



LRT

Report TGE21204

12 March 2012

Mrs. Sue Burgess  
3 Patey Street  
**DEE WHY NSW 2099**

Dear Madam,

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**LETTER REPORT ON PRELIMINARY GEOTECHNICAL ASSESSMENT  
PROPOSED RESIDENTIAL DEVELOPMENT  
3 PATEY STREET DEE WHY**

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This letter details the results of a preliminary geotechnical assessment undertaken at 3 Patey Street Dee Why. Max Lanser Architect Pty Ltd requested the inspection on behalf of the property owner. The inspection was made in order to comply with a directive from Warringah Council for a preliminary geotechnical assessment to be carried out for submission with the development application.

It is understood that the development will comprise construction of a new tandem carport in the north eastern section of the site. The aim of the inspection was to provide an assessment of site stability and any affect the proposed development may have. The inspection was carried out by Lachlan Taylor of Taylor Geotechnical Engineering Pty Limited on Wednesday 29 February 2012.

The site is a single block, located on the eastern side of Patey Street in Dee Why and is bounded by neighbouring properties to the north, south and east. The ground slope falls to the north east and north with average natural ground slopes of up to 5 degrees across the site. A single storey brick and tile residence is located in the western half of the site, which at the time of inspection was undergoing redevelopment. The front yard is well grassed as is the rear half of the site.

Reference to the Sydney 1:100,000 Geological Sheet indicates that Hawkesbury Sandstone, of the Triassic Period, underlies the site. The Hawkesbury Sandstone formation typically comprises medium to coarse grained quartz sandstone with very minor shale and laminite lenses. The rocks of this formation typically weather to form low and moderately reactive sandy clay soils but highly reactive clay soils are possible.

Assessment of the site has been made in accordance with the methods and requirements as outlined by the Australian Geomechanics Society "Landslide Risk Management", Australian Geomechanics Journal Vol 42, No 1, March 2007, and Section E10 of Warringah Councils DCP 2011.

It is understood that the tandem carport will be constructed on grade, thus requiring very minor excavation. The details of the carport development are shown on Max Lanser Architect Pty Ltd Drawing No. 2012/02 Sheet 1.

Based on the results of the inspection of the site and surrounds, the site appears to be stable with no evidence of recent movement or past instability. The proposed development and its impact on the site and surrounds has been assessed and it is considered that the proposed development will not create an unacceptable risk of instability to this or adjoining sites and is appropriate for the site. As such, in accordance with Section E10 of Warringah Councils DCP 2011, a full geotechnical investigation and report is not required for submission with the development application.

Should you require any additional information please contact the writer at this office.

**TAYLOR GEOTECHNICAL ENGINEERING PTY LIMITED,**



**Lachlan Taylor** MIE Aust. CPEng. NPER.  
Principal Geotechnical Engineer