

PRELIMINARY GEOTECHNICAL ASSESSMENT:

15 Bridgeview Crescent, Forestville

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 pool and deck on the downhill side of a proposed house (The proposed house is part of a separate application) by excavating to a maximum depth of ~1.0m.
- 2.2** No fills are shown on the plans.
- 2.3** Details of the proposed development are shown on 6 drawings prepared by Right Angle Design & Drafting, Job number CRP22002, drawings numbered P1 to P6, Revision A, dated 11/2/23.

3.0 Site Location

- 3.1** The site was inspected on the 28th June, 2022.
- 3.2** This residential property is on the low side of the road and has a SE aspect. It is located on the gentle to moderately graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops and steps down the site. 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 for landscaping across the property. The proposed development will require an excavation to a maximum depth of ~1.0m for 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 ~10°. At the road frontage, a concrete driveway runs down the slope to a carport attached to the W side of the house. The fill for the driveway is supported by a stable stack rock retaining wall reaching ~1.0m high. Medium Strength Sandstone outcrops and steps down the slope between the road frontage and the house. The outcrops display no significant geological defects and are considered stable. The single-storey house is supported on concrete block and brick walls and will be demolished as part of a separate application. A gently sloping lawn extends off the downhill side of the house to the lower corner of the property. A stable timber clad outbuilding has been constructed near the lower corner. A timber retaining wall supporting a fill on the SW neighbouring property immediately adjacent to the outbuilding was observed to be tilting towards the property at a maximum of ~11° (Photo 1). We recommend consideration be made to formulating a plan with the owners of the SW neighbouring property to replace this retaining wall as part of the proposed works. 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. 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.

Reviewed By:



Nathan Gardner
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Engineering Geologist and Environmental Scientist.

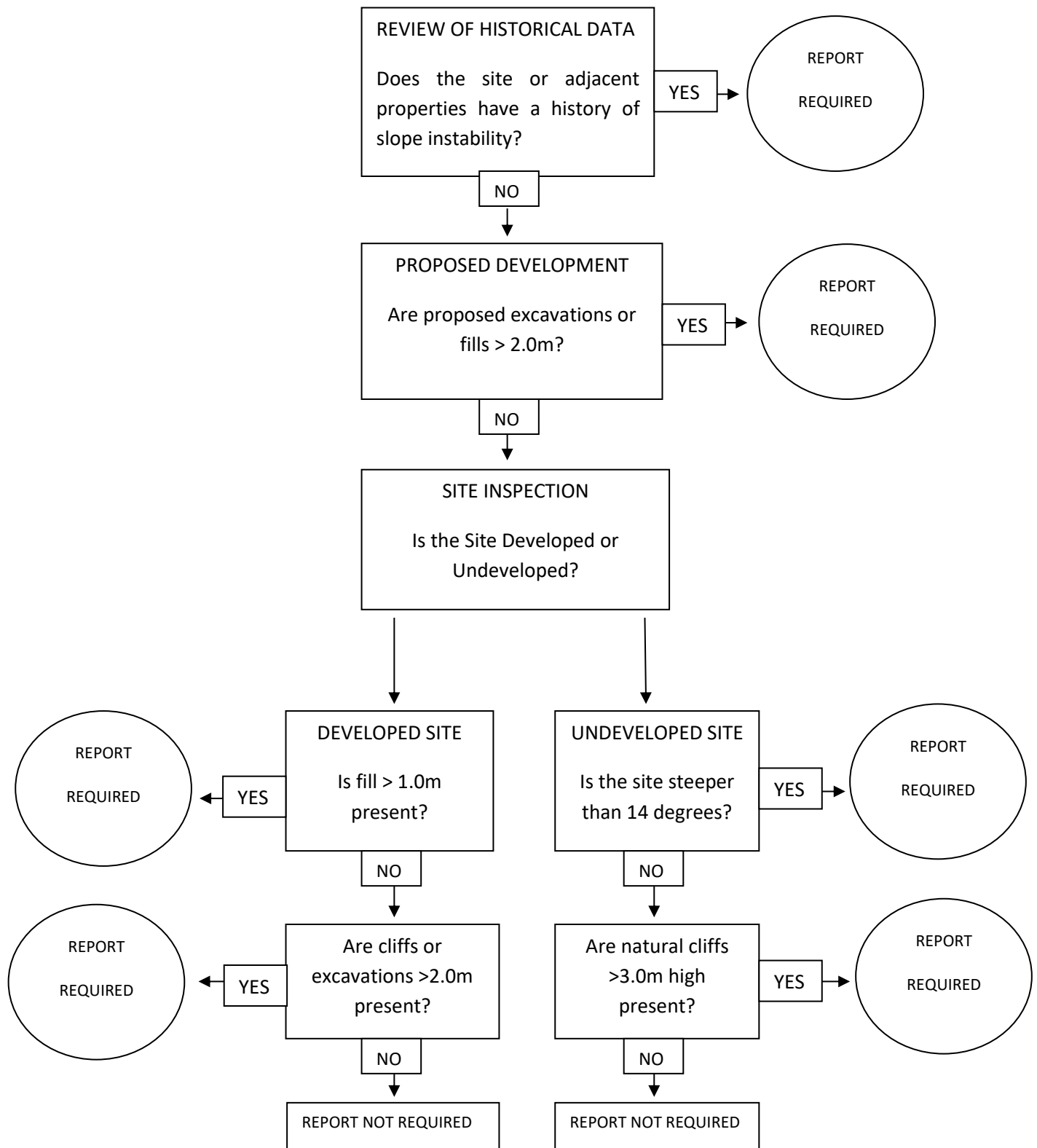


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Photo 1

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.
