

## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

### **9 Horning Parade, Manly Vale**

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

## **2.0 Proposed Development**

- 2.1** Demolish the existing pool on the downhill side of the house and construct a new pool and spa by excavating to a maximum depth of ~1.9m.
- 2.2** Extend the level lawn area over the removed existing pool by filling to a maximum depth of ~1.5m.
- 2.3** Various other minor external alterations and additions.
- 2.4** Apart from those for footings, no excavations are required.
- 2.5** Details of the proposed development are shown on 3 drawings prepared by Space Landscape Design, project number 222010, drawings numbered DA-01 to DA-03, dated 30<sup>th</sup> November, 2022.

## **3.0 Site Location**

- 3.1** The site was inspected on the 22<sup>nd</sup> November, 2022.
- 3.2** This residential property is on the low side of road and has an E aspect. It is located on the gently graded middle reaches of a hillslope. Competent Medium

Strength Sandstone outcrops and steps down the slope near the lower common boundary. Where it is not exposed, it is expected to underlie the surface at relatively shallow depths. The natural surface of the block is altered with a fill for a level lawn area on the downhill side of the property and a cut for the lower levels of the house and pool. The proposed development will not significantly alter the block further.

**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 surface falls gently across the upper third of the property before falling at an average angle of 10° to the lower common boundary. At the road frontage, a concrete driveway runs down the slope to a garage attached to the uphill side of the house. In between the road frontage and the house is a gently sloping lawn area. The part-three storey rendered brick house is supported on rendered brick walls and brick piers. The external walls showed no significant signs of movement and the visible brick piers appeared to stand vertical. The cut for the lower level of the house has been taken directly through Medium Strength Sandstone. A level lawn area extends off the downhill side of the house to a pool. This pool is to be demolished as part of the proposed works. A moderately sloping lawn area extends to the lower common boundary. Medium Strength Sandstone outcrops and steps down the property in this location. The area surrounding the house is mostly lawn covered with some paving. No significant signs of movement associated with slope instability were observed on the grounds. No cliffs or large rock faces were observed on the property or in the near vicinity. No geotechnical hazards that could impact on the subject property were observed on the surrounding neighbouring properties as viewed from the subject property and the street.

## 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.



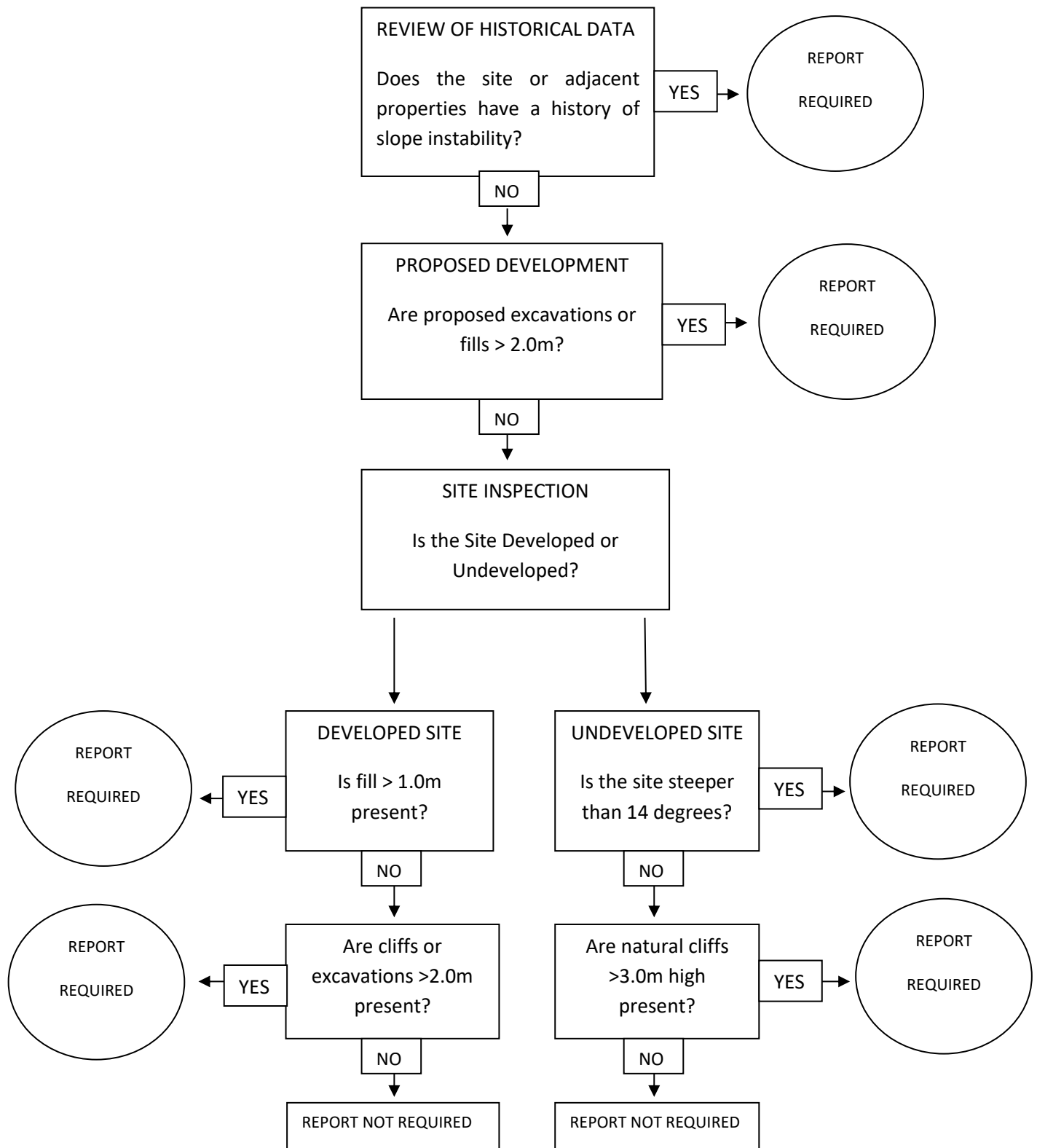
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## Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



## 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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