

PRELIMINARY GEOTECHNICAL ASSESSMENT:

120B Parkes Road, Collaroy

1.0	LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)
<input type="checkbox"/>	A - Geotechnical Report not normally required
<input type="checkbox"/>	B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
<input type="checkbox"/>	C - Geotechnical Report is required
<input checked="" 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** Extend the W side of the house.
- 2.2** Construct a new roof over the existing deck on the E side of the house.
- 2.3** Apart from those for footings, no excavations are required. No fills are shown on the plans.
- 2.4** Details of the proposed development are shown on 13 drawings prepared by JJ Drafting, Job number 809/20, drawings numbered DA.01 to 13, dated June 2020.

3.0 Site Location

- 3.1** The site was inspected on the 10th July, 2020.
- 3.2** This residential property is accessed by a Right of Carriageway (ROW) off Parkes Road. It has a SW aspect. It is located on the moderately graded middle reaches of a hillslope. Medium Strength Hawkesbury sandstone bedrock outcrops and steps up 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 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

From the lower boundary to the upper boundary, the natural slope rises at an average angle of $\sim 18^\circ$. At the road frontage, a bitumen ROW runs down and across the slope. The ROW continues past the downhill side of the property. A stable rendered masonry garage has been constructed in the SE corner of the property. Filling has been placed on the slope between the ROW and the house for gardens. The fill is supported by a stable $\sim 1.9\text{m}$ high mortared sandstone block retaining wall. Along the W end of the ROW frontage, the ROW has been cut into the slope. The cut batter has been sprayed with concrete. The part two-storey rendered brick house is supported on brick walls and brick piers. The external supporting walls of the house display no significant signs of movement and the supporting piers stand vertical. Some of the supporting walls were observed to be supported directly onto competent Medium Strength Sandstone bedrock. This outcrop extends across the property. No undercutting or other significant geological defects were observed in the outcrop and it is considered stable. The uphill side of the property has been filled for landscaping purposes. The fills are supported by stable mortared sandstone block retaining walls reaching $\sim 3.5\text{m}$. The retaining walls were observed to be supported directly onto the sandstone outcrop. The area surrounding the house is mostly garden 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.

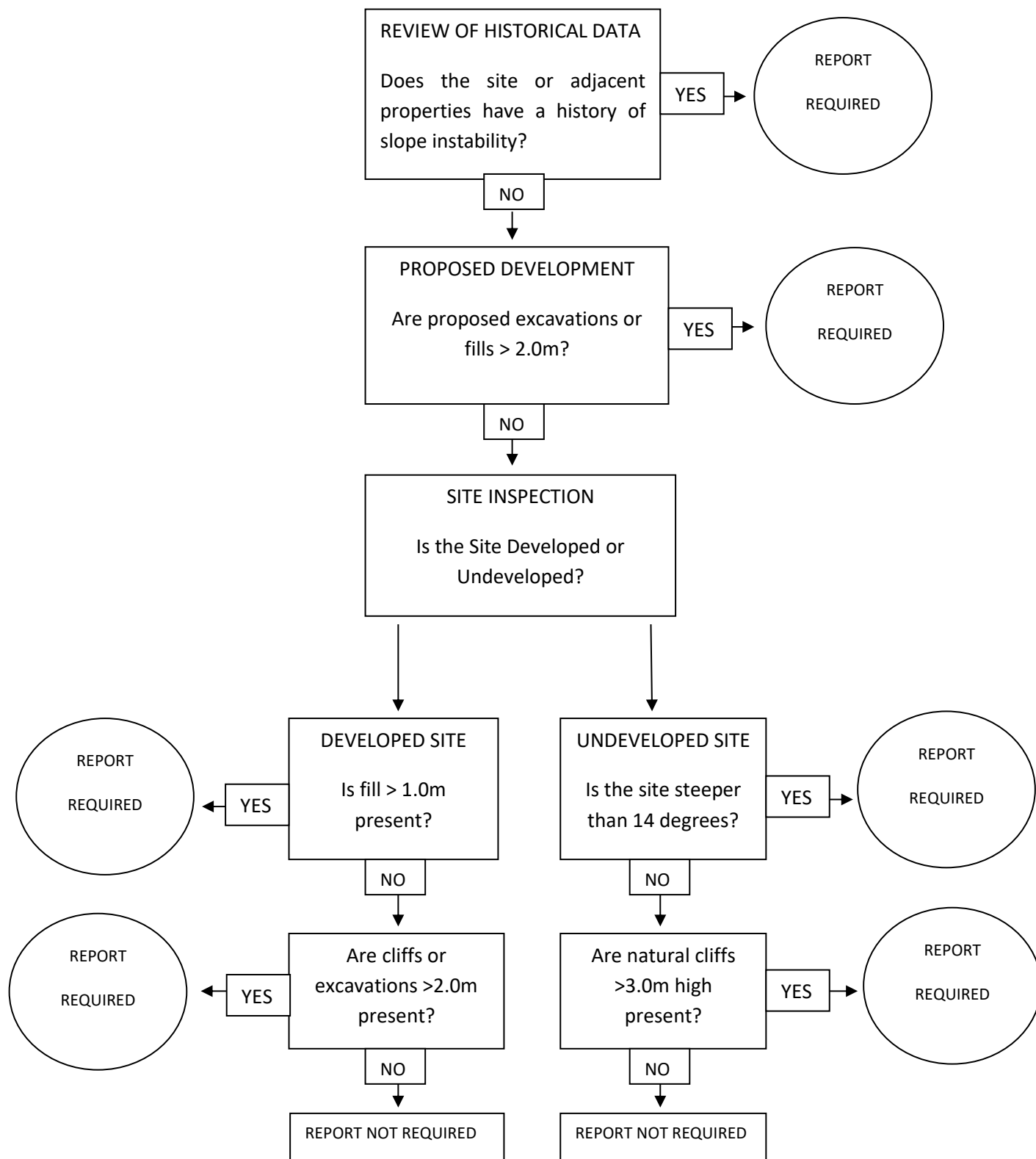
Provided all the footings for the proposed addition be taken to Medium Strength Sandstone and provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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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.
