



**Park Lane
Charvil
Reading**

Internal Noise Assessment Report

22 May 2026

For
DC Properties Limited
The Homestead
Charvil
Berkshire
RG10 9TR

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SUMMARY

auricl has undertaken internal noise measurements within a static caravan on The Homestead, on Park Lane in Charvil, to assess typical internal ambient noise levels.

The measured internal noise levels have been compared to limits specified by Wokingham Borough Council.

The measured internal levels do not exceed the night-time limit and during the daytime, the limit was measured to be exceeded by 1 dB.

A 1 dB difference in noise level is generally considered to be subjectively imperceptible, therefore this exceedance is concluded to be negligible.

Project Number	15074	Issue Date	22 May 2026
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Document Reference	INA/1/260522	Version	01
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1.0 Introduction

auricl has been commissioned to carry out internal noise measurements within a static caravan on The Homestead, on Park Lane in Charvil, to assess typical internal ambient noise levels.

This report presents a methodology and results of the internal noise measurements undertaken within the dwelling. The results have been compared to limits specified by Wokingham Borough Council.

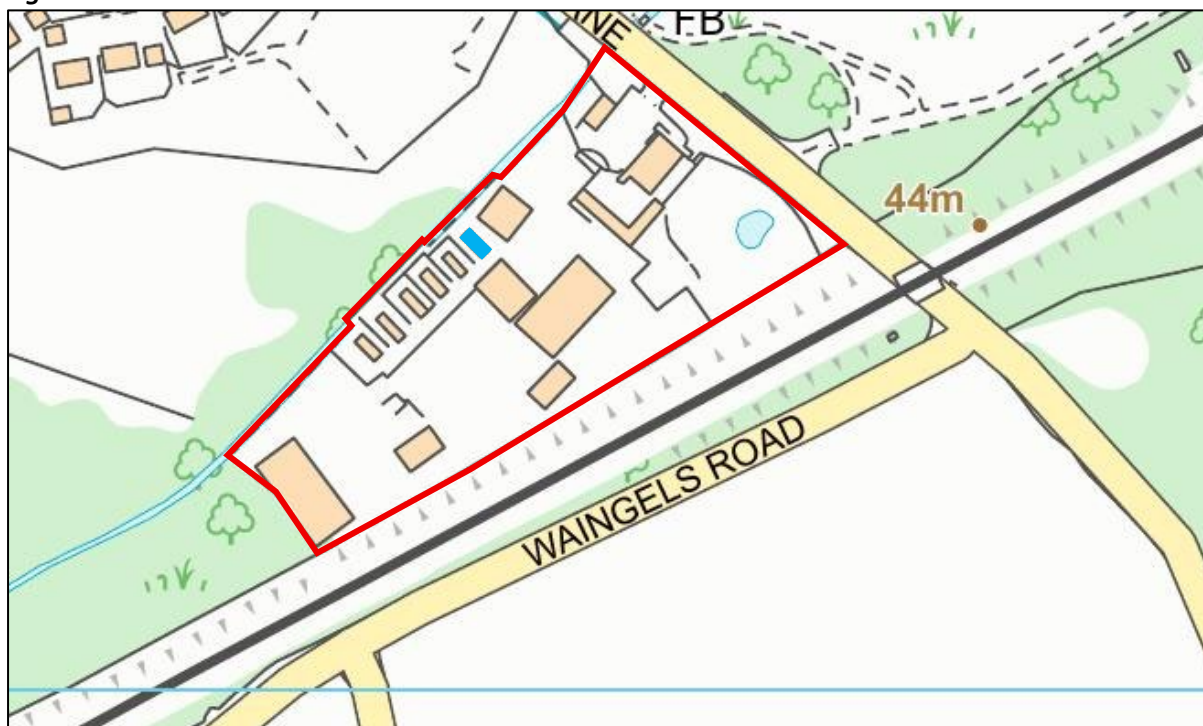
2.0 Description of Site

The caravan is located on The Homestead, off Park Lane in Charvil. The site includes a residential property and commercial units on the eastern side, with caravans located on the western side of the site along the north-western boundary.

The site as a whole is bounded by Park Lane to the north-east and a raised railway line to the south-west.

Figure 2.1 presents the overall site extent, indicated approximately in **red**, with Caravan 1 highlighted in **blue**.

Figure 2.1 Site Plan



3.0 Internal Noise Level Requirements

The Wokingham Borough Council Development Plan Document (Local Plan, July 2013) advises the following in relation to noise affecting new dwellings:

“Internal Noise Levels for Dwellings (including quasi residential uses and residential institutions)

8. For noise sensitive developments, which will mostly consist of dwellings, it is appropriate that internal noise levels are minimised to avoid the risk of adverse effects.

9. Internal ambient noise levels due to steady external noise sources for dwellings shall not exceed 35 dB L_{Aeq} (16 hour) 07:00-23:00 during the daytime and 30 dB L_{Aeq} (8 hour) 23:00-07:00 during the night-time in habitable rooms. If it is necessary to achieve these levels through design and/or insulation measures, they should be identified in the overall scheme and implemented and retained thereafter. If it is not possible to agree the scheme to the satisfaction of the Local Planning Authority, it may be necessary to refuse the application even if the internal levels can be met."

Our measurements and assessment have therefore considered the above.

4.0 Measurement Methodology

An unmanned internal noise survey was undertaken over a 5-day period between Friday 15 May 2026 and Wednesday 20 May 2026. The noise survey period was selected to obtain typical noise levels during daytime and night-time periods during weekdays and a weekend.

The noise monitoring equipment was set up to measure within the main lounge of Caravan 1, with the measurement microphone mounted on a tripod approximately 1.5m above finished floor level in the corner of the room.

The caravan was occupied throughout the noise survey period, therefore intermittent audio recordings were undertaken throughout the survey so that atypical internal activities could be excluded from the measurements. The internal doors were closed open during the measurements and the room was carpeted and furnished.

The equipment used for the noise survey is summarised in Table 4.1 below.

Table 4.1 Description of Equipment

Item	Make & Model	Serial Number
Type 1 automated logging sound level meter	01dB Fusion	12032
Type 1 ½" microphone	GRAS 40CD	292539
Calibrator	01dB CAL31	87267

L_{Aeq} sound pressure levels were measured throughout the noise survey over contiguous 125-millisecond intervals.

The noise monitoring equipment was calibrated before and after the noise survey period. No significant change was found to have occurred.

5.0 Measured Internal Noise Levels

Appendix B presents a time history graph showing the ambient L_{Aeq} sound pressure levels measured throughout the noise survey period (shown as 15-minute intervals).

Table 5.1 summarises the measured internal noise levels, compared to Wokingham Borough Council requirements.

Table 5.1 Internal Noise Levels

Period	Measured Noise Level (dB)	WBC Limit (dB)
Daytime L_{Aeq} (16 hour)	36	35
Night-time L_{Aeq} (8 hour)	30	30

It can be seen that the measured internal level does not exceed the night-time limit. During the daytime, the limit was measured to be exceeded by 1 dB.

A 1 dB difference in noise level is generally considered to be subjectively imperceptible, therefore this exceedance is concluded to be negligible.

Appendix A – Acoustic Terminology

Parameter	Description
Decibel (dB)	A logarithmic scale representing the sound pressure or power level relative to the threshold of hearing (20×10^{-6} Pascals).
Sound Pressure Level (L_p)	The sound pressure level is the sound pressure fluctuation caused by vibrating objects relative to the threshold of hearing.
A-weighting (L_A or dBA)	The sound level in dB with a filter applied to increase certain frequencies and decrease others to correspond with the average human response to sound.
$L_{Aeq,T}$	The A-weighted equivalent continuous noise level over the time period T (typically T= 16 hours for daytime periods, T = 8 hours for night-time periods). This is the sound level that is equivalent to the average energy of noise recorded over a given period.
L_{A90} (15 min)	The noise level exceeded for 90% of the time (also referred to as the background noise level), measured over a 15 minute period

Appendix B – Time History Graph

