





Job No: 12170/1

Our Ref: 12170/1-AB Revised

2 December 2009

Cardno (NSW) Pty Ltd Level 3 910 Pacific Highway GORDON NSW 2072

Attention: Mr R Clark

Dear Sir

re: Potts Hill Residential Estate, Potts Hill

Concept Design - Phase 1

Preliminary Geotechnical Assessment

Further to recent discussions, it is understood that a geotechnical report, assessing the suitability of the site for the proposed uses, slope stability, erosion hazard, proposed earthworks and retention methods, is required to inform a project application submission to the Department of Planning and to respond directly to the Director General Requirements.

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The following geotechnical services have been completed:

- Review of geotechnical reports completed by other geotechnical consultants for the site known as the western residential precinct. This review was carried out for Landcom, with details in Report 11990/1-AA dated 2 February 2009. The review also included a site inspection by an Engineering Geologist.
- Submission of a Phase 1 Interim report for the concept design for the proposed residential subdivision. This report was commissioned by Cardno and the final report (12170/1-AA Interim) was submitted on 18 November 2009. Interim report details a site works strategy suitable for development of the site into a residential subdivision.

Future geotechnical services:

- Geotechnique has been commissioned by Cardno to complete a geotechnical investigation of the site, to recover sub-surface soil samples and conduct a series of laboratory and site tests. The results of this testing will be used for preparation of the final geotechnical report, which would be used as a basis for development of erosion and sediment plans and a soil and water management plan. This work is yet to be completed.
- Geotechnique has also been commissioned by Cardno to conduct a Phase 2 Detailed design
 investigation, targeting design of roads and retaining walls. This work is yet to be completed and will
 be carried out after finalisation of the concept design.

Based on information obtained to date and our experience with this site and similar developments, we are of the opinion that:

- New earthworks formations can be designed to ensure slope stability is appropriately managed and the risk of slope instability is very low.
- Erosion hazard will be reduced by using an erosion and sediment plan and soil and water management plan.

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- The suitability of the proposed site works strategy would be confirmed on completion of investigation and preparation of the final report.
- Design of the proposed retaining walls would be carried out based on the Phase 2 geotechnical report, though information reviewed to date suggests that appropriate bearing capacities will be achievable.

In summary, based on the above, we can confirm that the site is suitable for its proposed residential land usage.

If you have any questions, please do not hesitate to contact the undersigned.

Yours faithfully GEOTECHNIQUE PTY LTD

EMGED RIZKALLA Director