

NATURE

environmental studies landscape architecture green building architecture

ENVIRONMENTAL IMPACT ASSESSMENT DRAFT BASIC ASSESSMENT REPORT

for

POROPOSED CHANGE OF LANDUSE AND CLEARANCE OF INDIGENOUS VEGETATION

on

PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, CITY OF MATLOSANA, NORTH WEST PROVINCE

(Site coordinates 26°52'03.34"S, 27°37'27.12"E) SG 21-digit code: T0IP0000000042400603 and T0IP0000000042400604

GN.R. 327,	27 - The clearance of an area of 1 hectares or more, but less than 20 hectares of
4 December	indigenous vegetation.
2014	
GN.R. 327,	28(ii) – Residential, mixed, retail, commercial, industrial or institutional development
4 December	where such land was used for agriculture, game farming, equestrian purposes or
2014	afforestation on or after 01 April 1998 and where such development will occur outside an
	urban area, and where the total land to be developed is bigger than 1 hectare.

DECEMBER 2022

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(Site coordinates 26°52'03.34"S, 27°37'27.12"E) SG 21-digit codes: T0IP0000000042400603 and T0IP0000000042400604

for

LETLOWA LA KHUMO TRADING (PTY) LTD

EXECUTIVE SUMMARY

The EIA BAR for proposed change of landuse and clearance of indigenous vegetation on Portion 603 and Part of Portion 604 of Townlands of Klerksdorp, City of Matlosana deals with an evaluation of the site in both its regional and site specific context.

Aspects investigated include natural (geology, soil, topography, hydrology, climate & microclimate, vegetation, wildlife), physical (location, access, traffic, infrastructure, landuse, safety & security, legal, social, economic, heritage) and sensorial (visual, spirit, smell, sound) characteristics, ecological and environmental processes, environmental policies and the legislative framework, evaluation of the proposed project, as well as public participation.

The environmental impact assessment deals with the following aspects: conservation status, site opportunities and constraints, ecological sensitivity, site development potential, community involvement, formulation of environmental impacts, the significance of impacts, and the mitigation of impacts.

Recommendations include an Environmental Impact Statement, Traffic Impact Assessment, finalization of the layout plans, and an Environmental Management Programme (EMPr).

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1 INTRODUCTION

1.1 Purpose of report

Application for Authorisation for an Environmental Impact Assessment (EIA) Basic Assessment Report (BAR) for the proposed change of landuse from Agriculture to Mixed Use and clearance of indigenous vegetation larger than 1 hectare on Portion 603 and Part of Portion 604 of the farm Townlands of Klerksdorp 424-IP, City of Matlosana. ecologic AFRIKA was appointed as Environmental Assessment Practitioner (EAP) (Annexure A) for the EIA BAR study and an Application for Authorisation is submitted to North West Province Department of Economic Development, Environment, Conservation & Tourism (DEDECT) with this EIA BAR.

1.2 The property (Drawing 1 and 2)

Portion 603 and Part of Portion 604 is located along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. (coordinates 26°52'03.34"S; 26°37'27.12"E). The properties measure 17,1668ha.

1.3 <u>The project</u> (Drawing 4)

The proposed development will consist of Residential 2 development and Special (taxi rank) on Portion 603 (indicated as Portion A), and Business 1 development on Part of Portion 604 (indicated as Portion B). Only one alternative site has been considered, based upon the purchase of the property specifically for this use.

1.4 Terms of reference

Ecologic Afrika has been appointed for the Environmental Impact Assessment (EIA) and Environmental Management Programme (EMPr) for the proposed development.

This report is concerned with the environmental impact assessment and, as such, input from the landowners, consultants/specialists and authorities have been and will be obtained and integrated into this report.

The activities applied for is listed in Government Notice **327** dated 07 April 2017:

- Listing 1, Activity 27 the clearance of an area of 1 hectare or more, but less than 20 hectares, of indigenous vegetation.
- Listing 1, Activity 28(ii) retail, commercial and industrial developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development will

occur outside an urban area, where the total land to be developed is bigger than 1 hectare.

1.5 <u>Methodology</u>

This EIA BAR consists of the following steps:

Site evaluation (natural, physical, sensory)
Legal procedures and legislation (national, provincial, local)
Proposed project evaluation (need & desirability, alternatives, phasing)
Interested & Affected Parties (IAPs) involvement
Environmental impact assessment and mitigation
Environmental impact statement
Environmental Management Programme (EMPr)

SITE EVALUATION

2.1 Regional context

The regional context represents a broader overview of the area in which the site is located, in order to understand its function and purpose relating to other facilities and activities in the area.

2.1.1 Natural environment

The site is located on a fairly flat plain along the N12 freeway between the Rio casino and the Shell ultra-city in the west of Klerksdorp. Vegetation in the area is classified as Vaal-Vet Sandy Grassland. Scattered tree species consist primarily of Vachellia karoo and Searsia lancea. Dominant grass species consist of Anthepora pubescens, Aristida congesta, Chloris virgata, Cymbopogon caesius and Cynodon dactylon. Geology is mainly underlain by volcanic and sedimentary rocks of the Platberg Group, Ventersdorp Supergroup which contain clastic and chemical sediments as well as felsic to mafic volcanic rock. The climate consists of warm summers and dry winters, with severe frost in winter, and typically with summer afternoon thunderstorms and average rainfall of 530mm annually.

2.1.2 Physical environment

The area is developed and disturbed. Residential, commercial and light industrial development (Meiringspark, Uraniaville) along both north and south of the N12 freeway in the west of Klerksdorp. The N12 freeway runs along the southern boundary of Portion 604, with the Rio casino and Shell ultra-city on either side of the site. Residential development occurs north of the site, and commercial and light industrial development south of the site.

2.1.3 Sensory environment

The character of the area is urban and disturbed, with residential, commercial and light industrial development negating any natural character of the area.

2.2 <u>Natural characteristics</u> (see Dwg 2, Fig 1)

These characteristics are more site specific and deals with the site and its immediate surroundings. These characteristics were also investigated in more detail pertaining to the site and the proposed development thereof.

2.2.1 Geology & geotechnical (see Appendix D3)

Site is underlain by amygdaloidal lavas of the Rietgat Formation, Platberg Group and consist of mostly greenish-grey amygdaloidal andesite to dacite with some interbedded shale, tuff, greywacke and conglomerate. Part of the site was previously used as a borrow pit and later backfilled and converted to a drive-in theatre, and subsequently abandoned

2.2.2 Soils

Soils appear to be residual soil derived from the in-situ decomposition of the parent rock that has resulted in the formation of fine-grained, clay rich residual soils.

2.2.3 Topography

The site is located on a fairly flat plain. The site slopes northwards at an average slope of 1%. The site elevation is about 1327m above mean sea level.

2.2.4 Hydrology

The average rainfall in the area is 530mm during November to March. The site slopes to the north, with stormwater runoff in the form of sheetwash. No groundwater seepage was detected and no groundwater is anticipated in the near surface ground horizons.

2.2.5 Climate & microclimate

The climate of the area is characterised by warm summers and cold winters, with summer rainfall and dry winters and severe frost in winter. Monthly maximum temperature is 30°C in summer and -3°C in winter. Average rainfall is 530mm per annum. The microclimate of the site is not affected by the topography of the site.

2.2.6 Vegetation

The site is classified as Vaal-Vet Sandy Grassland. Scattered tree species consist primarily of *Vachellia karoo and Searsia lancea*. Dominant grass species consist of *Anthepora pubescens, Aristida congesta, Chloris virgata, Cymbopogon caesius and Cynodon dactylon*. Part of the site is severely disturbed by an old borrow pit, which was later backfilled and converted to a drive-in theatre. Much dumping of rubble and general littering also occur on the site.

2.2.7 Wildlife

No mammals have been observed on site, although small mammals, reptiles, amphibians and insects may occur. Some birdlife have been observed. The following species have been identified on site: hadeda, doves, widows, bishops and sparrows. No Red Data species have been identified for the site, due to the disturbed nature of the site, the close proximity to development, and lack of suitable habitat.

2.3 Physical characteristics (see Fig 1 and Dwg 2)

These characteristics represent all manmade intrusions on and/or manipulations of the site and the surrounding area.

2.3.1 Location & access (see Appendix D1 and Drawing 1)

The property is located along and north of the N12 freeway, between the Rio casino and Shell ultra-city in the west of Klerksdorp (coordinates 26°52'03.34"S; 26°37'27.12"E). Access is from the existing signalled intersection of the N12 freeway and Benji Oliphant Road to Uraniaville, which will be upgraded in future, as well as Scheepers Street north of the site, and Jan Parlement Street east of the site. The properties measure 17,1668ha.

2.3.2 Traffic (see Appendix D1)

Access to the site has already been discussed under Item 2.3.1 above. A road network will be constructed linking the existing Jan Parlement and Scheepers Streets with internal collector roads and access to the N12 freeway.

2.3.3 Infrastructure (see Appendix D1 and D2)

Water will be supplied by City of Matlosana. Sewerage disposal will be by means of existing City of Matlosana network. Stormwater disposal will be into existing City of Matlosana network. Waste disposal will also be by city of Matlosana. Electricity will be provided by City of Matlosana.

2.3.4 Landuse (see Dwg 2)

The current landuse on the property consists of disturbed veld, partly previously used for a drive-in theatre. Dumping and littering have occurred on the site. The zoning is currently Agriculture. Adjacent landuses consist of The Rio casino west of the site, Meiringspark residential township north of the site, Shell ultra-city east of the site, and Uraniaville light industrial area south of the N12 freeway and the site.

2.3.5 Safety & security

Safety in the area is marginal, as is the general state in the country, especially in the more rural areas. Individual stands will be fenced/walled in, with controlled access.

2.3.6 Legal

No legal constraints have been established for the site. Internal street network to provide access to all stands will form part of the proposed development.

2.3.7 Social

The social profile of the area is primarily middle income, residential, with commercial and light industrial facilities creating employment opportunities.

2.3.8 Economic

Economic activity in the area consists of residential, commercial, and light industrial development, including the adjacent Rio casino and Shell ultra-city. Access to the site is from the N12 freeway, Jan Parlement, and Scheepers Street.

2.3.9 Heritage

No signs of historical significance have been found on the site, due to severe disturbance of the site.

2.4 Sensory characteristics

These characteristics influence the senses (sight, sound, touch, taste) and may be subjective, based upon perceptions, conditioning and personal preferences.

2.4.1 Visual

The visual quality of the site is primarily urban, with existing casino, filling station, residential 1 and 2 development and other commercial and light industrial development around the site. Visual quality of the surrounding area is disturbed urban (residential, commercial, light industrial, dumping, littering) around the site Views from the site are limited due to flat topography. Visibility to the site is good, especially from the N12 freeway towards the proposed business development on Part of Portion 604.

2.4.2 Spirit & site atmosphere

The character of the site is primarily urban and busy, with dumping and littering detracting somewhat of this experience.

2.4.3 Smell

Odours emanating from the area are limited.

2.4.4 Sound

Noise is audible from especially traffic on the N12 freeway.

2.5 <u>Ecological & environmental processes</u>

These processes represent site and surrounding area characteristics (natural, physical, sensory) combining/interacting to form substantial causes and affects relating to the site.

2.5.1 Biodiversity (see Dwg 3)

Biodiversity represents the variety of plant (trees, shrubs, groundcovers, grasses, aquatics, succulents) and animal (mammals, birds, reptiles, amphibians, fish, insects) species that occur or may occur in the area. The biodiversity/environmental sensitivity is low, due to development and disturbance, and limited natural vegetation.

Although the DFFE screening indicates Very High terrestrial biodiversity sensitivity, the entire site is disturbed (old borrow pit and later drive-in theatre) and surrounded by development (Meiringspark residential township north, Shell ultra-city east, N12 freeway and Uraniaville light industrial township south, and Rio casino west). The biodiversity classification refers to a Critical Biodiversity 2 Area, which cannot be justified due to disturbance of the site.

2.5.2 Sustainability

The agricultural potential of the site is deemed low. The terrestrial biodiversity is deemed very high, although the entire site is disturbed and surrounded by development.

2.5.3 Habitats

Habitats are limited and consist primarily of landscaped gardens around the site. The site itself has been partially disturbed.

2.5.4 Corridors

Corridors for the movement of wildlife are not present on the site.

2.5.5 Pollution

Pollution on the site and surrounding area is average. Sources of pollution in the area consist of traffic noise, dumping and littering, and limited odours from traffic emissions and veld fires. None of these has, however, a direct or detrimental impact on the proposed development of the site.

3. ENVIRONMENTAL POLICIES & LEGISLATIVE FRAMEWORK

Environmental policies guide development in specific areas, whereas the legislative framework governs environmental controls relating to development.

3.1 National Government policies & legislation

3.1.1 Constitution of South Africa

The Constitution (Act 200 of 1993) gives every person the right to an environment that is not harmful to their health and wellbeing. Everyone, thus, has the right to have the environment protected for present and future generations through reasonable legislative and other measures that prevent pollution and ecological degradation, promote conservation and secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development.

3.1.2 Spatial Planning and Land Use Management Act (SPLUMA)

The Spatial Planning and Land Use Management Act (Act 16 of 2013) provide a framework for spatial planning and land use management, specify the relationship between spatial planning and other kinds of planning, provide for the inclusive, developmental, equitable, and efficient spatial planning, provide a framework for policies, principles, norms and standards for spatial planning and development, provide a framework for monitoring, coordination and review of spatial planning and land use management, address past spatial and regulatory imbalances, promote greater consistency and uniformity in the application procedures and decision-making by authorities, provide for the establishment, functions and operations of Municipal Planning Tribunals, and provide for the facilitation and enforcement of land use and development measures.

3.1.3 Environmental Conservation Act (ECA)

The Environmental Conservation Act (Act 73 of 1989) requires that likely environmental effects of activities be taken into consideration before decisions in this regard are taken. The objective of such an assessment is to promote sustainable development towards achieving and maintaining an environment that is not harmful to people's health or wellbeing. Sections 21, 22 and 26 of the Act strive to integrate environmental impact management with development activities with the aim to ensure more responsible and environmentally sensitive development.

Buffer zones, although not officially gazetted, for industries, sewage treatment works, landfill sites and mine dumps have been formulated to control development adjacent to the said activities. Criteria against which development applications in close proximity to these listed land uses will be evaluated is

formulated in the policy document *Information layers and buffer zones for industries, sewage treatment plants, landfill sites and mine dumps* (DACEL 2002).

3.1.4 National Water Act (NWA)

The National Water Act (Act 36 of 1998) requires that any water resource, along with the associated natural environment be protected from development that could potentially significantly alter their natural structure and function. Objectives of the Act include the sustainable use of water for the benefit of all users, the protection of the quality of water resources, and the need for integrated management of all aspects of water resources.

3.1.5 National Environmental Management Act (NEMA)

The National Environmental Management Act (Act 107 of 1998) seeks to provide for cooperative environmental governance by establishing principles for decision-making on matters affecting the environment. The Act, furthermore, includes that environmental management must place people and their needs at the forefront of its concern, and to serve their physical, psychological, developmental, cultural and social interests equitably.

3.1.6 National Heritage Resources Act

The National Heritage Resources Act (Act 25 of 1999) aims to promote good management of the national estate, and to enable and encourage communities to nurture and conserve their legacy for future generations. The national estate may include places, buildings, structures and equipment of cultural significance; landscapes and natural features of cultural significance; archaeological and palaeontological sites; graves and burial grounds.

3.2 Provincial Government policies & legislation

3.2.1 Urban Edge

The proposed development falls inside the Urban Edge.

3.2.2 Buffer Zones

Buffer zones are defined as protection strips between different types of development (ie airports, sewage plants, power plants, mining). No buffer zones are applicable to the site.

3.2.3 Ridges policy

The ridges policy, in general, provides for the protection of ridges due to its prominence, sensitivity, steeper slopes, microclimate variation, and landscape value. No ridges are present on or close to the proposed site.

3.2.4 Red Data species

No Red Data species could be established on the site due to the disturbed nature of the site.

3.2.5 Agricultural Potential

The agricultural potential of the area is deemed low.

3.3 Local Authority policies & legislation

3.3.1 City of Matlosana Draft IDP 2022-23

The area is earmarked for Development, and is adjacent to the N12 freeway and in close proximity to light industrial/commercial development south and around the site, and residential development north of the site.

4. PROPOSED PROJECT EVALUATION

4.1 Need & desirability

The need for the proposed development is based on increased demand for residential development, opportunity for a small shopping centre with taxi rank, current and future growth trends anticipated for the area, combined with investment potential, and availability of land identified by the Applicant.

The desirability of the proposed development can be defined as the provision of housing, convenient shopping facility in the area, close proximity to existing adjacent developments (residential, commercial, light industrial), and the compatibility of the proposed development with other development in the area.

4.2 Alternative sites (see Dwg 4)

Only one site alternative has been evaluated, based upon ownership, location, and specific needs of the Applicant.

This Alternative consists of the development of Residential 2 stands adjacent to the existing Meiringspark residential township to be sold off to developers, as well as a small shopping centre with taxi rank along the N12 freeway and between the existing Rio casino and the filling station.

The proposed development will consist of the development of the whole site, with residential and commercial components, and associated infrastructure/services (roads, parking, water, sewage, electricity, stormwater, waste).

4.3 Alternative uses and technology

Alternative uses within the proposed development that have been considered consist of Residential 1 (individual stands) versus higher density Residential 2 development, and different layouts and combinations of the shopping centre and taxi rank.

Alternative technology will consist of solar panels and rainwater harvesting in lieu of only conventional electricity and municipal water.

The no-go option represents the continued use of the site for dumping, footpaths, vagrant shelter, potential illegal occupation, and derelict and disturbed abandoned drive-in theatre, with no economic benefit.

4.4 Development proposal

The proposed development (see Dwg 4) represents an environmentally integrated layout based on the evaluation and interpretation of existing site

resources, needs and tendencies, layout principles and engineering considerations. The proposed development will consist of Residential 2 stands adjacent to the existing Meiringspark residential township (to be sold off to developers), as well as a small shopping centre with taxi rank along the N12 freeway and between the existing Rio casino and the filling station, with associated infrastructure/services (roads, parking, water, sewage, electricity, stormwater, waste).

4.5 Phasing

The proposed development will consist of 2 phases. Phase one will be the development of shopping centre and taxi rank, and phase 2 will be the development of the remainder of the site (residential). The duration of the implementation of the proposed development is anticipated to be in the order of 10 years, although an operational phase forms part of the development.

5. PUBLIC PARTICIPATION

5.1 <u>Interested & affected parties</u> (see Appendix B1)

Interested & Affected Parties (IAPs) were notified as per guidelines prescribed in the National Environmental Management Act (NEMA), Act 107 of 1998. Adjacent landowners' information was obtained from the Applicant, Deeds office and other enquiries. Ward Councilor and Local Authority information were obtained from City of Matlosana Local Municipality. No other IAPs could be established.

5.2 <u>Legal procedures</u> (see Appendix B1 to B5)

IAPs were notified by registered mail and e-mail on 10 November 2022 (see Appendix B1), with a 30 day period to register as IAPs. The same advertisement was erected on site (see Appendix B2) and published in the Klerksdorp Rekord. This registration period expired on 10 December 2022. No parties registered as IAP (see Annexure B4).

5.3 Information transfer

No IAPs registered. A copy of the Draft EIA BAR was submitted to City of Matlosana simultaneous with this submission to DEDECT. Feedback/comments on the Draft EIA BAR will be included in the Final BAR.

5.4 Significance of key issues

The significance of key issues were determined by the following methodology:

- Environmental standards
- Literature search of available relevant information
- Site evaluation and sensitivity analysis
- Specialist input
- Level of public concern
- Mitigation potential to reduce severity of impacts
- Professional experience and training
- Internal discussions (brainstorming, nominal group technique, workshops)

5.5 Key issues identified

- Use and rehabilitation of disturbed site
- Access and traffic
- Compatibility with adjacent development
- Water, sewer, stormwater and electrical infrastructure
- Layout of proposed buildings (Residential 2 stands, shopping, and taxi rank)

The site is located within a developed area, but is derelict with dumping and littering taking place. The old borrow pit on part of the site was converted to a drive-in theatre, which was later abandoned.

Existing traffic access and safety is currently investigated. The Traffic Impact Study will be presented as part of the Final BAR.

Compatibility with adjacent developments indicated residential and commercial development as appropriate for the site.

Infrastructure (water, sewer, stormwater, electricity, waste) have been investigated. All services will be provided by City of Matlosana (see Appendix D1 and D2).

Layout of the proposed buildings will be finalized by prospective developers of the residential component and current design development around the shopping and taxi components. These layouts will be submitted to City of Matlosana (first Site Development Plans, and then building plans) for approval prior to construction.

6. ENVIRONMENTAL IMPACT ASSESSMENT

6.1 Conservation status

The conservation status of the site is deemed average to low, due to disturbance of the site and the surrounding area, as well as existing development in the area. The visibility of the site from the N12 is good.

6.2 Site opportunities

Site opportunities are those site characteristics presenting a positive contribution/impact towards the development of the site, from both a development and conservation perspective.

- Low agricultural potential.
- Development site disturbed.
- Developable flat slopes.
- Groundwater table deep.
- Access and exposure to N12.
- Expansion of development in the area.
- Proximity to Meiringspark and Uraniaville area.
- Support from City of Matlosana.
- Compatibility with existing and adjacent landuses.

6.3 Site constraints

Site constraints are those site characteristics presenting a neutral to negative impact, thus presenting a challenge towards its meaningful integration into the development of the site. These constraints may be mitigated to some extent, may be converted into an asset/positive impact, or may have to be accommodated as a restrictive or negative impact on the development.

- Traffic and access
- Geotechnical precautions during construction.
- Upgrading of municipal services.
- Financial investment required.

6.4 Ecological sensitivity (see Dwg 3 and Appendix E)

The ecological/environmental sensitivity of the site is deemed low, primarily due to disturbance of site and surrounding development.

Although the DFFE screening indicates Very High terrestrial biodiversity sensitivity, the entire site is disturbed (old borrow pit and later drive-in theatre) and surrounded by development (Meiringspark residential township north, Shell ultra-city east, N12 freeway and Uraniaville light industrial township south, and

Rio casino west). The biodiversity classification refers to a Critical Biodiversity 2 Area, which cannot be justified due to disturbance of the site.

6.5 Community involvement

Community involvement has been extensive, as has been presented under Item 5 in this report. All legal advertising and notifications have been met and exceeded. No IAPs registered.

6.6 Development potential

The site development potential represents the capacity of the site to accommodate the proposed development in an environmentally sensitive and responsible way.

The development potential of the site is considered as good, based upon the above opportunities and constraints, compatibility with other development in the area, low ecological sensitivity, and community involvement (low conservation status, developable slopes, the proximity to existing development, good access, and availability of the land).

6.7 Development alternatives

Only one alternative site has been considered, based upon ownership, locality and Applicant's specific needs.

The no-go option represents the continued use of the site for dumping, footpaths, vagrant shelter, potential illegal occupation, and derelict and disturbed abandoned drive-in theatre, with no economic benefit.

6.8 Environmental impacts

6.8.1 Methodology for assessing environmental issues

The significance of impacts will be determined by the following methodology:

- Environmental standards
- Literature search of available relevant information
- Site evaluation and sensitivity analysis
- Specialist input
- Level of public concern
- Mitigation potential to reduce severity of impacts
- Professional experience and training
- Internal discussions (brainstorming, nominal group technique, workshops)

6.8.2 Environmental impact

This EIA report evaluated all the available and relevant information, combined with the site evaluation (opportunities and constraints), environmental policies and legislative framework, interested & affected parties involvement, and assessment of the proposed development on the site. Environmental impacts and mitigation measures are presented under Item 6.9.2 in this report.

6.8.3 Environmental impact summary

A summary of the environmental impacts is presented for ease of reference. This summary is extracted from the Environmental Impacts and Mitigation presented under Item 6.9.2 in this report, and is based upon the following considerations:

- Geographical considerations
 - flat developable slope
 - geotechnical precautions
 - backfill with suitable compacted material
 - good access from N12
 - good visibility from N12
 - environmental awareness during construction and operations
 - stormwater management during construction and operations

Physical considerations

- geotechnical precautions
- developable, flat slope for development
- compatibility with adjacent landuses
- visibility to the site good
- good access to the development
- good exposure of the development
- construction camp to be neat and adequate
- health and safety guidelines and precautions to be adhered to during construction and operations
- rehabilitation of construction site, upon completion of construction

Biological considerations

- no Red Data wildlife found on site
- no Red Data vegetation found on site
- low agricultural potential of the site

Social considerations

- employment opportunities
- IAP liaison comprehensive

Economic considerations

- economic upliftment

- Local Authority support and approval of the development
- investment opportunities
- economically feasible development
- development in area
- waste disposal during construction and operations
- recycling during construction and operations

Heritage considerations

- no elements of historic architecture, graves, or artefacts
- if any elements of heritage importance found, notify ELO/ECO and Authorities, stop construction work in the area, and investigate

Cultural considerations

no influence/impact on local culture

6.9 Mitigation

6.9.1 Significance of impacts

Mitigation measures have been formulated to reduce the significance of negative impacts and to increase the significance of positive impacts on the site/environment or the proposed development, towards the optimal utilization of site resources in an environmentally sensitive manner. These measures will be presented as follows:

- Nature of impact whether the impact is positive, neutral, or negative.
- Probability of impact The likelihood of the impact occurring
- Duration The lifetime of the impact
- Extent Whether the impact is on a local, regional or national scale.
- Intensity The severity of the impact

6.9.2 Mitigation of impacts

Possible and potential environmental impacts have been identified, and mitigation measures/recommendations to either remove environmental impact, reduce environmental impact or enhance environmental impact have been formulated and is presented in table format for ease of reference.

MITIGATION MEASURES FOR PROPOSED DEVELOPMENT ON PORTION 603 AND 604 OF TOWNSLANDS OF KLERKSDORP 424-IP

DESCRIPTION	NATURE	PROBABILITY	DURATION	EXTENT	INTENSITY	RECOMMENDATIONS
Planning and design	positive	definite	long	regional	medium	In accordance with national, provincial & local legislation & regulations.
Geology & geotechnical aspects	negative	probable	short	local	low	Geotechnical precautions: remove unsuitable fill and backfill with suitable materials.
Blasting	negative	slight	short	local	medium	If blasting is required the community within a 2km radius from the site shall be notified in advance. Blasting shall be done in accordance with the Explosives Act of 1956, at appropriate times. All buildings and structures in the area shall be inspected for damage prior to and after blasting operations, and all damage shall be repaired by the Contractor.
Hydrology - surface water drainage	negative	probable	short	local	low	Stormwater drains to be installed. Cutoff drains to be provided at excavations during construction activities
Low agricultural potential	negative	definite	long	local	medium	Topsoil to be removed and stockpiled for later use.
Vegetation - exotic invaders	negative	definite	short	local	medium	All invasive exotic vegetation to be removed.
Vegetation - rehabilitation	negative	definite	short	local	medium	All disturbed areas should be revegetated upon completion of construction.
Wildlife - Risk of loss and damage/destruction of habitat.	negative	probable	short	local	low	No wildlife to be harvested for food. No wildlife to be caught or injured. No nesting or roosting sites to be disturbed.
Red Data species	negative	slight	medium	local	low	No rare or endangered species found on site. If specimens of unique character is encountered it should be reported.
Traffic and access	positive	definite	long	local	high	Comply with recommendations in Traffic Impact Study.

DESCRIPTION	NATURE	PROBABILITY	DURATION	EXTENT	INTENSITY	RECOMMENDATIONS
Construction camp	negative	definite	short	local	high	to be clearly demarcated and to be at least 100m from river. Site facilities to include kitchen and ablution facilities. Chemical toilets shall be provided. Toilets to be serviced once per week, toilet paper to be provided at all times, and daily inspections to be done to ensure proper use and hygiene. Refuse generated shall be collected on a daily basis, placed in a suitable closed container on site, and shall be removed weekly from the site to a licensed commercial disposal facility.
						Potable water shall be sufficient for drinking, cooking, and ablutions and shall be available at all times. Pollution (dust, noise, smoke, spillage) shall be minimised according to Recommendations under POLLUTION in this document. Any pollution of ground or surface water shall be reported to both the Environmental Officer and the Dept of Water & Sanitation (DWS).
Construction camp	negative	definite	short	local	high	Cement mixing shall only be done at areas allocated by the Engineer, in consultation with the Environmental Officer. Cleaning of cement mixing and handling equipment shall only be done using proper cleaning trays. All empty containers shall be removed from the site. Any spillage must be reported to the Environmental Officer for cleanup measures. No dumping of concrete on or around the site.

DESCRIPTION	NATURE	PROBABILITY	DURATION	EXTENT	INTENSITY	RECOMMENDATIONS
Construction camp	negative	definite	short	local	high	Fuelling and servicing of vehicles shall be done off site. If fuelling on site, then dedicated bunded area for fuel tanks (to contain any spillage - size to be the capacity of the fuel tanks + 10%), and plastic lining under soil around fuelling area (where vehicles park to fuel up). In the event of a breakdown immediate steps shall be taken to prevent any spillage. If spillage occur, it shall be reported immediately to the ELO, ECO and shall be contained and cleaned up immediately.
Construction camp	negative	definite	short	local	high	Dangerous and toxic materials such as fuel, oil, paint, and herbicides shall be stored in bunded areas under lock and key in well-ventilated areas. Sufficient precautions shall be taken during handling to prevent any pollution. Any spillage shall be reported immediately to the ELO/ECO for cleanup measures. Rehabilitation of campsite upon completion of construction shall be by removal and cleanup of all plant, equipment, material, and waste. Thereafter the site shall be scarified, seeded with indigenous veld grass seed, and maintained until coverage of the area to the satisfaction of the ELO/ECO.
Health & safety	negative	definite	short	local	medium	Health & Safety practitioner to be appointed. Health & Safety plan to be formulated and implemented on site during construction. Extreme care to be exercised while working in proximity of existing live power supply.

DESCRIPTION	NATURE	PROBABILITY	DURATION	EXTENT	INTENSITY	RECOMMENDATIONS
Safety and security	negative	probable	long	local	medium	Emergency contingency plans for fire, accident and criminal activities to be formulated with SAPS, Local Authority and management agencies.
Financial constraints	negative	probable	short	local	medium	Financial constraints (Professional fees, interest) and time constraints (access, approvals, price increases) to be minimised.
Influx of labour during construction	negative	probable	short	local	medium	No labour to be hired at the entrance to the site. No loitering to be allowed outside the entrance to the construction site.
Employment opportunities	positive	probable	long	regional	medium	Employment during construction (contractors, sub-contractors, labourers) and limited employment during operational phases.
Environmental awareness	positive	probable	long	local	low	Awareness of the importance and conservation of natural vegetation in the area.
Waste disposal	negative	probable	long	local	medium	Waste disposal during construction as per recommendations under CONSTRUCTION CAMP. Waste disposal during operational phase to be handled on a weekly basis by Local Authority contractors. Recycling of oil and fluids.
Heritage	negative	definite	short	local	medium	In the event that graves or other artefacts or bones are found during excavations, all work shall stop and the ELO/ECO shall be informed.
Stormwater management	positive	definite	long	local	low	A stormwater management plan to be formulated by the engineer to facilitate effective surface stormwater control.
Compliance with legislation	positive	definite	long	local	medium	All construction to comply with NHBRC, NBR and SABS standards and regulations.

DESCRIPTION	NATURE	PROBABILITY	DURATION	EXTENT	INTENSITY	RECOMMENDATIONS
Pollution	negative	probable	medium	local	medium	Veld fires/smoke to be minimized through controlled burning. Open fires to be minimized. Gaseous emissions by construction vehicles to be minimized by ensuring that vehicles and equipment/ plant are in good working order. Noise during construction to be limited to normal working hours and proper mechanical fittings. Dust during construction to be controlled by damping off/spraying of haul roads and stockpiles. Surface water to be contained by earth berms during construction. All water pollution to be reported to the Regional Office of Water Affairs. Spillage of any kind shall be contained where possible, reported immediately to ELO/ECO, and cleaned up.
Rehabilitation after construction	positive	definite	short	local	low	All disturbed areas to be rehabilitated to its former natural state upon completion of construction.
Solid waste disposal	negative	definite	long	local	low	Waste to be removed weekly to a registered dump site, either by the local Authority or a contractor to a registered dump site.
Disturbed areas	negative	definite	medium	local	high	All disturbed areas to be rehabilitated or to be integrated into the development of the site.
Environmental Management Programme (EMPr)	positive	definite	long	local	medium	EMPr to be implemented on site to regulate pre-construction, construction and post-construction phases of the development.

7 RECOMMENDATIONS

7.1 <u>Environmental impact statement</u>

Environmental impacts can be summarised as follows:

- Geographical impacts include upgrading of access, existing development in the area, proximity to similar developments in area, environmental awareness, and stormwater management.
- Physical impacts include geotechnical precautions, deep soil, developable slope for development, compatibility with adjacent landuses, views and visibility average to good, good exposure of the development, construction camp to be neat and adequate, health and safety guidelines and precautions, and rehabilitation of construction site.
- Biological impacts include no Red Data wildlife or vegetation found on site, and low agricultural potential of the site.
- Social impacts include employment opportunities and comprehensive IAP liaison.
- Economic impacts include economic upliftment, Local Authority approval of the development, investment opportunities, economic feasibility, development in the area, waste disposal during construction and operations, and recycling during construction and operations.
- Heritage impacts include no elements of historic architecture/graves/artefacts, if any elements of heritage importance found, notify ELO/ECO and Authorities, stop construction work in the area, and investigate.
- Cultural impacts include no influence/impact on local culture.

7.2 Traffic impact study

The traffic impact assessment (access, circulation, upgrading) is currently being conducted, and will be presented as part of the Final BAR.

7.3 Proposed Development Plans

The proposed development documentation (SDP, building/engineering plans) must be submitted to City of Matlosana for approval prior to construction.

7.4 <u>Environmental Management Programme</u> (EMPr)

The EMPr will submitted in support of the Application for Environmental Impact Assessment (EIA) Authorisation for the proposed development.

8. CONCLUSION

This EIA BAR for the proposed development dealt with an overview of the site in both its regional and site specific context. Aspects investigated included natural, physical and sensorial characteristics, ecological and environmental processes, environmental policies and the legislative framework, evaluation of the proposed project, as well as public participation. The environmental impact assessment dealt with the following aspects: conservation status, site opportunities and constraints, ecological sensitivity, site development potential, community involvement, formulation of environmental impacts, the significance of impacts, and the mitigation of impacts. Recommendations include an Environmental Impact statement, Traffic Impact Study, finalisation of Proposed Development Plans, and Environmental Management Programme.

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APPENDICES

EAP information

Α

В	Public participation
B1	Adjacent Landowner Notifications
B2	Site Advertisement
B3	Newspaper advertisement
B4	IAP Register
B5	IAP comments and responses
С	State Department contact details
D	Specialist reports
D1	Civil engineering services report
D2	Electrical engineering services report
D3	Geotechnical report
E	DFFE screening
F	Other reports

FIGURES

1 Site photographs

LIST OF DRAWINGS

- Locality Plan Site Plan 1
- 2
- Environmental Sensitivity Plan Proposed Development Plan 3



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Profile - Christiaan J (lan) Roos

Ian Roos obtained a Bachelor of Science degree in Landscape Architecture at Texas A&M University, USA and a Masters degree in Landscape Architecture at the University of Pretoria, SA. He also obtained the National Certificates in Architectural Draughting, Civil Engineering, Turfgrass Management, and Estate Agency at Technicons, and the Management Development Programme in Project Management at Unisa. Ian is a Professional member of the SA Council for the Landscape Architectural Profession (PrLArch), the SA Council for the Architectural Profession (PrSArchT), the Environmental Assessment Practitioner's Association of SA (PrEAP). Also GBCSA (Green Building Council of SA) New Green Building accredited professional.

Personal involvement in projects, since 1977, includes:

- Environmental planning and impact studies Bokong Nature Reserve, Delareyville X9 mixed use, Ngwenya River Estate, Tosca mixed use, Mvunisi lodge, The Downs Nature Reserve, Isago@N12 mixed use, Soshanguve mixed use, Loftus Park mixed use, various EIA Scoping and Basic Assessments in Gauteng, North West, Limpopo, KZN, Free State, Mpumalanga. Also S24G reports, environmental auditing and compliance monitoring, and Water Use License Applications...
- Site master planning Letubi Valley Golf Eco Estate in Mpumalanga, Bondev Park Residential Estate in Centurion, Tsehlanyane National Park in Lesotho, Musina mixed use development ...
- Ecotourism and resort planning Berg & Dal and Roodewal camps in Kruger Park, Fika Patso Dam tourism potential study, Liphofung Cave Cultural Heritage Centre in Lesotho, Fancourt Golf Resort, Brisbane hunting lodge in the Kalahari ...
- Landscape architecture Hedgehog's Nest Country Lodge, Eldopark and Eldoglen residential estates, Fancourt golf resort & estate, Dainfern golf estate gatehouse and club complex, Midstream residential estate parks and streetscape, Midstream college, Prestige college, National University of Lesotho Library Plaza, Emdeni Library, Uncle Tom's Hall in Soweto, and various residential projects...
- Golf course and sports architecture Dainfern Residential Golf Estate, QwaQwa Golf Course, Golfpark Bad Munder in Germany, Crown Colony Golf Estate in Texas, USA, Komatipoort golf course, Family Golf Centre, Alexandra and various Soweto soccer facilities, various tennis/basketball/netball/squash courts, Emndeni and Eldoglen sports halls ...
- Community involvement Social facilitation, community participation, emerging contractor screening, training and economic empowerment at Alexandra soccer complex, various Lesotho tourism development projects, and various Soweto sports development projects ...
- Project Management Midstream Estate landscaping, Moletsane Sports Complex in Soweto, Alexandra Square 1 Soccer Complex, Family Golf Centre, Arnoldi residence, Roos residence, Rustenburg lodge, Wolwekloof Manor estate...
- Architecture Eldopark gatehouse, Mattanu game ranch lodge, Eldoglen sports facilities and clubhouse, Kriek residence on game ranch, De Wet residence in Clovelly, Moletsane sports tavern, Brisbane hunting/safari lodge, Rustenburg lodge on game farm, Musina hotel/wholesale/retail/filling station/truck stop, Lead Wood Inn restaurant/conference/venue/accommodation, Miracle Park indoor sports, Wolwekloof Manor manager residence...
- Infrastructure Liphofung Cave power/sewer/water, Alexandra and Soweto soccer fields, Hillbrow and Soweto tennis/basketball/netball courts, Emndeni sports hall ...

lan is married, with two daughters. Personal interests include the outdoor environment, ecological restoration, sports and recreation, arts and crafts, wildlife and conservation, and innovative evangelism...

environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za • pierre.joubert.larch@gmail.com • web: www.ecologicafrika.co.za







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	10 November 2022
Property description	

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10)

Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan. Further information is available from our offices.

Kind regards ecologic AFRIKA



CJ Roos PrEAP Cell 0836357315

environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za • pierre.joubert.larch@gmail.com • web: www.ecologicafrika.co.za

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given in terms of Regulations published in Government Notice No R.324, 325, 326, and 327, according to Chapter 5 of the National Environmental Management Act (Act 107 of 1998) of the application for an EIA Basic Assessment Authorisation, which will be submitted to North West Province's Department of Rural, Environment and Agricultural Development for the purpose of:

- Proposed mixed use development and clearance of indigenous vegetation (Listing notice 1, Activity 27 clearance of an area of 1 hectares or more of indigenous vegetation, and Listing notice 1, Activity 28i development inside an urban area bigger than 5ha on land previously used for Agriculture).
- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Property location: Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp.

• Proponent: Letlowa La Khumo Trading (Pty) Ltd

• Consultant: ecologic AFRIKA planning & design studio

PO Box 798, ROBERTSON 6705

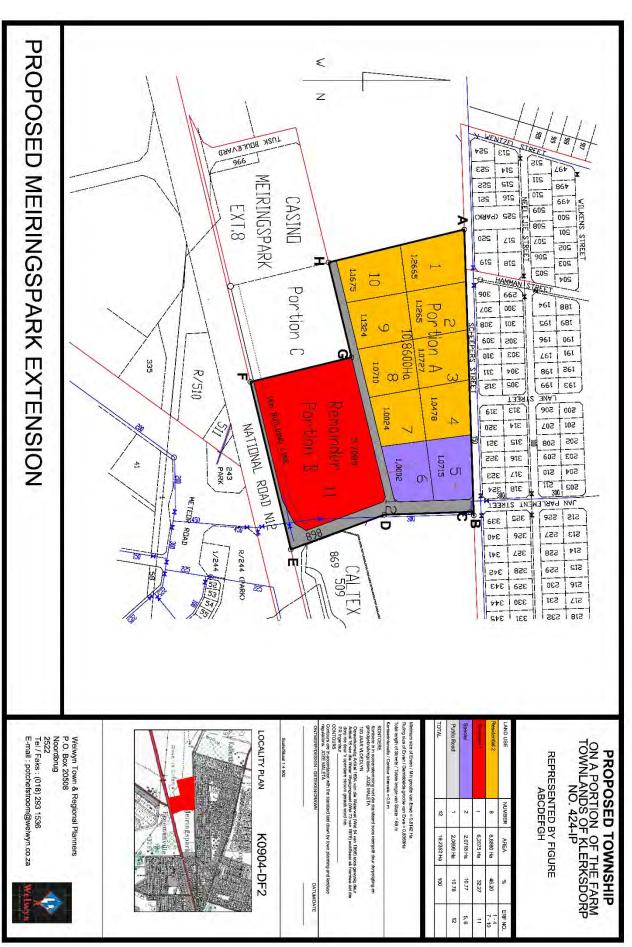
Tel 0836357315 Fax 0866483594

• Contact person: CJ Roos

Cell 0836357315

Date of Notice: 10 November 2022





Ian Roos

From:

lan Roos <ecologic@mweb.co.za>

Sent:

Thursday, 10 November 2022 07:18

To: Subject: 'trshibiti@klerksdorp.org'; 'info@peermont.com'; 'NRStat@nra.co.za' Notice of Application for EIA Authorisation for Portion 603 and Part of Portion 604

of Townlands of Klerksdorp 424-IP

Attachments:

Adj owner notify & notice.pdf; Locality & Proposed development.pdf

Please find attached the Notice for proposed development on the above properties. The previous notice expired prior to submission of the application to Province.

trshibiti: Please forward the notice to Councillor Mangesi, Ward 11 Peermont: Rio casino, adjacent to the proposed development NRstat: Proposed development along the N12 west of Klerksdorp

Regards Ian Roos 083 635 7315





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Property description ERF 519, MEJEINASSICK

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP. MATLOSANA (MEIRINGSPARK X10)

Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdom. The previous notice expired prior Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La to submission of the application.

Please study, as an Interested & Affected Party, the attacked Notice, Locality Plan and Layout Plan. Further information is available from our offices.

ecologic AFRIKA Kind regards



CJ Roos PrEAP Cell 0836357315

environmentally integrated and ecologically sustainable blanning design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +270()83 635 7315 • fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za pierre joubert larch@gmail.com web: www.ecologicafrika.co.za email: ecologic@mweb.co.za

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Euvironmental Management Act (Act 107 of 1998) of the application for an EIA Basic Assessment Authorisation, which will be submitted to North West Province's Department of Rural, Environment and Agricultural Notice is given in terms of Regulations published in Government Notice No R.324, 325, 326, and 327, according to Chapter 5 of the National Development for the purpose of:

- (Listing notice 1, Activity 27 clearance of an area of 1 hectares or more development inside an urban area bigger than 5ha on land previously Proposed mixed use development and clearance of indigenous vegetation of indigenous vegetation, and Listing notice 1, Activity 28i used for Agriculture).
- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP. Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:

Letlowa La Khumo Trading (Pty) Ltd Proponent:

ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:

Td 0836357315 Fax 0866483594

Cell 0836357315 Contact person:

10 November 2022 Date of Notice:

in the matter to the contact person given above within 30 days of the date of In order to ensure that you are identified as an interested and/or affected party please submit your name, association, contact information and interest this publication (by 10 December 2022 at 12h00 noon).



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Property description ERF 520, MEIRINGSSZEK

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Lettowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway. between the Rio casino and Shell ultra-city west of Klerksdom. The previous notice expired prior to submission of the application.

Please study, as an Inferested & Affected Party, the attached Notice, Locality Plan and Layout Plan. Further information is available from our offices.

Kind regards ecologic AFRIKA



CJ Roos PrEAP Cell 0836357315 environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(1)83 635 7315 • tex +27(1)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, centurion 0157 • tel +27(1)72 821 4982 e-mail: ecologic@mweb.co.za • plerrei_olobri_latch@gmail.com • web: www.ecologicafifika.co.za

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

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- Proposed mixed use development and clearance of indigenous vegetation (Listing notice 1, Activity 27 - clearance of an area of 1 hectares or more of indigenous vegetation, and Listing notice 1, Activity 28i development inside an urban area bigger than 5ha on land previously used for Agriculture).
- Property description; Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP. Mattosana
 - Property location: Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp.
 - Proponent: Letlowa La Khumo Trading (Pty) Ltd
- Consultant; ecologic AFRIKA planning & design studio
 PO Box 798, ROBERTSON 6705

Tel 0836357315 Fax 0866483594

Contact person: CJ Roos

Cell 0836357315

Date of Notice: 10 November 2022



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Property description FPF 8255, MEIENGFPARK

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and cleanance of indigenous vegetation adjacent north of the N12 freeway. between the Rio casino and Shell ultra-city west of Klerksdom. The previous notice expired prior to submission of the application.

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Kind regards ecologic AFRIKA

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CJ Ruos PrEAP Cell 0836357315 environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 * tel +27(0)83 635 7315 * fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2. Centurion 0157 * tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za * pierce.joubert.larch@gmail.com * web: www.ecologicatrika.co.za e-mail: ecologicatrika.co.za * pierce.joubert.larch@gmail.com * web: www.ecologicatrika.co.za e-mail:

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- Proponent: Letlowa La Khumo Trading (Pty) Ltd
- Consultant: ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705
 - Tel 0836357315
- Fax 0866483594
 - Contact person: CJ Roos
- Cell 0836357315
- Date of Notice: 10 November 2022



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Property description EEF 306, MEIRINGSPARK

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdom. The previous notice expired prior to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan, Further information is available from our offices.

Kind regards ecologic AFRIKA



CJ Roos PrEAP Cell 0836357315 environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(1)83 635 7315 • tex +27(1)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za • piera ioubert.larch@gmail.eco.za • www.ecologicatrika.co.za e-mail: ecologic@mweb.co.za • piera ioubert.larch@gmail.eco.za

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given in terms of Regulations published in Government Notice No R.324, 325, 326, and 327, according to Chapter 5 of the National Environmental Management Act (Act 107 of 1998) of the application for an ELA Basic Assessment Authorisation, which will be submitted to North West Province's Department of Rural, Environment and Agricultural Development for the purpose of:

- Proposed mixed use development and clearance of indigenous vegetation (Listing notice 1, Activity 27—clearance of an area of 1 hectares or more of indigenous vegetation, and Listing notice 1, Activity 28i—development inside an urhan area bigger than 5ha on land previously used for Agriculture).
- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
 - Property location: Along and north of the N12 freeway, between the Rio casing and Shell ultra-city west of Klerksdorp.

Proponent: Letlowa La Khumo Trading (Pty) Ltd

Consultant: ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705

Tel 0836357315

Fax 0866483594

Contact person: CJ Roos Cell 0836357315

Date of Notice: 10 November 2022



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Property description EZF 367, WEILINGSPAR

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MA TLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Busic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerk&dom. The previous notice expired prior to submission of the application.

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CJ Roos PrEAP Cell 0836357315 environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(p)83 635 7315 • fax +27(p)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(p)72 821 4982 e-mail: ecologic@mweb.co.za, • pierra_loubert.larch@gmail.com • web: www.ecologicalifika.co.za expending exologicalifika.co.za

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- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Property location: Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp.

Proponent: Letlowa La Khumo Trading (Pty) Ltd

Consultant: ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705

Tel 0836357315

Fax 0866483594

Contact person: CJ Roos

Cell 0836357315

• Date of Notice: 10 November 2022



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Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Lettowa La between the Rio casino and Shell ultra-city west of Klerksdop. The previous notice expired prior to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout

Plan. Further information is available from our offices.

ecologic AFRIKA Kind regards

Cell 0836357315 CJ Roos PrEAP

environmentally integrated and ecologically sustainable planning design & development Wicape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za · pierre joubert larch@gmail.com · web: www.ecologicafrika.co.za stronfing cologicarsus gasel adventures

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

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- (Listing notice 1, Activity 27 clearance of an area of I hectares or more Proposed mixed use development and clearance of indigenous vegetation development inside an urban area bigger than 5ha on land previously of indigenous vegetation, and Listing notice 1, Activity 28i used for Agriculture).
 - Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
 - Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:
 - Letlowa La Khumo Trading (Pty) Ltd
- ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:

Tel 0836357315

Fax 0866483594

CJ Roos Contact person;

Cell 0836357315

10 November 2022 Date of Notice;

in the matter to the contact person given above within 30 days of the date of In order to ensure that you are identified as an interested and/or affected party please submit your name, association, contact information and interest this publication (by 10 December 2022 at 12h00 noon).



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MEI BINGS PLOKE 38 Property description NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed nuixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Sheil ultra-city west of Klerksdorp. The previous notice expired prior to submission of the application.

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Cell 0836357315 CJ Roos PrEAP

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- (Listing notice 1, Activity 27 clearance of an area of 1 hectares or more Proposed mixed use development and clearance of indigenous vegetation development inside an urban area bigger than 5ha on land previously of indigenous vegetation, and Listing notice 1, Activity 28i used for Agriculture).
- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdom 424-IP. Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:
 - Letlowa La Khumo Trading (Pty) Ltd Proponent:
- ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:
- Tel 0836357315
- Fax 0866483594
- CJ Roos Contact person;
- Cell 0836357315
- 10 November 2022 Date of Notice;

party please submit your name, association, contact information and interest in the matter to the contact person given above within 30 days of the date of In order to ensure that you are identified as an interested and/or affected this publication (by 10 December 2022 at 12h00 noon).



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Khumo Trading (Pty) Ltd is applying to undertake an BIA Basic Assessment for proposed mixed between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Lettowa La use development and clearance of indigenous vegetation adjacent north of the NI2 freeway, to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan. Further information is available from our offices.

ecologic AFRIKA Kind regards



Cell 0836357315 CJ Roos PrEAP

environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • tax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 web: www.ecologicafrika.co.za e-mail: ecologic@mweb.co.za - pierre joubert.larch@gmail.com - susponing ecrologic@mweb.co.za - pierre joubert.larch@gmail.com

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- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP. Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:

Letlowa La Khumo Trading (Pty) Ltd Proponent:

ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant;

Tel 0836357315

Fax 0866483594

CJ Roos Contact person;

Cell 0836357315

10 November 2022 Date of Notice:



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Property description CIF 31, MEIRINGS 2137

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MA TLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic APRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdop. The previous notice expired prior to submission of the application.

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- Proposed mixed use development and clearance of indigenous vegetation (Listing notice 1, Activity 27 - clearance of an area of 1 hectares or more of indigenous vegetation, and Listing notice 1, Activity 28i -development inside an urban area bigger than 5ha on land previously used for Agriculture).
- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Property location: Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp.

Proponent: Letiowa La Khumo Trading (Pty) Ltd

Consultant: ecologic AFRIKA planning & design studio

PO Box 798, ROBERTSON 6705 Tel 0836357315

1cl 085055/515 Fax 0866483594

• Contact person: CJ Roos

Cell 0836357315

Date of Notice: 10 November 2022



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Property description CET 312, MEIRINGSARK

NO TICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MA TLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowu La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway. between the Rio casing and Shell ultra-city west of Klerksdorp. The previous notice expired prior to submission of the application.

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ecologic AFRIKA Kind regards



Cell 0836357315 CJ Roos PIEAP

environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 799, ROBERTSON 6705 • tel +27(1)83 635 7315 • fax +27(1)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WiERDA PARK X2, Centurion 0157 • tel +27(1)72 821 4982 e-mail: ecologic@mweb.co.za · pierre loubert.larch@gmail.com · web; www.ecologicafrika.co.za suporting ecologicames, gaset adentures

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- (Listing notice 1, Activity 27 clearance of an area of 1 hectares or more Proposed mixed use development and clearance of indigenous vegetation development inside an urban area bigger than 5ha on land previously of indigenous vegetation, and Listing notice 1, Activity 28i used for Agriculture).
- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdom 424-IP. Matlosana
 - Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:

Letlowa La Khumo Trading (Pty) Ltd Proponent:

ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:

Tel 0836357315 Fax 0866483594

CJ Roos

Cell 0836357315 Contact person

10 November 2022 Date of Notice:



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Property description CZF 3/9, WEIZINGSAZK

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON FORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424 IP, MATLOSANA (MEIRINGSPARK X10)

Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway. between the Rio casino and Shell ultra-city west of Klerksdom. The previous notice expired prior Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Lettowa La to submission of the application.

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- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
 - Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:
 - Letiowa Lu Khumo Trading (Pty) Ltd Proponent:
- ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant
- Tel 0836357315
- Fax 0866483594
- CJ Roos Contact person;
- Cell 0836357315
- 10 November 2022 Date of Notice:

in the matter to the contact person given above within 30 days of the date of In order to ensure that you are identified as an interested and/or affected party please submit your name, association, contact information and interest this publication (by 10 December 2022 at 12h00 noon).



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NO TICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424.IP, MATLOSANA (MEIRINGSPARK X18)

between the Rio casino and Shell tultra-city west of Klerksdorp. The previous notice expired prior Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, to submission of the application.

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ecologic AFRIKA Kind regards

Cell 0836357315 CJ Roos PrEAP

Environmentally integrated and ecologically sustainable planning design & development W Cape. CJ Rons. PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Markana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za . pierre.joubert.larch@gmail.com · web: www.ecologicafrika.co.za euponing schopicames, gespel adventures

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 - Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP. Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:
 - Letlows La Khumo Trading (Pty) Ltd Proponent:
- ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:
 - Tel 0836357315 Fax 0866483594
 - Contact person;
- Cell 0836357315
- 10 November 2022 Date of Notice;

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Property description EPF 321, MEIRINGSPIZE

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424.IP. MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Lid is applying to undertake an EIA Basic Assessment for proposed nuixed between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior use development and clearance of indigenous vegetation adjacent north of the N12 freeway. to stabmission of the application.

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ecologic AFRIKA Kind regards



CJ RODS PrEAP Cell 0836357315

erwironmentally, integrated and ecologically sustainable planning design & development W Cape: CJ Roos, PO Box 799, ROBENTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 648 3594 Gauteng: P Joubent, 15 Markana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4992 e-mail: ecologic@mweb.co.za • pierre joubert.larch@gmail.com • web: www.ecologicafrika.co.za euporting cologicwest gospel advantants W Cape: C 1 B-

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 - Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:

Letlowa La Khumo Trading (Pty) Ltd Proponent:

ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:

Tel 0836357315 Fax 0866483594

CJ Roos Contact person:

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10 November 2022

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322, MEIRINGSORY Property description ERF NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP **MATLOSANA (MEIRINGSPARK X10)**

Khu no Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed nuxed Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Lettowa La use development and clearance of indigenous vegetation adjacent north of the N12 freeway. between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan. Further information is available from our offices.

ecologic AFRIKA Kind regards

Cell 0836357315 CJ Roos PrEAP

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

EIA Basic Assessment Authorisation, which will be submitted to North Notice is given in terms of Regulations published in Government Notice No Environmental Management Act (Act 107 of 1998) of the application for an West Province's Department of Rural, Environment and Agricultural R.324, 325, 326, and 327, according to Chapter 5 of the National Development for the purpose of:

- Proposed mixed use development and clearance of indigenous vegetation (Listing notice 1, Activity 27 - clearance of an area of 1 hectares or more development inside an urban area bigger than 5ha on land previously of indigenous vegetation, and Listing notice 1, Activity 28i used for Agriculture).
 - Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:
 - Letlowa La Khumo Trading (Pty) Ltd Proponent:
- ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:
- Tel 0836357315 Fax 0866483594
- CJ Roos Contact person:
- Cell 0836357315
- 10 November 2022 Date of Notice:

party please submit your name, association, contact information and interest in the matter to the contact person given above within 30 days of the date of In order to ensure that you are identified as an interested and/or affected this publication (by 10 December 2022 at 12h00 noon).



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10 November 2022

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NOTICE OF PROFOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10)

Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior NoLice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan. Further information is available from our offices.

ecologic AFRIKA Kind regards

CJ Roos PrEAP Cell 0836357315

envirormentally integrated and ecologically sustainable planning design & development W Carper CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 648 3594 Gauteing: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 web: www.ecologicafrika.co.za e-mail: ecologic@mweb.co.za · pierre ioubert.larch@gmail.com · supporting ecologocyal adventure.

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

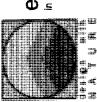
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 - Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:
 - Letiowa La Khumo Trading (Pty) Ltd
- ecologic AFRIKA planning & design studio Consultant:
 - PO Box 798, ROBERTSON 6705 Tel 0836357315

Fax 0866483594

- Contact person;
- Cell 0836357315 Date of Notice;
- 10 November 2022

In order to ensure that you are identified as an interested and/or affected in the matter to the contact person given above within 30 days of the date of party please submit your name, association, contact information and interest this publication (by 10 December 2022 at 12h00 noon).



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RETURN TECHERAL RENOTATIONS

10 November 2022

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Property description CEF 324 MEIRINGSYIRK

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic APRIKA planning & design studio, on behulf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdom. The previous notice expired prior to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan, Further information is available from our offices.

Kind regards ecologic AFRIKA

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CJ Roos PrBAP Cell 0836357315 environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 - tel +27(0)83 635 7315 - fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Canturion 0157 - tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za - plans.joupet.jarch@gmail.com - web: www.ecologicafrika.co.za suporting ect opiocaret garnelines

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

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- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP. Matlosana
- Property location: Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp.

 Rio casino and Shell ultra-city west of Klerksdorp.

Proponent: Letiowa La Khumo Trading (Pty) Ltd

Consultant: ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705

Tel 0836357315

Fax 0866483594

Contact person: CJ Roos

Cell 0836357315

Date of Notice: 10 November 2022



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Property description ERF 339, NEIRINGSPARK

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-JP, MA'TLOSANA (MEIRINGSPARK X10)

between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khu mo Trading (Pty) Ltd is applying to undertake an EIA Basic Assessment for proposed nuxed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan. Further information is available from our offices.

Kind regards

ecologic AFRIKA

Cell 0836357315 CJ Roos PrEAP

envirormentally, integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 648 3594 Gaute rg: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e. mail : ecologic@mweb.co.za · pierre ipubert.larch@gmail.com · web: www.ecologicafrika.co.za e.mail.com · web: www.ecologicafrika.co.za

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

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 - Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. Property location:
 - Letlowa La Khumo Trading (Pty) Ltd Proponent:
- ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:
 - Tel 0836357315
 - Fax 0866483594
 - CJ Roos Contact person:
- 10 November 2022 Cell 0836357315 Date of Notice;



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10 November 2022

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NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424.IP MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Pty) Ltd is applying to undertake an BIA Basic Assessment for proposed nuixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior to submission of the application.

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Kind regards

ecologic AFRIKA



Cell 0836357315 CJ Roos PrEAP

environmentally integrated and ecologically sustainable planning, design & development W Ca pe: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • fax +27(0)86 649 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 e-mail: ecologic@mweb.co.za • pierre.ioubert.larch@gmail.com • web: www.ecologicafrika.co.za exporting ecologica/mex gospal adventures

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT

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 - Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana
- Along and north of the N12 freeway, between the Ric casino and Shell ultra-city west of Klerksdorp. Property location:

Letlowa La Khumo Trading (Pty) Ltd Proponent:

ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:

Tel 0836357315

Fax 0866483594

CJ Roos Contact person:

Cell 0836357315

10 November 2022 Date of Notice:



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10 November 2022

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Property description EPF 243 LIRCANDVILLE

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MA TLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Lettowa La Khuno Trading (Pty) Lid is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the NI2 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior to submission of the application.

Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan, Further information is available from our offices.

Kind regards ecologic AFRIKA



CJ Roos PrEAP Cell 0836357315 erwironmentally integrated and ecologically sustainable planning design & development. W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 · let +27(ii)83 635 7315 · fax +27(ii)86 648 3594 Gauteng: P Joubort, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 · tel +27(ii)72 821 4992 e-mail: ecologic@mweb.co.za · plerre.joubert.larch@gmail.com · web. www.ecologicatrika.co.za e-mail:

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- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP. Matlosana
 - Property location: Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp.

Proponent: Lettowa La Khumo Trading (Pty) Ltd

Consultant: ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705

Tel 0836357315

Fax 0866483594

Contact person: CJ Roos

Cell 0836357315

• Date of Notice: 10 November 2022



environmental studies landscape architecture green building architecture	10 November 2022	PTN 511 of TOWNULANDS OF KLERKSDORF 424.1P
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NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNIANDS OF KLERKSDORP 424-IP, MA TLOSANA (MEIRINGSPARK X10)

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Property description ERF

Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khumo Trading (Ply) Ltd is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp. The previous notice expired prior to submission of the application.

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ecologic AFRIKA Kind regards

Cell 0836357315 CJ Roos PrEAP

environmentaliv integrated and ecologically sustainable planning design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(0)83 635 7315 • tax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 web: www.ecologicafrika.co.za e-mail: ecologic@mweb.co.za - pierre.jcubert.larch@gmail.com - supporting controllemas, gaspel enemtres

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Letlowa La Khumo Trading (Pty) Ltd Proponent:

ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:

Tel 0836357315

Fax 0866483594

CJ Roos Contact person:

Cell 0836357315

10 November 2022 Date of Notice;

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10 November 2022

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Property description R/PTW I OF TONNYCANDS OF KLERKSDIRP 424.1P

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON PORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10)

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Please study, as an Interested & Affected Party, the attached Notice, Locality Plan and Layout Plan. Further information is available from our offices.

ecologic AFRIKA Kind regards



Cell 0836357315 CJ Roos PrEAP

environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 798, ROBERTSON 6705 • tel +27(3)83 635 7315 • fax +27(0)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Centurion 0157 • tel +27(0)72 821 4982 web: www.ecologicafrika.co.za e-mail: ecologic@mweb.co.za - pierre.louberf.latch@gmail.com - e-mail: ecologic@mweb.co.za - pierre.louberf.latch@gmail.com

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- Along and north of the N12 freeway, between the Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP. Matlosana Property location:

Lettowa La Khumo Trading (Pty) Ltd

Rio casino and Shell ultra-city west of Klerksdorp.

ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705 Consultant:

Tel 0836357315

Fax 0866483594

CJ Roos Contact person:

10 November 2022 Cell 0836357315 Date of Notice: In order to ensure that you are identified as an interested and/or affected party please submit your name, association, contact information and interest

in the matter to the contact person given above within 30 days of the date of this publication (by 10 December 2022 at 12h00 noon).



ecologicafrika

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APPEARANCE	
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10 November 2022

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PLEGN 43.0 Property description 2/PIN SIC of TOWN DAVE OF KLEEKSTORP 424. IP

NOTICE OF PROPOSED ENVIRONMENTAL BASIC ASSESSMENT ON FORTION 603 AND PART OF PORTION 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424-IP, MATLOSANA (MEIRINGSPARK X10) Notice is hereby given that ecologic AFRIKA planning & design studio, on behalf of Letlowa La Khamo Trading (Pty) Lid is applying to undertake an EIA Basic Assessment for proposed mixed use development and clearance of indigenous vegetation adjacent north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdop. The previous notice expited prior to submission of the application.

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CJ Roos PtEAP Cell 0836357315 environmentally integrated and ecologically sustainable planning, design & development W Cape: CJ Roos, PO Box 799, ROBERTSON 6705 • tel +27(i)83 635 7315 • fax +27(i)86 648 3594 Gauteng: P Joubert, 15 Marikana Street, WIERDA PARK X2, Canturion 0157 • tel +27(i)72 821 4982 e-mail: ecologic@mweb.co.za • plerie.joubert.latrch@gmail.com • web. www.ecologicafilka.co.za e-mail: ecologicafilka.co.za

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- Property description: Portion 603 and Part of Portion 604 of Townlands of Klerksdorp 424-IP, Mattosana
- Property location: Along and north of the N12 freeway, between the Rio casino and Shell ultra-city west of Klerksdorp.
- Proponent: Lettowa La Khumo Trading (Pty) Ltd
- Consultant: ecologic AFRIKA planning & design studio PO Box 798, ROBERTSON 6705

Tel 0836357315

Fax 0866483594

Contact person: CJ Roos

Cell 0836357315

Date of Notice: 10 November 2022

List of AEGISTERED LETTERS Lys van GEREGISTBEERDE BRIEWE

(with an insurance option/met 'n versekeringsopsie)



Full tracking and tracing/Volledige volg en spoor

Name and address of sender: Ecologic Afrika



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No	Name and address of addressee	Insured amount	insurance fee	Postage	Service fee	Affix Track and Trace customer copy
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2	Christellof Beheerliggaan					REGISTERED LETTER (with a domestic insurance option) ShareCall 0860 111 502 www.sapo.co.za
	Posbus 2676, Klerkschorp 2571					RC223691503ZA CUSTOMER COPY 301028R
	CITY OF MATLOSANA					REGISTERED LETTER (with a domestic insurance option) ShareCall 0860 111 502 www.sapo.co.za
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	scheeperstruct 104, Meiringspark					REGISTERED LETTER
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	JH/A du Preez					REGISTERED LETTER (with a domestic insurance option) ShereCall 0860 111 502 www.sapo.co.za
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	Klubbeweg 62 Valhalla 0185					REGISTERED LETTER (with a domestic insurance option)
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Signature of client 

Signature of accepting officer

Handtekening van aanneembeampte...

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof.

Optional insurance of up to R200.00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentere bewys betaalbaar nie. Opsionele versekering van tot R2 000.00 is beskikbaar en is slegs binnelandse geregistreerde briewe van toepassing.

Date stamp

10-11-2022

reno J

Datumstempel

#### List of REGISTERS LETTERS

Lys van dereckt keerde brieve

(with an insurance option/met 'n versekeringsopsie)

#### Full tracking and tracing Volledige volg en spoor

Name and address of sender: Ecologic Afrika
Naam en adres van afsender: Postus 798



Enquies Naviae Sharecali number nominer 0860 111 502 www.postoffice.co.za

	Name and address of addressee	Insured amount	insurance tee	Postage	Service fee	Affix Track and Trace customer copy
No	Naam en adres van geadreseerde	Versekerde bedrag	Verseke- ringsgeld	Posgeld	Diensgeld	Plak Volg-an-Speur- Kilëntziskrii
1	MM/MS Seotlolla					REGISTERED LETTER (with a domestic insurance option) ShareCall 0600 111 502 www.sapo.co.za RC223691596ZA CUSTOMER COPY 301026R
2	MS/ DDE Seque 90 scheepesst, Meiringspork					REGISTERED LETTER (with a domestic insurance option) ShareCall 0880 111 502 www.sapp.00.28 RC223691605ZA CUSTOMER COPY 301028R
3	ME/LM NEEL 88 Scheepers St. Meingspark				Afficiance and the state of the	REGISTERED LETTER (with a domestic insurence option) ShareCall 0860 111 502 www.eapo.co.za RC223691619ZA CUSTOMER COPY 301020R REGISTERED LETTER
4	BM/ME Acpie Zail 86 Scheepers St Meiringspark					with a domestic insurance option) ShareCall 0899 111 502 www.sapo.co.zu RC223691622ZA CUSTOMER COPY 301028R REGISTERED LETTER
5	MP/MK Motloung POBOX 10892, Klesksdorp 2570					(with a domestic insurance option) ShareCall 0860 111 502 www.sspo.co.ze RC223691636ZA CUSTOMER COPY 301028R
6	PG/MY Lechesa/Senokwane 82 Scheepers St, Meiringspork			00/45442		REGISTERED LETTER (with a domestic insurance option) ShareCall 0860 111 502 www.eapo.co.za RC223691640ZA CUSTOMER COPY 301028R
7	EP/IH Kockemoe  [SanPorlement St. Meiringspark]					REGISTERED LETTER (with a domestic insurance option) ShareCall 0860 111 502 WWW.36po.c.za RC223691653ZA CUSTOMER COPY 301028R
8	JB Lekgonyane					REGISTERED LETTER (with a domestic insurance option) SharkCall (086) 111 502 www.sapo.co.za RC223691667ZA CUSTOMER COPY 301028R
9	MMAPHO Gas + Energy POBOX 3094 Rivoria 2128					REGISTERED LETTER (with a domestic insurance option) ShareCall 0808 111 502 www.sapc.co.ia RC223691675ZA CUSTOMER COPY 3010288
10	SHELL SA PO BOX 7469, Roggebouri 8012	The state of the s				REGISTERED LETTER (with a domestic insurance option) SharoCall 0860 111 602 www.sapp.oo.za RC223691684ZA CUSTOMER COPY 3010288
	nber of letters posted Totaal	P	R	R	R	enzazoni afrikaria di may

Getal briewe gepos
Signature of client

Handtekening van kliënt......

Signature of accepting officer

Handtekening van aanneembeampte......

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary

proof. Optional insurance of up to R200.00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentère bewys betaalbaar nie. Opsionele versekering van tot R2 000.00 is beskikbaar en is siegs binnelandse geregistreerde briewe van toepassing.

Date stamp

10 -11- 2022

Foio 3 evos

Datumstemper

#### List of REGISTERED LETTERS Lys van GEREGISTREERDE BRIEWE

(with an insurance option/met 'n versekeringsopsie)



#### Full tracking and tracing/Volledige volg en spoor

Optional insurance of up to R200.00 is available and applies to domestic registered letters only.

binnelandse geregistreerde briewe van toepassing.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n belef wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder

dokumentere bewys betaalbaar nie. Opsionele versekering van tot R2 000.00 is beskikbaar en is slegs

Nan Naa	ne and address of sender: Ecologic (- m en adres van afsender: Ecologic (-	frika	<i>λ</i>			Sharocall	
	16sVUS	\ <u> </u>				mbernommer 50 111 502	
	Robertson	- 670	5		الساسال	v.postoffice.co.za	
	Name and address of addressee	Insured amount	Insurance fee	Postage	Service fee	Affix Track and Trace customer copy	
No	Naam en adres van geadreseerde	Versekerde bedrag	Verseke- ringsgeld	Posgeld	Diensgeld	Plak Volg-en-Spoor- Kliëntafskrif	
1	GEMMUN PENSIDEN FONDS PO BOX 1455, SOMETH Z132					REGISTERED LETTER (with a domestic insurance option) ShareCall 0860 111 502 www.sapc.cza RC223691698ZA CUSTOMER COPY 301028R	
2	BLACK PAPEARANCE WHOLESALE					REGISTERED LETTER (with a domeste insurance option) ShareCail 0860 111 502 www.sapp.co.za RC223691707ZA CUSTOMER COPY 301026R	
3							
4							
	REGISTERED LETTER GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie)  Full tracking and tracing/Volledige volg en spoor	COLAICE	Postage pa fee/Diensge ce/Versekerin Total/Tota	eld R		c	
	Addressed to/Geadresseer aan  22 Tuenty Two entist  Ecologic Arrikg  Postcode	Insured value of contents Versekerde waarde van inhoud R Enquiries/Navrae Toll-free number Tolvry nommer			ting   B		
	The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registered letters only.	Affix Trac	111 502 ck and Trace mer copy	*	F	olio 3	
	Dis waarde van die inhoud van hierdie brief is soos aangedui en vergoeding sal nie betaal word vir n brief wat sonder voorbehoud onitvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 000.00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.	Plate Vo	ig-en-Spoor- nt <del>als</del> kril	Paraat aane bearr	3177	Datumstemper	
) V							
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Sia	nature of accepting officer odtekening van aanneembeampte.	<b></b>	P481229432444	EZZT MINIMOZNICZNY W OMAS	b.sizar	Date stamp Robertson	
-p-1	value of the contents of these letters is as indicated and compensal and the compensation is limited to R100.00. No compensation is limited to R100.00.	ition is not pa ation is paya	ayable for a leable without	etter receive documenter	d y	10 -11 - 2022	

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Datumstempel





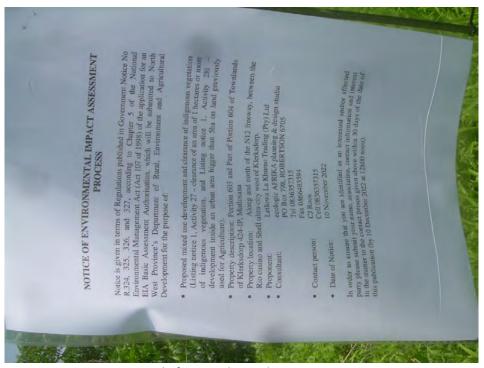
Proof of notice along N12 freeway



Detail of notice along N12 freeway



Proof of notice along Scheepers Street



Detail of notice along Scheepers Atreet



# TUINDIENSTE/ GARDEN SERVICES

#### (VERVOLG VAN P13)

DONVILLE BOOMSLO-PING EN VERWYDERING. Boomsloping, skoonmaak van persele, stompverwyder-ing asook vullisverwydering. Amos: 078 025 2983.

254956 14/10-02/12 ALLES-IN-EEN - met krimi neelvrye werkers sedert 2009. Afsaag van bome en snoei van struike. Eenmalige skoonmaak van tuine en leë skoonmaak van tuine en lee persele, asook enige rom-melverwydering. Gratis kwo-tasies en flinke diens. Skakel Ben gerus: 073 212 5483. 254975 21/10-11/11 INSTANT LAWN R5.00 per Roll Bermuda Grass / R8.50 per Roll Kilkhur, Grass / R8.50

per Roll Kikuyu Grass 065 8944272

website

#### 30 TRANSPORT/ **VERVOER**

ETTIENE MOTORS Vervoer Vervoer van meubels landwyd - tot stene en bourommel, niks te groot of te klein. Vragversekering is ingesluit. Ettiene: 083 995 0541. 253600 05/08-09/12

PC Vervoer. Ons vervoer iets van alles en doen kantoor-verskuiwing. Skakel Pieter by 083 612 5085/018 468 4130. 255095 11/11-18/11

VIR die verwydering van bou-rommel en tuinvullis, asook mini trekke en transport, skakel 083 239 9068.

255201 11/11 VERVOER klein hoeveelhede meubels in 'n toe trokkie met sleepwa. Verhuur ook sleepwaens in Stilfontein. Sal ook u motor bestuur. Drink en rook nie. Danie: 018 484 3840/083 357 5530, SMS: 072 779 7002

SMS: 072 779 7002: 242895 11/11-02/12 Enige goedere om optelaai of aftelewer landwyd en in omliggende dorpe. Het 2x Bakkies met 2x 6m trailers. Verskaf doeltreffende Johan 0842249682

website Countrywide transport, includ or open closed trucks. GIT Insurance included. Johan 0798923043.

website

#### 31 PHOTOGRAPHY/ **FOTOGRAFIE**

SALOMÉ KOTZE FOTOGRA FIE. Vir enige geleentheid wat jy vir altyd wil koester, skakel 0798767616 of stuur 'n e-pos na info@salomekotze 205465 10/07-R

#### 33 **MISCELLANEOUS** ALLERLEI

RUBBERISING van bakkies en sleepwaens. Canopy 018 464 1572. 184239 07/03-R

CANOPIES koop en verkoop, nuut en tweedehands, asook bakkie-bybehore. 018 464 1572.

184239 07/03-R GEELMIELIES te koop in 50kg sakke. Skakel 07

254393 19/08-16/12 254393 19/08-16/12
TE koop: Mooi gestreepte sonneblom, 12.5kg sakke. Ons
koop aan: tweedehandse
goedere, yskaste, vrieskaste,
meubels, ens. Ons is oop 7
dae per week. PJ Meubels:
079 544 1167.
254800 07/10-25/11

254800 07/10-25/11 SEEKOEIGAT VISVANG-OORD. Kantoorure: 07:00 - 18:00. 018 011 1715 / 082 - 18:00. 018 011 1/15 / 082 803 4783. Kom geniet die natuur en die stilte. Bekostig-bare verblyf en kampeerplek. Dagbesoekers welkom. Diere slegs met toestemming. 255014 28/10-22/12 DIREKTEURSLESSENAAR. B885. Sekretarreselles.

- R895. Sekretaresseles-senaar - R895. Skakel 083 226 3166.

Website (Petro) 04/11-11/11 WENDY HOUSES, 2.4 x 2.4 -R6500, 2.3 x 2.3 - R5500, 3 x 3 - R7500. 3 x 4 - R8500. 3 x 6 - R10500. 4 x 6 - R 16500. We do all sizes big or small. Whatsapp0724722067/079 135 8138

228053 04/11-11/11
TE koop: Panasonic boks-TV
- R400. Axis A80 bergfiets,
26ser - R2800. 084 951 3003

/ 082 312 5920. 255059 04/11-18/11 WINSKOOP! Hartbeesfontein. 150 swart voerlekbakke as blombakkegebruikteword @ R5 elk. Groente en blomme in hierdie bakke kan maklik rond geskuif word om die sonlig beste te kan benut.

255063 04/11-11/11 WE pay cashfor your unwanted gold and silver jewellery. Ven-ter Jewellers: 062 816 0187. Trusted since 1929. 255079 04/11-02/12

Ek sit LP's/musiekkassette oor op CD en/of geheuestokkie. Skakel Johan: 083 599 6762

# **MISCELLANEOUS** ALLERLEI

TWEE uitsoek-wooneenhede een in "frailcare" (hoësorg) en die ander in "mid care - assisted living" met uiters profes-sionele versorging en uitsoek personeel NOU beskikbaar in die uiters gesogte St Peter's die uiters gesogte St Peter's Garden Estate aftreeoord in Garsfontein in die ooste van Pretoria. Menlyn en verskeie inkoopsentrums en verskeie Inkoopsentrums en verskele goeie hospitale is net 'n klipgooi ver. Moenie hierdie unieke geleentheid deur u vingers laat glip niel Skakel PJ Theron op 082 452 3486 vir meer besonderhede of om 'n afspraak vir besigtig-ing te reël.

Petro/CT 04/11-R RUIM 2-slaapkamerwoonstel - R4000 per maand. Beskikbaar 1 Desember 2022, 082 327 8938 / 087 808 7153 255224 11/11

#### 34 FURNITURE/ **MEUBELS**

MEUBELS: Onspand, koop, ruil en verkoop enige artikel - van 'n knipmes tot 'n huis. Kom na Hennie Calitz en sy span by Pand vir Rand, Leaskstraat 73, of skakel 018 462 663

A34/R16 PJ MEUBELS. Ons koop en verkoop tweedehandse goe-dere. Het mooi gestreepte sonneblom te koop. Oop 7 dae per week. Sel: 079 544 1167.

254801 07/10-25/11

#### 35 VEHICLES/ VOERTUIE

DRINGEND op soek na motors en bakkies te koop. Lopend nie-lopend. Johan/Chrstelle: 082 262 5727/072 415 3107. 255070 04/11-11/11

TOP CARS ORKNEY. Ons koop en verkoop "cheapies", lopend en nie-lopende kondisie. Motors, bakkies, sleepwaens, motorfietse, ens. Skakel ons gerus dan maak ons u 'n aanbod. Lewer flink en vinnige diens. Skakel Andrew: 083 201 1068, Leon: 076 656 0342

A 11/11-18/11

#### 41 TV SERVICES/ TV-DIENSTE

The Cable Guy. Installation of DSTV, OVHD & Sound. Best prices & service. Jaco 0798197003

website
Aerial Pro: Installering van
DSTV, Explora, Exstra-view eksra punte. Perd

0832266034 website Sat-Man;Installeringvan DSTV, Explora, Extraview en OVHD. Skakel Werner 0824690049

website

## EMPLOYMENT/ **BETREKKINGS**

GRAPHIC DESIGNER beno dig. Vorige ondervinding. Handig CV in by Jetline of e-pos na klerksdorp@jetline. co.za of faks: 086 677 4525. 243077 03/09-R

DATAHUB. Werk van jou huis af. Stuur naam en e-pos-adres na Amanda: 072 476 7875. Le Rouxstraat 30 Klerksdorp. Ek verkoop ook

Kierksdorp. Ek Verkoop ook Herbalife. 255093 11/11-02/12 OVERVAAL PRIVAAT SKOOL benodig die dienste van 'n opvoeder vir die vakke. Geografie Gr 10-12, Sosiale Wetenskap Gr 7-9. Perma-Wetenskap Gr 7-9. Permanente SACE-registrasie 'n vereiste. Diensaanvaarding 9 Januarie 2023. Sluitings-datum 21 November 2022. Handig 3-bladsy CV in te

Klerksdorp. 255203 11/11-18/11 AVON. Need a job? Need an extra income? Matriculated, don't know what to do? Business opportunity for both women and men. Phone/whatsapp/SMS even a "please call me" Cheryl-Lyn at 083 287 0136.

255207 11/11-08/12 VINNIG groeiende kleinhan-delwinkel in Klerksdorp is op soek na 'n persoon met ondervinding in admin/ont-vangs/verkope. VEREISTES: Moet ondervinding hê van ten minste 2 jaar in admin/ verkope of ontvangs, rekenaarondervinding: Word, Excel, Powerpoint, Microsoft Outlook, briljant wees op Facebook, moet kanwerk met publiek en bitter baie geduld hê, bereid wees om werks-drukte beheer en in situasies leiding te kan gee en beheer neem daarvan. WERKSURE: Maandae tot Vrydae 08:00 tot 17:00. Salaris: geba-seer op ondervinding. Kan-didate kan asb CV e-pos na: thecalibre.srtc@gmail.com. Sluitingsdatum: 30 November 2022.

255216 11/11

# EMPLOYMENT/

COUNTER ASSISTANT benodig. Handig CV in by Jetline of e-pos na klerksdorp@jetline. co.za of faks: 086 677 4525. 255211 11/11-R

255211 11/11-R
Doors are still opned for this lucrative business opportunity,
take advantage now whatsapp name@0679484802

ashtonjohnsschool.co.za website

VACANCY: FOUNDATION PHASE EDUCATOR. Grade 1 & Grade 2 Teachers! Re-quirements: Qualified BEd to applications@ashtonjohnsschool.co.za

Opsoek na 'n Diesel Mechani tussen die ouderdom van 20-40. Ondervinding in Forklifts sal voordelig wees. Stilfon-tein. Salaris sal bespreek word met onderhoud. Stuur cv na admin@hiliftservices. co.za

website

# 47

UMZUMBE CHALETS, SUID-KUS (inveiligheidskompleks). 30km van Margate, 100km van Durban. Gesinsvrienvan Durban. Gesinsvriendelik, see-uitsig, 6-bed (3 slaapkamers). 8-16 Desember - R1000 per nag, 16-24 Desember - R1200 per nag, 24 Desember - 1 Januarie R1500 per nag, 0824482860.

## 49 MEENTHUISE/

een in "frailcare" (hoësorg) en die ander in "midcare - assist-ed living" met uiters professionele versorging en uitsoek personeel NOU beskikbaar in die uiters gesogte St Peter's Garden Estate Aftreeoord in Garsfontein in die ooste van Pretoria, Menlyn en verskeie inkopiesentrums en verskeie goeie hospitale is net 'n klipgool ver. Moenie hierdie unieke geleentheid deur u vingers laat glip niel Skakel PJ Theron by 082 452 3486 vir meer besonderhede of om 'n afspraak vir besigtig-

with open plan kitchen. garage with automatic garage doors, extra parking for 1 vehicle. Henk: 073 234 8593.

# HOUSES TO LET/

ORKNEY. Huis te huur: 3 slaapkamers, kombuis, sit-kamer, eetkamer, kantoor, spens, twee groot toegetoesluitafdak vir 2 voertuie toesluitatdak vir 2 voertuie, buitekamer. Naby laerskool en besighede. Goed omhein, koopkrag. Huurder betaal munisipale rekening. Ver-huurder betaal erfhelasting. huurder betaal erfbelasting. Skakel 018 4629414 of 084

255083 11/11
STILFONTEIN: Huis te huur.
Langtermyn. Ouer, blanke
mense sal gekeur word. By
middedorp. Deel-erf. R4500
p.m. 084 041 2170.
255209 11/11

#### 51 FLATS TO RENT/ **WOONSTELLE TE** HUUR

Well-secured and close to schools with parking. 1 bed starting from R1 400. Phone Thato: 063 782 9626, Moses: 079 665 8890

ORKNEY: Flats to let at Misty Waters and Eagle Creek starting from only R1500 for 234075 06/08-R starting from only R1500 for bachelors and R2000 for 1 bed. Phone Thato: 063 782 9626, Moses: 079 665 8890. 234075 06/08-R

#### 51 FLATS TO RENT/ **WOONSTELLE TE** HUUR

SPECIAL: 2-bed flats to let at Sophia Town and Sanlam (KFC Building) 4th floor from only R2000. Fandly House: 2 bed from only R2400. Neeltjie: 1 bed from only R1800. Special: Emerald Fern from only R2000 for bachelor flats. Call Thato: 063 782 9626, Moses: 079 665 8890 for more info 665 8890 for more info.

665 8890 for more info.
234072 06/08-R
SPECIAL at old SA Perm flats
to let from only R2 000 for 1
bed. Commitrade 108 next to
Home Affairs for only R2 000
for bachelors. Old Boston College behind Nedbank R1 800
for bed. Enquire about our
terms on key deposits.
Contact Thato: 063 782 9626,
Moses: 079 665 8890.
243073 06/08-R 243073 06/08-R

ROOSHEUWEL: Flats to let, safe and secure with parking, from only R1800. Contact Thato: 063 782 9626 or Moses: 079 665 8890.

242927 06/08-R FLATS to let at Engen Orkney (Indi Euro)with parking, brand new, from only R1500 for bachelors. Contact Thato: 063 782 9626 or Moses: 079 665 8890.

242927 06/08-R
2-SLAAPKAMERWOONSTEL
te huur naby Schoonspruit
Hoërskool. Dadelik beskik-baar. R4 300 p.m. en R4 300
deposito. Skakel Danie: 082 493 3969

253844 17/06-R KLERKSDORP: Gemeubi-leerde woonstel in Wilkoppies. Twee slaapkamers Geen LOADSHEDDING R2500 per maand plus R1500 vir dienste en in-ternet. Vir enkelpersone. Langtermynkontrakte kan onderhandel word. Ideaal vir kontrakteurs en besighede. Skakel 064 528 4214.

254999 21/10-11/11 NEAT and clean 1- & 2-bed-room flats to rent in Ellaton and Freemanville. Immediately available. Price range R3 150 - R4 200 p.m. Phone 076 264 5772. 255034 28/10-18/11

FLAT to rent in Elandia. Open plan flat, living room, dining room and kitchen, 1 bedroom, 1 bathroom with shower, suitable for 2 people. R3300 per month. Water & electricity in-cluded. Phone 072 953 1615. 255071 04/11-25/11

TWEE uitsoek-wooneenhede-eenin "frailcare" (hoësorg) en die ander in "mid care - assist-ed living" met uiters professionele versorging en uitsoek personeel NOU beskikbaar in die uiters gesogte St Peter's Garden Estate Aftreeoord in Garsfontein in die ooste van Pretoria, Menlyn en verskeie inkopiesentrums en verskeie goeie hospitale is net 'n klipgooi ver. Moenie hierdie unieke geleentheid deur u vingers laat glip niel Skakel PJ Theron by 082 452 3486 vir meer besonderhede of om 'n afspraak vir besigtig ing te reël

Petro/CT 04/11-R EENSLAPERWOONSTEL in Roosheuwel R2800 p.m. Sleuteldeposito - R2800. Water & ligte ingesluit. Mo-torafdak, veilig. Skakel Hen-nie du Plessis: 082 442 2582. 255098 11/11 WOONSTEL te huur. 2-slaap-

kamer met 2 badkamers. braaiarea, dubbelafdak vir 2 voertuie. Baie veilig omhein met mure. Naby klein Pick 'n Pay. R3800 p.m. Krag- en watermeters apart van huur.

255096 11/11
FLAMWOOD: Ruim 2-slaap-kamerwoonstel in veilige, rustige kompleks. Lekker stoep, 1ste vloer. Geen troeteldiere. R4500 p.m. 082 453 1592.

255208 11/11-25/11 WOONSTEL te huur in Son-gloed. 1 kombuis (groot), oopplan sit-/eetkamer, 1-slaapkamer, stort, toilet + wasbak, voorstoep. 1 wer-kende persoon - R3500 p.m. 2 persone - R4 200 p.m. Water pensionaris. Dadelik beskik-baar. Sel: 083 722 3749, tel: 018 469 2823

255214 11/11-25/11 RUIM 2-slaapkamerwoonstel - R4000 per maand. Beskikbaar 1 Desember 2022, 082 327 8938 / 087 808 7153 255224 11/11

#### 54 HOUSES FOR SALE **HUISE TE KOOP**

TE koop/for sale. 4-bedroom house on large stand, 2 bathrooms, dining-room, living room, kitchen, scullery, braai area, borehole. Outbuilding with shower and toilet. 2 x 1-bedroom flatlets. Carports. Rental income R10000 per month. Selling price - R800 000. Please phone/whatsapp Esta: 084 709 0740. 709 0740. 254762 23/09-R

254762 23/09-R
ORKNEY VAAL - R220000.
Lounge, open plan kitchen,
2 bedrooms, 1 bathroom,
carport, lots of build-on posibilities. ± 700 metre from the river. Henk: 073 234 8593 255222 11/11

die ander in "mid care - assisted living" met uiters professionele versorging en uitsoek
personeel NOU beskikbaar in
die uiters gesogte St Peter's
Garden Estate aftreeoord in
Garsfontein in die ooste van
Pretoria. Menlyn en verskeie
inkoopsentrums en verskeie vir meer besonderhede of om 'n afspraak vir besigtig-ing te reël.

HOUSE for sale. 3 bedrooms & 2 bathrooms + outside toilet. Newly fitted kitchen units with scullery. Dining-room and a living room. Garage, satellite dish for DStv and a spacious yard. Roosheuwel. Phone Johannes on 082 560 7217. Available on whats 255218 11/11-18/11

# 55 FLATS FOR SALE **WOONSTELLE TE**

slaapkamer, aangepaste stort, onderdakstoep, lieflike tuintjie en toesluit-enkelmotorhuis. Prys R430000. Tel: 082 339 5803.

Website 21/10-11/11
PANORAMAPARK. Woonstel te koop. 2 slaapkamers, 2 badkamers, kombuis, sitkamer, eetkamer, 2 motorhuise aan huis, 110 vierkante meter. Prys onderhandelbaar. Skakel: 018 406 4077/070 663 0330 072 660 3239.

255215 11/11
Panoramapark retirement village - 2 bedroom apartment

website

#### 58 **BUSINESS** / BESIGHEDE

p.m. Thato: 063 782 9626 or Moses: 079 665 8890. 242926 06/08-R

ENGEN Orkney: Brand-new shops to let from only R2 500 p.m. Contact Thato: 063 782

242925 06/08-R
SHOPS to let Klerksdorp CBD.
Neeltjie Buildring, Anderson
Street from R3000 p.m. Old
Perm Buildring, Anderson
Street from R4000 p.m. Voortrekker Street, Two Seasons
Building from R1000 p.m.
Contact Thato: 063 782 9626
or Moses: 079 665 8890.
242925 06/08-R
SHOPS to let at Klerksdorp
taxi rank in My Prime Building
from only R2 000 p.m. Moses:

5 kantore. R20000 BTW ingesluit. Prys onderhandel-baar. Gebou is ook te koop. Skakel Danie: 082 493 3969. 254416 28/10-R

Website 21/10-11/11 BUSINESS premises to let. CBD - R27000, 378 square metres. Very busy corner in Church Street near OK.

solar components contact me at 0836378505

# ADULT/

STILFONTEIN. Volwasseblou-oog rooikop. Eensaam en alleen. Massering en meer.

blou Oto, Kamagra pille/jelly/ bruistablette. Skakel 076 509 9956. 253108 11/03-R AANTREKLIKE 43-jarige blond vir lekker kuiertjie. Baie privaat. Werk alleen. Maandae tot Voor alleen. Maandae tot

STOUTE meisie. Speel, movies. Kom speel. Baie veilig en privaat. Sel: 071 342 4838.

254757 23/09-11/11 BLOU-OOG blond. Kom speel lekker saam my Movies en meer. Slegs blank. Tel: 072 958 8327. 254965 21/10-11/11

## ADULT/ VOLWASSE

PROFESSIONAL/SENSUAL MASSAGE. Come relax and de-stress! Topclass African therapist on duty. Fullhouse therapist of odly. Full house service available with a happy ending. Shower facilities + safe covered parking inside. Only white gentlemen welcome. It's my personal choice! Phone 082 846 9011.

254979 21/10-11/11
IN a rush? Need a quick fix?
Come and see me for a mind
blowing full house treatment.
Phone Sammy: 078 699 255068 04/11-18/11

Jong, sexy boere dame beskik-baar vir vollyf maserings en meer. Sintie 0768613556

website

# GEREGTELIKE KENNISGEWINGS

### **LEGAL NOTICES**

NOTICE TO CREDITORS IN

DECEASED ESTATES

LL persons having claims against the undermentioned estate must lodge it with the Executor concerned within 30 days from date of publication

Estate Number: 006093/ Master's Office: Mahikeng.

Surname: ZULCH. Christian Names: PATRICIA CLAIRE Identity Number: 301205 0001 08 2. Last address: 11 Kritzinger

Avenue, Flamwood, Klerks-dorp, 2572. Date of death: 10 February



NAME AND ADDRESS OF EXECUTOR OR AUTHOR-ISED AGENT: Oosthuizen Du Plooy Attorneys, P O Box 22, Klerksdorp, 2570. Tel: 018 468 4940. Reference: Z55/N SULAMAN.

# NOTICE OF SALE IN EX-

NOTICE OF SALE IN EX-ECUTION

IN the Commission for Concili-ation, Mediation and Arbitra-tion. Held at Klerksdorp, Case Number: NWKD1944-20.

In the matter between:
KHOAHANOFRANCISTJOLA
& 8 OTHERS Applicant MAN MOROKO ALICIOUS

NTHUSANG TRADING EN-TERPRISE

Kindly take notice that in Execution of an Enforcement of an Award in the CCMA of North West dated 25 October 2 2022 via public auct Civic Centre, Some et Av enue. Stilfontein by e Sheriff of the Court to bidderforcashva 1 x Mercedez F er (DVK 712N) R70000. 1 x BN e, namely: nz Sprint-) - Value: W X2 (JXL 711NW) -Val R50000. 1 Nissan Bus LF 228NW) Value: R900 Benz Sprint - Value: R60 Total Estimated value - B270,000,00 Dated at (lerksdorp on 2

November WILLIE B NEYS, 49 Klerksdorg, OSCH ATTOR-Siddle Street, P O Box 5312, p. 2576. Tel: 018 Fax: 086 710 Doringkruir 462 0407 8854 Finail: ail: willie@wb-.za. Ref: T0033/

K2 11/11

#### LOST OR DESTROYED DEED IOTICE is hereby given in terms of Regulation 68 of the Deeds Registries Act NOTICE

1937, of the intention to ap ply of the ssue of a certified leed of Transfer 021 passed by HILIP MOTSWA-Number: 460715 NA, Identit MAMABITI MOTSWANA MAMABILLE MOTSWANA, Identity Number: 600726 0712 08 7, married in community of property to each other, in favour of ELISA EMILY MOTSWANA, Identity Number: 8206 4 0897 08 8, spect of Erf Extension unmarried in re 5787 Jouberton 10 Township, A Division IP, Prov egistration nce North West, measuring: 200
hundred) square metre
extent which has been
or destroyed.
All interested persons he 200 (two

objections to the issue of such copy are hereby require lodge the same in writin with the Registrar of Deed at Pretoria within two week from the date of the publication of this notice. Dated at Klerksdorp on 7

November 2022. APPLICATION BY: Mandisa Mashologu, Conveyancer at: Mashologu Incorporated, 14 Knowles Street, Wilkop-pies, Klerksdorp, 2571, P

O Box 6262, Wilkoppies, 2572. Email: vannessa@mashologu-inc.co.za. Tel: 018 4623070/061 503 1172. Fax: 018 462 3067 K4 11/11

NOTICE OF A BASIC AS-SESSMENT REPORT IN TERMS OF THE AMEND-ED ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014

HEGULATIONS, 2014
Tis the intention of the SOUTH
AFRICAN NATIONAL
ROADS AGENCY (SOC)
LTD (SANRAL) to rehabilitate
the R504, Section 4, national road between Leeudoring-stad and the North West Province/Free State Province border. The start of the project is the R504/R502 intersection iust outside of Leeudoringstad (0.0km) and the project ends on the Free State Province side of the Vaal River Bridge (24.1km).

(24.1km).

The project will include: road rehabilitation through base patching, rut infilling, paving of the surface and re-compaction and shaping of the shoulders. Culvert re-babilitations that our driver. habilitation of the Leeudoringspruit and Klipspruit through backfilling of the embank-ments, installation of gabion mattresses for protection from possible erosion and adding concrete side drains. Rehabilitation of the Vaal River Bridge will entail backfilling, reparation/replacement and implementation of embankment protection measures of the extensively eroded south eastern and north western embankments and the repa-ration of spalled piers above and below water lever.

Notice is hereby given in terms of Activity 19 of Listing 1 of the NEMA Regulations - "The infilling or depositing of any material of more than 10ms into or dredging, excavation, removal or moving of vation, removal or moving of soil, sand, shells, shell grit pebbles or rock of more than 10m³ from a watercourse", and environmental authorisa-tion needs to be applied for. The Basic Assessment Report process will be conducted

por process will be conducted and submitted to the National Department of Forestry, Fisheries and Environment who is the competent authority for the roads project. An application for General Authorisation forwater use will be submitted to the Department of Water and Sanitation. Sourcing of material will be through existing commercial sources. Chameleon Environmental was appointed as independent environmental consultants to undertake the application for environmental authorisation for the proposed road project. Should you wish to register as an Interested and/or Affected Party or comment on the environmental process please forward your contact details and comments to Paul Bothma of Chameleor Environmental in writing at Fax 086 637 7786 or email ce.pe@mwebbiz.co.za bece. pe@mweddiz. fare 10 December 2022. K5 11/1

# NOTICE OF ENVIRONMEN-

1998) of the application for an EIA Basic Assessment Authorisation, which will be submitted to North West Province's Department of Bural Environment and Agri-Rural, Environment and Agri cultural Development for the purpose of:

Proposed mixed use de-velopment and clearance of indigenous vegetation (Listing Notice 1, Activity 27 clearance of an area of 1 hectare or more of indigenous vegetation, and Listing Notice 1, Activity 28i - development inside an urban area bigger than 5ha on land (previously

and Shell Ultra City west of Klerksdorp.
Proponent: LETLOWA LA
KHUMO TRADING (PTY)

Consultant: Ecologic AFRIKA Planning & Design Studio P O Box 789, Robertson, 6705. Tel: 083 635 7315, fax: 086

648 3594. Contact person: CJ Roos, Cell: 083 635 7315 Date of notice: 10 November

and/or Affected Party please submit your name, associa-tion, contact information and contact person given above within 30 days of the date of this publication (by 10 December 2022 at 12:00 noon).

K6 11/11

LOST TITLE DEED

ONCE is hereby given in terms of Regulation 68 of the Deeds Registries Act, 1937, of the intention to apply for the issue of a certified copy of Deed of Transfer T20368/2017, passed by WILLEM ADRI-AAN CARSTENS, Identity Number: 620721 5057 08 9, unmarried in favour of MAGRETHA JOHANNA CARSTENS, Identity Num-ber: 641201 0118 08 2, unmarried in respect of one half share in and to Erf 415 La Hoff Township, Registration Division IP, Province North West, which has been lost or

destroyed. All interested persons having objections to the issue of such copy are hereby required to lodge the same in writing with the Registrar of Deeds, Pre-toria within two weeks from the date of the publication of



KATIEELIZABETH DUTOIT, Conveyancer Meyer Van Sit-tert & Kropman Attorneys. Tel: 0184749200. Refe/rence: KE

the notice.

DU TOIT/C260. K7 11/11

LOST TITLE DEED

NOTICE is hereby given in terms of Regulation 68 of the Deeds Registries Act, 1937, of the intention to apply for the issue of a certified ply for the issue of a certified copy of Deed of Transfer T146651/2007, passed by CORNELIUS MARTHINUS VAN ANTWERP, Identity Number: 770317 5066 08 5 and JOHANNA MARIA VAN and JOHANNA MARIA VAN ANTWERP, Identity Number: 780514 0041 08 3, married in community of property to each other in favour of WIL-LEM ADRIAAN CARSTENS, LEM ADRIAAN CARSTENS, Identity Number: 620721 5057 08 9, and MAGRETHA JOHANNA CARSTENS, Identity Number: 641201 0118082, marriedout of community of property in respect of Erf 415 La Hoff Township, Registration Division IP, Province North West, which has been lost or destroyed. All interested persons having objections to the issue of such copy are hereby required to copy are hereby required to lodge the same in writing with the Registrar of Deeds, Pre-toria within two weeks from the date of the publication of the notice.



KATIEELIZABETHDUTOIT, Conveyancer Meyer Van Sit-tert & Kropman Attorneys. Tel: 018 474 9200. Reference: KE DU TOIT/C260.

LOST OR DESTROYED

DEED DEED
NOTICE is hereby given in terms of Regulation 68 of the Deeds Registries Act, 1937, of the intention to apply for the issue of a certified copy of Covering Indemnity Mort-gage Bond No. B10871/2017 gage Bond No. B10871/2017 passed by MAGRETHA JO-HANNA CARSTENS, Identity Number: 641201 0118 08 2, for a capital amount of R700000.00 (seven hundred thousand Rand) in favour of Absa Bank Limited, Registra-tion Number: 1986/004794/ 06 in respect of certain Eff 415 La Hoff Township, Reg-istration Division IP. Province stration Division IP, Province forth West, measuring 1 338 the thousand three hundred the thirty eight) square me-es, which has been lost or

eved. destrayed.

All persons having objections to the replacement are hereby required to lodge the same in writing with the Registrar of Deeds at Pretoria within two weeks from the date of publication of this notice Dated at erksdorp on 8



APPLICANT: Meyer Van Sittert & KROF Avenue, Flamw dorp. Email add mvsk.co.za. Confact number 018 474 9200

K9 11/11 WARNING

#### ALL ADVERTISEMENTS RELATING TO:

Loans and finarcing Hire purchase problems/ Transfer of instalments Business opportunities Investments velopes The filling of

Work at home Earn extra mo sitions * Part-time w

MUST c tain the lowing inf number

e are the rements and NO requ

exceptions will be made. advertisements are d with the approval the National Press Inion and it is our

Union and it is our responsibility as an advertising medium to ensure that these rules are strictly adhered to. However, it still remains the responsibility of the buyer or consumer to thoroughly investigate the trustworthiness of the advertiser with whom they are doing business.

(VERVOLG OP P15)

# BETREKKINGS

TEACHER VACANCY INTER-

EACHER VACANCY INTER-MEDIATE PHASE EDUCA-TOR. Computer Science | Afrikaans second language | General Science | English home language. Require-ments: BEdorrelated. Degree with a PGCE SACE Regis-tered - minimum of two years tered - minimum of two years experience. Starting Date: 4 January 2023. Closing date: 15 November 2022. Email: Cv And Cover Letter To applications @

Degree or Bachelor's Degree with relevant PGCE SACE registered. Min. 2 years ex-perience. Cambridge or IEB knowledgewould be preferred. Indicate extramural interests and expected salary. Starting Date: 4 January 2023. Ensure to include the required information. If you have not heard from us within two weeks please regard the application as unsuccessful. Closing date: 15 November 2022. Email: Cv

website

# **HOLIDAY RESORTS/ VAKANSIE-OORDE**

R1 000 per nag. 082 448 2860. 255212 11/11-02/12

**TOWNHOUSES** TWEE uitsoek-wooneenhede

ing te reël Petro/CT 04/11-R WILKOPPIES - R7900 p.m. Neat 2-bedroom townhouse, 1 bath with shower, lounge

HUISE TE HUUR

701 5760. 255083 11/11

MANZII PARK: Flats to let

# HOUSES FOR SALE **HUISE TE KOOP**

TWEE uitsoek-wooneenhede-een in "frailcare" (hoësorg) en die ander in "mid care - assist-Inkoopsentrums en verskeie goeie hospitale is net 'n klipgooi ver. Moenie hierdie unieke geleentheid deur u vingers laat glip niel Skakel PJ Theron op 082 452 3486

Petro/CT 04/11-R

# KOOP

PANORAMAPARK: Ruim een-

Website 21/10-11/11

for sale, very safe and a lot of extra perks. Contact Pik-kie Viljoen at 0825823131

SHOPS to let in Boom Street, old Boston Buildi from R3 500

9626 or Moses: 079 665 8890 242925 06/08-R

from only R2 000 p.m. Moses: 079 665 8890 or Thato: 063 782 9626. 242925 06/08-R GROOT besigheidsperseel te huur. 1 400m² onderdak met

254416 28/10-R URGENT SALE! Butchery, supermarket, take-away, ice cream business. Owner relo-cating. Phone 065 529 0694.

Phone Henk: 073 234 8593. 255220 11/11 For loadshedding solutions and

# 60 VOLWASSE

Slegs per afspraak. 073 348
6246. Slegs blankes. Geen
SMS, whatsapp of privaat nommer sal beantwoord word nie.
252838 12/08-15/12 MANS Performance pille bruin/

Vrydae 08:30 tot 17:00. Geen privaatnom-mers. Slegs blank-es. Jacky: 076 548 4027. 254970 21/10-18/11

Nuut in potchefstroom groen ogies, plaas meisie.Vir lek-ker plesier . Pvt en deskreet. 0784195956

NOTICE OF ENVIRONMENTAL IMPACT ASSESS-MENT PROCESS

NOTICE is given in terms of Regulations published in Government Notice No. R. 324, 325, 326 and 327, according to Chapter 5 of the National Environmental Management Act (Act 107 of 1998) of the application for 1998 of the application for

than sha on land (previously used for agriculture).
Property description: Portion 603 and part of Portion 604 of Townlands of Klerksdorp 424-IP, Matlosana.
Property location: Along and north of the N12 freeway, between the Rio Casino

In order to ensure that you are identified as an Interested interest in the matter to the

#### APPENDIX B4 – IAP REGISTER

NO IAPs REGISTERED

### **APPENDIX B5 – IAP COMMENTS AND RESPONSES**

NO IAPS REGISTERED. NO COMMENTS AND RESPONSES



## City of Matlosana

SG Mabuda PO Box 99, KLERKSDORP 2570

Cell: N/A

Tel: 0184878300 Fax: 0184626023 e-mail: N/A





# CIVIL ENGINEERING SERVICES REPORT

#### PROPOSED TOWNSHIP ESTABLISHMENT IN MEIRINGSPARK

# ON PORTION 603 OF THE FARM TOWNLANDS OF KLERKSDORP 424 IP

#### **KLERKSDORP**

#### NORTH WEST PROVINCE



#### Prepared for:

LETLOWA LA KHUMO TRADING (PTY) LTD PO BOX 2869 KLERKSDORP 2570 Prepared by:

MDCC (PTY) LTD PO BOX 14140 FLAMWOOD WALK 2535

Tel.: 018 468 8000 Fax: 018 468 8020

Date: 8 March 2011



#### **PROJECT DETAILS**

TITLE : Civil Engineering Services Report for Proposed

Township Establishment on Portion 603 of the farm Townlands of Klerksdorp 424 IP, Klerksdorp,

**North West Province** 

**COMPILED BY** : A Gabru, JH Herholdt

**CLIENT**: Letlowa La Khumo Trading (Pty) Ltd

**REPORT STATUS**: Version 1

**REPORT NUMBER** : 4321/3/2011

**SUBMISSION DATE**: 8 March 2011



#### CITY OF MATLOSANA

#### PROPOSED MEIRINGSPARK EXTENSION, KLERKSDORP

#### **CIVIL ENGINEERING SERVICES REPORT**

SERVICES REPORT FOR NEW TOWNSHIP ESTABLISHMENT ON PORTIONS 603 AND 604 OF THE FARM TOWNLANDS OF KLERKSDORP 424IP, KLERKSDORP, NORTH WEST PROVINCE

#### 1. Introduction and Background

**MDCC** (Pty) Ltd has been approached to compile a report on civil engineering services for the proposed township establishment on Portions 603 of the farm Townlands of Klerksdorp 424 IP. The development consists of:

#### 10 x residential 2 erven

The proposed township is situated in the area of jurisdiction of the City of Matlosana. The township will form part of the urban area of Klerksdorp, North West Province. It is bordered by the existing Meiringspark and Meiringspark Extension 2 townships to its north and undeveloped land to the west, south and east.

The township will be completed in one (1) Phase for installation of engineering services.

#### 2. Topography

The site gradually slopes from south to north at an average incline of 1.0%. The average level of the township is 1 327 m above mean sea level. The area is covered with grass and the remaining of vandalized infra-structure of a drive-in theatre.

No rocky outcrop is visible on surface level.

#### 3. Guidelines for provision of Civil Engineering Services

The report is based on standards as described in the publication "Guidelines for Human Settlement Planning and Design" which will be used as a guideline for the design of external and internal services for the proposed township.

Specific services requirements of the Local Authority will be incorporated in the design thereof. General assumptions and levels of service pertaining to this project are discussed below.

#### 4. Drawings

The following drawings are attached indicating the proposed civil engineering services to be installed:

Drawing no 4321/0003 Water network
Drawing no 4321/0002 Sewer network

Drawing no 4321/0001 Roads and Stormwater



#### 5. Provision of Bulk Civil Engineering Services

The City of Matlosana is the Water Services Authority in terms of the National Water Act for the Local Authority area of jurisdiction.

It is foreseen that the development will be provided with bulk services from existing infrastructure in adjacent developed areas.

#### 5.1 Bulk Water Supply

The total annual average daily water demand for this township is estimated to be 315 kl/day for the potential number of 263 Residential 2 dwelling units.

The proposed township is to be serviced by the Alabama reservoirs with a combined capacity of 47.0 Ml. The top water level of the 17.5 Ml reservoir is 1375.14 m and a floor level of 1365.40 m.

The current average daily demand from the reservoir is 16.003 Mt that requires a storage capacity of 32.006 Mt. The estimated additional reservoir storage capacity required for the proposed township is 0.63 Mt, which can be accommodated in the reserve storage capacity in the reservoirs.

The Alabama reservoirs are supplied with water from Midvaal Water Company via the Ellaton pumpstation and pumpline system.

The bulk water supply pipes from the Alabama reservoirs to the townships of Meiringspark, Freemanville, De Clerqville and Uraniaville, is amongst others a 300 mm dia fibre cement pipe situated in the extension of Jan Parlement Street. Sufficient capacity in the bulk water-supply pipe is available.

The static water pressures within the township will vary between 310 and 340 kPa.

Connections for the internal water network will be made to the existing 300 mm dia fibre cement water main in Jan Parlement Street extension by means of cutting and installing T-pieces

The township is situated within an existing zone water metering area and will therefore no separate zone water metering is foreseen for the township.

#### 5.2 <u>Bulk Sewage Disposal</u>

The proposed township drains towards the existing sewer network in Meiringspark Township. The sewer network discharges into the existing Meiringspark outfall sewer with diameters increasing from 300 mm to 375 mm.

The Meiringspark outfall sewer discharges in the 1 050 mm dia Schoonspruit outfall sewer. The Schoonspruit outfall sewer discharges into the Swart Street sewerage pumpstation from where sewage is pumped to the Klerksdorp Waste Water Treatment Plant.

Sewage is treated at the Klerksdorp Waste Water Treatment Plant with a capacity of 36.0 Ml/day. Currently the plant handles on an average of 26.9 Ml/day.



The total average daily sewage flow for the proposed township is 198 kl/day. The Waste Water Treatment can accommodate the additional flow from the township.

The proposed sewer network for the township will gravitate and link with the existing sewer gravity network situated on the corner of Scheepers Street and Lane Street in Meiringspark.

Due to the limited capacity of the existing sewer network in Meiringspark, the development on the proposed Residential 2 erven in the township should be limited to a density of 40 dwelling units per hectare and 60% coverage on the erven, totalling 263 dwelling units.

#### 5.3 Access and Storm water Disposal

The main access to the township will be directly from the adjacent Scheepers Street and from the extension of Jan Parlement Street to the south. The future extension of Jan Parlement Street to the south will link Scheepers Street with the national N12 route by means of a traffic light controlled intersection. The internal road within the township will form a temporary cul-de-sac which will be extended to the west with future township development of the City of Matlosana.

Storm water from the development will be collected by means of the streets acting as surface channels from where storm water will be transported via the road to the existing kerb inlets located in Hamman Street and Scheepers Street and then transported into existing concrete storm water pipes to the natural stream being a tributary of Schoonspruit.

#### 6. Provision of Internal Civil Engineering Services

The general assumptions and levels of service for internal services pertaining to this township are indicated below.

#### 6.1 Water Supply

#### 6.1.1 Design Standards

The design standards, which are assumed applicable to the development, are summarised in the table below.

Service	Item		Criteria		
Average water demand	Average Daily Water Demand (ADWD):				
	Residential 2 10 263 Units		1 200 {/residential unit		
	Sustained Summer Daily Water Demand (SSDWD)  Peak flow (PF) (supply/storage)			1,2 x ADWD	
				2 x ADWD	
	Peak flow (PF) (network)			4 x ADWD	
Velocity	Velocity Maximum			1,2 m/s	
Preferred				0,6 m/s	



Pressures	Minimum peak flow	240 kPa	
	Maximum	900 kPa	
Fire requirements	Risk category	Moderate Risk	
	Hydrant flow (minimum)	1 500 {/min	
	Head (minimum)	150 kPa	
	Hydrant spacing (maximum)	180 m	
	Hydrant type	Below ground level, London V-threaded outlet	

#### 6.1.2 Internal Water Reticulation

The network of the proposed development will be designed to cater for the peak demand as well as for the required fire flow for moderate risk development.

The internal water reticulation system will consist of 160 mm dia uPVC (Class 9) mains, approximately 530 m long situated within the proposed public road along the southern boundary of the township. This new 160 mm water main will tie with the existing 300 mm dia bulk supply pipe.

Provision will be made for fire hydrants and isolation valves on the new water network. Additional fire hydrants will be installed on the existing 150 mm dia water main in Scheepers Street.

Water connections for each erf will be made to the existing 150 mm dia fibre cement water main in Scheepers Street and the new 160 mm dia uPVC pipe. Metered erf connections will only be installed once development of the various erven commences and upon application with the municipality and at a cost to the developer of the erf.

Metered water consumption will be paid for by the consumer to the municipality by means of the applicable water tariff structure of the municipality based on actual meter readings.

#### 6.2 <u>Sewage Disposal</u>

#### 6.2.1 Design standards

The design standards, which are assumed applicable to the development, are summarised in the table below.

Service	Item		Criteria	
Average daily	Dry weather (ADDWF):			
sewage flow	Residential 2	10 erven	263 units	750 ℓ/residential unit
Wet weather (ADWWF)			1,2 x ADWD	
Peak factor (PF)				2.8
Minimum pipe Ø			160 mm	
Minimum flow velocity				0,7 m/s (full flow)



Peak design flow		90% of full bore capacity of pipe
Allowance for extraneous flows		15 %
Manholes	Precast circular sections with step-irons	1 000 mm dia
	Spacing (maximum)	90 m

#### 6.2.2 Internal Sewerage Reticulation

A conventional waterborne gravity sewage disposal system will be installed with a manhole spacing of maximum 90m. Sewer pipes will be 160 mm dia uPVC class 34 solid wall with fitted couplings.

The sewer network will be situated along erf boundaries internally and within road reserves externally.

Provision will be made for a marked sewer connection for each erf. Connections will consist of a y-junction from the 160 mm dia main sewer with a 110mm dia pipe to each erf.

Manholes will consist of 1 000 m dia pre-cast concrete sections with step irons for access and heavy duty lids.

#### 6.3 Access Streets

#### 6.3.1 Design Standards

The design standards, which are assumed applicable to the development, are summarised in the table below.

Service	Item	Criteria
Local distributor	Road Category	Class 4
	Traffic Class	E3 (1.0-3.0 x 10 ⁶ E80's)
	Surfaced Width	8,0 m
Residential access	Road Category	Class 5a
collectors	Traffic Class	E1 (0,3-1.0 x 10 ⁶ E80's)
	Surfaced Width	7,0 m
Residential access	Road Category	Class 5b
roads	Traffic Class	E0 (0,05-0,2 x 10 ⁶ E80's)
	Surfaced Width	6,0 m
Access cul-de-sacs	Road Category	Class 5c
	Traffic Class	ER (<0,05 x 10 ⁶ E80's)
	Surfaced Width	4,5 m



#### 6.3.2 Access to township

The existing Scheepers Street borders the township on the northern side and provides access to erven 1 to 5.

The master planning of the municipality for development along the national N12 route to the west and development to the west of Meiringspark indicates proposed public collector roads to provide access to pockets of proposed development.

This proposed township is located within such a proposed development pocket and is bordered by the following proposed public collector roads:

- Extension of Jan Parlement Street to the south along the east boundary, classified as a local distributor, class 4, and
- An unnamed road along the southern boundary that links with Jan Parlement Street, classified as a residential access collector, class 5a.

Both the latter mentioned proposed collector roads have not been proclaimed as public roads to date but are prerequisites for purposes of access to erven 6 to 10 in the township.

To ensure access to the proposed erven 6 to 10:

- A Right of Way should be registered on the proposed alignment of the two roads for purposes of access and accommodating services
- The roads should be constructed to a standard that will suite the level of service as required by the roads master planning for the area.

The extension of Jan Parlement Street from Scheepers Street up to the unnamed road will be constructed with an intersection with the unnamed road and will provide for future extension to link with the N12 national road.

The unnamed road along the southern boundary of the township will be constructed with a temporary turning circle to form a temporary Cul-de-Sac on its western end until such stage that the municipality extend it to the west to link with Tusk Boulevard in future.

The structural design of the road pavement will be done according to the standards prescribed in the "Guidelines for Human Settlement and Planning".

Provision will be made for the installation of pre-cast concrete kerbs or edge beams on both sides of streets. Where kerbing lacks in Scheepers Street for the portion between Jan Parlement Street and Hamman Street, it will be provided to match the existing type of kerbing.

The long sectional gradient of the road will be varied, but will be a minimum of 0.5%.

The pavement design will consist of the following:

- Road width:
  - o 8.0 m for Jan Parlement Street, class 4
  - o 7.0 m for the unnamed road, class 5a
- Rip & compact in-situ for roadbed to 93% mod AASHTO density



- Import suitable G4 material and compact to 97% mod AASHTO or stabilize in-situ material to form a C3 (UCS>1.5 MPa)
- 25mm asphalt as per SANS 1200

#### 6.3.3 Internal Streets

There are no internal streets in the township.

#### 6.4 Stormwater Drainage

Stormwater will be accommodated on the surface in the road prism.

Streets will be utilized to collect water from the stands. Stormwater will be collected by means of existing catch pits and then be transported by existing concrete drainage pipes to outlet structures from where the water will be released back into the natural surroundings.

The design standards, which are proposed for the development, are as follows:

Item	Sub-item	Criteria
Mean annual rainfall		580 mm
Rainfall distribution		Triangle
Time to peak ration		0,39
Infiltration model		Horton
Starting infiltration value		45 mm/h
End infiltration value		15 mm/h
Decay constant		0,00115
Conduit routing		Time shift
Effective % area	Developed area	5-15
impermeable	Undeveloped area	1
Manning factor	Pipes	0,013
	Unlined canals	0,013
Design storm	Minor storms	2 year
recurrence interval	Major storms	5 years

#### 6.5 Refuse Removal

Refuse will be collected weekly from site by the local Municipality and transported to the municipal disposal site. Normal rates will be applicable for the removal of refuse.

#### 6.6 Cable Ducts for TELKOM Services and Electrical Road Crossings

Cable ducts and draw pits will be installed for TELKOM services as well as cable ducts for electrical road crossings.

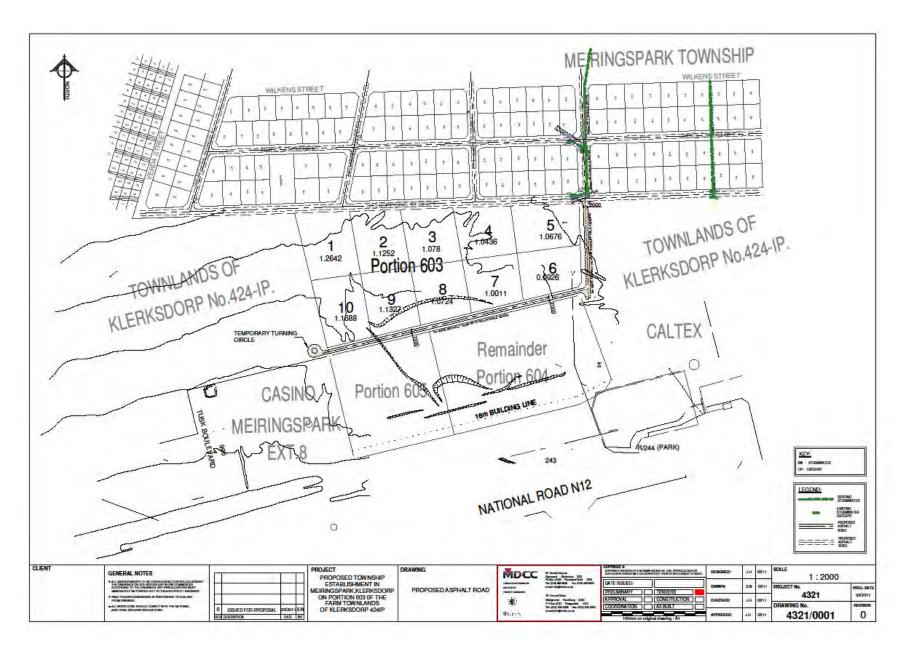


#### 7. Bulk services Contributions

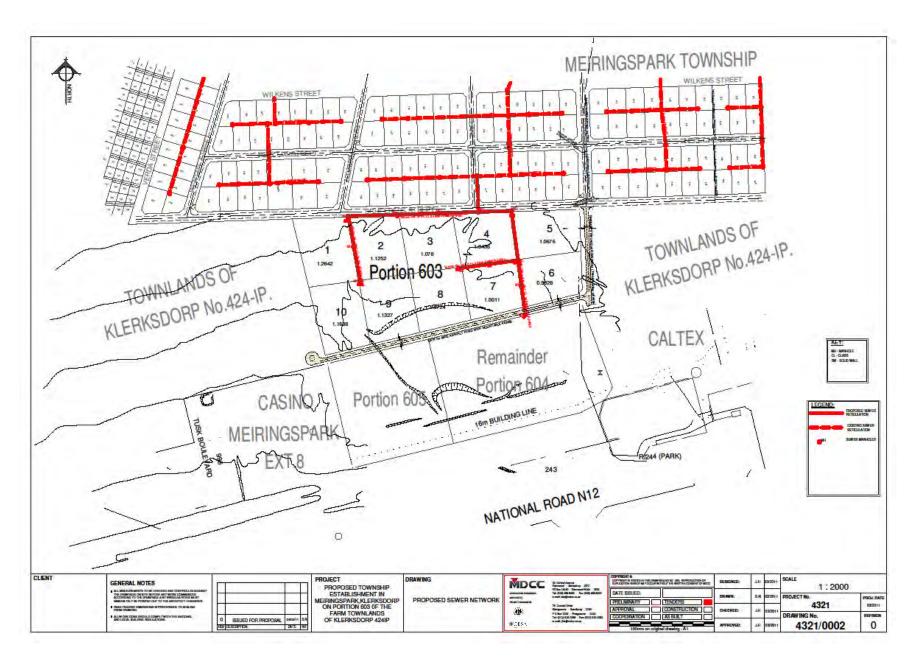
No bulk services contributions are payable.

JH Herholdt For MDCC (Pty) Ltd 8 March 2011

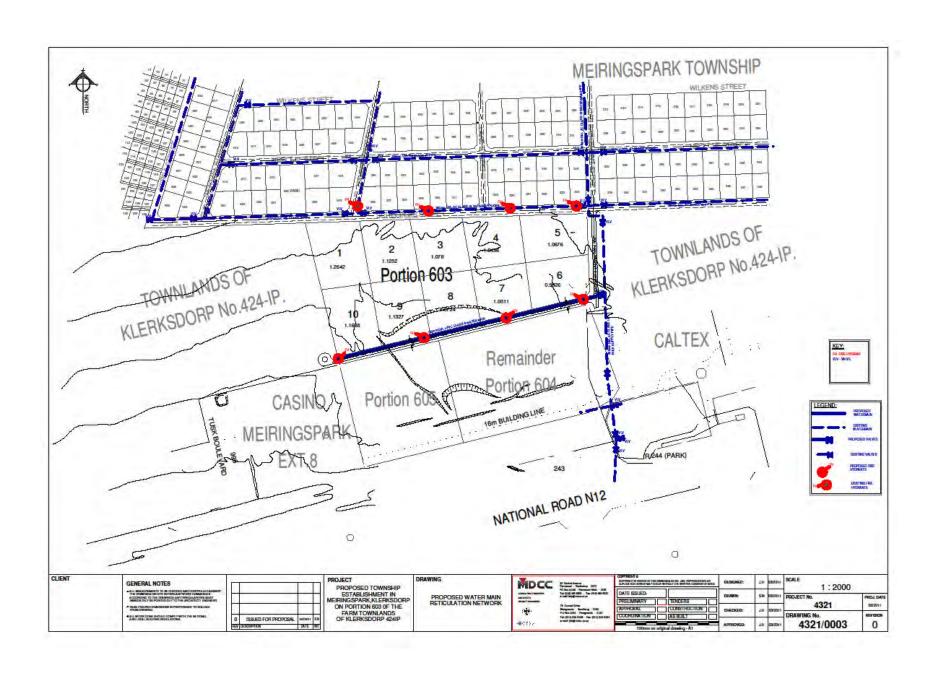


















# **Meirings Park X10 and X11**

## **Electrical Services Report**

#### 1. Introduction

This report outlines the design philosophy of the electrical Medium Voltage (MV) and Low Voltage (LV) installation for the proposed Meirings Park X10 and X11 development.

The installation will be design to comply with the following standard specifications:

- i. SANS 10142
- ii. IEC Electrical Standards
- iii. SANS 0292
- iv. SANS 10098-1

#### 2. Electrical Engineers

The developer, Letlowe La Khumo Trading (Pty) Ltd, appointed CA du Toit (Pty) Ltd as the electrical consulting engineers for this project.

#### 3. The Development.

The new development will consist of:

- i. The development of residential stands
- ii. The development of commercial stands
- iii. The development of a Taxi Rank

#### 4. Design Philosophy

#### **Main Power Supply**

A site survey was conducted to determine the best and most economical way to provide power to the site.

It was decided to close the 11kV ring between the Rio Casino and the CRU housing development. Currently both these two sites are fed on a spur feed.

#### **Medium Voltage Reticulation**

A MV cable will be installed from the Rio Casino connection point to the connection point at the Housing development. Two 11kV T3 outdoor switching units will be installed to make it possible to route the MV cable to pass all the stands.

The MV cable to be installed will be a coper cable, 120mm² 3 core 11/11kV at a depth of 1100mm.

#### Mini Substations

Mini Substations will be strategically positions on site alongside the new roads, connected by the MV unground cables.

All the mini substation shall be as per Matlosana approved standard specifications.

#### LV Reticulation

LV cables will connect the distribution kiosks and street lights with mini substation. The cables will be installed at 'n minimum depth of 600mm below final ground level. The minimum distance between MV and LV cables shall be 400mm.

#### **Distribution Kiosk**

Distribution kiosks will be installed at every stand. These kiosk will be fed with a 400V PVC/SWA/PVC from the min substations. The size of the cable will be determine by the stand developer's power requirement.

#### 5. Streetlights

The street light design shall comply with SANS 10098-1, road category B2.

The streetlight fittings shall be installed on a steel galvanized pole with a mounting height of 10m.

The streetlight fittings shall be of the LED type.

#### 6. <u>Electrical Load Estimate</u>

The electrical load estimate was based on the following assumptions:

i. Living unit 2,1kVA per unit
 ii. Shopping Mall 125W/m² average

iii. Taxi rank 30kVA power connection

The total estimated electrical load after diversity is 1.8MVA.

#### 7. Annexures

The following annexures is part of this report:

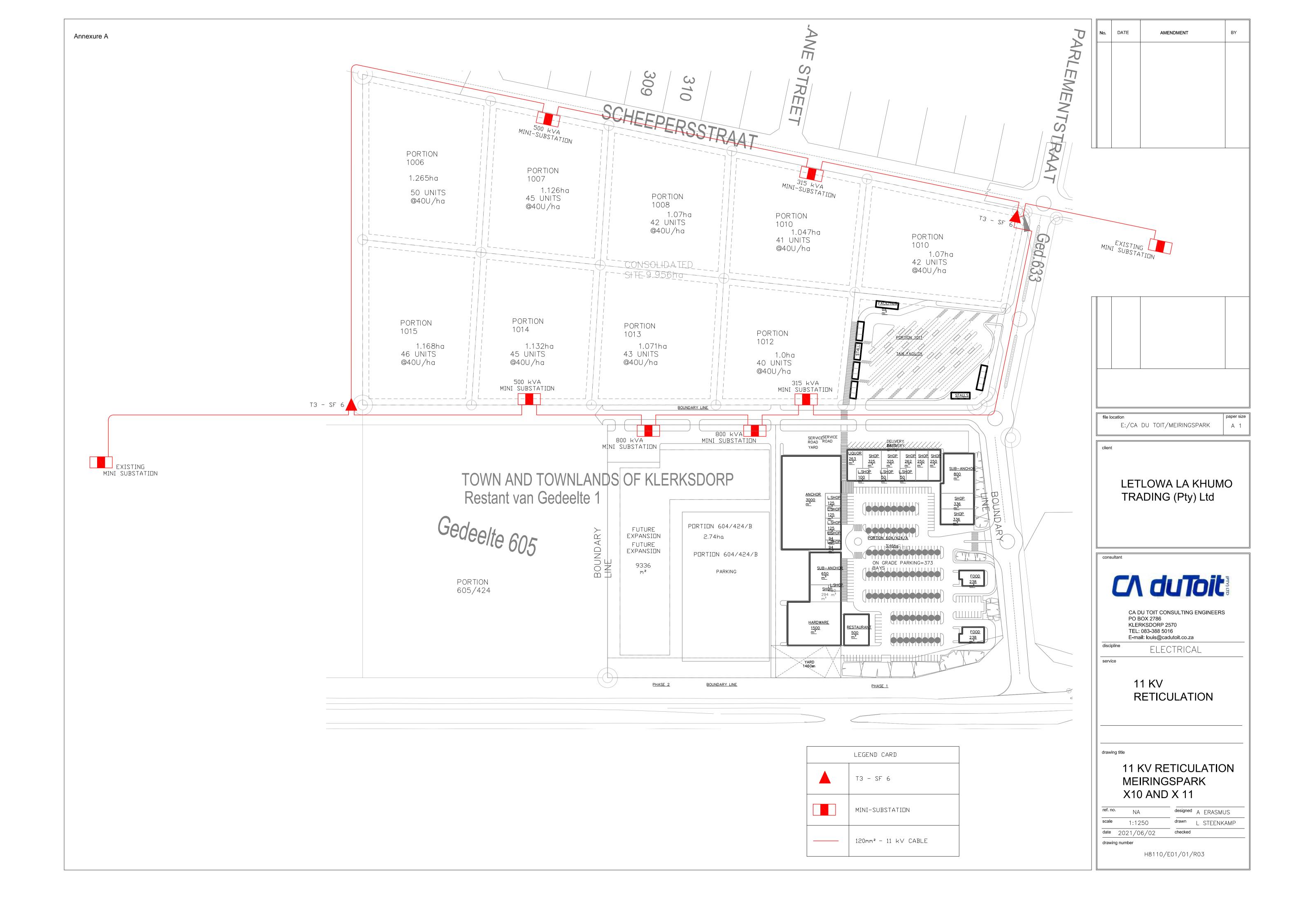
. Annexure A Site Layout – MV Reticulation – Drawing H8110/E01/01/R03

ii. Annexure B Load Calculations

AM Erasmus. Pr.Eng

01/06/2021

**End of Report** 





# Meirings Park X10 & X11

# **Electrical Load : Estimate**

Living units
 Load per unit
 Taxi Rank
 Mall load
 Mall area
 Ha
 2.10 kVA
 30.00 kVA
 125 W/m²
 19,716 m²

						Diversity	Load after	
No	Stand No	Development	Size Ha	No units	Load kVA	Factor	DV - kVA	Amps/phase
1	Portion 1006	Housing	1.2665	50	105.00	0.45	47.25	152.2
2	Portion 1007	Housing	1.1265	45	94.50	0.45	42.53	137.0
3	Portion 1008	Housing	1.0727	42	88.20	0.45	39.69	127.8
4	Portion 1009	Housing	1.0478	41	86.10	0.45	38.75	124.8
5	Portion 1010	Housing	1.0024	42	88.20	0.45	39.69	127.8
6	Portion 1011	Taxi Rank - Power	1.0710	1	30.00	0.35	10.50	43.5
7	Portion 1012	Housing	1.1324	40	84.00	0.45	37.80	121.7
8	Portion 1013	Housing	1.1675	43	90.30	0.45	40.64	130.9
9	Portion 1014	Housing	1.0715	45	94.50	0.45	42.53	137.0
10	Portion 1015	Housing	1.1680	46	96.60	0.45	43.47	140.0
11	Portion 604/424/A	Mall m ²	10,380	m²	1,297.50	0.55	713.63	1,880.4
12	Portion 604/424/B	Mall m ²	9,336	m²	1,167.00	0.55	641.85	1,691.3
					3,321.90		1,738.31	

A Total Estimated Electrical Load After Diversity

1.74 MVA



Our Ref.: 4321 2022_08(101)

16 August 2022

Letlowa La Khumo Trading (Pty) Ltd Boardwalk Office Park, Phase 1, Block A, Unit A3, 107 Haymeadow Street, FAERIE GLEN 0043

ATTENTION: Mr L Jacobs

E-mail: luc@crausegroup.com

Sir



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#### MEIRINGSPARK EXTENSIONS 10 and 11: GEOTECHNICAL REPORT

Please find attached the Geotechnical Report No GA0851/2022, dated July 2022, for Meiringspark Extensions 10 and 11 for your attention.

Pleas call us if further information is required.

Yours faithfully

JH HERHOLDT Pr Tech Eng, Cert PM

For MDCC (Pty) Ltd

permunt





### **GEOTECHNICAL REPORT**

# MEIRINGSPARK RESIDENTIAL DEVELOPMENT KLERKSDORP NORTH WEST PROVINCE

Requested by MDCC Consulting

Project GA0851/2022 July 2022



#### GEOTECHNICAL REPORT

# MEIRINGSPARK RESIDENTIAL DEVELOPMENT KLERKSDORP NORTH WEST PROVINCE

Requested by MDCC Consulting

# Project GA0851/2022 July 2022

Ground Africa Consulting Geotechnical Engineers cc Reg No: 2009/184903/23 | VAT Reg No. 4540254390

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Project GA0851/2022 29th July 2022

# GEOTECHNICAL REPORT MEIRINGSPARK RESIDENTIAL DEVELOPMENT KLERKSDORP – NORTH WEST PROVINCE

#### 1 INTRODUCTION

This report refers to the findings of a geotechnical investigation undertaken on the 29th and 30th June 2022. The investigation forms part of the planning and design stage for the new Meiringspark Residential Development, Klerksdorp, North West Province. The investigation was carried out by Ground Africa Consulting Geotechnical Engineers and undertaken at the request of Mr Marvick Janse van Rensburg of MDCC (Pty) Ltd.

Previous geotechnical investigative works were undertaken by Real World Solutions in April 2009 and outlined in a report titled 'Geotechnical Investigations for a proposed Mixed Business and Residential Development, Meiringspark Ext, Klerksdorp'. The scope, size and layout of the Meirgspruit Development has since changed. Ground Africa Consulting Geotechnical Engineers was asked to carry out this investigation to augment and the information obtained in the previous geotechnical investigation as well as to provide founding recommendations.

The findings from this investigation aim to assist the civil and structural engineers in:

- Reinterpret the findings and recommendations of the original geotechnical investigation with respect to the updated and current scope of the development.
- Confirm the ground profile and recommend suitable founding solutions for the structures envisaged according to the current development plan.
- Confirm the geotechnical constraints identified in the previous investigation and outline the possible effect these will have on the new and updated scope of works.



#### 2 SITE DESCRIPTION

The earmarked site for the proposed Meiringspark Residential Development (*with general GPS co-ordinates S26°51'57"; E26°37'27"*) is situated within the suburb of Meiringspark, approximately 4.5km west of the Klerkdorp CBD, North West Province. The site is accessed using the N12 national highway as well as along asphalt surfaced roads which pass through the neighbouring residential areas.

The identified site is unfenced, near rectangular in shape and is approximately 17.6ha in size. The N12 national highway forms the southern boundary. A residential road, Scheeper Street, forms the northern boundary with suburban areas beyond that. The eastern boundary is formed by a relatively new residential development and fuel station. The western boundary is partly open with the south western section marked by a casino development.

The overall site is generally level; however, the ground surface has been disturbed in places. Furrows and asphalt covered berms are present over the central area. These were created for a drive-in cinema. The area used for the drive-in cinema is approximately 1.8ha. From verbal communication and an assessment of previous geotechnical data it is understood that a portion of the area beneath the old drive-in cinema was utilised as a borrow-pit. The resultant pit was then backfilled to create the drive-in area. The exact lateral extent and depth of the pit is unknown. Two old derelict single storey structures as well as asphalt surfaced access roads are also present on the site. In addition, a number drainage furrows with associated embankments as well as randomly spread-out heaps of dumped refuse and building rubble are present across the site. The remaining open areas are covered in long grass, small trees and shrubs. A localised zone of dense bush is present in the southern section of the site.

Vehicle access about the site is possible; however, the clearance of rubble and vegetation as well as backfilling of old drainage furrows will be required in places. Manoeuvrability about the site for large plant will be easy.

An existing water main passes through the midsection of the site and follows a general west to east directional heading. Potable water and sewer lines are present along the eastern boundary line.

An aerial image of the site as well as photographs taken at the time of the geotechnical investigation are shown over-page.





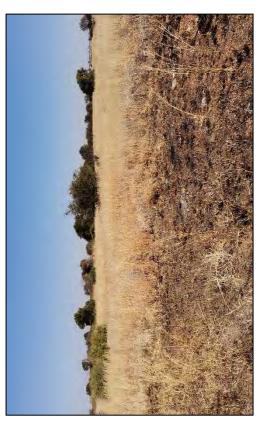




Picture 1: Looking west across the midsection of the site from the eastern boundary



Picture 3: Old asphalt surfaced access roads pass through the site area.



**Picture 2:** Looking south west across the site from the northern area which is sparsely vegetated.

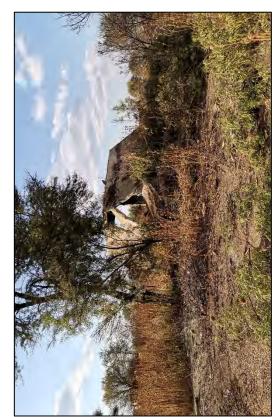


**Picture 4:** An existing water main, aligned along a west/east line, is present through the centre of the site.

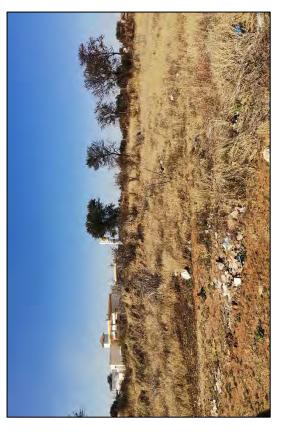




Picture 5: Heaps of rubble and miscellaneous fill are present about the site.



**Picture 7:** Remnants of old buildings which formed part of a previous drive-in cinema are present in the central part of the site.



**Picture 6:** Overlooking the southern portion of the site in an easterly direction towards the neighbouring fuel station.



**Picture 8:** Overlooking the old, undulating asphalt surfaced berms present within the footprint area of the drive-in cinema.



#### 3 GEOLOGY

The general area within which the site is situated is underlain by volcanic and sedimentary rocks of the Platberg Group, Ventersdorp Supergroup. The Platberg Group includes four formations (Kameeldoorns, Goedgenoeg, Makwassie and Rietgat) which contain clastic and chemical sediments as well as felsic to mafic volcanic rock. The mafic and felsic lavas were deposited during graben development and accumulated within fault troughs. The lavas are overlain by scree and debris flow sediments with stromatolites. Stromatolites are layered biochemical accretions which are formed within shallow marine environments.

Geological mapping shows the site is underlain by amygdaloidal lavas of the Rietgat Formation, Platberg Group. The lavas comprise mostly greenish-grey amygdaloidal andesite to dacite with some interbedded shale, tuff, greywacke and conglomerate. Stromatolitic calcarenite has also been found to be present within the lithostratigraphy. The lavas and sedimentary rock are overlain by transported soils which can be colluvial or alluvial in origin. These near surface layers contain gravel rich, slightly cemented, pedogenic layers in places.

Trial hole excavations on site confirm the presence of amygdaloidal andesite. The residual soils derived from the in-situ decomposition of the parent rock has resulted in the formation of fine grained, clay rich residual soils which overlie the rock head contact.



## 4 FIELDWORK

## 4.1 Fieldwork Methods

Geotechnical fieldwork undertaken on the 29th and 30th June 2022 comprised the following:

- Site walkover and appraisal of the earmarked site by an engineering geologist.
- Mechanical excavation of thirteen (13x) trial holes to depths of between 1.2m and
   3.0m below present ground level (PGL) using a standard sized TLB.
- Soil profiling of the ground horizons exposed in the trial hole sidewalls.
- Retrieval of representative soil samples for laboratory testing.
- Thirteen (13x) Dynamic Penetrometer Light (DPL) tests to obtain an indication of the variation in consistency of the underlying soil and weathered rock horizons.

The locations of the trial holes are shown in *Appendix A*. Trial hole depths were determined by tape measurement from present ground level. All the trial holes were profiled according to the method of Jennings, Brink and Williams as per the paper "Revised guide to soil profiling for civil engineering purposes in Southern Africa" as published in the Transactions of the South African Institution of Civil Engineers. Individual soil profiles are included in *Appendix B*.

In the dynamic penetrometer light (DPL) test, a specific angle ended cone fixed to the end of a steel rod is driven into the ground using a standard weighted hammer that drops by a constant height. The distance measured at each blow as the rod moves into the ground is recorded. These values are correlated to known values for soils and used to assess the density/consistency of the material for bearing capacity determination. DPL field results have been included in *Appendix C*.



## 4.2 Fieldwork Results

## 4.2.1 Soil Profiles

The excavation of trial holes indicates the overall site is generally underlain by a uniform subsurface ground profile. Weathered volcanic andesite rock was intersected within all trial holes excavated on site. The andesite is overlain by fine grained residual soils of variable thickness. Some fill was intersected in areas where previous ground disturbance has occurred, most notably in the area where the old drive-in cinema is present.

The generalised, *natural* soil profile is depicted below for reference:

Colluvium	Slightly moist, brown to brownish orange, medium dense, intact, fine to medium grained; GRAVELLY CLAYEY SAND – <i>Colluvium</i> with roots.  *Note: Some hard rock andesite cobbles and boulders were noted at surface as well as within the colluvial soil horizon.
Upper Residual	Slightly moist, brownish orange to reddish orange with black blotches, medium dense, intact to slightly shattered; SANDY CLAYEY GRAVEL – <i>Residual</i> with weathered andesite rock fragments.
Lower Residual	Slightly moist, yellowish olive with black blotches, medium dense/firm to dense/stiff, intact to slightly shattered; SILTY SANDY CLAY to SILTY CLAYEY SAND – <i>Residual Andesite</i> with weathered rock fragments.  *Note: Some remnant zones of slightly weathered, hard rock andesite were found to be present within the residual soil layers.
Very soft to soft rock (Andesite)	Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; <i>Andesite</i> .
Soft to Medium hard rock (Andesite)	Yellowish olive to olive grey with black staining along joint and fracture surfaces, highly to moderately weathered, fractured, medium to widely jointed, fine grained, soft to medium hard rock – <i>Andesite</i> .

The natural, undisturbed, ground profile has a layer of transported colluvial soils at surface. The colluvium is brown to brownish orange in colour and comprises a fine to medium grained, gravelly clayey sand. The colluvium was found to have intact soil structure and was noted to contain hard rock andesite cobbles and boulders in places.



Fill material present in disturbed areas overlies the colluvial soil layer. Fill intersected on site ranges from 0.2m to 1.6m thick, with the thickest horizons being encountered within the footprint area of the old drive-in cinema. The composition of the fill was found to vary; however, it appears to generally be reworked colluvial and residual soils. Fill, outside of the drive-in footprint area comprises rubble heaps, refuse and zones of mixed, miscellaneous debris.

The colluvial layer is underlain by residual soils derived from the in-situ decomposition of andesite rock. Distinct variation in colour and composition were observed within the residual section of the profile. Two prominent layers were identified and referenced as the upper and lower residual horizons for reporting purposes. The upper residual horizon was intersected at depths of between 0.2m and 1.6m below PGL. The material comprises a sandy clayey gravel which is brownish orange to reddish orange in colour. The upper residual has an intact to slightly shattered soil structure indicating that some slight heave and shrinkage movement can be expected with corresponding changes in in-situ moisture content. Weathered to slightly weathered andesite rock fragments were observed within the matrix of the upper residual horizon.

The lower residual horizon was intersected at depths of between 0.4m and 2.0m below PGL. The material comprises fine grained, silty sandy clay or fine-grained silty clayey sand which is yellowish olive with black blotches. The soil fabric has a slightly shattered soil structure in places. Weathered andesite rock fragments as well as remnant zones of slightly weathered, hard rock were found to be present within the lower residual horizon.

Andesite rock was intersected at depths of between 0.8m and 2.5m below PGL within trial hole excavations on site. The rock material was for the most part found to be completely to highly weathered and of a very soft to soft rock classification. Slow mechanical excavation was experienced within the weathered rock mass. Highly to moderately weathered, soft to medium hard rock is also present, particularly where the rock head contact lies at relatively shallow depths. The rock fabric is orange to olive grey in colour, fine grained and medium to widely jointed.

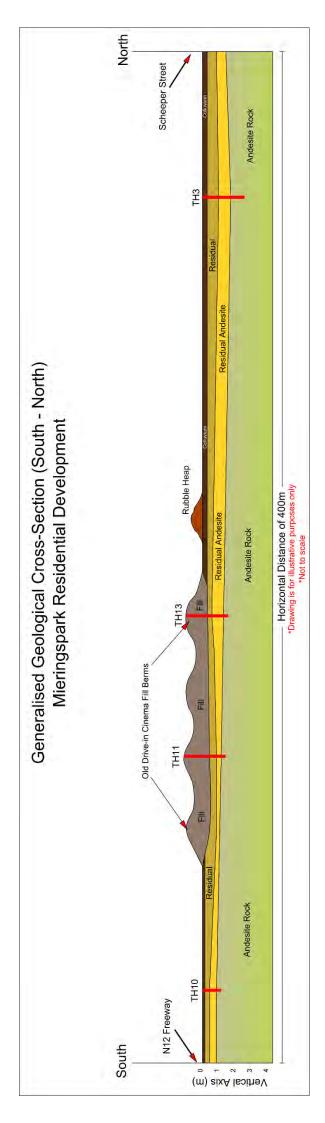
Individual soil profiles are included in *Appendix B* of the geotechnical report.

No groundwater seepage was encountered within the trial hole excavations on site. A table listing the depths to identified soil and rock horizons is provided over-page for reference. A generalised geological cross section has also been included over-page for interpretive reasons.



Trial Hole	Depth to Upper Residual Layer	Depth to Residual Andesite	Depth to Rock	Total Depth	Excavation Note
TH1	1.0m	1.5m	2.3m	2.7m	Slow mechanical excavation at base
TH2	0.2m	0.9m	1.2m	1.6m	Slow mechanical excavation at base
TH3	0.3m	1.1m	1.7m	2.2m	Slow mechanical excavation at base
TH4	0.4m	0.8m	1.1m	1.4m	Slow mechanical excavation at base
TH5	0.3m	0.8m	1.7m	2.3m	Slow mechanical excavation at base
TH6	0.4m	0.9m	1.2m	1.7m	Nearing refusal at base
TH7	0.4m	1.3m	1.7m	2.0m	Slow mechanical excavation at base
TH8	0.4m	1.1m	1.5m	2.0m	Slow mechanical excavation at base
TH9	0.2m	1.7m	2.5m	3.0m	Slow mechanical excavation at base
TH10	0.1m	0.4m	0.8m	1.2m	Nearing refusal at base
TH11	1.6m	2.0m	2.3m	2.5m	Slow mechanical excavation at base
TH12	0.1m	1.2m	1.5m	1.9m	Slow mechanical excavation at base
TH13	1.5m	1.8m	2.4m	2.6m	Slow mechanical excavation at base

**Generalised Geological Cross-Section** 





## 4.2.2 Dynamic Penetrometer Light Testing

A total of thirteen (13x) dynamic penetrometer light (DPL) tests were carried out across the site to obtain an indication of the variation in consistency of the underlying soils and weathered rock horizons. Testing was carried out from surface alongside the respectively numbered trial holes.

DPL testing through the colluvial soils shows the material is generally of a medium dense to dense consistency within penetration rates of between 25mm/blow and 8mm/blow being recorded. Testing shows that some dense to very dense zones, where the penetration rate drops to below 8mm/blow, are present.

Continued testing within the residual soils, intersected at depths of between 0.2m and 1.5m below PGL, shows the materials are initially of a medium dense/firm consistency and quickly transition to a dense/stiff consistency with increasing depth. Penetration rates for the residual soils range from 14mm/blow to 2mm/blow.

The intersection of weathered remnant zones of hard rock within the residual soils as well as weathered andesite rock resulted in the refusal of the DPL test apparatus at depths of between 0.6m and 2.3m below PGL.

Individual DPL test result sheets are included in *Appendix C* of the geotechnical report.



## 5 LABORATORY TESTING

A sample of the bulk fill material used to construct the berms of the old drive-in was retrieved and laboratory tested to determine grading, clay content, moisture/density relationships and California Bearing Ratios for material strength verification. Selected samples of the upper and lower residual soils were subjected to Foundation Indicator Tests to determine the clay content, plastic properties and particle size distribution of these materials as well as obtain an indication of heave and shrinkage properties. Result sheets as received from the laboratory are included as *Appendix D* with final results summarised in the tables below:

## MOD/CBR

Sample	TH	Depth	Material	LS	PI	MDD	GM			CBR			TRH	%
Jampie		Deptii	iviaterial	LJ	FI	(OMC)	OIVI	90	93	95	97	100	14	Swell
MP4	TH13	0.2 – 1.2m	Brownish orange to orange; Clayey Sandy Gravel – <i>Fill</i> .	5	9.3	1858 (14.1)	1.87	11	11	11	13	14	G8	0

### Foundation Indicator

Sample	ТН	Depth	Material	LS	PI	% Clay	GM	Gradi	ing (%	Heave		
Sample	16	Бериі	iviateriai	2	FI	(<0.002mm)	GIVI	Gr	Sa	Si	CI	Potential
MP1	TH1	1.3m	Yellowish olive with black blotches; Silty Sandy Clay – <i>Residual Andesite</i> .	6.7	10.3	32.5	0.85	16.7	27.2	23.6	32.5	Low
MP2	TH4	Uhm	Brownish orange to reddish orange; Sandy Clayey Gravel – <i>Residual</i> .	4.7	12.7	20.4	1.81	51.5	20.1	8.0	20.4	Low
MP4	TH13		Brownish orange to orange; Clayey Sandy Gravel – <i>Fill</i> .	5.0	9.3	17.6	1.87	51.7	20.1	8.8	17.6	Low

Where:

TH: Trial hole from which samples were retrieved HP: Heave Potential

LS: Linear Shrinkage PI: Plasticity Index MDD: Maximum Dry Density at Optimum Moisture Content GM: Grading Modulus

CBR: California Bearing Ratio TRH: Technical Recommendations for Highways

% Clay: Clay content (<0.002mm)

Gr: Gravel

Si: Silt

CI: Clay % comprising is according to MIT Size classification

Material strength and quality testing undertaken on a bulk sample of the fill obtained from TH13 indicates the material has a G8 rating according to the TRH14 Classification. The material has a moderately low linear shrinkage (5.0%) and plasticity index (9.3%) along with a negligible swell of the sample being recorded at 100% compaction.



Foundation indicator testing undertaken on a sample of the upper residual soils (MP2) shows the material comprises mostly gravel (51.5%) with relatively lesser concentrations of clay (20.4%), sand (20.1%) and silt (8.0%). Linear shrinkage (4.7%) and plasticity index (12.7%) values are classified as being low to moderate, with a low heave potential being determined for the material.

Testing undertaken on a sample of the lower residual horizon shows the material comprises mostly clay (32.5%) and sand (27.2%) with lesser concentrations of silt (23.6%) and gravel (16.7%). Linear shrinkage (6.7%) and plasticity index (10.3%) values are classified as being low to moderate.

An assessment of the upper and residual soil layers in-situ indicate that these soils have a slightly shattered to shattered soil structure in places. This suggests that some slight heave and shrinkage of the fine-grained material does occur, despite the low plastic properties measured for these materials. As such, it is suggested that some slight heave and shrinkage movement be anticipated for these soils with corresponding changes in the in-situ moisture content.



## 6 GEOTECHNICAL ASSESSMENT

## 6.1 Findings of Previous Investigation

A previous geotechnical investigation was undertaken across the earmarked site by Real World Solutions in April 2009. The report is titled 'Geotechnical Investigations for a proposed Mixed Business and Residential 2 Development Meiringspark Ext, Klerksdorp'. The investigation was undertaken to determine the suitability of the site for a new residential development; however, the actual layout and nature of the planned building was not known the time of the investigation. The report contains mostly factual information a was written for municipal approval to confirm the site area would be satisfactory for further development from a geotechnical perspective. A summary of the notable findings from this initial investigation are listed below:

- The site is underlain by a generally uniform ground profile. The site is masked by a layer of colluvium which is in turn underlain by pedogenic and fine-grained residual soils. The residual soils are derived from the decomposition of the underlying volcanic lava (andesite) rockmass.
- The old drive-in cinema was built over an old borrow pit. The material used to
  construct the berms of the drive-in comprise well compacted gravels. The depth of
  the borrow pit was found to be in excess of 3.0m deep in places. This area has been
  classified as site class 'P' suggesting it is not suitable for development.
- No groundwater was intersected within trial hole excavations.
- The author classified the site as being predominantly 'D1' after the classification developed by Partridge, Wood and Brink. A site with a D1 classification for urban development is a site underlain by materials with low compressibility. This was confirmed by standard consolidation tests undertaken on soil samples.
- No formal recommendations, with respect to suitable foundation types, embedment depths or ground improvement methods were outlined in this report.



## 6.2 Proposed Development

From recent correspondence, it is understood that the proposed site will be utilised for a high density, multistorey residential development. New structures will be between two and three storeys; comprising ground floor, first floor and second floor levels. Formal parking areas, internal access roads and stormwater infrastructure will also form part of the proposed development.

## 6.3 Excavations and Earthworks

Significant site clearing and removal of the heaps of fill material will be required prior to commencement of construction works. In addition, formal rehabilitation of the drive-in area will be required should formal structures be positioned over this area. This will require selective removal of this material, stockpiling and replacement thereof to formal engineered specifications.

The use of both TLBs as well as 20ton excavators will be necessary. Demolition of old masonry and reinforced concrete structures will also need to be allowed for.

The fill contained within the randomly scattered heaps around the site will need to removed and discarded off-site while the gravel used to backfill the old borrow pit and create the berms of the drive-in can be stockpiled for later re-use. No rubble is permitted to be used for backfilling purposes on site.

Trial hole excavations on site were undertaken using a standard sized tractor loader backhoe (TLB). Excavation through the fill, colluvium and residual soil horizons was found to be easy. Excavation effort became slow and difficult upon reaching the top of the weathered andesite rock head contact; albeit possible. Near refusal was encountered upon the intersection of the deeper highly to moderately weathered, soft to medium hard rock.

Where localised zones of remnant hard rock were intersected within the residual soils, excavation became difficult. Care must be taken during construction to not confuse these localised, near surface, zones of hard rock with bedrock. Excavation sidewalls were found to be stable in a freestanding state.

No groundwater was encountered within the trial hole excavations. Ponding within excavations can be expected after rainfall events owing to impermeable nature of the underlying rockmass. As such, it is recommended that pumping be allowed for in tender documentation.



## 6.4 Foundations

The natural ground profile underlying the site is deemed to be highly favourable for the development of triple storey residential structures. Rehabilitation of the disturbed areas present beneath the old drive-in, will, however require formal rehabilitation prior to construction.

In areas outside of the old drive-in footprint, the weathered andesite horizon will be able to support the planned residential buildings on appropriately sized steel reinforced concrete strip footings. The rockmass will provide sufficient bearing capacity with negligible post construction settlement. On average, foundation level is anticipated to range between 1.5m and 1.8m. There are localised areas, where foundation depth will be deeper; albeit founding depths deeper than 2.5m are not expected.

Buildings can be placed within the footprint of the old drive-in area; albeit significant rehabilitation and ground improvement will need to be undertaken prior to foundation construction.

## 6.4.1 Foundations outside of the footprint of the old drive-in

It is recommended that the following ground preparation be taken prior to foundation construction:

- Strip and remove all overlying vegetation, any fill and the colluvial soils to a minimum depth of 0.4m across the founding footprint of each new building.
- Excavate foundation trenches to depths that intersect the underlying weathered rock head contact. It is imperative that the clay rich lower residual horizon is intersected and that completely weathered andesite rock is reached along the full length of the trenches. In the majority of places, foundation trench excavation is expected to extend to a level of between 1.5m and 1.8m below PGL. Actual foundation depth will be reduced with the prior removal of 0.4m of material prior to trench excavation.
- Reinforcement steel can be placed and concrete poured directly over the weathered rock; however, the base of the trenches must be cleaned and all loose debris swept out.

Allowable bearing capacities, derived from empirical analysis, have been tabulated below.



Material	Foundation Type	Dimensions (width)	Embedment below finished floor level	Allowable Bearing Capacity*
Completely weathered, soft rock Andesite	Steel reinforced concrete strip footing	0.8m	1.0m	200kPa
Completely weathered, soft rock Andesite	Steel reinforced concrete strip footing	1.0m	1.0m	230kPa
Highly to moderately weathered, soft to medium hard rock Andesite	Steel reinforced concrete strip footing	0.8m	1.0m	>250kPa

## 6.4.2 Foundations within the footprint of the old drive-in

The old drive-in area will need to be rehabilitated as follows:

- All vegetation, isolated heaps of fill, concrete structures and old asphalt surfacing will need to be stripped from this portion of the site.
- The material must be discarded off-site, well away so as not to contaminate useable material stockpiled elsewhere on-site.
- Prepare a cleared area alongside the drive-in footprint as a place to stockpile material.
- Once the clearing has been completed, it is imperative that the underlying mixture of sandy clayey gravels which were used to backfill the old borrow pit are exposed throughout.
- At this step, it is recommended that further test pits are excavated across the actual footprint of any structures that will be placed in this area. The test pits are to determine the depth to undisturbed, weathered andesite. If found to be at feasible depth, the founding recommendations outlined in 6.4.1 can be followed. If depth to rock is found to be beyond that which is feasible, further rehabilitation will need to be undertaken, outlined in the following steps.
- Excavate and remove the granular material from the borrow-pit and stockpile on the cleared area. Any material and rubble that does not conform to the sandy clayey gravel must be removed prior to placement into the stockpile.



- Continue excavations until undisturbed, intact, weathered andesite rock is exposed throughout.
- Replace stockpiled material into the resultant void. Material must be carefully placed in successive 200mm thick layers. Each layer to be compacted to 98% MOD ASSHTO at 2% of Optimal Moisture Content (OMC).
- Heightened control must be implemented when stockpiling and replacing material, ensuring the quality of materials used, and the degree of compaction is achieved as per the recommended specifications.
- It is likely that insufficient quantities of material will be removed from the old borrow
  pit to rehabilitate it back up to final ground level. Selected granular residual soils
  removed from foundation trench excavations can be used to make up this shortfall
  provided they are of at least G8 quality.
- Place the new structure on steel reinforced concrete rafts so as to withstand some post-construction movement of the underlying engineered fill.

The profile of re-compacted sandy clayey gravels overlying weathered andesite is estimated to have a modulus of subgrade reaction of 30 000kN/m³ to 35 000kN/m³. A maximum 'allowable bearing pressure' of 150kPa can be assumed for this foundation type provided the area of the foundation is larger than 6mx4m.

## 6.5 Surface Beds

Prior to the construction of the surface beds, all remaining vegetation, roots and colluvial soils must be removed from the footprint area of each individual structure. The upper and lower residual soils can form the subgrade on which imported granular layer works can be placed.

It is recommended that surface bed preparation be undertaken as follows:

- Strip and remove all remaining vegetation, roots and colluvium beneath the footprint of the surface beds for each individual structure.
- Ensure undisturbed residual soils are cleanly exposed throughout.
- Scarify the residual soils to a further 200mm and compact to 98% MOD AASHTO at 2% Optimum Moisture Content (OMC).



• Introduce a geotechnically inert, granular G5 quality material and compact in consecutive 100mm thick layers at 98% MOD AASHTO at 2% OMC. Place layers up until the underside of the planned surface beds is reached.

All surface slabs will need to incorporate sufficient articulation to take account of some slight post-construction settlement of the underlying residual horizons. In addition to this, floor slabs must be nominally reinforced and cast independently of the surrounding walls.

## 6.6 Quality of In-situ Material

The materials used to backfill the old borrow pit, across the drive-in footprint, are of a G8 quality and can be re-used to rehabilitate this area as outlined herein. This material is mostly a mixture of the natural colluvial and upper residual soils that lie across the full site.

Granular material for use as subbase and base course requirements, placed beneath surface beds and roadways, will need to be obtained from commercial suppliers in the surrounding area.

## 6.7 Internal Roads and Parking Areas

The design of internal roadways, parking areas and walkways must be able to accommodate some expected differential settlements and slight heave movement as they will be placed over the residual horizons.

Prior to placement of granular layers works, it is imperative that all vegetation, fill and colluvium be removed so that the upper residual soil layer is exposed throughout. The exposed residual layer must be scarified and compacted to 98% MOD AASHTO at 2% OMC to create a subgrade of uniform stiffness. Imported gravels can then be placed and compacted over this prepared subgrade to form the layer works as per the specifications provided by the accountable civil design engineer.

## 6.8 Groundwater and Stormwater Drainage

Excessive groundwater seepage into excavated foundation trenches is not anticipated at this site. No groundwater was intersected within excavated trial holes and there is little evidence to suggest groundwater is present within the near surface ground horizons.

Owing to the low permeability of the pedogenic, residual and weathered rock horizons, surface stormwater run-off during periods of rainfall is expected to be excessive. A stormwater management system, with generous provision of both surface and subsurface



drainage, will be of paramount importance across this site. Further to this ponding within foundation trenches and deep excavations can be expected after rainfall events owing to the very low permeability of the natural soils and impermeable nature of the andesite rock. Allowance for pumping will be required especially if construction work is to be undertaken during the wetter summer months.

## 7 CONCLUSION

The site was found to have favourable founding conditions for the planned multi-storey structures envisaged for the new residential development. The majority of the site is underlain by a uniform succession of colluvial and residual soil layers, overlying near surface weathered andesite rock. There is a central 1.8-hectare area, where an old borrow pit was located. In the past, the borrow pit was backfilled and used as a drive-in cinema. Depth to the natural ground profile ranges across this area, but is estimated to not be greater than 3m below PGL. No groundwater was intersected within excavated trial holes. No groundwater was intersected in the excavated trial holes.

It is recommended that steel reinforced concrete strip footings are used for the new structures positioned over areas underlain by the natural ground profile. All foundations will need to extend to weathered andesite rock, on average foundation depth is anticipated to be between 1.5m to 1.8m below PGL. Buildings can be placed within the central drive-in area provided some rehabilitation of the underlying ground profile is undertaken, this process will require the removal of surface fill from site followed by the excavation, selective stockpiling and replacement of the granular soil to a formal engineered specification. Once this ground improvement has been undertaken, the new structures can be positioned in this area on steel reinforced concrete raft foundations.

Granular material for use as subbase and base course layers beneath internal roads, parking areas and surface beds will need to be imported from commercial sources.

Surface stormwater run-off is expected to be excessive across this site owing to the low permeability of the underlying ground profile. The provision of a site wide stormwater management system, where generous provision of stormwater drains is made, will be of paramount importance.

The geotechnical findings obtained from this investigation confirm the factual findings outlined in the original geotechnical investigation undertaken in April 2009.



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The recommendations as listed will not entirely prevent all post-construction movements, but will contribute to their mitigation. It is concluded that the site is geotechnically acceptable for the development envisaged provided the recommendations as outlined are adhered to.

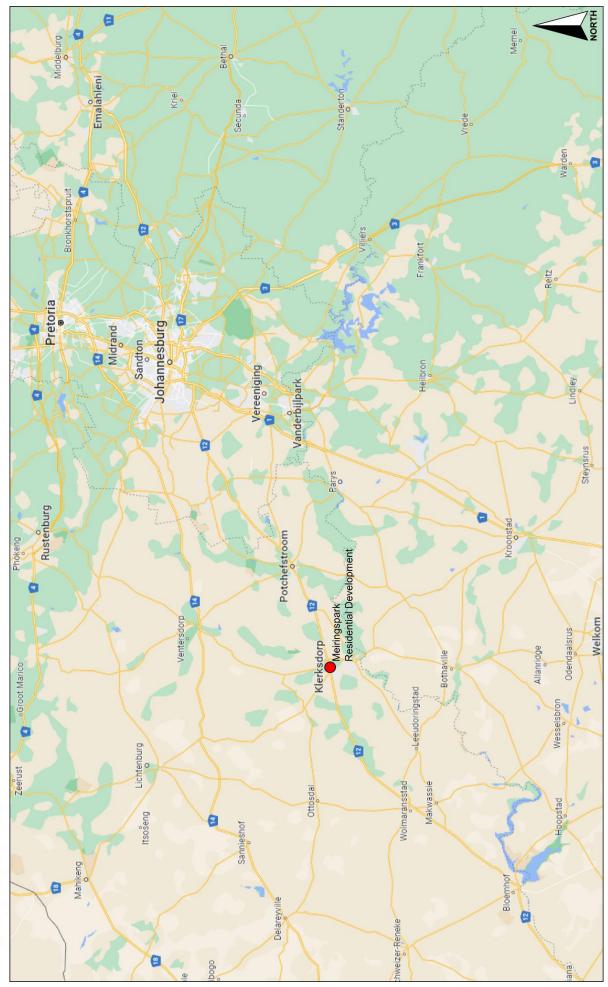
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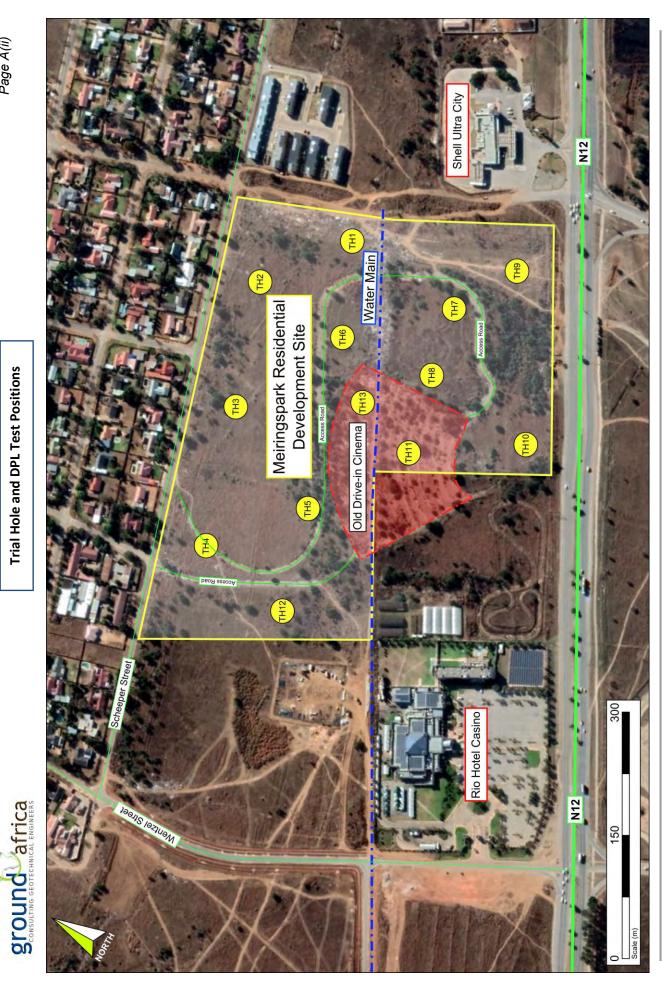
Frederick Volbrecht MIEAust CPEng, PrEng Geotechnical Engineer Nigel Brink Pr.Sci.Nat (115954) Engineering Geologist



## APPENDIX A Locality Map Trial Hole and DPL Test Positions









## APPENDIX B Individual Soil Profiles



CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

**HOLE No:** TH1

LATITUDE: 26°51'58.6"S LONGITUDE: 26°37'33.5"E

Sheet 1 of 1

pth			Description	
			Present Ground Surface	
		0,00	CLAYEY SILTY SAND - FILL Slighty moist, brown with grey patches, medium dense, intact, fine grained; CLAYEY SILTY SAND - Fill with rubble and plastic debris.	
7			SANDY CLAYEY GRAVEL Slightly moist, brownish orange, medium dense, intact; SANDY CLAYEY GRAVEL - Colluvium .	
0,5 -			Note: Gravel comprises angular, pink quartz.	
10-	a	1,00		
1,0 - - - -	● MF	21	SILTY SANDY CLAY Slightly moist, yellowish olive with black blotches, firm, highly shattered; SILTY SANDY CLAY - Residual with some gravel.	
1.5 –	11/1	1,50	America and a second	
-		1,80	SILTY SANDY CLAY Slightly moist, yellowish olive with black streaks and olive grey patches, firm to stiff, intact to slightly shattered; SILTY SANDY CLAY - Residual Andesite with weathered rock fragments.	
2,0 — - -			SILTY CLAYEY SAND Slightly moist, khaki orange with olive grey patches and black streaks, dense to very dense, intact with slightly shattered zones, fine grained; SILTY CLAYEY SAND - Residual Andesite with abundant weathered rock fragments.	
2,5 –		2,30	Very soft to soft rock ANDESITE Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; ANDESITE with zones of fractured, medium hard to hard rock.	
		_,,,	End of log	

2: Slow mechanical excavation at base 3: Sample MP1 obtained at 1.3m

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30 PROFILED BY: NB CHECKED BY: FCV

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH2

LATITUDE: 26°51'55.1"S LONGITUDE: 26°37'30.9"E

Sheet 1 of 1

epth		Description	
	5 4	Present Ground Surface	
0,5 —	0.20	Slightly moist, brown, medium dense, intact, fine to medium grained; GRAVELLY CLAYEY SAND - Colluvium with roots.	
1,0 -	0.96	SILTY CLAY SAND Slightly moist, yellowish olive with black blotches, medium dense to dense, intact to slightly shattered, fine grained; SILTY CLAY SAND - Residual Andesite with weathered rock fragments.	
- - 1,5 —	1.20	Very soft to soft rock ANDESITE Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; ANDESITE.	
	1,60	End of log	

3: No sample obtained

4: No groundwater encountered

5: Hard rock cobbles and boulders can be expected within the colluvial and residual soils

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30 PROFILED BY: NB CHECKED BY: FCV

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH3

LATITUDE: 26°51'55.8"S LONGITUDE: 26°37'25.2"E

Sheet 1 of 1

epth	Description	
	Present Ground Surface	
10 # 10 9 6 1	O,00 GRAVELLY CLAYEY SAND Slightly moist, brown, medium dense, intact, fine to medium dense, fine to medium d	hard
0,5 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in the surrounding area.  CLAYEY GRAVELLY SILT  Slightly moist, brownish orange to reddish orange with black blotches, medium dense, intact to slightly shatters CLAYEY GRAVELLY SILT - Residual with hard rock Andesite cobbles and boulders.	ed;
1,0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	SILTY CLAY SAND Slightly moist, yellowish olive with black blotches, media dense to dense, intact to slightly shattered, fine grained SILTY CLAY SAND - Residual Andesite with weathered rock fragments.	
1,5	1,70  Very soft to soft rock ANDESITE  Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, sligh fractured, medium to widely jointed, fine grained, very s to soft rock; ANDESITE.	itly
2,0 -	2,20	ul of lon
	En	ia oi iog
		nd of log

NOTES: 1: End of hole at 2.2m

2: Slow mechanical excavation at base

3: No sample obtained

4: No groundwater encountered

5: Hard rock cobbles and boulders can be expected within the colluvial and residual soils

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30
PROFILED BY: NB
CHECKED BY: FCV

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

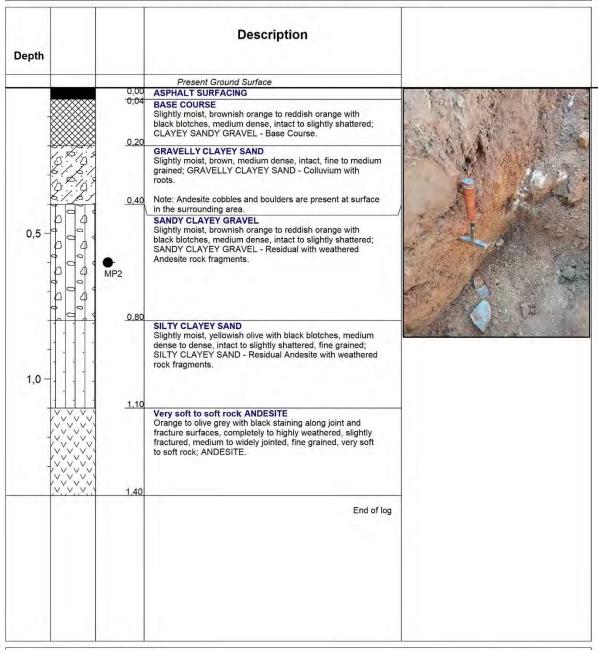
PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH4

LATITUDE: 26°51'55.1"S LONGITUDE: 26°37'19.7"E

Sheet 1 of 1



NOTES: 1: End of hole at 1.4m

Slow mechanical excavation at base
 Sample MP2 obtained at 0.6m

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

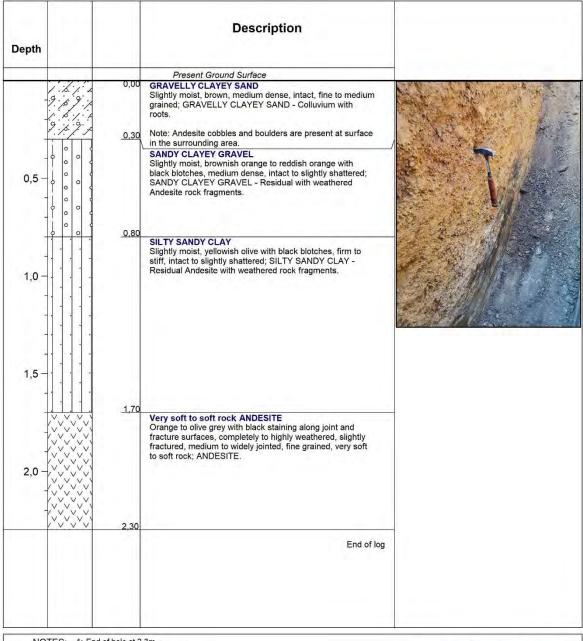
PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH5

LATITUDE: 26°51'59.0"S LONGITUDE: 26°37'22.0"E

Sheet 1 of 1



NOTES: 1: End of hole at 2.3m

2: Slow mechanical excavation at base

3: No sample obtained

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: THE

TH6

LATITUDE: 26°51'59.4"S LONGITUDE: 26°37'28.3"E

Sheet 1 of 1

Depth		Description	
		Present Ground Surface	
	0,00	GRAVELLY CLAYEY SAND Slightly moist, brown, medium dense, intact, fine to medium grained; GRAVELLY CLAYEY SAND - Colluvium with roots.  Note: Andesite cobbles and boulders are present at surface in the surrounding area.	
0,5 - 0 0	A 0.40	SANDY CLAYEY GRAVEL Slightly moist, brownish orange to pinkish orange with black blotches, medium dense, intact to slightly shattered; SANDY CLAYEY GRAVEL - Residual with weathered Andesite rock fragments.	
1,0 -	, <u>0,90</u>	SILTY SANDY CLAY Slightly moist, yellowish olive with black blotches, firm to stiff, intact to slightly shattered; SILTY SANDY CLAY - Residual Andesite with weathered rock fragments.	
	. 1,20	Very soft to soft rock ANDESITE Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; ANDESITE.	
1,5	1,50	Soft to medium hard rock ANDESITE Yellowish olive to olive grey with black staining along joint and fracture surfaces, highly to moderately weathered, fractured, medium to widely jointed, fine grained, soft to medium hard rock; ANDESITE.	
		End of log	

NOTES: 1: End of hole at 1.7m

2: Nearing refusal at base

3: No sample obtained

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30
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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH7

LATITUDE: 26°52'02.3"S

LONGITUDE: 26°37'31.9"E

Sheet 1 of 1

0,00	Present Ground Surface  GRAVELLY CLAYEY SAND  Slightly moist, brown, medium dense, intact, fine to medium grained; GRAVELLY CLAYEY SAND - Colluvium with roots.  Note: Andesite cobbles and boulders are present at surface in the surrounding area.	
0.40	Slightly moist, brown, medium dense, intact, fine to medium grained; GRAVELLY CLAYEY SAND - Colluvium with roots.  Note: Andesite cobbles and boulders are present at surface	
	SANDY CLAYEY GRAVEL Slightly moist, brownish orange to pinkish orange with black blotches, medium dense, intact to slightly shattered; SANDY CLAYEY GRAVEL - Residual with weathered Andesite rock fragments.	
1.00	GRAVELLY SANDY CLAY Slightly moist, yellowish orange with black blotches, firm, intact to slightly shattered; GRAVELLY SANDY CLAY - Residual with abundant weathered Andesite rock fragments.	
1,30 	SILTY CLAYEY SAND Slightly moist, yellowish olive with black blotches, medium dense to dense, intact to slightly shattered, fine grained; SILTY CLAYEY SAND - Residual Andesite with weathered rock fragments.	
1,70	Very soft to soft rock ANDESITE Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; ANDESITE.	
2,00	End of log	
	1.00	1,00  GRAVELLY SANDY CLAY Slightly moist, yellowish orange with black blotches, firm, intact to slightly shattered; GRAVELLY SANDY CLAY - Residual with abundant weathered Andesite rock fragments.  1,30  SILTY CLAYEY SAND Slightly moist, yellowish olive with black blotches, medium dense to dense, intact to slightly shattered, fine grained; SILTY CLAYEY SAND - Residual Andesite with weathered rock fragments.  1,70  Very soft to soft rock ANDESITE Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; ANDESITE.

NOTES: 1: End of hole at 2.0m

2: Slow mechanical excavation at base

3: No sample obtained

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30 PROFILED BY: NB CHECKED BY: FCV

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

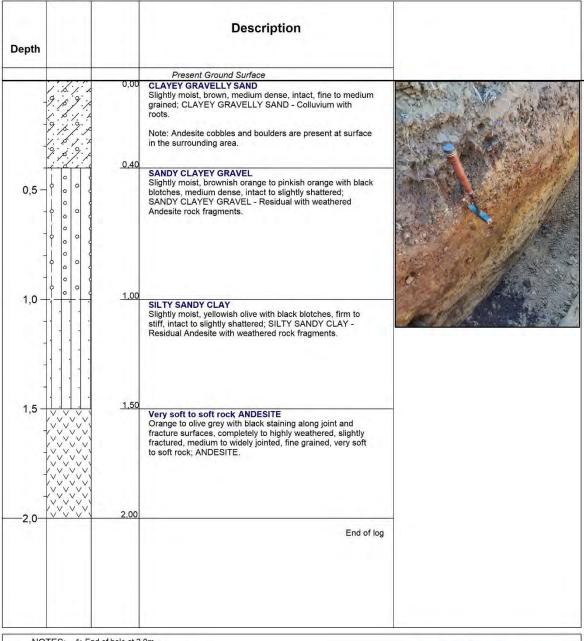
LOCATION: Klerksdorp, NW Province

HOLE No: TH8

LATITUDE: 26°52'02.5"S

LONGITUDE: 26°37'29.0"E

Sheet 1 of 1



NOTES: 1: End of hole at 2.0m

2: Slow mechanical excavation at base

3: No sample obtained

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH9

LATITUDE: 26°52'04.7"S LONGITUDE: 26°37'34.1"E

Sheet 1 of 1

Depth	Description	
	Present Ground Surface	
	0,00 SANDY CLAYEY SILT - FILL Slightly moist, brownish orange with grey patches, med dense, intact to slightly shattered; SANDY CLAYEY SI Fill with gravel and rubble.	dium LT -
0,5	RESIDUAL ANDESITE Slightly moist, brownish orange to orange with olive gre patches, medium dense with very dense zones, slightly shattered; Angular hard rock Andesite (80 - 200mm) w Sandy Clayey Silt Matrix - Residual.	y
1,0 -0	1.30 SILTY SANDY CLAY	
1,5	Slightly moist, orange to dark orange-red with black streaks, firm to stiff, intact with shattered zones; SILT\ SANDY CLAY - Residual Andesite with zones of comp weathered soft rock.	Pletely
2,0 -	SILTY CLAY SAND Slightly moist, khaki orange with olive grey patches and black streaks, dense to very dense, intact with slightly shattered zones, fine grained; SILTY CLAY SAND - Residual Andesite with abundant weathered rock fragments.	
2,5	2,50  Very soft to soft rock ANDESITE  Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slight fractured, medium to widely jointed, fine grained, very to soft rock; ANDESITE with zones of fractured, medium.	htly soft
3,0	hard to hard rock.	nd of log

NOTES: 1: End of hole at 3.0m

2: Slow mechanical excavation at base

3: No sample obtained

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30
PROFILED BY: NB
CHECKED BY: FCV

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CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH10

LATITUDE: 26°52'06.2"S LONGITUDE: 26°37'27.8"E

Sheet 1 of 1

epth			Description	
	5		Present Ground Surface	
	9. 16. 9. 12	0,00	GRAVELLY CLAYEY SAND Slightly moist, brown, medium dense, intact, fine to medium grained; GRAVELLY CLAYEY SAND - Colluvium with roots.	
			Note: Andesite cobbles and boulders are present at surface in the surrounding area.  SANDY CLAYEY GRAVEL Slightly moist, brownish orange to pinkish orange with black blotches, medium dense, intact to slightly shattered; SANDY CLAYEY GRAVEL - Residual with weathered	
		0,40	Andesite rock fragments.  SILTY CLAYEY SAND Slightly moist, yellowish olive with black blotches, medium	
0,5 -			dense, intact to slightly shattered; SILTY CLAYEY SAND - Residual Andesite with weathered rock fragments.	
		0,80	Very soft to soft rock ANDESITE Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; ANDESITE.	
	/v/v/v/	1,00		
1,0 -	**************************************	1,20	Medium hard rock ANDESITE Olive grey with black and orange staining along joint and fracture surfaces, moderately weathered, fractured, medium to widely jointed, fine grained, medium hard rock; ANDESITE.	
	1/1/1/	1,20	End of log	
NO.	TES: 1: End of h			Ground Africa Consulting Engineers

DATE PROFILED: 2022-06-30 PROFILED BY: NB

CHECKED BY: FCV

EXCAVATION METHOD: Mechanical Excavation using TLB

3815

Email: fcvolbrecht@groundafrica.co.za

3815

Tel: +27 35 474 7949

Fax: +27 86 621 7160



ground africa

CLIENT: MDCC

PROJECT: Meiringspark Residential Development

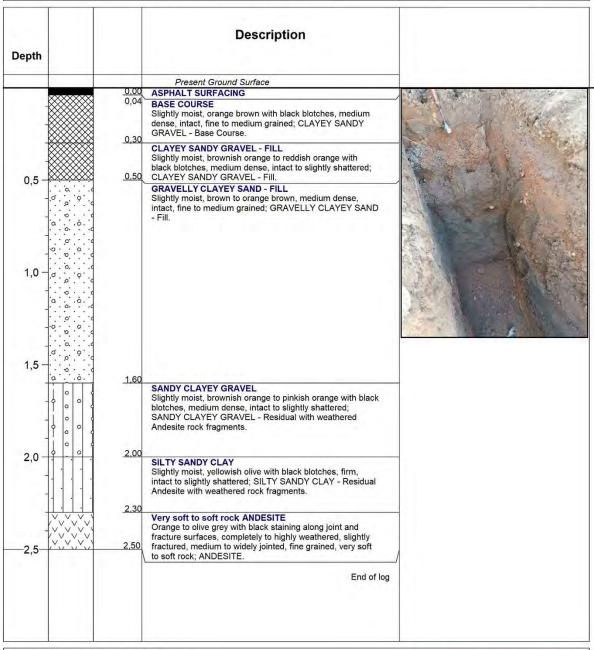
PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH11

LATITUDE: 26°52'02.9"S LONGITUDE: 26°37'25.5"E

Sheet 1 of 1



NOTES: 1: End of hole at 2.5m

2: Slow mechanical excavation at base

3: No sample obtained

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30
PROFILED BY: NB
CHECKED BY: FCV

**Ground Africa Consulting Engineers** 

PO Box 926 26 John Ross Avenue
Eshowe, KZN Eshowe, KZN

3815 3815

Tel: +27 35 474 7949 Fax: +27 86 621 7160



CLIENT: MDCC

PROJECT: Meiringspark Residential Development

PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: TH12

LATITUDE: 26°52'00.8"S LONGITUDE: 26°37'18.7"E

Sheet 1 of 1

Depth		Description	
	A	Present Ground Surface	
0,5		GRAVELLY CLAYEY SAND Slightly moist, brown, medium dense, intact, fine to medium grained; GRAVELLY CLAYEY SAND - Colluvium with roots.  Note: Andesite cobbles and boulders are present at surface in the surrounding area.  CLAYEY GRAVELLY SILT Slightly moist, brownish orange to pinkish orange with black blotches, medium dense, intact to slightly shattered; CLAYEY GRAVELLY SILT - Residual with weathered Andesite rock fragments.	
1,0	0.70	SILTY SANDY CLAY Slightly moist, orange to olive yellow with black blotches, firm, shattered; SILTY SANDY CLAY - Residual with weathered Andesite rock fragments.	
	1,20	SILTY CLAY SAND Slightly moist, yellowish olive with black blotches, medium dense to dense, intact to slightly shattered; SILTY CLAY SAND - Residual Andesite with weathered rock fragments.	
1,5	1,50	Very soft to soft rock ANDESITE Orange to olive grey with black staining along joint and fracture surfaces, completely to highly weathered, slightly fractured, medium to widely jointed, fine grained, very soft to soft rock; ANDESITE.	
	1,90	End of log	

NOTES: 1: End of hole at 1.9m

2: Slow mechanical excavation at base3: No sample obtained

4: No groundwater encountered

EXCAVATION METHOD: Mechanical Excavation using TLB

DATE PROFILED: 2022-06-30 PROFILED BY: NB CHECKED BY: FCV

**Ground Africa Consulting Engineers** 

PO Box 926 26 John Ross Avenue

Eshowe, KZN Eshowe, KZN

3815 3815

Tel: +27 35 474 7949 Fax: +27 86 621 7160



ground africa

CLIENT: MDCC

PROJECT: Meiringspark Residential Development

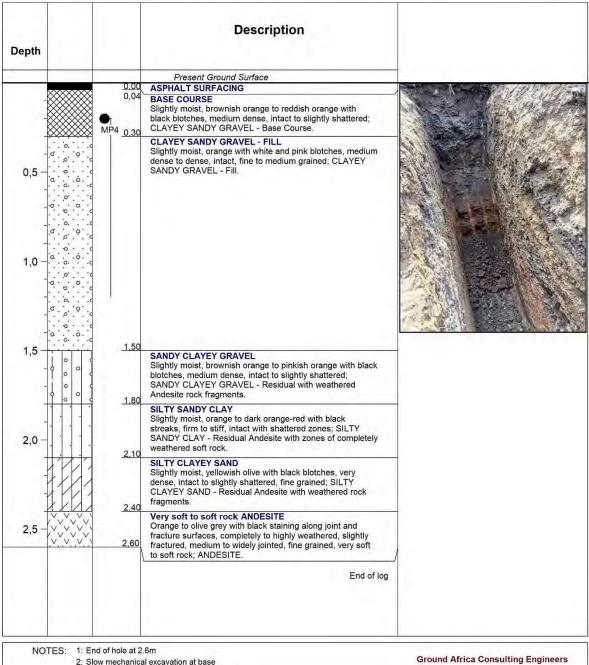
PROJECT NO: GA0851/2022

LOCATION: Klerksdorp, NW Province

HOLE No: **TH13** 

LATITUDE: 26°51'59.3"S LONGITUDE: 26°37'26.6"E

Sheet 1 of 1



EXCAVATION METHOD: Mechanical Excavation using TLB DATE PROFILED: 2022-06-30

4: No groundwater encountered

3: Sample MP4 obtained from 0.2m to 1.2m

PROFILED BY: NB CHECKED BY: FCV **Ground Africa Consulting Engineers** 

PO Box 926 26 John Ross Avenue

Eshowe, KZN

3815

Tel: +27 35 474 7949

Eshowe, KZN

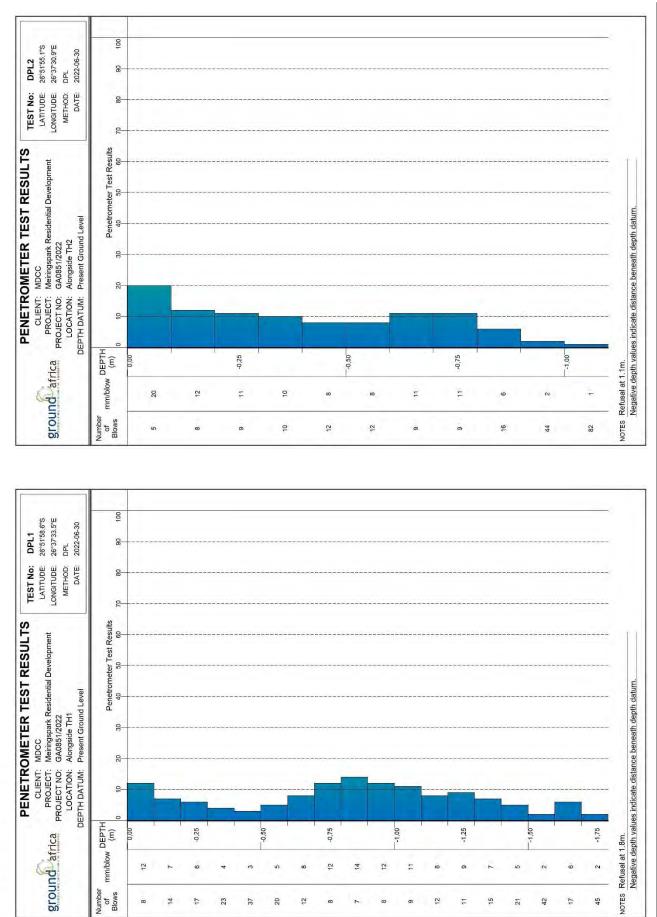
Fax: +27 86 621 7160



## APPENDIX C Dynamic Penetrometer Light Test Results

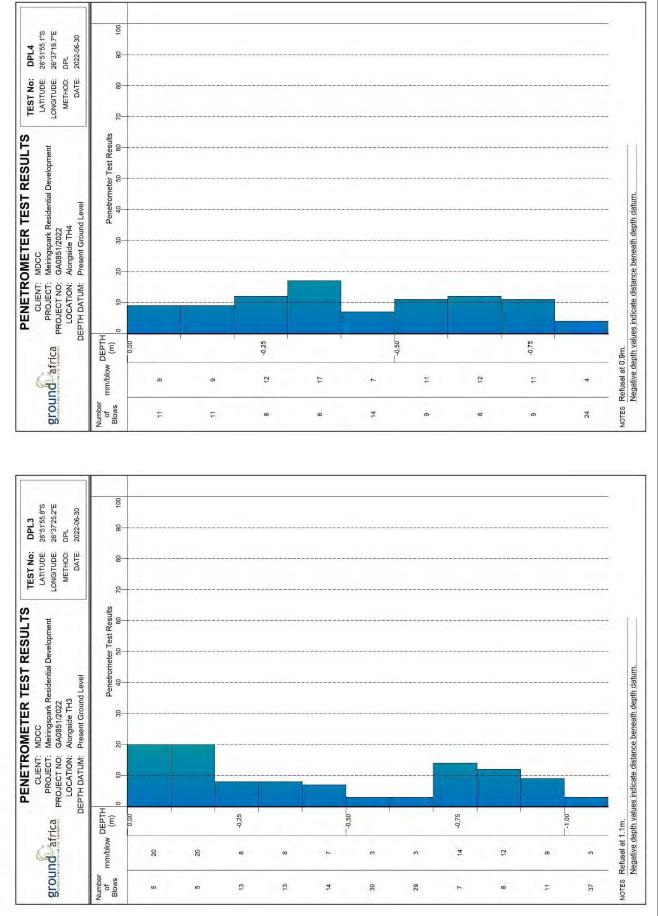
# **Dynamic Penetrometer Light Test Results**





# **Dynamic Penetrometer Light Test Results**



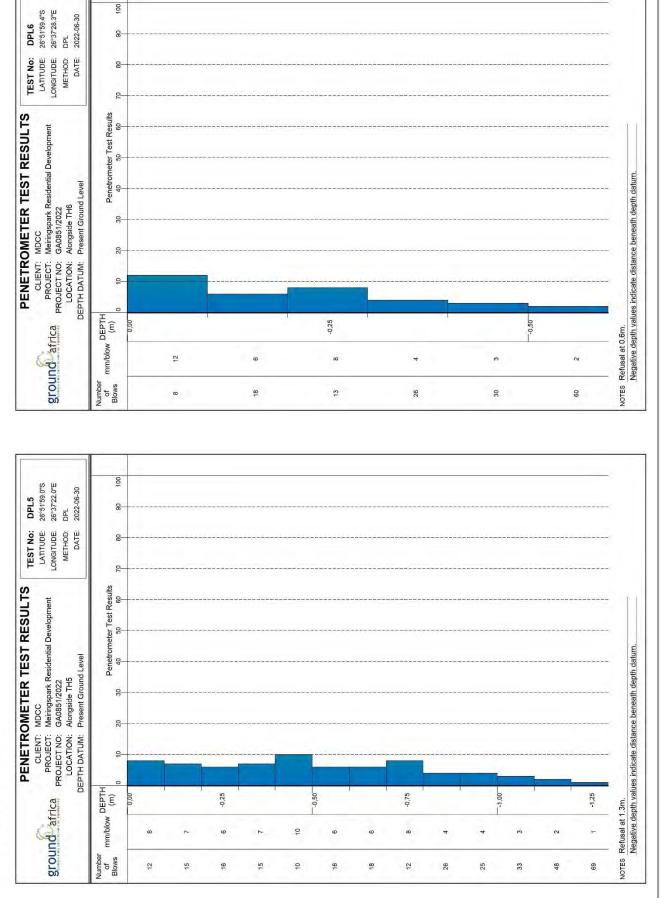


Project GA0851/2022

July 2022

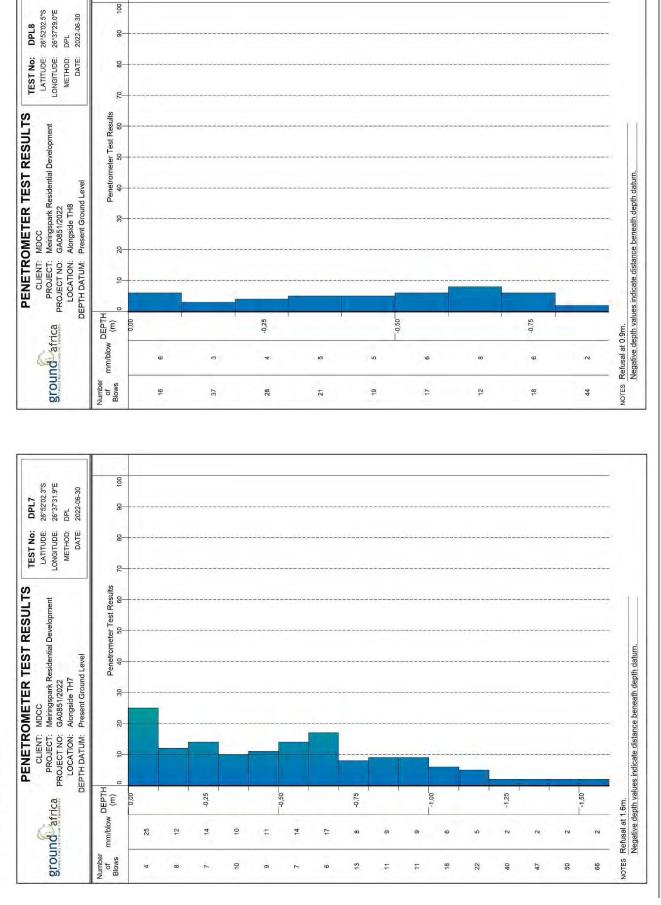
# Dynamic Penetrometer Light Test Results





# Dynamic Penetrometer Light Test Results



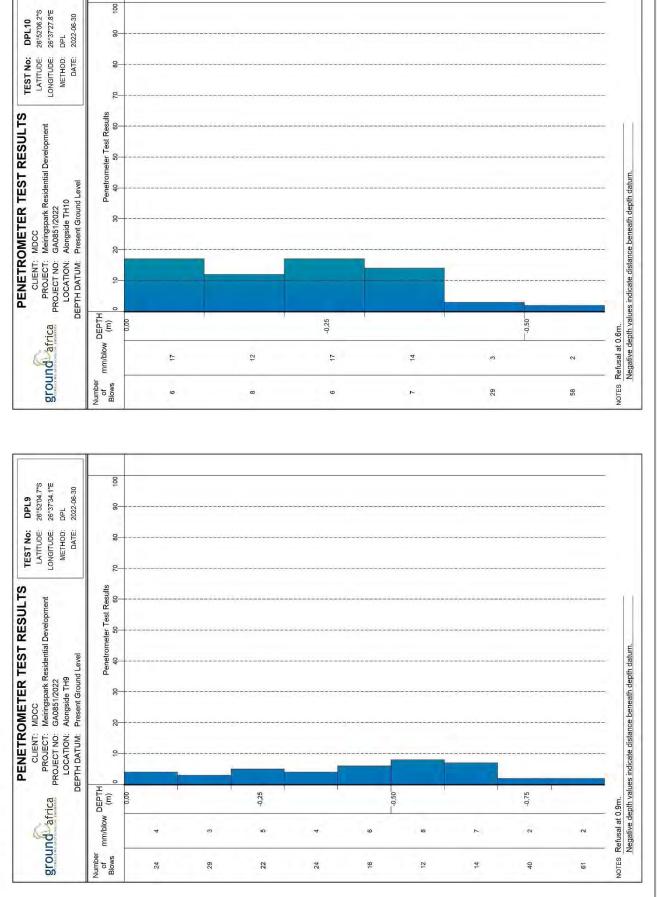


Project GA0851/2022

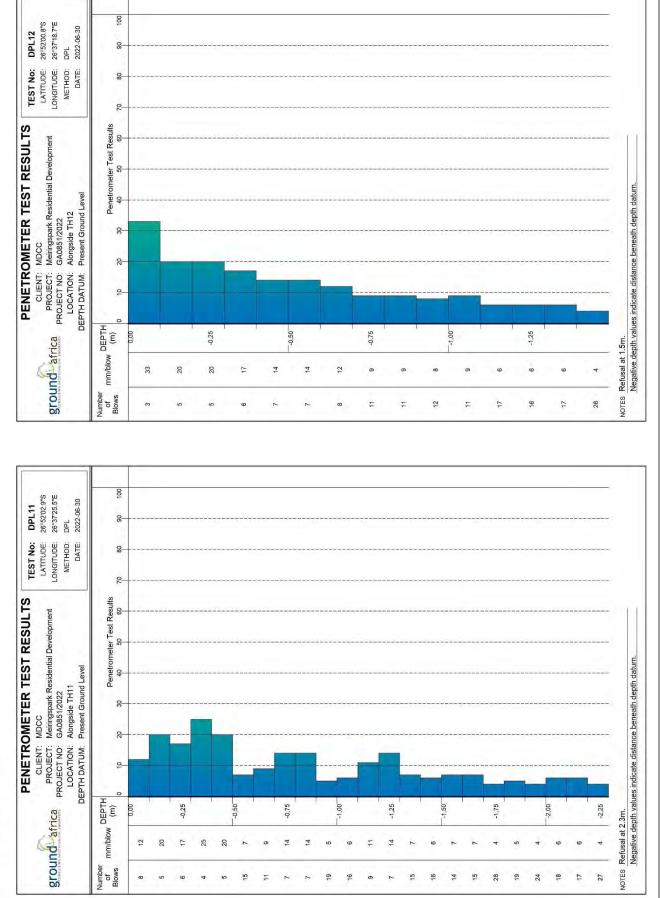
July 2022

## **Dynamic Penetrometer Light Test Results**



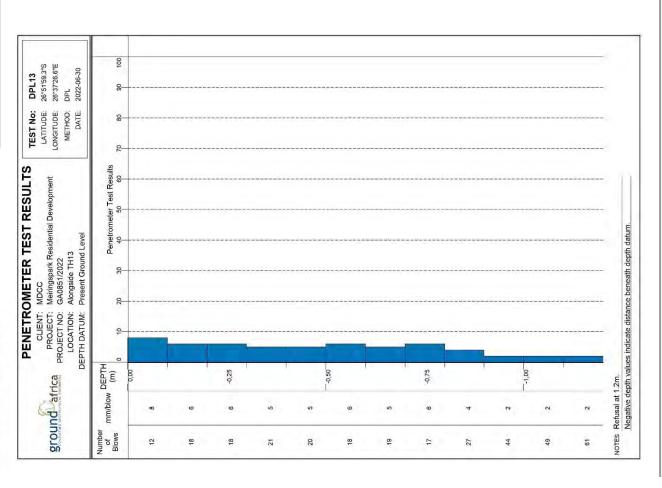






Project GA0851/2022

July 2022





## APPENDIX D Laboratory Test Results



State of the state of the state				2 5 1	Earciatoly icot Cammaily	VAL KEU, 18902 1991
Job Description: Job no.:	9582 MP Development					2. Alcomoter Park P. O. 807. 2064 WAYPER PARK PARK PARK PARK PARK PARK PARK PAR
Lab no.		07055	07056	07057		
Location		MP 1 (TH1)	MP 2 (TH4)	MP 4 (TH13)		
Depth		1,3	9'0	0,2-1,2		
Description			3-			
		ā		100		
Binder Material		X	37			
	75			100		
	53			26		
	37,5			95		
	26.5			06		
	0.1		100	87		
(wı	2.52		96	80		
ш) :	ى د	100	06	75		
əziş	4.75	97	29	62		
S ƏI	2	83	48	47		
tjc	0 425	74	41	39		
Pa	0.25	7.1	30	36		
	0.15	67	36	3 8		
	0.075	58	20	22		
	0.05	55	28	36		
	000	A6	25	22		
	20,0	36	22	1 6		
	2000	32	30	2 8		
	Coarse Sand <2 0 >0 405mm	10.7	2 14 8	0.81		
	Coarse Cana A. C. C. C. L. C. C. L. C.	40.0	2,46	0,0		
Mortar	Sit / O OF YO OF	40,2	0,10	5.7		
More	200 C 200 C 200 C	0,00	0,0	0.0		
	Ciay >0.003	32,0	0,01	0,0		
	Liquid Limit	35,5	34,2	31,6		
Atterberg	Plasticity Index	10,3	12,7	9,3		
Limits	Linear Shrinkage	6,7	4,7	S		
	Natural MC	-1	-	,		
Mod AASHTO	Density Kg/m ³			1858		
Density	OMC			14,1		
	100%			14		
	%86			13		
CBR	%96			1.1		
	93% (Inferred)			11		
	%06			.11		
	CBR Swell			00'0		
AASHTO Soil Classification	ssification	A-6(4)	A-2-6(0)	A-2-4(0)		
Grading Modulus		0,85	1,81	1,87		
TRH 14 (1985)	WT = Worse Than			68		

Project GA0851/2022 July 2022





THEKWINI SOILS LABORATORY CC

24 Alexander Road WESTMEAU 3610 P. Q. BOX 30464 MAYVILLE 4058

Project: 9582

Ref no.: MP Develo Lab no.: 07055 Borehole/Pit no.: MP 1 (TH1)

Depth: 1,3

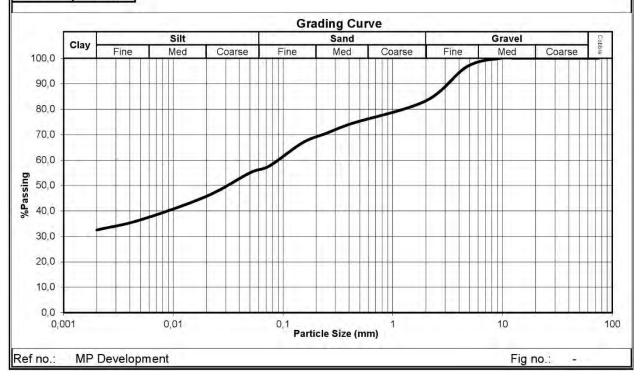
Grading Analysis	
	e %Passing
75 ^(mm) —	100,0
53	100,0
37,5	100,0
26,5	100,0
19	100,0
13,2	100,0
9,5	100,0
4,75	96,8
2	83,3
0,425	74,4
0,25	70,6
0,15	66,8
0,075	57,7
0,05	55,0
0,02	45,7
0,005	36,5
0,002	32,5

M.I.T SIZE	and the
CLASSIFIC	ATION
Cobble%	0,0
Gravel%	16,7
Coarse	0,0
Medium	2,4
Fine	14,3
Sand%	27,2
Coarse	7,9
Medium	6,7
Fine	12,6
Silt%	23,6
Coarse	10,3
Medium	8,7
Fine	4,6
Clay%	32,5

PLASTICITY	
Liquid Limit	35,5
Plasticity Index	10,3
Linear Shrinkage	6,7

GRADING	7 4 4
D10 Size (mm)	<0.002
Uniformity Coefficient	NA
Grading Modulus	0,85

CLASSIFICATION	
Potential Expansiveness	Low
Group Index	4
AASHTO Soil Classification	A - 6
Unified Classification	ML or OL







THEKWINI SOILS LABORATORY CC

Project: 9582

Ref no.: MP Develo Lab no.: 07056 Borehole/Pit no.: MP 2 (TH4)

Depth:

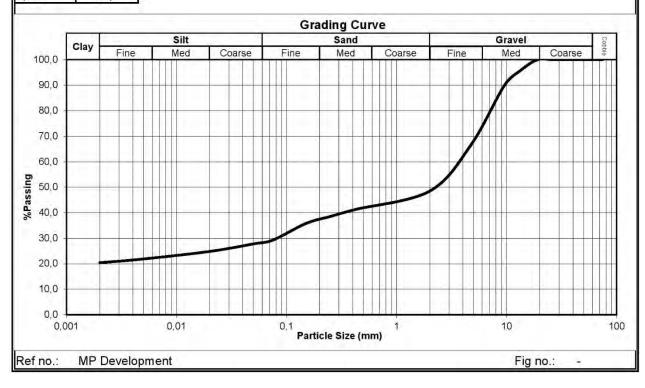
Grading Analysis	
Grain Size	%Passing
75 ^(mm) —	100,0
53	100,0
37,5	100,0
26,5	100,0
19	100,0
13,2	95,6
9,5	89,8
4,75	66,6
2	48,5
0,425	41,3
0,25	38,5
0,15	35,8
0,075	29,2
0,05	27,8
0,02	24,8
0,005	21,8
0,002	20,4

M.I.T SIZE	
CLASSIFIC	ATION
Cobble%	0,0
Gravel%	51,5
Coarse	0,0
Medium	27,3
Fine	24,3
Sand%	20,1
Coarse	6,4
Medium	4,9
Fine	8,8
Silt%	8,0
Coarse	3,6
Medium	2,8
Fine	1,7
Clay%	20,4

PLASTICITY	
Liquid Limit	34,2
Plasticity Index	12,7
Linear Shrinkage	4,7

GRADING	
D10 Size (mm)	< 0.002
Uniformity Coefficient	NA
Grading Modulus	1,81

CLASSIFICATION	
Potential Expansiveness	Low
Group Index	0
AASHTO Soil Classification	A-2-6
Unified Classification	SC







THEKWINI SOILS LABORATORY CC VAT REG. 46902 10961 UNIT 16, Alexander Fork 24 Mexander Road F. O. BOX 30404

Project: 9582

Ref no.: MP Develo Lab no.: 07057 Borehole/Pit no.: MP 4 (TH13)

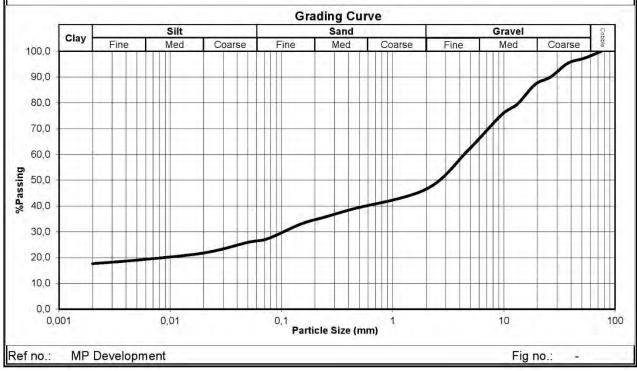
Depth: 0,2 - 1,2

Grading Analysis	
Grain Size	%Passing
75 ^(mm) —	100,0
53	97,4
37,5	95,4
26,5	90,2
19	87,1
13,2	79,5
9,5	75,3
4,75	61,6
2	46,5
0,425	38,7
0,25	35,8
0,15	33,0
0,075	27,3
0,05	25,9
0,02	21,8
0,005	19,0
0,002	17,6

CLASSIFICATION	
Cobble%	1,8
Gravel%	51,7
Coarse	10,7
Medium	22,3
Fine	18,6
Sand%	20,1
Coarse	7,0
Medium	5,2
Fine	7,9
Silt%	8,8
Coarse	4,7
Medium	2,6
Fine	1,6
Clay%	17,6

Liquid Limit	31,6
Plasticity Index	9,3
Linear Shrinkage	5
GRADING	
D10 Size (mm)	<0.002
Uniformity Coefficient	NA
Grading Modulus	1,87

CLASSIFICATION		
Low		
0		
A-2-4		
SC		

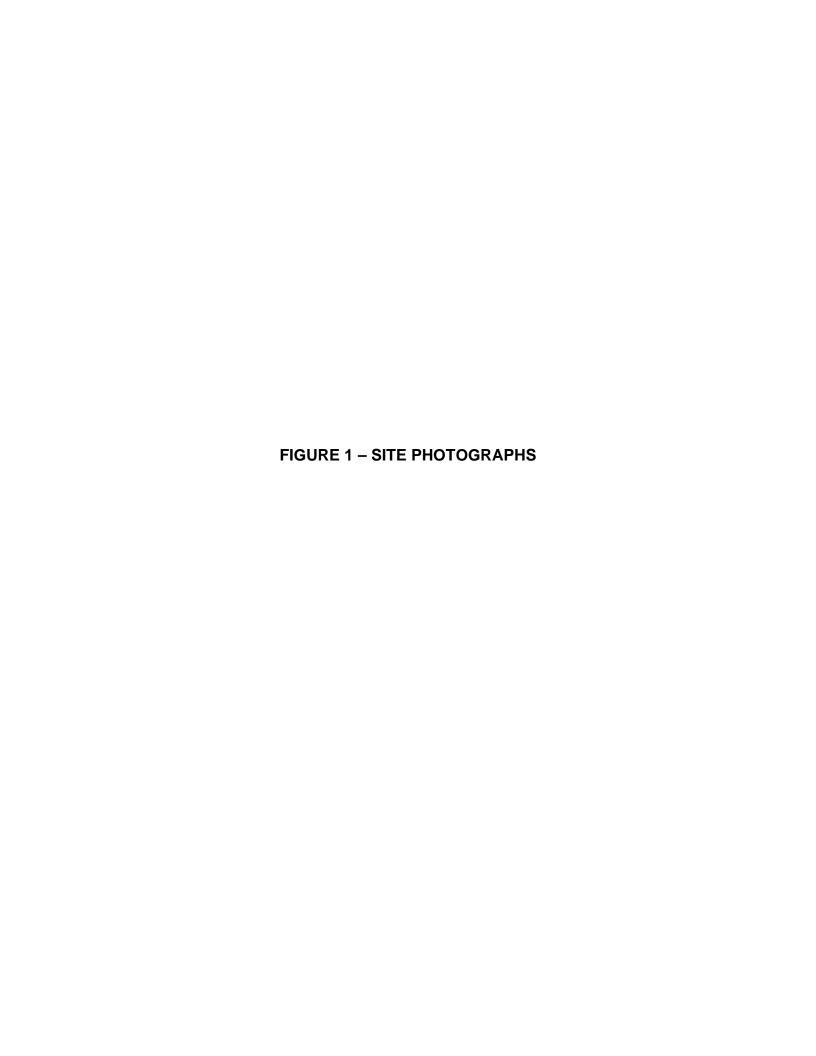




See Annexure 7 of EIA Application for Authorisation form

### **APPENDIX F – OTHER REPORTS**

NO OTHER REPORTS





Old drive-in road



Old drive-in entrance building



Central site to northwest



Rubble on site



Central site to northeast



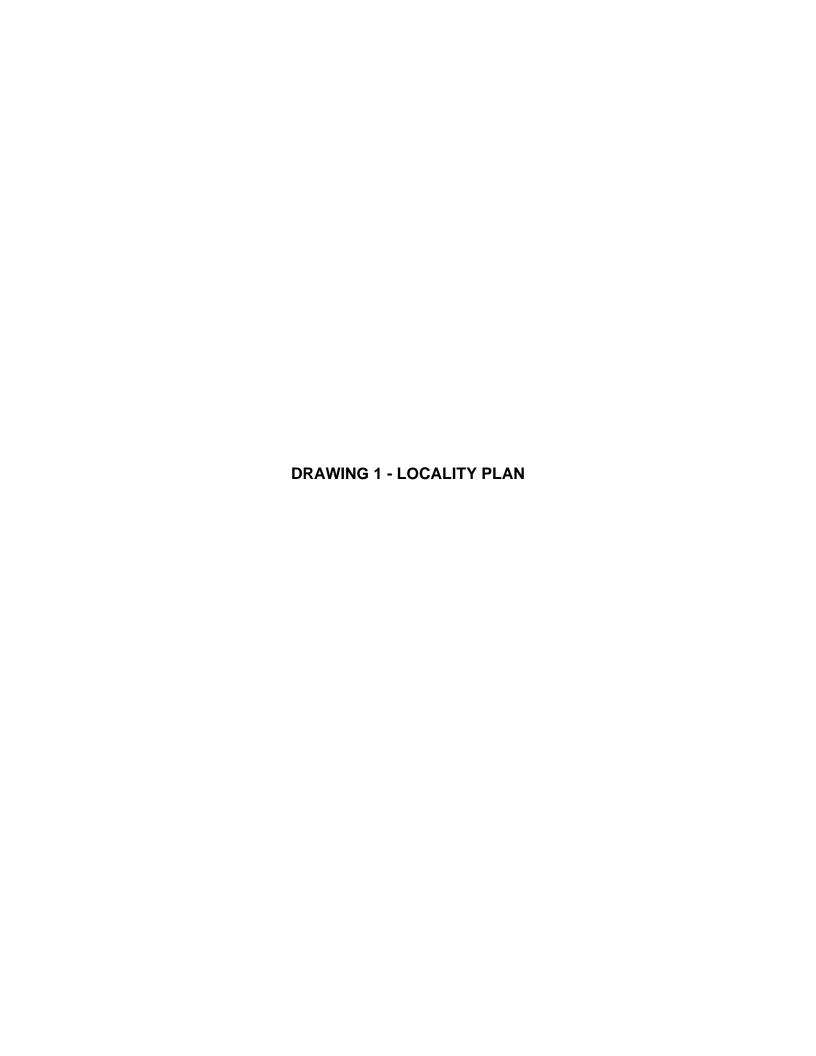
Dumping/littering on site

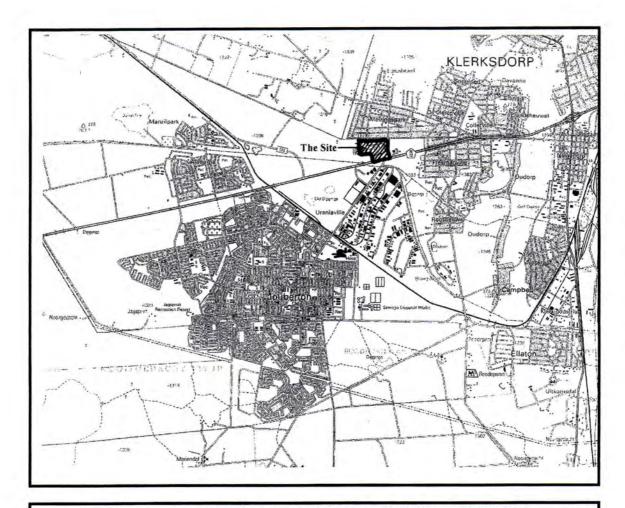


Drive-in berms central site



Adjacent development NE of site





Environmental studies

The Farm Townlands of Klerksdorp no.424-IP

Landscape Architecture Architecture

LOCALITY PLAN

ecologic AFRIKA PO Box 8079 CENTURION 0046

1:50 000

Tel 012-6614863

(West of Klerksdorp between RIO CASINO & SHELL Ultra City) Fax 012-6615251











