

***Refurbishment of Sunnyside Cottage,
Mortimers Lane, Fair Oak, Eastleigh***

***Ambient Noise Impact Assessment
Report***

Report No: 262/Rep 1/Rev 0/June 2026



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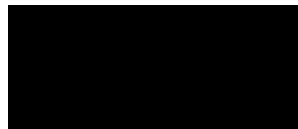
FINAL REPORT

REPORT NO: **262/Rep 1/Rev 0/JUNE 2026**

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Report Status

Final

SUMMARY

The proposal is to modernize and extend the existing detached Sunnyside Cottage. This property is located on Mortimers Lane just east of Fair Oak and adjacent to Animal Welfare. The local authority requested an assessment of the noise impact affecting this proposal.

The area in the vicinity of this cottage is predominantly rural. Immediately adjacent to this cottage is St Francis Animal Welfare. The main sources of noise impacting Sunnyside Cottage are road traffic and activities within the animal welfare, bird-chirp and the rustling of leaves. There is an off-road slip providing access to Sunnyside Cottage and Animal Welfare that increases the distance between the line of road traffic and the cottage, and this mitigates the impact of road traffic noise.

To ascertain compliance with national guidelines, three sound level meters were installed to measure the typical ambient noise levels close to the cottage: 1m from the rear façade that is considered most likely to be impacted by animal noises, 1m from the side façade facing the animal welfare and 1m from the front façade facing Mortimers Lane. The noise survey commenced on Thursday, 18th June 2026 and the equipment was collected on the following Tuesday. A short noise survey was carried out on Thursday during a walk-around within the animal welfare grounds.

Results show that noise levels were clearly higher on the front façade, these average hourly values being low-60s dB L_{Aeq} for daytime and low-50s dB L_{Aeq} for night-time. Noise levels on the rear and side façades were very similar, being 8-10 dB lower compared to the front façade.

Based on guidelines in BS8233 which states 'the average noise levels in bedrooms of 35 and 30 dB L_{Aeq} for daytime and night-time periods', respectively, then a window configuration of Rw28 would be acceptable. This is based on the worst-case scenario of noise levels measured on the front façade.

ProPG recommends that for bedrooms at night-time, events causing maximum noise level of more than 45 dB L_{Amax} are restricted to about 10 events. At Sunnyside Cottage, the highest measured noise level on front façade was low-70s dB L_{Amax} on less than 10 events, the internal noise levels based on glazing with sound reduction performance of approx. 28 dB, would be well below 45 dB L_{Amax} . Consequently, this ProPG requirement is met.

Noise ratings take into consideration the frequency components of the noise impact. In general, the local authority expects a Noise Rating of NR30 for average noise levels during daytime and NR25 for average noise levels during night-time. The sound reduction values of glazing construction 4/14/6 were subtracted from the daytime and night-time average and highest measured noise levels in octave band frequency, and these are plotted on NR curves. The resulting internal daytime and night-time noise ratings for average noise levels are found to be NR21 and NR7, respectively. The ratings for maximum recorded noise values are NR29 for daytime and NR18 for night-time, respectively. Consequently, internal noise levels meet the local authority's requirements, even for the highest measured noise levels.

Glazing configuration with sound reduction of Rw28 dB is recommended for windows throughout.

As regards mitigating overheating in rooms in buildings, the external daytime noise levels are low-60s dB L_{Aeq} , and with selected glazing configurations incorporating acoustic trickle vents, the predicted internal noise levels within bedrooms would meet recommended values in BS8233. As sound reduction afforded by open windows is approx. 15 dB, the internal noise levels would exceed requirements with open windows, consequently, mechanical ventilation is

recommended.

Dogs barking created the highest noise impact, and a level of 64 dB was measured at the side façade and slightly lower at the rear façade. Dogs do not bark continuously and only bark at feeding and exercise times. This is no different from other dog walkers whose dogs bark on seeing other dogs, etc., seen on the footpath and nature trails in the area. It is considered that noise impact of these infrequent noise events in this context is minor and a full BS4142 assessment is not justified. This ambient noise survey shows that there were no dogs barking at night-time over five nights, which confirms comments made by staff that dogs barking at night-time is very rare because there is no one around to disturb them.

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1. INTRODUCTION

The proposal is to modernize and extend the existing detached Sunnyside Cottage. This property is located on Mortimers Lane just east of Fair Oak and adjacent to Animal Welfare. The local authority requested an assessment of the noise impact affecting this proposal.

The client approached Dr H S Sagoo – an experienced independent Noise and Vibration Consultant – to undertake the noise survey and prepare the requisite noise assessment.

This report describes the site, the area surrounding this site, brief details of the proposal, an outline of the assessment methodology, the findings of the noise survey and assessment of the noise impact in accordance with the appropriate national guidance.

2. DESCRIPTION OF THE SITE

Sunnyside Cottage is located in Mortimers Lane about 1.6km east of Fair Oak and about 3.6km east of Eastleigh. Mortimers Lane is a busy road because it connects Eastleigh to Bishops Waltham and other small residential areas. See map in Figure 1.

The area in the vicinity of this cottage is predominantly rural and there are houses just a few hundred metres to the west. Immediately adjacent to this cottage is St Francis Animal Welfare and stables neighbouring that.

The main sources of noise impacting Sunnyside Cottage are road traffic and activities within the animal welfare, bird-chirp and the rustling of leaves. A couple of aircraft were seen during our site visit to set up the noise monitoring equipment. There is an off-road slip providing access to Sunnyside Cottage and Animal Welfare that increases the distance between the line of road traffic and the cottage, and this mitigates the impact of road traffic noise.

3. DETAILS OF PROPOSED DEVELOPMENT

It is understood that this cottage would be renovated to provide temporary accommodation for guests attending weddings at venues nearby. Further details can be obtained from the client.

4. THE NATURE, MEASUREMENT AND EFFECT OF NOISE

Noise is often defined as sound that is undesired by the recipient. For the present purposes it is considered to be noise from animals and road traffic.

Whilst it is impossible to measure nuisance caused by noise directly, it is possible to measure the loudness of that noise. 'Loudness' is related to both sound pressure and frequency, both of which can be measured. The human ear is sensitive to a wide range

of sound levels. The sound pressure level of the threshold of pain is over a million times that of the quietest audible sound. In order to reduce the relative magnitudes of the numbers involved, a logarithmic scale of decibels (dB) is normally used, based on a reference level of the lowest audible sound. The response of the human ear is not constant over all frequencies. It is therefore usual to weight the measured frequencies to approximate the human response. The resulting 'A' weighted decibel, dBA, has been shown to correlate closely to the subjective human response.

When relating to changes in noise, a change of ten decibels from say 60 dBA to 70 dBA would represent a doubling in 'loudness'. Similarly, a decrease in noise from 70 dBA to 60 dBA would represent a halving in 'loudness'. A change of 3 dBA is generally considered to be just perceptible, and a change of 1 dBA is generally not discernible.

In general, noise from a high volume of road traffic tends to be continuous in nature. Noise levels from road traffic are dependent on the amount of traffic, the speed, and the percentage of heavy goods vehicles amongst other things. In contrast, noise from trains is intermittent; there is a steady rise in noise level to a peak which may be sustained for a number of seconds, depending on the length of the train and its speed, then a dying down in noise level as the train moves away from the observer position to revert to the background noise.

5. NOISE ASSESSMENT CRITERIA

Internal noise level

The local authority takes account of guidance in the National Planning Policy Framework¹ and as regards noise in bedrooms/living rooms the NPPF refers to BS 8233² which is discussed below.

Table 4 of BS8233 recommends the internal noise levels for residential development, and this has been reproduced in the table below.

Criterion	Typical Situations	L _{Aeq,T} dB	
		Daytime 07:00 to 23:00	Night-time 23:00 to 07:00
Resting	Living rooms	35 dB L _{Aeq, 16 hr}	-
Dining	Dining room/area	40 dB L _{Aeq, 16 hr}	-
Sleeping (daytime resting)	Bedroom	35 dB L _{Aeq, 16 hr}	30 dB L _{Aeq, 8 hr}

Table 1 BS 8233 Indoor ambient noise levels for dwellings

The World Health Organisation³ recommends environmental daytime and evening noise limits to avoid unnecessary annoyance. The recommended maximum external environmental daytime noise in amenity areas is 55 dB L_{Aeq} over the 16-hour period (07.00–23.00 hrs). For the evening, a 48 dB L_{Aeq, 8hr} noise level (23.00–07.00 hrs) is a recommended maximum.

¹ National Planning Policy Framework, Department for Communities and Local Government, London 2024.

² British Standard 8233:2014 'Guidance on Sound Insulation and Noise Reduction for Buildings, BSI.

³ World Health Organisation, 'Environmental Noise Guidelines for the European Region, 2018.

In addition, good acoustic advice is given in ProPG – Planning and Noise⁴ which has been arranged by various professional bodies. It has certain advice that is accepted here. The ProPG document adds clarification to Table 4 in BS8233:2014 by text in blue as follows.

ACTIVITY	LOCATION	07:00 – 23:00 HRS	23:00 – 07:00 HRS
Resting	Living room	35 dB $L_{Aeq,16\text{ hr}}$	-
Dining	Dining room/area	40 dB $L_{Aeq,16\text{ hr}}$	-
Sleeping (daytime resting)	Bedroom	35 dB $L_{Aeq,16\text{ hr}}$	30 dB $L_{Aeq,8\text{ hr}}$ 45 dB $L_{Amax,F}$ (Note 4)

NOTE 1 The Table provides recommended *internal L_{Aeq} target* levels for overall noise in the design of a building. These are the sum total of structure-borne and airborne noise sources. Ground-borne noise is assessed separately and is not included as part of these targets, as human response to ground-borne noise varies with many factors such as level, character, timing, occupant expectation and sensitivity.

NOTE 2 The *internal L_{Aeq} target* levels shown in the Table are based on the existing guidelines issued by the WHO and assume normal diurnal fluctuations in external noise. In cases where local conditions do not follow a typical diurnal pattern, for example on a road serving a port with high levels of traffic at certain times of the night, an appropriate alternative period, e.g. 1 hour, may be used, but the level should be selected to ensure consistency with the *internal L_{Aeq} target* levels recommended in the Table.

NOTE 3 These *internal L_{Aeq} target* levels are based on annual average data and do not have to be achieved in all circumstances. For example, it is normal to exclude occasional events, such as fireworks night or New Year's Eve.

NOTE 4 Regular individual noise events (for example, scheduled aircraft or passing trains) can cause sleep disturbance. A guideline value may be set in terms of SEL or $L_{Amax,F}$, depending on the character and number of events per night. Sporadic noise events could require separate values. In most circumstances in noise-sensitive rooms at night (e.g. bedrooms) good acoustic design can be used so that individual noise events do not normally exceed 45dB $L_{Amax,F}$ more than 10 times a night. However, where it is not reasonably practicable to achieve this guideline then the judgement of acceptability will depend not only on the maximum noise levels but also on factors such as the source, number, distribution, predictability and regularity of noise events (see Appendix A).

NOTE 5 Designing the site layout and the dwellings so that the internal target levels can be achieved with open windows in as many properties as possible demonstrates good acoustic design. Where it is not possible to meet internal target levels with windows open, internal noise levels can be assessed with windows closed, however any façade openings used to provide whole dwelling ventilation (e.g. trickle ventilators) should be assessed in the "open" position and, in this scenario, the internal L_{Aeq} target levels should not normally be exceeded, subject to the further advice in Note 7.

NOTE 6 Attention is drawn to the requirements of the Building Regulations.

NOTE 7 Where development is considered necessary or desirable, despite external noise levels above WHO guidelines, the internal L_{Aeq} target levels may be relaxed by up to 5 dB and reasonable internal conditions still achieved. The more often internal L_{Aeq} levels start to exceed the internal L_{Aeq} target levels by more than 5 dB, the more that most people are likely to regard them as "unreasonable". Where such exceedances are predicted, applicants should be required to show how the relevant number of rooms affected has been kept to a minimum. Once internal L_{Aeq} levels exceed the target levels by more than 10 dB, they are highly likely to be regarded as "unacceptable" by most people, particularly if such levels occur more than occasionally. Every effort should be made to avoid relevant rooms experiencing "unacceptable" noise levels at all and where such levels are likely to occur frequently, the development should be prevented in its proposed form (see Section 3.D).

Table 2 ProPG noise level guidelines (additions to BS8233 shown in blue)

⁴ Professional Practice Guidance on Planning & Noise – New Residential Developments, IOA, ANC & CIEH, May 2017

BS4142 assessment

The impact likely to be caused by noise of activities of an industrial nature on the nearest dwellings is assessed in accordance with British Standard 4142:2014+A1:2019⁵. This standard gives guidance on measurement and assessment of the noise impact and determines whether this is likely to give rise to complaints.

In essence, the noise level and the character of noise caused by the specific source, called the rating level, is measured, and rated against the lowest measured ambient background level during the operating hours. The greater this difference the greater is the magnitude of the impact, as given in the table below. This standard states the reference time interval is 1 hour during the day, 07:00 to 23:00 hrs, and 15 minute during the night, 23:00 to 07:00 hrs.

Acoustic Features

This standard allows a correction of up to 6 dB that can be added for source noises with a *“tone, whine, hiss, screech, hum, roar or other distinctive feature”*. In addition, a correction of up to 9 dB can be added for *“distinct impulses”* such as *“bangs, clicks, clatters or thumps”*.

Difference in dB	Comment
+10 dB or more	Likely to be an indication that a significant adverse impact, depending on the context;
+5 dB	Could be an indication that a significant adverse impact, depending on the context;
The lower the rating level is relative to the measured background level	The less likely it is that there will be an adverse impact.

Table 3 BS 4142:2014+A1:2019 Assessment Criteria

6. EXISTING NOISE CLIMATE

Noise measurement locations

To ascertain compliance with national guidelines, three sound level meters were installed to measure the typical ambient noise levels close to the cottage. Location 1, the meter was positioned 1m from the rear façade that is considered most likely to be impacted by animal noises, Location 2, the meter was positioned 1m from the side façade facing the animal welfare, and Location 3, the meter was 1m from the front façade facing Mortimers Lane. These locations are shown in Photos 1 to 3 in Appendix B. The noise survey commenced on Thursday, 18th June 2026 and the equipment was collected on the following Tuesday. A short noise survey was carried out on Thursday during a walk-around within the animal welfare grounds.

All measurements were made in accordance with the guidelines given in BS7445⁶.

⁵ British Standard 4142:2014+A1:2019, 'Method for rating and assessing industrial and commercial sound'.

⁶ BS7445: 1991 'Description and measurement of environmental noise', BSI.

Noise measuring equipment

Noise measurements were taken using three Type 1 precision sound level meters manufactured by 01dB (serial numbers 10485, 11649 and 60354) with current certificates of calibration. The meters were calibrated on site before and after the measurements using a 01dB Calibrator (serial number 00130366). No deviation was found in the calibration values before and after the measurements.

Weather conditions

The weather at the start of the measurements was dry, sunny and warm. At the start of the survey on Thursday, the wind was very light southerly 0.5 m/s average and 0.8 m/s gusts.

7. NOISE MEASUREMENT RESULTS

Results of long-term ambient noise measurements

Full details of the measurement results are given as hourly average values in Appendix C and the time histories are given in Figures 2. The average and the maximum values for daytime and night-time hourly noise levels are summarised in Table 4 for all locations.

Period start	Loc 1. Rear façade facing open field and Animal Welfare				Loc 2. Side façade facing Animal Welfare				Loc 3. Front façade facing Mortimers Lane			
	LAeq	LAmix	LA90	LA10	LAeq	LAmix	LA90	LA10	LAeq	LAmix	LA90	LA10
Daytime – hourly												
Thurs from 14:00hrs – Average	50.5	62.1	38.5	54.4	50.9	63.5	38.2	54.7	62.5	75.8	40.7	67.1
Thurs from 14:00 - Max values	53.0	67.3	45.0	56.0	53.9	71.3	45.4	57.4	65.8	83.5	47.8	69.7
Fri - Average	51.9	62.9	41.2	55.4	50.7	63.4	39.1	54.4	62.7	75.8	42.4	67.3
Fri – Max values	57.2	73.2	46.9	57.9	54.4	76.4	45.7	57.6	65.5	87.2	47.4	69.6
Sat – Average	51.3	62.8	39.5	55.2	51.2	64.5	37.6	55.0	62.0	75.5	40.0	66.9
Sat - Max values	55.0	68.4	45.7	58.6	55.9	74.8	42.2	60.6	65.3	81.4	48.2	69.9
Sun - Average	49.4	61.0	35.9	53.3	50.3	64.1	36.4	53.7	61.3	75.4	36.9	66.1
Sun – Max values	51.3	68.7	39.4	55.1	53.3	72.7	41.0	57.1	63.8	83.8	41.2	67.8
Mon – Average	51.7	64.0	43.1	54.9	53.7	67.2	43.6	56.9	62.2	76.6	41.6	66.4
Mon – Max values	57.1	68.6	48.6	61.1	59.9	80.2	50.5	64.5	65.3	84.6	48.2	69.4
Night-time – hourly												
Thurs - Average	42.4	58.3	30.1	43.4	41.5	58.5	28.0	42.9	52.0	71.7	30.3	45.7
Thurs – Max values	51.6	62.4	42.9	55.6	50.9	62.8	41.9	54.7	62.4	74.9	38.6	68.0
Fri – Average	42.5	59.0	27.5	43.2	40.0	58.8	25.2	39.9	51.3	72.0	27.8	43.6
Fri - Max values	51.1	62.3	38.3	55.0	48.7	66.1	34.2	52.8	56.9	76.5	35.7	58.0
Sat – Average	44.5	61.2	29.3	46.2	43.5	60.4	28.9	45.1	51.8	72.6	28.9	46.2
Sat - Max values	51.8	66.3	38.3	55.6	47.8	65.2	38.7	51.5	56.8	78.1	35.1	57.9
Sun – Average	41.1	56.0	27.9	42.9	41.9	57.0	28.4	43.2	49.5	67.2	28.0	43.7
Sun - Max values	51.9	63.2	43.2	55.2	53.0	62.2	42.4	56.6	62.0	75.4	41.5	67.2
Mon – Average	41.1	57.7	28.9	41.9	41.7	58.3	28.9	41.8	50.9	71.1	31.5	42.5
Mon - Max values	52.0	64.5	42.7	55.2	53.6	63.6	43.7	57.2	63.0	77.2	42.0	68.0

All noise levels are in dBA

Table 4 Average and maximum hourly noise values for all three locations

Values shown in bold are the highest values for daytime and night-time at each location. Time histories of the ambient long-term noise measurements are shown in Figure 3.

Noise from animal welfare

It is understood that St Francis Animal Welfare caters for stray or unwanted pets, primarily dogs and cats but also includes other pets. It is understood that animals are given breakfast at 08:00 hrs, and then approx. 10:00 hrs dogs are then taken one by one to an open area adjacent to the kennels for exercise and then individually taken for a longer walk on nearby public paths by a volunteer. Light background music is played continuously indoors to comfort the animals. During night-time the welfare is not staffed but staff are available to attend, however, animals howling or barking at night-time is very rare, because there is no-one to disturb them.

A walk-through the various buildings within the welfare area had been arranged. Sound level meters at Locations 1 and 2 had already been installed and the third SLM was taken during this walk-through. All SLMs were synchronised. The recorded sound levels are given in the table below and shown in Figure 2. The time traces for the period of the walk-through and 15 minutes after the visit are shown in Figure 3. Noise of dogs are not clearly identifiable at the rear and side façades from these noise traces.

Time / area within animal welfare	Noise level dB L _{Aeq}	
	Within Animal Welfare	At rear / side façade
14:05 outside another set of cats' cages – 10 cats	41 – 46	
14:08 dogs getting ready for walks – outside kennels alleyway	84	57 / 58
14:10:40 dog barking in kennel	93	No peak / 55
14:13 dog barking in kennel	99	51 / 60
14:13:50 dogs barking outside kennel	93	58 / 64

Table 5 Noises of dogs and cats in Animal Welfare

8. ASSESSMENT OF MEASURED NOISE LEVELS

BS8233 – consideration of Internal noise level in terms of L_{Aeq}

Results show that noise levels were clearly higher on the front façade, these average hourly values being low-60s dB L_{Aeq} for daytime and low-50s dB L_{Aeq} for night-time. Noise levels on the rear and side façades were very similar, being 8-10 dB lower compared to the front façade.

The likely noise level within a typical building can be estimated by using the procedures in BS8233 based on; the measured free-field external noise levels, typical acoustic properties of the building elements and of a typical room together with given glazing

configuration. The glazed area in the façade should be less than 50% of the area of the whole wall, i.e. the calculation procedure does not apply to floor to ceiling glazing.

The internal noise levels were calculated based on measured daytime and night-time noise exposures and on a glazing configuration that includes an acoustic trickle ventilator, and these are given in the table below. For the worst-case scenario, the higher free-field noise levels measured on the front façade have been used.

	Glazing configuration Glass/air gap/glass in mm				
	4/16/4	4/14/6	6/12/6	4/12/7	6mm glass
Daytime noise level					
Average	26.3	22.9	26.6	22.0	28.5
max event	32.4	28.8	33.0	27.7	32.6
Night-time noise level					
Average	14.3	11.0	14.5	10.2	17.6
max event	24.6	21.1	24.6	20.3	28.0

All noise levels are in dB

Table 6 Calculated internal noise levels for various glazing

	Octave band centre frequency Hz						Sound reduction Rw
	125	250	500	1000	2000	4000	
4/16/4	20.4	20.1	26.5	39.6	42.4	38.9	
4/14/6	21.5	24.4	32.4	41.1	41	39.8	~36
6/12/6	20	19	29	38	36	45	32
4/12/7	22.4	26.1	32.6	42.2	46.3	44.6	37
6mm glass	20	24	28	29	26	30	28

All noise values are in dB

Table 7 Sound reduction indices for various glazing configurations

Based on guidelines in BS8233 which states ‘the average noise levels in bedrooms of 35 and 30 dB L_{Aeq} for daytime and night-time periods’, respectively, then all of the window configurations given in Table 6 are acceptable, including a single 6mm pane of glass. This is based on the worst-case scenario of noise levels measured on the front façade.

Consideration of maximum noise levels in bedrooms at night-time

The highest maximum noise levels $L_{Amax,1hr}$ measured externally during the night-time hours 23:00 – 07:00 hrs are generally low-60s dB L_{Amax} on the front façade and about 10 dB lower on the side and rear facades. Therefore, to meet the BS8233 acceptance criteria for noise inside the bedroom of 45 dB L_{Amax} , sound reduction of approx. 17 dB would be required from the glazing system. A selection of glazing is given in Table 7, with sound reduction of 28 dB and above.

ProPG – assessment of peak noise events

ProPG recommends that for bedrooms at night-time, events causing maximum noise

level of more than 45 dB L_{Amax} are restricted to about 10 events. At Sunnyside Cottage, the highest measured noise level on front façade was low-70s dB L_{Amax} , with less than 10 events, the internal noise levels based on glazing with sound reduction performance of approx. 28 dB, would be well below 45 dB L_{Amax} . Consequently, this ProPG requirement is met.

Consideration of noise rating

Noise ratings take into consideration the frequency components of the noise impact. In general, the local authority expects a Noise Rating of NR30 for average noise levels during daytime and NR25 for average noise levels during night-time. The sound reduction values of glazing construction 4/14/6, given in Table 6, were subtracted from the daytime and night-time average and highest measured noise levels in octave band frequency and these are plotted on NR curves; see Figure 4. This would represent the spectra of the internal noise.

The resulting internal daytime and night-time noise ratings for average noise levels are found to be NR21 and NR7, respectively. The ratings for maximum recorded noise values are NR29 for daytime and NR18 for night-time, respectively. Consequently, internal noise levels meet the local authority's requirements, even for the highest measured noise levels.

Glazing Requirements

The ambient average hourly noise levels measured close to the cottage are low-60s dB L_{Aeq} for daytime and approx. 10-12 dB lower for night-time. There are no events causing particularly high maximum values. These noise levels are relatively constant and not onerous and, hence, glazing of $Rw28$ dB is recommended for windows throughout.

Preventing over-heating in rooms

As regards mitigating overheating in rooms in buildings, the external daytime noise levels are low-60s dB L_{Aeq} , and with selected glazing configurations incorporating acoustic trickle vents, the predicted internal noise levels within bedrooms given in the table above would meet recommended values in BS8233. The sound reduction afforded by open windows is approx. 15 dB, as a result, the internal noise levels would exceed the requirements with open windows, consequently, from an acoustic requirement, mechanical ventilation is recommended.

BS4142 assessment

Noise levels caused by pets at Animal Welfare at the rear and side facades are given above. Dogs barking created the highest noise impact, and a level of 64 dB was measured at the side façade and slightly lower at the rear façade. Dogs do not bark continuously and only bark at feeding and exercise times. This is no different from other dog walkers whose dogs bark on seeing other dogs, etc., seen on the footpath and nature trails in the area. It is considered that noise impact of these infrequent noise events in this context is minor a full BS4142 assessment is not justified. This ambient noise survey shows that there were no dogs barking at night-time over five nights, which confirms comments made by staff that dogs barking at night-time is very rare because there is no one around to disturb them.

Other considerations

External plant. As mentioned above, mechanical ventilation is necessary only on the front façade to provide ventilation without opening the windows. The unit could be installed in the loft space to minimise any noise impact. No mechanical ventilation is necessary for the rear and side façade. If any new plant, such as ventilation fans, a/c units, etc., are

proposed for other reasons then these would need to be assessed in accordance with BS4142:2014+A1:2019. The source noise has to be rated against the lowest measured background noise level in accordance with this standard.

Construction works. Noise impacts during construction works need to be determined and assessed for daytime and evening, as appropriate, and compared with the measured background noise levels to ascertain the noise impact. This can only be done when details of the works operations become available. The baseline noise levels measured at this rural area are low, and therefore, the noise impact caused by constructions works could be significant, however, there are not many residential houses nearby, but construction noise may adversely affect pets in Animal Welfare.

This assessment has considered the ambient noise as well as the noise from activities that are present at this time. Noise from possible activities or sources in the future cannot be assessed at this moment.

9. RECOMMENDED MITIGATION MEASURES

This noise assessment has found that the ambient noise levels close to Sunnyside Cottage are low and representative of a rural area and are not onerous to achieve the required internal noise levels. As a result, it is recommended that glazing of sound reduction of approx. Rw28 dB is specified for windows throughout the development. It is prudent to provide mechanical ventilation to rooms in the front façade.

ProPG requirements are met for this building.

It is considered that in context of the area with pets in the Animal Welfare and pets taken for walks by their owners, a BS4142 assessment is not appropriate.

No further noise mitigation is required.

Response to Planning Policy

In addressing national planning policy, the assessment has considered the likely effects of noise pollution on health and living conditions, and in doing so, the assessment has mitigated and reduced to a minimum potential adverse impact from noise and avoided noise giving rise to significant adverse impacts on health and quality of life. Consideration has been given to the integration of the proposed development with existing businesses, and mitigation has been recommended in order that existing businesses should not have unreasonable strictions placed on them as a result of the proposed development. As a result, the proposed development can be considered to have satisfied the aims of the National Planning Policy Framework 2024 (paragraphs 187, 198 and 200).

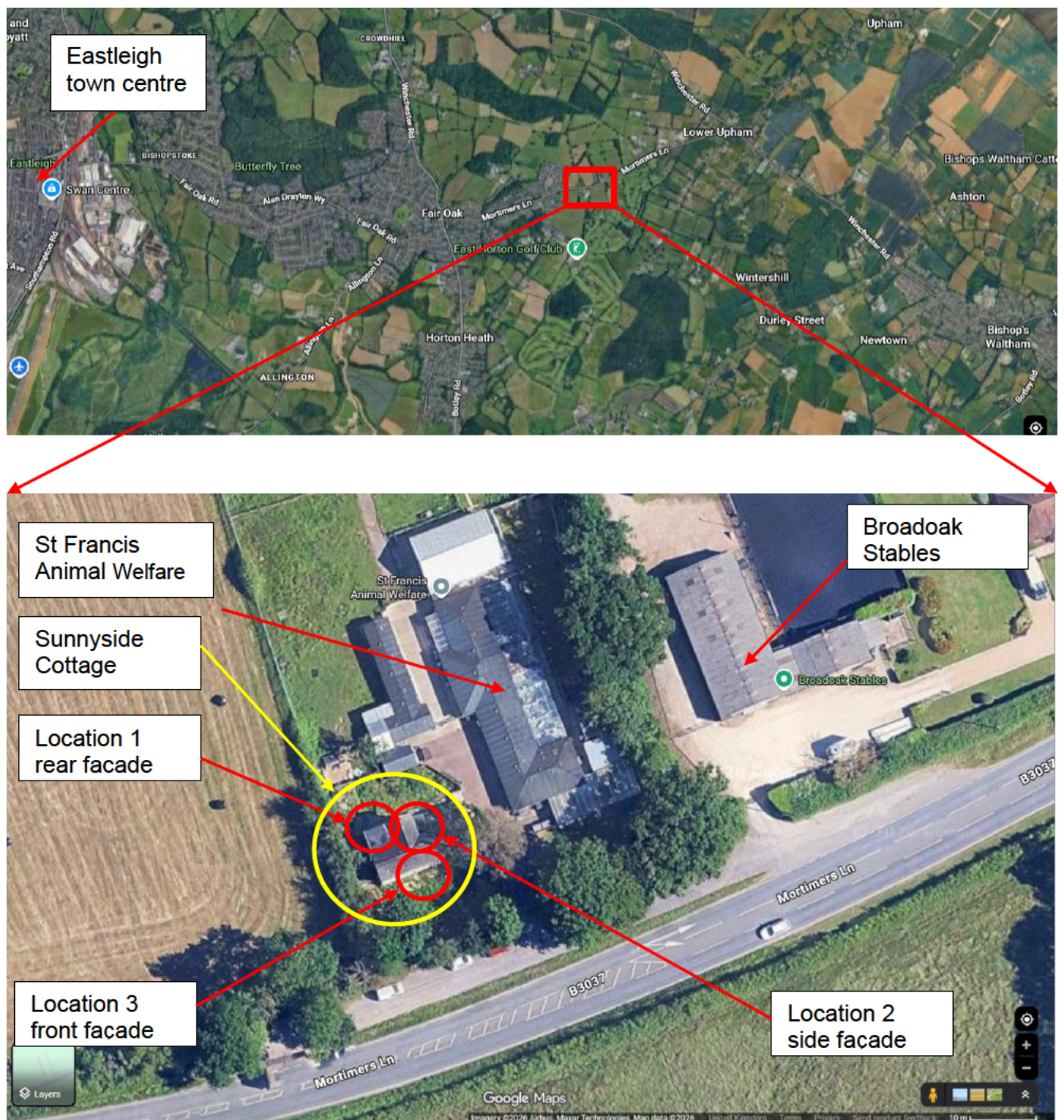
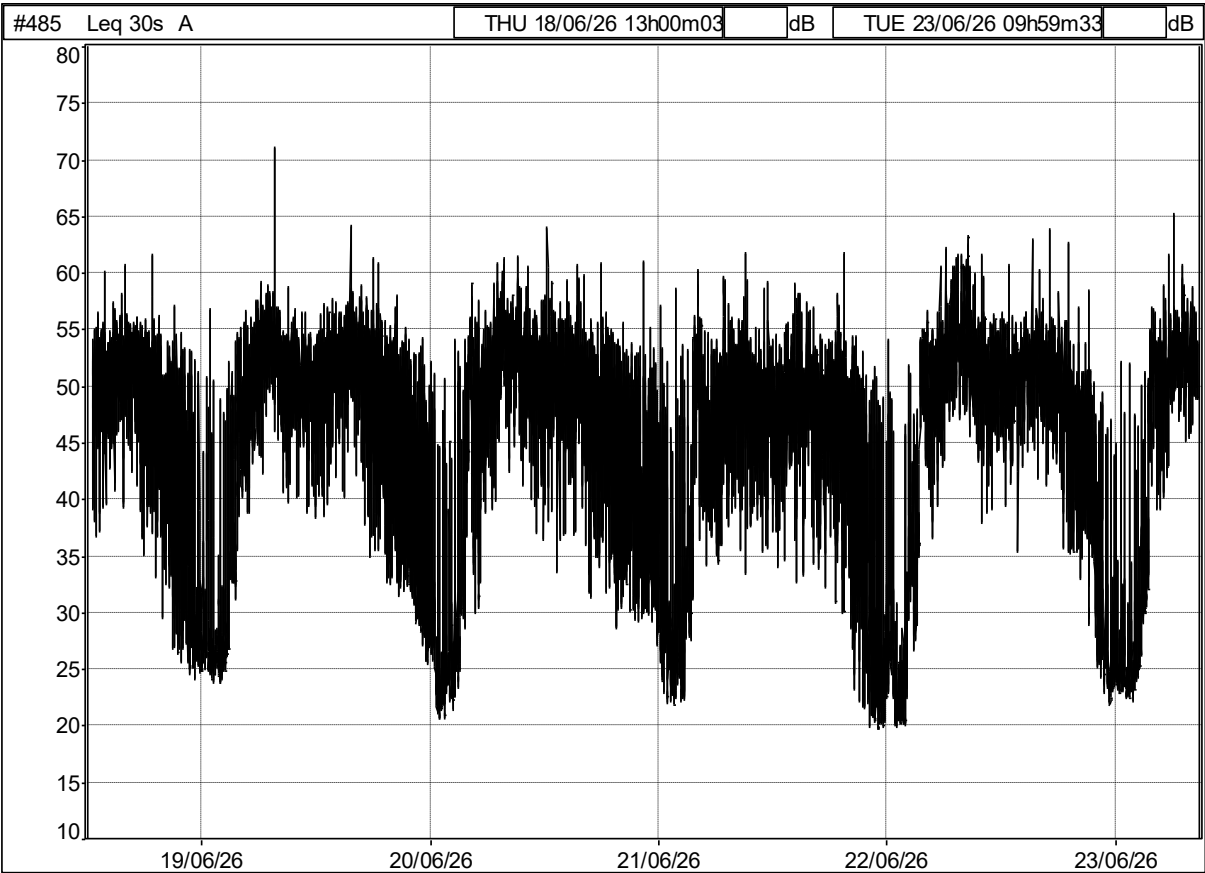
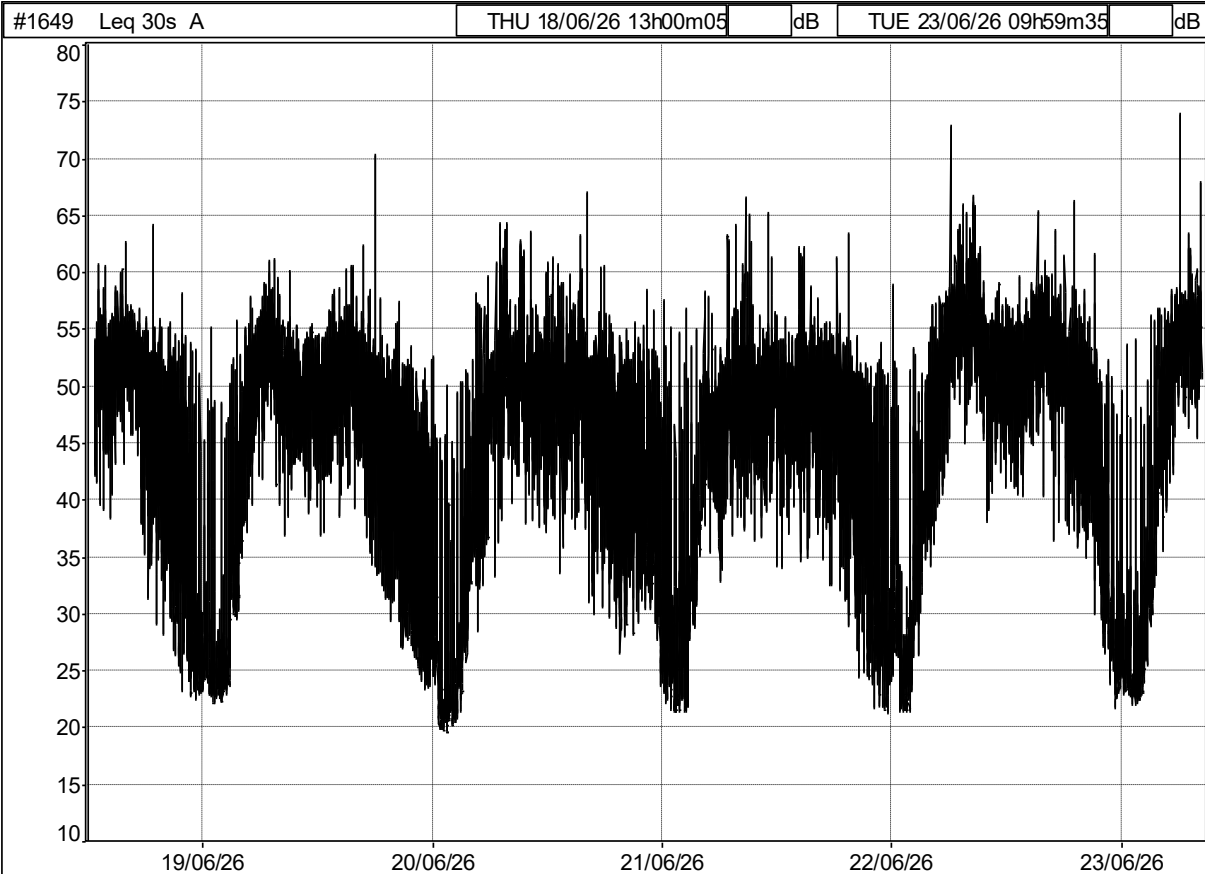


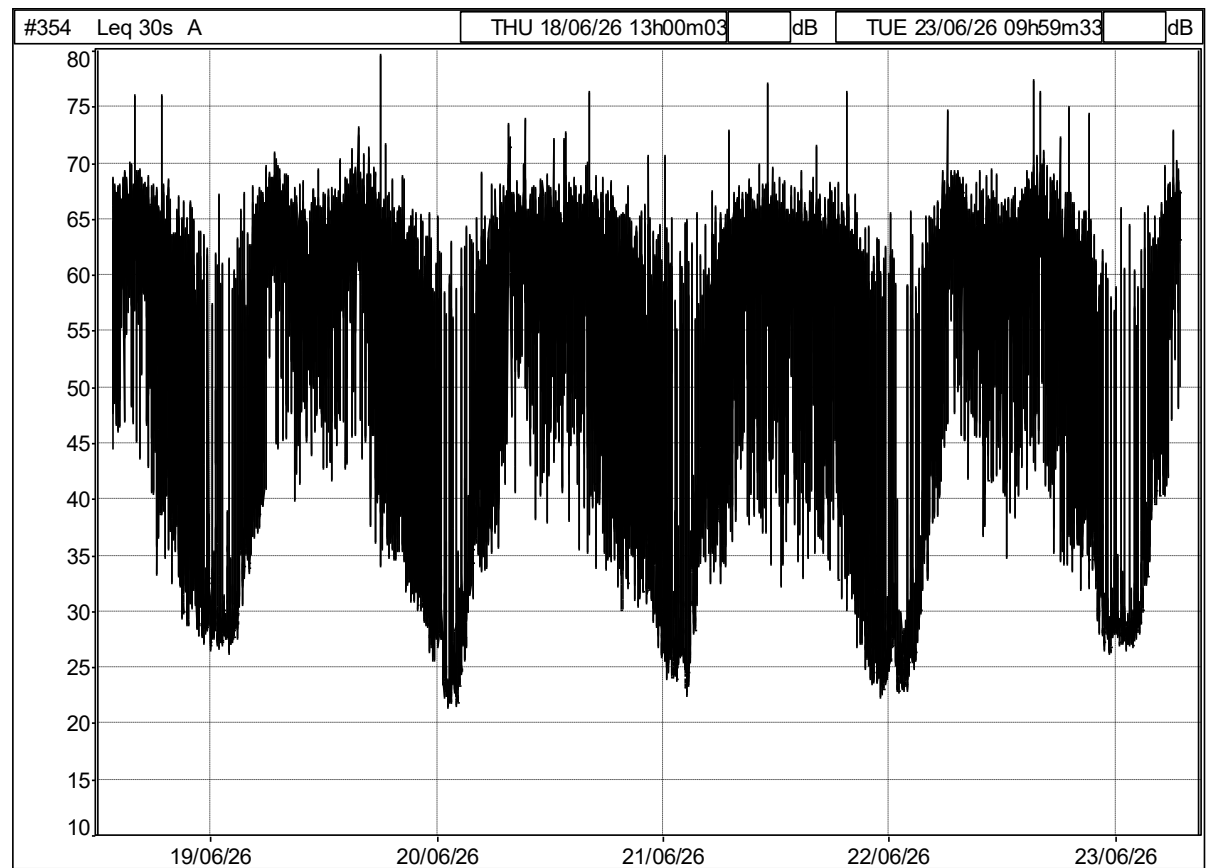
FIGURE 1 Map showing Sunnyside Cottage and noise monitoring locations



Location 1. Rear façade facing countryside



Location 2. Side façade facing Animal Welfare

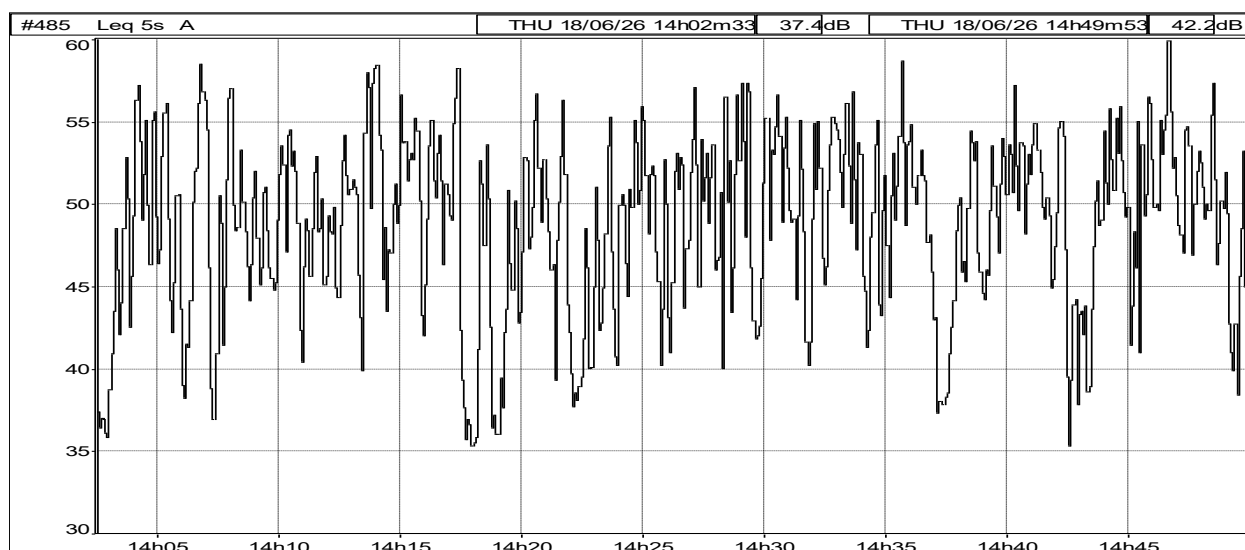


Location 3. Front façade facing Mortimers Lane

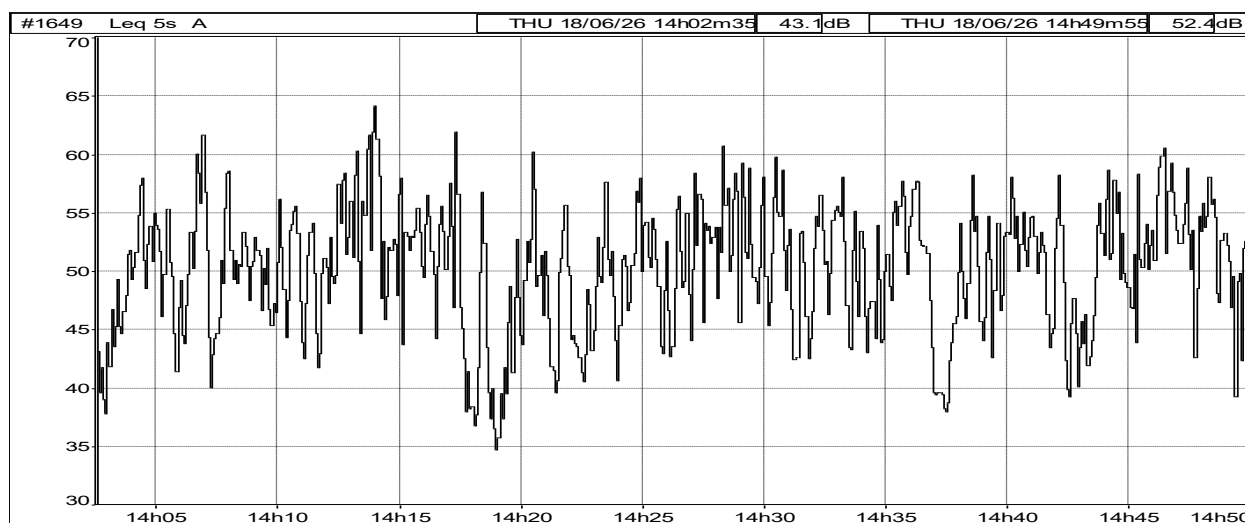
FIGURE 2 Time histories of long-term noise measurements



Noise levels measured during the walk-through Animal Welfare

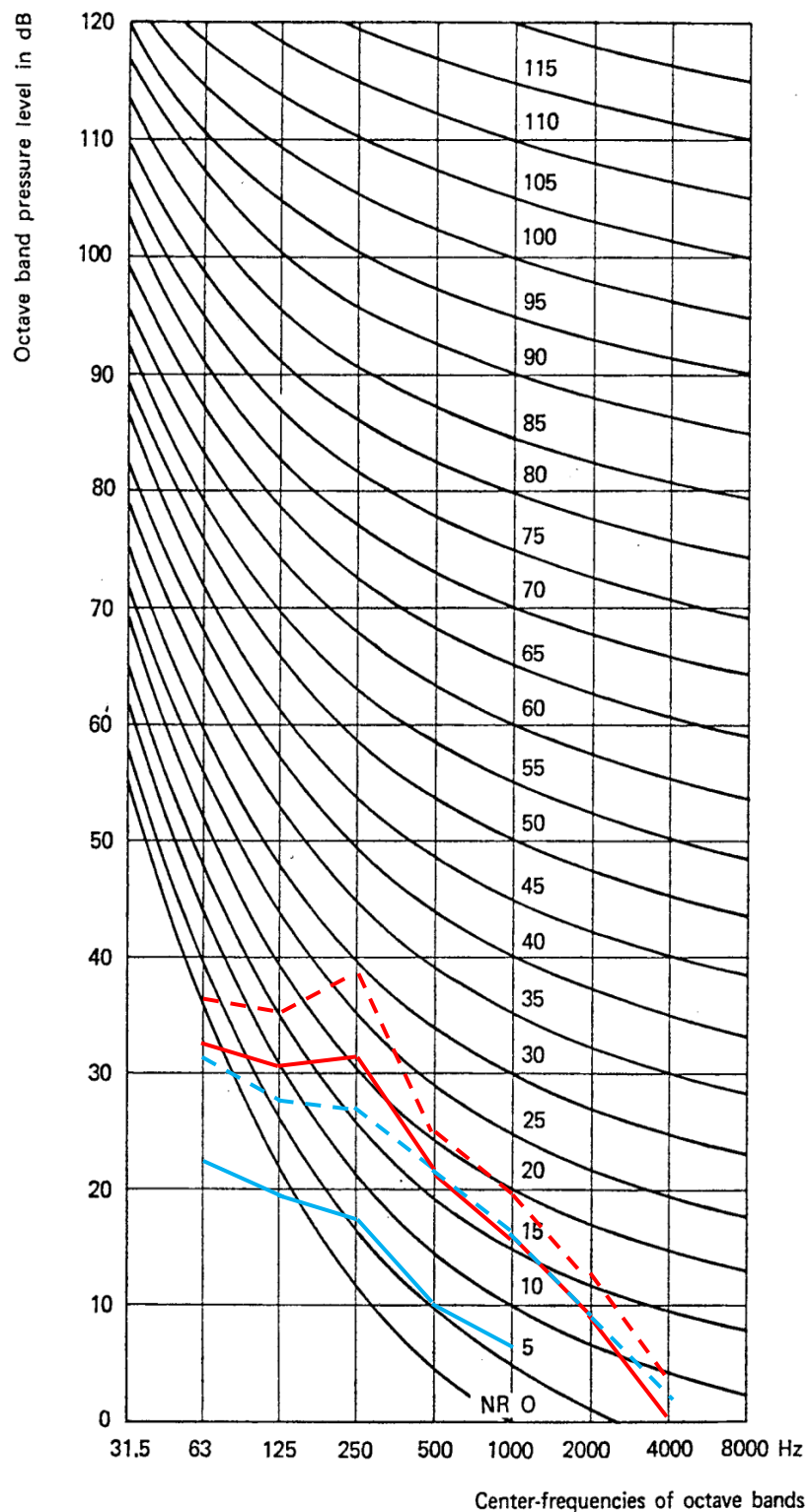


Noise levels at the rear facade



Noise levels at the side facade

FIGURE 3 Time histories of noise during walk-through and just afterwards



Average daytime hourly noise levels;	—	NR 21
Average night-time hourly noise levels;	—	NR 7
Highest daytime hourly noise levels;	---	NR 29
Highest night-time hourly noise levels;	---	NR 18

FIGURE 4 Noise rating curves for internal noise

Appendix A Explanation of Acoustical Terminology

Appendix A Acoustic Terminology

Perception of sound. Sound is a rapid fluctuation in air pressure. The human ear can hear sensations of sound when the fluctuations occur between 20 times a second and 20,000 times a second. This is called the frequency of the sound and is measured in Hertz (Hz). The loudness of the sound depends on the amplitude of fluctuation in the air pressure. The ear has an approximately logarithmic response to the loudness of sound: for example, every doubling or halving in sound pressure gives an apparently equal step increase or decrease. In measuring environmental noise, sound pressure levels are therefore usually quoted in terms of a logarithmic unit known as a decibel (dB). Typically, the quietest sound that can be heard (the threshold of hearing) is 0 dB and the sound becomes painful at 120 dB. The sensitivity and frequency range of the ear varies somewhat from person to person and deteriorates with age and exposure to loud sounds

“A” Weighting. The human ear is not equally sensitive to sounds of different frequencies (i.e. pitch): it tends to be more sensitive in the frequency range of the human voice than at higher or lower frequencies. When measuring sound, compensation for these effects can be made by applying a frequency weighting, usually the so-called “A” weighting, although other weightings are sometimes used for special purposes. To signify that the “A” weighting has been applied, the symbol of dB(A) is often used. However, current practice tends to prefer the weighting letter to be included in the name of the measurement index, e.g. dB(A) L_{eq} and dB L_{Aeq} both refer to the “A” weighting equivalent continuous sound level in decibels.

L_{AeqT} is a unit that also takes into account fluctuations in sound pressure levels. This unit takes into account both steady and impulsive noises and is defined as the steady, continuous sound pressure level which contains the same energy as the actual, fluctuating sound pressure level. It is necessary to state the time period over which the sound is measured, e.g. $L_{Aeq,(12\text{-hour})}$, typical in the case of daytime working and 5-minute for night-time.

L_{A90} is the level of A-weighted sound exceeded for 90% of the measurement period. It is generally used as a measure of the background noise in environment noise standards.

Appendix B Site Photographs



Photos 1 Location 1. Rear façade



Photo 2 Location 2. Side façade facing Animal Welfare



Photo 3 Location 3. Front façade facing Mortimers Lane

Appendix C Results of Noise Measurements

Hourly averages of measurements:

Table C.1	Location 1 on rear façade
Table C.2	Location 2 on side façade
Table C.3	Location 3 on front façade

Period start	LAeq	LAmax	LA90	LA10	16	32	64	Octave Band Centre Frequency Hz							
								125	250	500	1k	2k	4k	8k	16k
18/06/2026 14:00	51.4	64.6	40.3	55		58.2	56.9	57.1	50.7	48.0	46.8	48.9	42.5	36.8	24.6
18/06/2026 15:00	51.2	62.3	41.8	54.8		57.3	57.4	57.2	50.5	47.9	45.6	48.8	42.8	35.6	28.1
18/06/2026 16:00	52.2	59.7	44	55.4		56.7	57.0	57.4	50.8	47.3	46.6	50.0	43.8	35.8	33.7
18/06/2026 17:00	53	65.8	45	56		55.6	55.6	59.4	52.9	48.2	46.3	50.7	44.5	37.0	40.0
18/06/2026 18:00	51.4	60	40.5	55.2		54.3	54.0	54.5	52.1	46.8	43.5	49.3	43.0	35.9	36.4
18/06/2026 19:00	51.2	67.3	38.8	54.9		52.4	53.3	53.6	50.0	47.2	43.0	48.9	42.9	40.3	31.8
18/06/2026 20:00	49.9	58.1	35.7	54.5		49.1	51.6	53.5	48.5	43.8	42.2	48.2	40.9	35.1	24.8
18/06/2026 21:00	47.5	59.8	33.6	52.2		49.2	50.8	51.8	47.7	42.8	39.6	45.8	39.1	24.5	15.8
18/06/2026 22:00	47	61.1	27	51.3		50.8	51.2	52.4	46.3	42.2	39.8	45.4	38.0	22.6	13.6
18/06/2026 23:00	43.7	58.2	26.2	47.6		52.0	51.9	49.6	43.9	37.8	36.0	42.1	35.0	19.6	12.5

Period start	LAeq	LAmax	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
19/06/2026 00:00	39.2	56.6	25.1	37.8		48.3	49.1	46.5	37.0	33.6	31.0	37.5	31.1	16.3	11.9
19/06/2026 01:00	38.8	62.4	24.9	36.9		49.0	52.2	47.2	38.3	35.6	32.3	36.8	30.4	15.3	11.8
19/06/2026 02:00	33.1	56	24.3	29.1		47.4	49.8	44.8	34.7	31.2	25.6	30.9	24.2	12.3	11.7
19/06/2026 03:00	37.1	55	24.6	35.4		47.5	48.1	44.4	35.9	32.6	31.1	34.7	29.6	18.0	12.3
19/06/2026 04:00	45.7	58.1	32.4	50.7		49.3	48.9	48.1	41.2	39.0	36.9	38.1	34.0	42.9	26.5
19/06/2026 05:00	49.9	59.5	40.5	53.8		52.1	50.4	50.1	42.5	40.1	41.0	44.4	39.7	46.2	33.7
19/06/2026 06:00	51.6	60.5	42.9	55.6		57.0	55.5	55.0	48.9	46.3	44.4	48.7	43.0	40.4	42.9
19/06/2026 07:00	54.1	64.5	45.4	57.4		59.0	58.2	57.9	50.7	48.1	46.5	51.4	46.1	40.5	44.7
19/06/2026 08:00	57.2	73.2	46.9	57.9		58.4	60.1	59.9	51.7	49.4	48.7	51.7	45.6	53.2	47.4
19/06/2026 09:00	52.3	60.5	42.3	55.7		57.1	57.6	58.3	50.5	47.8	45.5	49.9	43.8	40.6	35.7
19/06/2026 10:00	51.4	61.9	41.6	55.1		56.7	57.0	56.8	51.6	47.2	45.9	48.9	42.3	38.5	34.3
19/06/2026 11:00	51	60.2	44.3	54.2		57.3	58.5	61.2	52.4	48.1	45.1	47.9	41.4	41.7	30.6
19/06/2026 12:00	50.5	58	41.6	54		55.8	55.8	56.1	49.5	45.9	44.2	48.3	41.9	38.0	31.8
19/06/2026 13:00	51.3	62.4	41	54.8		56.3	56.4	55.8	53.1	47.4	44.7	48.8	42.4	36.5	40.5
19/06/2026 14:00	52.2	61	42.3	55.4		56.5	55.9	56.6	51.1	47.9	45.4	49.9	43.3	40.5	35.5
19/06/2026 15:00	52.8	60.5	45	55.7		58.5	56.6	57.3	50.6	47.0	46.4	50.7	43.8	38.0	40.9
19/06/2026 16:00	54.2	71	45	57.1		56.3	55.6	58.2	53.3	49.6	48.7	52.2	45.1	36.6	36.6
19/06/2026 17:00	53.3	62.4	45.2	56.4		56.6	54.6	55.2	50.2	47.8	46.4	51.3	44.4	39.5	38.0
19/06/2026 18:00	51.9	60.8	39.5	55.8		54.7	52.7	54.6	51.2	45.7	44.3	49.9	43.0	40.3	26.4
19/06/2026 19:00	51.7	67.2	37.6	55.3		54.4	52.0	53.6	51.0	48.4	46.6	49.1	42.3	40.6	26.8
19/06/2026 20:00	49.4	59.7	34.6	54.2		51.6	52.1	52.3	46.5	41.5	41.5	47.8	40.9	34.5	28.0
19/06/2026 21:00	49.4	63.8	33.8	53.8		50.5	50.9	52.1	46.9	43.5	41.9	47.9	40.9	25.1	17.0
19/06/2026 22:00	47.5	59.1	32.6	52.9		51.3	50.1	52.3	49.1	44.4	41.2	45.7	38.3	22.7	13.9
19/06/2026 23:00	43.7	59.5	29.5	47.6		51.2	49.6	50.2	42.1	40.0	36.5	41.9	35.0	19.9	12.9

Period start	LAeq	LAmax	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
20/06/2026 00:00	42.8	60.1	26.7	46		48.5	45.9	46.4	39.3	36.8	34.8	41.1	34.7	20.1	14.4
20/06/2026 01:00	38.8	56.7	22	36.2		48.8	45.2	45.0	38.6	37.1	33.4	36.3	30.5	19.1	15.9
20/06/2026 02:00	35.1	54.9	21.2	27.9		43.5	42.8	41.9	32.7	28.8	27.4	33.2	27.3	14.7	12.1
20/06/2026 03:00	36	58.2	22.2	31.6		45.4	42.4	42.8	34.6	34.4	29.0	34.4	25.9	15.5	14.0
20/06/2026 04:00	43.4	58.9	26.2	48.1		47.1	45.4	45.6	38.4	40.0	35.4	38.6	32.9	38.0	32.9
20/06/2026 05:00	51.1	61.5	38.3	55		49.6	47.7	50.2	41.5	39.6	39.1	42.7	37.8	49.0	32.5
20/06/2026 06:00	48.8	62.3	33.9	53.5		48.7	47.7	49.4	42.1	40.1	41.9	45.8	41.0	40.4	27.5
20/06/2026 07:00	51.7	61.1	42	55.6		50.1	51.7	51.4	46.3	42.5	44.8	49.1	43.5	41.2	40.5
20/06/2026 08:00	55	63.8	45.5	58.6		52.6	53.8	55.9	60.0	47.3	51.0	52.1	47.0	40.3	31.3
20/06/2026 09:00	53.5	61.6	45.7	56.7		51.9	53.6	56.1	54.8	46.0	47.9	50.7	45.1	44.3	30.2
20/06/2026 10:00	54.7	66.8	44.1	58.4		52.9	54.0	57.5	51.6	48.7	50.5	52.6	45.6	35.6	24.2
20/06/2026 11:00	53.1	64.6	43.5	56.3		55.9	54.9	57.6	51.6	48.3	46.3	50.5	44.4	41.9	39.5
20/06/2026 12:00	52.2	60.4	40.4	55.7		53.9	56.6	55.0	49.2	45.8	44.9	50.2	44.1	39.3	29.7
20/06/2026 13:00	53.4	68.4	41.7	56.8		53.2	53.1	55.7	53.7	47.5	49.0	50.5	44.8	40.9	28.6
20/06/2026 14:00	51.9	62.6	40.7	55.5		52.1	51.7	56.0	53.2	47.6	46.8	48.5	42.2	43.8	28.7
20/06/2026 15:00	51.8	62.5	40.6	55.5		52.1	51.8	54.2	51.6	47.5	45.6	49.4	43.1	37.8	38.3
20/06/2026 16:00	52.1	61.6	41.5	55.8		53.1	52.6	54.5	51.7	44.6	46.3	49.5	43.0	42.8	31.7
20/06/2026 17:00	50.8	66.3	38.1	54.6		52.4	52.4	53.0	50.5	46.1	43.5	48.4	42.7	39.6	25.9
20/06/2026 18:00	50.3	66.1	36.3	54.2		50.4	50.2	52.3	52.9	44.9	44.8	47.5	41.9	39.8	28.5
20/06/2026 19:00	49.9	62.1	36.5	54.2		49.4	49.5	55.1	49.2	42.5	41.9	47.8	41.3	38.4	24.9
20/06/2026 20:00	47.7	58.7	32.2	52.8		47.9	49.1	51.0	46.7	42.7	41.0	45.8	38.9	33.6	22.2
20/06/2026 21:00	47.2	60.7	32.2	52		50.5	48.9	50.9	46.2	42.6	40.5	45.3	38.8	26.8	18.9
20/06/2026 22:00	46.1	57.2	30.6	50.7		49.5	49.1	50.3	44.5	42.5	39.5	44.3	37.4	22.2	13.6
20/06/2026 23:00	45.5	66.3	30.1	48.8		49.0	47.3	50.7	50.2	41.0	40.7	43.1	37.1	22.0	14.1

Period start	LAeq	LAmx	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
21/06/2026 00:00	44.1	59.6	29.8	48.8		45.2	46.3	50.4	46.2	41.7	38.6	42.0	35.1	19.6	12.8
21/06/2026 01:00	42.2	64.2	25.4	43		42.9	44.8	44.2	42.5	36.8	34.1	40.4	34.2	20.2	13.7
21/06/2026 02:00	40.1	60.5	22.3	33.1		43.8	52.3	45.8	43.4	43.2	38.1	35.2	27.9	14.2	11.8
21/06/2026 03:00	38.6	59.8	22.7	36.8		45.2	47.3	43.5	35.9	32.7	30.0	37.1	30.4	17.0	12.3
21/06/2026 04:00	46.9	59.2	28.7	53.1		47.1	48.0	44.4	34.6	32.1	32.6	37.3	32.4	45.3	26.9
21/06/2026 05:00	51.8	61.3	38.3	55.6		46.8	47.0	45.7	39.6	39.9	38.8	42.0	37.4	50.0	35.5
21/06/2026 06:00	46.4	59	37	50.2		47.4	47.8	48.2	44.2	40.6	39.5	42.8	37.9	38.8	34.6
21/06/2026 07:00	49.7	62.5	35	53.6		48.3	49.4	50.9	45.5	41.1	45.5	46.9	40.8	37.4	37.4
21/06/2026 08:00	50.9	63.1	38.1	55		51.1	51.5	54.6	50.0	46.7	47.7	47.9	41.8	35.8	30.1
21/06/2026 09:00	50.9	59.7	39.2	55		51.7	52.1	53.5	51.4	46.1	45.3	48.5	42.2	37.8	29.0
21/06/2026 10:00	51.3	63.2	38.7	54.3		52.3	53.5	55.2	49.4	45.2	46.9	49.1	41.8	37.9	25.8
21/06/2026 11:00	49.5	58.1	37.6	53.3		53.0	53.0	55.6	51.2	47.0	43.3	47.1	40.6	35.2	31.5
21/06/2026 12:00	49.9	64	39.4	52.8		52.5	53.4	54.4	51.6	47.4	45.8	47.2	40.7	35.6	25.6
21/06/2026 13:00	48.3	58.3	36.5	52.2		52.3	52.3	54.4	51.3	45.2	41.9	45.7	39.4	35.4	31.0
21/06/2026 14:00	49.7	58.2	39.4	53.3		51.2	53.6	55.1	48.7	44.8	42.0	46.0	39.7	43.4	30.5
21/06/2026 15:00	51.3	61.3	38.6	55.1		50.4	51.7	54.8	50.7	44.7	47.5	48.3	41.4	41.1	26.0
21/06/2026 16:00	50.5	59.9	38.8	54.3		50.1	51.1	53.4	50.6	44.3	43.7	47.9	41.1	41.6	25.1
21/06/2026 17:00	49.9	62.7	37.3	53.6		49.3	50.0	53.1	50.6	44.2	41.8	46.7	40.3	43.1	23.7
21/06/2026 18:00	48.8	58	36.6	52.9		49.6	51.1	53.0	47.6	43.4	41.3	46.6	40.3	37.5	29.8
21/06/2026 19:00	50	61.8	36.1	53.9		48.8	50.1	52.4	48.7	45.3	41.7	46.5	44.2	38.6	30.3
21/06/2026 20:00	49.6	68.7	33	53.5		47.7	49.8	53.2	52.1	42.7	42.1	47.2	39.7	40.9	24.7
21/06/2026 21:00	46.3	58.9	27.8	51		45.9	47.6	52.1	43.6	37.3	38.0	44.9	37.6	28.6	18.4
21/06/2026 22:00	44.1	58	23	48.7		52.4	48.7	48.2	40.2	38.3	36.9	42.4	35.8	20.7	13.3
21/06/2026 23:00	39.7	58.5	20.9	41.4		43.0	44.7	44.0	37.9	33.7	31.8	38.0	31.5	18.1	13.6

Period start	LAeq	LAmix	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
22/06/2026 00:00	37	54.2	20	35.2		46.0	42.5	41.6	32.8	30.7	29.4	35.2	29.6	15.9	13.2
22/06/2026 01:00	38.4	59.8	22.1	36.7		47.8	45.1	42.0	37.1	32.6	30.5	36.8	30.0	18.8	16.7
22/06/2026 02:00	23.2	35.8	20	25.6		44.5	43.8	38.3	30.1	23.8	18.1	18.2	12.1	12.1	12.9
22/06/2026 03:00	39.3	57.7	24	41.7		45.9	46.3	44.1	36.9	31.9	32.3	36.3	29.4	32.6	19.6
22/06/2026 04:00	48.7	58.9	31.8	53.1		48.3	46.3	44.5	35.7	32.9	35.7	38.6	34.4	47.1	31.9
22/06/2026 05:00	50.5	59.6	40.9	54.4		48.9	47.4	46.8	40.0	37.5	38.4	43.9	39.7	47.8	32.6
22/06/2026 06:00	51.9	63.2	43.2	55.2		54.5	52.8	52.5	47.0	43.4	44.2	48.0	43.0	46.1	34.0
22/06/2026 07:00	54.2	68.5	46.5	57.4		57.2	55.9	56.2	49.4	48.1	47.9	50.3	44.9	48.1	34.8
22/06/2026 08:00	55.7	64.3	48.6	59.4		57.0	57.2	57.0	52.4	48.7	52.7	52.7	45.0	46.1	36.8
22/06/2026 09:00	57.1	65.7	47.9	61.1		56.7	55.5	55.1	49.4	46.9	53.4	54.1	44.3	49.8	37.4
22/06/2026 10:00	52.6	64.5	45.3	55.6		57.1	56.0	55.7	50.3	48.7	46.8	48.3	41.8	47.1	35.0
22/06/2026 11:00	52.3	63.8	43.3	55.7		55.4	54.7	54.6	48.5	46.5	44.5	46.6	40.3	48.7	33.0
22/06/2026 12:00	51.9	60.9	44.3	54.9		56.1	55.1	54.8	49.2	46.8	45.1	47.3	40.3	47.3	32.4
22/06/2026 13:00	51.8	64.2	43.3	55.1		56.2	54.4	54.2	49.7	47.5	44.2	46.4	40.1	47.8	33.8
22/06/2026 14:00	51.2	58.2	43	54.2		55.2	54.7	55.2	50.0	47.7	44.6	46.4	39.7	46.3	34.3
22/06/2026 15:00	52.2	58.8	45.6	55		56.6	55.7	55.6	48.9	46.8	45.5	48.4	41.4	46.8	33.1
22/06/2026 16:00	52.5	68.6	45.3	54.9		55.1	54.3	55.0	49.2	48.5	46.8	49.0	42.0	45.4	35.9
22/06/2026 17:00	52.2	63.6	45.5	54.9		56.2	54.0	53.8	50.3	50.3	46.1	49.3	41.9	43.8	28.4
22/06/2026 18:00	52.3	67.1	43.9	55		53.6	52.7	53.5	52.8	48.3	46.4	48.3	41.9	46.4	30.8
22/06/2026 19:00	50.4	63	40.4	53.8		51.7	50.8	51.5	49.0	45.8	44.0	46.7	41.6	43.7	29.4
22/06/2026 20:00	48.7	66.2	36.3	51.6		51.2	50.9	50.5	46.5	46.6	44.6	46.0	39.8	32.7	24.3
22/06/2026 21:00	46.8	61.3	36.4	50.5		55.7	54.9	51.8	48.9	43.7	42.1	44.4	38.1	28.6	26.0
22/06/2026 22:00	45.5	65.2	33.3	48.6		54.6	50.8	50.1	49.4	46.1	39.9	42.5	36.6	28.0	25.4
22/06/2026 23:00	37.7	54.9	24.4	39.4		50.2	48.8	45.0	38.0	33.9	30.8	35.8	29.3	19.0	17.1

Period start	LAeq	LAmix	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
23/06/2026 00:00	34.5	52.5	22.5	32.7		47.0	45.8	45.4	36.6	31.6	27.8	31.8	26.8	15.5	13.2
23/06/2026 01:00	35.6	58.5	23.2	34.8		47.4	46.2	45.2	37.6	32.8	29.7	33.3	27.2	14.7	12.2
23/06/2026 02:00	33.9	56.5	22.6	29.3		47.1	45.2	44.3	35.0	30.3	26.6	31.4	26.7	13.6	12.0
23/06/2026 03:00	35.7	55.3	24	36.4		49.6	47.0	45.4	35.8	31.2	27.1	32.4	28.1	27.0	15.6
23/06/2026 04:00	47.7	60.4	30.5	52.4		54.1	51.0	49.6	41.3	37.9	36.4	39.4	34.1	45.7	31.1
23/06/2026 05:00	51.6	59.3	41.2	54.8		57.3	53.2	51.8	43.7	39.9	39.4	43.2	40.0	49.3	37.1
23/06/2026 06:00	52	64.5	42.7	55.2		56.9	54.4	55.2	48.6	45.3	44.4	48.7	43.5	43.9	41.8
23/06/2026 07:00	53.9	70.6	47.3	56.2		58.0	56.9	57.1	50.9	49.5	49.0	50.8	45.1	44.2	34.5
23/06/2026 08:00	54.1	63.6	46.3	57.3		59.3	57.1	57.4	50.6	48.2	49.5	51.1	44.5	45.1	33.1
23/06/2026 09:00	53.5	61.2	47.8	56.4		59.8	59.9	57.9	50.0	47.8	46.8	49.4	43.4	48.1	34.3

* all noise levels are in dB

Table C.1 Ambient noise results at Location 1 on the rear façade

Period start	LAeq	LAmx	LA90	LA10	16	32	64	Octave Band Centre Frequency Hz							
								125	250	500	1k	2k	4k	8k	16k
18/06/2026 14:00	53.2	64.1	42.8	56.7		59.0	60.3	59.5	47.7	50.8	48.6	50.5	43.5	41.3	31.7
18/06/2026 15:00	52.4	61.8	41.6	56		59.2	61.4	60.4	46.9	49.7	47.3	49.9	43.4	34.7	26.8
18/06/2026 16:00	53.9	62.6	44.7	57.4		58.6	61.2	60.7	47.6	49.6	48.7	51.4	45.3	36.6	30.5
18/06/2026 17:00	53.6	68.7	45.4	56.7		58.7	61.8	64.6	49.6	52.2	48.6	50.7	44.8	37.5	27.3
18/06/2026 18:00	51.3	60.8	40.2	55.3		56.3	57.9	57.6	49.2	49.1	45.1	48.6	42.8	35.9	27.6
18/06/2026 19:00	50.9	71.3	36.6	54.5		54.5	57.5	57.2	52.9	48.9	44.1	47.6	41.9	39.2	29.2
18/06/2026 20:00	48.6	58.8	33.9	53.4		49.6	54.5	54.6	44.5	44.7	42.0	46.4	40.3	28.7	19.7
18/06/2026 21:00	47.5	59.8	32	52.3		49.4	54.1	52.8	42.9	43.9	41.0	45.3	39.2	25.6	16.7
18/06/2026 22:00	46.5	63.6	26.6	50.1		49.9	54.3	55.8	43.7	44.0	41.5	44.0	37.4	23.9	14.9
18/06/2026 23:00	43.8	57.7	24.2	47.7		50.2	53.8	51.5	40.1	39.7	36.6	41.7	35.4	21.0	12.9

Period start	LAeq	LAmax	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
19/06/2026 00:00	38.9	57.7	23.2	40		48.0	51.1	46.1	33.2	33.4	32.0	36.7	30.8	17.0	11.8
19/06/2026 01:00	38.3	61.1	23.2	37		49.1	53.8	47.2	35.0	36.4	33.0	35.4	29.7	16.4	11.6
19/06/2026 02:00	32.7	53.2	22.3	27.9		46.5	51.6	44.7	30.7	28.2	24.6	30.6	24.1	12.9	11.3
19/06/2026 03:00	36.5	55.7	22.9	37.9		46.9	52.5	44.9	32.8	32.5	30.5	33.5	29.4	18.8	12.6
19/06/2026 04:00	42.6	59.9	30.2	45.4		49.3	52.5	49.8	37.3	39.7	38.0	38.8	35.3	28.1	27.7
19/06/2026 05:00	48.2	60.2	36.1	52.4		52.4	53.6	51.8	39.5	41.0	41.3	43.8	39.3	41.9	35.1
19/06/2026 06:00	50.9	62.8	41.9	54.7		57.3	58.7	57.1	46.1	47.2	44.8	47.4	41.7	41.3	40.0
19/06/2026 07:00	53.8	61.8	44.7	57		59.1	61.5	59.8	46.8	48.5	47.0	50.0	44.5	46.9	38.1
19/06/2026 08:00	54.4	64	45.7	57.6		58.4	62.2	62.3	48.2	49.5	50.1	51.4	44.6	43.9	34.8
19/06/2026 09:00	51.4	61.8	41	54.8		57.8	61.3	60.8	45.9	48.6	46.1	48.5	42.6	39.2	30.7
19/06/2026 10:00	50.7	63.3	40.9	54.1		57.3	60.6	59.1	47.9	48.1	46.0	47.1	40.8	40.7	35.9
19/06/2026 11:00	49.9	58.6	40.8	53.4		57.4	60.7	60.5	48.0	48.5	44.1	45.6	40.3	41.8	34.5
19/06/2026 12:00	50.8	61.3	41.8	54.4		63.2	60.9	59.0	45.8	47.4	45.3	47.5	41.9	40.7	32.3
19/06/2026 13:00	50.2	60.5	40.5	54.1		61.6	61.4	58.2	48.2	48.1	44.7	46.9	41.4	38.5	31.9
19/06/2026 14:00	51.8	63.5	42	55.3		59.8	59.9	59.0	47.6	50.2	45.9	48.6	42.8	41.3	32.1
19/06/2026 15:00	52	60.9	42.2	55.7		59.2	60.1	60.4	46.4	48.4	46.3	49.1	43.8	39.4	35.7
19/06/2026 16:00	53.3	66.8	43	56.5		58.7	59.9	61.8	49.7	51.2	48.8	50.6	44.0	37.1	28.6
19/06/2026 17:00	51.7	69.2	41.5	55.1		57.1	58.6	57.7	46.9	49.9	46.5	49.1	43.0	34.0	28.0
19/06/2026 18:00	50	66	36.7	54.1		54.3	56.0	57.1	47.5	48.9	43.6	47.1	41.7	34.9	25.9
19/06/2026 19:00	52	76.4	35	53		52.1	54.7	55.8	46.2	54.6	49.3	47.2	40.7	32.2	23.8
19/06/2026 20:00	46.9	58.6	31.8	51.9		51.8	54.6	55.0	43.1	42.2	39.9	44.6	39.2	28.2	22.9
19/06/2026 21:00	47.4	64	30.6	51.8		49.6	53.6	53.8	43.7	44.1	40.7	45.1	39.2	26.2	20.2
19/06/2026 22:00	45.6	58.2	27.8	51.1		50.4	52.6	52.6	43.3	43.5	39.6	43.2	37.1	23.8	14.3
19/06/2026 23:00	41.6	58.8	25.2	44.9		50.9	51.2	50.9	39.7	38.2	34.8	39.3	33.3	20.5	13.1

Period start	LAeq	LAmax	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
20/06/2026 00:00	40.5	56.2	24	41.9		46.6	47.6	46.6	36.2	38.1	35.1	37.8	32.4	20.3	14.2
20/06/2026 01:00	37	58.7	20.7	35.4		45.9	46.7	47.4	35.4	37.3	32.6	33.2	28.4	20.1	16.1
20/06/2026 02:00	33.4	55.9	19.8	26.1		43.4	46.1	41.5	29.2	28.8	25.8	30.7	26.1	15.2	12.0
20/06/2026 03:00	33.1	55.7	20.4	30.7		43.8	43.9	42.4	32.1	33.8	27.8	29.8	24.1	15.4	12.9
20/06/2026 04:00	40	56.3	24.7	40.3		46.4	48.2	46.0	34.9	39.2	34.8	36.5	32.3	26.8	22.4
20/06/2026 05:00	45.6	62.5	32.4	47.4		49.4	51.7	53.6	38.0	40.5	40.1	42.9	36.8	34.9	25.1
20/06/2026 06:00	48.7	66.1	34.2	52.8		48.8	52.0	51.3	38.9	40.8	43.0	45.9	41.2	36.5	28.8
20/06/2026 07:00	50.7	62.5	40.7	53.8		49.7	55.8	53.4	43.2	44.4	46.1	47.3	42.7	39.9	36.2
20/06/2026 08:00	55.9	66.8	41	60.6		53.5	58.5	58.9	56.1	50.5	53.2	53.3	45.8	37.6	28.7
20/06/2026 09:00	51.3	61.6	42.1	54.8		54.2	58.0	58.1	48.6	47.0	46.7	48.2	42.7	38.9	28.4
20/06/2026 10:00	55.6	66.2	42.2	60.6		54.6	59.5	58.8	48.8	51.5	52.9	52.7	45.1	35.3	26.0
20/06/2026 11:00	51.9	67.8	41.1	54.9		58.2	59.8	60.2	49.3	50.0	47.3	48.9	42.8	33.1	36.7
20/06/2026 12:00	50.9	64.2	40	54.3		56.8	58.6	57.5	46.0	46.9	45.2	48.3	42.6	35.7	28.1
20/06/2026 13:00	52.8	65.5	39.6	56.2		55.1	57.7	57.3	49.5	47.6	50.3	49.7	42.6	34.8	26.2
20/06/2026 14:00	52.3	66.3	39.4	56.1		56.6	56.6	59.4	50.2	50.7	50.2	48.5	42.5	36.6	28.5
20/06/2026 15:00	51.6	63.3	39.6	55.2		54.8	56.3	58.3	47.3	49.6	47.5	48.8	42.6	35.5	30.0
20/06/2026 16:00	52.7	65.4	39.9	56.2		55.6	58.6	57.4	48.4	46.7	48.4	50.2	43.5	38.1	34.5
20/06/2026 17:00	52.1	74.8	35.2	53.6		54.1	56.5	55.9	47.5	54.4	49.4	47.9	41.4	31.3	23.0
20/06/2026 18:00	50.4	67.7	34.8	54.1		52.1	54.8	55.5	49.4	46.7	45.2	46.6	43.5	37.6	29.4
20/06/2026 19:00	48.9	61.6	32.7	53.3		50.8	54.1	56.7	45.4	45.5	43.1	46.0	40.4	36.6	23.8
20/06/2026 20:00	46.8	60.2	30.3	51.8		48.0	53.3	53.2	42.9	43.9	41.2	44.4	38.2	27.6	19.0
20/06/2026 21:00	47.3	58.6	31.5	51.8		49.8	51.8	52.2	41.8	43.1	41.4	45.1	38.9	27.4	16.9
20/06/2026 22:00	47.4	60.1	31	52.1		49.2	52.7	53.2	42.2	43.7	41.6	45.2	38.6	24.3	14.6
20/06/2026 23:00	46	62.7	31.8	50.8		50.0	50.9	51.9	45.8	43.4	40.8	43.5	37.1	23.1	15.0

Period start	LAeq	LAmx	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
21/06/2026 00:00	44.8	59	27.2	48.9		46.6	51.5	53.1	43.6	43.5	40.6	41.9	35.5	21.0	13.1
21/06/2026 01:00	44.2	65.2	23.1	45.9		43.3	48.6	45.8	40.7	40.5	36.4	42.3	35.7	21.8	13.6
21/06/2026 02:00	37.1	55.9	21.5	32.7		44.0	55.9	49.0	40.5	39.0	33.6	32.3	26.0	13.1	11.4
21/06/2026 03:00	40.4	60.9	22.1	38		45.8	47.7	44.7	35.8	34.1	32.5	38.6	31.7	17.4	12.6
21/06/2026 04:00	40.5	58.4	29.8	41.6		48.2	47.9	46.5	32.6	32.7	34.2	37.7	31.6	30.6	26.0
21/06/2026 05:00	47.8	61.3	37.3	51.5		47.5	50.0	50.5	41.4	39.7	40.5	43.8	39.8	41.0	34.5
21/06/2026 06:00	47.4	60	38.7	51		48.0	50.2	49.9	40.3	42.6	40.7	43.4	38.8	40.0	34.1
21/06/2026 07:00	50.8	66.5	34.8	53		49.1	53.2	53.3	41.6	43.1	47.9	48.3	40.3	36.0	30.6
21/06/2026 08:00	52.8	69.5	39.6	55.3		51.9	56.2	56.0	46.1	46.5	49.7	50.2	43.2	36.3	28.7
21/06/2026 09:00	52.9	70.8	40.2	55.1		52.4	56.8	56.3	48.0	47.9	49.8	50.6	42.6	35.3	28.2
21/06/2026 10:00	52.7	66.9	40	54.7		53.3	58.4	57.9	46.0	46.8	48.6	50.8	41.8	35.8	27.4
21/06/2026 11:00	50.2	59.4	38.1	53.7		53.5	57.6	57.5	48.9	47.9	44.7	47.4	40.7	36.7	30.1
21/06/2026 12:00	52	72.7	41	54.6		52.0	57.3	57.1	47.4	50.2	49.5	48.7	41.8	37.6	26.9
21/06/2026 13:00	49.2	59.4	37.3	53		52.3	57.1	57.2	47.8	47.4	43.2	46.6	40.0	33.2	24.2
21/06/2026 14:00	49.6	58.9	39.2	53.3		51.2	58.3	57.6	44.8	46.7	43.8	47.1	40.2	34.1	24.7
21/06/2026 15:00	53.3	64.1	36.8	57.1		51.4	56.4	57.0	46.6	47.7	50.2	51.1	42.2	33.1	26.5
21/06/2026 16:00	51.2	62	39	55.1		52.5	56.5	57.8	46.2	46.9	45.7	49.2	41.9	31.2	24.3
21/06/2026 17:00	49.9	64.7	36.6	53.8		54.0	55.1	55.6	48.6	47.4	43.9	47.4	40.9	32.9	23.7
21/06/2026 18:00	49.7	60.9	35.8	53.9		51.9	55.0	55.5	43.7	44.9	43.8	47.5	41.3	31.2	23.6
21/06/2026 19:00	49.8	66.1	37.1	53.4		50.6	54.3	54.7	46.1	48.5	44.8	47.1	41.1	31.3	24.5
21/06/2026 20:00	49.3	67.6	32.9	53		48.4	53.3	54.9	48.6	46.1	43.9	46.9	40.4	31.3	22.3
21/06/2026 21:00	46.2	59.9	28.9	50.4		46.9	51.4	53.8	39.7	41.3	39.4	44.1	37.3	28.4	19.3
21/06/2026 22:00	44.8	56.2	25.5	49.6		52.7	52.0	50.2	38.5	41.0	38.9	42.6	36.1	22.1	13.8
21/06/2026 23:00	41.5	58.6	23.5	42.9		43.8	49.3	45.5	36.0	37.5	35.5	39.0	34.1	20.4	13.5

Period start	LAeq	LAmix	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
22/06/2026 00:00	39.6	56.1	21.8	36.9		47.4	44.6	44.6	30.7	34.2	32.7	37.3	32.1	17.9	13.0
22/06/2026 01:00	42	61.6	23.9	39		48.8	45.9	44.2	36.6	36.4	34.6	40.1	33.2	21.1	18.3
22/06/2026 02:00	25.7	42.4	21.5	28		44.9	44.4	40.4	28.0	27.4	21.9	20.9	13.8	11.9	12.1
22/06/2026 03:00	40.9	57.4	24.7	43.1		46.7	49.3	46.9	33.7	35.4	35.5	38.1	31.9	30.2	17.5
22/06/2026 04:00	43.2	56.7	32.7	46.1		49.5	49.0	47.5	33.3	36.4	37.6	40.0	33.9	34.4	24.7
22/06/2026 05:00	48.9	60.6	37	53.1		49.5	50.7	49.3	38.1	41.3	41.6	46.2	41.3	37.5	31.0
22/06/2026 06:00	53	62.2	42.4	56.6		55.6	56.3	55.1	43.8	46.3	47.1	50.4	44.5	42.0	31.7
22/06/2026 07:00	57.2	80.2	49	58.6		58.4	60.1	59.3	46.8	53.1	55.5	53.3	47.7	43.6	34.0
22/06/2026 08:00	58.8	69.3	50.5	62.9		57.9	61.2	60.2	50.1	51.4	55.5	56.7	48.1	41.0	31.1
22/06/2026 09:00	59.9	69.6	48.6	64.5		57.8	60.4	58.4	48.1	49.9	55.9	58.4	47.8	43.0	32.8
22/06/2026 10:00	54.8	69.1	46.3	57.3		58.0	60.4	59.5	48.7	51.3	50.3	52.0	45.8	40.3	30.0
22/06/2026 11:00	52.3	61.9	42.8	55.7		56.3	59.2	57.7	45.7	49.3	47.8	49.7	43.0	36.9	27.8
22/06/2026 12:00	52.8	63.6	43.3	56.2		56.7	59.0	57.8	46.3	49.8	48.0	50.1	43.4	39.1	29.8
22/06/2026 13:00	52	63.6	43.4	55.4		56.1	58.5	57.1	46.3	50.4	47.3	49.1	42.8	38.1	30.1
22/06/2026 14:00	52.2	64.4	42.5	55.9		56.2	59.5	59.1	47.3	51.7	48.1	49.3	42.8	36.2	27.7
22/06/2026 15:00	53.9	61.6	46.1	57.2		57.7	61.0	60.3	46.9	50.6	48.9	51.5	44.8	36.8	27.4
22/06/2026 16:00	54.9	69.7	46.3	57.8		57.1	59.2	58.6	47.2	51.1	50.8	52.3	45.8	36.1	27.0
22/06/2026 17:00	54.9	65.8	45.8	58		56.4	57.7	57.5	47.3	52.6	49.5	52.4	45.7	38.4	30.9
22/06/2026 18:00	53.6	69.4	44.2	56.6		54.9	56.3	57.1	49.3	52.3	50.0	50.7	44.3	35.7	25.1
22/06/2026 19:00	51.7	66.7	40.1	54.8		52.2	54.9	55.1	46.1	50.4	48.2	48.6	42.5	33.5	25.2
22/06/2026 20:00	52.1	71.7	38.1	54.8		52.4	56.0	54.1	46.1	50.9	49.6	48.8	42.4	29.9	23.4
22/06/2026 21:00	49.5	60.3	37.9	53.8		55.4	54.4	54.1	47.3	45.6	44.2	47.1	41.2	30.5	26.3
22/06/2026 22:00	47.8	67.9	33.4	50.4		53.7	52.8	52.1	49.9	48.4	41.7	44.4	39.1	29.1	24.4
22/06/2026 23:00	39.9	56.5	25.9	41.7		47.8	52.9	47.1	34.8	35.8	33.5	37.7	31.3	20.2	16.4

Period start	LAeq	LAmaz	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
23/06/2026 00:00	37	55.2	22.9	33.9		47.2	47.5	47.7	34.4	34.6	32.4	34.0	28.6	17.2	12.9
23/06/2026 01:00	38.1	57.9	23.2	34.5		46.9	46.9	47.2	34.5	34.2	33.1	35.7	29.1	16.3	12.0
23/06/2026 02:00	35.4	57.5	22.3	30.7		47.3	45.4	46.5	31.3	31.8	29.7	32.7	27.7	14.8	11.5
23/06/2026 03:00	36.3	55.5	23.4	36.5		49.5	46.9	46.6	32.0	31.6	29.0	33.3	28.7	25.5	13.9
23/06/2026 04:00	44.4	60.3	30.5	46.8		52.3	51.3	51.2	37.6	39.7	39.9	41.9	34.3	32.5	23.4
23/06/2026 05:00	49.1	60.2	38.9	53		54.8	53.7	53.7	39.7	41.6	42.0	45.4	40.5	41.5	35.7
23/06/2026 06:00	53.6	63.6	43.7	57.2		56.7	57.3	57.7	45.1	47.6	47.4	50.4	45.3	44.1	36.0
23/06/2026 07:00	57.4	81.3	48.8	58		59.7	60.7	60.2	49.6	53.2	56.6	53.1	47.9	39.2	32.9
23/06/2026 08:00	56.3	66.5	47.9	59.3		61.2	60.7	60.3	47.8	50.9	52.0	53.8	47.3	41.0	34.9
23/06/2026 09:00	56.1	71.1	48.9	57.7		62.6	70.6	63.6	47.7	50.9	53.7	52.8	46.4	42.6	34.3

* all noise levels are in dB

Table C.2 Ambient noise results; Location 2 side façade facing Animal Welfare

Period start	LAeq	LAmax	LA90	LA10	16	32	64	Octave Band Centre Frequency Hz							
								125	250	500	1k	2k	4k	8k	16k
18/06/2026 14:00	63.9	74	43.7	67.7		62.7	62.0	62.6	54.5	60.7	59.1	61.8	54.5	43.7	38.5
18/06/2026 15:00	64.1	74.9	46.3	68.5		61.5	62.7	62.9	55.5	60.4	59.2	62.1	54.8	43.6	38.5
18/06/2026 16:00	64.7	73.7	47.5	69		61.1	62.4	63.2	55.7	59.8	58.8	62.9	55.7	43.7	41.7
18/06/2026 17:00	65.8	81.6	47.8	69.7		61.0	61.8	66.2	57.5	60.9	61.0	64.0	56.3	43.8	37.7
18/06/2026 18:00	63.6	75.2	42.6	68.4		58.6	58.4	60.1	56.2	58.2	57.4	61.9	54.2	42.3	38.3
18/06/2026 19:00	63.1	83.5	38.8	67.4		57.4	58.2	59.2	64.4	62.0	56.8	60.8	53.4	42.1	36.9
18/06/2026 20:00	61	72.6	35.8	66.9		52.7	55.1	58.1	52.7	54.0	54.0	59.4	52.1	39.4	29.0
18/06/2026 21:00	58.9	73.3	34.1	64.2		51.7	53.9	55.5	51.2	52.4	52.0	57.2	50.1	37.5	26.0
18/06/2026 22:00	57.8	73.8	29.6	62.3		50.8	53.2	57.7	51.4	52.6	51.5	56.0	48.8	36.6	26.2
18/06/2026 23:00	54.4	70.5	28.6	54.3		50.5	52.2	52.4	49.0	48.2	47.3	52.6	46.1	33.4	21.8

Period start	LAeq	LAmaz	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
19/06/2026 00:00	49.6	70.9	27.8	38.4		49.8	50.5	47.2	40.9	42.8	42.4	47.9	41.4	28.9	18.1
19/06/2026 01:00	48.7	73.4	27	34.9		50.1	51.9	48.9	41.2	42.0	40.7	46.6	41.2	28.1	16.8
19/06/2026 02:00	42.7	66.6	27.2	31.7		48.7	50.0	43.9	37.8	37.3	35.6	41.0	34.1	21.8	13.3
19/06/2026 03:00	47.6	70.6	27.3	34.2		49.4	50.9	45.6	40.3	42.2	42.5	45.7	38.4	28.8	19.0
19/06/2026 04:00	52.3	73.3	31.6	44		51.5	52.3	51.4	44.2	47.4	49.1	49.9	42.0	33.0	35.5
19/06/2026 05:00	58.2	73	34.4	59.8		56.5	56.0	55.1	47.9	51.5	52.3	56.3	49.5	38.2	37.2
19/06/2026 06:00	62.4	74.9	38.6	68		60.3	59.9	59.6	52.9	55.7	56.8	60.7	53.5	41.6	38.6
19/06/2026 07:00	65.5	75.1	45.5	69.6		62.6	62.2	62.6	55.3	60.2	59.6	63.7	56.5	45.1	41.4
19/06/2026 08:00	64.9	73.3	47.4	69.3		61.1	62.8	63.4	55.7	60.4	59.5	63.0	55.6	45.7	39.8
19/06/2026 09:00	63.5	74.7	44.8	67.6		60.9	61.9	63.4	55.1	59.3	58.4	61.6	54.1	43.1	39.8
19/06/2026 10:00	61.9	72.8	43.3	66.8		60.3	61.3	61.7	56.3	58.2	57.1	59.9	52.3	41.5	40.2
19/06/2026 11:00	60.9	73.3	45.6	64.9		60.5	61.5	65.1	57.7	59.0	56.8	58.3	51.4	41.4	39.6
19/06/2026 12:00	62.5	76.1	46.6	66.9		61.9	60.9	61.9	54.4	57.8	57.5	60.5	53.3	42.8	39.9
19/06/2026 13:00	62.1	73.9	44.9	66.9		60.9	62.3	60.8	56.0	58.2	56.9	60.1	53.0	42.3	41.6
19/06/2026 14:00	63.7	75.7	45.7	68.1		61.1	61.0	62.3	56.5	60.7	58.5	61.8	54.2	43.1	40.8
19/06/2026 15:00	64.1	74.7	45.6	68.3		62.3	61.8	63.2	55.1	60.0	58.9	62.1	54.7	46.5	39.1
19/06/2026 16:00	65.3	79.5	46.3	68.9		60.5	60.9	64.2	59.1	62.6	60.2	63.3	55.8	45.8	40.2
19/06/2026 17:00	64.5	78.3	44.1	68.7		60.6	59.6	60.6	56.0	61.0	58.8	62.7	55.0	42.8	42.0
19/06/2026 18:00	63.1	76.7	39.6	68.2		57.8	57.3	60.5	56.3	59.5	57.1	61.3	53.6	42.9	39.7
19/06/2026 19:00	63.5	87.2	37.5	67.2		55.7	56.1	59.3	57.3	66.6	59.8	60.2	52.6	41.8	34.8
19/06/2026 20:00	60.1	73.3	35.8	66		55.7	56.4	57.0	51.7	53.3	53.1	58.4	51.2	39.2	37.2
19/06/2026 21:00	60	75.9	34.6	65.2		51.7	53.8	56.0	50.8	53.4	53.1	58.3	51.3	38.5	35.1
19/06/2026 22:00	58	72.1	31.4	63.6		52.5	52.0	54.9	49.6	52.2	51.0	56.4	49.2	36.7	25.8
19/06/2026 23:00	54.6	72.9	29.7	53.2		53.5	52.3	53.0	45.5	48.1	48.0	53.0	45.4	33.1	22.2

Period start	LAeq	LAmax	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
20/06/2026 00:00	53.3	73	26.6	48.1		47.7	48.3	49.7	43.7	46.6	46.4	51.7	44.5	31.9	20.3
20/06/2026 01:00	49.3	71.7	23.8	36.3		47.7	46.5	49.4	42.9	44.7	45.5	46.8	40.6	29.8	22.8
20/06/2026 02:00	46.3	70.1	21.8	28		43.9	46.1	45.0	37.2	40.4	39.3	44.5	38.2	26.2	16.6
20/06/2026 03:00	44.4	68.6	22.4	31.4		44.2	43.1	41.0	35.1	38.1	38.1	42.8	35.6	23.9	19.4
20/06/2026 04:00	50.8	70.4	28	42.6		48.0	47.7	47.6	42.5	45.5	45.6	48.4	42.5	34.1	34.3
20/06/2026 05:00	54.6	76.5	34.4	51.5		52.1	51.9	56.2	46.8	49.5	49.9	52.3	45.7	37.3	33.5
20/06/2026 06:00	56.9	72.7	35.7	58		50.6	51.0	53.7	46.1	49.7	50.2	55.2	48.1	39.3	39.3
20/06/2026 07:00	61.1	72.8	38.6	67		53.4	54.9	55.7	50.3	53.9	54.3	59.4	52.3	40.9	40.5
20/06/2026 08:00	65.3	75.6	44.5	69.9		56.3	59.1	61.7	62.4	61.8	62.6	62.5	57.0	48.6	42.6
20/06/2026 09:00	63.5	74.5	48.2	68		56.0	58.6	61.5	57.1	57.3	59.1	61.4	54.7	44.2	33.5
20/06/2026 10:00	63.6	81.3	44.3	67.4		57.1	59.7	63.2	57.8	61.9	57.8	61.5	54.6	43.7	35.1
20/06/2026 11:00	63.2	72.6	43.5	67.5		59.1	59.8	63.4	55.9	57.6	56.9	61.5	54.3	42.4	36.7
20/06/2026 12:00	63.3	74.4	41.7	67.6		58.8	58.6	60.2	54.4	57.0	56.8	61.7	54.4	41.9	37.3
20/06/2026 13:00	62.5	79.2	43.5	67.1		57.4	58.5	59.6	59.2	57.3	55.9	60.8	53.3	41.7	38.5
20/06/2026 14:00	62.3	80	42.5	66.8		57.5	57.6	63.0	59.9	60.7	57.3	60.0	52.7	42.1	37.9
20/06/2026 15:00	62.8	75	42.3	67.5		57.3	56.9	60.9	54.1	59.3	56.4	61.1	53.7	42.5	37.7
20/06/2026 16:00	62.4	72.3	41.2	67.4		57.2	57.3	59.2	57.2	56.0	55.5	60.8	53.4	41.9	38.5
20/06/2026 17:00	63.1	81.4	37.3	67.7		57.7	57.3	58.7	61.9	60.2	58.3	60.9	53.0	40.8	31.2
20/06/2026 18:00	61.9	76.2	37.3	67.2		56.0	55.7	58.5	54.6	56.6	55.4	60.2	52.9	42.1	34.1
20/06/2026 19:00	61.5	74.8	35.7	66.7		54.2	54.8	61.7	55.2	57.0	55.4	59.6	52.4	41.4	33.7
20/06/2026 20:00	59.1	72.8	33.3	65.2		50.5	53.0	55.6	50.3	52.3	52.1	57.5	50.1	37.6	26.9
20/06/2026 21:00	58.7	73.9	33.7	64.1		52.6	51.4	55.1	50.0	51.6	51.5	57.1	50.1	37.7	26.6
20/06/2026 22:00	57.3	71.6	31.8	63.2		51.2	51.5	55.9	48.3	50.8	50.6	55.6	48.7	36.8	26.3
20/06/2026 23:00	56.8	77.6	31.6	57.9		52.3	50.8	56.0	56.4	53.1	52.3	54.3	48.3	36.6	28.1

Period start	LAeq	LAmaz	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
21/06/2026 00:00	54	69.5	28.1	53.6		47.6	49.9	53.3	47.2	48.8	47.5	52.1	45.6	33.4	22.4
21/06/2026 01:00	53.9	78.1	25	43.5		46.4	50.0	48.4	48.8	51.5	46.9	51.8	45.7	34.6	24.5
21/06/2026 02:00	45.9	67.4	24.4	36.3		47.2	57.6	50.8	47.7	47.0	42.2	42.1	35.7	21.9	13.1
21/06/2026 03:00	48.9	72.4	23.4	34.9		49.3	50.8	47.5	39.7	42.1	41.1	47.1	41.0	29.1	18.5
21/06/2026 04:00	48.6	71.5	28.7	41.3		51.6	50.6	48.5	38.4	40.4	42.3	46.9	39.3	32.1	31.6
21/06/2026 05:00	50.8	71.8	35.1	48.8		50.3	50.3	50.8	41.0	44.0	42.9	48.5	42.6	38.3	37.0
21/06/2026 06:00	55.3	72.6	34.6	53.6		51.9	51.6	51.8	47.4	48.2	48.7	53.3	47.0	37.5	38.8
21/06/2026 07:00	59.5	72.8	34.8	65.5		52.4	53.8	56.6	49.2	53.1	53.2	57.9	50.7	38.9	31.3
21/06/2026 08:00	61.5	80	38.1	66.5		55.4	57.4	59.8	52.7	55.4	55.2	59.8	52.3	41.3	39.1
21/06/2026 09:00	62.4	72.5	40.1	67.6		55.9	57.3	59.1	55.8	56.4	55.9	60.9	52.9	41.3	38.4
21/06/2026 10:00	62.7	75.7	41.2	67		57.5	60.4	60.8	55.3	57.4	56.6	61.1	53.1	42.7	37.8
21/06/2026 11:00	62.8	73.2	39.6	67.7		57.5	58.3	61.8	57.0	58.3	56.6	61.3	52.8	40.8	42.6
21/06/2026 12:00	63.8	83.8	39.9	67.8		55.5	58.2	59.8	56.3	60.6	61.4	61.6	53.3	41.2	33.8
21/06/2026 13:00	62	73	37.2	67.2		57.2	57.8	61.3	54.7	56.7	55.6	60.5	52.0	40.2	34.6
21/06/2026 14:00	62.2	73	41.2	66.9		54.7	59.4	61.3	54.0	58.8	56.3	60.4	52.0	40.7	36.3
21/06/2026 15:00	62	74.2	37.5	67.1		55.0	57.8	61.2	56.3	58.6	56.1	60.2	51.9	40.7	35.0
21/06/2026 16:00	62.5	74.4	39.8	67.4		55.1	57.2	61.1	55.0	57.6	56.2	61.0	52.7	40.6	35.0
21/06/2026 17:00	61.9	76.9	37.3	67.1		55.1	55.8	59.5	59.5	57.4	55.1	60.2	52.3	39.6	33.1
21/06/2026 18:00	61.8	73.8	36.7	67.2		53.9	55.5	58.1	53.5	55.0	55.2	60.3	52.4	40.6	34.2
21/06/2026 19:00	61.1	74.9	36.9	66.5		53.6	54.7	58.0	55.3	57.3	54.3	59.4	51.9	39.8	36.1
21/06/2026 20:00	61.4	83.5	32.7	66.1		51.1	53.8	57.7	60.0	58.0	55.1	59.7	51.6	39.1	29.3
21/06/2026 21:00	57.8	72.8	30.4	62.8		49.8	51.7	58.6	49.2	51.1	50.7	56.3	48.7	36.4	25.2
21/06/2026 22:00	55.2	72	26.3	56.5		57.3	52.5	52.7	44.4	48.6	49.4	53.4	46.6	34.7	24.9
21/06/2026 23:00	50.9	70.6	23.9	40.4		46.5	49.5	49.4	45.7	45.3	44.0	48.9	43.0	32.4	24.3

Period start	LAeq	LAmix	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
22/06/2026 00:00	48.7	67.5	23	33.8		49.2	46.9	46.6	37.7	42.5	41.7	46.9	40.5	28.1	18.1
22/06/2026 01:00	49.9	72.7	24.2	36.4		50.2	48.7	47.2	43.3	44.5	42.7	48.3	40.8	29.0	18.7
22/06/2026 02:00	25.2	34.8	23	26.7		48.3	48.1	42.0	31.9	30.0	20.1	16.8	11.5	11.6	12.1
22/06/2026 03:00	50.1	73.1	24.6	40		50.1	51.8	49.8	42.9	44.4	45.3	48.2	40.8	30.9	20.5
22/06/2026 04:00	51.9	71	28.8	45.9		51.1	51.0	50.2	41.8	45.1	46.9	50.1	42.6	33.4	26.0
22/06/2026 05:00	57.1	72.5	34.6	59		52.5	52.1	52.3	45.7	48.9	49.4	55.2	48.8	43.1	36.6
22/06/2026 06:00	62	75.4	41.5	67.2		58.0	57.8	58.2	51.9	55.2	56.4	60.2	53.1	43.1	36.3
22/06/2026 07:00	64.9	80.8	46.4	68.6		61.6	61.4	62.7	55.6	61.9	59.9	62.7	56.0	47.0	40.6
22/06/2026 08:00	65.3	73.8	48.2	69.4		61.1	62.5	63.2	56.9	60.6	59.8	63.5	55.8	44.8	38.5
22/06/2026 09:00	62.7	72.7	45.4	67.5		60.9	61.6	61.5	53.6	57.9	57.4	61.0	53.1	42.4	34.9
22/06/2026 10:00	62.1	74.2	44.6	66.5		61.3	61.5	62.1	54.6	59.5	57.5	59.9	52.5	42.1	37.4
22/06/2026 11:00	61.6	74.2	41.6	66.7		58.7	60.1	60.9	54.0	58.5	57.1	59.5	51.7	41.5	38.2
22/06/2026 12:00	61.7	73.5	42.5	66		59.8	60.3	60.7	52.9	57.6	56.4	59.7	51.7	44.9	39.1
22/06/2026 13:00	61.3	72.6	41.2	65.9		58.4	58.6	59.5	54.0	58.2	56.4	59.4	51.5	41.6	37.3
22/06/2026 14:00	61.8	73.7	41.7	67.1		58.2	61.3	62.2	55.0	60.3	56.9	59.8	51.6	42.3	38.0
22/06/2026 15:00	63.3	73.9	43.5	68		60.1	61.9	62.6	54.3	59.3	58.2	61.5	53.3	42.4	38.9
22/06/2026 16:00	64.8	84.6	43.8	68.3		59.3	59.9	61.7	55.8	62.3	60.7	62.6	54.5	43.3	38.4
22/06/2026 17:00	64.8	83.5	43	68.6		60.1	59.5	60.4	55.4	64.8	59.4	62.7	54.2	42.1	38.4
22/06/2026 18:00	62.4	76	41.2	67		58.3	57.7	59.4	56.7	57.2	56.4	60.8	52.7	40.8	36.2
22/06/2026 19:00	61.5	79.6	37.3	66.5		54.6	55.9	57.6	53.8	57.9	56.7	59.5	52.0	41.2	37.0
22/06/2026 20:00	60.7	79.3	35.8	65.3		52.8	55.2	57.0	52.3	58.2	56.7	58.3	51.0	40.6	33.0
22/06/2026 21:00	57.8	72	36	63.8		53.1	54.3	54.9	52.2	52.4	51.5	56.2	48.7	37.3	29.6
22/06/2026 22:00	58	81.9	33.7	56.4		54.5	53.0	53.5	63.3	59.1	50.9	54.7	47.8	37.4	29.0
22/06/2026 23:00	49.3	68.5	27.8	39.8		49.6	50.8	48.9	41.5	42.9	42.0	47.8	40.2	28.1	19.9

Period start	LAeq	LAmaz	LA90	LA10	Octave Band Centre Frequency Hz										
					16	32	64	125	250	500	1k	2k	4k	8k	16k
23/06/2026 00:00	46.3	67.1	26.9	32.3		49.7	49.6	49.8	43.4	42.5	39.6	43.9	38.5	29.3	22.9
23/06/2026 01:00	47.7	73.6	27.4	35.2		49.7	49.1	47.9	41.6	42.1	42.2	45.7	39.1	27.8	18.2
23/06/2026 02:00	45.4	70	27.1	29.8		50.0	48.1	47.3	39.1	38.4	38.7	43.4	37.6	25.6	15.9
23/06/2026 03:00	46.3	69	27.9	32.3		51.3	49.2	47.0	39.9	39.7	39.5	44.2	38.7	26.6	15.9
23/06/2026 04:00	52.3	71.1	32.2	45.4		54.0	53.0	52.5	44.7	46.3	48.0	50.3	42.1	36.0	33.8
23/06/2026 05:00	56.9	71.9	40.5	57.2		56.4	55.0	55.5	47.8	49.5	49.6	54.8	48.0	44.0	44.3
23/06/2026 06:00	63	77.2	42	68		59.7	58.3	60.3	53.2	56.3	57.2	61.2	53.7	45.3	42.1
23/06/2026 07:00	65.2	77	47.6	69		62.7	62.8	63.0	56.2	61.4	59.6	63.3	56.1	45.6	40.6

* all noise levels are in dB

Table C.3 Ambient noise results; Location 3 front façade facing Mortimers Lane