



Knight Piésold
CONSULTING

**Global
Consultin
g
Engineers**





Since 1921

**Established in
Johannesburg,
South Africa**

Multidisciplinary Consulting Engineers and Scientists





Locally Owned

Local Presence

**1,400-strong
team
operating
from 28
offices across
16 countries**

International Offices

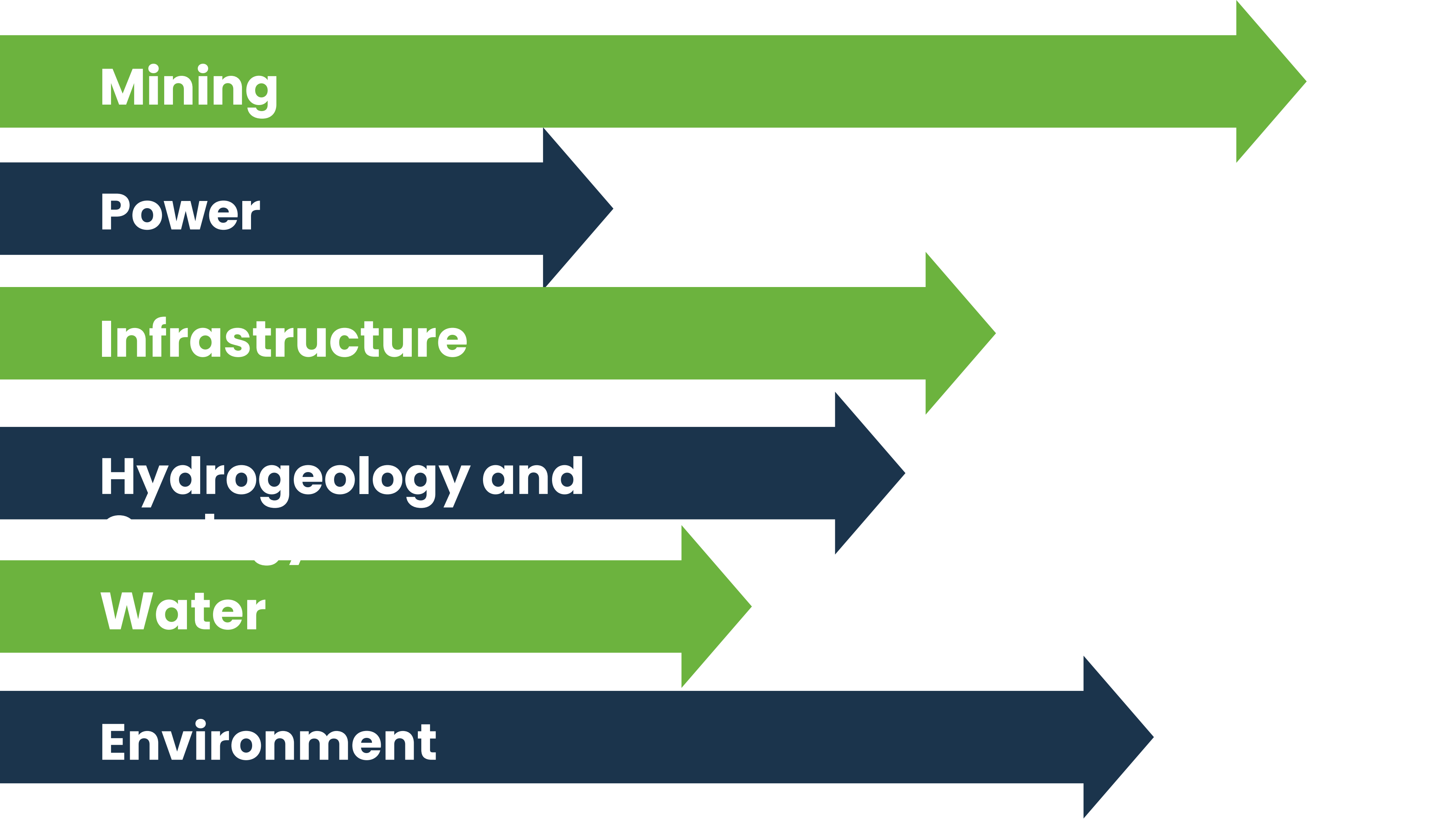


KP Southern Africa

- **Office Africa**
- **Zambia**
- **Namibia**
- **Botswana**
- **Eswatini**
- **Madagascar**



Our Core Services



Mining

Power

Infrastructure

Hydrogeology and

Water

Environment



Tailings and Waste Management
Mine Residue Services
Rock Mechanics
Water Management
Heap Leaching
Geotechnical Engineering

Mining

An aerial photograph of a river system. A large dam is visible in the upper left, with water flowing over it. The river continues downstream, winding through a landscape of green vegetation and some cleared areas. A small settlement or industrial site is visible on the right bank. The image is partially obscured by a dark blue curved shape on the right and a green rectangular shape at the bottom.

Dam Engineering
Hydrological Studies
Pumpstations
Water Pipelines
Waste Water Treatment
Floodline Analysis
Dam breach Analysis

Water



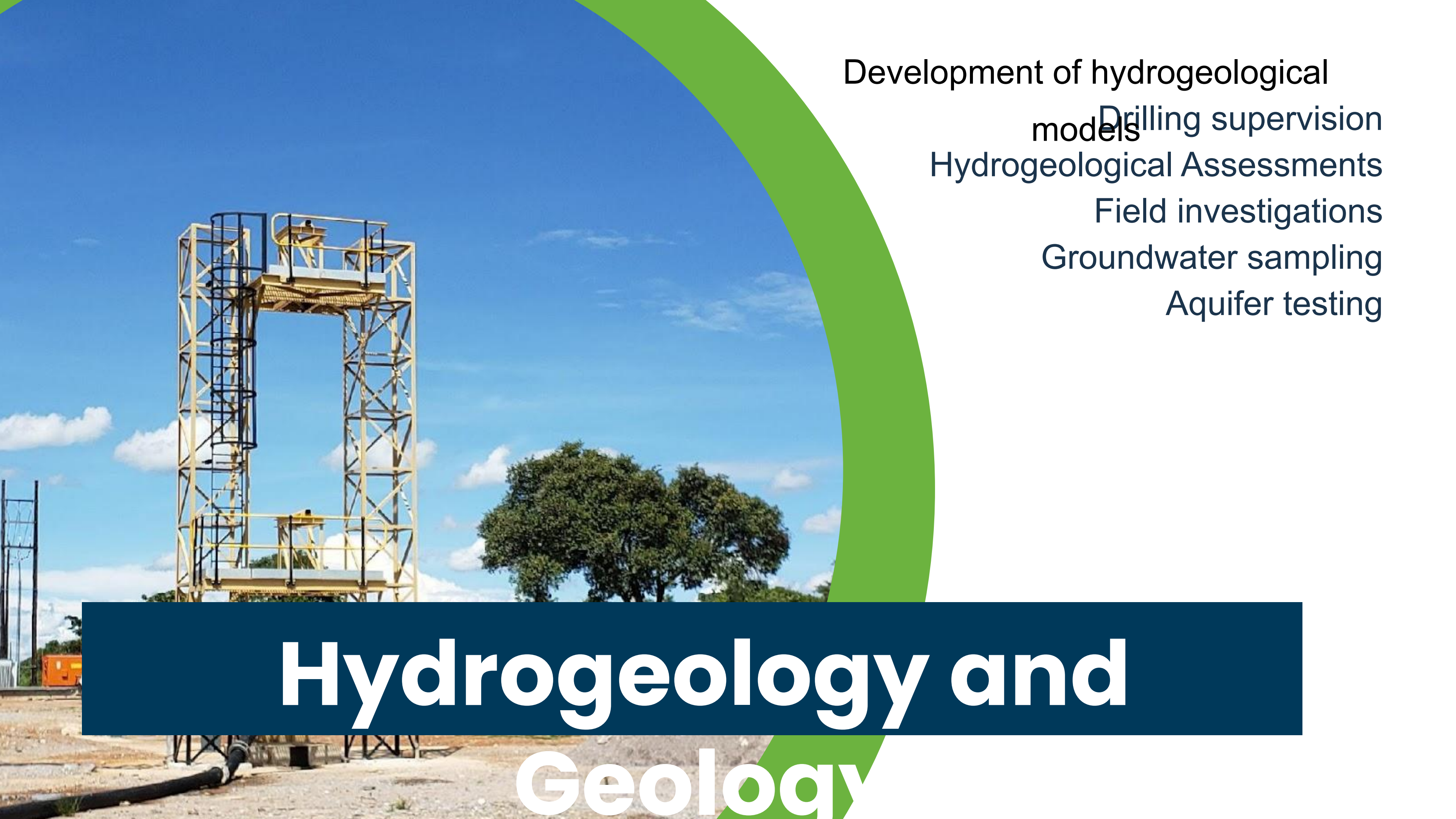
Hydropower Engineering
Dam and River
Hydropower Developments
Engineering
Surface Water Management

Power



Haul Roads
Traffic Studies
Structural Engineering
Bulk Infrastructure
Geotechnical Analysis
Bridge Engineering

Infrastructure



Development of hydrogeological
models
Drilling supervision
Hydrogeological Assessments
Field investigations
Groundwater sampling
Aquifer testing

Hydrogeology and Geology

A photograph of a concrete culvert in a river. The water is brown and murky. In the background, there are dense mangrove trees with their characteristic prop roots. The sky is blue with some clouds. A large, dark blue curved shape is overlaid on the right side of the image.

Audits
Monitoring
Aquatics Ecology
Permitting
Mine Closure

Environmental





Environmental, Social and Governance (ESG)

Environmental and social impact assessments; environmental monitoring and analysis; public participation; environmental management plans; mine closure plans; and environmental rehabilitation plans.



Geotechnical Services

Site investigations for tailings dams and mining infrastructure. Design expertise in dams; embankments; slope stability including lateral support and tunnelling; shallow and deep foundations; and dolomite stability investigations.



Rock Mechanics

Site investigation programs; pit slope designs; stability assessments and operational monitoring; stabilization systems; and micro-seismic monitoring of underground or open pit mines.



Tailings

Pioneer in alternative tailings management technologies, such as drained sub-aerial systems and cycloned wall raising. Involvement in thickened and paste tailings, as well as dewatered 'dry stack' tailings systems. Strong capabilities in design reviews, third-party audits and EOR appointments.



Hydrogeology

Field investigations; data management and analysis; groundwater resource estimation; chemical characterization of groundwater, waste rock, and tailings; development of conceptual to numerical groundwater flow and transport models.



Earthworks

Platforms for heavy and superheavy structures and excavation design for foundation construction; specialised geotechnical soil improvement methods such as stone columns, piling and dynamic consolidation.



Water Management

Surface water resource planning; hydrogeological investigations; river diversions; mine dewatering; tailings dam breach assessments; stormwater management; water balance studies; and water quality assessment and treatment.



Water & Wastewater Treatment

All aspects of water and wastewater treatment, including the process, civil, structural, control, mechanical and electrical engineering design of treatment works, with specific focus on process water for mining and industrial clients.



Dams & Hydropower

Design and construction monitoring of all types of water storage and pollution control dam walls and ancillary structures, including regulatory dam safety inspections and dam breach assessments.



Conveyance Systems

Design, specification and construction supervision of transfer systems for water and slurry. Pumps and pipelines are selected and tailored for optimum longevity, low energy consumption and suitability of materials.



Structural

From design to close-out for new structures, including bid evaluation and third-party approvals, as well as corrosion studies; condition assessment and rehabilitation of existing structures; and demolition and asset register requirements.



Housing Development

All civil and environmental engineering for housing developments and mine camp/accommodation.



Roads, Rail and Runways

From haul roads to rail and runway (airstrip) projects covering the full spectrum of services from inception, such as route determination and alignment; substructures and mass earthworks; stormwater; pavement engineering; and providing site supervision during construction.



Waste Rock Dumps and Ore Stockpiles

Planning, design and monitoring of waste rock facilities and stockpiles with regard to physical and chemical stability, environmental, closure and water and waste management services.



Heap and Dump Leach Design

Barrier system design meeting stringent groundwater protection and drainage efficiency. Design of ponds, water reservoirs and irrigation systems.



**We understand, every
project is unique.**

**Through collaboration
and multi-disciplinary
expertise, we provide
tailored solutions that
are designed
specifically for your
project's requirements.**



OUR PROJECTS



OUR ACCOLADES

ACEB BUSINESS EXCELLENCE AWARD 2024



OUR PRESENCE

**Global leaders in risk
management and
strategic solutions,
leveraging technical
and African Excellence
in the SADC Region**

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