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Project 4533
15 May 2020

Mahady Management

Attention: Mr Terry Mahady
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Dear Tim

KRB SSDA: Acoustic Report– Early Learning Centre

I am the author of the Construction and Operational Noise Report dated 10 June 2020 in regard to a SSDA for Kincoppal Rose Bay School.

The proposed expansion of the Early Learning Centre, which forms part of this SSDA, is located adjacent the existing Early Learning Centre. It is noted that the proposed expanded ELC facility is located approximately 55 m from the nearest adjoining residential boundary to the North East of the ELC. The facility is screened from the nearest adjoining residential boundary by the existing ELC building.

As such noise emissions from the ELC were considered acoustically “insignificant” and not warranting a detailed assessment of this particular facility.

However it is noted that Woollahra Council has stated the following:

Acoustic Report – ‘Construction and Operational Noise Report’: prepared by Wilkinson Murray (Document Reference No. 20187 Version A dated 10 June 2020)

*“Whilst Council’s Environmental Health Services consider that the resultant noise from the expansion of the Early Learning Centre and associated outdoor play areas will not adversely impact upon the closest residential receivers, it is appropriate for the **acoustic report to reference and demonstrate compliance with the noise criterion specified in the ‘Association of Australasian Acoustical Consultants Technical Guideline for Childcare Centre Noise Assessment, Version 3 September 2020’.**”*

Based on the above guideline, noise from the ELC should not exceed the daytime background noise level by more than 10 dBA. This equates to a criterion of 53 dBA at the Northern Boundary of the site.

We are advised that following maximum number of children associated with the facility is:

- | | |
|---------------------------|----|
| • Children - 0 to 2 years | 0 |
| • Children - 2 to 3 years | 34 |
| • Children - 3 to 5 years | 34 |

The following sound power levels are recommended for children at play in outdoor areas of a childcare facility.

Table 1– Effective Sound Power Levels ($L_{Aeq, 15min}$) for Groups of 10 Children Playing

Number and Age of Children	Sound Power Levels [dB] at Octave Band Centre Frequencies [Hz]								
	dBA	63	125	250	500	1000	2000	4000	8000
10 Children - 0 to 2 years	78	54	60	66	72	74	71	67	64
10 Children - 2 to 3 years	85	61	67	73	79	81	78	74	70
10 Children - 3 to 5 years	87	64	70	75	81	83	80	76	72

Noise predictions of child-play (worst case) at the nearest residence to the north of the site have been conducted based as follows:

- Noise level of 64 children on play area 87 (2 to 3 years) + 5 (correction for 32) = 92 dBA
- Distance attenuation at 100 m 43 dBA
- Barrier attenuation (4 storey building) 10 dBA
- Resultant Noise Level at residences **34 dBA**

Therefore, it is concluded the noise generated from the new Early Learning Centre expansion complies with the Sept 2020 AAAC acoustic standard and site-specific noise criteria derived from this standard.

We trust this meets with your immediate requirements. Should you require any further information, please do not hesitate to contact us.

Kind Regards

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Brian Clarke

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