

## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

### **1 Prince Charles Road, Frenchs Forest**

|                                     |   |
|-------------------------------------|---|
| <b>1.0</b>                          | <b>LANDSLIP RISK CLASS</b> ( <i>Highlight indicates Landslip Risk Class of property</i> )         |
| <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** Add a new first floor addition to the existing house.
- 2.2** Minor internal alterations to the ground floor of the existing house.
- 2.3** No significant excavations or fills are shown on the plans.
- 2.4** Details of the proposed development are shown on 6 drawings prepared by Immaculate Homes, job number 21096, sheets numbered DA-01 to DA-06, Revision B, dated 3/2/22.

## **3.0 Site Location**

- 3.1** The site was inspected on the 8<sup>th</sup> April, 2022.
- 3.2** This residential property is on the low side of the road and has a SW aspect. It is located on the moderate to steeply graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops at various locations across 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 low

cuts and fills for paved and garden areas 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 property at an average angle of ~17°. At the road frontage, a concrete right of carriageway (ROW) and concrete driveway run down the slope to a double garage attached to the house. The single storey rendered masonry house with garage below is supported by masonry walls. The external supporting walls show no significant signs of movement. A suspended timber deck extends off the W side of the house. The timber posts supporting the deck stand vertical. Medium Strength Hawkesbury Sandstone bedrock outcrops on the uphill and downhill sides of the house.

Low cuts and fills provide level platforms for paved and garden areas across the property. The cuts and fills are supported by low sandstone block, sandstone flagging, brick, timber and stack rock retaining walls. A low timber retaining wall along part of the W common boundary supports fill on the W neighbouring property. Fill provides a level platform on a council reserve downhill of the property. The area surrounding the house is mostly garden covered with some paved areas. No signs of movement associated with slope instability were observed on the grounds that could have occurred since the property was developed. No cliffs or large rock faces were observed on the property or in the near vicinity. 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.

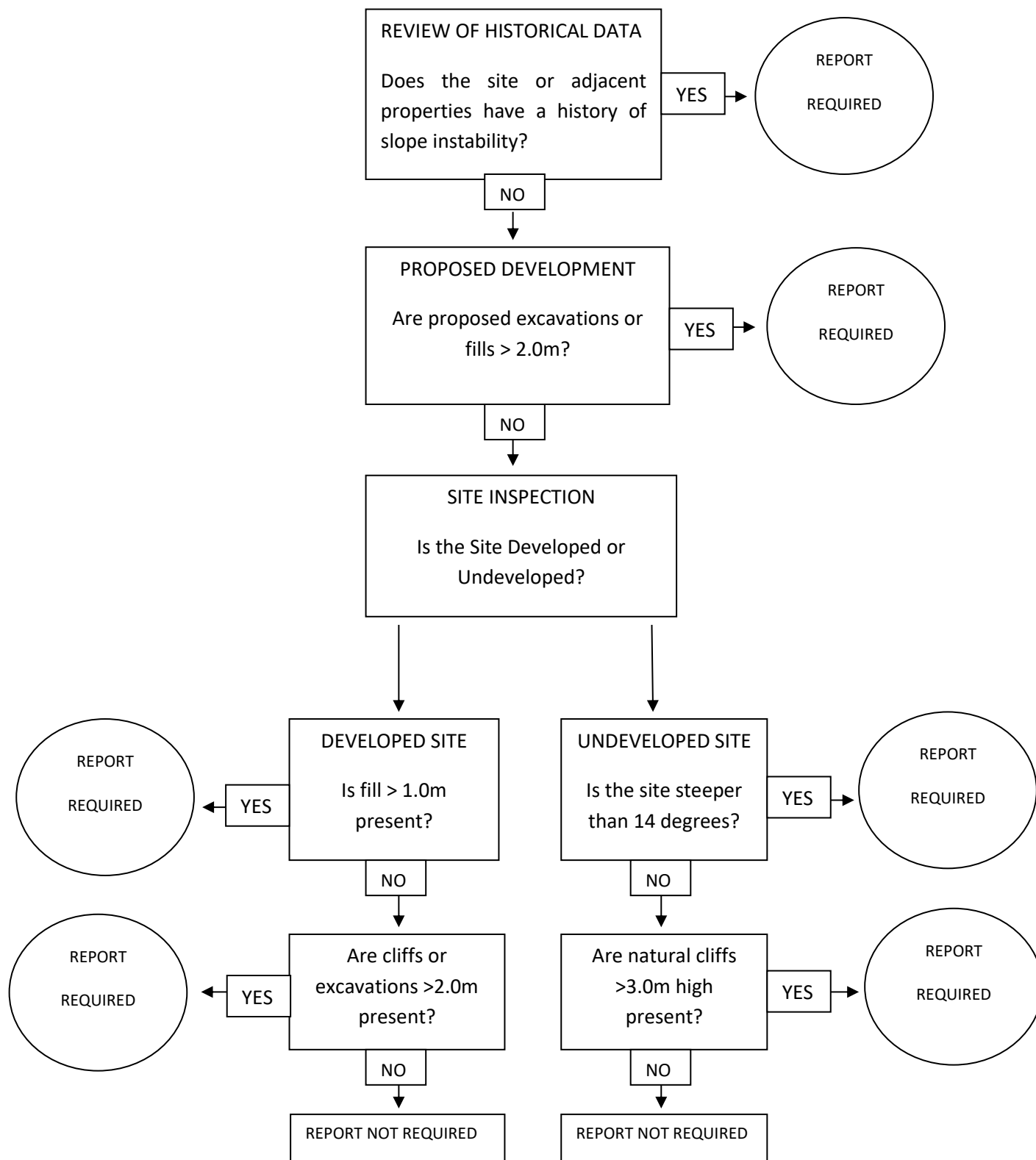
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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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