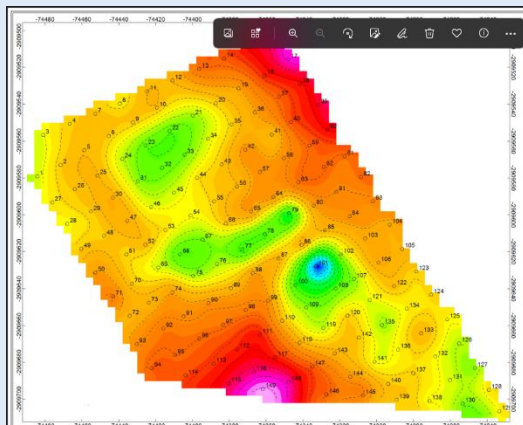


INTRODUCTION

Approximately 14% of Gauteng's surface area is Dolomitic. This means infrastructure built on such surfaces may eventually collapse due to sinkhole formations, which may not only cause damage to the infrastructure but may also result in a loss of lives.



We provide dolomite stability investigations to eliminate the risk of building on such land. The study commences with a gravity survey. The purpose of conducting the gravity survey is to measure the earth's gravitational field and then use the contrast between low density overburden and high-density bedrock to construct a contour map. This map is used to estimate the depth of the bedrock from the surface. The gravity map is then used as an aid in selecting the drilling points.



Boreholes are drilled using a percussion drilling rig. Samples from the boreholes are retrieved and bagged at 1m intervals and then logged by the assigned engineering geologist. A stopwatch is used to accurately measure the time it takes to drill each meter. The driller also records air and sample loss, an estimate of the hardness of the formation, the response of the hammer, the moisture condition and water strikes.



A report is then compiled which describes the subsurface conditions with respect to sinkhole formation. Recommendations are then made if the subsurface conditions are suitable for the proposed development.

About us:

OCTON Geological Consultants (Pty) Ltd is a privately owned company which provide a variety of environmental, mining, and geological services such as Geotechnical Investigations, Waste Management, Environmental Management and Hydrogeology. OCTON is comprised of geologists, environmental scientists, spectral geologists, mathematicians, and engineers. The blend of skills within our company makes us ready to tackle any project with ease.

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