

PRELIMINARY GEOTECHNICAL ASSESSMENT:

17 Kangaroo Rd, Collaroy Plateau

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** Demolish the existing house. Construct a new two storey house by excavating to a maximum depth of ~0.5m.
- 2.2** Install a new pool on the E side of the property by excavating to a maximum depth of ~1.2m into the slope.
- 2.3** No significant fills are shown on the plans.
- 2.4** Details of the proposed development are shown on 5 drawings prepared by Absolute Building Designers, drawings numbered Cordukes C8 1 to 5, dated 11/03/20.

3.0 Site Location

- 3.1** The site was inspected on the 19th March, 2020.
- 3.2** This residential property is on the low side of the road and has a S aspect. The block runs longways to the E, so the slope is a cross-fall. It is located on the gently graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone

bedrock outcrops on the E side of 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 a cut for the driveway and carport. The proposed development will require excavations to a maximum depth of ~0.5m for the house and ~1.2m for the 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 angles of <5°. Between the road frontage and the house is a gently sloping lawn. The one storey brick house is supported on brick walls and brick piers. No significant signs of movement were observed in the supporting walls and the supporting brick piers stand vertical. A stripped concrete driveway runs from the road frontage to a carport on the SE corner of the property. A low excavation of ~0.5m has been made in the slope to create a level platform for the driveway and carport. E of the house is a single storey fibro secondary dwelling supported on concrete piers. A gently sloping lawn extends off the E side of the house to the E common boundary. Competent Medium Strength Sandstone outcrops through the lawn in places. 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.

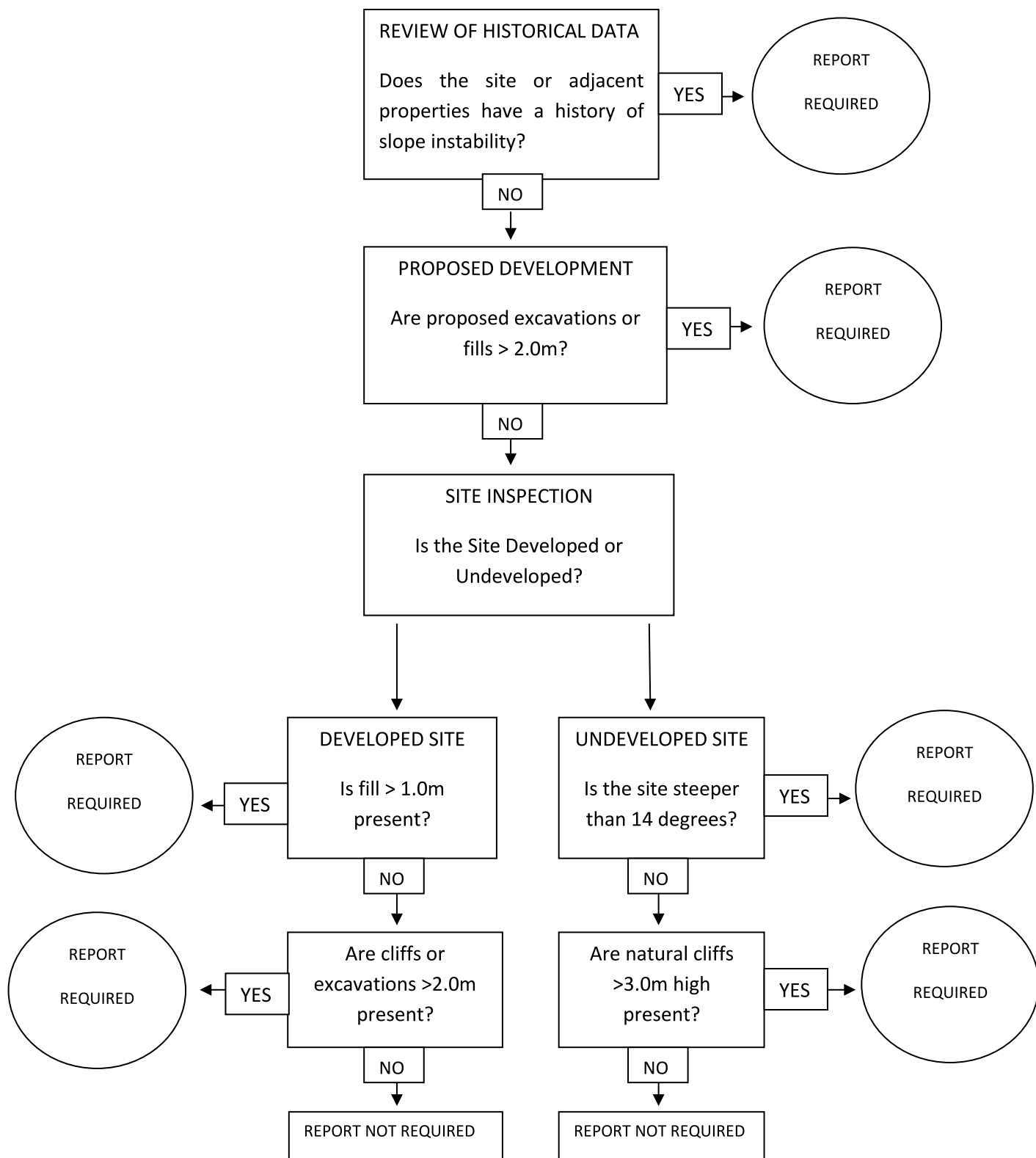
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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.
