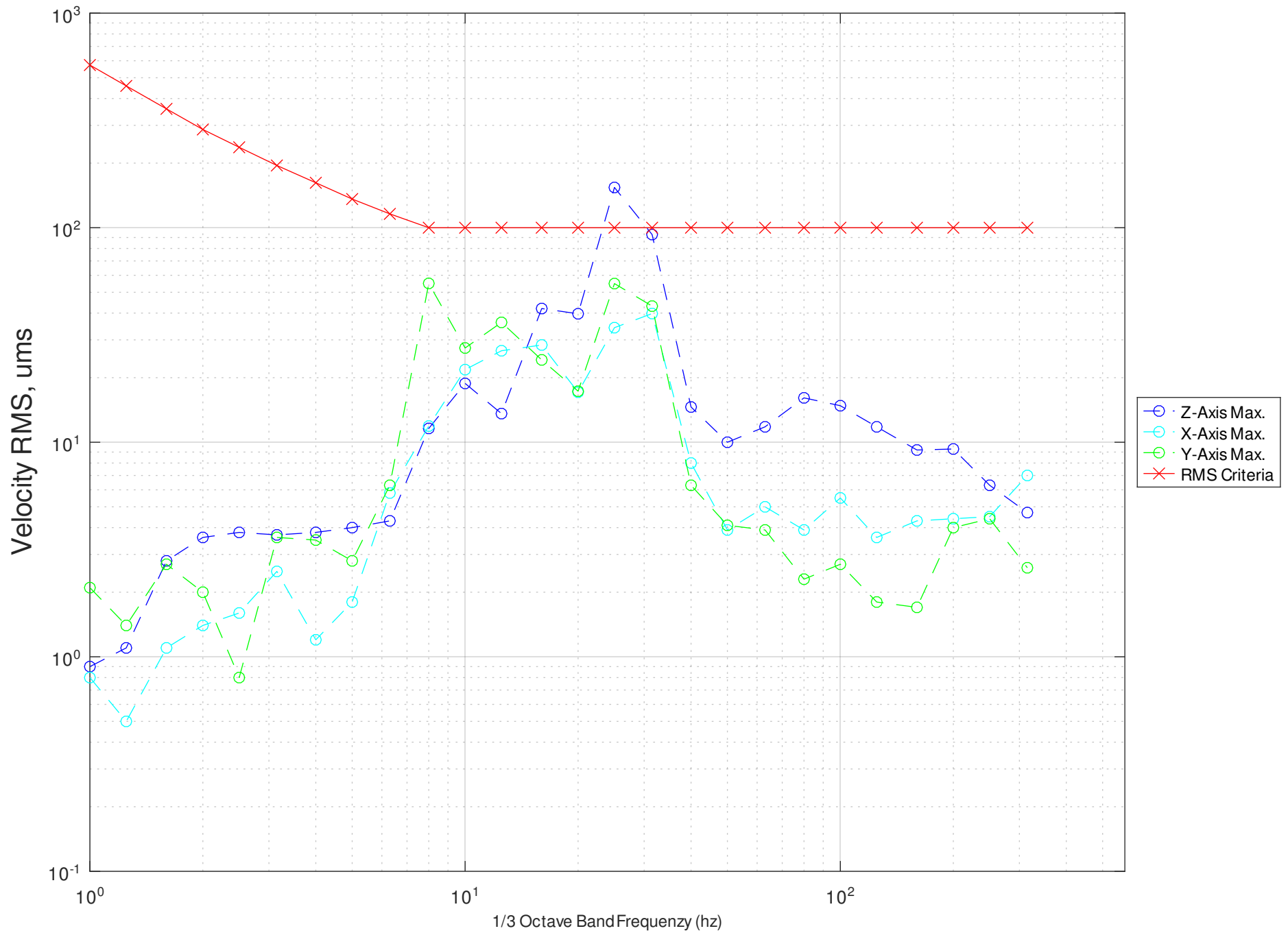
## **CHARLES PERKINS CENTRE – LEVEL B1 SOUTHERN WING OBSERVATION ROOM CORRIDOR**

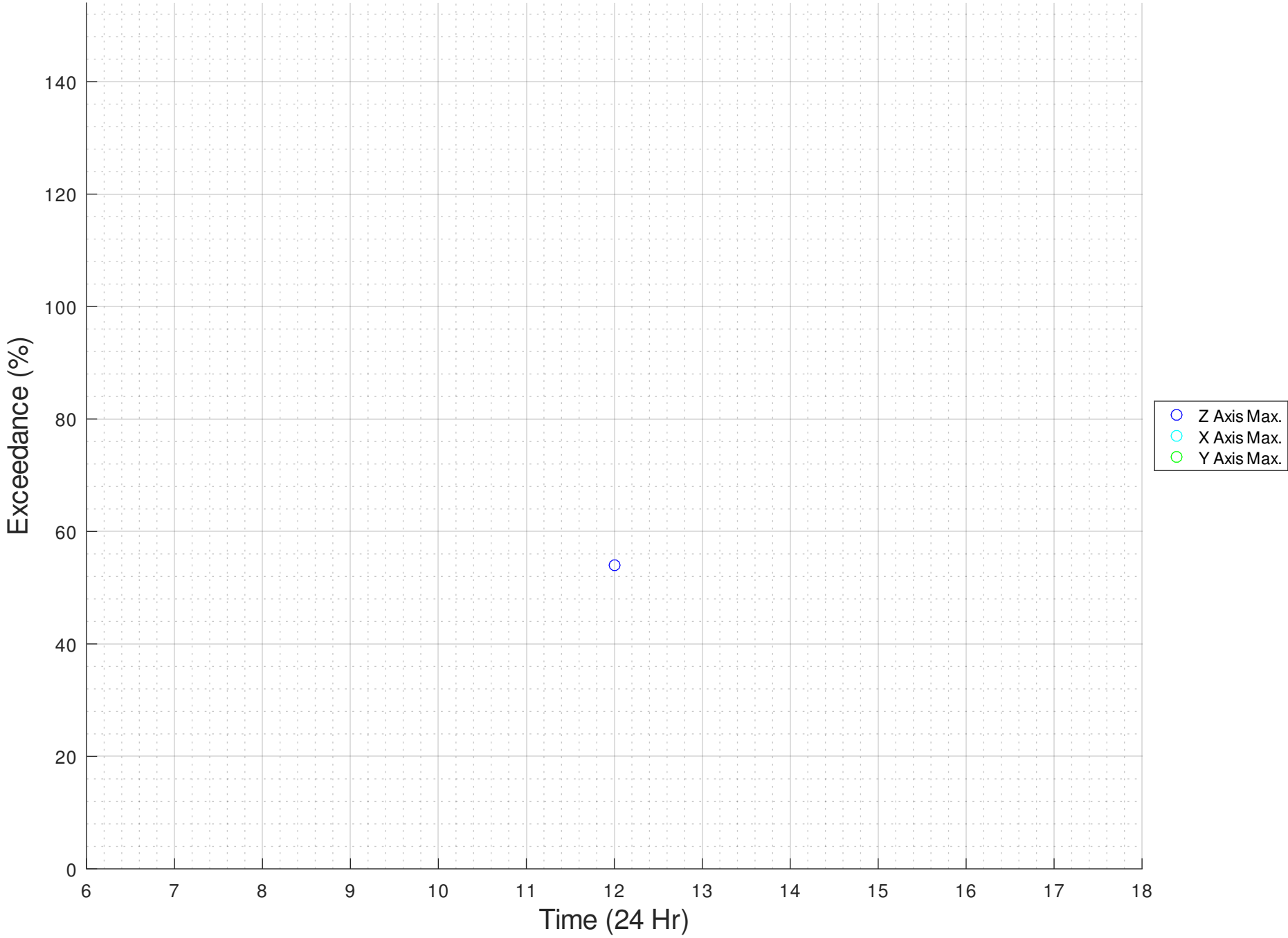
No exceedances of criteria were observed throughout the monitoring period.

## RPA HOSPITAL MAIN BUILDING – LEVEL 03 NICU









## **OUTSIDE SUSAN WAKIL HEALTH BUILDING**

No exceedances of criteria were observed throughout the monitoring period.