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PRELIMINARY GEOTECHNICAL ASSESSMENT:

13 Lyly Avenue, Allambie Heights

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 Install a new pool on the downhill side of the property by excavating to a maximum depth of ~1.0m.
- **2.2** No fills are shown on the plans.
- 2.3 Details of the proposed development are shown on 5 drawings prepared by Premier Pools, Reference number wood_151220, drawings numbered ILA-6777-1 to ILA-6777-5, dated October 2020.

3.0 Site Location

3.1 The site was inspected on the 14th January, 2020.

3.2 This residential property is on the low side of the road and has an E aspect. It is located on the gentle to moderately graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops on the downhill 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 filling



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used for landscaping across the property. The proposed development will require an excavation for the new 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 site at an average angle of ~10°. At the road frontage, a bitumen and brick-paved driveway runs past the N side of the house to a stable brick and clad garage in the NE corner of the property. The fill for the road is supported by a stable ~1.2m high concrete crib retaining wall. Between the road frontage and the house is a gently sloping lawn. The part two-storey brick and timber framed and clad house is supported on brick walls. The supporting walls display no significant signs of movement. A gently sloping lawn-covered fill extends off the downhill side of the house. The fill is supported by a stable concrete block and brick retaining wall ~1.0m high. Another gently sloping lawn extends off the base of this wall to the lower common boundary. Competent Medium Strength Sandstone outcrops through this lawn. The area surrounding the house, driveway, and garage is mostly lawn-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 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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White Geotechnical Group Pty Ltd.

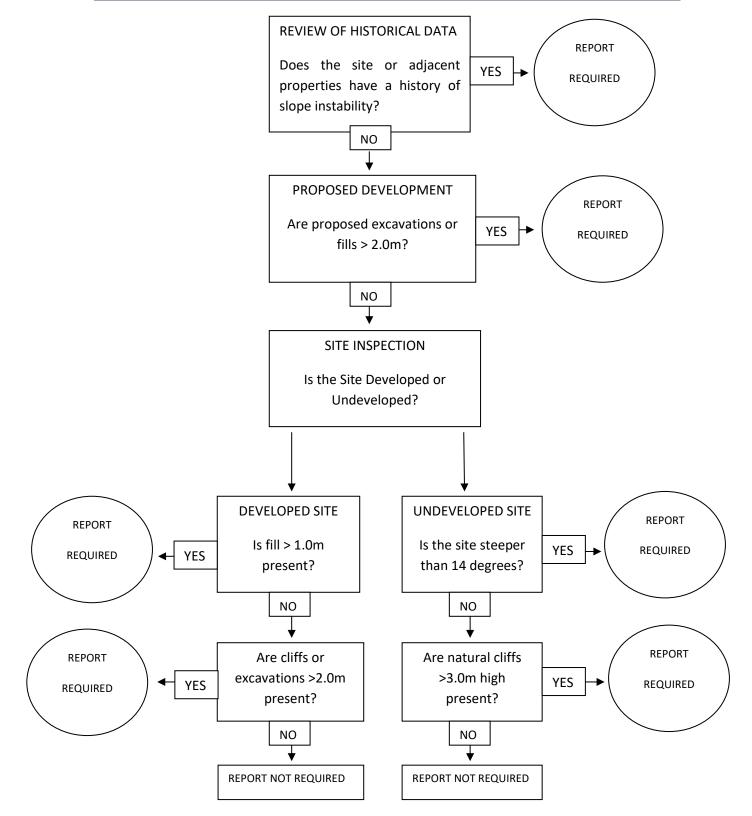
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Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)





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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.