

PRELIMINARY GEOTECHNICAL ASSESSMENT:

134 Clontarf Street, North Balgowlah

1.0	LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)
☐	A - Geotechnical Report not normally required
☒	B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
☐	C - Geotechnical Report is required
☐	D - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
☐	E - Geotechnical Report required

2.0 Proposed Development

- 2.1** Extend the ground floor of the existing house on the downhill side.
- 2.2** Various other minor internal and external alterations to the existing house.
- 2.3** Construct a new deck with roof on the N side of the house.
- 2.4** Demolish and replace the existing driveway.
- 2.5** No significant excavations or fills are shown on the plans.
- 2.6** Details of the proposed development are shown on 16 drawings prepared by Your Beautiful Home, drawings numbered 01 to 03, MOD100, MOD111, MOD121, MOD141, MOD200, MOD210, MOD220, MOD230, MOD300, MOD400, MOD500 and MOD600 Revision G, dated 4/8/23.

3.0 Site Location

- 3.1** The site was inspected on the 12th September, 2022.
- 3.2** This residential property is on the high side of the road and has a SW aspect. The block runs longways to the E so the slope is a cross-fall. It is located on the

moderately graded upper reaches of a hillslope. No rock outcrops on the property. The Sydney 1:100 000 Geological sheet indicates the site is underlain by Hawkesbury Sandstone that is described as a medium to coarse grained quartz sandstone with very minor shale and laminite lenses. Sandstone bedrock is expected to underlie the surface at relatively shallow depths. The natural surface of the block has been altered with cuts for the existing pool and house, and fills for lawn areas. 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 rises across the property at an average angle of $\sim 10^\circ$. The property is accessed by a bitumen right of carriageway (ROW). A concrete driveway runs from the ROW to a garage on the lower ground floor of the house. A pool that shows no significant signs of movement is located on the downhill side of the house. Fill provides level platforms for lawn areas on the downhill side of the pool and the N side of the house. The fills are supported by concrete block, sandstone block and rendered masonry retaining walls up to $\sim 2.2\text{m}$ high. The majority of the concrete block retaining wall was obscured by vegetation and could not be adequately assessed. The visible portions of the walls appear to be stable.

The part two storey rendered masonry house with garage is supported by masonry walls and a concrete slab. The external supporting walls show no significant signs of movement. A cut provides a level platform for the uphill side of the house. A stable timber retaining wall up to $\sim 1.5\text{m}$ high supports the cut. The area surrounding the house is mostly lawn or garden 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.

White Geotechnical Group Pty Ltd.



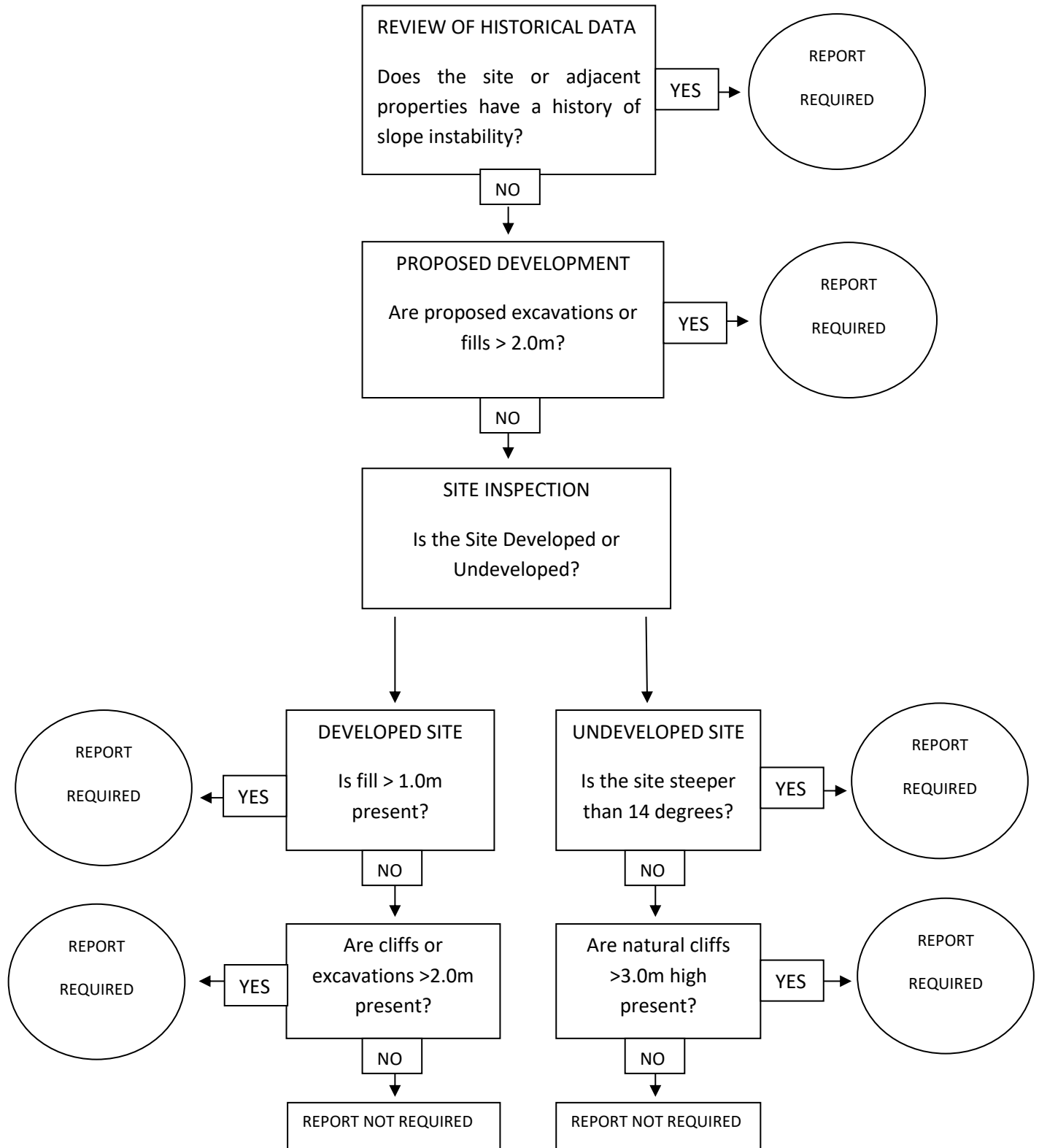
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Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



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.
