



COMPANY PROFILE

2021



Geostruct Engineering Laboratories (PTY) Ltd. is an established engineering consultancy firm to a broad range of technically complex projects. With over 10 years' experience in the field of Geotechnical Engineering, Floodline Analysis, Hydrogeological and Hydropedological Reports.

The company is based in Randburg, Gauteng.



*“ALWAYS
DELIVER
MORE THAN
EXPECTED.”*



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THE COMPANY

Geostruct Engineering Laboratories (PTY) Ltd. began its business operation in 2013. We are a team of extensively experienced ECSA and SACPLAN professionally registered practitioners with partnerships with SANAS accredited engineering laboratories. We offer our services to both private and public sectors clients.

Geostruct Engineering Laboratories (PTY) Ltd. is an established engineering consultancy to a broad range of technically complex projects. With over 10 years' experience in the field of ***Geotechnical Services; Floodline Analysis Reports; Hydrogeological Reports; Hydropedological Report & Engineering Services Reports.***



The company is based in Randburg, Gauteng, whilst providing engineering management related services throughout South Africa.

By employing knowledgeable and competent staff we strive to identify, serve and satisfy the needs and expectations of our clients in both public and private sectors.

Geostruct became a 100 % Black Owned and 50% Woman owned Company.

COMPANY INFORMATION AND CONTACT DETAILS

Business Name: Geostruct Engineering Laboratories (PTY) Ltd.

Business Address: Cnr Fabriek and Commercial Road; Graphite Industrial Park Unit 47; Strydompark; Randburg; 2167

Phone: +27 79 130 4336

Email: info@geostructeng.co.za

Primary Line of Business:

- Geotechnical Engineering,
- Specialised Geotechnical Services
- Floodline Analysis Reports
- Hydrogeological Reports
- Hydropedological Report
- Engineering Services Reports

VISION & VALUES

We uphold the profession's standards and Code of Ethics of each of the membership institutions to which we belong, including the South African Council for Planners (SACPLAN); Engineering Council of South Africa (ECSA) and the South African National Accreditation System (SANAS).



Our Vision

Our Vision is to achieve 100% customer satisfaction by delivering high quality services at affordable cost.



Our Mission

Our mission is to achieve the reputation of high quality, standard and reliable engineering and developmental services.



Our Values

Its personnel, their innovative ideas, desire for Excellence and their ability to adapt to changing circumstances, as its most important asset.

HOW WE THINK

Geostruct offers a range of consultancy services including integrated land use planning, urban and regional policy, transport strategy, traffic engineering, infrastructure design, project management and sustainable movement planning.

This multidisciplinary company represents an integrated and fresh approach to national, state and local challenges. Our growth record, increasing national profile and commitment to outstanding client satisfaction is backed by an enthusiastic team of professionals.



OUR KEYS FOR DEVELOPMENT

Why you should choose us...

Our keys for development:

- Desire for Excellence
- Trust and confidence build-up
- Innovation
- Transparency
- Teamwork

We believe in:

- Motivation
- Collective responsibility and leadership.
- Professionalism and ethics
- Adding value to our client needs

AREAS OF EXPERTISE

1. Specialised Geotechnical Services
2. Floodline Analysis Reports
3. Hydrogeological Reports
4. Hydropedological Report
5. Engineering Services Reports

CORE SERVICES

We have developed a collaborative approach to working with state and local governments, commercial enterprises and academic agencies to deliver specialised and expert results.



1. SPECIALISED GEOTECHNICAL SERVICES

We provide geotechnical consulting services throughout the engineering industry for Mine infrastructure development, Oil and Gas related developments, Commercial developments, Rail, Roads and Earthworks, Dams, Bridges and Harbour developments. Using in house facilities Geopractica provides it's clients a full range of geotechnical services from the planning stage to drilling and probing to field data acquisition to laboratory testing and final report preparation and presentation.



- Geotechnical Drilling;
- Geotechnical Investigations;
- Geotechnical Report;
- Geotechnical Grouting;
- Geotechnical Testing;
- Geotechnical Engineering;
- Geotechnical Rotary Core drilling;
- Geotechnical Laboratory;
- Geotechnical Soil testing;
- Geotechnical Lateral support.



2. FLOODLINE ANALYSIS REPORTS

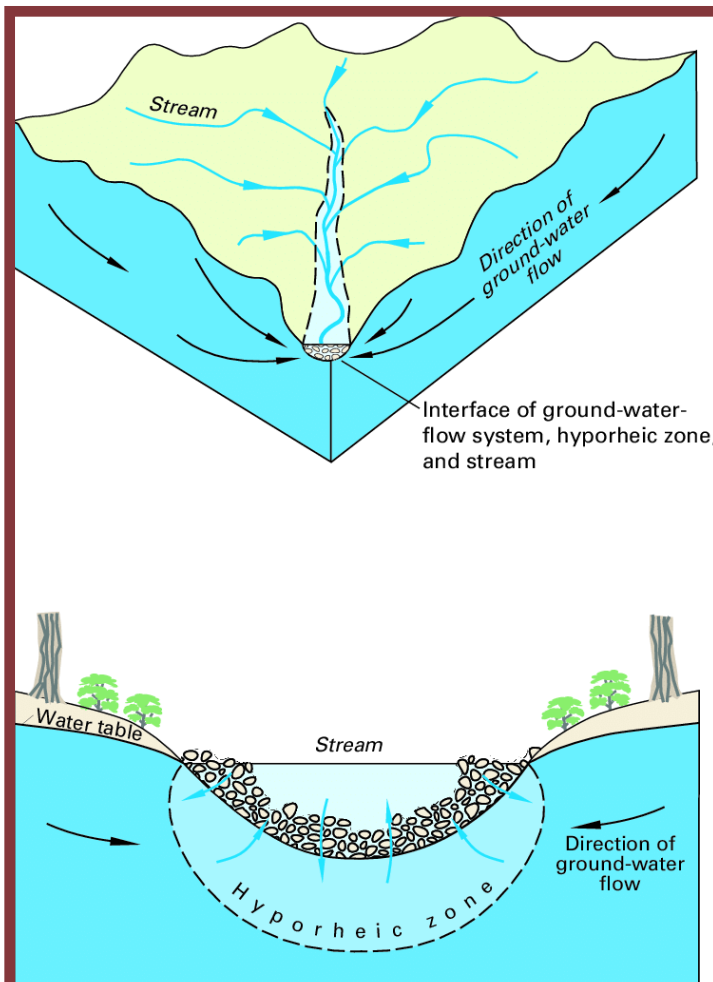
Water management is a key element in virtually all building and urban regeneration projects. To maximise the potential of our developments in a sustainable and environmentally responsible way, effective water management is vital. Managing potential flood risk has become an increasingly high profile aspect of our work whether in response to South African flooding during the period 2010 -2011 or the terrible impacts of recent global tsunamis.

Our team draws on a range of engineering skills including hydrological analysis, coastal hydraulic modelling, surface runoff calculations and storm and foul drainage design.



3. HYDROGEOLOGICAL REPORTS

We follow a risk-based approach in our investigations to identify all sources, pathways and receptors (source-pathway-receptor approach) within the local and regional environment as per stipulated Best Practise Guidelines by the Department of Water and Sanitation (DWS). Our detailed site characterisation methods which include, amongst others, geophysical surveys, borehole drilling and aquifer testing are used to conceptualise the groundwater environment at each site. Numerical groundwater modelling is applied to simulate potential impacts on the local and regional groundwater regimes and, in addition, is also used to simulate the effectiveness of mitigation (remedial) measures.

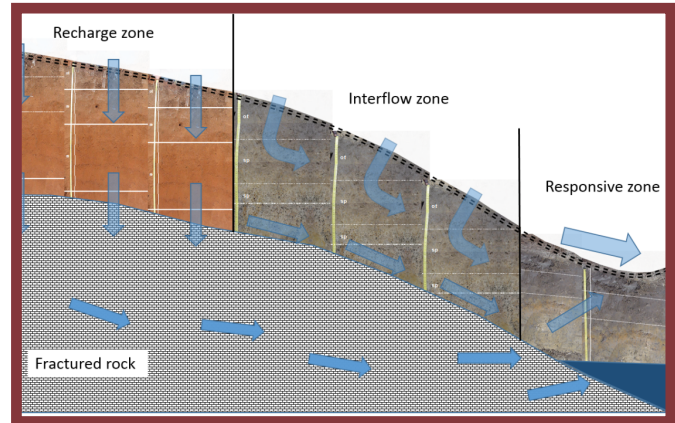


- Hydrocensus and borehole surveys;
- Geophysical Surveys (electrical resistivity, EM, magnetic etc);
- Borehole drilling and supervision;
- Aquifer testing including packer tests;
- Baseline Investigations / Greenfields;
- Groundwater Impact Assessments;
- Mine dewatering;
- Numerical Groundwater Flow and Transport Models;
- Groundwater Remediation and Mitigation;
- Hydrochemical and geochemical Assessments;
- GIS Mapping;
- Water and salt balances.



4. HYDROPEDOLOGICAL REPORT

Hydropedological surveys aim to characterise dominant surface and sub-surface flowpaths of water through the landscape to wetlands and streams or groundwater. The objective of these guidelines is to standardise hydropedological survey methodology to identify dominant hydrological drivers and responses of landscapes in order to quantify the impact of new development on water resources. This will assist decision makers to understand the hydrological system and thereby make sensible decisions with regards to sustainable water management.



- Identification of dominant hillslopes;
- Conceptualising hillslope hydropedological responses;
- Quantification of hydraulic properties and flowrates;
- Quantification of hydropedological fluxes;



5. ENGINEERING SERVICES REPORTS

Determining how a proposed development will be serviced by essential engineering infrastructure is an integral component of a project's feasibility.

Geostruct Engineering has extensive experience and expertise in providing clients with this early project input through the preparation of Engineering Services Reports.

Engineering Services Reports detail the findings of site investigations and desktop analysis regarding how the provision of essential services, such as potable water supply, sewerage reticulation, electrical supply and telecommunication services, will be established and outlines potential strategies for the provision of these services to be expanded upon during the detailed design phase of the project.



OUR TEAM

Geostruct concentrates on providing a comprehensive range of professional and appropriate skills and expertise required to undertake any aspect of the planning and development field.

NTOKOZO SIYABONGA MHLONGO

Chairman

BTech(Eng): Civil Engineering

He worked as a Civil/Structural Engineer involved in carrying out analysis, design, detailing & checking of various Industrial reinforced concrete and steel structures, equipment holding structures and foundations, equipment bases, storage sheds, tank farms, pipe racks etc. for mining, metallurgy, oil, gas, fertilizer and explosives plants. I have also been involved in the analysis and design off industrial floors and pavements and plant drainage systems. He also worked as a site/quality engineer.floors and pavements and plant drainage systems. He also worked as a site/quality engineer.

ZINZISWA KANISE

Managing Director

BTech (Cost & Management Accounting) (Cum Laude)

Experienced Management Accountant with a demonstrated history of working in the food & beverages industry. Skilled in Microsoft Word, Syspro, Microsoft PowerPoint, Financial Analysis, and Accounting. Strong accounting professional with a BTech: (Cum Laude) focused in Cost and Management Accounting from Nelson Mandela Metropolitan University.

OUR BRANCHES

GAUTENG

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Geostruct Engineering Laboratories (PTY) Ltd. is a Gauteng based consultancy firm, providing specialised services in the field of geotechnical engineering planning and developmen across South Africa for more than 10 years.

Our work is always supported by extensive research, consultation and clear thinking. We deliver tailored advice and ensure all clients are provided with a premium consulting service.



OUR CLIENTS



MBSA
CONSULTING
Consulting Engineers ■ Civil and Electrical



**TEGMUL PETROLEUM
GROUP INTERNATIONAL**



**MAKHAOTSE, NARASIMULU
& ASSOCIATES (Pty) Ltd**
Consulting Engineers and Project Managers



Town Planners changing perceptions



Makhedama & Associates
Consulting Engineers



COMPANY PROFILE

2021



CONTACT US

We take pride in providing clear and practical advice to clients which leads to achievable outcomes.



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park, Randburg, 2169



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