PRELIMINARY GEOTECHNICAL ASSESSMENT:

30 Cumberland Avenue, Collaroy

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 Enclose existing upper floor balcony on the downhill side of the house.

2.2 Apart from those for footings, no excavations are required. No fills are shown on the plans.

2.3 Details of the proposed development are shown on 10 drawings prepared by Shelter Building Projects, job number 21005, drawings numbered DA-0000, DA-0001, DA-0100, DA-1000, DA-2000, DA-2001, and DA-4000, dated 23/3/22.

3.0 Site Location

3.1 The site was inspected on the 29th March, 2022.

3.2 This residential property on the high side of the road and has a S aspect. It is located on the gently graded lower reaches of a hillslope. The Sydney 1:100 000 Geological sheet indicates the site is underlain by the Newport Formation of the Narrabeen Group. This is described as interbedded laminite, shale and quartz to lithic quartz sandstone. The natural surface of the block has been altered with a cut to create a level platform for the house and level lawn and for the pool. Filling has been

placed to level the lawn area on the uphill side of 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 rises across the property at an average angle of <5°. At the road frontage, a concrete driveway runs up the slope to a garage underneath the downhill side of the house. In between the road frontage and the house is a gently sloping lawn area. The two-storey rendered brick house is supported on brick walls. The external supporting brick walls show no significant signs of movement. Access to the internal foundation space of the house was unavailable at the time of inspection. A stable, ~0.8m high rendered brick retaining wall supports a cut to create the level platform for the patio and house on the uphill side of the property. A pool has been partially cut into the slope on the uphill side of the property. No significant movement was observed in the concrete shell of the pool. A level lawn area extends from the uphill side of the house to the upper common boundary. A stable ~0.6m timber retaining wall lines the upper common boundary and supports a cut for the level lawn area. The area surrounding the house is mostly lawn covered and paved. No significant 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.

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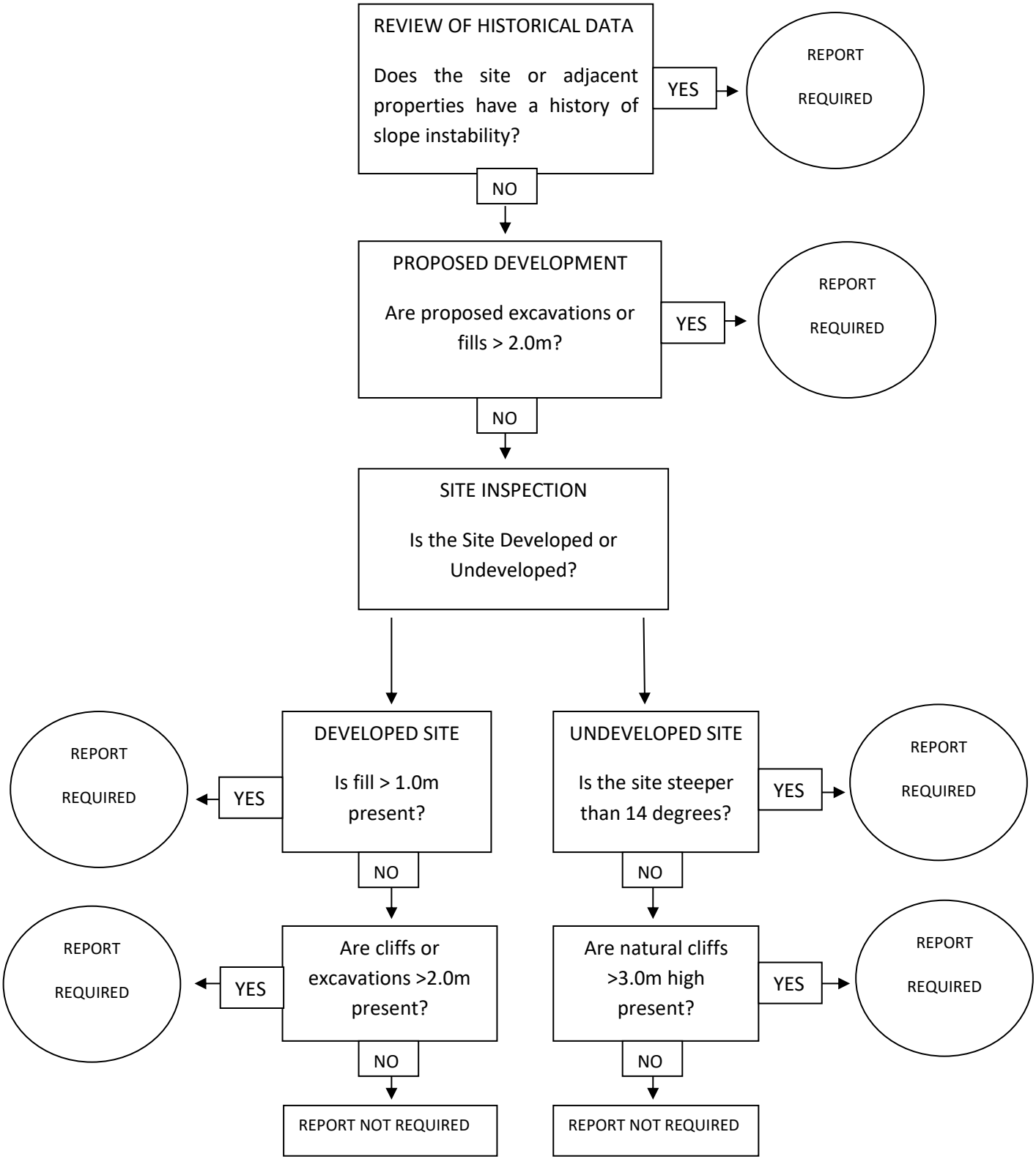
Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



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.