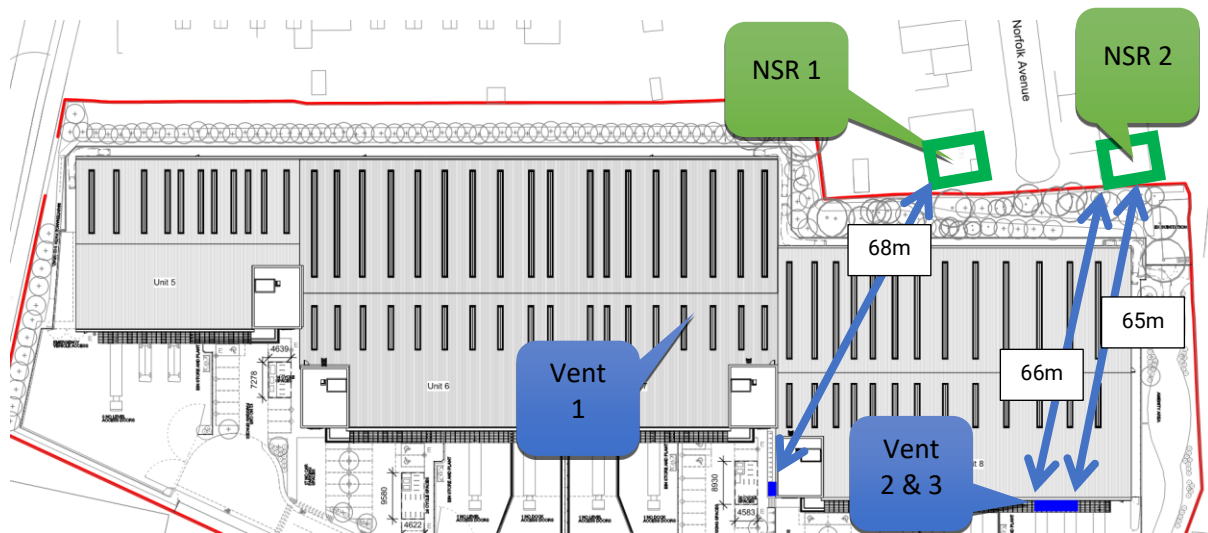


Project: Stock X Vent Noise	Date: 22/09/2023
Project number: 2023-09-20 A0128	Rev: B

1.0 Introduction

Noise Harvest has been commissioned by RCDC Ltd to carry out a desktop assessment of the noise from three louvred vents (shown in blue) at an industrial unit on SEGRO Park Tottenham shown in the image below to the nearest noise sensitive receptors shown in green, which are understood to be 142 Norfolk Ave, London N13 6AJ (NSR 1) and 145 Norfolk Ave, London N13 6AL (NSR 2):



It is understood that Haringey Council have made the following conditions regarding noise following the planning application (ref: HGY/2020/0635):

Condition 25. The design and installation of new items of fixed mechanical plant shall be such that, when in operation, the cumulative noise level $L_{Aeq\ 15\ min}$ arising from the proposed plant, measured or predicted at 1m from the facade of nearest residential premises shall be a rating level of at least 5dB(A) below the background noise level L_{AF90} . The measurement and/or prediction of the noise should be carried out in accordance with the methodology contained within BS4142:2014 +A1:2019. Upon request by the local planning authority a noise report shall be produced by a competent person and shall be submitted to and approved by the local planning authority to demonstrate compliance with the above criteria.

The assessment will be carried out in line with BS 4142:2014, but will target 5 dB below the typical background.



2.0 Background and specific noise

Previous noise surveys have been carried out by Sharps Redmore and detailed in their report (ref: R4-5.3.20 White Hart Lane Tottenham-1818530-MPC dated: 05/03/2020). Table 3.2 of the report declared the following typical background noise levels ($L_{A90,T}$) at the northern boundary of the site, highlighted in the Table below:

Period	Typical measured dB LA90
Daytime (07:00 – 23:00)	44
Night time (23:00 – 07:00)	38

It is understood that the noise at the louvred vents of the plant room is anticipated to be 50 - 55 dB based on an email between Dominic McSherry (Facilitate) and Laura Luckhurst (RCDC Ltd), (dated 18 September 2023). As it is not known if it is a sound power level or sound pressure level a worst case scenario of sound pressure level will be used.

As it is not known if there noise will have characteristics which will incur penalties an assessment will be made after barrier and distance attenuation.

3.0 BS4142 Assessment

A 15 dB reduction is expected from the barrier attenuation from having the louvred vents mounted on the side of the building and the barrier mass of the building attenuating the noise.

Based on the information above the following sound pressure level will result after the barrier effect 40 dBA.

The Table below shows each vent, the distance to the nearest noise sensitive receptors (NSR) and the anticipated amount of attenuation.

Vent	Sound pressure level after barrier attenuation (dBA)	Distance to NSR (metres)	Sound pressure level after distance attenuation (dBA)
NSR 1 (142 Norfolk Ave, London N13 6AJ)			
1	40	68	3
2	40	68	4
3	40	69	4
NSR 2 (145 Norfolk Ave, London N13 6AJ)			
1	40	93	1
2	40	66	3
3	40	65	3

The Table below shows the cumulative sum of all of the vents for each of the NSR's

NRS	Predicted cumulative SPL (dBA)
1	7
2	8



As the predicted noise level is so low at the nearest noise sensitive receptors the subjective impression is that no characteristic of the sound will be heard and therefore no correction will be added.

The table below shows the scenario, the predicted single point receptor, the typical background noise level and the difference between the corrected rating level and background.

Scenario	Receptor	Receptor height	Predicted noise at receptor	BS 4142 correction	Rating level	Background	difference
NSR 1 (142 Norfolk Ave, London N13 6AJ)							
Day	Norfolk Avenue	4.5 m	7	0	7	44	-37
Night	Norfolk Avenue	4.5 m	7	0	7	38	-31
NSR 2 (145 Norfolk Ave, London N13 6AJ)							
Day	Norfolk Avenue	4.5 m	8	0	8	44	-36
Night	Norfolk Avenue	4.5 m	8	0	8	38	-30

As can be seen from the Table above all of the rating levels are well below the daytime and night time background. This would indicate that the noise from the vents would not likely cause an adverse impact. This will also satisfy condition 25 of Haringey Council's requirement.

4.0 Conclusion

Noise Harvest has been commissioned by RCDC Ltd to carry out a desktop assessment of the proposed noise impact from three louvred vents at SEGRO Park Tottenham.

The assessment of the three louvred vents predicted that no adverse impact should result at the nearest noise sensitive receptors for the daytime or night time period and meets the local authorities requirements.