

PRELIMINARY GEOTECHNICAL ASSESSMENT:

33 Curl Curl Parade, Curl Curl

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|-------------------------------------|---|
| 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 first floor addition.
- 2.2** Various other internal and external alterations.
- 2.3** No excavations or fills are shown on the plans.
- 2.4** Details of the proposed development are shown on 1 drawing prepared by Add-Style Home Additions, drawing numbered 8201 DA 1, Issue B, dated 8/9/20.

3.0 Site Location

- 3.1** The site was inspected on the 2nd October, 2020.
- 3.2** This residential property is on the low side of the road and has a N aspect. It is located on the gently graded lower middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops and steps down 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 used for

landscaping on the uphill side of 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 subject property. The slope between the road frontage and the house is terraced. The upper terrace is garden-covered and is supported by a $\sim 0.8\text{m}$ high newly constructed concrete block retaining wall. The lower terrace is lawn-covered and is supported by a similar $\sim 1.1\text{m}$ high newly constructed concrete block retaining wall. Both walls look well-made but are unconventionally gravel-filled. We do not know the details of their construction and this assessment is limited in scope to what is visible. A portion of the lower wall was observed to be supported directly onto Medium Strength Sandstone. The single-storey brick house is supported on brick walls and brick piers. The supporting walls display no significant signs of movement and the supporting piers stand vertical. A vertical crack was noticed through the E supporting wall under the deck on the downhill side of the house. The cracking appears tensional and is considered typical of houses of this age and construction. A gently sloping lawn extends off the downhill side of the house to the lower boundary. The area surrounding the house, is mostly lawn-covered with some paved areas. No 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. 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.

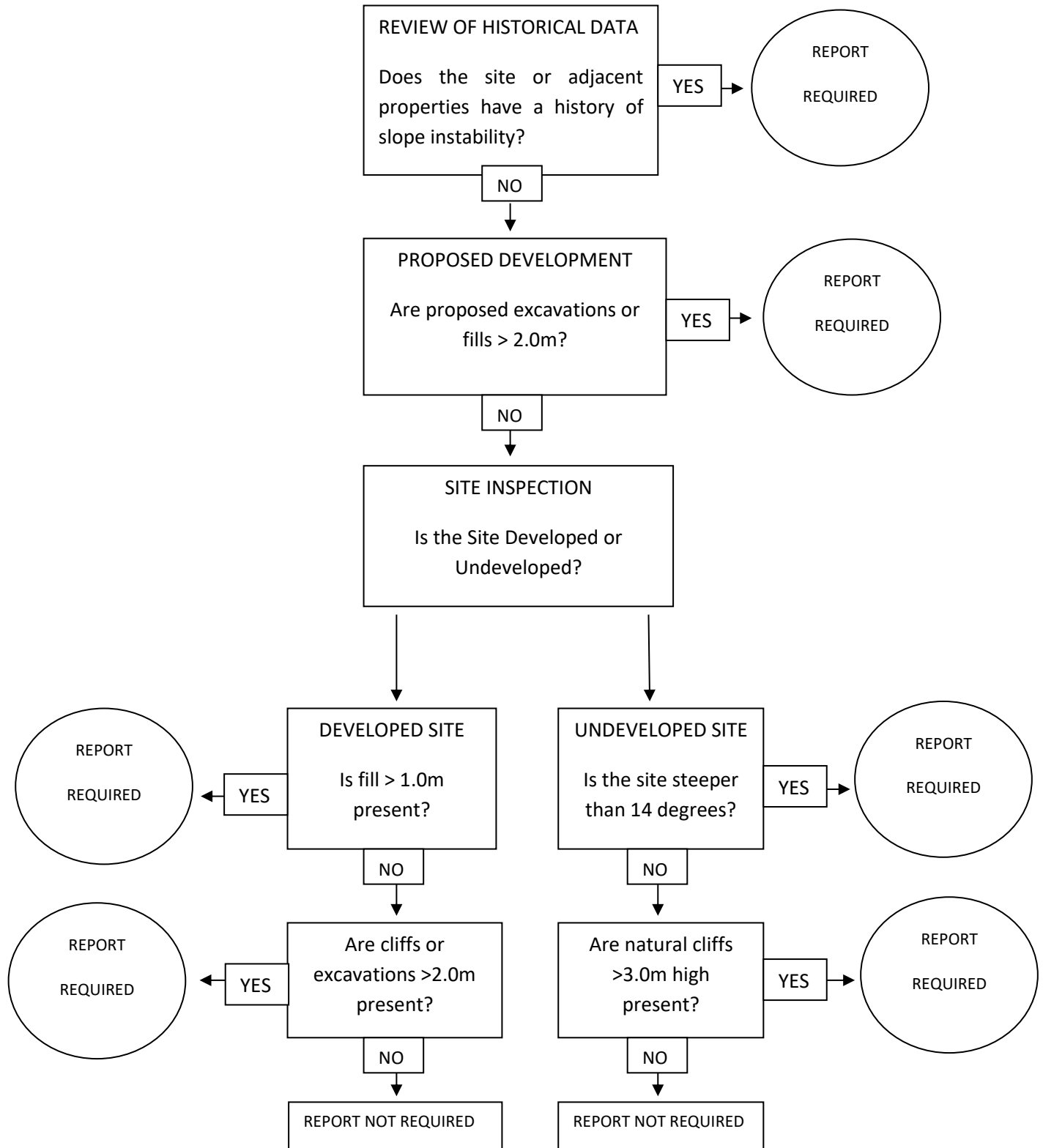
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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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.
