

B4 CERTIFICATE



Council for Geoscience

APPENDIX B.B4¹

Comment:

The CGS supports the enrolment of Irene Extension 70, conditionally.
Please refer to attached letter, dated 10 December 2007.

Signature of Council for Geoscience:

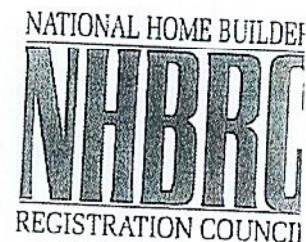
Date: 10 December 2007

Name of authorized persons: G.J. Heath

Designation: Engineering Geosciences Unit

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1. Co-signing of the B4 form does not necessarily imply that the Council for Geoscience is either (a) in (full) agreement with the engineering geological report or (b) is of the opinion that the development proposal constitutes an acceptable development risk. ALL parties are requested to read the attached comment.

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104 Bordeaux Drive
Bordeaux
Randburg 2194
PO Box 461
Randburg 2125
Tel (011) 886-3636
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APPENDIX B.B4 (Appointment of Competent Person: Dolomitic / Limestone Areas)

DESCRIPTION
OF AREA

PART OF RE OF PORTION 335 OF THE
FARM DOORNKLOOF 391-JR

REPORT NO.

NGI 4063R

REPORT DATE

24 OCTOBER 2007

TOWNSHIP

IRENE EXT 70

EXTENSION

EXT 70

REGION

CENTURION

TOTAL AREA

21 ha

DOLOMITIC / LIMESTONE ZONES AND EXTENT IN HECTARES (e.g. D3 - 3ha)

IRC 4/1/1(4) - D - 21 ha

HOME BUILDER'S DETAILS

NHBRC REG. NO.

4150

COMPANY NAME

M&T DEVELOPMENT

CONTACT PERSON

P.W. KRUGER

TEL 012-991-9700 FAX

COMPETENT PERSON DETAILS

NAME

D. BUTTRICK

QUALIFICATION

PHD (ENG. GEOLOGY)

YRS EXPERIENCE

26

YRS EXPERIENCE IN WORK IN DOLOMITIC AREAS

26

INSTITUTIONAL
MEMBERSHIP

SACNASP

MEMBERSHIP NO

400115/89

COMPANY NAME

NGI CONSULT CC

ADDRESS

Box 604, FOURWAYS, 2055

TEL 011-469-0854

FAX 011-469-0961

CELL 083 306 7013

PI INSURERS

SANTAM

SUM INSURED

R3,5m

INSURANCE
CERTIFICATE NO

06/254555P/4

REGISTRATION NO.

CONDITIONS

1. The above mentioned Competent Person has been appointed by the Home Builder to classify the areas underlain by Dolomites in accordance with Part 1, Section 2, Table 8, to report on the impact of the installation of boreholes/swimming pools, in accordance with Part 1, Section 2.8.2.
2. The above mentioned person undertakes, upon installation of the township services, to confirm the zone designations and to notify the NHBRC in writing of any changes in zone designations encountered during the installation of services.
3. The Council for Geoscience confirms that it has been consulted by the Competent Person, named in this form, regarding the area described, that the investigations conducted on the stability of the dolomites/limestones are in their opinion consistent with sound professional practice and that the investigations meet all legal requirements pertaining to dolomitic/limestones stability investigations.

Council for Geoscience remarks (if any).....

Veneer 70

SIGNATURE FOR COUNCIL FOR
GEOSCIENCE

DATE 12/12/2007

NAME

OF

AUTHORISED

PERSON

DESIGNATION

SIGNATURE OF HOME BUILDER

DATE

SIGNATURE OF COMPETENT



27 NOVEMBER 2007

DATE

PERSON



Council for Geoscience

Private Bag X112 Pretoria 0001 SOUTH AFRICA 280 Pretoria Street Silverton Pretoria
Reception: +27 (0)12 841 1911 Internet: <http://www.geoscience.org.za>

Our Reference: F3043
Irene Ext 70
Enquiries: G Heath
Tel: (012) 841 1165
Fax: (012) 841 1148
Email: gheath@geoscience.org.za

10 December 2007

National Home Builders Registration Council
PO Box 461
Randburg
2125

Attention: Fred Wagenaar

Dear Sir,

NHBRC ENROLMENT OF IRENE EXTENSION 70

The firm, Intraconsult has submitted the report "Report VGI 14063R: GFSH – 2 Infill Geotechnical Investigations: Irene Extension 70, Including the Zone 2 Stands" on behalf of their client, M & T Development to this office requesting comment on the suitability of this site for NHBRC enrolment.

Having reviewed the information, we submit that:

- (a) We are in broad agreement with the dolomite risk assessment. The site is classified as an Inherent Risk Class 4/1/1(4).
- (b) We support the conclusions and recommendations tabled in the report. In Section 9 it is specified that all Residential 1 Stands including Stands 3462 to 3470 and 3613 to 3618 is suitable for development with a NHBRC D3 designation. This is supported. We support the statement that all Residential 2 Stands must be specifically investigated.
- (c) We support the proposed layout plan, Irene Extension 70/3, dated 29 October 2007.

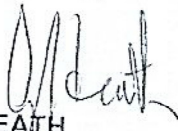
Enrolment of Irene Extension 70 is supported subject to the following conditions:

- (d) The application of **stringent water precautionary measures** for the dolomite land portion of this development is essential. The Competent Person must certify those measures implemented. Stand specific water precautionary measures must be implemented.
- (e) **The builder** must ensure and certify that the water precautionary measures prescribed by the competent persons have been implemented. **The Local Authority and the NHBRC** should satisfy themselves that this has been done.

- (f) No additional buildings and subdivisions should be contemplated.
- (g) Wet services may not be laid below structures. **The builder** must certify that they have been placed as such.
- (h) **The engineer** must recommend guttering and adequate paving around the houses, which should always be functional. All stormwater must be discharged in the municipal stormwater system. Roof water may thus not cascade off the apron and directly into the soil. The stands should be landscaped in a way that the stormwater is channeled around the house. The site must be assessed after a heavy rainstorm to check that this water flows off the site properly.
- (i) The home owners must be made aware of the risks involved in building on dolomite, and be informed about how to be vigilant and act pro-actively by applying sound water management principles.
- (j) **The Local Authority** must implement a risk management system. Commenting on the suitability of stands within its jurisdiction is based on the premise that this system will be implemented.

If you have any further queries, please do not hesitate to contact this office.

Yours faithfully,



G J HEATH

ENGINEERING GEOSCIENCE UNIT

CC: VGIconsult
P.O. Box 604
FOURWAYS
2055

Attention: Mr D Buttrick

By Fax: 011 469 0961

CC: Tshwane Metropolitan Municipality
Department Roads and Stormwater: Geology Section
Centurion Offices
P O Box 14013
Lyttelton
0140

Attention: Hannes Claasen /Ashika Sudu

By Fax: 012 358 3361