

PRELIMINARY GEOTECHNICAL ASSESSMENT:

193 Headland Road, North 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 pool on the downhill side of the property.
- 2.2** Minor levelling may be required to construct the proposed pool.
- 2.3** Details of the proposed development are shown on 3 drawings prepared by Right Angle Design & Drafting, Job number CRP21007, drawings numbered P1 to P3, dated March 2022.

3.0 Site Location

- 3.1** The site was inspected on the 28th April, 2022; and previously on the 4th June, 2018.
- 3.2** This residential property is on the low side of the road and has a S aspect. The block is on the upper middle reaches of a hillslope with a gentle to moderate grade. Hawkesbury Sandstone bedrock outcrops and steps down the property. The natural surface of the block has been altered during its development to date with levelling

carried out for the footprint of the house and terracing on the slope below. Minor levelling may be required to construct the proposed pool.

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 $\sim 13^\circ$. At the road frontage, a concrete driveway cuts the slope diagonally and runs to a raised carport. Between the road frontage and the house is a gently sloping lawn. The part three-storey rendered brick and timber framed and clad house is supported on brick walls and brick piers. The external supporting brick walls display no signs of movement and the supporting brick piers stand vertical. The downhill side of the house is supported directly onto an outcrop of competent Medium Strength Sandstone. The outcrop has a dense covering of vegetation so could not be adequately assessed. A level lawn fill extends below this outcrop and is supported by a stable masonry retaining wall $\sim 1.2\text{m}$ high. A gently sloping lawn falls from the base of this wall to near the lower common boundary. Medium Strength Sandstone outcrops through this lawn in places. The fill for the SW corner of this lawn is supported by a stable stack rock retaining wall $\sim 0.6\text{m}$ high. 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.

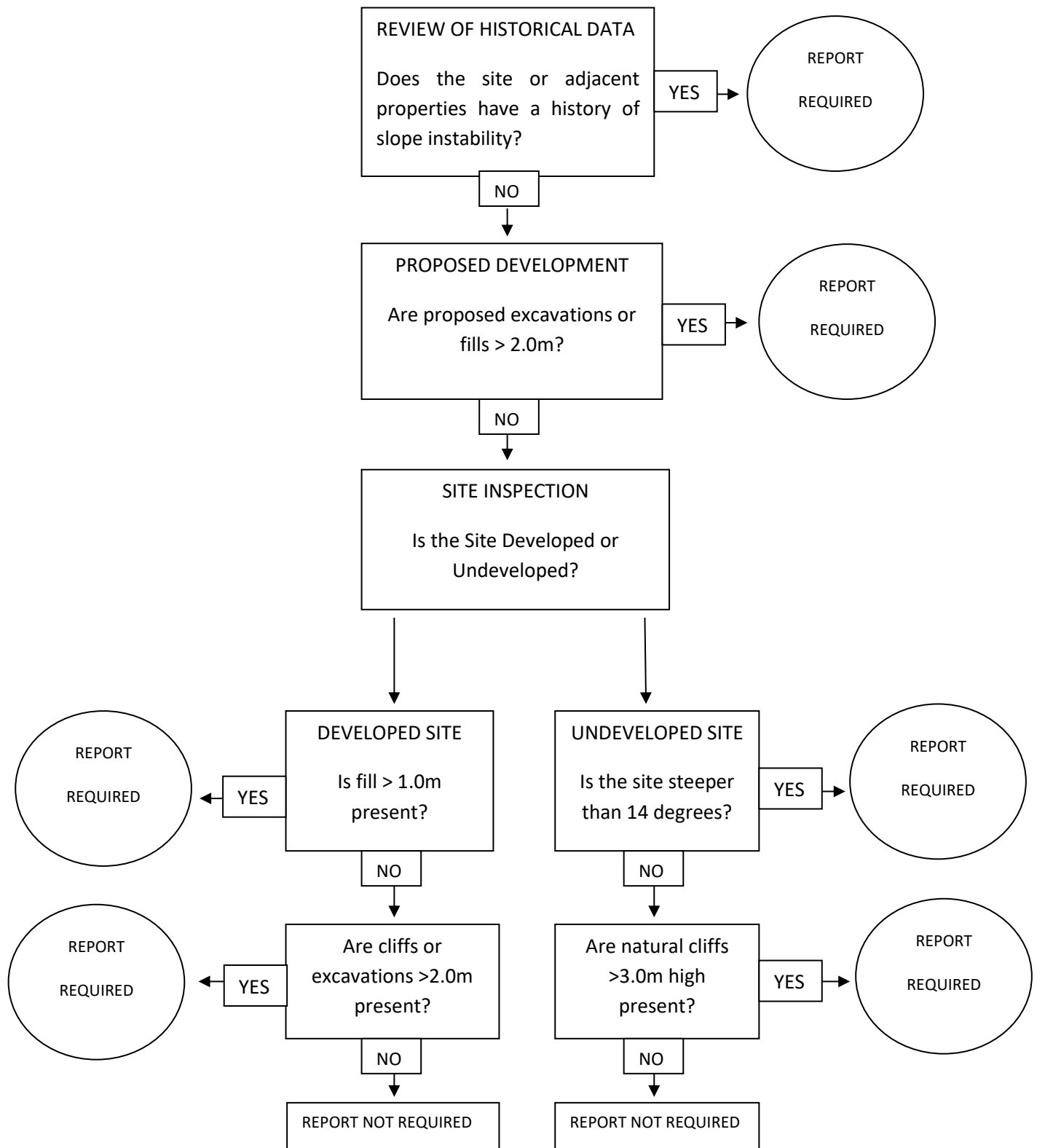
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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.
