

PRELIMINARY GEOTECHNICAL ASSESSMENT:

19 Curl Curl Parade, Curl Curl

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

2.0 Proposed Development

- 2.1 Construct a new two-storey house on the vacant lot.
- 2.2 Apart from those for footings, no excavations are required. No fills are shown on the plans.
- 2.3 Details of the proposed development are shown on 25 drawings prepared by Sanctum Design, Project number HAM0720, drawings numbered A00 to A24, Issue DA01, dated 4/9/20.

3.0 Site Location

- 3.1 The site was inspected on the 24th August, 2020, and previously on the 20th November, 2017.
- 3.2 This residential property is on the low side of the road and has a N aspect. It is located on the 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 vacant lot has not been altered. 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 $\sim 14^\circ$. The fill for the road is lawn-covered and merges into the natural slope. A moderately sloping lawn falls from the road frontage to outcrops of competent Medium Strength Hawkesbury Sandstone at roughly the midpoint of the property. The outcrops are massively bedded joint blocks that step down the site to the lower boundary. The east-most joint block at the midpoint of the property is undercut to $\sim 3.0\text{m}$ (Photo 1). The undercut is bridged at the W end and the undercut joint block extends back into the slope sufficiently that the balance point is well back from the undercut and the rock is considered stable. No other undercutting or other serious geological defects were observed in the outcrops and they are considered stable. The vacant lot is mostly 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 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.

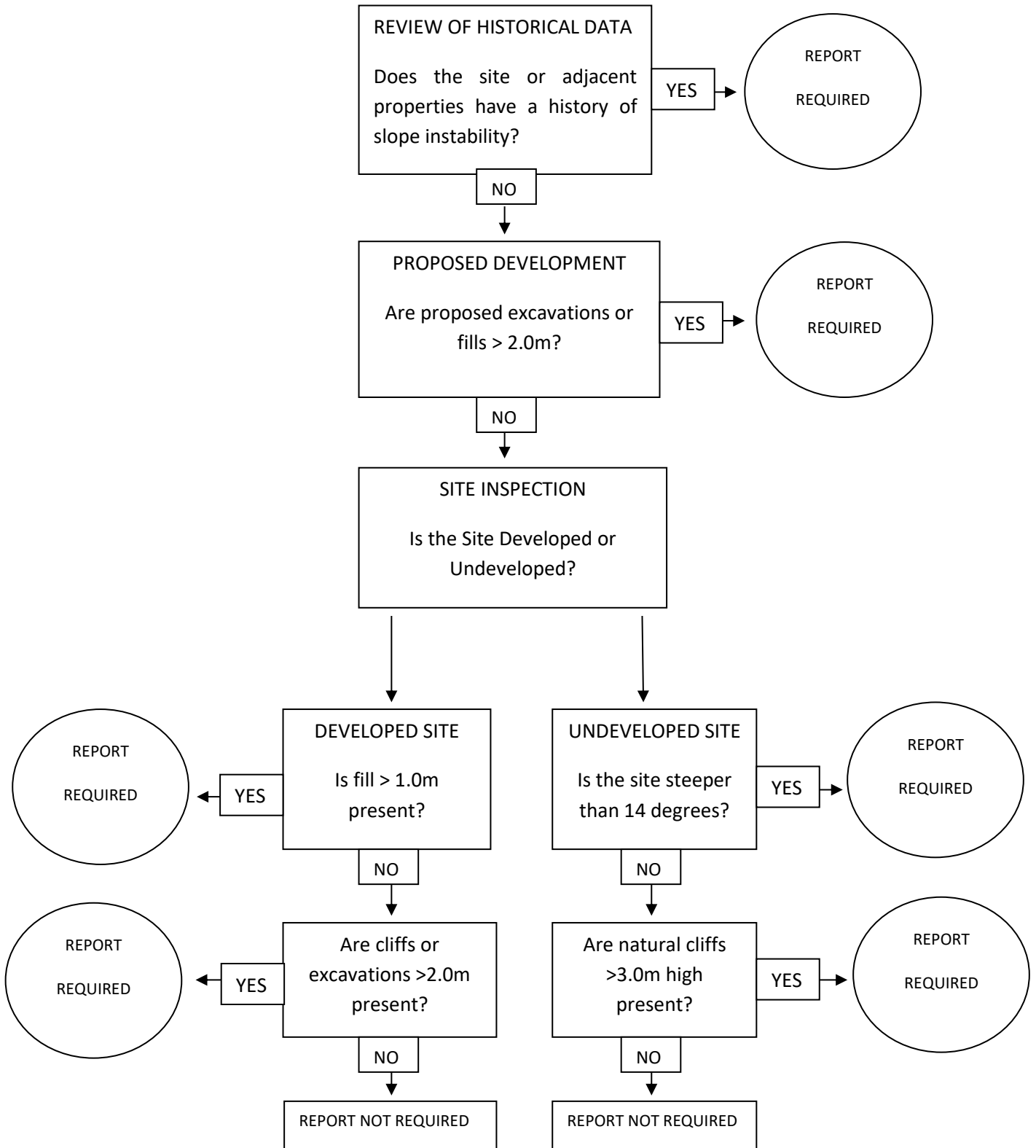


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Photo 1

Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



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.