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PRELIMINARY GEOTECHNICAL ASSESSMENT:

128 Queenscliff Road, Queenscliff

1.0	LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)
	A - Geotechnical Report not normally required
	B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
	C - Geotechnical Report is required
	D - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
	E - Geotechnical Report required

2.0 Proposed Development

- **2.1** Construct a new first floor extension.
- **2.2** No excavations or fills are required.
- 2.3 Details of the proposed development are shown on 15 drawings prepared by VN Draft, Project number 941109463, sheets numbered 02 to 16, Revision C, dated "21.9.23".

3.0 Site Location

3.1 The site was inspected on the 25th November, 2021, and previously on the 10th March, 2014.

3.2 This residential property is on the low side of the road and has a S aspect. It is located on the gentle to moderately graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops on the downhill side of the property. Where sandstone is not exposed, it is expected to underlie the surface at relatively shallow depths. The natural surface of the block has been altered with an



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excavation for a pool on the downhill side of the property. The proposed development will not alter the surface further for the proposed works.

3.3 The site shows no indications of historical movement in the natural surface that could have occurred since the property was developed. We are aware of no history of instability on the property.

4.0 Site Description

The natural slope falls across the property at an average angle of ~10°. At the road frontage, a concrete driveway runs to a garage attached to the E side of the house. Between the road frontage and the house is a narrow garden area. The old part three level brick house is in good condition for its age. It has been added to on the downhill side at some time after the initial construction. The supporting brick and sandstone walls show no signs of movement that could be related to slope instability. A gently sloping lawn extends from the downhill side of the house to a pool that has been cut into the slope. The water level of the pool indicates no ground movement has occurred in the shell of the pool since its construction. The slope steps down ~2.5m immediately below the lower common boundary. The surface of the step is totally obscured by vegetation but it appears a retaining wall underlies the foliage. The wall could not be seen but given the age of the house it is probably a sandstone block wall. The surface immediately behind the wall shows no tension cracking or other signs of movement indicating the wall is currently stable. The area surrounding the house is mostly paved or lawn covered. No signs of movement associated with slope instability were observed on the grounds. The adjoining neighbouring properties were observed to be in good order as seen from the road and the subject property.

5.0. Geotechnical Hazards and Risk Analysis

No geotechnical hazards were observed beside the property. The gentle to moderately graded slope that falls across the property and continues above and below is a potential hazard (Hazard One).



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Geotechnical Hazards and Risk Analysis - Risk Analysis Summary

HAZARDS	Hazard One
ТҮРЕ	The gentle to moderate slope that falls across the site and continues above and below failing and impacting on the proposed works.
LIKELIHOOD	'Unlikely' (10 ⁻⁴)
CONSEQUENCES TO PROPERTY	'Medium' (12%)
RISK TO PROPERTY	'Low' (2 x 10 ⁻⁵)
RISK TO LIFE	5.5 x 10 ⁻⁷ /annum
COMMENTS	This level of risk is 'ACCEPTABLE'.

(See Aust. Geomech. Jnl. Mar 2007 Vol. 42 No 1, for full explanation of terms)

6.0 Recommendations

The proposed development and site conditions were considered and applied to the Council Flow Chart.

Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

White Geotechnical Group Pty Ltd.

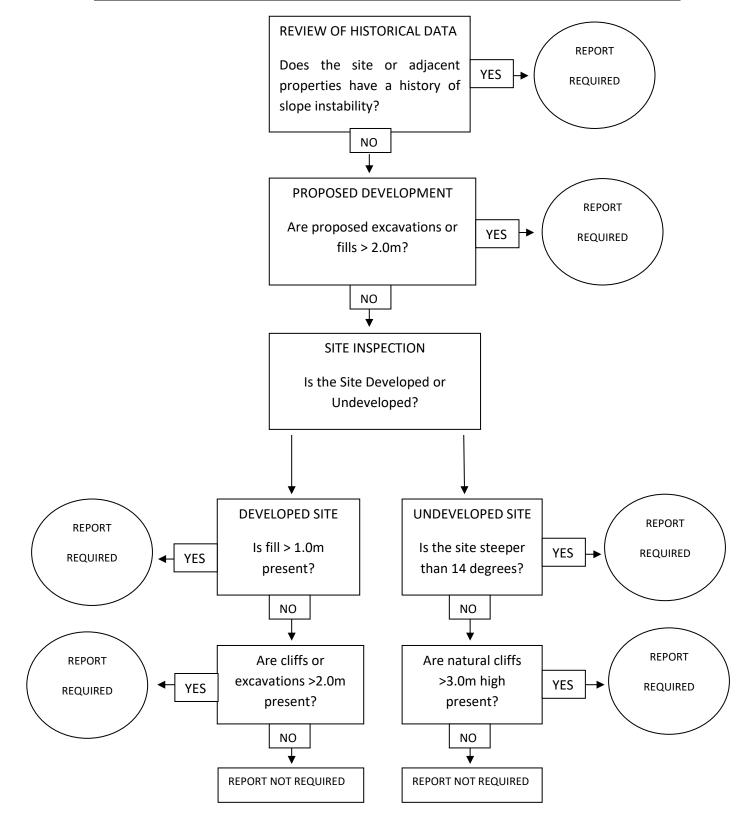
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Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)





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Information about your Preliminary Assessment

This Preliminary Assessment relies on visual observations of the surface features observed during the site inspection. Where reference is made to subsurface features (e.g. the depth to rock) these are interpretations based on the surface features present and previous experience in the area. No ground testing was conducted as part of this assessment and it is possible subsurface conditions will vary from those interpreted in the assessment.

In some cases, we will recommend no further geotechnical assessment is necessary despite the presence of existing fill or a rock face on the property that exceed the heights that would normally trigger a full geotechnical report, according to the Preliminary Assessment Flow Chart. Where this is the case, if it is an existing fill, it is either supported by a retaining wall that we consider stable, or is battered at a stable angle and situated in a suitable position on the slope. If it is a rock face that exceeds the flow chart limit height, the face has been deemed to be competent rock that is considered stable. These judgements are backed by the inspection of over 5000 properties on Geotechnical related matters.

The proposed excavation heights referred to in section 2.0 of this assessment are estimated by review of the plans we have been given for the job. Although we make every reasonable effort to provide accurate information excavation heights should be checked by the owner or person lodging the DA. If the excavation heights referred to in in section 2.0 of this assessment are incorrect we are to be informed immediately and before this assessment is lodged with the DA.