

● NEW SERVICE

Data Centre **Site Assessment**

We tell data centre developers early whether a site's ground and water will support a facility for 20 years or more, before they commit capital.

WHAT IT IS

Ground and water due diligence for data centres.

Data centres need stable foundations, reliable water for cooling and low flood risk. In South Africa, dolomite, water scarcity and licensing can delay or sink a project late in development.

TerraQ identifies those risks at the start, when changing sites is still cheap, and ends with a recommended layout showing where each structure can safely go.

THE PROBLEM IT SOLVES

The hard constraints are underground.

Dolomite

Large parts of Gauteng sit on dolomite, where cavities and sinkholes can open beneath a building. It must be assessed to SANS 1936.

Water for cooling

Peak cooling demand arrives on the hottest days, when municipal supply is under most strain.

Flood lines and licences

Building inside a flood line is restricted, and water use licences often sit on the critical path.

FORMAT

Consulting service in three phases

STANDARDS

SANS 1936, SANS 634, SANS 10299-4

FIRST STEP

Fixed-fee desktop screening in 2–3 weeks

— HOW IT WORKS

Stop early, or go deep.

1 Screening

2–3 weeks, fixed fee. Geology, dolomite records, groundwater archives, flood risk and municipal supply for 2 to 5 candidate sites, each rated red, amber or green.

2 Investigation

6–12 weeks per site, quoted. Gravity survey, percussion and core drilling, test pits, lab testing, borehole siting and test pumping. Ends with a recommended layout.

3 Monitoring

Monthly, through AquaWatch. Groundwater levels, abstraction and water quality, with ESG water metrics for investor reporting.

WHAT WE ASSESS

Ground, water and the paperwork.

- Dolomite stability to SANS 1936-2, with competent-person sign-off and Council for Geoscience review
- Foundations for data halls, substations and generator yards
- Water supply: borehole siting, test pumping, sustainable yield and cooling water quality
- Soil thermal and electrical resistivity for cable and earthing design
- Flood lines and licensing support, with partner specialists

BUILT FOR

- Colocation and hyperscale developers
- Cloud provider site-selection teams
- Engineering firms delivering data centre builds
- Property funds converting industrial land
- Edge data centre operators

FIRST STEP

Send us your candidate sites.

Share the coordinates or erf numbers of your candidate sites. We'll confirm the scope and a fixed fee for the desktop screening.

Start a screening → info@terraq.co.za

Reports that need a professional signature are co-signed by registered partner specialists.

TALK TO US

Start a screening.

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