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Our Ref.: VCC/Village 1/ JCN/ Feb 2016

26th February 2016

RIEL & ASSOCIATES
170 Peter brown Drive
Montrose
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By e-mail: richard@riel.co.za

ATTENTION: MR R KELLAND

Dear Sir

GEOTECHNICAL INVESTIGATION FOR THE DELVELOPMENT OF THE MOTHER & CHILD HOSPITAL AT VILLAGE 1, VICTORIA COUNTRY CLUB ESTATE, MONTROSE, PIETERMARITZBURG

Jeffares & Green (Pty) Ltd and their subsidiary company Terratest (Pty) Ltd have been involved in the assessment of the geotechnical conditions at the Victoria Country Club Estate (VCC) Pietermaritzburg, since 2004. We were involved in the early planning and environmental application for the estate, and later for investigations for each village within the estate, followed by geotechnical assessments on a plot by plot basis. We therefore have an in depth knowledge of the geological conditions underlying the site.

The geology in the area of VCC is well documented and has been the subject of much discussion due the area being generally underlain by variable and complex geology which is typified by the presence of deep talus deposits, with the potential to result in instability if not adequately allowed for in the design. However, ensuring that site specific information is available, and that specialized foundation designs are implemented has enable the successful development of large residential units and multi-story offices blocks across the Estate.

The site of the proposed Mother & Child Hospital is located in Village 1 of the Estate, where previous geotechnical investigation were carried out for the planning phase of the Estate which included the drilling of a number of boreholes. The information available to date indicates that the site is underlain by talus deposits of variable thickness, which in turn are underlain by residual soils which overlie hard rock siltstone/sandstone. There is also evidence of limited dolerite intrusions in the area.

Despite the variability in the underlying geological conditions on the site, it is considered that the geotechnical parameters do not present a fatal flaw to the development of the Mother & Child Hospital on Village 1, but rather that a site specific engineered solution will be required for the foundation design. Additional geotechnical investigations will be required at the site to supplement the information from the earlier studies, and to enable the optimum engineered solution to be designed.

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Member Firm: Consulting Engineers South Africa (CESA).
Jeffares & Green is a level 2 B-BBEE contributor and is ISO 9001:2008 certified



We trust that the above information is adequate for the support of the environmental and town planning applications.

Yours Faithfully,

J C NORRIS
DIRECTOR
for: **JEFFARES & GREEN (PTY) LTD**