

# ACOUSTIC TECHNICAL NOTE



Reference:	12362.ATN02.PNA.0
Revision:	0
To:	Simon Todd
From:	Matt Wildman
Date:	21 February 2024
Project:	Utopia Village
Subject:	Background Noise Measurements

## 1.0 EXECUTIVE SUMMARY

It is proposed to locate new items of plant in two new plant areas at Utopia Village, NW1, both located next to amenity spaces belonging to nearby noise sensitive residential properties.

As part of a noise impact assessment carried out by Noico to assess the likely noise impact of the proposals to nearby noise sensitive receptors, an environmental noise survey was carried out in January 2023 in order to establish the 'typical' and 'minimum' background noise levels in the area, which would subsequently inform the assessment criteria.

RBA Acoustics has been appointed to carry out a similar environmental noise survey in order to re-establish the background noise climate within the rear gardens of 8 Chalcot Road and 1 Egbert Street, which are considered to be amongst the nearest noise sensitive receptors to the proposed plant installations. The results are presented herein.

In summary, both the typical and minimum background noise levels measured over both daytime and night-time periods as part of our assessment are lower than measured as part of the previous assessment.

## 2.0 ENVIRONMENTAL NOISE SURVEY

### 2.1 General

Monitoring of the prevailing background noise was undertaken over the following period:

16:30 Thursday 15 February to 09:30 Monday 19 February 2024.

As the survey was unattended it is not possible to comment with certainty regarding meteorological conditions throughout the entire survey period. However, based on observations during the site visits and weather reports for the area, conditions were generally considered suitable for obtaining representative noise measurements. Although it was seen that periods of rain did occur over the measurement period, it is not thought to have adversely affected the overall average of data collected, and thus the results are considered to be representative of the normal noise climate.

Measurements were made of the  $L_{A90}$ ,  $L_{Amax}$  and  $L_{Aeq}$  noise levels over sample periods of 15 minutes.

## 2.2 Measurement Locations

Measurements were undertaken at the following locations:

### MP1 – 8 Chalcot Road

Measurements were taken with the microphone positioned on a tripod within the centre of the rear garden of 8 Chalcot Road. The microphone was elevated approximately 1.5m above ground level and measurements were taken in free field conditions. The prevailing noise climate consisted of distant road traffic and occasional birdsong.

### MP2 – 1 Egbert Street

Measurements were taken with the microphone positioned on a tripod within the centre of the rear garden of 8 Egbert Street. The microphone was elevated approximately 1.5m above ground level and measurements were taken in free field conditions. The prevailing noise climate consisted of distant road traffic and occasional birdsong.

The measurement position is also illustrated on the site plan attached in Figure 1 and photographs in Figure 2 (Appendix E).

## 2.3 Results

The typical and minimum background  $L_{A90,15min}$  noise levels measured at both measurement positions are shown alongside the previous measured levels in the Noico assessment are shown in Table 1 below.

The noise levels measured are also shown as time-histories on the attached Graphs 1 – 4. The typical background noise level for each time period has been taken as the most commonly occurring  $L_{A90,15min}$  sample as taken from the histograms shown in Graphs 5 – 6.

Table 1 – Measured Baseline Noise Levels, MP1 – 8 Chalcot Road

Measurement Period	RBA Acoustics Measurements		Noico Measurements	
	'Typical' Background Noise Level $L_{A90,15min}$ (dB)	'Minimum' Background Noise Level $L_{A90,15min}$ (dB)	'Typical' Background Noise Level $L_{A90,15min}$ (dB)	'Minimum' Background Noise Level $L_{A90,15min}$ (dB)
MP1 – 8 Chalcot Road				
Daytime (07:00 – 23:00)	37	31	44	33
Night-time (23:00 – 07:00)	28	26	35	30
MP2 – 1 Egbert Street				
Daytime (07:00 – 23:00)	37	30	41	35
Night-time (23:00 – 07:00)	28	26	35	30

It can be seen from Table 1 that the typical background noise level measured at 8 Chalcot Road is 7 dB lower than the typical background noise levels for both daytime and night-time periods that were measured as part of the previous Noico assessment.

At 1 Egbert Street, the typical background noise level measured during the day-time period is 4dB lower than previously measured in the Noico assessment, while the night-time background noise level is 7dB lower.

### 3.0 CONCLUSION

RBA Acoustics has been appointed to carry out a new environmental noise survey at the nearest noise sensitive residences to Utopia Village, NW1.

The results of the assessment show that both the typical and lowest background noise levels measured at the assessment location are lower than previously measured as part of the Noico assessment.

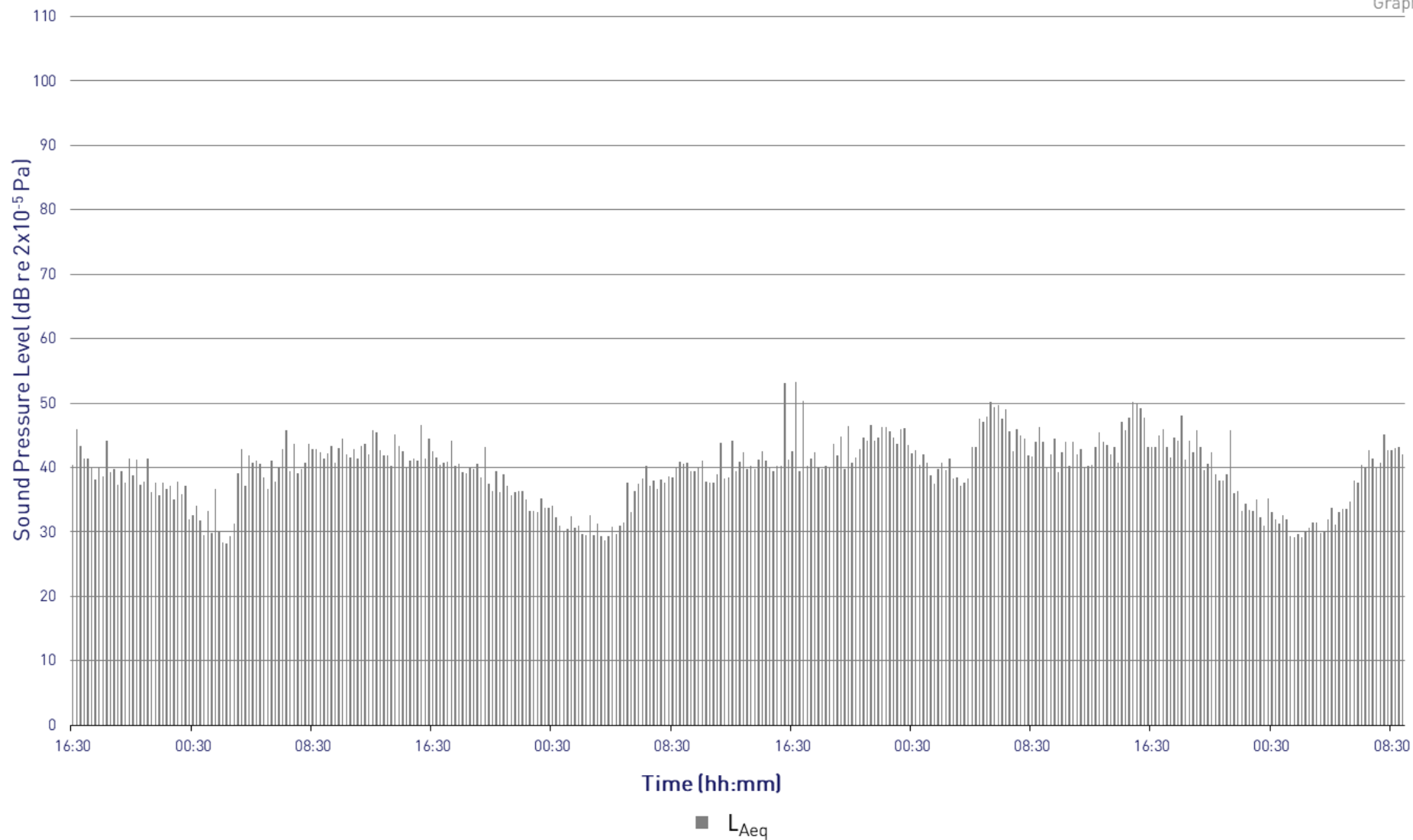
Utopia Village, NW1

$L_{Aeq}$  Time History

Measurement Position 1 - Thursday 15th February to Monday 19th February 2024



Graph 1



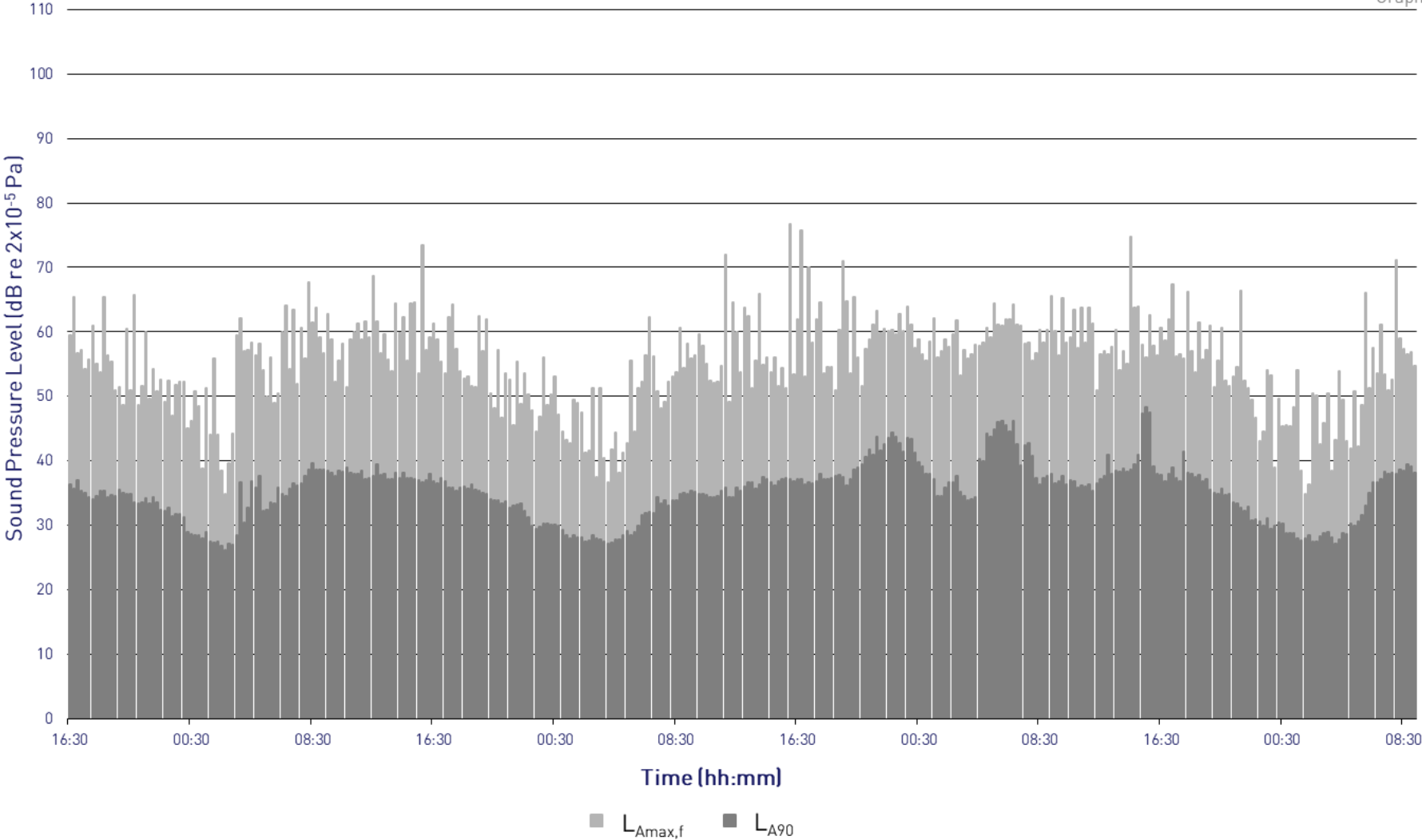


Utopia Village, NW1

$L_{Amax,f}$  and  $L_{A90}$  Time History

Measurement Position 1 - Thursday 15th February to Monday 19th February 2024

Graph 2



Utopia Village, NW1

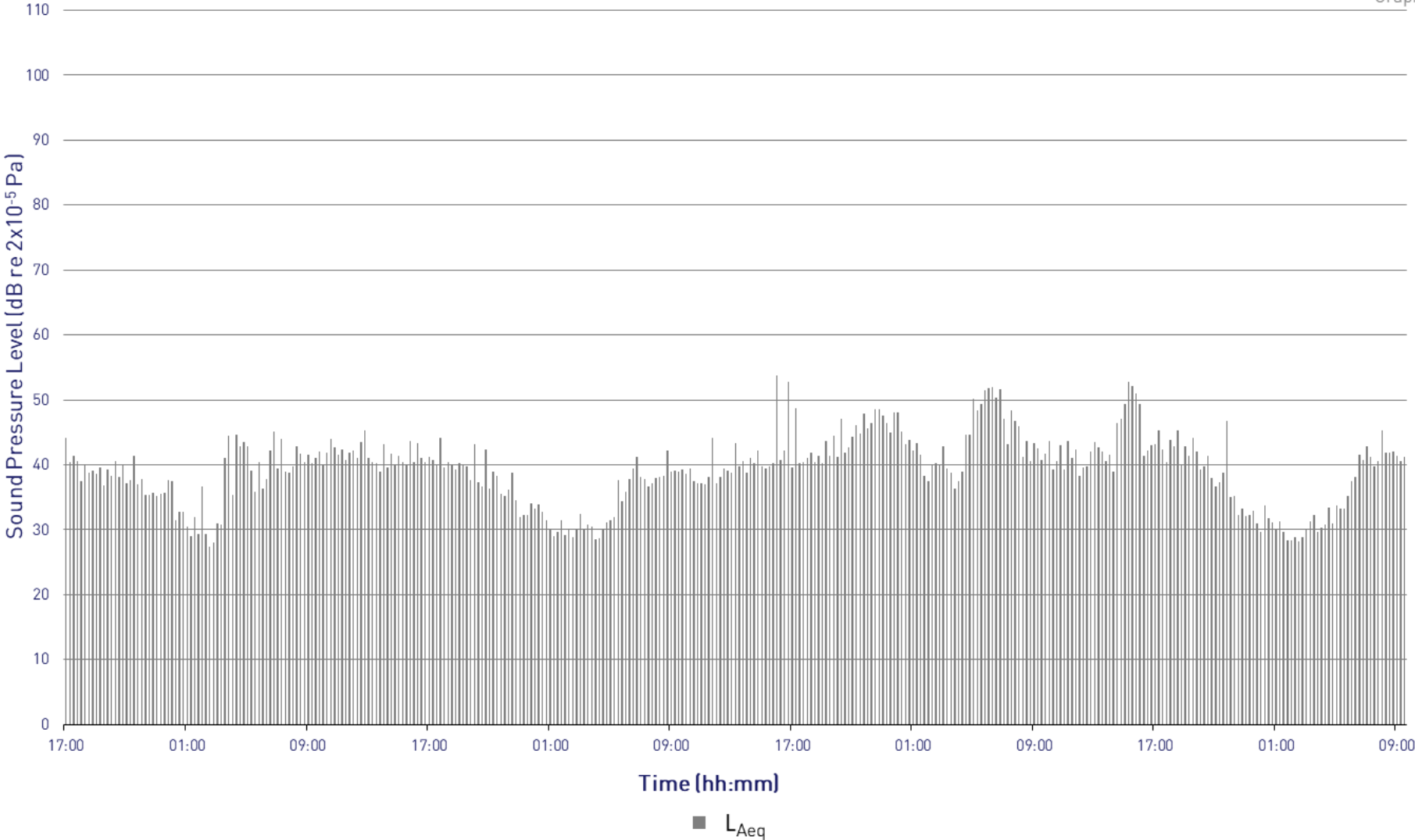
$L_{Aeq}$  Time History

Measurement Position 2 - Thursday 15th February to Monday 19th February 2024



Project:

Graph 3



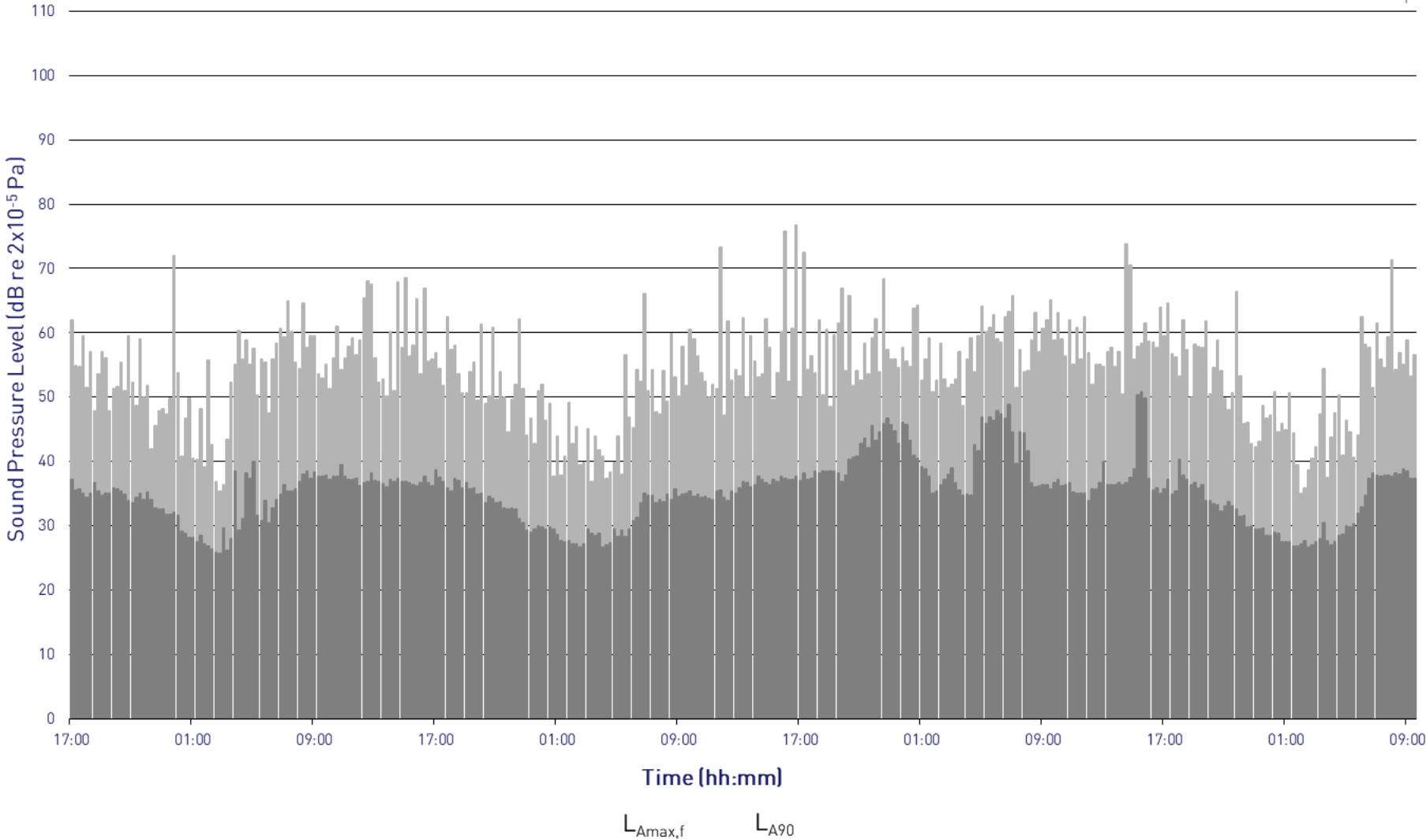
Utopia Village, NW1

$L_{Amax,f}$  and  $L_{A90}$  Time History

Measurement Position 2 - Thursday 15th February to Monday 19th February 2024



Graph 4

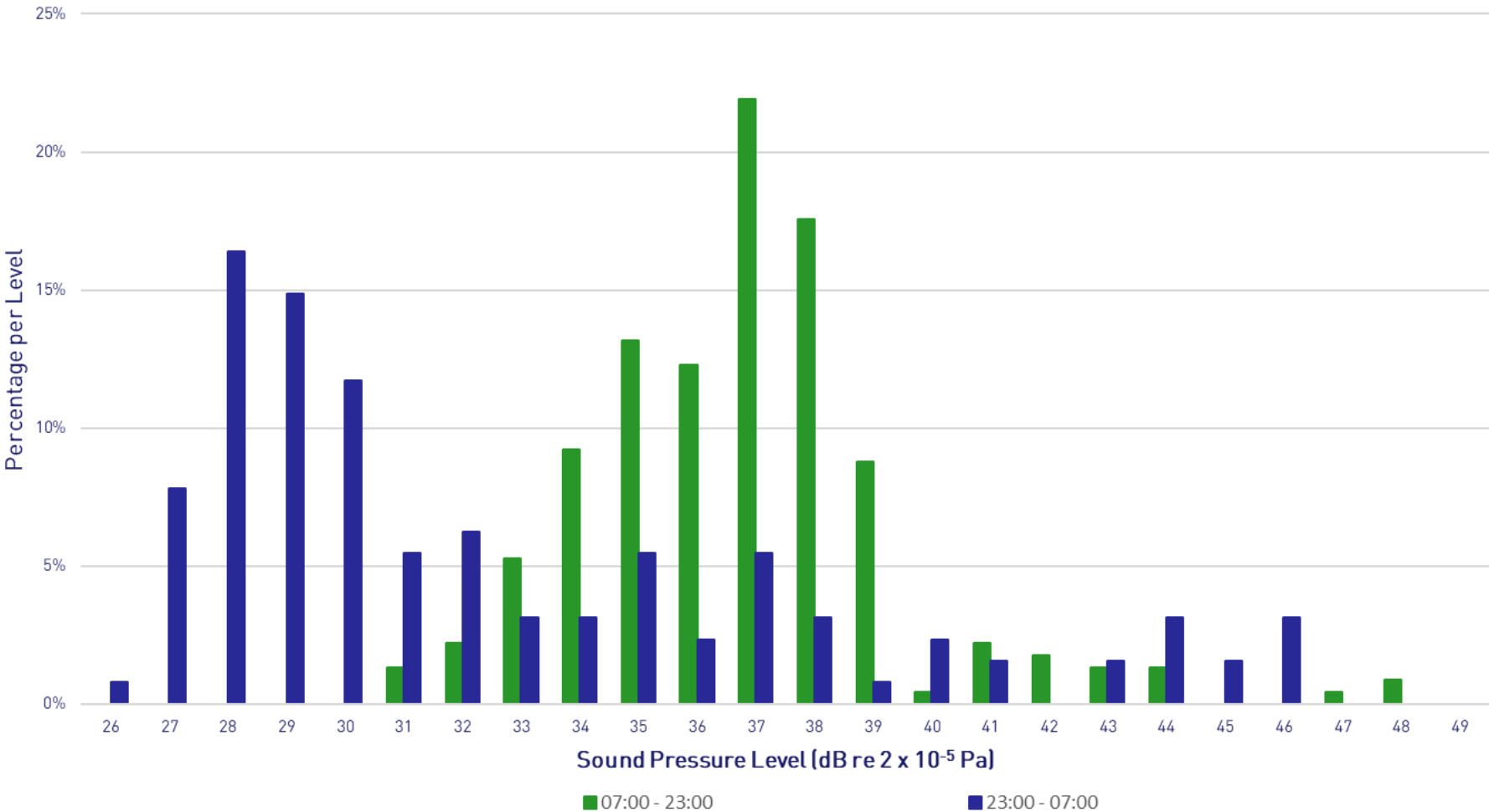


Utopia Village, NW1

$L_{A90,15 \text{ minutes}}$  Histogram

Measurement Position 1 - Thursday 15th February to Monday 19th February 2024

Graph 5



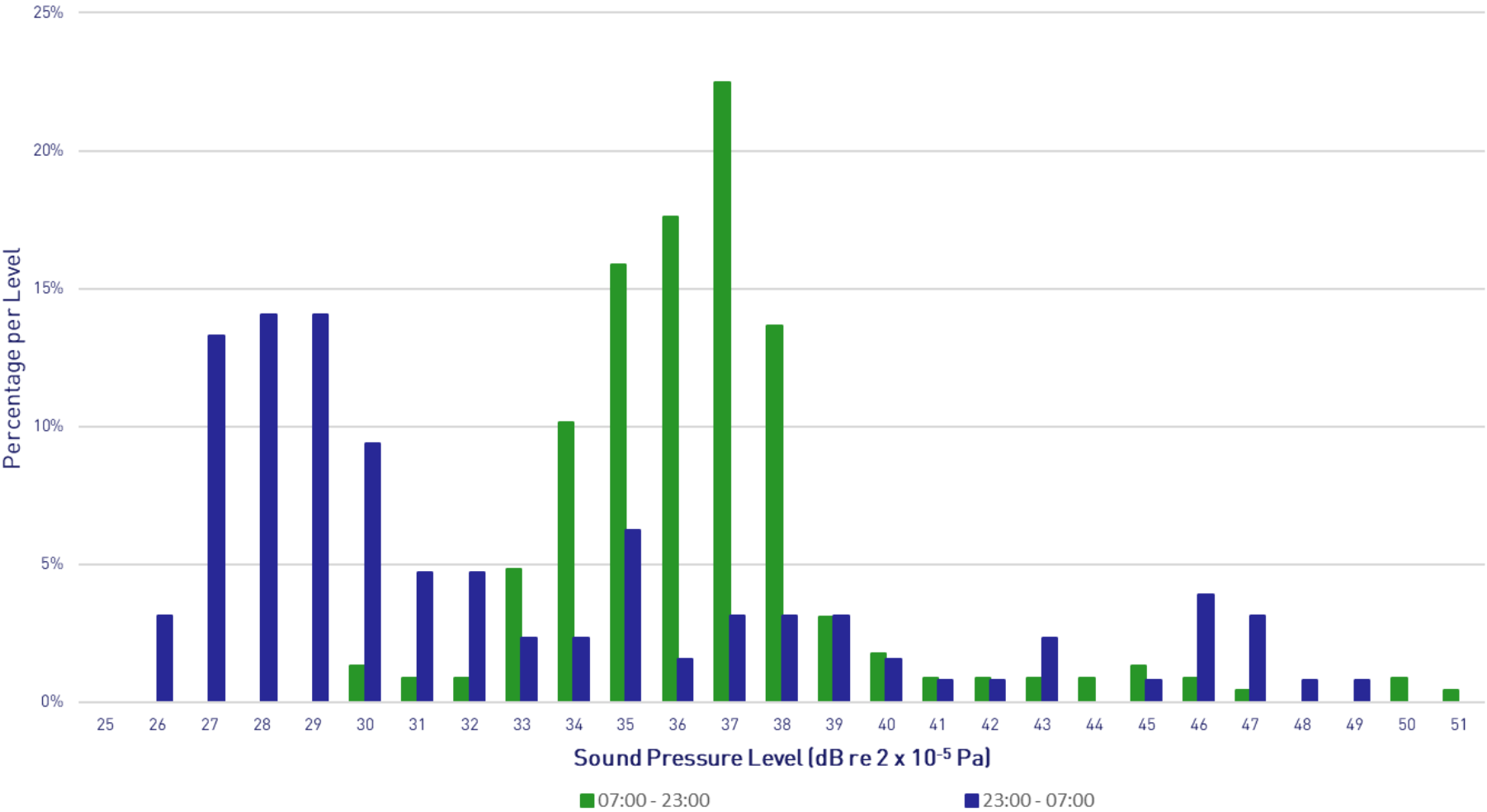


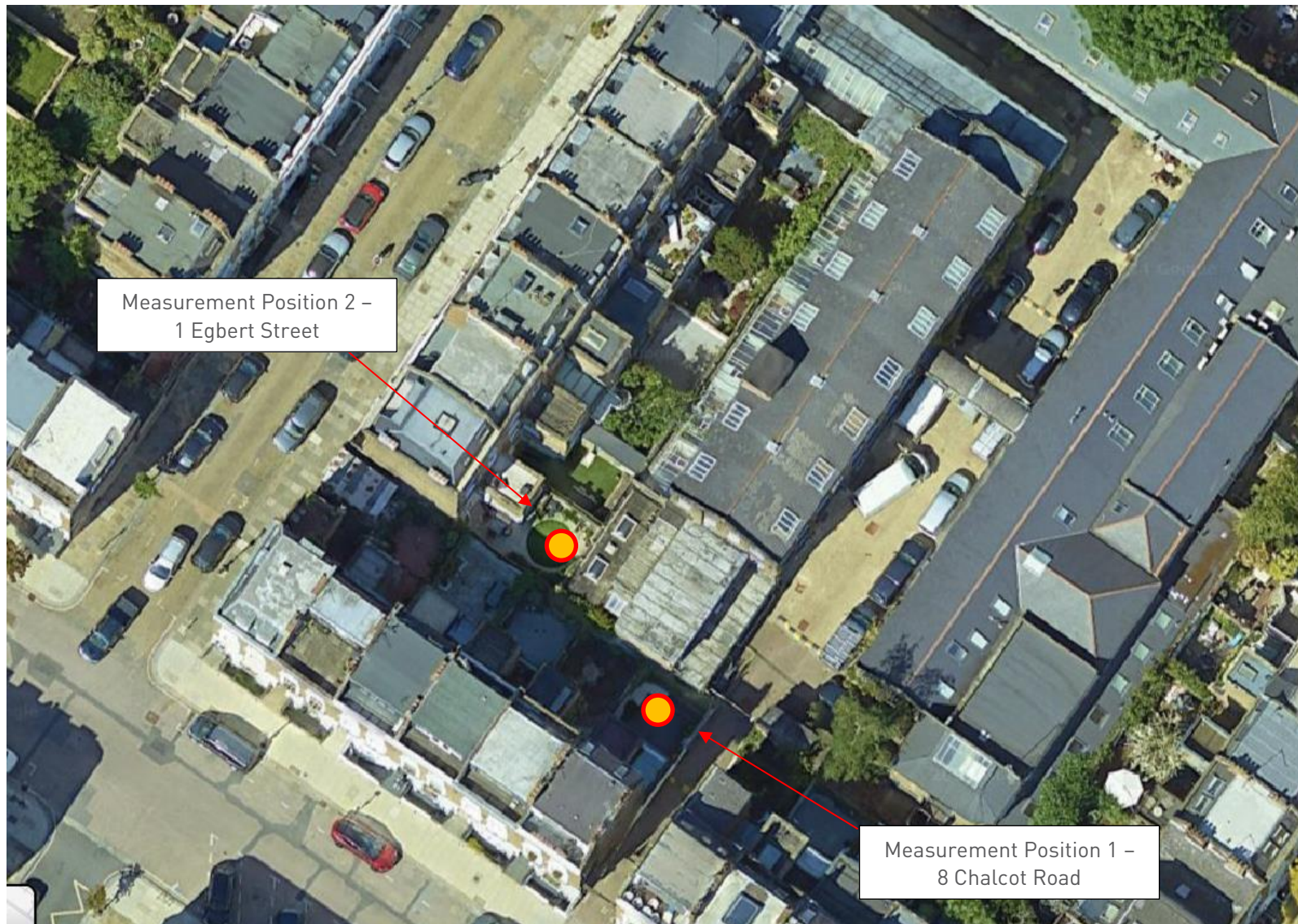
Utopia Village, NW1

$L_{A90,15 \text{ minutes}}$  Histogram

Measurement Position 2 - Thursday 15th February to Monday 19th February 2024

Graph 6





Utopia Village  
Site Plan  
Project 12362

Figure 1  
21 February 2024  
Not to Scale





Measurement Position 1 – 8 Chalcot  
Road, Garden



Measurement Position 2 – 1 Egbert  
Street



Utopia Village  
Photographs Showing Measurement Locations  
Project 12362

Figure 2  
21 February 2024  
Not to Scale