

PRELIMINARY GEOTECHNICAL ASSESSMENT:

13 Kalianna Crescent, Beacon Hill

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 pool on the uphill side of the property.
- 2.2** Extend the E side of the house by excavating to a maximum depth of ~0.9m.
- 2.3** Construct a new upper floor addition.
- 2.4** Extend the deck on the uphill side of the house.
- 2.5** No fills are shown on the plans.
- 2.6** Details of the proposed development are shown on 16 drawings prepared by Your Beautiful Home, Project number 200120, drawings numbered DA01, DA03 to DA16, and DA601, dated 9/9/2020.

3.0 Site Location

- 3.1** The site was inspected on the 9th June, 2020.
- 3.2** This residential property is on the high side of the road and has a S aspect. It is located on the gently graded upper middle reaches of a hillslope. Medium Strength

Hawkesbury Sandstone bedrock outcrops and steps up 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 a low excavation in the foundation space of the house. The proposed development will require an excavation to a maximum depth of ~0.9m for the extension to the E side of the house.

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 rises across the property at gentle angles. At the road frontage, a concrete driveway runs to a parking area on the downhill side of the house. Between the road frontage and the house is a gently sloping lawn. The part two-storey house is supported on brick walls and brick piers. The external supporting brick walls display no significant signs of movement and the supporting brick piers stand vertical. Some of the walls and piers were observed to be supported directly onto outcropping competent Medium Strength Sandstone. Another gently sloping lawn extends off the uphill side of the house to the base of a sandstone outcrop. The outcrop extends across the entire property, displays no significant geological defects, and is considered 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 Recommendations

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

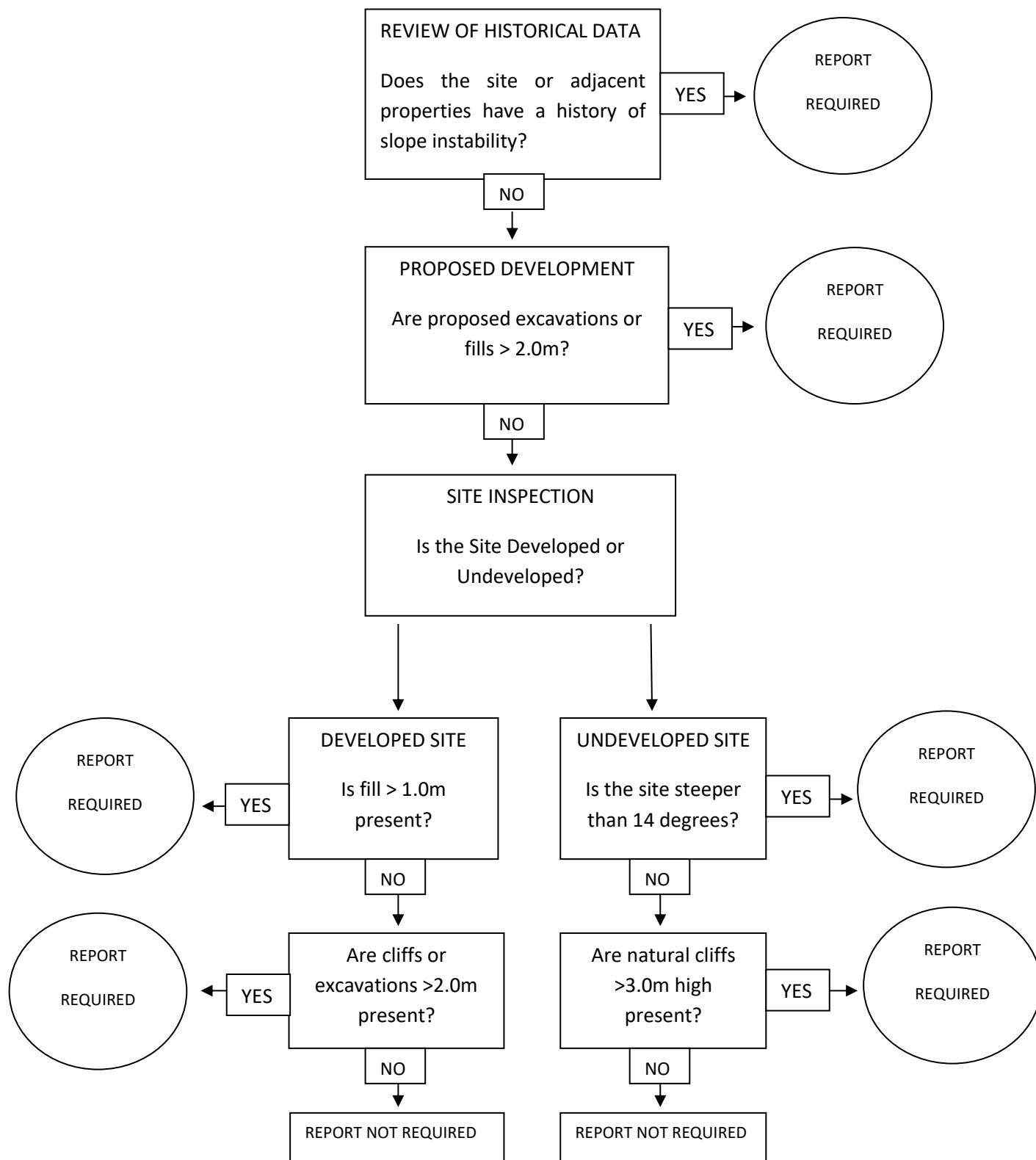
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

White Geotechnical Group Pty Ltd.



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Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



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.
