



Noise Assessment

Retrospective use of barn as mixed use tea room and education/exhibition space, change of use of Agricultural Land to extend existing car park, amendment to existing eating arrangements with increase in covers from 80 to 100 and use of sound amplifying equipment 15 days per annum.

Northney Farm Tea Rooms, St Peter's Road, Hayling Island, PO11 0RX

Mr & Mrs Pike

February 2023

Critchley Architecture And Design (CAAD) Ltd,
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0.0 Contents

- 1.0 Generally
- 2.0 Proposed Use of Sound Amplifying Equipment
- 3.0 Noise Assessment
- 4.0 Mitigation Measures

1.0 Generally

- 1.1 This Noise Assessment forms part of a planning application to Havant Borough Council for 'Retrospective use of barn as mixed use tea room and education/exhibition space, change of use of Agricultural Land to extend existing car park, amendment to existing eating arrangements with increase in covers from 80 to 100 and use of sound amplifying equipment 15 days per annum' at Northney Farm Tea Rooms, Hayling Island, PO11 0RX.
- 1.2 No other purpose is anticipated or accepted. Copyright of this report remains with Critchley Architecture And Design Ltd.
- 1.3 Reference should be made to the planning submission drawings for details of the proposals, re:

17077 -	111	Location and Block Plan
	103C	Existing Site Plan
	120A	Proposed Site Plan

2.0 Proposed Use of Sound Amplifying Equipment

- 2.1 As outlined within the submitted Design and Access Statement, the Applicant is proposing to operate sound amplification and use a monitor to keep sound levels below 95dBA within the barn and 70 decibels taken from outside the barn. The use of sound amplifying equipment will be limited to 15 days per annum.
- 2.2 Northney Farm Tea Rooms is an example of farm diversification, and the use of the barns as tea rooms and education/exhibition has been highly supported by the local community and is seen as a valued asset to Hayling Island. This proposal is part of the ongoing and popular use of the barns by the local community, schools, neighbours and local businesses.

3.0 Noise Assessment

- 3.1 The assessment is undertaken to analyse the impact of any external noise on the neighbouring community. As above, this will be a maximum of 70 decibels when measured outside the barn which is limited to 15 days per annum.
- 3.2 To compare this to a measure that the local community can relate to, 70 decibels is lower than a vacuum cleaner and an alarm clock, which are both measured at 80 decibels. See video link [here](#) for comparison.

- 3.3 The decibel noise chart can be seen below. Where again for comparison, the proposed noise level at 70 decibel is 20db lower than a lawnmower, which does not require the use of Planning Permission and is frequently used within the local area. Therefore, the proposed level of 70 decibel is considered to not cause any harm to neighbouring amenity.

VERY LOUD		
Dangerous over 30 minutes	110	• Concerts (any genre of music) • Car horns • Sporting events
	100	• Snowmobiles • MP3 players (at full volume)
	90	• Lawnmowers • Power tools • Blenders • Hair dryers
Over 85 dB for extended periods can cause permanent hearing loss.		
LOUD		
	80	• Alarm clocks
	70	• Traffic • Vacuums
MODERATE		
	60	• Normal conversation • Dishwashers
	50	• Moderate rainfall
SOFT		
	40	• Quiet library
	30	• Whisper
FAINT		
	20	• Leaves rustling

4.0 Mitigation Measures

- 4.1 The venue manager will monitor the noise levels during the course of the event. They do not allow people outside after 6pm but there will always be a little noise as people use the toilets (which have to be accessed from outside) and when they leave any evening event. This is deemed to be between 30-60 decibels which is between a whisper and normal conversation.
- 4.2 In addition to this, the staff always ask people to leave quietly and there are signs up asking people to respect the neighbours. A sound limiter is proposed which will automatically limit the sound output. This approach is similar to other local venues which the council have supported such as Tournbury Woods, West Town Hotel and our local village hall, Northney Hall, which operates a similar policy. Bedhampton

Community Centre (owned by Havant Borough Council) is operated using a sound limiter to make sure the sound levels stay below 95DbA internally. See specification over:

Sound Limiter and Contact Breaker





Simple to install and operate, this system automatically limits the sound output from pubs and clubs, thus avoiding costly prosecutions and closures. The system comes fitted with a 40A, 4-pole circuit breaker and the microphone unit can be fitted to any standard BS1363 backing box (85mm²).

The unit will continually monitor the sound levels and displays a green LED on the control unit at this time, the LED changes to amber when the level reaches 6dB below threshold and red at 3dB below threshold. At threshold, the contactor will be switched off and the red LED will flash, after the off time has elapsed the contactor will switch on again.

High Intensity LED Display

A remote LED indicator panel which fits directly to any 85mm square BS1363 backbox. The display replicates the display on the main panel with 7 green, 7 amber and 7 red high intensity LEDs.

Optional Volume Control

Automatic volume control to adjust the audio line level to amplification equipment if the output reaches the amber (-6dB) level. 2 Balanced line XLR inputs and outputs.

Audio Setting Levels	70dB to 110dB
Weighting	'A' or 'C' switchable
Amber Trigger	-6dB below threshold
Red Trigger	-3dB below threshold
Power	12V dc
Relay	4-pole 40A, will work as 3 Phase and Neutral, 4 single phase or 2 x single phase live and neutral

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