

**PRELIMINARY GEOTECHNICAL ASSESSMENT
FOR
PROPOSED ALTERATIONS AND ADDITIONS
AT
15 DELMAR PARADE, DEE WHY**

1.0 INTRODUCTION.

1.1 This assessment has been prepared to accompany an application for development approval.

1.2 The site is located in land that is subject to Areas B and C on the Landslip Risk Map. The methods used in this Assessment are based on those described in Landslide Risk Management March 2007, published by the Australian Geomechanics Society. Also Council checklist contained within Clause E10 of Warringah DCP and the WLEP Map identifying the Landslip Risk Class as highlighted (red) below:-

	<i>LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)</i>
<input type="checkbox"/>	<i>A Geotechnical Report not normally required</i>
<input checked="" type="checkbox"/>	<i>B Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required</i>
<input checked="" type="checkbox"/>	<i>C Geotechnical Report is required</i>
<input type="checkbox"/>	<i>D Council officers to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>E Geotechnical Report required</i>

1.3 The experience of Hodgson Consulting Engineers spans some 25 years in Northern Beaches and the Greater Sydney area.

2.0 PROPOSED DEVELOPMENT

2.1 Construct new first floor addition over the front of the existing residence.

2.2 Details of the proposed development are shown on a series of architectural drawings prepared by Cape Cod Australia Job No: 8165, Dwg No: 1 to 10, Version C and dated 30th March, 2022.

3.0 SITE LOCATION

3.1 The site was inspected for this assessment on the 14th April, 2022.

3.2 The property is on the low side of the road and has a northerly aspect. The land slopes away from the block to the north located on a moderate to steep slope of approximately 10 to 25 degrees controlled by the underlying bedrock that outcrops to the south of the house.

4.0 SITE DESCRIPTION

4.1 The average sized residential block is situated on the low side Delmar Parade. A short driveway curves down to the east to a stand-alone garage situated close to the-eastern side boundary at the front of the block. A stone and masonry retaining wall is on the southern side of the driveway with landscape garden above. Pedestrian access is via the concrete driveway and pathway to a paved patio and the main entry to the existing residence. The cut for Delmar parade is through Hawkesbury Sandstone bedrock. The surface features of the front yard are controlled by the underlying and exposed Hawkesbury Sandstone bedrock. Access to the rear of the existing residence is via pathways on the eastern and western sides of the existing residence. A near level lawn area is at the rear of the existing residence. Retaining walls on neighbouring properties are adjacent the side and rear boundaries. At the time of our inspection no significant geotechnical hazards were identified and the existing residence was in good condition with no signs of significant movement. Only a very small part of the south western corner of the site is indicted to be in the Class C area on the Landslip Risk Map with the site predominately in Class B area.

5.0 RECOMMENDATIONS

5.1 The proposed alterations and additions may require minimal excavation for any new footings that maybe required. The depth to the underlying bedrock is approximately 0.5 to 1.0 metres. We recommend that any new foundations required are to be taken to the underlying bedrock.

5.2 The proposed alteration, additions and existing site conditions were considered and applied to the Council Flow Chart for class B and C areas as contained within Clause E10 of Warringah DCP and the WLEP. Based on this preliminary assessment, the proposed development works would be considered satisfactory from a Geotechnical and landslip perspective subject to the application of good engineering practice for the structural design and construction methods. It is not proposed to undertake major excavation for the works; therefore it is recommended no further geotechnical assessment is required.

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