

Ref: SRE/481/FF/19

14th March 2019

Attn: Brendon Moulton

52 Tallowood Way,
Frenchs Forest, NSW 2086

Dear Brendon,

RE: - PRELIMINARY GEOTECHNICAL ASSESSMENT FOR PROPOSED ALTERATIONS AND ADDITIONS AT 52 Tallowood Way, Frenchs Forest, NSW 2086 - PRELIMINARY GEOTECHNICAL ASSESSMENT

Further to the email received on the 13th of March 2019, Soilsrock Engineering was commissioned to carry a preliminary geotechnical assessment of the site conditions and give recommendations regarding the proposed development above.

1. INTRODUCTION

The present report describes the geotechnical assessment carried following the requirements of Northern Beach Council - Warringah, according with Clause E10 of Warringah Development Control Plan (DCP 2011), and the Warringah Local Environmental Plan 2011 (WLEP 2011) Map which identifies the Landslip Risk Classes as per **Table 1** below.

Table 1 – LANDSLIP RISK CLASSES A TO E

Thick Box	LANDSLIP RISK CLASS (thick box indicates Landslip Risk Class of Property)
<input type="checkbox"/>	A Geotechnical Report not normally required
<input checked="" type="checkbox"/>	B Preliminary assessment of site conditions required to determine whether a geotechnical report is required.
<input type="checkbox"/>	C Geotechnical Report required
<input type="checkbox"/>	D Preliminary assessment of site conditions required to determine whether a geotechnical report required
<input type="checkbox"/>	E Geotechnical Report required

The site inspection was carried on 14th of March 2019 to access existing site conditions. Details of the proposed development are shown on the architectural drawings prepared by Pergola Land, which are part of the DA submission.

- Sheet No.: 1 "SITE PLAN", date 06/02/2019
- Sheet No.: 2 "PLAN AND ELEVATION", dated 06/02/2019

2. SITE LOCATION

The subject site is situated inside the Zenith Garden Estate, facing opposite to Carnarvon Drive to its south, surrounded by houses No. 54 Tallowood Way to its west side, 50 Tallowood Way to the North and 23 Carnarvon Drive to the East.

3. PROPOSED DEVELOPMENT

The development proposes to construct and install a Pergola attached to the dwelling via roof brackets supported by metal posts to the existing slab, which will be placed on the lower section of their backyard.

4. EXISTING SITE DESCRIPTION

The subject site is known as Lot/Section plan: 10/DP285537, 52 Tallowood Way, Frenchs Forest, which is in a rectangular shape with approximately 571.0m² in total site area surrounded by brick and paling fences.

The residential dwelling is a two-storey brick house in good condition for its age. The house is located on a slope, the entrance has a concrete driveway and the back yard which has an elevated section area of around 1m high from the house and from the purposed pergola installation area. This elevated area is supported by an existing stone retaining wall, where a small portion will be excavated to construct and install the pergola. This area is a stabilised ground planted with shrubs and covered by grass and small trees. Site rear area is fenced from the Carnarvon Drive.

From the analyses of Sydney 1:100 000 Geological Map, it is indicated the site is underlain by Hawkesbury Sandstone (Rh) which can be describe as sandstone, quarte with some shale.

The site is slopping down from south to north with approximately 5°-25°, no evidence of important cracks and/or settlements were observed, no evidence of slope instability was identified at the time of the inspection and no geotechnical hazards that could impact on the subject property were observed on the surrounding neighbouring properties by external cursory visual inspection.

5. RECOMENDATIONS

Further to the analyses of the Council Checklist Flowchart attached on the Appendix 1 and on this preliminary assessment, the proposed upper floor extension, it is considered to be satisfactory from a geotechnical and landslip perspective subject to the application of good engineering practice. No further detailed geotechnical report is required.

However, it is recommended to carry further geotechnical site inspection by a competent professional geotechnical engineer, to confirm the footings of the pergola are founded in a competent and solid soil or rock foundations suitable to take the compression and tension loads of the proposed pergola and any wind loads considered.

Please do not hesitate to contact the undersigned if you have any questions regarding this letter report or if you require further assistance.

Yours faithfully,
For and on behalf of
Soilsrock Engineering Pty Ltd



Jorge Cabaco
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Principal Geotechnical Engineer
ENGINEERS AUSTRALIA
CHARTERED ENGINEER | NER NATIONAL ENGINEERS REGISTRATION No. 3789414

Appendix 1 – Checklist Flow Chart for Council's Assessment of Site Conditions and Need for Geotechnical Report in Landslip Risk Classes B and D

APPENDIX 1

CHECKLIST FLOW CHART FOR COUNCIL'S ASSESSMENT OF SITE CONDITIONS AND NEED FOR GEOTECHNICAL REPORT IN LANDSLIP RISK CLASSES B AND D

