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24th August 2026

To Stephen Geach (English Oak)

**Re: Planning Condition 4 Plant Noise Commissioning Testing Results at 49 Beach Road,
Hayling Island**

This letter has been prepared to summarise the results of a measurement exercise undertaken at 49 Beach Road, Hayling Island.

Planning Condition 4 requirements:

“Following the installation and commissioning of the relocated air conditioning units and prior to their use (other than for testing), a post-completion noise assessment shall be undertaken by a suitably qualified acoustic consultant. The assessment shall:

- 1. Measure the noise emissions from all installed plant operating under normal daytime conditions (07:00–23:00) at the nearest noise-sensitive receptors, including NSR 1 and NSR 2 (as set out in Plant Noise Assessment v1.2 dated 8th December 2025), in accordance with BS 4142:2014+A1:2019.*
- 2. Demonstrate compliance with the approved noise criteria, namely that the rating level of the plant noise does not exceed 5 dB below the lowest representative background sound level at 1 m outside any habitable window of a residential or other noise-sensitive property.*

3. Include details of measurement positions, operating conditions, and any acoustic feature corrections applied.

4. Submit the assessment report to the Local Planning Authority within 14 days of completion of testing. The air conditioning units shall not be used unless and until compliance with the requirement in part 2 is achieved.”

To verify that the above limits for plant noise are met in the final design, a measurement exercise was undertaken at the site.

The AC units are installed on the central flat roof of the building and internal controls were set at maximum fan speed, with minimum temperature to force the units to operate in a representative worst-case manner.

The AC units installed on the rooftop are:

- Mitsubishi MUZ-AP25VG
- Mitsubishi MUZ-AP50VG
- Mitsubishi PUZ-M100VKA2
- Hitachi RAC 50 WPB
- Mitsubishi MUZ-AP60VG
- Hitachi RAC-25-WPB

Measurement of the combined noise level of all 6 units operating simultaneously was taken in the centre of the roof, at approximately 2m from the combined installation location.

Noise emissions from the installation were dominated by noise emissions from the Mitsubishi PUZ-M100VKA2 unit which is the largest unit.

Noise emissions from the installation were subjectively barely audible at the edge of the rooftop.

The measured sound level recorded has been corrected to account for residual noise as required by BS4142 in the table below:

Equipment / Activity	Measured	Residual	Specific	Measured Distance
	dB L _{Aeq}	dB L _{Aeq}	dB L _{Aeq}	(m)
Combined AC installation	52	49	49	2

The lip of the rooftop fully obscures the plant installation from the noise sensitive receivers therefore a -10 dB correction has been applied

To determine noise levels at the window of the identified NSR's, as required by planning condition 4, sound propagation calculations have been undertaken based on the measurement data:

Location	Combined Plant Noise Level @ MP	Distance from Plant to NSR	Distance Correction	Screening Correction	Rating Level at NSR
	dB A	m	dB L _{Aeq}	(dB)	(dB)
NSR 1 – Residential property to the South	49 dB A @ 2m	33m	-24.3	-10	15
NSR 2 – Residential property within care home	49 dB A @ 2m	13m	-16.3	-10	23
NSR 3 – Residential property to the North	49 dB A @ 2m	24m	-21.6	-10	17

A comparison of the Rating Level at each NSR with the background noise level recorded during the planning process for the installation has been completed below:

Location	Rating Level	Background Noise Level	Difference	Compliance with PC4 requirements
	dB	dB L _{A90}	dB L _{Aeq}	
NSR 1 – Residential property to the South	15	32	-17	Yes
NSR 2 – Residential property within care home	23	32	-9	Yes
NSR 3 – Residential property to the North	17	32	-15	Yes

The level of noise emitted by the AC units complies with the requirements of Planning Condition 4. We recommend that Planning Condition 4 should be discharged.

Yours sincerely,



Jake Willmott MSc M.I.O.A
Senior Acoustic Consultant
Sound Planning Ltd

APPENDIX 1

Photographs



Plant noise measurement location