

PRELIMINARY GEOTECHNICAL ASSESSMENT:

27 Marinella Street, Manly Vale

1.0	LANDSLIP RISK CLASS (<i>Highlight indicates Landslip Risk Class of property</i>)
<input type="checkbox"/>	<i>A - Geotechnical Report not normally required</i>
<input checked="" type="checkbox"/>	<i>B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>C - Geotechnical Report is required</i>
<input type="checkbox"/>	<i>D - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>E - Geotechnical Report required</i>

2.0 Proposed Development

- 2.1** Construct an extension to the uphill side of the house.
- 2.2** Construct a carport off the uphill side of the house.
- 2.3** Construct a new pergola off the downhill side of the house.
- 2.4** Various other minor internal and external alterations and additions.
- 2.5** Apart from those for footings, no excavations are required. No fills are shown on the plans.
- 2.6** Details of the proposed development are shown on 18 drawing prepared by Legend Design Studio, project number 21027, drawings numbered A00 to A17, dated 4.11.22.

3.0 Site Location

- 3.1** The site was inspected on the 17th November, 2022.
- 3.2** This residential property is on the low side of the street and has a SW aspect. It is located on the gentle to moderately graded upper reaches of a hillslope.

Competent Medium Strength Sandstone was observed outcropping and stepping 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 two small fills to landscape the property. The proposed development will not alter the block further.

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 upper half of the property at very gentle angles before falling at an average angle of $\sim 11^\circ$ to the lower common boundary. A concrete driveway runs to a carport attached to the N side of the house. In between the road frontage and the house is a near level lawn area. The part-two storey brick house is supported on brick walls. The external brick walls showed no significant signs of movement. Some of the walls of the house were observed to be supported directly off outcropping Medium Strength Sandstone. Access to the internal foundation space of the house was unavailable at the time of inspection. A terraced level lawn area extends off the downhill side of the house to the lower common boundary. Two low retaining walls <0.6m high support the fills for these lawns. The area surrounding the house is mostly lawn covered with some paving. No significant 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. No geotechnical hazards that could impact on the subject property were observed on the surrounding neighbouring properties as viewed from the subject property and the street.

RECOMMENDATIONS ON THE NEXT PAGE

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.



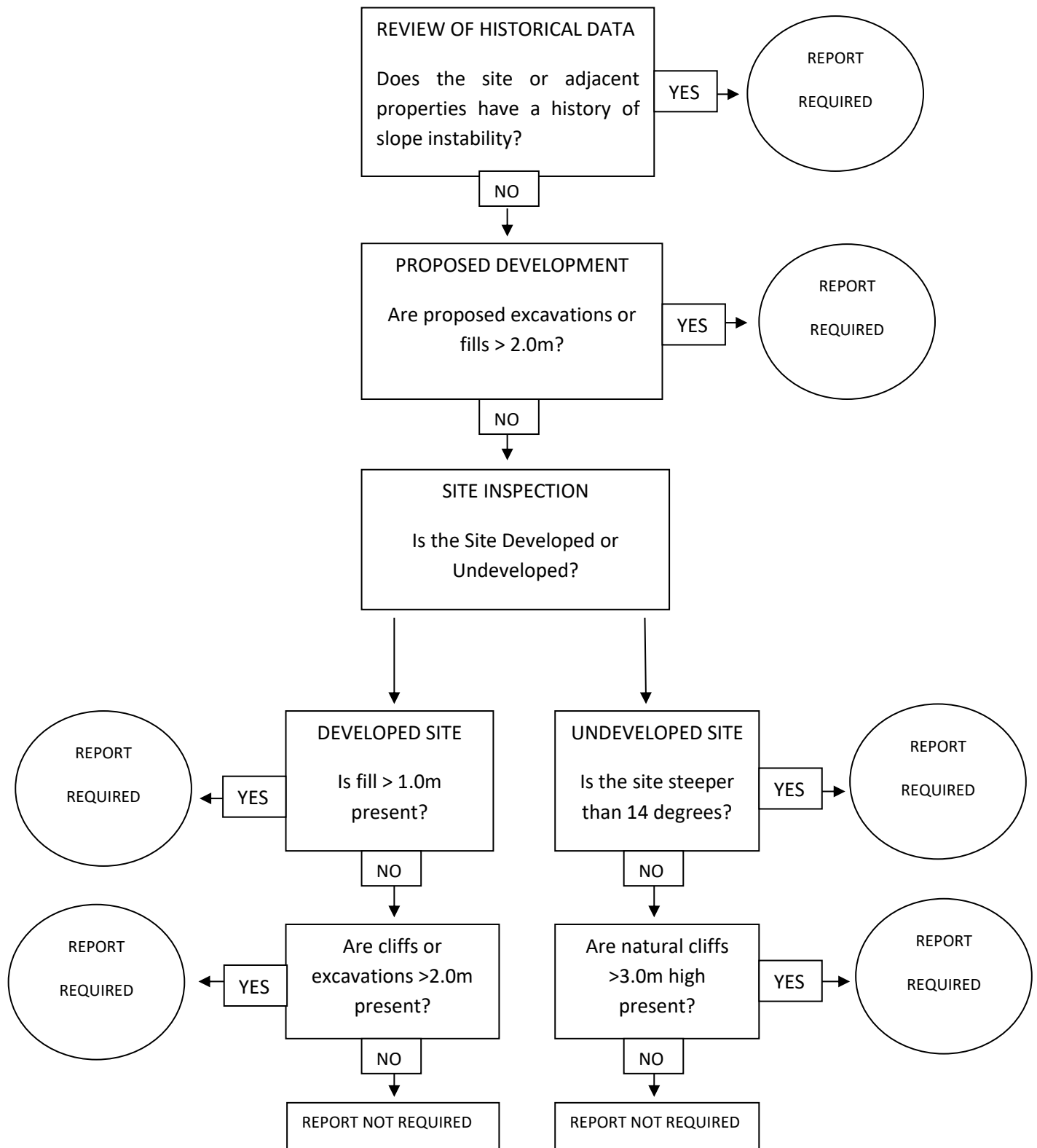
Tyler Jay Johns
BEng (Civil)(Hons),
Geotechnical Engineer.

Reviewed By:



Ben White M.Sc. Geol.,
AusIMM., CP GEOL.
No. 222757
Engineering Geologist.

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.
