

**GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER
FORM NO. 1 – To be submitted with Development Application**

Development Application for	<u>Mark Herdman</u> Name of Applicant
Address of site	<u>8 Edwin Avenue, Avalon Beach</u>

Declaration made by geotechnical engineer or engineering geologist or coastal engineer (where applicable) as part of a geotechnical report

I, Garth Hodgson on behalf of Hodgson Consulting Engineers Pty Ltd
(insert name) (Trading or Company Name)

on this the 26th May, 2021 certify that I am a geotechnical engineer or engineering geologist or coastal engineer as defined by the Geotechnical Risk Management Policy for Pittwater - 2009 and I am authorised by the above organisation/company to issue this document and to certify that the organisation/company has a current professional indemnity policy of at least \$2million.

Please mark appropriate box

- ☐ Prepared the detailed Geotechnical Report referenced below in accordance with the Australia Geomechanics Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009
- ☐ I am willing to technically verify that the detailed Geotechnical Report referenced below has been prepared in accordance with the Australian Geomechanics Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009
- ☐ Have examined the site and the proposed development in detail and have carried out a risk assessment in accordance with paragraph 6.0 of the Geotechnical Risk Management Policy for Pittwater - 2009. I confirm the results of the risk assessment for the proposed development are in compliance with the Geotechnical Risk Management Policy for Pittwater - 2009 and further detailed geotechnical reporting is not required for the subject site.
- ☐ Have examined the site and the proposed development/alteration in detail and am of the opinion that the Development Application only involves Minor Development/Alterations that do not require a Detailed Geotechnical Risk Assessment and hence my report is in accordance with the Geotechnical Risk Management Policy for Pittwater – 2009 requirements for Minor Development/Alterations.
- ☒ Have examined the site and the proposed development/alteration in separate form and not affected by a Geotechnical Hazard and does not require a Geotechnical report or Risk Assessment and hence my Report is in accordance with the Geotechnical Risk Management Policy for Pittwater – 2009 requirements
- ☐ Provided the coastal process and coastal forces analysis for inclusion in the Geotechnical Report


Geotechnical Report Details:

Report Title: 8 EDWIN AVENUE, AVALON BEACH. Geotechnical letter for proposed swimming pool– QP 00223A
Report Date: 26 th May, 2021
Author : Garth Hodgson
Author's Company/Organisation : HODGSON CONSULTING ENGINEERS PTY LTD

Documentation which relate to or are relied upon in report preparation:

Hot House Studio, Project No: 21043, Dwg No: DA001, DA010, DA100, DA200, DA210, DA300, DA500, DA600, Issue 01 and dated 21 st May, 2021
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I am aware that the above Geotechnical Report, prepared for the abovementioned site is to be submitted in support of a Development Application for this site and will be relied on by Pittwater Council as the basis for ensuring that the Geotechnical Risk Management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure, taken as at least 100 years unless otherwise stated and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk.

Signature 

Name Garth Hodgson

Chartered Professional Status MIE Aust

Membership No. 2211514

Company Hodgson Consulting Engineers Pty Ltd

The General Manager
Northern Beaches Council
Pittwater Area
PO Box 82
MANLY NSW 2095

Dear Sir,

8 EDWIN AVENUE, AVALON BEACH.
Geotechnical letter for proposed swimming pool

A Geotechnical Site Inspection was carried out at the subject address on the 26th April, 2021. No subsurface investigation was undertaken. The site is mapped by the Northern Beaches Council 'Pittwater LEP 2014' Geotechnical Hazard Map with no part of the site in a Hazard category, Figure 1.



Figure 1

The proposed works will comprise of the construction of a new swimming pool near the south western corner of the existing residence. The proposed swimming pool is away from the south western side boundary. Excavation is only required for the proposed swimming pool. Details of the proposed swimming pool are shown on the plans prepared by Hot House Studio, Project No: 21043, Dwg No: DA001, DA010, DA100, DA200, DA210, DA300, DA500, DA600, Issue 01 and dated 21st May, 2021.

The site is on the high side of the Edwin Avenue and is accessed by a concrete driveway on south eastern corner of the site. The slope rises predominately to the north west at an average angle of 10 to 15 degrees with a slight cross fall to the east. The neighbouring properties have similar elevation and geomorphology to the subject property. 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 due to geotechnical instability.

We recommend the foundations of the swimming pool are founded on undisturbed natural material. The design allowable bearing capacity for the likely clays to be encountered is a minimum 150 kPa.

The proposed development is to be constructed with only the excavations required for the proposed swimming pool foundations. The swimming pool is outside the zone of influence of the existing front boundary retaining wall and is offset from the side south western boundary by a minimum 1.0 metre.

The property appears stable by inspection and accordingly the proposed development will have an Acceptable Risk Level in accordance with the 2009 Geotechnical Risk Management Policy for Northern Beaches Council – Pittwater subject to good engineering practice for the structural design and construction methods.

HODGSON CONSULTING ENGINEERS PTY LTD.



Garth Hodgson MIE Aust
Member No. 2211514
Civil/Geotechnical & Structural
Engineer