

24 August 2020

WM Project Number: 18238
Our Ref: 18248 SSDA Mod BC4.docx
Email: jessica.zhang@ctpg.com.au

Jessica Zhang
Meriden School
c/ Carmichael Tompkins Property Group
79 Myrtle Street
CHIPPENDALE NSW 2008 AUSTRALIA

Dear Jessica

Re: MERIDEN CENTRE FOR MUSIC AND DRAMA - SSDA 9692 Modification - Acoustic Impacts.

An SSDA modification is proposed for the above project to :

1. Landscape design changes to the west of the Centre for Music and Drama (CMD) building as the result of retaining the Senior School staff common building located between the CMD and the western boundary.
2. Increase the Senior School student capacity by 130 senior students. Student capacity within Junior and Prep Schools remain unchanged.
3. Seek for an alternative Green Star certification process for the CMD and Administration and Student Centre at the Lingwood Prep School. In addition, to amend to 4 start Green Star rating for both buildings, which reflect Best Practice.
4. Housekeeping amendment to Condition C10.

Murray has reviewed the potential for adverse noise impact associated with the increase in student numbers at nearby residences on Margaret Street to the west.

Noise from Activities in Outdoor Play Area

Noise from existing activities in the outdoor play area forms part of the existing noise environment at surrounding receivers to the west of the Senior School campus. In addition school activities noise is not subject to the criteria contained in the NSW Noise Policy for Industry. Therefore it is reasonable to determine the potential for any impact at residences based on the relative increase in existing play noise levels that may occur as a result of the proposed increase in student numbers. For example, should the increase be small then the impacts can be considered minor, conversely should the increase be larger and noticeable then further detailed assessment is warranted.

An increase in overall noise levels as a result of increased student numbers in existing play areas can be calculated simply by the formula of $10 \times \log(\text{Future Numbers} / \text{Existing Numbers})$. This equates to a theoretical increase in existing play noise levels by up to 0.6 dBA.

As a way of describing this increase in subjective terms the following table represents the perception of relative noise increases.

Relative Increase - dBA	Comment
0-1	Not noticeable
1.5-2	Barely noticeable
2.5-3.5	Noticeable
4 - 5	Clearly noticeable

Therefore it can be concluded that the increase in play area noise levels will be indistinguishable at surrounding receivers. That is the noise levels will be "Not noticeable" when compared to existing play noise levels.

Therefore, based on these findings, further detailed assessment is not warranted as no acoustic impact is predicted.

Figure 1 show the existing play areas of the Senior school and surrounding environs.

Figure 1 **Senior School Site**



Noise Emissions from the CMD Building

It is noted that whilst there is proposed increase in student numbers associated with the senior school there will be no increase in occupancy or activities in the CMD building and, as such, the findings of the original application remain unchanged, that is operation of the CMD will comply with site specific noise criteria .

Construction Noise

In the case of construction noise there will be no additional construction activities and therefore no change in noise levels to that which was presented in the original assessment.

I trust this information is of assistance.

Yours faithfully

WILKINSON MURRAY

A handwritten signature in cursive script, appearing to read 'Brian Clarke'.

Brian Clarke
Senior Associate