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

		Development App		
			Name of Applicant	
		Address of site	158 Crescent Road, Newport	
D	eclara	tion made by geo	otechnical engineer or engineering geologist or coastal engineer (where applicable) as part of a geotechnical report	3
l,	G	arth Hodgson (insert name)	on behalf of Hodgson Consulting Engineers Pty Ltd (Trading or Company Name)	
	ed by t	he Geotechnical Ris	nber, 2020 certify that I am a geotechnical engineer or engineering geologist or coastal engineer sk Management Policy for Pittwater - 2009 and I am authorised by the above organisation/company to issue the organisation/company has a current professional indemnity policy of at least \$2million.	
Please □	Pre		Geotechnical Report referenced below in accordance with the Australia Geomechanics Society's Landslide Res (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009	lisk
	Aus		cally verify that the detailed Geotechnical Report referenced below has been prepared in accordance vices Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management	
	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 fro Pittwater - 2009 and further detailed geotechnical reporting is not required for the subject site.			
	only	involves Minor Dev	e and the proposed development/alteration in detail and am of the opinion that the Development Application velopment/Alterations that do not require a Detailed Geotechnical Risk Assessment and hence my report is interest. Bisk Management Policy for Pittwater – 2009 requirements for Minor Development/Alterations.	n
	not		e and the proposed development/alteration is separate form and not affected by a Geotechnical Hazard and o ical report or Risk Assessment and hence my Report is in accordance with the Geotechnical Risk Managem 009 requirements	
	Pro	vided the coastal pro	rocess and coastal forces analysis for inclusion in the Geotechnical Report	
Geotec	hnical	Report Details:		
	Repo	rt Title: 158 CRESC	ENT ROAD, NEWPORT. Geotechnical letter for proposed alterations and additions– QY 00167A	
	Repo	rt Date: 8 th Decembe	per, 2020	
	Author: Garth Hodgson			
	Autho	r's Company/Organ	nisation: HODGSON CONSULTING ENGINEERS PTY LTD	
			or are relied upon in report preparation: and Development Solutions, Ref:- 7188, Plan A3, Sheets 1 to 2, Issue 'E' and dated 7 th Decembe	ar .
2020	gs pro	pared by ODO La	and bevelopment colutions, itel / loc, i lan Ac, cheets i to 2, issue 2 and dated i becembe	
Lam av	vare th	at the above Geote	echnical Report, prepared for the abovementioned site is to be submitted in support of a Development	
Application the propertaken as	ion for osed os at le	this site and will be development have b	e relied on by Pittwater Council as the basis for ensuring that the Geotechnical Risk Management aspects of been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure, ess otherwise stated and justified in the Report and that reasonable and practical measures have been	
			Signature	
			Name Garth Hodgson	
			Chartered Professional Status MIE Aust	
			Membership No. 2211514	
			Company Hodgson Consulting Engineers Pty Ltd	



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

Dear Sir,

158 CRESCENT ROAD, NEWPORT.

Geotechnical letter for proposed alterations and additions

A Geotechnical Site Inspection was carried out at the subject address on the $20^{\rm th}$ November, 2019. No subsurface investigation was undertaken. The site is mapped by the Northern Beaches Council 'Pittwater LEP 2014' Geotechnical Hazard Map with the lower two thirds of the site is in Hazard Category H1, Figure 1.

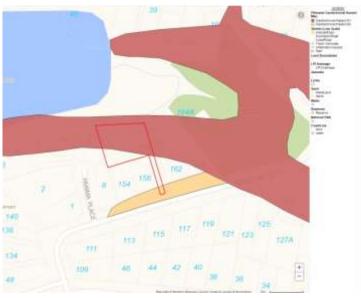


Figure 1

The proposed works will comprise of a new sea wall to be built approximately 1.0 to 1.2 metres high above existing ground levels at the bottom of the existing bank. Minor filling behind the proposed sea wall will be required for the reclamation of land. Details of the proposed development are shown on the plans prepared by SDG Land Development Solutions, Ref:- 7188, Plan A3, Sheets 1 to 2, Issue 'E' and dated 7th December, 2020.



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The site is on the low side of the Crescent Road and is accessed by a concrete driveway on the north eastern corner of the site. The moderate to steep slope falls predominately to the north at average angles of 15 to 25 degrees towards the waters of Pittwater and extends above the subject property to the crest near The Avenue. The neighbouring properties have similar elevation and geomorphology to the subject property. No significant movement attributed slope instability was observed in the existing buildings.

Some minor movement in the stacked sandstone retaining walls at the rear of the existing boat shed was observed at the time of our inspection. We recommend that these retaining walls are to be monitored and if any further significant movement is observed then appropriate action is to be taken at this time.

The proposed sea wall is to be designed and certified by a suitably qualified structural engineer.

The Geotechnical Engineer is to inspect and approve the foundation materials of all footing excavations before concrete is placed.

In our opinion the risk of instability in the slope will be reduced by the construction of the proposed sea wall provided good engineering and building practices are followed and if the recommendations above are undertaken the likelihood of the slope failing and impacting on the subject property is assessed as having an Acceptable Risk Level.

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