

12 March 2021

Enquiries: Brandon Notaras

Project No: PL807061

Sirius Development Pty Ltd

52 Victoria Street

PADDINGTON NSW 2021

c/- John Green

Attention: John Green

Dear John

**RE: Sirius Development
Amended Noise & Vibration Impact Assessment for SSDA**

A noise and vibration impact assessment has been prepared by Stantec Australia dated 11/03/2021 (ref. AC-RE-SSDA_002) to accompany the State Significant Development Application for the proposed development located at 2-60 Cumberland St, The Rocks. This noise and vibration impact assessment has been prepared to alongside Noise Impact Assessment prepared by Acoustic Logic dated 27/10/2020 (ref. 20191508.1/2710A/R6/WY), with the following differences:

1. Pool plant and equipment noise emissions have been assessed to surrounding noise-sensitive receivers (including 88 Cumberland St) and are in-line with the responses to submissions provided to date.
2. In addition to the noise monitoring conducted in the Acoustic Logic report, additional noise monitoring has been conducted to quantify traffic noise impacts from Bradfield Highway and the Cahill Expressway. The noise monitoring by Acoustic Logic has also been used in this amended noise and vibration impact assessment.
3. Amendments to the acoustic ratings assigned for the glazed façade elements have been made, based on the additional detailed noise monitoring combined with a detailed SoundPLAN model prepared for the site.

The reason the noise and vibration impact assessment has been updated is because:

1. The applicant wanted to consolidate the additional noise assessments conducted as a result of the responses to submissions (pool plant and equipment noise emissions assessments) to ensure consistency of documentation for the SSDA.
2. Stantec conducted further noise monitoring of the Bradfield Highway and the Cahill Expressway over the period of a day (in accordance with DPIE's Development Near Rail Corridors and Busy Roads – Interim Guideline) to accurately quantify the $L_{Aeq,15h}$ and $L_{Aeq,9h}$.
3. Further rationalisation of façade elements with detailed SoundPLAN modelling was required to accurately quantify the noise emissions on the façade. The results of the noise modelling showed that a range of acoustic ratings were required for glazed façade elements, between R_w 32 and R_w 40.

Yours sincerely

Stantec Australia Pty Ltd**Brandon Notaras**
Principal – Acoustics, Noise & Vibration