



Ref: P4183/L06/RDC (email attachment)

06 May 2021

To:	Nabeel Mussarat	of:	Advance Property Solutions
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Dear Nabeel,

Wilmslow Road, Fallowfield – Verification of Internal Ambient Noise Levels

Further to the internal ambient noise level measurements undertaken by AEC between Thursday 29 April and Friday 30 April 2021, please find the results and my comments below.

Introduction

The measurements were carried out in order to demonstrate compliance with Planning Condition 6. Planning Condition 6 states.

“Upon completion of the development and before first occupation of the residential units, a verification report will be required to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic consultant's report. The report shall also undertake post completion testing to confirm that the internal noise criteria has been met.”

In order to ensure that these limits were achieved, AEC prepared a noise assessment (ref: P4183/R1a/RDC, dated 7 August 2020) detailing appropriate noise control measures.

Criteria

Manchester City Council has produced 'Planning & Noise – Technical Guidance' (2015) (PNTG) in relation to their requirements for noise assessments to accompany planning applications.

Section 3.6.1.1 of this document states “*Manchester City Council has adopted the following internal limits for residential properties:*

- *Bedroom (night-time – 23.00 – 07.00) 30dBL_{Aeq} (individual noise events should not normally exceed 45dBL_{Amax, F} by more than 15 times);*
- *Living Rooms (daytime – 07.00 – 23.00) 35dBL_{Aeq}.”*

These levels are based on guidance presented in BS8233:2014 'Guidance on sound insulation and noise reduction for buildings' (BS8233), and the ANC document 'Professional Practice Guidance on Planning and Noise - New Residential Development' issued in 2017 (ProPG).

Noise Measurements and Assessment

Noise levels were measured between 1630h on Thursday 29 April and 0700h on Friday 30 April 2021, in Flat 3 of the proposed development. This flat was chosen for measurement as it was the only one finished at the time of the measurements.

As the development has an MVHR system supplying for background ventilation (and does not therefore use a trickle vent system), the measurements were undertaken with the windows closed.

The internal noise level measurements were undertaken in general accordance with the Association of Noise Consultants “*Measurement of Sound Levels in Buildings*” issued in June 2020.

Logging equipment was installed in rooms overlooking Wilmslow Road to the west, and the rear courtyard to the east. The 15-minute ambient noise levels measured during the daytime and night-time in each room are presented in Graphs 1 and 2 at the back of this report.

The one-minute maximum noise levels measured during the night-time period on both facades are presented in Graphs 3 and 4, respectively. The night-time maximum noise level criterion of 45dBL_{Amax,F} is also presented on the graphs for reference purposes.

A summary and a discussion of the measured ambient and maximum noise levels are presented below.

Internal Ambient Noise Levels

The daytime and night-time ambient noise levels measured on each façade are presented in Table 1, below.

Table 1 – Internal Ambient Noise Levels Measured

Façade	Noise Level, dBL _{Aeq, T}	
	Daytime (1630 – 2300h)	Night-time (2300 – 0700h)
Westerly	34	30
Easterly	20	17

Based on the above, the requirements of not exceeding 35dBL_{Aeq,16h} during the daytime, and 30dBL_{Aeq,8h} during the night-time, have been achieved in both locations.

Maximum Noise Levels

During the above periods, 1-minute maximum noise levels were also measured and the results are discussed below.

On the façade facing west, there were 14 exceedances of 45dBL_{AFmax}, during the night-time period, and these are presented in Table 2, at the back of this report, alongside the causes of each maximum event. As can be seen, all but 5 of the incidences were as a result of excessive speeding and revving of vehicles on Wilmslow Road. It should also be noted that 7 of the events exceeded the required limit by only 2dB and therefore, would be considered a marginal situation.

Based on the above, as a significant number of the maximum events on the west façade were either marginally (2dB) above the noise level limit, or were erroneous events, AEC would consider this to be acceptable.

On the façade facing east, there was one exceedance of 45dBL_{AFmax}, during the night-time period and this was due to a car revving. Therefore, the requirements have been achieved.

Summary

Based on this assessment, internal ambient and maximum noise levels have been sufficiently controlled to meet the requirements of Manchester City Council. As a result, Condition 6 of the planning requirements has been achieved.

I trust the above is clear and of assistance at this stage, however, if you have any queries, please give me a call.

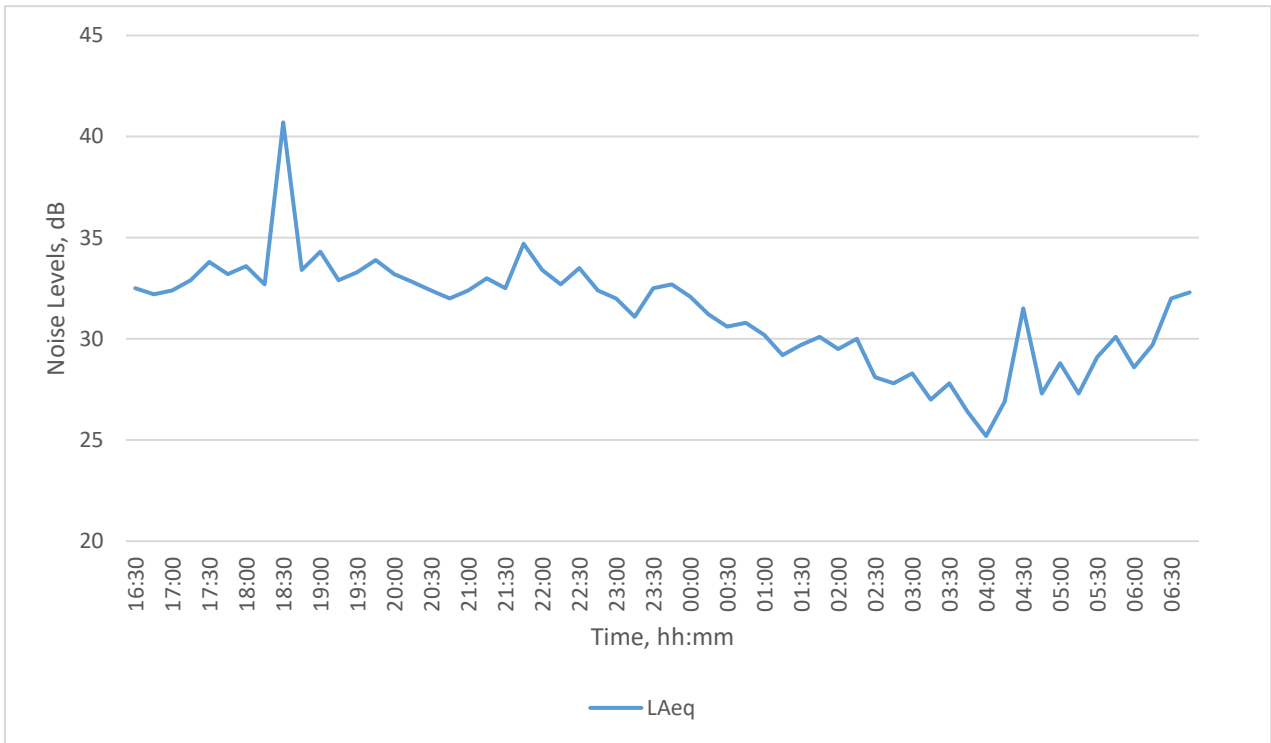
Yours sincerely



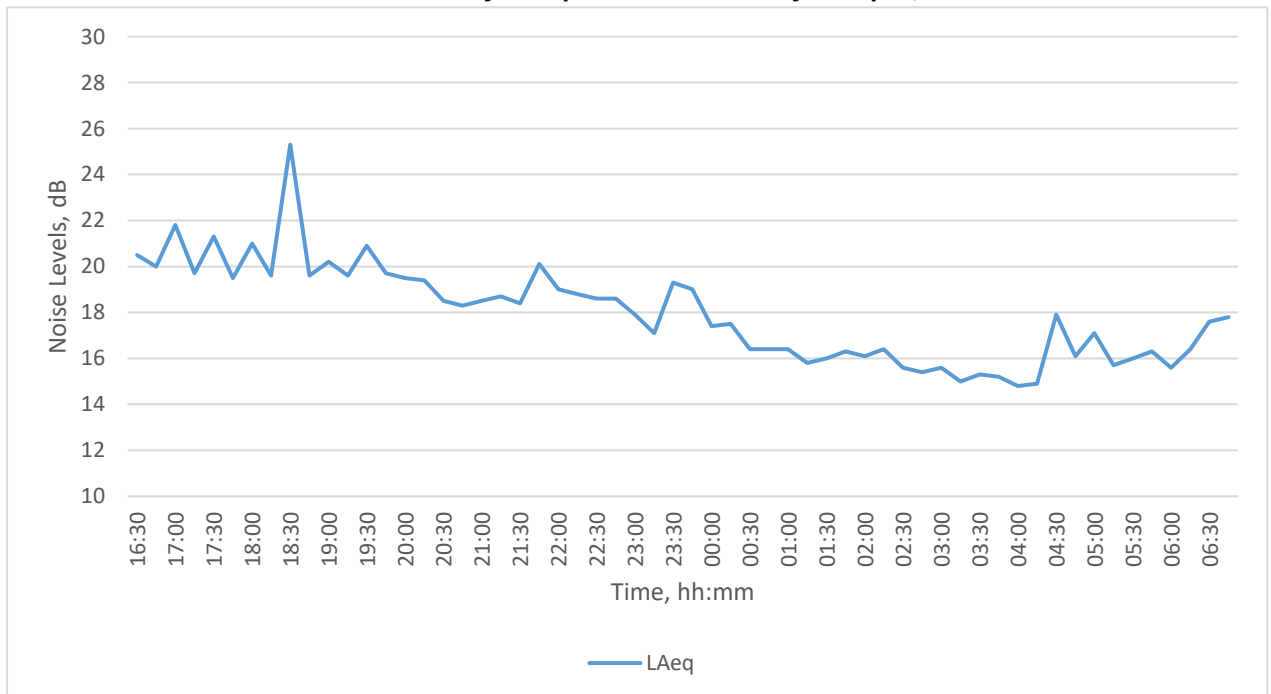
Ross Chamberlain

Checked by: *PSK*

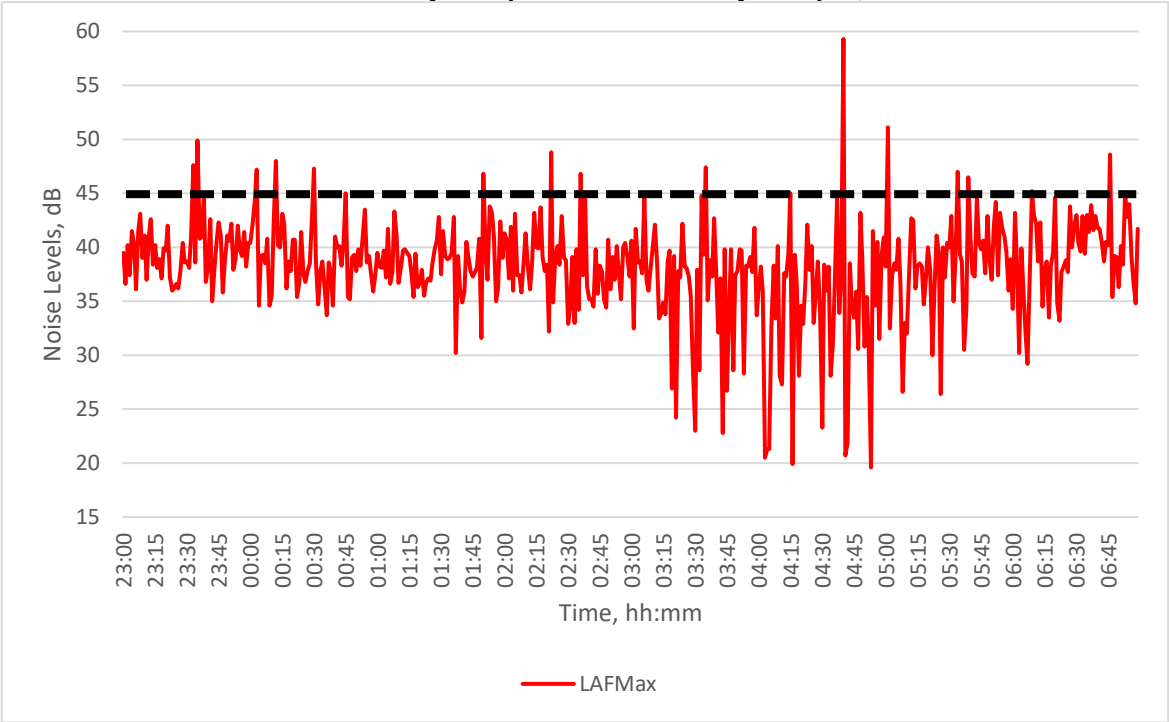
**Graph 1 – Internal Ambient Noise Levels Measured – Westerly Façade
1630h Thursday 29 April to 0700h Friday 30 April, 2021**



**Graph 2 – Internal Ambient Noise Levels Measured – Easterly Façade
1630h Thursday 29 April to 0700h Friday 30 April, 2021**



Graph 3 – Internal Maximum Night-time Noise Levels Measured – Westerly Façade
2300h Thursday 29 April to 0700h Friday 30 April, 2021



Graph 4 – Internal Maximum Night-time Noise Levels Measured – Easterly Façade
2300h Thursday 29 April to 0700h Friday 30 April, 2021

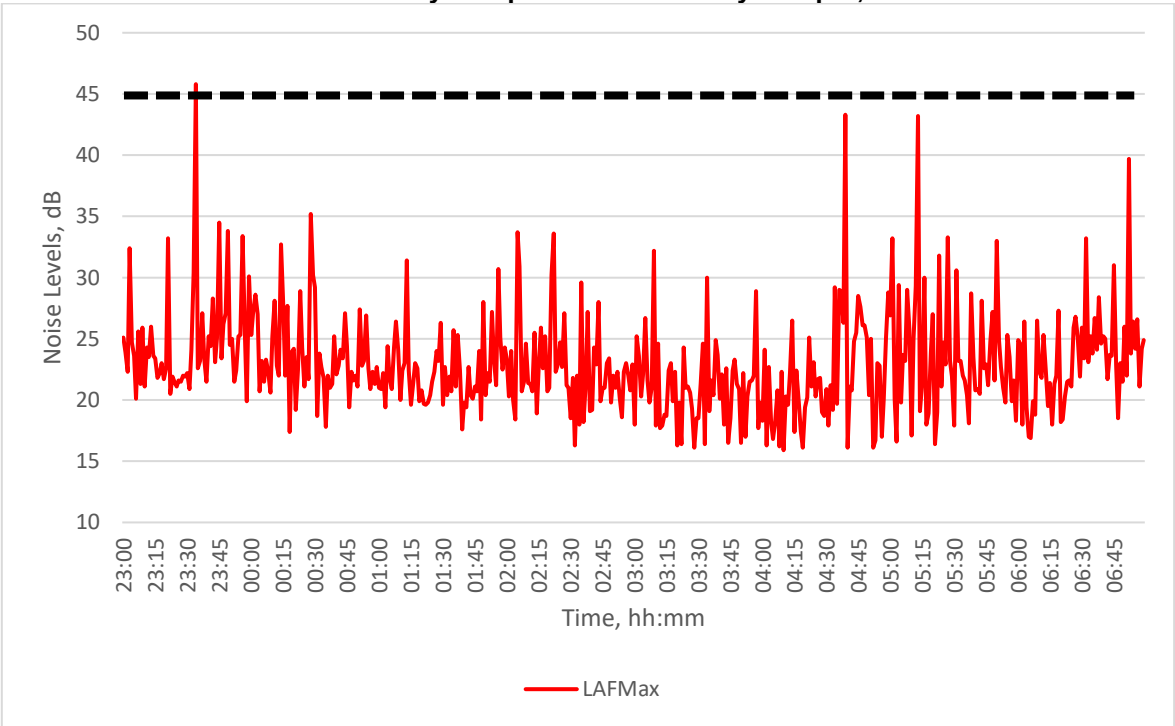


Table 2 – Internal Maximum Noise Levels Measured – Westerly Façade

Period	Maximum Noise Level, dBLAFmax,1min	Source Comments
0440 – 0441	59	Motorbike / Vehicle – Excessive revving / speeding
0501 – 0502	51	Motorbike / Vehicle – Excessive revving / speeding
2335 – 2336	50	HGV Pass By
0222 – 0223	49	Motorbike / Vehicle – Excessive revving / speeding
0646 – 0647	49	HGV Pass By
0012 – 0113	48	Pedestrian shouting
2333 - 2334	48	HGV Pass By
0335 – 0336	47	Motorbike / Vehicle – Excessive revving / speeding
0030 – 0031	47	Motorbike / Vehicle – Excessive revving / speeding
0003 – 0004	47	Motorbike / Vehicle – Excessive revving / speeding
0534 – 0535	47	Motorbike / Vehicle – Excessive revving / speeding
0150 – 0151	47	HGV Pass By
0236 - 0237	47	Motorbike / Vehicle – Excessive revving / speeding
0539 - 0540	47	HGV Pass By

Note: Maximum noise levels are presented in order of magnitude