

The Property Owners
c/- Milos Stefan Carkic
Dylan Farrell Design
54 William Street
Paddington, NSW 2021

GEOTECHNICAL ASSESSMENT OF EXCAVATION

7 Rock Bath Road, Palm Beach NSW

Ascent Geotechnical Consulting Pty Ltd (Ascent) carried out a limited visual assessment at 7 Rock Bath Road, Palm Beach NSW (the “Site”), on the 27th & 28th November, 2019, in relation to excavations and earth works that are underway for alterations and additions under DA2018/2029 & Section 455 Modifications Mod2019/0515.

At the time of our site assessment a significant amount of the fill had been relocated from near the road, up to the ground floor level fill. A sandstone platform was identified extending back into the slope, approximately 2-3m back from the kerb. No rock was identified in between the kerb and the rock platform. It is likely that this platform will extend back into the slope and rise up to the rear boundary in a series of relatively low benches or terraces.

It is our opinion that sandstone bedrock will be encountered at relatively shallow depths in the area in between the exposed rock platform and the kerb.

The remaining brick walls of the house, can be seen to be founded directly on an exposed Hawkesbury Sandstone terrace that extends approximately north-west south-east along the rear of the block. A small section of the escarpment is undercut, with the cavity currently filled with sandy clay. We would suggest that permanent support be installed for the cantilever arm. This support might be in the form of a number of small piers, or mass concrete infill, vibrated into the void.

The Hawkesbury Sandstones identified on site are considered appropriate for new footings, provided the weathered surface is scraped back to expose a clean fresh surface. No new footings are placed upon undercut sections of rock. We would also recommend that to mitigate the risk of shear fracture of the rock, any new footings be kept at minimum 300mm from the edge of any natural rock escarpment.

No new footings are to be founded on the disturbed fill. If the existing disturbed fill is to be retained for use on site, the recommendations provided in Section 10.3 of the original geotechnical assessment are to be adhered to.



AG 19223 – 2nd December, 2019

7 Rock Bath Road, Palm Beach NSW

For footings founded on fully cleaned **Hawkesbury** Sandstone bedrock, an allowable bearing pressure of 1000 kPa, and a site classification of “A” are considered appropriate for foundation design.

All new footings are to be inspected by Ascent prior to the installation of steel and concrete. Failure to arrange the required foundation material assessments will prevent Ascent from being able to issue the Form 3 for Occupation certificate, required by Northern Beaches Council.

If you have any questions or require any clarification, please call **Ben Morgan** on **0448 255 537**

For and on behalf of, **Ascent Geotechnical Consulting Pty Ltd,**

Ben Morgan BSc Geol.
Engineering Geologist