J1890B.
23rd May, 2019

30 Mactier Street, Narrabeen

Geotechnical Comments for New DA.

We have reviewed the preliminary geotechnical report done by this firm for a previous DA and the 2 plans for a new DA by High Design, drawings numbered 1-2 and 2-2 846 19 HD, dated May, 2019.

The new DA includes:

- Converting the lower ground floor of the existing house into a secondary dwelling.

The new proposed works for this DA have not increased the geotechnical risk, are considered minor from a geotechnical perspective, and do not alter the recommendations in the original report carried out by this firm numbered J1890 and dated the 13th August, 2018.

White Geotechnical Group Pty Ltd.

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PRELIMINARY GEOTECHNICAL ASSESSMENT:

30 Mactier Street, Narrabeen

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 Construct an addition and new roof 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 2 drawings prepared by High Design, drawings numbered 1-2 and 2-2 797 18 HD, dated July, 2018.

3.0 Site Location

3.1 The site was inspected on the 9th August, 2018.

3.2 This residential property is on the high side of the road and has a N aspect. It is located on the gentle to moderately graded lower reaches of a hillslope. No rock outcrops on the property. 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 during its development to date with excavations for the garage, house, and pool. The proposed development will not alter the surface 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 ~9°. At the road frontage, a brick and concrete driveway runs to a stable sandstone block and brick garage on the downhill side of the property, and to a timber framed carport on the downhill side of the house. The cut for the garage is supported by a stable ~1.3m high treated timber retaining wall. The part two-storey brick, sandstone block, and weatherboard clad house is supported on brick and sandstone block walls and brick piers. No significant signs of movement were observed in the external supporting walls and most of the supporting brick piers stand vertical. Several acro props have been installed in the foundation space of the house. It appears remedial works are underway to replace the existing brick piers. A cut has been made in the slope to create a level platform for the house. It is supported by a stable stack rock retaining wall ~1.0m high. A pool has been cut into the slope near the upper boundary. The water level of the pool indicates no ground movement has occurred in the shell of the pool since its construction. The land surface surrounding the house and pool is lawn-covered with some paved areas. No signs of movement related to 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.

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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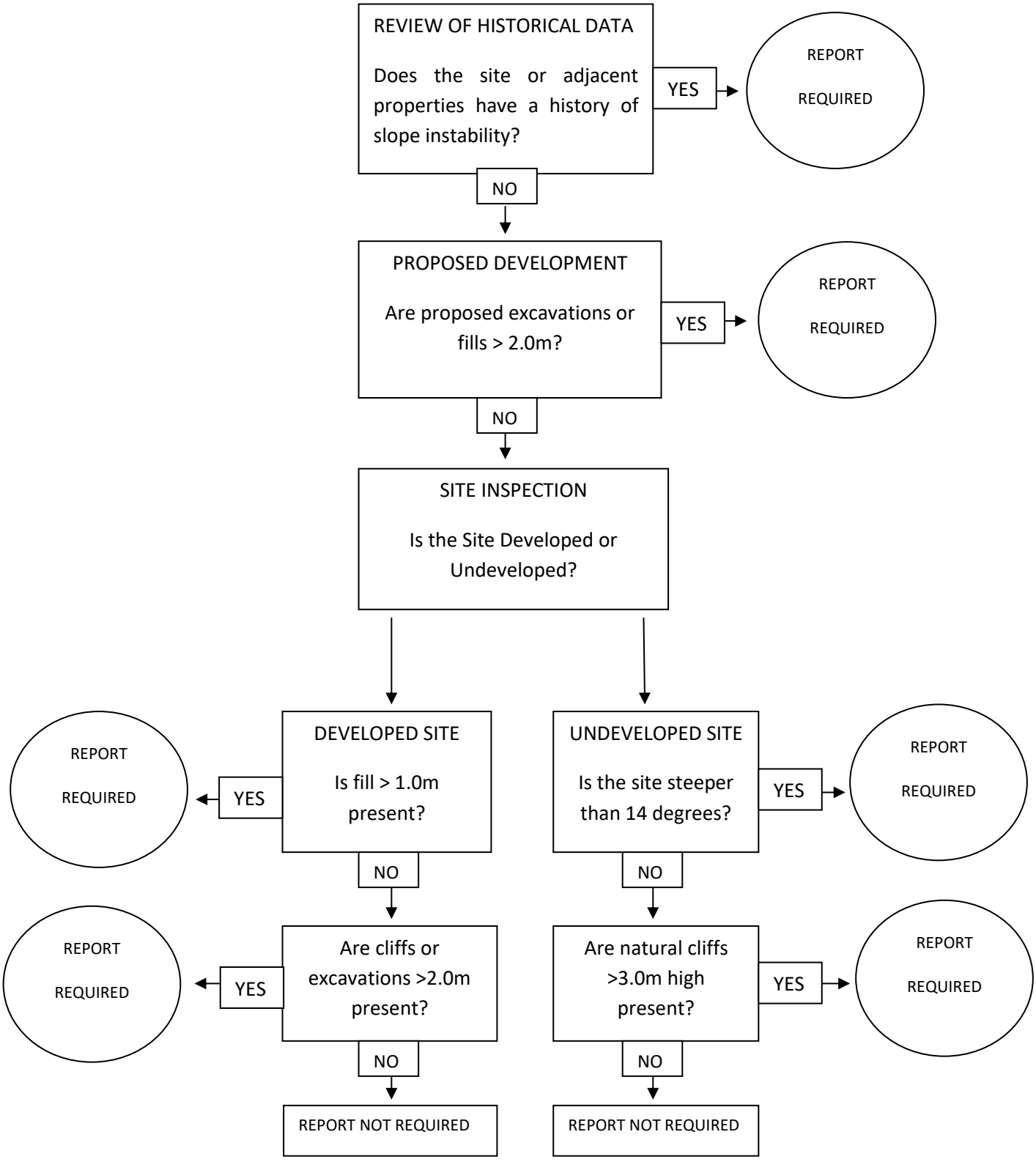
Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



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.