

## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

### **71 Quirk Street, Dee Why**

<b>1.0</b>	<b>LANDSLIP RISK CLASS</b> (Highlight indicates Landslip Risk Class of property)
<input checked="" 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** Replace the balcony on the uphill side of the house.
- 2.2** No excavations or fills are shown on the plans.
- 2.3** Details of the proposed development are shown on 18 drawings prepared by Buck and simple, Project number 1214, drawings numbered D000 to D002, D010, D011, D050, D060, D070, D100, D101, D300, D301, D400 to D403, D900, and D901, Revision 1, dated 16/12/21.

## **3.0 Site Location**

- 3.1** The site was inspected on the 21<sup>st</sup> December, 2021.
- 3.2** This residential property is on the low side of the road and has a S aspect. It is located on the gently graded upper reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops at the road frontage to 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 filling for landscaping

across 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 site at an average angle of  $\sim 7^\circ$ . Competent Medium Strength Sandstone outcrops at the road frontage to the property. No significant geological defects were observed in the outcrop and it is considered stable. At the road frontage, a concrete driveway runs down the slope to a garage on the ground floor of the house. Between the road frontage and the house is a garden fill. The fill for the garden is supported by a stable mortared stack rock retaining wall reaching  $\sim 0.6\text{m}$  high. The part three-storey rendered masonry house is supported on masonry walls and concrete columns. The supporting walls display no significant signs of movement and the supporting columns stand vertical. A paved fill extends off the downhill side of the house. The fill is supported by a stable mortared stack rock retaining wall  $\sim 0.6\text{m}$  high. A gently sloping lawn surrounded by garden beds extends from the base of the wall to the lower common boundary. The area surrounding the house and driveway is mostly lawn and garden-covered with some paved areas. No significant 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.

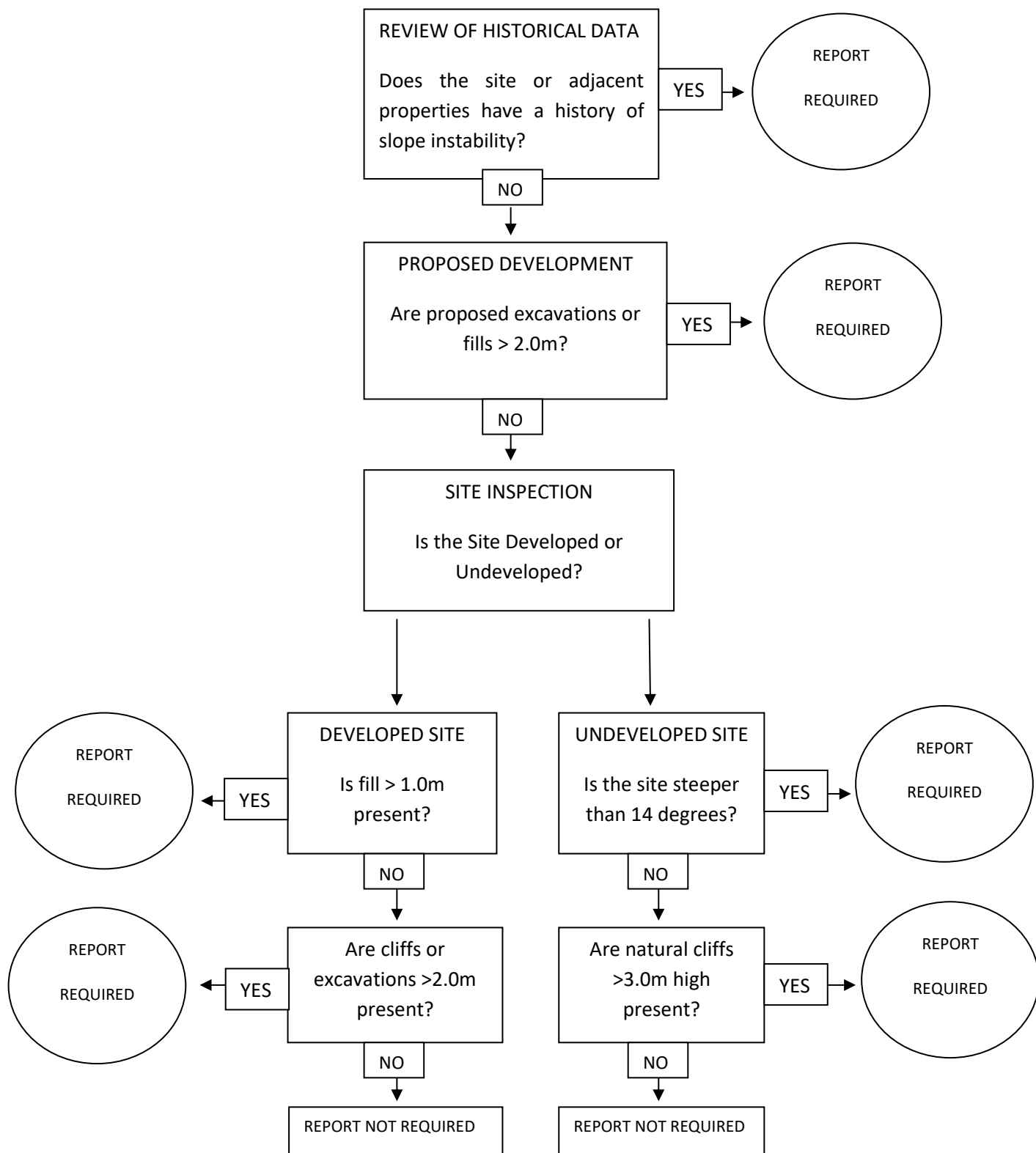
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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.

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