

Ref: SRE/688/BC/20

3<sup>rd</sup> August 2020

Attn: Michael Maruca

37 Dareen Street,  
Beacon Hill, NSW 2100

Dear Michael,

**RE: PRELIMINARY GEOTECHNICAL ASSESSMENT FOR PROPOSED ADDITIONS & ALTERATIONS AT 37 DAREEN STREET, BEACON HILL NSW 2100 - PRELIMINARY GEOTECHNICAL ASSESSMENT**

Further to the email received on the 29<sup>th</sup> of July 2020, 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 30<sup>th</sup> of July 2020 to access existing site conditions. Details of the proposed development are shown on the architectural drawings prepared by “Designed 2 You - Building Design” Rev. A dated XX/07/2020, which are part of the DA submission.

- Sheet No.: DA0.01 “COVER SHEET”
- Sheet No.: DA1.01 “PLAN AND ELEVATION”
- Sheet No.: DA1.02 “EXISTING / DEMOLITION PLAN”
- Sheet No.: DA2.01 “PROPOSED PLANS”
- Sheet No.: DA3.01 “SITE ELEVATIONS – NORTH & SOUTH”
- Sheet No.: DA3.02 “SITE ELEVATIONS – EAST & WEST”
- Sheet No.: DA4.01 “SECTION A-A”

## **2. SITE LOCATION**

The subject site is situated in 37 Darren Street, Beacon Hill, facing opposite to Darren Street to its North, surrounded by houses No. 35 Dareen Street to its East side, 39 Dareen Street to the West and 36 Dareen Street to the North.

## **3. PROPOSED DEVELOPMENT**

The development proposes to construct and install a proposed extension attached to the dwelling via the entrance of the existing residence, which will be placed on the lower section of the entrance.

## **4. EXISTING SITE DESCRIPTION**

The subject site is known as Lot/Section plan: 1/DP206508, 37 Dareen Street, Beacon Hill, which is in a rectangular shape with approximately 790.4m<sup>2</sup> in total site area surrounded by brick dwelling and side fences.

The residential dwelling is a two-storey brick house in good conditions for its age. The house is located on a slight 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 proposed extension building area. This area is a stabilised ground planted with shrubs and covered by grass and small trees. Site rear area is fenced from nearby neighbours.

From the analyses of Sydney 1:100 000 Geological Map, it is indicated the site is underlain by Hawkesbury Sandstone (Rhs) which can be describe as shale and laminate.

The site is slopping down from West to East 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 building 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 extension building are founded in a competent and solid soil or rock foundations suitable to take the loads of the proposed development.

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**

BEng MEng MIEAust CPEng RPEQ NER

**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

