

20181264.3/1009A/R1/MB

22/07/2020

Hansen Yuncken Pty Ltd  
Suite 12/125 Bull Street  
NEWCASTLE NSW 2300

Attn: Talbot Kerrigan

**Inner Sydney High School, Surry Hills - External Mechanical Noise Testing**

Acoustic Logic has been engaged to conduct external noise measurements of the installed mechanical plant servicing Inner Sydney High School, Surry Hills Building 2 & 3. This letter presents the testing results and compliance with DA condition E4 which is detailed below:

*"The Applicant must undertake short term noise monitoring in accordance with the Noise Policy for Industry here valid data is collected following the commencement of use of each stage of the development. The monitoring program must be carried out by an appropriately qualified person and a monitoring report must be submitted to the Secretary within two months of commencement use of each stage of the development to verify that operational noise levels do not exceed the recommended noise levels for mechanical plant identified in Department of Education , Assessment of Operational Noise Related to Noise Emissions from Mechanical Plant, prepared by Acoustic Studio, dated 25 September 2017. Should the noise monitoring program identify any exceedance of the recommended noise levels referred to above, the Applicant is required to implement appropriate noise attenuation measures so that operational noise levels do not exceed the recommended noise levels or provide attenuation measures at the affected noise sensitive receivers."*

An external short term mechanical noise measurement was conducted between 5:00pm to 6:00pm on the 14<sup>th</sup> of April 2020. The measurement was conducted using a Norsonics Type 140 precision sound level analyser, set to A-weighted fast response. The precision sound level analyser was calibrated before and after the measurements using a Norsonics 1251 sound level calibrator. No significant drift was recorded. Detailed site map can be seen below in Figure 1.

---

**SYDNEY**  
9 Sarah St  
MASCOT NSW 2020  
(02) 8339 8000ABN 11 068 954 343  
[www.acousticlogic.com.au](http://www.acousticlogic.com.au)

The information in this document is the property of Acoustic Logic Consultancy Pty Ltd 11 068 954 343 and shall be returned on demand. It is issued on the condition that, except with our written permission, it must not be reproduced, copied or communicated to any other party nor be used for any purpose other than that stated in particular enquiry, order or contract with which it is issued.



**Figure 1 - Site Map**



All outdoor condenser units detailed in the location above were fully operational for the duration of the testing period. As the plant noise was inaudible across the road along the nearest residential receiver. External mechanical noise measurements were conducted at a distance of 5m from external condenser units. It was noticed that the noise at this location is dominated by plant from the project site. The measured noise levels were then used to predict to the residential building across road (multi storey with openable windows overlooking the project site). The measurement results and predicted noise levels are detailed below.

| Mechanical Equipment                   | Measured Noise Level at 5m<br>dB(A) $L_{eq}$ | Predicted Noise Level<br>dB(A) $L_{eq}$                         | INP Project Specific Criteria (Day)<br>dB(A) $L_{eq}$ | INP Project Specific Criteria (Night)<br>dB(A) $L_{eq}$ | Compliance |
|--|--|---|---|---|------------|
| Condenser Units were fully Operational | 54   | 42<br>To the western façade of the nearest residential receiver | 58  | 48  | Yes        |

Short term noise measurements of the installed condensers were conducted during the day time period. During the night time period, the school will not be operating and therefore it is expected that the noise emissions from the condenser units will significantly decrease as these will be operating at a reduced capacity. Also, it is to be noted that noise measurements of the condensers during the day time achieve compliance with the night time noise emissions criteria.

Based on the measurements conducted and the results detailed above, Acoustic Logic can confirm that the external noise emissions from mechanical plant servicing Inner Sydney High School, Surry Hills Building 2 & 3 comply with DA condition E4.

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the end.

Acoustic Logic Consultancy Pty Ltd  
Myck Bambalan