

Client: SA Lion Park (Pty) Ltd
Value: R 600,000 (Fees)
Services: Geotechnical investigation, traffic study and bulk services design
Project Execution: 2013

Lion Park, Gauteng

Geotechnical Investigation, Traffic Study and Bulk Services Design

The Task

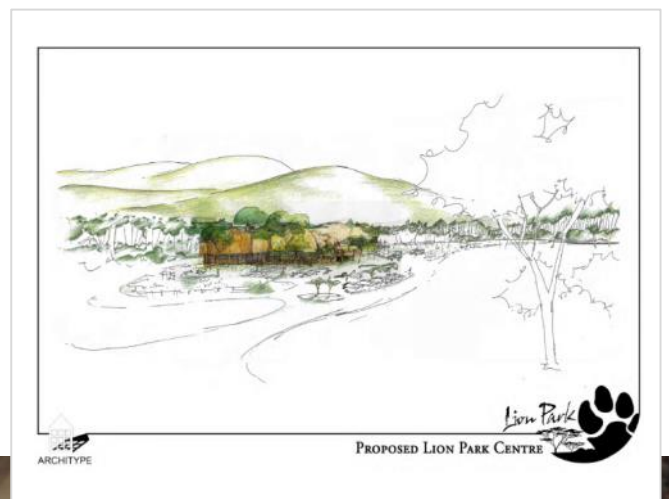
The existing SA Lion Park, located on the outskirts of Johannesburg (at time of publication; Sept 2015), was to be displaced to make way for a new housing development on the property. The proposed 650 hectare site for the new park development was located on farms Klakheuvall 492-JQ and Vlaktefontein 494-JQ, 10km south of Hartebeesport Dam (Northwest Province) and partially bordered by the Crocodile River to the north.

The new park was to feature a Main Visitor's Centre area, with shops, restaurants, children's' play area etc.; Education and Research Centre; staff accommodation area and a Bush Lodge.

Design Services

Nurizon was appointed to undertake a geotechnical investigation, traffic impact assessment and bulk services design for the new park development.

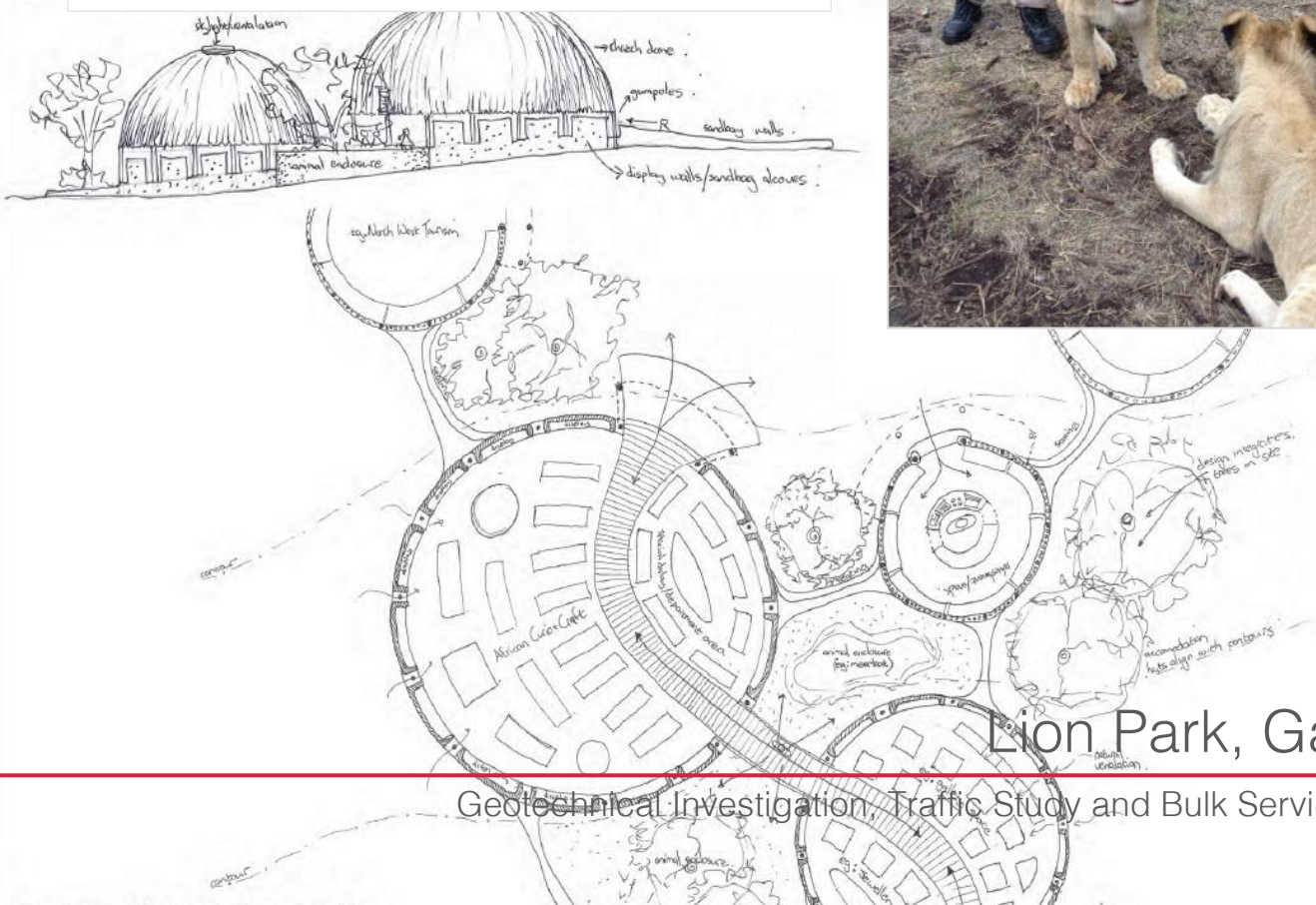
- *Geotechnical investigation:* consisting of near-surface investigation (TLB-excavated test pits), deep investigations (percussion drilling) and a dolomitic stability investigation.
- *Traffic impact assessment:* to determine the current traffic conditions and to determine the impact of the new development on traffic volumes. The impact assessment included a 7-day traffic count and review of historical traffic data for the existing facility.



- *Bulk services design:* the engineering designs included water, sewer and stormwater reticulation design and water-use licence application.

The Result

Preliminary designs for the bulk services were undertaken and submitted to the client, together with an associated cost estimate. The geotechnical investigation and dolomitic stability report were to be used for future design work, e.g. foundation design and possible material sources.



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