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ACOUSTICS PLUS

Internal Noise Measurement Exercise

Frays Court, 71-73 Cowley Road, Uxbridge, UB8 2AE.

Noise Assessment

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Internal Noise Measurement Exercise	
Project Address:	Frays Court 71-73 Cowley Road Uxbridge, UB8 2AE
Project Reference:	104193

Issue/Revision Record			
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	Signature:	Print:	Title:	Date:
Author:		**Andy Dodd**	**Senior Consultant**	**24/08/2021**
Reviewer:		**Phil Huffer**	**Principal Consultant**	**24/08/2021**

1. INTRODUCTION

1.1 Acoustics Plus Ltd (APL) is an independent firm of multi-disciplinary acoustic engineers. APL is engaged by both private and public sector clients. APL is a registered member of The Association of Noise Consultants (ANC) and the author is a corporate member of The Institute of Acoustics (IOA).

1.2 APL has been instructed by the applicant, Dholak Estates, to provide an overview of the internal noise levels within an existing building spaces folowing to the granted permitted development and change of use from offices (Class B1a) to residential units (Class C3).

1.3 It is understood the Local Planning Authority (LPA) require further information on noise levels within the existing building. This assessment supports the discharge of a specific planning condition.

1.4 This report has been prepared by Acoustics Plus Limited (APL) with all reasonable skill, care, and diligence in accordance with generally accepted acoustic consultancy principles and taking account the services and terms agreed between APL and our client.

1.5 The internal noise levels were established giving due consideration to the Association of Noise Consultants Guidelines ‘Noise Measurement in Buildings’.

2. BASELINE SITUATION

2.1 The "site" is known as Frays Court, 71-73 Cowley Road, Uxbridge, UB8 2AE.

2.2 The application reference 13010/APP/2020/1006 has been granted and the proposed development will involve the change of use from offices (Use Class B1a) to residential (Use Class C3) to accommodate 19 residential units (Application for Prior Approval under Schedule 2, Part 3, Class O of the Town and Country Planning (General Permitted Development) (England) Order 2015 (as amended)).

2.3 It is understood that planning condition No.5 relating to the development requires the following:

The development must achieve the following internal noise levels: Indoors 35 dB LAeq,16hrs daytime (07.00 to 23.00hrs);
Inside bedrooms 30 dB LAeq,8hrs night-time (23.00 to 07.00hrs);
Inside bedrooms 45 dB LAFmax to be exceeded no more than 15 times per night-time from sources other than emergency sirens.

Prior to occupation of the first residential unit, a report must be submitted to the Council confirming that these standards (through appropriate acoustic mitigation if necessary) will be met unless otherwise agreed in writing with the Local Planning Authority. These levels (or alternative as agreed in writing with the Local Planning Authority) must be maintained as a minimum within the development throughout its lifetime.

REASON

To ensure that an acceptable level of noise can be maintained within the development in accordance with Policy EM8 of the Hillingdon Local Plan Part 1 -Strategic Policies (November 2012), Policy DMHB 11 of the Hillingdon Local Plan: Part 2 - Development Management Policies (January 2020) and Policy 7.15 of the London Plan (March 2016).

2.4 In order to determine the internal noise level, unattended measurements were obtained over a weekend period (Friday afternoon to Sunday) within the existing building located at the front of the development overlooking Cowley Road.

2.5 The object of the acoustic measurement exercise was to provide information necessary to determine the internal noise level in accordance with the requirements of the local authority. Measurement intervals of 5 minutes were used to best capture individual night time noise events.

3. NOISE OUTLINE

3.1 In order to produce a noise assessment, consideration must be given to the prevailing noise level within the existing building.

3.2 As a worst case scenario, measurements of internal noise were obtained over a weekend period at a location deemed representative of the noise levels experienced within a space closest to the dominant noise source (Cowley Road).

3.3 The particulars of the measurement exercise are recorded below. The weather conditions were considered appropriate to monitor environmental noise.

Date: 13th to 15th August 2021
Start Time: 17:30 hrs
Location: First floor space overlooking Cowley Road.

3.4 Average and maximum background noise levels are shown in Table 1 below with the full level vs time history shown in Diagram 2 (L_{Aeq} and L_{Amax}), together with a histogram of the number of L_{Amax} occurrences in Diagrams 3 & 4.

First floor front	07:00 to 23:00 $L_{Aeq,16hour}$	23:00 to 07:00 $L_{Aeq,8hour}$	No. of L_{Amax}>45dB
13.08.2021	34	29	14
14.08.2021	35	29	11
15.08.2021	34	-	-

Table 1

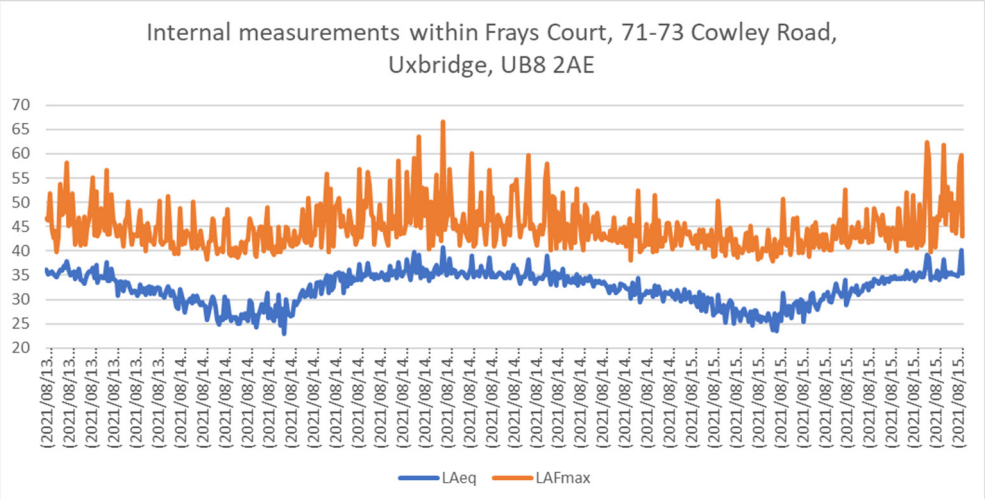


Diagram 2

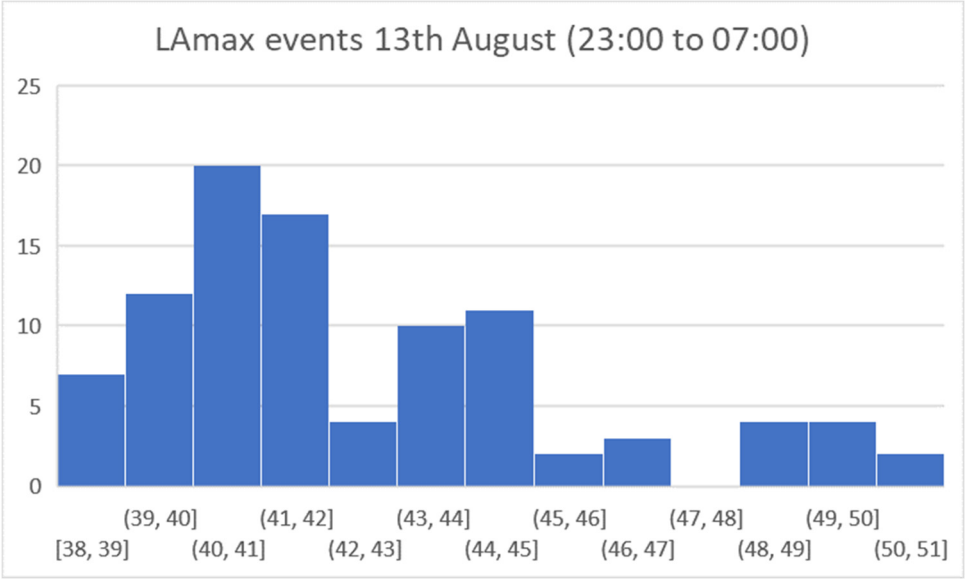


Diagram 3

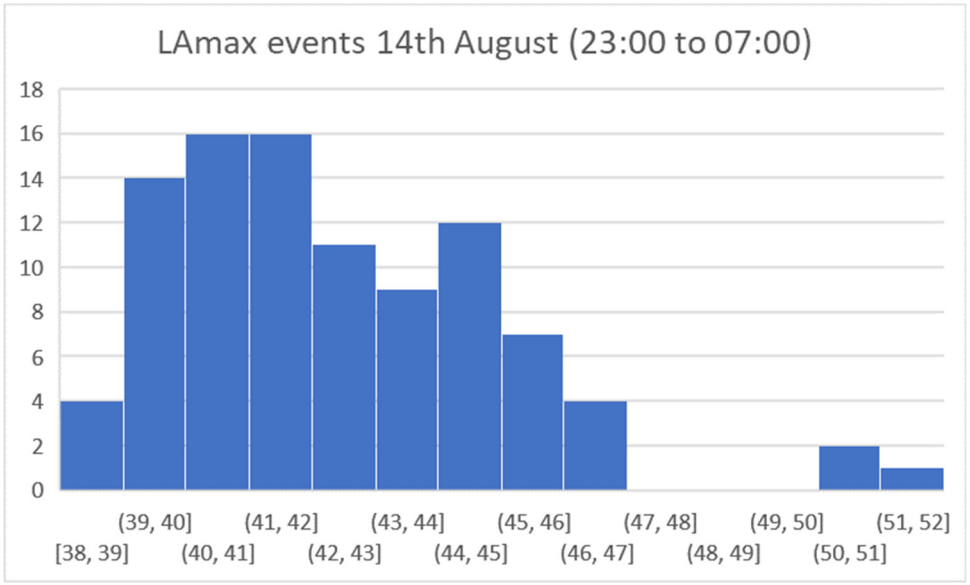


Diagram 4

4. EQUIPMENT

4.1 All background noise measurements were obtained using the following equipment:

- Svantek Svan958 Class 1 Serial No. 45530
- Rion Calibrator Type NC-74 Class 1 Serial No. 00410215

4.2 The relevant equipment carries full and current traceable calibration. The equipment, where necessary, was calibrated prior to and after the measurements were carried out.

5. CONCLUSION

5.1 It can be concluded that the internal noise levels measured within the space assessed meets the requirements as specified in planning condition 5 and as guided by BS8233:2014 / WHO Guidelines for Community Noise.

5.2 It is considered likely that the other rooms within the development featuring the same façade construction and window configuration would also meet the internal noise requirements.

5.3 Rooms located further away or not overlooking Cowley Road would experience lower noise levels than the space assessed.

5.4 The measurements were obtained within Frays Court with the windows closed.