



# Jack Hodgson Consultants Pty Limited

CONSULTING CIVIL, GEOTECHNICAL AND STRUCTURAL ENGINEERS

ABN: 94 053 405 011

MN 28051A

2<sup>nd</sup> March, 2018.

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The General Manager  
Northern Beaches Council  
Pittwater Area  
PO Box 882  
**MONA VALE NSW 1660**

Dear Sir,

**190 BARRENJOEY ROAD, NEWPORT**  
Development Application No: N0106/2012

We have examined the amended architectural plans prepared by GV Architecture, Job No: 1511 Dwg No: S96-0.0, S96-03.1, S96-3.2 dated 1<sup>st</sup> March, 2018.

Jack Hodgson Consultants Pty Ltd prepared a Risk Management Report for the subject address "Risk Analysis & Management for Proposed Landscaping at 190 Barrenjoey Road, Newport" Reference MN 28051, dated 3<sup>rd</sup> March, 2012. Architectural plans were prepared by Paul Scrivener numbered 12/164/DA1 (Issue B) and dated 22/02/2012.

The original Risk Assessment accounted for an excavation of approximately 1.5m. The new proposed works will likely require several cuts with a maximum cut of approximately 3.0m. The cuts will also be over a greater distance across the property than previously proposed. As such the following updated **Section 10** Risk Assessment paragraphs are supplied as an addition to supplement **10.2.1** and **10.2.2** in the original report.

**10.2.3** All excavation recommendations as outlined in **Section 10** should be read in conjunction with Safe Work Australia's 'Excavation Work – Code of Practice', published March, 2015.

**10.2.4** Underpinning of existing structures may be required where excavations are undertaken in close proximity to existing foundations. If the structures in the zone of influence are not taken to rock and are at a higher elevation than the footings for the proposed works, they are to be underpinned to the base of the proposed cut or rock, whichever is encountered first. Details of any temporary or permanent support are to be outlined and approved by the structural engineer before any significant excavation or demolition occurs.

**10.2.5** The proposed excavations are expected to be through stiff to hard clays into shale bedrock. At cut depths of up to 3.0m, temporary shoring may be necessary depending on length of time before permanent support is installed. All shoring is to be discussed with the Geotechnical Engineer before excavation starts.





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**10.2.6** All addition footings for the deck and walls will need to be taken 300mm into weathered rock. The design ultimate bearing pressures are 600 kPa for pad footings or shallow piers.

The proposed changes are as listed below:

1. The first retaining wall down the slope from the pool is proposed to be to a depth of approximately RL 38.800 some 2.80m below existing ground level.
2. The second retaining wall down the slope is proposed to require a wall height of approximately 2.0m below RL 39.000. This will require a cut of approximately 1.2m below existing ground level with a secondary wall to create an enclosed area of fill.
3. A third retaining wall will create a level area for a deck and require a cut of approximately 1.1m below existing ground level.

The proposed changes to the development at the subject address as listed above will have an Acceptable Risk Level in accordance with the 2009 Geotechnical Risk Management Policy for Northern Beaches Council - Pittwater as long as the conditions outlined in Section 10 of the original geotechnical report dated 8<sup>th</sup> March, 2012 and the additional conditions outlined in this letter are followed.

**JACK HODGSON CONSULTANTS PTY. LIMITED.**

**Peter Thompson MIE Aust CPEng**  
**Member No. 146800**  
**Civil/Geotechnical Engineer**