

18 May 2020

To: **Whom It May Concern**

Re: **Structural Adequacy Report**
Existing Retaining Wall at 79 Lorikeet Grove, Warriewood

NITMA Consulting Engineers has been engaged to carry out inspection and assessment of the structural adequacy of the existing retaining wall in vicinity of the proposed swimming pool at the above-mentioned property (Refer to Landscape Plan by Jamie King, project no. 1832, issue A, dated 13/3/2020). A site inspection was conducted on 13 May 2020 for this purpose. A photo taken during the inspection is shown in Appendix.

Our inspection found that the existing retaining wall is about 1.1m from the proposed swimming pool. Our assessment, with reference to the geotechnical report by AW Geotechnics dated 1/4/2019, indicates that the excavation works near the deep end (1.4m deep) of the proposed swimming pool would encroach the zone of influence of the retaining wall footing. In order to avoid adverse impacts on the strength and integrity of the retaining wall, it is required that underpinning be carried out to the footing of the retaining wall near the deep end of the swimming pool. Full details of the underpinning work shall be prepared by a qualified structural engineer prior to the issue of the construction certificate.

It is our opinion that with appropriate underpinning, the proposed excavation and construction of the swimming pool can be carried out safely. The undersigned has no objection in supporting the proposal as long as due diligence is exercised to maintain the strength and integrity of the existing retaining wall.

Should you require any further information, please contact us.



Quoc Huy Nguyen

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APPENDIX



Photo 1: Photo shows excavation works to expose the part of the footing of the existing wall for full engineering analysis at 79 Lorikeet Grove, Warriewood