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PRELIMINARY GEOTECHNICAL ASSESSMENT: 29 Hill Street, Queenscliff

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 Demolish the existing house and construct a new part three-storey house by excavating to a maximum depth of ~1.4m.
- **2.2** No fills are shown on the plans.
- 2.3 Details of the proposed development are shown on 19 drawings prepared by Chrofi, project number 22031, drawings numbered A-DA-000 to A-DA-007, A-DA-101 to A-DA-104, A-DA-151 to A-DA-153, A-DA-201 to A-DA-203, A-DA-301, and A-DA-901, Revision 01, dated 4/12/23.

3.0 Site Location

- **3.1** The site was inspected on the 3rd January, 2024.
- 3.2 This residential property is on the high side of the road and has a N aspect. It is located on the gently graded upper reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops and steps up 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 for a lawn area



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on the downhill side of the property. The proposed works will require excavations to

a maximum depth of ~1.4m to construct the proposed house.

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°. Between the road

frontage and the house is a lawn-covered fill. The fill is supported by a rough but stable

mortared stack rock retaining wall that will be demolished as part of the proposed works.

Competent Medium Strength Sandstone outcrops through the E side of this lawn. The single-

storey brick and timber framed and clad house is supported on brick walls and piers. The

supporting walls show no significant signs of movement and the supporting piers stand mostly

vertical. Some of the supporting walls and piers were observed to be supported directly onto

outcropping Medum Strength Sandstone. The house will be demolished as part of the

proposed works. A gently sloping lawn surrounded by garden beds extends off the uphill side

of the house to the upper common boundary. The area surrounding the house is mostly lawn

or garden covered with some paved areas. No signs of movement related to slope instability

were observed on the grounds. The adjoining neighbouring properties were observed to be

in good order as seen from the street and subject property.

5.0 Recommendations

The proposed development and site conditions were considered and applied to the current

council requirements. See the required inspection below that is to be carried out during

construction and is a requirement for the final geotechnical certification. Apart from the

inspection, it is not expected additional geotechnical input will be required provided good

design and building practices are followed.



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6.0 Inspection

The client and builder are to familiarise themselves with the following required inspection as well as council geotechnical policy. We cannot provide geotechnical certification for the owners or the regulating authorities if the following inspection has not been carried out during the construction process.

 All footings are to be inspected and approved by the geotechnical consultant while the excavation equipment and contractors are still onsite and before steel reinforcing is placed or concrete is poured.

White Geotechnical Group Pty Ltd.

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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.