Application for an Environmental Authorisation for the Storage of Dangerous Goods in the Sterkfontein Warehouse located in Olifantsfontein, Gauteng Province.

Draft Scoping Report

GDARD Ref: GAUT 002/22-23/E3549

Report Prepared for

UPL OpenAg

Report Number 593684/Draft Scoping Report

Report Prepared by

srk consulting

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Executive Summary

Introduction

SRK Consulting (South Africa) (Pty) Ltd (SRK) has been appointed by UPL OpenAg (UPL) as an independent Environmental Assessment Practitioner (EAP) to undertake the application for an Environmental Authorisation (EA) for the proposed dangerous goods storage warehouse, i.e. for the storage of classified dangerous good (total capacity currently estimated at 1000 m^3) and for the storage of a non-classified dangerous good (total capacity of 400 m^3), in a Sterkfontein existing Warehouse in Olifantsfontein, Gauteng Province.

The reports and documentation for the EA application processes will be compiled and finalised for submission to the Gauteng Department of Agriculture and Rural Development) (GDARD), for consideration and decision making. Where required, GDARD will consult with other government authorities as required in terms of Section 24(K) of the NEMA.

Who will evaluate the EIA/EMPr?

Before the proposed development can proceed, approval has to be obtained from Gauteng Department of Agriculture and Rural Development) (GDARD). The proposed project triggers activities listed in terms of Listing Notice 2 (Activity 4) of the National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA) (as amended) and will require an EA from GDARD. Since the project triggers activities in Listing Notice 2 of the NEMA, a full Environmental Impact Assessment (EIA) including Scoping and Impact Assessment will be followed as stipulated in Government Notice Regulation (GNR) 326 of the NEMA, as amended.

The draft Scoping Report and Plan of Study (PoS) will be submitted to all interested and Affected Parties (I&APs) for review and comment. Where required, comments received will be incorporated into this final Scoping Report to be submitted to GDARD. GDARD will then advise the project team as to how the project should proceed for the impact assessment phase of the project.

The impact assessment phase will entail detailed specialist investigations (if required), reporting and further stakeholder consultation. Only once a Final Environmental Impact Assessment Report (EIR) and Environmental Programme (EMPr) have been submitted to GDARD, can a decision be taken by the Departments as to whether the project may proceed or not.

Description of the Proposed Development

UPL is proposing storage of dangerous goods within an existing warehouse in the Olifantsfontein area, Gauteng Province. The storage of a classified dangerous good (total capacity currently estimated at 1000 m^3) and the storage of a non-classified dangerous good (total capacity of 400 m^3), in a Sterkfontein existing Warehouse.

Motivation for the Proposed Project

UPL is currently storing its goods in Pomona, where UPL has been renting a warehouse. However, the lease agreement between UPL and the Pomona warehouse owner is expiring, and the owner is opting to sell the warehouse. In addition, the warehouse that UPL has been renting in Pomona is not zoned correctly and UPL has over the years requested the warehouse owner to sort out the zoning issues with no success. UPL therefore has to relocate its operations.

The proposed project area has an existing warehouse that is currently vacant and is located in an industrial zone that is ideal for the UPL operations. The warehouse provides adequate storage capacity for the UPL goods. No additional services such as water, sewer, stormwater management

etc will be required as existing services will be utilised. The negative environmental impacts associated with the proposed project will be limited since the project will make use of an existing warehouse and thus no construction will be required.

UPL is involved in the manufacture, supply and marketing of agrochemicals, industrial chemicals, chemical intermediates, and specialty chemicals worldwide. The agro-business is the company's primary source of revenue and includes the manufacture and marketing of conventional agrochemical products, seeds, and other agricultural-related products. The non-agro segment includes manufacturing and marketing industrial chemicals and other non-agricultural products such as fungicides, herbicides, insecticides, plant growth regulators, rodenticides, industrial & specialty chemicals, and nutrifeeds. Not implementing the project will mean that UPL OpenAg will not have the requires storage space for their materials that are required by other businesses and will impact on UPL's ability to supply the required materials and chemicals to businesses that require them. The relocation of UPL's operations will allow UPL to continue with its operations, else UPL may be required to reduce its staff complement, resulting in negative socio-economic impacts.

Alternatives Considered

The alternatives considered include:

- Alternative 1 (Preferred site) The preferred site (Sterkfontein) has an existing warehouse that is already kitted with the required infrastructure. The warehouse provides adequate storage capacity for the UPL goods and is located in an area ideal for the proposed activity, an industrial complex for this type of activity. No additional services such as water, sewer, stormwater management etc will be required as existing services will be utilised. The negative environmental impacts associated with the proposed project will be limited since the project will make use of an existing warehouse and thus no construction will be required.
- Alternative 2 : Alternative 2 entails storage of dangerous goods at the current place in Pomona. It must however be noted that the Pomona storage area is not an ideal option since UPL is currently renting the space and the lease agreement between UPL and the Pomona warehouse owner is expiring, and the owner is opting to sell the warehouse. In addition, the warehouse that UPL has been renting in Pomona is not zoned correctly and UPL has over the years requested the warehouse owner to sort out the zoning issues with no success.
- No-Go Option: The assessment will also include the "no-go" option.

Environmental Impact Assessment Process

Approach to the Environmental Impact Assessment

An EIA seeks to identify the environmental consequences of a proposed project from the beginning, and helps to ensure that the project, over its life cycle, will be environmentally acceptable, and integrated into the surrounding environment in a sustainable way. The project triggers activities listed in GNR325 (Listing Notice 2) of the NEMA and requires that a full EIA (scoping and impact assessment phases) be conducted.

Two parallel processes are followed during the scoping phase being the environmental technical process and stakeholder engagement process. This report is the Draft Scoping Report and forms the first phase in the process after which the EIA phase will be initiated. A summary of this process is shown in Figure ES-1.

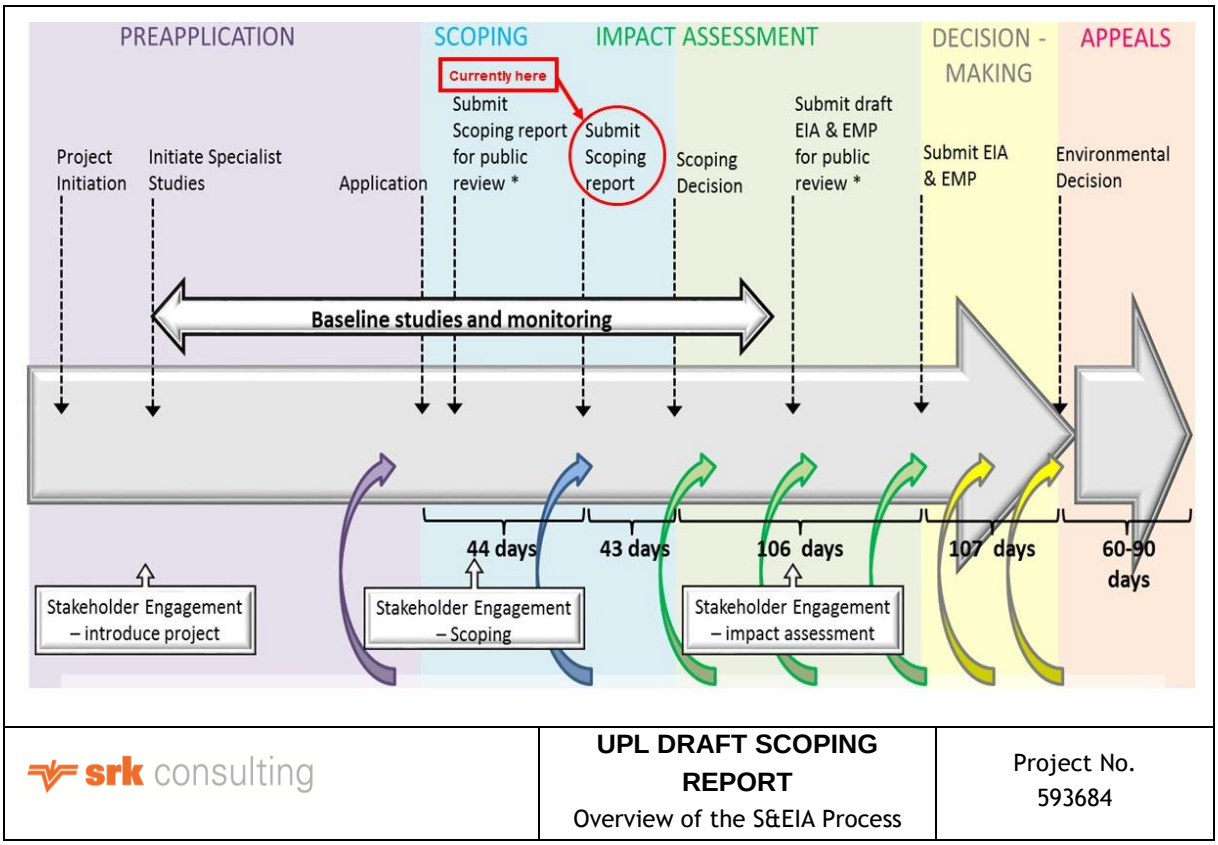

Figure ES - 1: Overview of the Environmental Impact Assessment Process

Stakeholder Engagement Process

A pre-application consultation meeting was requested from GDARD on 31 January 2023 to discuss the proposed project, required authorisations and the EIA process to be followed, however at the time of submission of this report, the meeting date had not yet been set.

Activities that have been undertaken for the public consultation process during the pre-application process are:

- Development of a stakeholder database: The stakeholder database comprises a variety of stakeholders identified from previous projects in the area, newly identified stakeholders through the initial registering process of this project.

The opportunity to participate in the EIA and to register as an Interested and Affected Party (I&AP) was announced through the following means:

- Letter of invitations to register were sent to I&APs on 27 January 2023;
- Media advertisement in English was placed in the Olifants News on the 27th of January 2023;
- Site notices were erected at several places in and around the proposed study area on the 27th of January 2023;
- Collation of comments received will be included in the Comments and Responses Register (CRR); and
- Obtaining and documenting registration and comment sheets.

The Draft Scoping Report will be made available for a 30-day commenting period from 10 March 2023 to 09 April 2023. All issues, comments and suggestions received from stakeholders will be reviewed

and collated into a CRR. Where necessary, comments from stakeholders will also be incorporated into the Final Scoping Report to be submitted to GDARD for decision-making on the EA application.

Once the Competent Authority has accepted the Final Scoping Report, the EAP will compile the EIR and EMPr, which will also be made available to the stakeholders for a 30-day review and comment period. Comments received will be incorporated into the Final EIAR and EMPr which will be submitted to GDARD for final decision making. The comments will also be collated into the CRR, which will form an Appendix to the EIR.

The stakeholders will be notified of GDARD's Final decisions on the project once it has been communicated to the EAP and applicant (UPL).

Profile of the receiving Environment

The Scoping Report provides a general description of the status quo of the receiving environment in the project area. It serves to set the scene and provide context to the area within which the scoping exercise was conducted. This section also includes the main issues/impacts associated with each aspect and how the proposed expansion will affect the biophysical and social environment. A summary of the main baseline aspects is included in Table ES-1, with more detail included in Section 10 of the report.

Table ES - 1: Summary of the Profile of the Receiving Environment

Aspect	Description
Climate	Rainfall in the City of Ekurhuleni area is typical of the Highveld summer rainfall region where more than 80% of rainfall occurs from October to April. Average rainfall is 715 mm to 735 mm annually. Hail can be expected periodically and mild damage to fruit harvests usually occurs in two out of three years, while severe damage occurs every two out of five years. According to the agricultural potential criteria of the National Department of Agriculture, the study area is suitable for rainfed crop production, provided that the crops are grown in areas with deep soil which stores water for use during dry periods in the growing season. Severe frost occurs frequently from mid-April to September. Temperatures below freezing are common in winter. Summers are mild with temperatures seldom above 30ºC. Northerly and north-westerly winds blow during winter and spring and north-easterly to north-north-easterly winds during summer. Winds are usually gentle, and strong winds are only experienced 15% of the time. Moderately high-speed winds occur from late winter to early spring. Wind damage to field crops is rare, but damage to deciduous fruit quite common (Ekurhuleni Metropolitan Municipality, 2008).
Topography	The City of Ekurhuleni is located on the Southern African continental divide and part of the major watershed between the rivers that drain west towards the Atlantic Ocean and those that drain east towards the Indian Ocean. The area can generally be regarded as flat with a few outstanding topographical features. The following topographical features occur: Plains with pans; Undulating plains with pans; Strongly undulating plains; Superimposed river valley (Blesbokspruit) on plains with pans; and Ridges (Ekurhuleni Metropolitan Municipality, 2008).
Geology	The City of Ekurhuleni is situated on a transition zone between the formations of a large granite batholith on its western border to the formations of the Witwatersrand and Transvaal Supergroups that is dominated by dolomites overlain by younger sediments of Karoo Supergroup in places. The dominant formations in the area are Granite-gneiss that is found in the northwest at Tembisa and to the west of Clayville. Dolomite that dominates the northern area between Clayville in the west and Bapsfontein in the east and all along the eastern boundary of the area towards Putfontein, Strubenvale as far south as Kwa-Thema and Dunnotar as well as an

Aspect	Description
	estensive area of dolomite in the southwest, south of Elspark and Withok Estates. Quartsite that dominates the north-south central area from the west of Clayville in the north through Kaalfontein, to the east of OR Tambo Airport and in a broad band from west to east from Germiston to Springs and also north of Bapsfontein. Surface shale is found in the west, south of Bapsfontein and in the east, south of OR Tambo Airport towards Germiston. Amphibolite occurs in the area around Edenvale east of Kempton Park and OR Tambo. A small area of surface dolorite occurs in the extreme south between Duduza and Vosloorus. The geological stability of an area is a key consideration in the area with a generally high possibility of sink holes and earth tremors in undermined areas (Ekurhuleni Metropolitan Municipality, 2008).
Sub-surface Hydrology	The City of Ekurhuleni area is dominated by dolomite of the Chuniespoort Group (part of the Transvaal System) and tillites of the Dwyka Group (part of the Karoo System), both of which carry water. The presence of various geological structures, such as faults, fissures, and fracture zones, as well as contact zones of intrusions such as dykes and sills, dictate the occurrence of groundwater. Karst, Intergranular and Fractured Aquifers are the dominant aquifer types in the City of Ekurhuleni. The Karst Aquifers occur in the dolomites of the Chuniespoort Group. This is the most important aquifer type in South Africa. Infiltrating rainwater containing weak carbonic acid dissolves dolomites resulting in caves and cavities that may facilitate the formation of sinkholes, especially if the water from these cavities is extracted through boreholes. Boreholes with the highest yield are found in the dolomites that occur from Wadeville to just south of Vosloorus. Yields of more than 10 litres per second are common. High recharge of underground water and significant underground flow result in low density surface drainage in dolomitic areas. This underground flow often supports high yielding springs at impermeable boundaries, such as dykes or lithological contact points. Ground water quality in the study area is generally acceptable for any use. In some areas contamination with chlorides, sulphates and nitrates has been recorded and care should be taken with groundwater used for human consumption. Groundwater from the Dwyka Group is generally suitable for any use. Groundwater yield from aquifers in this formation is, however, low. Due to the mining activities in the area, ground water quality is under threat of acid water pollution from mines (Ekurhuleni Metropolitan Municipality, 2008).
Soils, land use, and land capability	Soil underlying the study area can be described as clayey loam type. Clay loam soils contain around 30-40% of clay and 20-45% sand, with lower levels of silt. Clay loam soils are characterized as fine-textured. soils, with medium to high water holding capacity, medium fertility, and lower drainage rates (TerraAfrica, 2020).
Noise	Noise in the project area is currently mostly generated by vehicle traffic and other surrounding industries. Since this project will not have any construction phase, noise impacts are not anticipated.
Visual	The site visually will not be altered since no new construction structures will be introduced.
Surface Water	As per Macfarlane et al, (2009) one of the most important aspects of climate affecting a surface water resource vulnerability to altered water inputs is the ratio of Mean Annual Precipitation (MAP) to Potential Evapotranspiration (PET) (i.e. the average rainfall compared to the water lost due to the evapotranspiration that would potentially take place if sufficient water was available). The site is situated in the Quaternary Catchment A21B. In this catchment, the precipitation rate is lower than the evaporation rate with a Mean Annual Precipitation (MAP) to Potential Evapotranspiration (PET) of 0.31. Consequently, watercourses in this area are sensitive to changes in regional hydrology, particularly where the catchment becomes transformed and the water available to sustain them becomes redirected. Quaternary Catchment A21B is located in the first water management area (WMA), Limpopo

Aspect	Description
	(DWS, 2016). In this WMA the major rivers include the Limpopo, Matlabas, Mokolo, Lephalale, Mogalakwena, Sand, Nzhelele, Mutale and Luvuvhu. The watercourses associated with the site are listed as the Olifantspruit and tributaries which drain into the Sesmylspruit and then the Hennops River approximately 4km northeast of the northernmost extent of the road. The Hennops River decants into the Crocodile River which decants into the Limpopo River.
Wetlands	Based on current outputs of the NFEPA project (Nel et al., 2011), there are several NFEPA wetlands or wetland clusters located within the Olifantsfontein area and within several kilometres from the study area's catchment. There is an Artificial Flat wetland within 500m of the study area, based on the NFEPA spatial data,
Areas of conservation concern	The project site is located in a Critical Biodiversity Area (areas that are required to meet biodiversity targets for species, ecosystems, or ecological processes)
Biodiversity	The project site is located in the Grassland Biome and Dry Highveld Grassland bioregion. The vegetation in and surrounding the project site is Carletonville Dolomite Grassland (GH15). This vegetation type has been classified as vulnerable although it is not included within the national list of ecosystems that are threatened and in need of protection (GN 1002 of 2011) published under the National Environmental Management Biodiversity Act (Act No. 10 of 2004). The study area is located within a relatively dense industrial area with most of the landscape being transformed comprising of hard surfaces and large build-up areas.
Socio-Economy	The City of Ekurhuleni has been experiencing a significant population growth in the last 20 years. Since 2000 the City's population increased from an estimated 2.3 million individuals to approximately 3.3 million in 2016. The City's population growth rate is steady at 2.47% per annum, coming down from a high of 4% per annum in the period between 1996 and 2001. The current population represents over 6% of the total population of South Africa (StatsSA: 2017). An important contributor to the growth in the Ekurhuleni population is the in-migration into the City (City of Ekurhuleni: 2018). Olifantsfontein is divided into 3 main suburbs, namely Clayville East (the entire area east of the passing Metrorail Line), Clayville Industrial (the entire area south of View Road, with many industrial operations) and Clayville CBD with its extensions (the area north of View Road). The area's total population amount to 14,526 people.
Heritage and Cultural Aspects	Based on the SAHRIS database, the study area is within a highly sensitive area and a field assessment and protocol for finds is required. It is the opinion of the EAP that the Paleontological Impact Assessment will not be required since the proposed development will not result in disturbance of paleontological or heritage artifacts or objects of importance. The DFFE screening tool results shows that the site is of low sensitivity in terms of heritage and cultural importance.

Anticipated Impacts

The scoping phase aims to identify the potential positive and negative biophysical, socio-economic, and cultural impacts that the proposed project. Anticipated impacts that have been identified by the project team are summarised in Table ES-2.

All impacts in terms of construction, operation, and decommissioning together with the recommended mitigation measures will be and addressed in the impact assessment phase of the project.

Table ES - 2: Anticipated Impacts

Element of Environment	Potential Impact Descriptions
Socio-Economic	Possible job and business opportunities during all phases of the project.
Noise	Possible generation from vehicles delivering materials to site.
Traffic	Possible impacts on traffic due to transportation materials to site
Air Quality	Possible emission of odour from chemicals
Biodiversity	As the proposed warehouse is located within the footprint of an already sterilised industrial area, no loss of biodiversity is expected as result of the operation of the project. There is potential for loss of biodiversity from proliferation of alien invasive plant species
Surface Water	Possible, but unlikely groundwater contamination.
Groundwater	Possible, but unlikely surface water contamination.
Waste Management	Potential ground and surface water impacts due to improper waste management practises. Potential odours due to improper waste management practises

Preliminary high level mitigation measures have been identified and summarised in Section 12. Specific mitigation measures will be identified during the impact assessment phase of the process. The potential impacts identified will be assessed during the impact assessment phase of the process.

Specialist Studies

According to the DFFE Screening tool, the area is considered to be very high in aquatic biodiversity, palaeontology, and terrestrial biodiversity value.

The proposed development entails storage of dangerous good within an existing warehouse, thus no new construction activities are anticipated. In addition, the warehouse is located in a built-up industrial area, where no vegetation remains. It is the opinion of the EAP that no specialist studies are required to support this EA application process since the area is already sterilised by the existing infrastructure and does not have any remaining vegetation and heritage resources.

An MHI risk assessment will be undertaken as part of the process. Where required, UPL will undertake an application with the municipality to register as an MHI.

The EAP team will be responsible for the identification and assessment of potential impacts that will result from the operation of the proposed project. The EAP team will also identify mitigation measures and monitoring requirements that will ensure that the potential environmental impacts are avoided and/or minimised.

Quantification of Impacts

The anticipated impacts associated with the proposed project will be assessed according to SRK's standardised impact assessment methodology which is presented Section 11.9. This methodology has been utilised for the assessment of environmental impacts where the consequence (severity of impact, spatial scope of impact and duration of impact) and likelihood (frequency of activity and frequency of impact) have been considered in parallel to provide an impact rating and hence an interpretation in terms of the level of environmental management required for each impact.

Plan of Study for the EIA

The Draft Scoping Report is concluded with a Plan of Study (PoS) for the EIA which explains how the EIA will be conducted for the project in accordance with the following:

- Key environmental issues identified during the scoping phase to be investigated further in the EIA phase;
- Feasible alternatives to be assessed further in the EIA phase;
- Development of an EMPr;
- Specialist investigations (if required): it is expected that due to the location of the warehouse and the fact that the required warehouse already exists, no biophysical specialist studies will be required. A Major Hazard Installation (MHI) Risk Assessment will be undertaken to determine whether the warehouse can be classified as an MHI;
- The public participation process to be followed;
- Contents of the EIA/EMPr Report; and
- Consultation with the authorities (Competent and Commenting Authorities).

Conclusion and Recommendation

The aim of this Scoping Report is to provide an indication of the identified, positive, and negative environmental and socio-economic impacts associated with the proposed project activities. The proposed project will be located within an existing warehouse in Olifantsfontein. This site is zoned as Industrial and is in line with proposed project description. Where required, local individuals will be preferably employed as this will be the most economically viable option. UPL is currently storing its goods in Pomona, where UPL has been renting a warehouse. However, the lease agreement between UPL and the Pomona warehouse owner is expiring, and the owner is opting to sell the warehouse. In addition, the warehouse that UPL has been renting in Pomona is not zoned correctly and UPL has over the years requested the warehouse owner to sort out the zoning issues with no success.

UPL is involved in the manufacture, supply and marketing of agrochemicals, industrial chemicals, chemical intermediates, and specialty chemicals worldwide. The agro-business is the company's primary source of revenue and includes the manufacture and marketing of conventional agrochemical products, seeds, and other agricultural-related products. The non-agro segment includes manufacturing and marketing industrial chemicals and other non-agricultural products such as fungicides, herbicides, insecticides, plant growth regulators, rodenticides, industrial & specialty chemicals, and nutrifeeds. Not implementing the project will mean that UPL OpenAg will not have the requires storage space for their materials that are required by other businesses and will impact on UPL’s ability to supply the required materials and chemicals to businesses that require them. Should the project not proceed, UPL may be forced to reduce its staff complement due to reduced business prospects, resulting in negative socio-economic impacts.

The stakeholder engagement in the Scoping Phase was intended to invite stakeholders to register as interested and affected parties in order to allow them to give input in determining possible impacts and allowing their concerns to be adequately addressed in the Impact Assessment Phase of the EIA process. The Scoping Report has presented:

- The environmental process undertaken so far;
- A brief description of the proposed project;
- A baseline description of the current environment;
- The potential environmental and social impacts identified to date; and
- The recommended environmental process to be followed to develop the EIA/EMPr Report.

Once the Scoping Report has been accepted by the GDARD, a draft EIR, including a Draft EMPr, will be compiled and subjected to a round of public comment. The EIR will then be submitted to the authorities for decision-making. On submission of the EIR and EMPr to GDARD, notification will be sent to registered I&APs to inform them of the submission of the documents; and the opportunity to request copies of the Final reports.

Anticipated environmental, social, and cultural impacts have been identified and described in Section 12. Extensive consideration has been given to the proposed location and design of the project and no fatal flaws have been identified during scoping phase. The DFFE environmental screening tool was used to identify the required specialist studies. The preliminary assessment of the DFFE environmental screening report for the proposed project (very high, high, and medium sensitivity) shows that paleontological, aquatic assessment as well as terrestrial biodiversity specialist studies will be required. However, it is the opinion of the EAP, that none of these studies will be required since the proposed development does not include any construction activities and the warehouse is located in already developed and built-up industrial area, limiting potential impacts to the environment. An MHI risk assessment will be undertaken as part of the process. Where required, UPL will undertake an application with the municipality to register as an MHI.

The EAP team will be responsible for the identification and assessment of potential impacts that will result from the operation of the proposed project. The EAP team will also identify mitigation measures and monitoring requirements that will ensure that the potential environmental impacts are avoided and/or minimised.

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Disclaimer

The opinions expressed in this Report have been based on the information supplied to SRK Consulting (South Africa) (Pty) Ltd (SRK) by UPL OpenAg (UPL) The opinions in this Report are provided in response to a specific request from UPL to do so. SRK has exercised all due care in reviewing the supplied information. Whilst SRK has compared key supplied data with expected values, the accuracy of the results and conclusions from the review are entirely reliant on the accuracy and completeness of the supplied data. SRK does not accept responsibility for any errors or omissions in the supplied information and does not accept any consequential liability arising from commercial decisions or actions resulting from them. Opinions presented in this report apply to the site conditions and features, as they existed at the time of SRK's investigations, and those reasonably foreseeable. These opinions do not necessarily apply to conditions and features that may arise after the date of this Report, about which SRK had no prior knowledge nor had the opportunity to evaluate.

List of Abbreviations

AP	Affected Party
AQA	Air Quality Act
BA	Basic Assessment
BID	Background Information Document
CA	Competent Authority
CARA	Conservation of Agricultural Resources Act
CRR	Comments and Responses Report
DAFF	Department of Agriculture, Forestry and Fisheries
DALRRD	Department of Agriculture, Land Reform and Rural Development
DFFE	Department of Forestry, Fisheries, and the Environment
DWS	Department of Water and Sanitation
EA	Environmental Authorisation
EAP	Environmental Assessment Practitioner
EAPASA	Environmental Assessment Practitioners Association of South Africa
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
EIR	Environmental Impact Report
EMF	Environmental Management Framework
EMP	Environmental Management Programme
EMPR	Environmental Management Programme Report
FEPA	Freshwater Ecosystem Priority Areas
GDARD	Gauteng Department of Agriculture and Rural Development
GIS	Geographic Information System
GNR	General Notice Number
HIA	Heritage Impact Assessment
I&APs	Interested and Affected Parties
IDP	Integrated Development Plan

ISO	International Organization for Standardization
IWRM	Integrated Water Resources Management
MAP	Mean Annual Precipitation
NEMA	National Environmental Management Act
NEM:AQA	National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004)
NEM:BA	National Environmental Management: Biodiversity Act 2004 (Act No. 10 of 2004)
NEM:WA	National Environmental Management: Waste Act 2008 (Act No. 59 of 2008)
NFA	National Forestry Act, 1998 (Act No. 84 of 1998)
NFEPA	National Freshwater Ecosystem Priority Areas
NHRA	National Heritage Resources Act, 1999(Act No 25 of 1999)
NWA	National Water Act, 1998 (Act No. 36 of 1998)
PAIA	Promotion of Access to Information Act, 2000 (Act No. 2 of 2000)
PET	Potential Evapotranspiration
SACNASP	South African Council for Natural Scientific Professions
S&EIA	Scoping and Environmental Impact Assessment
SAHRA	South African Heritage Resources Agency
SANBI	South African National Biodiversity Institute
SANS	South African National Standards
SCC	Species of Conservation Concern
SDF	Spatial Development Framework
WMA	Water Management Area
WML	Waste Management License
WUL	Water Use License
WULA	Water Use License Application

1 Introduction and Background

UPL is currently storing its goods in a warehouse in Pomona, Benoni, where UPL has been leasing warehouse space. However, the lease agreement between UPL and the Pomona warehouse owner is expiring, and the owner is opting to sell the warehouse. In addition, the warehouse that UPL has been renting in Pomona is not zoned correctly and UPL has over the years requested the warehouse owner to sort out the zoning issues with no success.

UPL OpenAg (UPL) is therefore proposing to purchase and relocate its operations and store material classified as dangerous goods, which are *goods classified as goods containing any of the substances as contemplated in South African National Standard No. 10234, supplement 2008 1.00: designated "List of classification and labelling of chemicals in accordance with the Globally Harmonized Systems (GHS)" published by Standards South Africa, and where the presence of such goods, regardless of quantity, in a blend or mixture, causes such blend or mixture to have one or more of the characteristics listed in the Hazard Statements in section 4.2.3, namely physical hazards, health hazards or environmental hazards*; in a warehouse located in Sterkfontein, Olifantsfontein. The warehouse will be utilised for the storage of goods classified as dangerous (total capacity of 1000 m^3) and unclassified goods (total storage of 400m^3) in an existing warehouse in Sterkfontein, Olifantsfontein, Gauteng Province. Table 5-1 provides a list of the material that will be stored at the Sterkfontein Warehouse by UPL.

It must be noted that UPL will be making use of an existing warehouse and will require no construction or refurbishment of the existing warehouse. The proposed storage of dangerous goods triggers activities listed in Listing Notice 2 of the National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA) as follows:

Listing Notice 2 (Activity 4): *The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.*

There is an existing Environmental Authorisation (EA) that was issued by the Gauteng Department of Agriculture and Rural Development (GDARD) (then Gauteng Department of Agriculture Conservation and Environment (GDACE)) in 2008 for NEMA listed activities triggered on the same property (Ref: GAUT 002/07-08/N0590 (**Appendix E**). The EA was issued for industrial and commercial development on part of the Remainder of Portion 13 of the Farm Sterkfontein No.401. The EA did not however include the storage of dangerous goods. The UPL project therefore requires an EA from the GDARD.

All activities listed in Listing Notice 2 require that a full Environmental Impact Assessment (EIA) comprising of scoping and impact assessment phases be undertaken as stipulated in GNR982 of the NEMA, as amended by GNR326 of 2017, and amended in 2021.

The reports and documentation for the Environmental Authorisation (EA) application processes will be compiled and finalised for submission to the GDARD for consideration and decision making. Where required, GDARD will consult with other government authorities as required in terms of Section 24(K) of the NEMA.

2 Purpose and context of this document

2.1 Objectives of this Report

This document serves as the Draft Scoping Report for the first phase of the overall EIA process and includes the following objectives:

- Providing an overview of the legal requirements with regard to the proposed project, the proposed project description and anticipated environmental and social issues and impacts that will be further investigated in the EIA;
- To identify and engage with Interested and Affected Parties (I&APs) and allow for adequate participation in the process;
- To assess the receiving environment in terms of current state and determine potential positive or negative impacts which may result due to the proposed development;
- To consider alternatives for achieving the project's objectives;
- To identify significant issues to be investigated further during the execution of the EIA phase; and
- Setting out the scope of the EIA process (Plan of Study) and the Terms of Reference (ToR) for specialist studies and outlining the approach and methodologies to be used in the EIA process, e.g., the proposed impact rating methodology.

This report will be submitted to the GDARD for review and decision making.

2.2 Environmental Authorisation Application Process

The first phase of the EA application process is the scoping phase, which will inform the impact assessment phase. This phase provides Interested and Affected Parties (I&APs) an opportunity to provide the EAP with issues and concerns with respect to the proposed project in order to inform the technical studies so that they can evaluate these concerns during the impact assessment phase of the project.

This Scoping Report provides a description of the proposed project and sets out the proposed scope of the EIA and EMPr (Plan of Study (PoS)) that will be undertaken for the proposed dangerous goods storage warehouse. This includes alternatives that will be evaluated for various aspects of the project, the anticipated potential environmental impacts, issues raised by stakeholders, the specialist studies that will be undertaken including the terms of reference of the specialist studies (if required), and the qualifications and experience of the study team.

Stakeholder engagement is a key element of the environmental decision-making process, and stakeholder engagement forms part of the scoping phase as well as the impact assessment phase.

The Draft Scoping Report will be submitted to the GDARD for acceptance and decision making. All the comments received are captured and addressed where feasible in the Scoping Report and will be captured and addressed in the Environmental Impact Assessment Report (EIR).

Figure 2-1 provides an illustration of the EIA process being followed throughout the EA application.

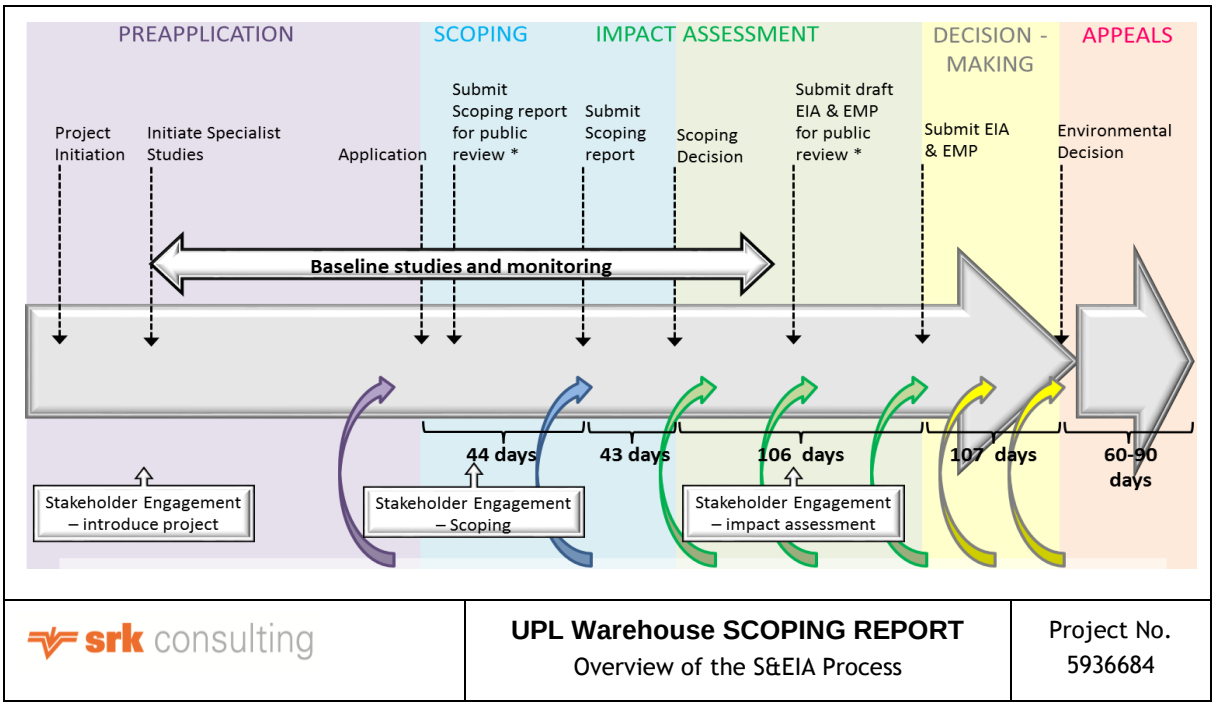


Figure 2-1: Overview the Environmental Impact Assessment Process

2.3 Report Index in Relation to the NEMA Regulations

Regulation 2, Appendix 2 of GNR 982, as amended in 2017 and 2021 published in terms of NEMA stipulates the minimal requirements and issues that need to be addressed in the Scoping Report. This report strives to address all these requirements as per regulations. Table 2-1 provides the regulations that have been addressed and the section of the Scoping Report where these requirements can be found.

Table 2-1: Requirements of Regulation 2 of GNR 326

Section of the EIA Regulations, 2014	Description of EIA Regulations Requirements for Scoping Reports	Section
Appendix 2 (a)	Details of – (i) The EAP who prepared the report; and (ii) The expertise of the EAP, including a curriculum vitae	Section 3.1.2
Appendix 2 (b)	The location of the activity, including – (i) The 21-digit Surveyor General code of each cadastral land parcel; (ii) Where available, the physical address and farm name; (iii) Where the required information in items (i) and (ii) is not available, the coordinates of the boundary of the property or properties.	Section 0
Appendix 2 (c)	A plan which locates the proposed activity or activities applied for at an appropriate scale, or, if it is – (i) A linear activity, a description, and coordinates of the corridor in which the proposed activity or activities is to be undertaken; or (ii) On land where the property has not been defined, the coordinates within which the activity is to be undertaken; or.	Figure 4-1 Appendix C

Section of the EIA Regulations, 2014	Description of EIA Regulations Requirements for Scoping Reports	Section
Appendix 2 (d)	A description of the scope of the proposed activity, including – (i) All listed and specified activities triggered; (ii) A description of the activities to be undertaken, including associated structures and infrastructure.	Section 5 Table 7-1
Appendix 2 (e)	A description of the policy and legislative context within which the development is proposed including an identification of all legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks and instruments that are applicable to this activity and are to be considered in the assessment process.	Section 7
Appendix 2 (f)	A motivation for the need and desirability for the proposed development including the need and desirability of the activity in the context of the preferred location.	Section 9
Appendix 2 (g)	A full description of the process followed to reach the proposed preferred activity, site, and location of the development footprint within the site, including-	
	(i) Details of all the alternatives considered;	Section 6
	(ii) Details of the public participation process undertaken in terms of regulation 41 of the regulations, including copies of the supporting documents and inputs;	Section 8
	(iii) A summary of the issues raised by interested and affected parties, and an indication of the manner in which the issues were incorporated, or the reasons for not including them;	Section 8.5
	(iv) The environmental attributes associated with the alternatives focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects;	Section 10
	(v) The impacts and risks which have informed the identification of each alternative, including the nature, significance, consequence, extent, duration, and probability of such identified impacts, including the degree to which these impacts- (aa) can be reversed; (bb) may cause irreplaceable loss of resources; and (cc) can be avoided, managed, or mitigated.	Section 12
	(vi) The methodology used in identifying and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks associated with the alternatives;	Section 11.9
	(vii) Positive and negative impacts that the proposed activity and alternatives will have on the environment and on the community that may be affected focusing on the geographic, physical, biological, social, economic, heritage and cultural aspects;	Section 12
	(viii) The possible mitigation measures that could be applied and level of residual risk;	Section 12
	(ix) The outcome of the site selection matrix;	Section 12
	(x) If no alternatives, including alternative locations for the activity were investigated, the motivation for not considering such; and	Not Applicable
	(xi) A concluding statement indicating the preferred alternatives, including preferred location of the activity.	Section 15

Section of the EIA Regulations, 2014	Description of EIA Regulations Requirements for Scoping Reports	Section
Appendix 2 (h)	A plan of study for undertaking the environmental impact assessment process to be undertaken including- (i) A description of the alternatives to be considered and assessed within the preferred site, including the option of not proceeding with the activity; (ii) A description of the aspects to be assessed as part of the environmental impact assessment process; (iii) Aspects to be assessed by specialists; (iv) A description of the proposed method of assessing the environmental aspects, including aspects to be assessed by specialists; (v) A description of the proposed method of assessing duration and significance; (vi) An indication of the stages at which the competent authority will be consulted; (vii) Particulars of the public participation process that will be conducted during the environmental impact assessment process; (viii) A description of the tasks that will be undertaken as part of the environmental impact assessment process; (ix) Identify suitable measures to avoid, reverse, mitigate or manage identified impacts and to determine the extent of the residual risks that need to be managed and monitored.	Section 11
Appendix 2 (i)	An undertaking under oath or affirmation by the EAP in relation to- (i) The correctness of the information provided in the report; (ii) The inclusion of comments and inputs from stakeholders and interested and affected parties; and (iii) Any information provided by the EAP to interested and affected parties and any responses by the EAP to comments or inputs made by interested or affected parties.	Section 12.2
Appendix 2 (j)	An undertaking under oath or affirmation by the EAP in relation to the level of agreement between the EAP and interested and affected parties on the plan of study for undertaking the environmental impact assessment.	Section 12.2
Appendix 2 (k)	Where applicable, any specific information required by the competent authority.	Not Applicable
Appendix 2 (m)	Any other matter required in terms of Section 24(4)(a) and (b) of the Act.	Not Applicable

3 Contact Person and Correspondence

SRK Consulting (South Africa) (Pty) Ltd (SRK) has been appointed by UPL OpenAg (UPL) as the independent Environmental Assessment Practitioner (EAP) to undertake the necessary environmental authorisation process and associated stakeholder engagement process to meet the requirements of the NEMA.

3.1.1 Applicant

Table 3-1 provides the details of the applicant and facility owner's representative.

Table 3-1: Applicant contact details

Contact details of the Applicant:
UPL OpenAg (UPL) Physical Address: 7 Sunbury Office Park, Douglas Saunders Drive, La Lucia Ridge Postal Address: PO Box 1726, Mount Edgecombe, 4300 Contact Person: Ricky Rajkaran Mobile 072 236 6924 Tel: 031 514 5600 E-mail: ricky.rajkaran@upl-ltd.com

3.1.2 Environmental Assessment Practitioner

SRK was established in 1974 and has since undertaken a large variety of environmental projects including obtaining environmental authorisations. SRK is a South African founded international organisation of professionals providing a comprehensive range of consulting services to natural resource industries and organisations. South African offices are staffed with over 400 professional consultants in nine offices, operating in a range of disciplines, mainly related to the environment, water, social, and mining sectors. Back-up and peripheral expertise are available within these offices for all environmental projects.

SRK has been appointed by UPL as the EAP. The EAPs involved in the compilation of this S&EIA and their contact details are provided in Table 3-2.

Table 3-2: EAP Contact Details

EAP Name	Contact Number	Email Address
Ndomupei Masawi	012 361 9821	nmasawi@srk.co.za
Manda Hinsch	012 361 9821	mhinsch@srk.co.za
Vusi Masango	012 361 9821	vmasango@srk.co.za
Anthoneth Matlala	012 361 9821	amatlala@srk.co.za
Marissa Swart	012 361 9821	mswart@srk.co.za

Manda Hinsch is a Partner within SRK and is registered Professional Natural Scientist (SACNASP Reg Number 400164/09) and she has a Hons, degree in Water Utilisation and more than 36 years' experience in the water and waste fields, both nationally and internationally. She has been working for more than 15 years a regulator for the Department of Water and Sanitation in developing water quality

management policy and overseeing the implementation there of. The recent 15 years has Manda been a consultant in the wider environmental field for SRK. Being on both side of the water industry has given her a very balanced overview of what is required to comply with legislation but simultaneously be very pragmatic in applying the legislation.

The project manager, Ndomupei Masawi is a registered Professional Natural Scientist (SACNASP Reg Number 400045/14) with a master's degree in Environmental Management, Geographic Information Systems (GIS) and Remote Sensing. She has more than 14 years of Integrated Environmental Management and project management experience. Her experience includes compiling Environmental Management Programmes, undertaking Public Participation Processes, providing GIS Services and undertaking the processes and assessments to support applications for Environmental Authorisations, WULs, Waste Management Licences and Air Emission Licences, for roads, railway lines, power stations, airports, dams, housing developments, schools in South Africa, Tanzania, Botswana, Lesotho, Zimbabwe and Uganda. She has also recently completed her has recently completed her Post Graduate Diploma in Integrated Water Resource Management. Ms Masawi is also a Registered EAP with the EAPASA (Reg:2020/401).

Vusi Masango has been involved in the field of Disaster Management and Environmental Impact Assessments (EIAs) for the past 8 years. He has been involved in various Environmental Impact Assessments and Disaster risk assessment & asset management projects, currently employed by SRK Consulting as a Junior Scientist in the Pretoria office in the Environmental Department. Vusi has completed a National Diploma in Agricultural Science at Tshwane University of Technology in 2012 and is busy with his Bachelor of Arts in Environmental Management in Unisa. Vusi also attended the following courses (Report Writing, Microsoft word level 1 and Microsoft Excel level).

Anthoneth Matlala is an Environmental Scientist, with a BSc (hons). Degree in Environmental Science. She is registered as a Candidate Natural Scientist (SACNASP Reg Number 121047) and a Candidate EAP (EAPASA Reg Number 2020/1161). She has over 4 years of experience in integrated environmental management and project management. Her experience includes compiling environmental management programmes, undertaking public participation processes, providing basic geographic information system (GIS) services, undertaking Environmental Compliance Audits, and undertaking the processes and assessments to support applications for environmental authorisations, water use licences, waste management licences and air emission licences, for hospital incinerators, roads, power lines, power stations, dams, housing developments, and schools through several provinces of South Africa.

Marissa Swart holds an Honours degree in Geography and Environmental Science and is busy completing her master's degree in Environmental Management. Ms Swart has over 1 year experience as an Environmental Scientist at SRK Consulting (South Africa) (Pty) Ltd and is eager to gain further experience in the Environmental Management field. Her expertise includes (but not limited to); EMPR and EA Compliance Audits, Scoping and EIAs, Public Participation, Integrated Stormwater Management Audits, and Water Use Licences.

The Curriculum Vitae and declaration of interest of the EAP team and the background on experience gained by SRK in the field of Environmental Impact Assessments is provided in Appendix A and Appendix B respectively.

3.1.3 Competent Authority Details

The details of the competent authorities are provided in Table 3-3.

Table 3-3: Competent Authority details

Department	Contact Person	Contact Details	
Gauteng Department of Agriculture and Rural Development) (GDARD)	Mr Khaka Khaka	Tel	(+27) 0112403392 / 072 880 0746
		Email	Khaka.Khaka@gauteng.gov.za
		Address	56 Eloff Street, Umnotho House, JOHANNESBURG 2000

4 Project Location

The Sterkfontein warehouse to be used for the storage of dangerous goods by UPL is located within an industrial complex in the Olifantsfontein area, within the City of Ekurhuleni Metropolitan Municipality of the Gauteng Province. Table 4-1 provides the details of the affected property at which the proposed development with be taking place. The Locality Map is provided in Figure 4-1 and Figure 4-2 shows the municipal boundary.

Table 4-1: Proposed development property details

Province	Gauteng
Municipality	City of Ekurhuleni Metropolitan Municipality
Ward Number (s)	89
Farm Name and Number	Sterkfontein 140 JR
21-digit SG Code	T0JR06320000014000000
Address	Industrial Estate, 21, 5 Purlin St N, Olifantsfontein, 1666
Centre Coordinates	25°57'52.32"S 28°15'6.43"E

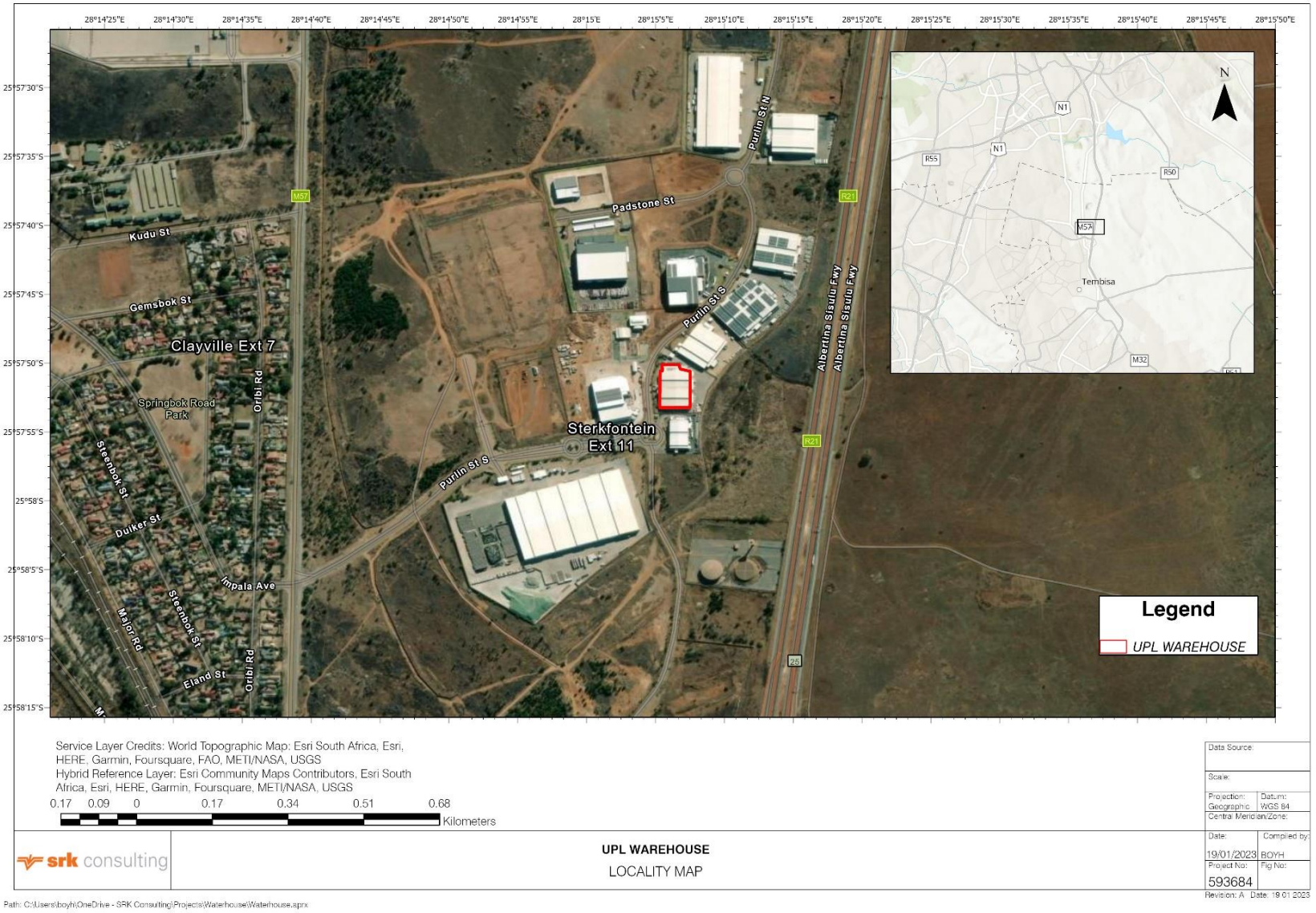


Figure 4-1: Proposed development Locality Map

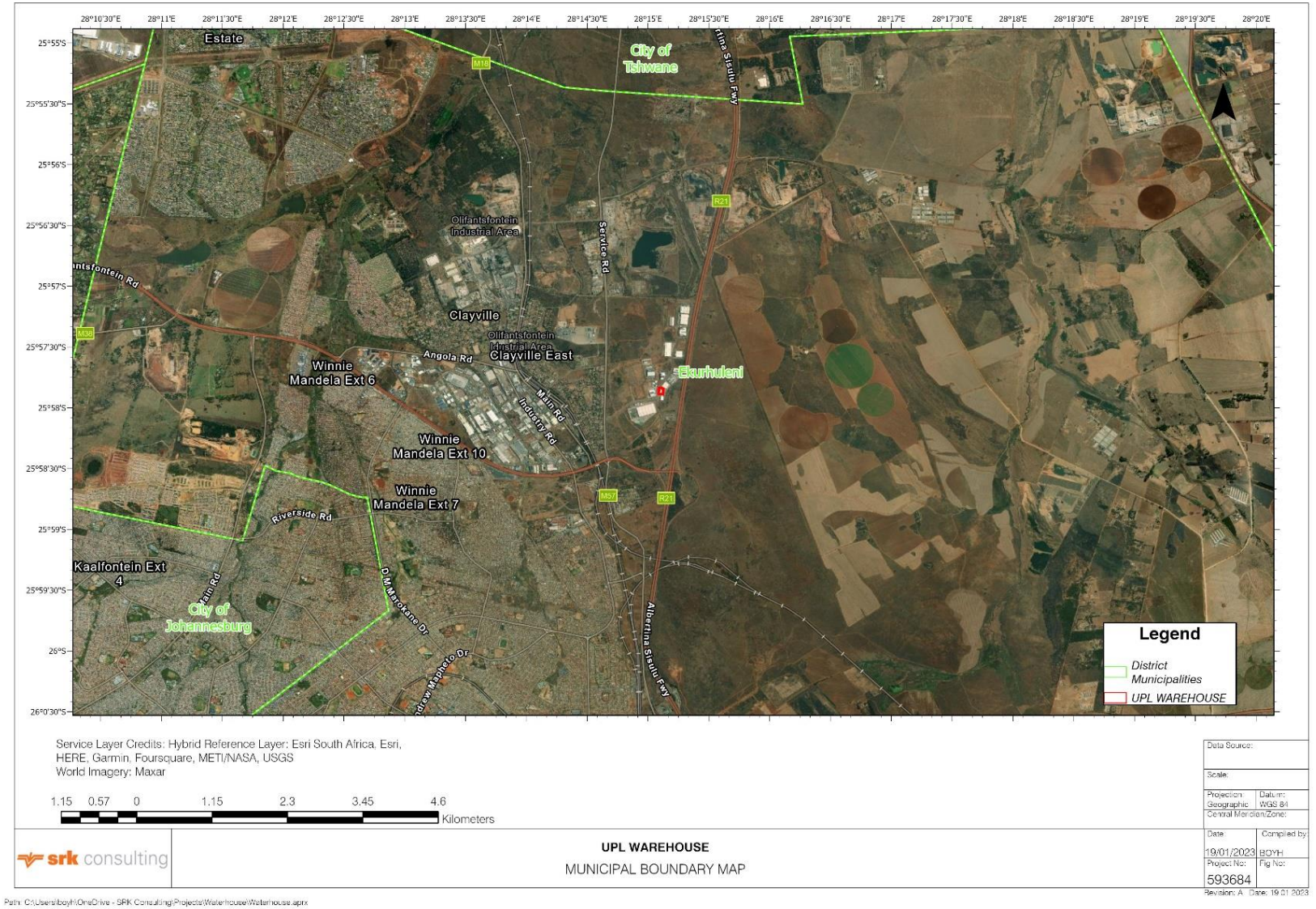


Figure 4-2: Municipal Boundary Map

5 Project Description

UPL is proposing storage of dangerous goods within an existing warehouse in the Olifantsfontein (Sterkfontein) area, Gauteng Province. The storage of a SANS classified dangerous good (total capacity currently estimated at 1000 m^3) and the storage of a non-classified dangerous good (total capacity of 400 m^3).

Table 5-1 shows the master list of materials to be stored at the existing Sterkfontein warehouse (both classified and unclassified materials). Flammable material will not be stored at the facility.

Table 5-1: Master list of materials to be stored within the Sterkfontein warehouse

Material Group Description								
2,4 D 48% SL	ACETAMIPRID 20% SP	TRIADIMENOL 150 SC	MNO822EC	CME107MRB643WP	GA2504NUT50AMN542SL	Packing Materials	CS62.5SL	DCN784EC
ACEPHATE 75 SP	ALPHA CYPER 10% EC	LINER	HEXAZINONE 75% WG	CME500WP	GA2326NUT218SL	LABEL	PENDIMETHALIN 50%EC	ATC750EC
ACETOCHLOR 90 EC	ALP FG 57% TABLETS	NUT120.05SL	ABK25CB	FENAMIPHOS 40% EC	GA2406NUT152SL	LEAFLET	PARAQUAT 20 SL	GLYPHOSATE 48 SL
PIR300CS	AMETRINA 500 SC	IMIDACLOPRID 35 SC	NUT50WP	FENVALERATE 20 EC	GA2304NUT162SL	LAMBDA CYHALO 5% EC	DQT80PQD120SL	CDM120EC
OTHERS	IMAZETHAPYR 10% SL	IMD25OML100GR	DIURON 80 WG	GYP538SL	ATC180ATZ160TBL160S*	CFB	PENDIMETHALIN TECH	CRF360SC
NUT50SL	AMM980SP	CHLOROTHALONIL 72 S*	DIURON468+HEXAZ132W*	BIFENAZATE 24% SC	FCF100EC	GLUFOSINATE 280 SL	MANCOZEB 42% SC	NUT130WP
COMMODITIES	TIRAM20%+CARBOXIN20*	DZT980WG	MSMA 720 SL	3RD PARTY PRODUCTS	IZR100SL	TBU200GR	MNO363SO	2PH900SL
CHEMICAL FERTILIZER	DIQUAT 200 SL	S-METOLACHLOR 91.5E*	MCL960EC	OMT800SL	NICOSULFURON 75 WG	TBU500SC	AMN2NUT103SL	PMH137.1Y20408EW
NUT606SC	ATZ291SLT125SC	S-METOLACHLOR 96 EC	DNZ850WG	NUT127SL	RMS250WG	TCR360SL	PENDI 33% EC	SIMAZINA 50% SC
NUT283WS	FMM800WG	CBZ100CLT550SC	HDPE BOTTLE	NUT288SL	Triasulfuron 75 WDG	MANCOZEB 75% DG	MOB3.9PHS137ZIN434D*	CRN375FDX250SC
NUT445WS	AZOXY 25 SC	PICLORAM 240 SL	APH300SL	COMBO PACKS	FUL641.71NUT1.92SL	MANCOZEB 80% WP	CPA80DFB96SC	EPOXI125+CBZM125 SC
NUT430WP	ACT16IDX30EC	ATC700DHL93EC	Bromacil 80 Wp	COMBO FOLLOWUP SC	AMM500SL	MNB435SC	CTP50SC	NUT205WP
ACT25EC	CPD90TCR270SL	DRN800SC	BMC50DRN50GR	IMAZAPYR 25 SL	PTP560SL	TBU50GR	Propiconazole 25 EC	BRJ(2e12)LQ
ABAMECTIN 1.8% EC	ATZ290TBL290SC	EMAMECTIN BENZ 5 SG	DCN684SL	FXA167FTF218SC	ZNP40RB	METOMILO 90% SP	PHC722SL	COMBO PACKS-NPP BIO
ACETAMIPRID 20SL	ATRAZINE 50 SC	BENTAZONE 48% SL	ATZ262.5MCL175TBL26*	Fosetyl-Al 800 WP	LCY100CS	AMN4NUT288SL	PTFTC	SPIRODICLOFEN 24% S*
NUT188SL	ATRAZINE 90 WG%	BENOMILO 50% WP	TRICLOPYR 48 EC	FSZ100EW	FXP320TRC160EC	ASB(1e6)LQ	PSF(1e10)WP	SPIROXAMINE 49.8 EC
BETACYPER 10% EC	METRIBUZIN 48SC	FLUROXYPYR 20% EC	ATC840DHL111EC	MESOTRIONE 48% SC	NUT150SL	LBC(1.6e7)RSP(2.6e5*	PYRIMETHANIL 40SC	PTR960EC
ALC384EC	AZS60CLT600SC	FCS3.78NUT81.627SL	BMC250TBU250SC	PYRIPROXYFEN 10 EC	NUT128SL	TPB100TB	DID126SL	PTR902.4EC
APP230ANS57.5CIA115*	AZOXY20+DIFECO12.5S*	GYP500WG	ACB280MST288WG	GLYPHOSATE 36% SL	NUT139SL	NUT60SL	RSA224ME	IMIGO 70WS
DRN300PQD100SC	CHLOROTHALONIL 50 S*	PPG720EC	CYROMAZINE 75 WP	GA2370NUT143.9SL	NUT68SL	NUT45SL	TDF250SC	MSM120TBM600WP
RIGID MISC	CHLORPYRIPHOS 48 EC	NUT180WP	DIFENOCONAZOLE 25 E*	GA2257NUT181.2SL	NUT114SL	NUT40SL	MCPA (POT SALT) 40S*	TZN1DP
CARTON	FIPRONIL 20% SC	CPR315SL	DCV1000EC	NUT171WP	NUT110SL	NUT24SL	OXYFLUORFEN 24% EC	AMN3.6NUT202.447AL
CARBOFURON 10 G	AMN2NUT189SL	MCZ630MTL120WP	IRPODION 500 SC	NUT108SL	NUT357SL	NUT560SL	HEXACONAZOLE 5 SC	TRIFLURALIN 48 EC
CARTAP 50 SP	METAZACHLOR 500 SC	MCZ600MTL100WP	2DA240DCB80SL	FOL2.75SL	NUT130SL	NUT240SL	3RDPARTY RETAIL PRDS	NUT173SL
Adjuv & Form. Agents	METSULFURON ME 60 W*	NUT20.9SP	DZN250EC	NUT400SC	NUT140SL	NUT55SL	BMC55DRN70GR	TRINEXAPAC 250 EC

Material Group Description								
DELTAMETHRIN 2.5ECW*	CMZ480EC	AMN3.1NUT275SL	DIMETHOATE 40% EC	NUT350SC	MICRONUTRIENT	MDP585SL	MLP246SL	TZN(1e12)GR
DIURON 80 WP	CBZ125FSZ250SC	2DH500EC	DFB480SC	NUT360SC	NUT700WP	Metribuzin Tech	CAPTAN 500 SC	TZN(5e7)LQ
HDPE CARBOUY	BMC80TBL120GR	AGR(5e11)DS	DIFLUBENZURON 25WP	NUT702SC	NUT700SL	SULPHUR 80 % WDG	PMT75EC	AMN1.7NUT244.218SL
HMHDPE DRUM	ETEFON 48% SL	MZ 30%+ CU 12% DG	COMBO DINAMIC H100*	OML310SL	NUT471SL	DMM500SC	OXAMYL 24 SL	GYP125SMZ175TBL175S*
METAL DRUM	THO500SP	CU(TRIBASIC)40WDG N*	ACB700WG	QPT40EC	IXP225EC	PCC250SC	FLUAZIFOP-P-BUTIL	FLP480VLF60WG
MISC	CLT600FXA60SC	CFM50EW	COMBO DINAZONE	NUT104SL	LFN50EC	CPO700SC	AMT250ATZ250SC	MZB60%+VALIFEN6% DG
CMZ400HZN100WP	FXA200TBZ277SC	CYPER 20% EC	FXA480SC	UPDT880GR	GYP510SL	CIPC 50 HN	BXP225EC	CLT650VLF100WG
EPC720EC	BAP(1e10)BSH(1e11)F*	HAS750WP	PLM50TCR50GL	CLOPYRALID 200 SL	GYP700SG	2DM180DCB120MCA157.*	2,4-D AMINE 72 SL	DFC20MTX200TMT200WS
SLT TC	THIAMETHOXAM 25 WG	TEBUCONAZOLE 25% EW	BTL180FML125EC	TERBUFOS TECH	ATZ300MCL300SC	Bromacil Tech		
TRICHLOPYR BUTOXY E*	CLODINAFOP 24 EC	TRM500WP	PTF960EC	TBL500SC	TERBUFOS 15 GR	NUT TC		
GYP180TBL350SC	OXAMIL TECH	CLTTC	HZNTC	ETPTC	GYP216IZR300WG	CAPTAN TECH		
CO-FORMULANTS	PROPANIL TECH	CLOMAZONE TECH 98%	IMIDACLOPRID TECH	FRSTC	2.4-ACID TECH-98%	CARBENDAZIM TECH		
NUT80.2WP	QUIZALAFOP-BUTYL	CLOPYRALID TECH	MESOTRIONE-97% TECH	FXATC	ACETOCLORO TECH	CRF98TC		
IDX150EC	MCL840EC	DICAMBA TECH	METAZACHLOR TECH	FXP TC	ATRAZIN TECH			
DDN400SC	Trichlorfon 950 SP	DIURON TECH	METOLACHLOR TECH	GLYPHOSATE TECH	Pheromone Trap PBW			

The development will not include any construction activities since the warehouse structure is already existing.

5.1 Water

Municipal water services are already present on site.

5.2 Electricity

Electricity requirements are already obtained from the municipality.

5.3 Waste

Waste bins are used for housekeeping and will be collected by the municipality.

5.4 Emergency Response Facilities

The project will have emergency response contact details on display e.g., firefighting, first aid, and clinic services

5.5 Site Access, Access Control, Security, and Fencing

The site is accessed through a main gate which has security on guard throughout (24 hours daily). In addition, the warehouse has its own security fencing and security control area.

5.6 Roads

Existing access roads will be used for access to and from the site.

5.7 Sanitation

Existing ablution facilities connected to the municipal sewer system will be used.

6 Alternatives Considered

A number of alternatives have been considered for the proposed project and are described in the following sections.

6.1 Site Alternatives

6.1.1 Alternative 1 (Preferred site)

The preferred site (Sterkfontein) has an existing warehouse that is already kitted with the required infrastructure. The warehouse provides adequate storage capacity for the UPL goods and is located in an area ideal for the proposed activity, an industrial complex for this type of activity. No additional services such as water, sewer, stormwater management etc will be required as existing services will be utilised.

The negative environmental impacts associated with the proposed project will be limited since the project will make use of an existing warehouse and thus no construction will be required.

6.1.2 Alternative 2

Alternative 2 entails storage of dangerous goods at the current place in Pomona. It must however be noted that the Pomona storage area is not an ideal option since UPL is currently renting the space and the lease agreement between UPL and the Pomona warehouse owner is expiring, and the owner is opting to sell the warehouse. In addition, the warehouse that UPL has been renting in Pomona is not zoned correctly and UPL has over the years requested the warehouse owner to sort out the zoning issues with no success.

6.2 Technology Alternatives

No technology alternatives were assessed as the proposed project entails the storage of dangerous goods.

6.3 No-Go Option

The no-go alternative would entail not implementing the proposed project of the storage of dangerous good in the existing Sterkfontein warehouse. The proposed project is to be housed in an existing infrastructure, thus no construction activities.

UPL is involved in the manufacture, supply and marketing of agrochemicals, industrial chemicals, chemical intermediates, and specialty chemicals worldwide. The agro-business is the company's primary source of revenue and includes the manufacture and marketing of conventional agrochemical products, seeds, and other agricultural-related products. The non-agro segment includes manufacturing and marketing industrial chemicals and other non-agricultural products such as fungicides, herbicides, insecticides, plant growth regulators, rodenticides, industrial & specialty chemicals, and nutrifeeds. Not implementing the project will mean that UPL OpenAg will not have the requires storage space for their materials that are required by other businesses and will impact on UPL’s ability to supply the required materials and chemicals to businesses that require them. Alternatively, this will force UPL to find an alternative site for the storage of their material, meaning that the City of Ekurhuleni will miss out on the benefits attached to having the warehouse in its area of jurisdiction.

One of the Ekurhuleni IDP (2050)’s objective is to provide an economic environment promoting the creation of an industrial economy that is regionally diversified, will be restricted. The storage of material in the warehouse will result in promotion of other businesses such as transport, security and/or catering

services in the area. This will impact the job creation, economic growth, income distribution to low-income households. In addition, not implementing the proposed project may result in UPL requiring to reduce its staff complement, resulting in negative socio-economic impacts to the current UPL staff.

Although not fully assessed at this time, the additional potential negative impacts on the environment associated with project would not exist should the project not be implemented. The environmental, social, and economic impacts will be assessed in detail during the impact assessment phase to identify and address all negative impacts, where possible.

7 Legal and Policy Framework

7.1 South African Environmental Legislation, Policies and Guidelines

Table 7-1 provides a summary of the applicable legislation, policies, and guidelines identified as relevant to the proposed project. In addition, a description of how the proposed activity complies with and responds to the legislation and policy context, is provided. This list is not exhaustive but rather represents an indication of the most applicable pieces of environmental legislation relevant to the project.

Table 7-1: Policy and legislative context of proposed project

Legislation	Description and Relevance	Responsible Authority
Constitution of the Republic of South Africa, (Act No. 108 of 1996)	In terms of Section 24, of the Constitution of the Republic of South Africa (108 of 1996), everyone has the right to an environment that is not harmful to their health or well-being and to have the environment protected, for the benefit of present and future generations, through reasonable legislation and other measures that prevent pollution and ecological degradation, promote conservation and secure ecologically sustainable development and use of natural resources while prompting justifiable economic and social development. The needs of the environment, as well as affected parties, should thus be integrated into overall project management in order to fulfil the requirements of Section 24 of the Constitution. Chapter 2 encapsulates the Bill of Rights and Section 24 relates to Environmental Rights. *The proposed activities shall be implemented in such a manner that significant environmental impacts are avoided, where significant impacts cannot all together be avoided, be minimised and mitigated (as per the Environmental Management Programme that will be compiled to guide the process) in order to protect the environmental rights of South Africans.*	Government of South Africa
Promotion of Access to Information Act, 2000 (Act No. 2 of 2000) (PAIA)	The Promotion of Access to Information Act (Act No. 2 of 2000) (PAIA) recognises that everyone has a right of access to any information held by the state and by another person when that information is required to exercise or protect any right. The purpose of the Act is to promote transparency and accountability in public and private bodies and to promote a society in which people have access to information that enables them to exercise and protect their right. *The EIA/EMPr process will be undertaken in terms of the NEMA, where the associated stakeholder consultation process is aligned with the PAIA in the sense that all I&APs will be given an opportunity to register as an I&AP prior to the initiation of the project and all registered stakeholders were in turn provided a fair opportunity to review and comment on any reports submitted to the competent authorities for decision making.*	Government of South Africa
National Environmental Management Act, 1998 (Act No. 107 of 1998) as amended (NEMA)	The NEMA provides the overarching legislation for environmental governance in South Africa, giving effect to Section 24 of the Constitution of the Republic of South Africa. NEMA sets out the fundamental principles of Integrated Environmental Management that must be adhered to in order to ensure sustainable development. These principles should apply to environmental decision making. Of particular importance is NEMA's ruling that the interpretation of any law concerning the protection and management of the environment must be guided by the principles of NEMA. The core nature of the NEMA principles is the principle on sustainable development. This principle strives towards promoting development that is simultaneously meeting the needs of the present generations without compromising the needs of future generations to come. Section 24 relates to Environmental Authorisations (control of activities which may have a detrimental effect on the environment), and Section 28 relates to the duty of care and remediation of environmental damage.	GDARD

<table>
<tr><th>Legislation</th><th>Description and Relevance</th><th>Responsible Authority</th></tr>
<tr><td></td><td>Environmental management principles will be incorporated into the EIA and EMPr, which the applicant will be required to comply with to ensure that negative impacts on the environment are avoided or kept to a minimum and that positive impacts are enhanced. This project triggers Activity 4 of GNR 984. The table below provides a summary of the NEMA listed activities triggered by the proposed project.
<table>
<tr><th>Activity Number:</th><th>Relevant Activity (ies) as set out in Listing Notice 1, 2 & 3 (GN R327, GNR325 & GNR324)</th><th>Description of Activity as per the project description</th></tr>
<tr><td>Activity 4</td><td>Listing Notice 2: The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.</td><td>The proposed development includes the storage of a classified dangerous good (total capacity currently estimated at 1000 m^3) and for the storage of a non-classified dangerous good (total capacity of 400 m^3),</td></tr>
</table></td><td></td></tr>
<tr><td>NEMA EIA Regulations 2014 (Government Notice (GN) 324, 325 and 327), as amended</td><td>The EIA Regulations (GNR 982) were promulgated in terms of Sections 24 of the NEMA, to manage the process, methodologies, and requirements for the undertaking of an EIA. The GNR 982 stipulates that the applicant for activities listed under GNR 983, 984, or 985, as amended in 2021 must appoint an independent EAP to manage the EIA process. Listed Activities are activities identified in terms of Section 24 of the NEMA which are likely to have a detrimental impact on the environment, and which may not commence without an EA from the Competent Authority (CA). EA required for Listed Activities is subject to the completion of either a Basic Assessment (BA) process or full Scoping and Environmental Impact Assessment (S&EIA) with applicable timeframes associated with each process. The EA must be obtained prior to the commencement of those listed activities.

The project triggers activities listed in Listing Notices 2 (GNR 984), as amended in 2017 and 2021 and requires a full EIA process (scoping and impact assessment).</td><td></td></tr>
<tr><td>Department of Environmental Affairs (DEA) Integrated Environmental Management Guideline Series, Guideline 5: Assessment of the EIA Regulations, 2012 (Government Gazette 805)</td><td>Environmental impacts are not anticipated to be major since the proposed project does not include a construction phase Any impact associated with the proposed project will be assessed during the impact assessment phase of the process.</td><td></td></tr>
</table>

Legislation	Description and Relevance	Responsible Authority
Integrated Environmental Assessment Guideline Series 11, published by the DEA in 2004	*An Environmental Assessment is required for the proposed project as activities are triggered under GNR 984.*	
Review in Environmental Impact Assessment, Integrated Environmental Management, Information Series 13, Department of Environmental Affairs and Tourism (DEAT), Pretoria.		
DEA Integrated Environmental Management Guideline Series, Guideline 7: Public Participation in the Environmental Impact Assessment Process, 2012 (Government Gazette 807)	*Public participation is a requirement of the EIA Process and will be conducted for the proposed project as stipulated in Chapter 6 of the NEMA and will take into account various public participation guidelines as stipulated in Section 9.*	
National Water Act, 1998 (Act No. 36 of 1998) (NWA)	The NWA is the primary regulatory legislation controlling and managing the use of water resources as well as the pollution thereof. This act provides for fundamental reformation of legislation relating to water resource use. The preamble to the NWA recognises that the ultimate aim of water resource management is to achieve sustainable use of water for the benefit of all users and that the protection of the quality of water resources is necessary to ensure sustainability of the nation's water resources in the interests of all water users. The purpose of the Act is stated in Section 2 and enforced by the Department of Water and Sanitation (DWS). *The proposed project does not trigger any Section 21 water uses; therefore it does not require a Water Use Licence (WUL) from the DWS.*	N/A
National Environmental Management Waste Act (Act No. 59 of 2008) (NEM: WA)	The objectives of the National Environmental Management: Waste Act (NEM:WA) involve the protection of health, wellbeing, and the environment by providing reasonable measures for the minimization of natural resource consumption, avoiding, and minimizing the generation of waste, reducing, recycling, and recovering waste, and treating and safely disposing of waste as a last resort. The Act involves the management of waste according to the waste management hierarchy. In terms of the NEM:WA, all waste management activities must be licenced. A distinction is made between Category A waste management activities, which require a basic assessment, Category B activities, which require a full EIA,	N/A

Legislation	Description and Relevance	Responsible Authority
	and Category C waste management activities which do not require a waste management licence but compliance with relevant requirements or standards. *The project does not trigger any activities listed under NEMWA, however, the principles of the NEM: WA will be incorporated into the project EMPr. .*	
National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) (NEM: AQA) as well as Listed Activities and Associated Minimum Emission Standards identified in terms of Section 21 of NEM:AQA	The NEM:AQA was implemented on 24 February 2005 and reforms the law regulating air quality in order to protect the environment. On 22 November 2013 the list of activities which result in atmospheric emissions which have or may have a significant detrimental effect on the environment, including health, social conditions, economic conditions, ecological conditions, or cultural heritage was published under GNR 893 in Governmental Gazette 37054, in terms of section 21(1)(b) of the NEM:AQA thereby repealing the previous list of activities which were promulgated on 31 March 2010. Section 32 relates to dust control, Section 34 relates to noise control, and Section 35 relates to the control of offensive odours. *The proposed development does not trigger any activities listed in NEM: AQA, however, the principles of the NEM: AQA, focusing on minimisation of pollutant emissions will also be taken cognisance of in the development of the EMPr.*	N/A
Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	For the generation of noise during construction and operations. *UPL will need to ensure that employees, contractors, sub-contractors and visiting personnel, adhere to this Act and subsequent amendment regulations on site. Any occupational health and safety aspects and issues will be addressed in the EIA and will be taken cognisance of in the EMPr development.*	GDARD
Major Hazard Installation (MHI) Regulations	The Occupational Health and Safety Act defines a Major Hazard Installation as (a) where more than the prescribed quantity of a substance is kept or maybe kept (The listed substances are provided in General Machinery Regulations Schedule A) and (b) where the substance is processed, produced, used, handled, or stored which has the potential to cause a major incident. *An assessment will be undertaken to determine whether the warehouse can be classified as a Major Hazard Installation (MHI). An MHI Risk Assessment will be undertaken as part of the impact assessment process. Should the warehouse be deemed an MHI, UPL will undertake the required studies and registration process.*	City of Ekurhuleni Metropolitan Municipality
National Environmental Management: Biodiversity Act,	The National Environmental Management: Biodiversity Act (Act No. 10 of 2004) (NEM:BA) provides for the management and conservation of South Africa's biodiversity within the framework of NEMA, as well as the protection of species and ecosystems that warrant national protection and the sustainable use of indigenous biological resources. The Act provides	GDARD

Legislation	Description and Relevance	Responsible Authority
2004 (Act No. 10 of 2004) (NEM:BA)	for listing of threatened or protected ecosystems, in one of four categories: critically endangered, endangered, vulnerable, or protected. In line with the Convention on Biological Diversity, the NEM:BA aims to legally provide for biodiversity conservation, sustainable use and equitable access and benefit sharing. The NEM:BA established the South African National Biodiversity Institute (SANBI). The NEM:BA creates a basic legal framework for the formation of a national biodiversity strategy and action plan and the identification of biodiversity hotspots and bioregions, which will then be given legal recognition. It imposes obligations on landowners (state or private) governing alien invasive species as well as regulates the introduction of genetically modified organisms. Furthermore, the NEM:BA serves to regulate bioprospecting, making provision for communities to share the profits of any exploitation of natural materials involving indigenous knowledge. *The proposed project does not require clearance of vegetation and will not impact any biodiversity.*	
National Heritage Resources Act, 1999(Act No 25 of 1999) (NHRA)	Heritage Permit for structures 60 years or older. Any person who intends to undertake any of these developments, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature, and extent of the Project. If the Heritage Impact Assessment (HIA) indicates that the development will have an impact on a heritage resource listed within sections 38 of the Act must be followed. The enforcing authority for this act is the South African National Heritage Resources Agency (SAHRA). In terms of Section 34, 35, 36, 37, and 38 of the NHRA, initiating a development must at the very earliest stages of development notify the responsible heritage resources authority and furnish it with details regarding the location, nature, and extent of the project. In addition, Section 23(2)(b) of the NEMA requires that cultural heritage resources be assessed as part of the impact assessment process and thus in turn is subject to the EIA Regulations. *The DFFE screening tool results shows that the site is of low sensitivity in terms of heritage and cultural importance, yet SAHRIS database shows that the site is of very high sensitivity for palaeontological importance. The proposed project entails storage of dangerous goods in an already existing warehouse, in an already existing industrial park. It is not expected that there are any heritage resources that will be affected by the proposed project.*	South African Heritage Resource Agency (SAHRA)
Restitution of Land Rights Act, 1994 (Act No. 22 of 1994), as amended in 2014.	This Act deals specifically with land claims. *There are no land claims associated with the affected property.*	Department of Agriculture, Land Reform and Rural Development (DALRRD)

7.2 Additional applicable legislations and Guidelines

- National Fire Protection Association (NFPA) standards
- International Standards Organization (ISO) 9000/2000 Quality Systems
- South African standards, codes, and regulations, which include:
- South African National Standard (SANS) 10089 (pertaining to the building industry)
- Protected species – provincial ordinances
- Ekurhuleni Metropolitan Municipality, consolidated by-laws which are supplementary to the National Building regulations and building Standards Act, 1977 (Act No. 103 of 1977)
- Hazardous Substances Act, 1973 (Act No. 15 of 1973)

8 Stakeholder Engagement Process

The public participation and stakeholder engagement process forms an important part of the scoping phase of the project. The public participation and stakeholder engagement process is primarily aimed at affording Interested and Affected (I&APs) the opportunity to gain an understanding of the proposed project. In addition, the purpose of consultation with the landowners, key stakeholders, and I&APs is to provide them with the necessary information about the proposed project so that they can make informed decisions as to whether the project will affect them and provide the EIA team with local knowledge of the area and raise concerns relating to the biophysical, socio-economic, and cultural impacts that may arise.

The stakeholder engagement process was conducted in terms of NEMA, which provides clear guidelines for stakeholder engagement during an EIA as summarised in Table 8-1. Figure 8-1 provides a diagram of an Integrated Stakeholder Engagement Process for the proposed project.

Table 8-1: NEMA Stakeholder Guidelines

NEMA Section	Applicability to Stakeholder Engagement
Chapter 1	Outlines the principles of environmental management, several pertaining to public consultation (e.g., Chapter 1, subsections (2), (3), (4) (f), (g), (h), (k), (q), and (r).
Chapter 6	Regulations 39 – 44 of the amended EIA Regulations GNR 326, promulgated on 8 December 2014, amended on 7 April 2017 and 11 June 2021, specify the minimum requirements for stakeholder engagement in an EIA process conducted under the NEMA.
Section 24J of the NEMA	In 2017, the Minister of Environmental Affairs published, Section 24J of the NEMA in terms of**,** Public Participation Guidelines which guide the Public Participation Process in order to give effect to Section (2)(4)(f), (o), and 24 (1A)(C) of the NEMA.

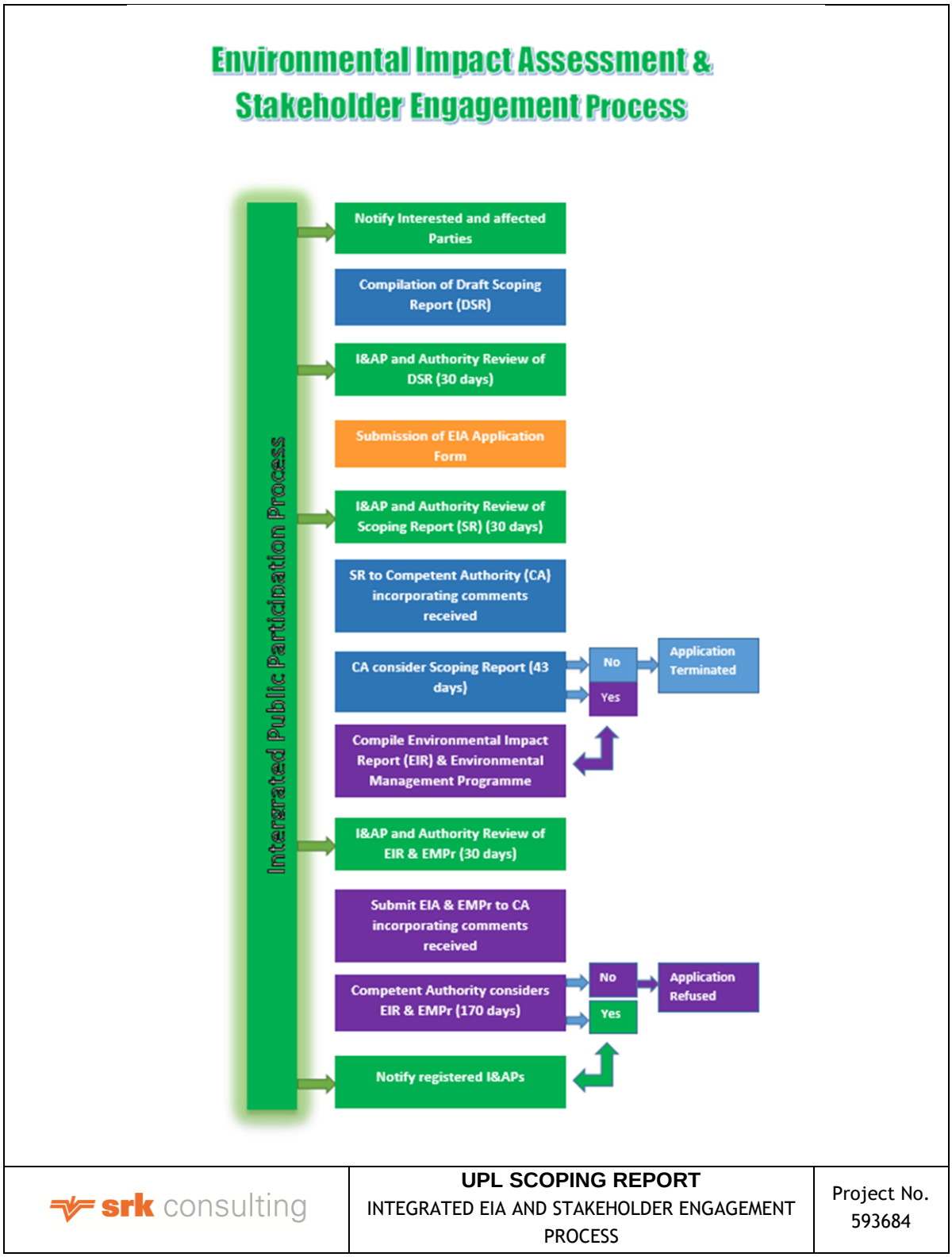


Figure 8-1: Integrated EIA and stakeholder engagement process

All the above guidelines have been incorporated into this stakeholder engagement process. GDARD was identified as the competent authority for the EA application. Identified commenting authorities on this application include:

- City of Ekurhuleni Metropolitan Municipality
- DWS – Gauteng Regional Office;
- SAHRA – Gauteng Provincial Department.

8.1 Authority Pre-Application Consultation

A pre-application consultation meeting was requested from GDARD on 31 January 2023 to discuss the proposed project, required authorisations and the EIA process to be followed, however at the time of submission of this report, the meeting date had not yet been set.

8.2 Stakeholder Identification and Database Development

The database for I&APs was developed based on an existing database. This together with the use of GIS and the surveyor general website was used to verify the I&APs for the current EIA process. The I&AP database will be updated as an ongoing process throughout the EIA process.

A copy of the database is provided in Appendix D 2.

8.3 Project Announcement

Stakeholders were provided with the opportunity to participate and register as I&APs during the announcement phase of the project. SRK made use of various methods to inform stakeholder of UPL's intention to undertake the required and environmental processes and EA application including newspaper advertisements, on-site notices, and notification letters.

8.3.1 Distribution of Notification Letters and Background Information Document

Notification letters were sent to identified I&APs on 27 January 2023, informing them of the proposed project. A copy of the notification letter and BID is attached as Appendix D 3.

The notification letter provided further information on the project, the environmental processes required for the project and a summary of the stakeholder engagement process to be followed.

8.3.2 Site Notice Placements

Site notices of A2 size were placed in various areas around the development site on 27 January 2023. The site notices were written in English (6). Table 8-2 provides the coordinates of each site notice. Photos of the site notices are provided in

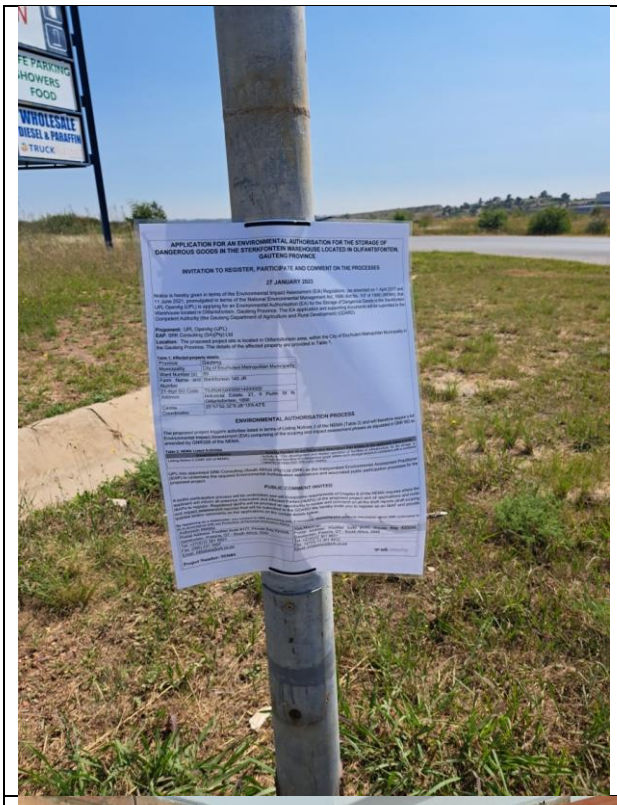
Site Notice	**Motivation**	**Location**	
		Latitude	**Longitude**
Site Notice 1	At UPL Warehouse entrance at security	25°57'49.50"S	28°15'6.06"E
Site Notice 2	At entrance to industrial park	25°58'4.75"S	28°14'39.38"E
Site Notice 3	Next to road M57 for road users	25°57'27.20"S	28°14'38.51"E
Site Notice 4	Olifantsfontein Library notice board	25°57'22.17"S	28°13'42.78"E
Site Notice 5	Olifantsfontein Community Centre/Clinic notice board	25°57'24.72"S	28°13'44.14"E
Site Notice 6	At road conjunction leading to farmstead	25°56'41.48"S	28°15'32.27"E

Table 8-3. A copy of the site notices is attached in Appendix D 4.

Table 8-2: Site notice placement

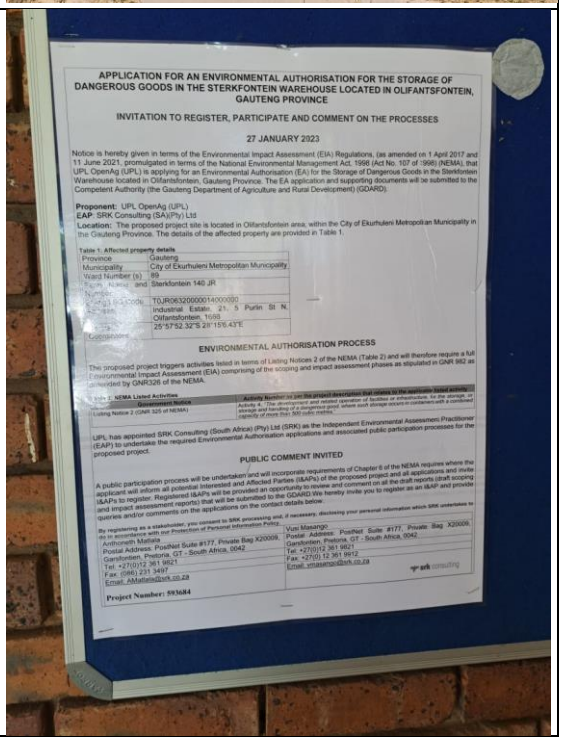
Site Notice	Motivation	Location	
		Latitude	Longitude
Site Notice 1	At UPL Warehouse entrance at security	25°57'49.50"S	28°15'6.06"E
Site Notice 2	At entrance to industrial park	25°58'4.75"S	28°14'39.38"E
Site Notice 3	Next to road M57 for road users	25°57'27.20"S	28°14'38.51"E
Site Notice 4	Olifantsfontein Library notice board	25°57'22.17"S	28°13'42.78"E
Site Notice 5	Olifantsfontein Community Centre/Clinic notice board	25°57'24.72"S	28°13'44.14"E
Site Notice 6	At road conjunction leading to farmstead	25°56'41.48"S	28°15'32.27"E

Table 8-3: Photos of site notices


APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE
INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES
27 JANUARY 2023
ENVIRONMENTAL AUTHORISATION PROCESS
PUBLIC COMMENT INVITED


CLAYVILLE TRUCKERS JUNCTION
STONE CEMENT
SAFE PARKING SHOWERS FOOD
WHOLESALE DIESEL & PARAFFIN
TRUCK


INDEMNITY
Ekurhuleni
METROPOLITAN MUNICIPALITY


APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE
INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES
27 JANUARY 2023
Proponent: UPL OpenAg (UPL)
EAP: SRK Consulting (SA)(Pty) Ltd
Location: The proposed project site is located in Olifantsfontein area, within the City of Ekurhuleni Metropolitan Municipality in the Gauteng Province. The details of the affected property are provided in Table 1.
Table 1: Affected property details
Province Gauteng
Municipality City of Ekurhuleni Metropolitan Municipality
Ward Number (s) 89
Farm Name and Number Sterkfontein 140 JR
21 Digit SG Code T0JR0632000001400000
Physical Address Industrial Estate, 21, 5 Purlin St N, Olifantsfontein, 1666
Coordinates 25°57'52.32"S 28°15'6.43"E
ENVIRONMENTAL AUTHORISATION PROCESS
Table 2: NEMA Listed Activities
Government Notice
Listing Notice 2 (GNR 325 of NEMA)
PUBLIC COMMENT INVITED
Project Number: 593684

8.3.3 Newspaper Advertisements

A newspaper advert was placed in "The Olifants News" newspaper on the 27th of January 2023. The advertisements notified the public of the application and the opportunity to participate in the EIA process. A copy of the advertisements can be found in Appendix D 5.

8.4 Public Review of the Draft Scoping Report

The Scoping Report was compiled in terms of GNR 982, as amended. The Scoping Report will be made available for a 30-day commenting period from 10 March 2023 to 09 April 2023. The availability of the Scoping Report was announced by means of letters and emails to registered I&APs.

Copies of the Draft Scoping Report will be placed at the following venues provided in Table 8-4.

Table 8-4: List of places the Scoping Report will be places for public review

Public Place	Locality	Telephone
Olifantsfontein Library	2 Mason Ave, Clayville, Olifantsfontein, 1666	(+27) 011 999 4878
SRK Website	www.srk.co.za	(012) 361 9821

The Draft Scoping Report will also be made available to the competent and commenting authorities during the stakeholder engagement process.

8.5 Key Comments Received

The I&APs were notified of the proposed project and application process and invited to register during the pre-application public participation phase. No Comments have been received to date from the I&APs.

8.6 Comments and Response Report (CRR)

All issues and concerns raised by I&APs during the scoping phase will be recorded and responded to in the Comments and Responses Report (CRR) which forms part of the Final Scoping Report. A copy of the CRR is included as Appendix D 6.

The CRR will be updated with any additional comments that the I&APs will raise throughout the process and the final CRR will be submitted to GDARD with the final EIR and EMPr.

9 Need and Desirability of the Proposed Project

9.1 Socio-economic Impact of the proposed project

UPL is currently storing its goods in Pomona, where UPL has been leasing warehouse space. However, the lease agreement between UPL and the Pomona warehouse owner is expiring, and the owner is opting to sell the warehouse. In addition, the warehouse that UPL has been renting in Pomona is not zoned correctly and UPL has over the years requested the warehouse owner to sort out the zoning issues with no success.

UPL is involved in the manufacture, supply and marketing of agrochemicals, industrial chemicals, chemical intermediates, and specialty chemicals worldwide. The agro-business is the company's primary source of revenue and includes the manufacture and marketing of conventional agrochemical products, seeds, and other agricultural-related products. The non-agro segment includes manufacturing and marketing industrial chemicals and other non-agricultural products such as fungicides, herbicides, insecticides, plant growth regulators, rodenticides, industrial & specialty chemicals, and nutrifeeds. Not implementing the project will mean that UPL OpenAg will not have the requires storage space for their materials that are required by other businesses and will impact on UPL's ability to supply the required materials and chemicals to businesses that require them.

The proposed project will enable UPL to continue with their operations and preserve its staff compliment. Should the project fail, UPL may be forced to reduce its staff numbers.

9.2 Environmental responsibility

The environmental right is contained in the Constitution of the Republic of South Africa, Act 108 of 1996 (hereafter referred to as "The Constitution") Section 24 of the Constitution enshrines environmental rights in South Africa, which are interpreted to have a two-fold purpose. The first part guarantees a healthy environment to every person. The second part mandates the State to ensure compliance with the first part. The State is prohibited from infringing on the right to environmental protection and is further required to provide protection against any harmful conduct towards the environment.

It is expected that the proposed project will have low environmental impacts. However, any impacts identified will be investigated in detail during the impact assessment phase of the project. Measures to mitigate the impacts of the project will also be identified and investigated during the impact assessment phase of the project. The mitigation measures will include designs and management practices that will be embarked on, to prevent and/or minimise the impacts on the social, cultural, and environmental aspects. These mitigation measures will be described in more detail in the EMPr that UPL will be required to comply with throughout the life of the project. The EMPr will also include environmental monitoring programme that will allow UPL to keep track of the impacts of the project on the environment and where required, to take remedial action.

9.3 Needs and Desirability as per Government Regulation Notice 792 of 2012

DEA (2017), Guideline on Need and Desirability, says that when evaluating project specific applications, the strategic context of such applications and the broader societal needs and the public interest should be considered. The contents of Municipal Integrated Development Plans (IDP), Strategic Development Frameworks (SDF), Environmental Management Frameworks (EMF) and other relevant plans frameworks and strategies must be taken into account. Whether a proposed activity will be in line with or deviate from the plan, framework, or strategy per se is not the issue, but rather the ecological, social, and economic impacts that will result because of the alignment or

deviation". Where an application deviates from a plan, framework, or strategy the EIA must show why the deviation might be justifiable.

Considering the merits of a specific application in terms of the need and desirability consideration, it must be decided which alternative represents "the most practicable environmental option", which in terms of the definition in NEMA and the purpose of the EIA Regulations are *"that option that provides the most benefit and causes the least damage to the environment as a whole, at a cost acceptable to society, in the long-term as well as the short-term*." This is the ultimate goal of the EIA process and will only be fully addressed after the specialist studies have been undertaken and EIR and EMPr have been compiled.

The DFFE 2017 Guideline on Need and Desirability directs that during the Scoping Phase, the questions presented in the guideline document be used to identify issues to be addressed in the EIA process and alternatives that should be considered. In the EIR, the questions must again be considered, but for those questions for which the "scoping process" found that no further information were required, it can simply be reported that the questions were dealt with during scoping, with the remaining questions having to be considered in terms of the additional information generated during the assessment stage. Table 9-1 presents the questions where responses emanate from additional information has been generated during the assessment stage.

Table 9-1: Questions from DFFE 2017 Need and Desirability Guideline Document

Questions (DFFE, 2017)		Response
PART I: NEED		
1.	Is the land use associated with the activity being applied for considered within the timeframe intended by the existing approved SDF agreed to be the relevant environmental authority?	The proposed development will be within an existing warehouse, and in an Industrial area, thus making the land use favourable.
2.	Should the development, or if applicable, expansion of the town/area concerned in terms of this land use occur here at this point in time?	Yes. The warehouse is currently not being used for anything. The proposed project will be in good use of the available space.
3.	Does the community/area need the activity and the associated land use concerned? This refers to the strategic as well as local level.	Yes. The proposed project site is Industrial thus supporting this kind of development.
4.	Are the necessary services with adequate capacity currently available (at the time of application) or must additional capacity be created to cater for the development?	Yes, all required services are available and adequate.
5.	Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the municipality (priority and placement of the services and opportunity cost)?	The proposed development is of storage of dangerous goods in an existing warehouse therefore it will not implicate any infrastructure that may have been planned or require any services such as water sanitation access routes and others, since those services already exist on site.
6.	Is the project part of a national programme to address an issue of national concern or importance.	The proposed project will not result in creation of new jobs. The proposed project entails the relocation of the UPL storage facility to Sterkfontein. However, should UPL not be able to relocate to the proposed Sterkfontein warehouse, UPL may be forced to retrench some of the current staff due to reduced business prospects. The proposed project will therefore result in preservation of employment for the current UPL staff complement.
PART II: DESIRABILITY		
7.	Is the development the best practicable environmental option for this land/site?	Yes. The proposed project will not result in major environmental impact as there will be no

Questions (DFFE, 2017)		Response
		construction required since the development will be within an existing warehouse.
8.	Would the approval of this application compromise the integrity of the existing approved and credible IDP, and SDF as agreed to by the relevant authorities?	No. The approval of the proposed project will not only result with employment opportunities but a better utilization of the present warehouse.
9.	Would the approval of this application compromise the integrity of the existing environmental management priorities for the area (e.g., as defined in EMFs), and if so, can it be justified in terms of sustainability considerations?	No. The proposed project will not result in major environmental impact as there will be no construction required since the development will be within an existing warehouse
10.	Do location factors favour this land use at this place? (this relates to the contextualization of the proposed land use on this site within its broader context).	Yes. The proposed project will be located within an existing Sterkfontein warehouse which is in an industrial area which will be best fit for the proposed storage of dangerous goods.
11.	How will the activity of the land use be associated with the activity being applied for, impact on sensitive natural and cultural areas (built and rural/natural environment)?	The proposed project will not impact any sensitive environment since no construction will take place, but the dangerous goods will be stored in an existing warehouse.
12.	How will the development impact on people's health and well-being? (E.g., In terms of noise, odours, visual character and sense of place, etc.)?	The proposed project will be located within an industrial area where limited individuals are, the nearest community is as far as a kilometer away thus limiting noise nuisance. Odour controlled through better technological systems.
13. 13.	Will the proposed activity or the land use associated with the activity being applied for, result in unacceptable opportunity costs?	No. The proposed project would be located within an existing structure thus limiting any negative exposure to the environment.
14. 14.	Will the proposed land use result in unacceptable cumulative impacts?	No. All impact associated with the proposed activity will be discussed in detail during the impact assessment phase. The screening process has concluded that no major environmental impacts are anticipated as a result of the proposed project.

10 Description of the Baseline Environment

The following section presents an overview of the biophysical and socio-economic environment in which the proposed project is located, so as to:

- Understand the general sensitivity of and pressures on the affected environment;
- Inform the identification of potential issues and impacts associated with the proposed project, which will be assessed during the impact assessment phase;
- Identify gaps in available information to inform specialist study requirements (if needed); and
- Start conceptualising practical mitigation measures.

10.1 Climate

Rainfall in the City of Ekurhuleni area is typical of the Highveld summer rainfall region where more than 80% of rainfall occurs from October to April. Average rainfall is 715 mm to 735 mm annually. Hail can be expected periodically and mild damage to fruit harvests usually occurs in two out of three years, while severe damage occurs every two out of five years. According to the agricultural potential criteria of the National Department of Agriculture, the study area is suitable for rainfed crop production, provided that the crops are grown in areas with deep soil which stores water for use during dry periods in the growing season. Severe frost occurs frequently from mid-April to September. Temperatures below freezing are common in winter. Summers are mild with temperatures seldom above 30ºC. Northerly and north-westerly winds blow during winter and spring and north-easterly to north-north-easterly winds during summer. Winds are usually gentle, and strong winds are only experienced 15% of the time. Moderately high-speed winds occur from late winter to early spring. Wind damage to field crops is rare, but damage to deciduous fruit quite common (Ekurhuleni Metropolitan Municipality, 2008). Figure 10-1 shows the Climate data of the city, as obtained from Meteoblue meteorological service.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °C (°F)	33.8 (92.8)	33.5 (92.3)	35.2 (95.4)	29.4 (84.9)	29.2 (84.6)	28.8 (83.8)	24.5 (76.1)	27.0 (80.6)	33.0 (91.4)	32.5 (90.5)	33.6 (92.5)	33.0 (91.4)	35.2 (95.4)
Average high °C (°F)	32 (90)	32 (90)	30 (86)	27 (81)	25 (77)	22 (72)	22 (72)	26 (79)	30 (86)	32 (90)	32 (90)	32 (90)	28.5 (83.3)
Daily mean °C (°F)	27 (81)	27 (81)	26 (79)	23 (73)	21 (70)	18 (64)	18 (64)	21 (70)	25 (77)	26 (79)	27 (81)	27 (81)	24 (75)
Average low °C (°F)	14 (57)	13 (55)	13 (55)	10 (50)	6 (43)	2 (36)	2 (36)	4 (39)	8 (46)	11 (52)	13 (55)	14 (57)	9 (48)
Record low °C (°F)	6 (43)	0 (32)	1 (34)	−1 (30)	−5 (23)	−7 (19)	−6 (21)	−7 (19)	−3 (27)	2 (36)	1 (34)	0 (32)	−7 (19)
Average rainfall mm (inches)	132 (5.2)	86 (3.4)	79 (3.1)	41 (1.6)	13 (0.5)	5 (0.2)	2 (0.1)	7 (0.3)	20 (0.8)	85 (3.3)	114 (4.5)	142 (5.6)	726 (28.6)
Average rainy days (≥ 1.0 mm)	21	16.5	14.8	7.5	2.9	1.5	0.6	1.9	5.3	15.5	19.1	22.9	129.5
Mean monthly sunshine hours	250.1	224.8	238.8	236.9	276.0	266.9	283.9	284.1	280.8	269.5	248.7	263.9	3,124.4

srk consulting	**UPL SCOPING REPORT** Climate data for the City of Ekurhuleni	Project No. 593684

Figure 10-1: Climate data

10.2 Topography

The City of Ekurhuleni is located on the Southern African continental divide and part of the major watershed between the rivers that drain west towards the Atlantic Ocean and those that drain east towards the Indian Ocean. The area can generally be regarded as flat with a few outstanding topographical features including plains with pans, undulating plains with pans, strongly undulating

plains; superimposed river valley (Blesbokspruit) on plains with pans; and Ridges (Ekurhuleni Metropolitan Municipality, 2008).

A depiction of the area's topography is provided in Figure 10-2.

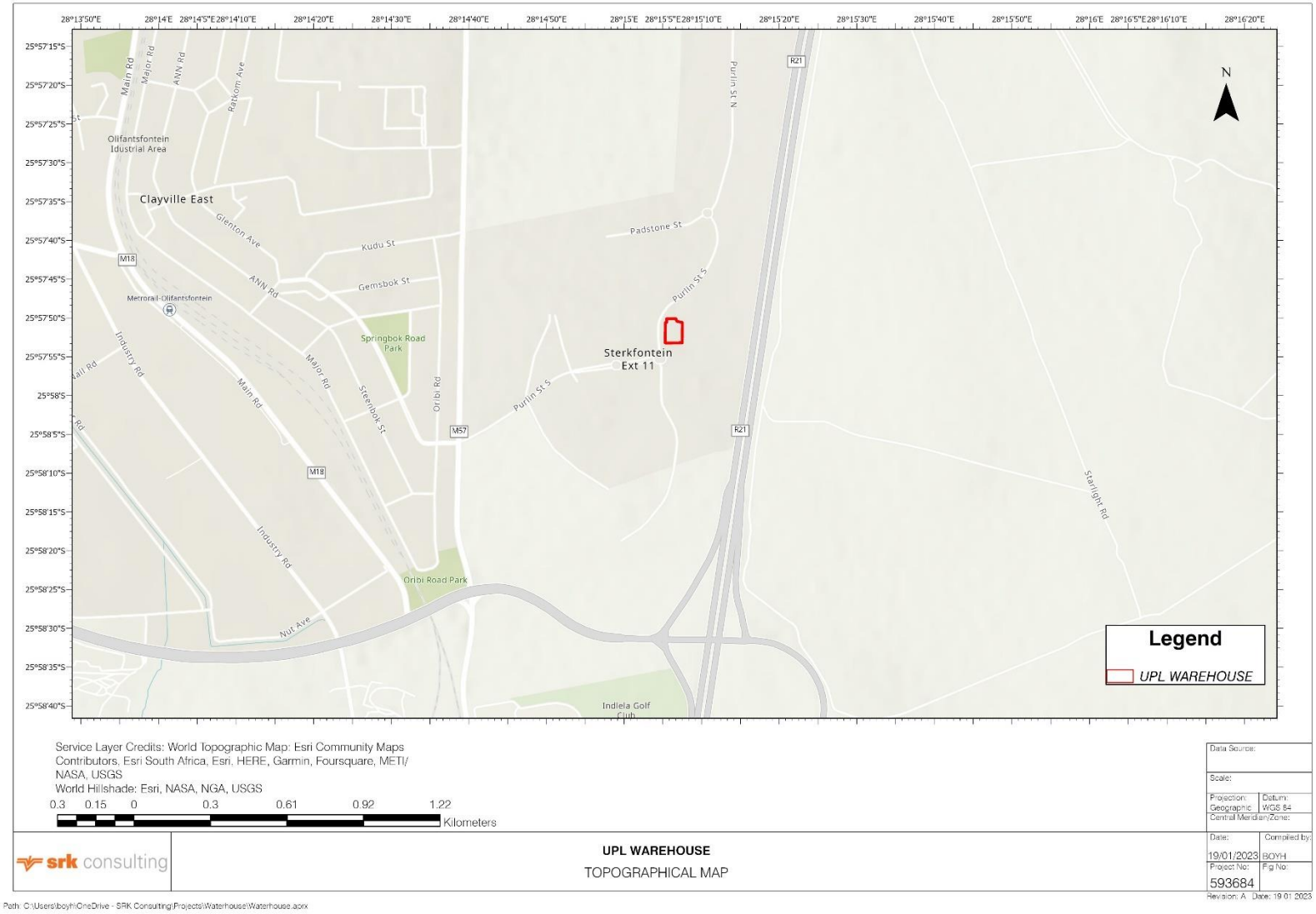


Figure 10-2: Topography

10.3 Geology

The City of Ekurhuleni is situated on a transition zone between the formations of a large granite batholith on its western border to the formations of the Witwatersrand and Transvaal Supergroups that is dominated by dolomites overlain by younger sediments of Karoo Supergroup in places. The dominant formations in the area are Granite-gneiss that is found in the northwest at Tembisa and to the west of Clayville. Dolomite that dominates the northern area between Clayville in the west and Bapsfontein in the east and all along the eastern boundary of the area towards Putfontein, Strubenvale as far south as Kwa-Thema and Dunnotar as well as an extensive area of dolomite in the southwest, south of Elspark and Withok Estates. Quartsite that dominates the north-south central area from the west of Clayville in the north through Kaalfontein, to the east of OR Tambo Airport and in a broad band from west to east from Germiston to Springs and also north of Bapsfontein. Surface shale is found in the west, south of Bapsfontein and in the east, south of OR Tambo Airport towards Germiston. Amphibolite occurs in the area around Edenvale east of Kempton Park and OR Tambo. A small area of surface dolorite occurs in the extreme south between Duduza and Vosloorus. The geological stability of an area is a key consideration in the area with a generally high possibility of sink holes and earth tremors in undermined areas (Ekurhuleni Metropolitan Municipality, 2008).

Figure 10-3 provides the underlying geology of the study site and the geology of the surrounding area.

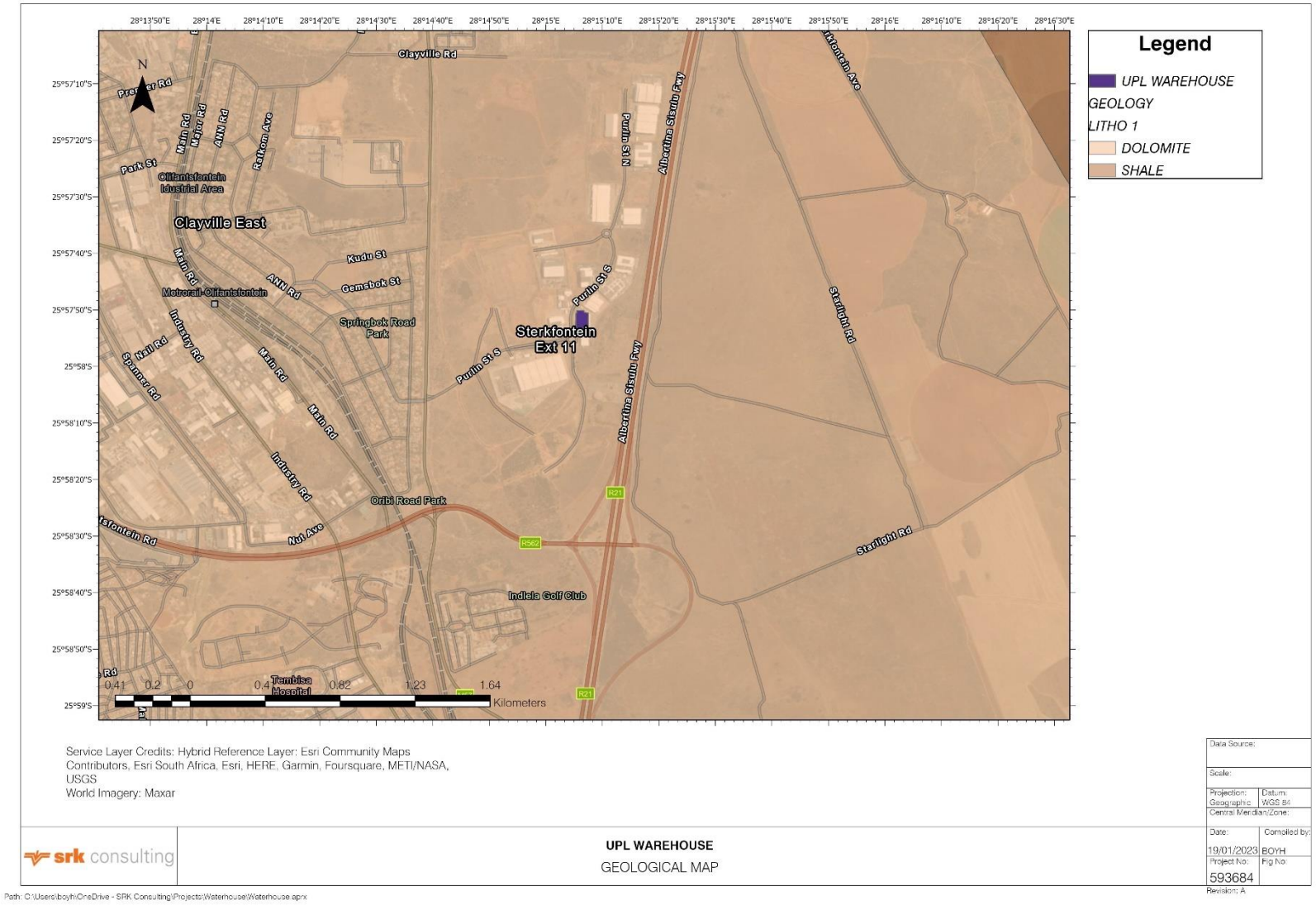


Figure 10-3: Geology

10.4 Sub-surface Hydrology

The City of Ekurhuleni area is dominated by dolomite of the Chuniespoort Group (part of the Transvaal System) and tillites of the Dwyka Group (part of the Karoo System), both of which carry water. The presence of various geological structures, such as faults, fissures, and fracture zones, as well as contact zones of intrusions such as dykes and sills, dictate the occurrence of groundwater. Karst, Intergranular and Fractured Aquifers are the dominant aquifer types in the City of Ekurhuleni. The Karst Aquifers occur in the dolomites of the Chuniespoort Group. This is the most important aquifer type in South Africa. Infiltrating rainwater containing weak carbonic acid dissolves dolomites resulting in caves and cavities that may facilitate the formation of sinkholes, especially if the water from these cavities is extracted through boreholes. Boreholes with the highest yield are found in the dolomites that occur from Wadeville to just south of Vosloorus. Yields of more than 10 litres per second are common. High recharge of underground water and significant underground flow result in low density surface drainage in dolomitic areas. This underground flow often supports high yielding springs at impermeable boundaries, such as dykes or lithological contact points. Ground water quality in the study area is generally acceptable for any use. In some areas contamination with chlorides, sulphates and nitrates has been recorded and care should be taken with groundwater used for human consumption. Groundwater from the Dwyka Group is generally suitable for any use. Groundwater yield from aquifers in this formation is, however, low. Due to the mining activities in the area, ground water quality is under threat of acid water pollution from mines (Ekurhuleni Metropolitan Municipality, 2008).

10.5 Soils, Land-Use, and Land capability

Soil underlying the study area is provided in Figure 10-4 and can be described as clayey loam type. Clay loam soils contain around 30-40% of clay and 20-45% sand, with lower levels of silt. Clay loam soils are characterized as fine-textured. soils, with medium to high water holding capacity, medium fertility, and lower drainage rates (TerraAfrica, 2020).

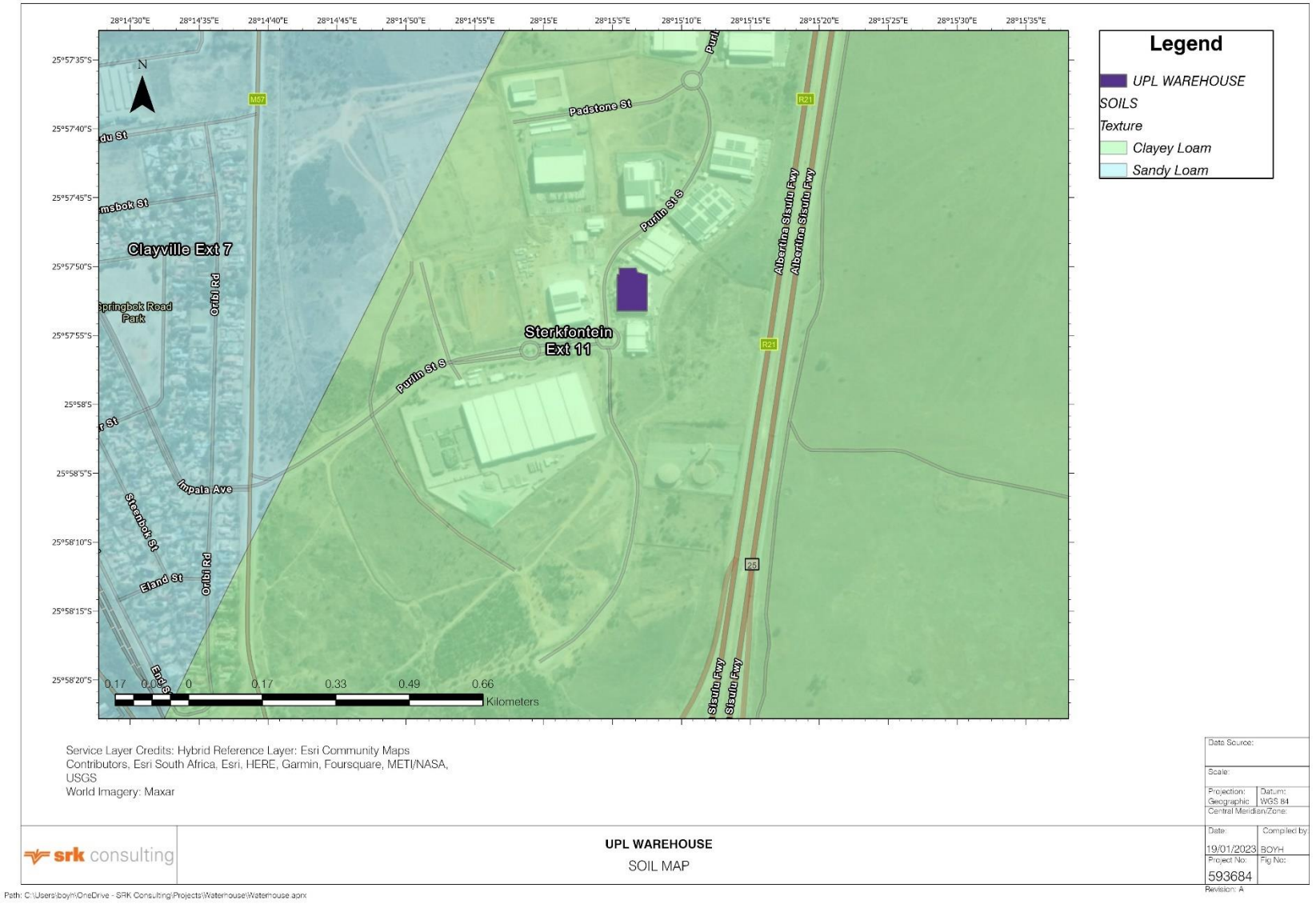


Figure 10-4: Soil map

10.6 Noise

Noise in the project area is currently mostly generated by vehicle traffic and other surrounding industries. Since this project will not have any construction phase, noise impacts are not anticipated.

10.7 Visual

The warehouse is located in an industrial complex, surrounded by other similar looking warehouses and buildings. The warehouse is not visual from outside the industrial complex and the site visually will not be altered since no new construction structures will be introduced.

10.8 Surface Water

The site is situated in the Quaternary Catchment A21B (Figure 10-5). In this catchment, the precipitation rate is lower than the evaporation rate with a Mean Annual Precipitation (MAP) to Potential Evapotranspiration (PET) of 0.31. Consequently, watercourses in this area are sensitive to changes in regional hydrology, particularly where their catchment becomes transformed and the water available to sustain them becomes redirected.

Quaternary Catchment A21B is located in the first water management area (WMA), Limpopo (DWS, 2016). In this WMA the major rivers include the Limpopo, Matlabas, Mokolo, Lephalale, Mogalakwena, Sand, Nzhelele, Mutale and Luvuvhu. The Olifantspruit and tributaries which drain into the Sesmylspruit and then the Hennops River approximately 4km northeast of the northernmost extent of the road. The Hennops River decants into the Crocodile River which confluence with the Limpopo River (Figure 10-6).

There are no watercourses associated with the site or within 100m of the warehouse.

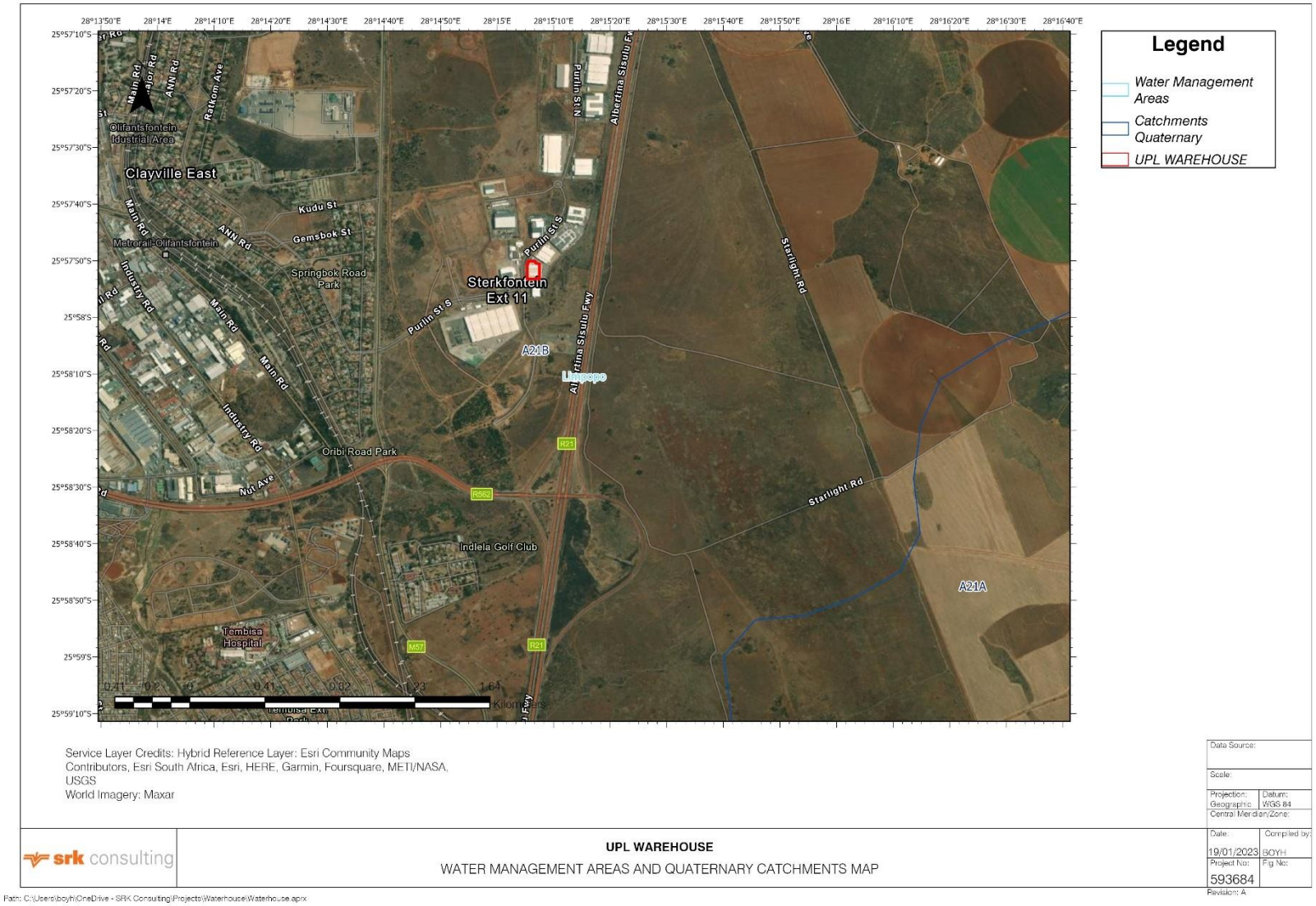


Figure 10-5: Water Management Areas

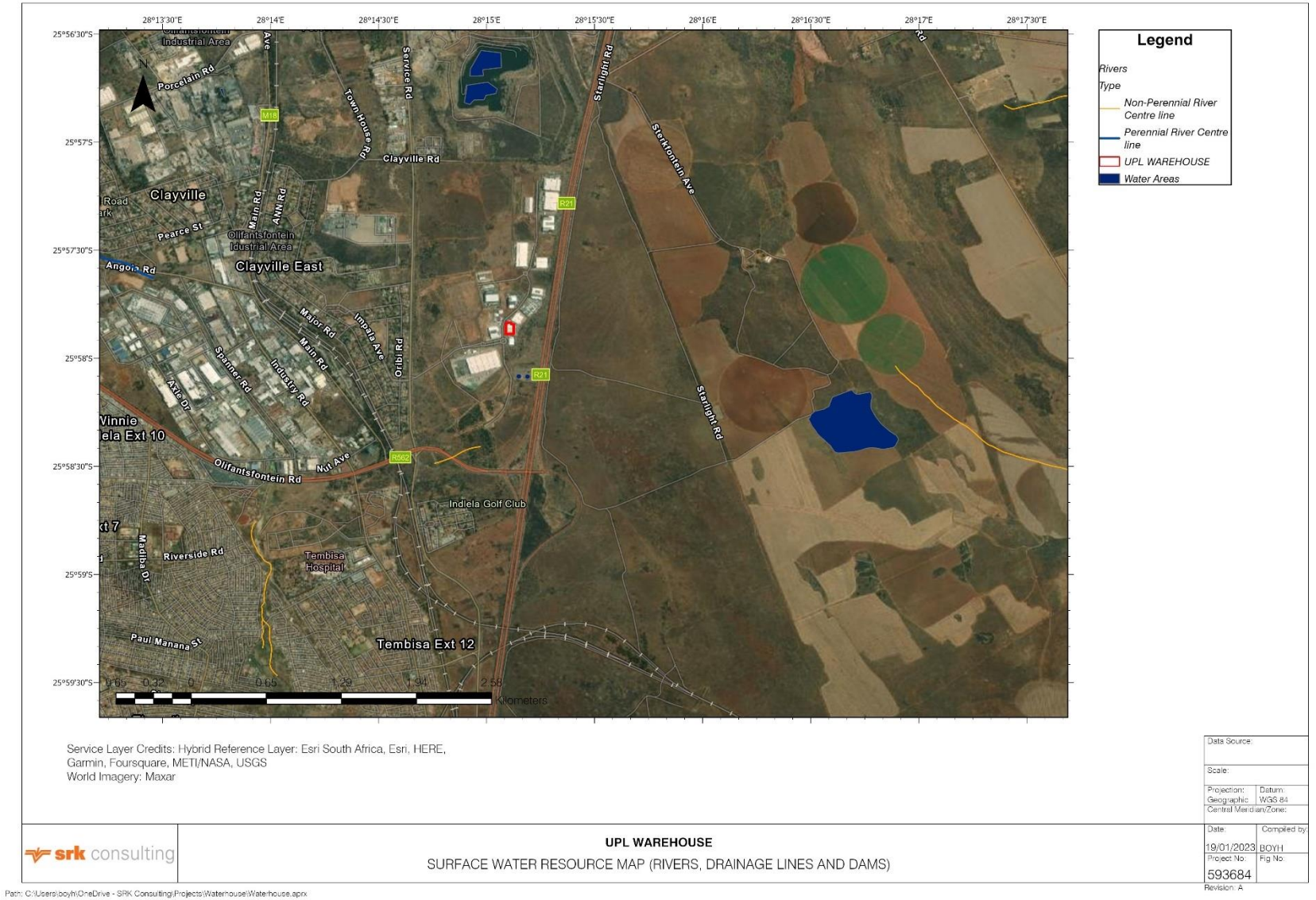


Figure 10-6: Surface water resources

10.9 Wetlands

Based on current outputs of the NFEPA project (Nel et al., 2011), there are several NFEPA wetlands or wetland clusters located within the Olifantsfontein area and within several kilometers from the study area's catchment. According to the NFEPA, there is an artificial flat wetland located within 500m of the study area (Figure 10-8). It must be noted that the two areas classified as artificial flat wetland areas are two tanks as shown in Figure 10-7.

Figure 10-7: Tanks Classified as Artificial Flat Wetlands

10.10 Areas of Conservation Concern

The project site is located in a Critical Biodiversity Area (areas that are required to meet biodiversity targets for species, ecosystems, or ecological processes) as shown in Figure 10-9.

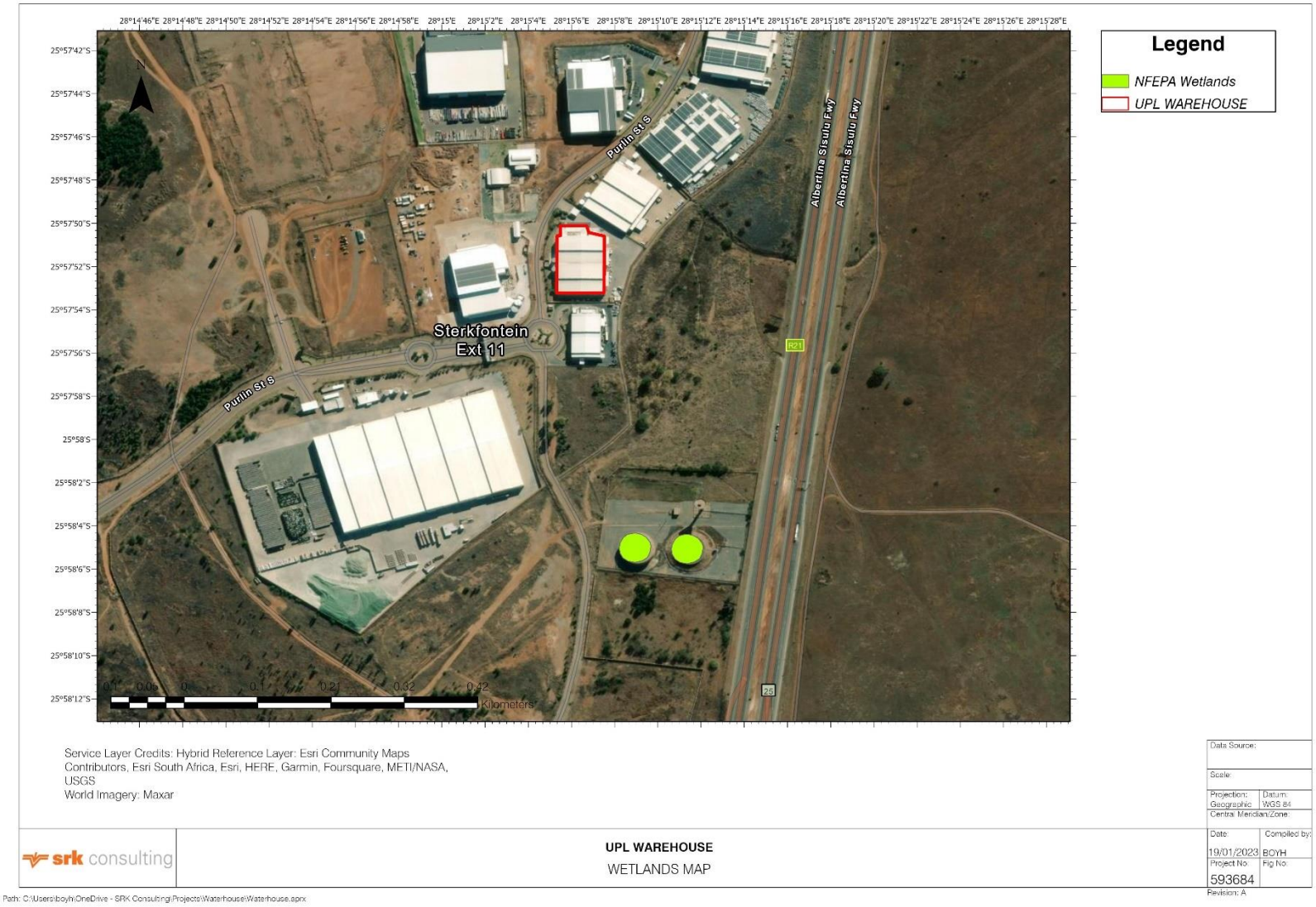


Figure 10-8: NFEPA Wetlands Map

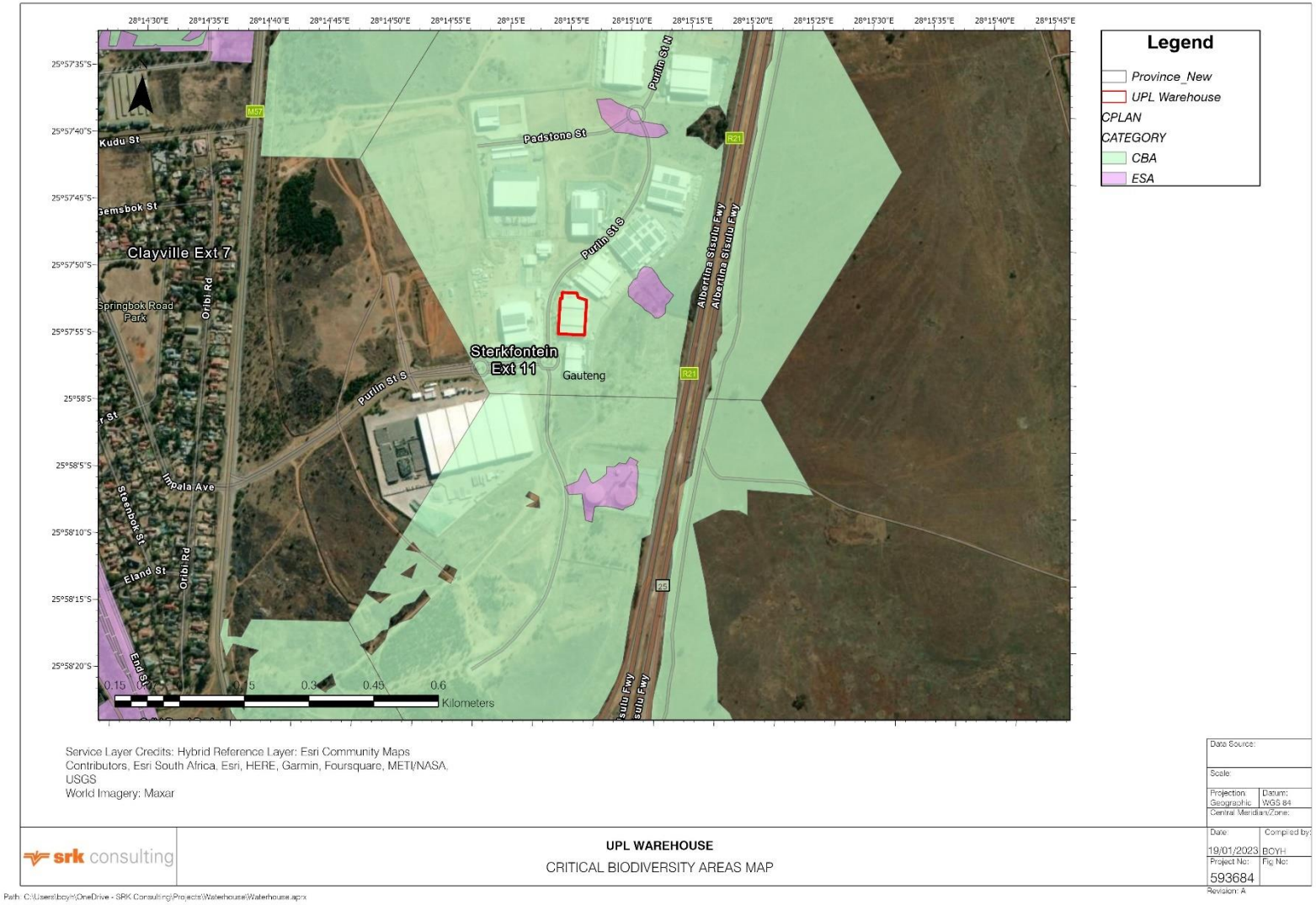


Figure 10-9: Critical Biodiversity Areas

10.11 Biodiversity

10.11.1 Broad-scale Vegetation Characteristics

The project site is located in the Grassland Biome and Dry Highveld Grassland bioregion. The vegetation in and surrounding the project site is Carletonville Dolomite Grassland (GH15). This vegetation type has been classified as vulnerable although it is not included within the national list of ecosystems that are threatened and in need of protection (GN 1002 of 2011) published under the National Environmental Management Biodiversity Act (Act No. 10 of 2004) (NEM: BA). The study area is located within a relatively dense industrial area with most of the landscape being transformed comprising of hard surfaces and large built-up areas.

10.12 Socio – Economic Environment

10.12.1 Basic Demographic Profile

The City of Ekurhuleni has experienced a significant population growth in the last 20 years. Since 2000 the City's population increased from an estimated 2.3 million individuals to approximately 3.3 million in 2016. The City's population growth rate is steady at 2.47% per annum, coming down from a high of 4% per annum in the period between 1996 and 2001. The current population represents over 6% of the total population of South Africa (StatsSA: 2017). An important contributor to the growth in the Ekurhuleni population is the in-migration into the City (City of Ekurhuleni: 2018).

Olifantsfontein is divided into 3 main suburbs, namely Clayville East (the entire area east of the passing Metrorail Line), Clayville Industrial (the entire area south of View Road, with many industrial operations) and Clayville CBD with its extensions (the area north of View Road). The area's total population amount to 14,526 people.

10.12.2 Unemployment

Even though there are high levels of unemployment, a large proportion of the City of Ekurhuleni Municipality population earns a living in informal trade. It should be noted that formal employment levels are not an indicator of the generation of income. Surplus produce from informal markets is quickly becoming important for the generation of income in the region.

As of 2011 unemployment rate within the region is at 28.8% high, and the economically active population (this include individuals between the age of 15 to 64) that are either employed or are actively seeking employment accounts to 71.7% of the entire population.

10.12.3 Education

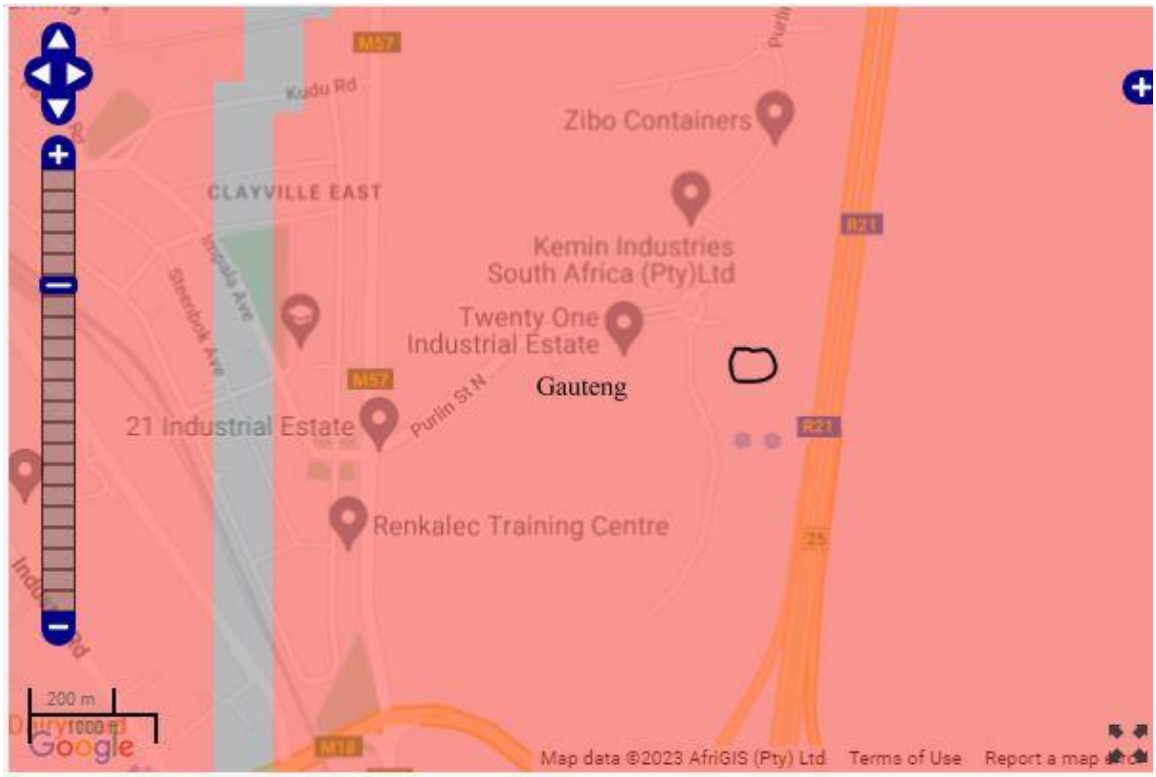
The level of education influences growth and economic production of a region. Within the City of Ekurhuleni municipality 3% of the population has no form schooling, 35.8% has some form of primary education, 19.4% has completed metric and only 3.8% of the population have higher education. This means that majority of the population have a low skill level and will need job employment in low skilled sectors.

10.13 Heritage and Cultural Aspects

Based on the SAHRIS database, the study area is within a highly sensitive area for palaeontology resources (Figure 10-10) and a field assessment and protocol for finds is required. However, due to the fact that the proposed warehouse is already existing and location of the warehouse, which is a built-up industrial area, it is the considered opinion of the EAP that a Paleontological Impact

Assessment is not required since the proposed development will not result in disturbance of paleontological or heritage artifacts or objects of importance.

The DFFE screening tool results shows that the site is of low sensitivity in terms of heritage and cultural importance.



Colour	Sensitivity	Required Action
RED	VERY HIGH	field assessment and protocol for finds is required
ORANGE/YELLOW	HIGH	desktop study is required and based on the outcome of the desktop study, a field assessment is likely
GREEN	MODERATE	desktop study is required
BLUE	LOW	no palaeontological studies are required however a protocol for finds is required
GREY	INSIGNIFICANT/ZERO	no palaeontological studies are required
WHITE/CLEAR	UNKNOWN	these areas will require a minimum of a desktop study. As more information comes to light, SAHRA will continue to populate the map.

srk consulting	**UPL Warehouse SCOPING REPORT** SAHRIS Sensitivity	Project No. 5936684

Figure 10-10: Paleo sensitive Map

10.14 Major Hazard Installation

The Occupational Health and Safety Act defines a Major Hazard Installation as

a) where more than the prescribed quantity of a substance is kept or maybe kept (The listed substances are provided in General Machinery Regulations Schedule A); and

b) where the substance is processed, produced, used, handled, or stored which has the potential to cause a major incident.

An assessment will be undertaken to determine whether the warehouse can be classified as a Major Hazard Installation (MHI). An MHI Risk Assessment will be undertaken as part of the impact

assessment process. Should the warehouse be deemed an MHI, UPL will undertake the required studies and registration process.

11 Plan of Study for the Environmental Impact Assessment

The proposed project triggers activities listed in Listing Notice 2 of the NEMA and will require a full EIA process, where an S&EIR and EMPr will be compiled and submitted to GDARD. A summary of the approach to be followed is provided in Figure 2-1.

This PoS for the EIA is provided to give an indication of further studies and assessments to be undertaken for the project and the impact assessment methodology that will be used to qualify and quantify the identified impacts.

The scoping process is designed to identify impacts and determine if these impacts are sufficiently significant to warrant a specialist investigation in the EIA Phase. Issues requiring further investigation require a common set of assessment criteria against which the impacts can be described, evaluated, and the significance determined.

11.1 Purpose of this Plan of Study

The purpose of the scoping phase of this EIA process is to identify potential environmental impacts, and to discuss the alternatives considered. This PoS outlines the process to be followed during the course of the EIA and is submitted with the Final Scoping Report to GDARD for decision making. Comments received during the draft scoping report review and comment period will be incorporated into the Final Scoping Report and PoS, which will be submitted for approval.

The purpose of the PoS is to lay out an effective methodology to be followed during the assessment of impacts, should this be deemed necessary, in order to meet the requirements of the NEMA.

11.2 Purpose of the EIA/EMPr

The objectives of the EIA/EMPr will be to:

- Identify and assess the environmental (biophysical, socio-economic, and cultural) impacts of the operation, decommissioning and post closure impacts of the proposed project. The cumulative impacts of the proposed development will also be identified and evaluated;
- Identify and evaluate potential management and mitigation measures that will reduce the negative impacts of the proposed development and enhance the positive impacts;
- Compile monitoring, management, mitigation and training needs in the EMPr; and
- Provide the decision-making authorities with sufficient and accurate information in order to make a sound decision on the proposed development.

11.3 Methodology

This report presents the biophysical, socio–economic, and cultural impacts that have been identified and assessed at a scoping level.

A comprehensive and standardized methodology will be used to assess the environmental impacts during the impact assessment phase of the project. A plan will be prepared to mitigate and manage these impacts.

The EMPr will focus on the appropriate management of the proposed impacts resulting from the operation of the proposed project.

11.4 Environmental Impact Assessment Report

Upon acceptance of the Final Scoping Report by the GDARD, a Draft EIR and EMPr will be compiled in terms of Appendix 3 of GNR 326 promulgated in terms of the NEMA. The purpose of the impact assessment phase of this EIA process is to systematically assess the impacts of the proposed project on the immediate and surrounding biophysical and socio environment. All comments received on the Draft EIR will be addressed and taken into consideration prior to submission of the Final EIR to GDARD.

11.5 Environmental Management Programme

A project specific EMPr will be compiled in accordance with Appendix 4 of GNR 326 of the NEMA. This will provide effective management and mitigation measure pertaining to the proposed development relating to the identified environmental impacts. Specialists (if required) will be required to develop management and monitoring plans in their respective areas of expertise, which will be incorporated into the EMPr. These management and mitigation measures will strive to minimise the negative impacts of the proposed development and enhance the positive impacts.

11.6 Stakeholder Engagement Going Forward

The stakeholder engagement process conducted thus far is provided in Section 8 The PoS for the proposed development should achieve the following:

- Describe the tasks that will be undertaken as part of the EIA/EMPr process, and the process followed in undertaking these tasks;
- Describe the authority consultation process and an indication when consultation will be conducted;
- Provide the assessment methodology used to assess the potential environmental impacts; and
- Provide an overview on the on-going I&AP consultation process.

11.6.1 Submission of Environmental Impact Assessment Report and Environmental Management Programme for Review

Upon acceptance of the Final Scoping Report by GDARD, a draft Environmental Impact Assessment Report (EIR) will be compiled in terms of Appendix 3 of GNR 326 promulgated in terms of the NEMA. The purpose of the impact assessment Phase of this EIA process is to systematically assess the impacts of the proposed project on the immediate and surrounding biophysical and socio environment.

The draft EIR and EMPr will be made available for a 30-day commenting period. Registered I&APs will be notified of the availability of the draft EIR and EMPr Report through email, fax, and posted registered letters. Depending on the responses received during the registration period, and if requested by the stakeholders, a public meeting and/or key stakeholder meetings may be held during the impact assessment phase of the project.

Where necessary, comments and issues raised by I&AP's during the commenting period will be consolidated into the Final EIR and EMPr with the relevant response issued by the EAP. The Final EIR and EMPr will then be submitted to the GDARD for decision making. The comments will also be collated into the CRR that will form an Appendix to the Final EIR.

11.6.2 Authority Consultation

Ongoing consultation with the different authorities will be conducted during the course of the EIA process. Further consultations with the competent authorities will be conducted should they become necessary. Authority consultation is considered an on-going process until a decision is made on the environmental application. Other authorities that will be included are the local and district municipalities, ward councillors, and others identified during the scoping phase of the project.

The EIA phase will only commence if GDARD accepts the Scoping Report and the associated PoS for the EIA. For the remainder of the EIA, the interaction with GDARD will be as follows:

- Submission of the Draft EIR and EMPr to the I&APs for review and comment;
- Addressing comments on the EIR and EMPr;
- Submission of the Final EIR and EMPr; and
- Obtaining a decision from GDARD.

11.6.3 Consultation Post Decision

Once a decision on the EA application has been made, the EAP team will inform the registered I&APs of the decision through e mails, fax, and notification letters. The notification will include information on the appeal process that the I&APs may go through should they wish to appeal GDARD's decision.

11.7 Alternatives

According to GNR 326 promulgated in term of the NEMA, feasible alternatives need to be considered and assessed during the scoping phase of the project. During the scoping phase, the project alternatives, including the no-go option have been identified and described in Section 6. All alternatives, including the no-go option will be subject to the impact assessment.

11.8 Specialist Studies

According to the DFFE Screening tool, the area is considered to be of very high in terms of the aquatic biodiversity, palaeontology, and terrestrial biodiversity value. The results from the DFFE Screening Tool are summarised in Table 11-1.

Table 11-1: DFFE Screening Tool Results

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			X	
Animal Species Theme		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme			X	
Defence Theme			X	
Palaeontology Theme	X			
Plant Species Theme			X	
Terrestrial Biodiversity Theme	X			

The proposed development entails storage of dangerous good within an existing warehouse, thus no new construction activities are anticipated. In addition, the warehouse is located in a built-up industrial area, where no vegetation still remains. It is the opinion of the EAP that no specialist studies are

required to support this EA application process since the area is already sterilised by the existing infrastructure and does not have any remaining vegetation and heritage resources.

An MHI risk assessment will be undertaken as part of the process. Where required, UPL will undertake an application with the municipality to register as an MHI.

The EAP team will be responsible for the identification and assessment of potential impacts that will result from the operation of the proposed project. The EAP team will also identify mitigation measures and monitoring requirements that will ensure that the potential environmental impacts are avoided and/or minimised.

11.9 Impact Assessment Methodology

A quantitative impact assessment will be conducted for the project. The method to be used makes use of the basic risk assessment approach of deriving an expression for risk from the product of likelihood (probability) and consequences.

The main objective of the impact assessment is to identify the impacts that can be avoided and/or mitigated and the benefits of the positive impacts during the planning, construction, operation and decommissioning and rehabilitation phases of the proposed project on the receiving environment.

11.9.1 Impact Identification

Specialists (If needed will be required to identify impacts (positive and negative) associated with the project, then further specify whether the impact would have a direct/indirect effect. An assessment of the *cumulative* and *residual* impacts if any, that may occur because of the proposed project will also evaluated.

11.9.2 Impact Assessment Methodology

The anticipated impacts associated with the proposed project will be assessed according to SRK's standardised impact assessment methodology, which is presented below. This methodology has been utilised for the assessment of environmental impacts where the consequence (extent, intensity, and duration of the impact) and probability of the impact have been considered in parallel to provide an impact rating and hence an interpretation in terms of the level of environmental management required for each impact as follows:

The **significance** of an impact is defined as a combination of the **consequence** of the impact occurring, including possible irreversibility of impacts and/or loss of irreplaceable resources, and the **probability** that the impact will occur.

The criteria used to determine impact consequence are presented in Table 11-2.

Table 11-2: Criteria used to determine the Consequence of the Impact

Rating	Definition of Rating	Score
A. *Extent* *– the area over which the impact will be experienced*		
Local	Confined to project or study area or part thereof (e.g. site)	1
Regional	The region, which may be defined in various ways, e.g. cadastral, catchment, topographic	2
(Inter) national	Nationally or beyond	3
B. ***Intensity*** *– the magnitude of the impact in relation to the sensitivity of the receiving environment, taking into account the degree to which the impact may cause irreplaceable loss of resources*		
Low	Site-specific and wider natural and/or social functions and processes are negligibly altered	1

Rating	Definition of Rating	Score
Medium	Site-specific and wider natural and/or social functions and processes continue albeit in a modified way	2
High	Site-specific and wider natural and/or social functions or processes are severely altered and/or irreplaceable resources[1] are lost	3
C. ***Duration***– *the timeframe over which the impact will be reversed*		
Short-term	Up to 2 years	1
Medium-term	2 to 15 years	2
Long-term	More than 15 years or irreversible	3

The combined score of these three criteria corresponds to a **Consequence Rating**, as provided in Table 11-3.

Table 11-3: Method used to determine the Consequence Score

***Combined Score* (A+B+C)**	3 – 4	5	6	7	8 – 9
Consequence Rating	Very low	Low	Medium	High	Very high

Once the consequence is derived, the probability of the impact occurring is considered using the probability classifications presented in Table 11-4.

Table 11-4: Probability Classification

Probability– *the likelihood of the impact occurring*	
Improbable	< 40% chance of occurring
Possible	40% - 70% chance of occurring
Probable	> 70% - 90% chance of occurring
Definite	> 90% chance of occurring

The overall **significance** of impacts is then determined by considering consequence and probability using the rating system prescribed in Table 11-5.

Table 11-5: Impact significance ratings

		Probability			
		Improbable	Possible	Probable	Definite
Consequence	Very Low	**INSIGNIFICANT**	**INSIGNIFICANT**	**VERY LOW**	**VERY LOW**
	Low	**VERY LOW**	**VERY LOW**	**LOW**	**LOW**
	Medium	**LOW**	**LOW**	**MEDIUM**	**MEDIUM**
	High	**MEDIUM**	**MEDIUM**	**HIGH**	**HIGH**
	Very High	**HIGH**	**HIGH**	**VERY HIGH**	**VERY HIGH**

Finally the impacts will also be considered in terms of their status (positive or negative impact) and the confidence in the ascribed impact significance rating. The prescribed system for considering impacts status and confidence (in assessment) is laid out in Table 11-6.

[1] Defined as important cultural or biological resource which occur nowhere else, and for which there are no substitutes.

Table 11-6: Impact status and confidence classification

Status of impact	
Indication whether the impact is adverse (negative) or beneficial (positive).	+ ve (positive – a 'benefit')
	– ve (negative – a 'cost')
Confidence of assessment	
The degree of confidence in predictions based on available information, SRK's judgment and/or specialist knowledge.	Low
	Medium
	High

SRK recommends that the impact significance rating should be considered by authorities in their decision-making process based on the implications of ratings ascribed below:

- **INSIGNIFICANT**: the potential impact is negligible and **will not** have an influence on the decision regarding the proposed activity/development.
- **VERY LOW**: the potential impact is very small and **should not** have any meaningful influence on the decision regarding the proposed activity/development.
- **LOW**: the potential impact **may not** have any meaningful influence on the decision regarding the proposed activity/development.
- **MEDIUM**: the potential impact **should** influence the decision regarding the proposed activity/development.
- **HIGH**: the potential impact **will** affect the decision regarding the proposed activity/development.
- **VERY HIGH**: The proposed activity should only be approved under special circumstances.

In the report, practicable mitigation and optimisation measures will be recommended and impacts rated in the prescribed way both without and with the assumed effective implementation of essential mitigation and optimisation measures. Mitigation and optimisation measures will be either:

- **Essential**: best practice measures which must be implemented and are non-negotiable; and
- **Best Practice**: recommended to comply with best practice, with adoption dependent on the proponent's risk profile and commitment to adhere to best practice, and which must be shown to have been considered and sound reasons provided by the applicant if not implemented.

12 Anticipated Environmental, Social, and Cultural Impacts

The scoping phase aims to identify the potential positive and negative biophysical, socio-economic, and cultural impacts that the proposed project. Anticipated impacts that have been identified by the project team are provided in Table 12-1.

All impacts in terms of operation and decommissioning together with the recommended mitigation measures will be and addressed in the impact assessment phase of the project.

Table 12-1: Summary of potential environmental impacts associated with the proposed development

Element of Environment	Potential Impact Descriptions
Socio-Economic	Possible job and business opportunities during all phases of the project.
Noise	Possible generation from vehicles delivering materials to site.
Traffic	Possible impacts on traffic due to transportation materials to site
Air Quality	Possible emission of odour from chemicals
Biodiversity	As the proposed warehouse is located within the footprint of an already sterilised industrial area, no loss of biodiversity is expected as result of the operation of the project. There is potential for loss of biodiversity from proliferation of alien invasive plant species
Surface Water	Possible, but unlikely groundwater contamination.
Groundwater	Possible, but unlikely surface water contamination.
Waste Management	Potential ground and surface water impacts due to improper waste management practises. Potential odours due to improper waste management practises

12.1 Operational Phase

12.1.1 Socio Economic

The proposed storage of goods within the Sterkfontein warehouse will have positive impact in that it will enable UPL to preserve employment for the current staff complement. Should the project not proceed, UPL will be required to retrench some of the staff members.

The EIA team will include a socio-economic impact assessment and statement in the EIR and will provide management and mitigations measure to prevent and/or minimise the any negative social impacts that may be associated with the proposed project.

12.1.2 Air Quality

The proposed project may result in air quality impacts due to vehicle emissions and chemical due to improper management or storage of waste at the site. The air quality impacts can be mitigated through measures included in Table 12-2, which will further be refined in the EIA phase.

12.1.3 Noise

It is expected that noise will be generated from the movement of vehicles and the use of heavy equipment during the operational phases of the project. The proposed project site is already developed and consists of warehouses for various brands. It is not expected that the noise associated with the proposed development will result in substantive additional noise impacts in the area. However, the implementation of mitigation measures included in Table 12-2, which will further be refined in the EIA phase will further reduce the significance of the potential noise impacts.

12.1.4 Groundwater

The proposed project will be located within an existing warehouse, which is lined with concrete. This will limit the potential impact on groundwater because of the operation of the project, including potential impacts from improper offloading and onloading of goods.

Potential leaking to ground surface, and subsequent impact on the groundwater system, could potentially occur should there be operation and maintenance failures. However, the implementation of mitigation measures included in Table 12-2, which will further be refined in the EIA phase will further reduce the significance of the potential ground water impacts.

12.1.5 Traffic

Although trips can be optimised, transportation of goods during the operational phase will result in increased traffic count in the area.

12.1.6 Surface Water

The potential impacts on surface water during the operational phase of the proposed project will be because of potential contaminated runoff from the onloading and offloading areas. The implementation of stormwater management will ensure that clean and dirty water are kept separate.

12.1.7 Waste Management

Poor waste management practices will result in negative environmental impacts. A waste management plan will be compiled during the impact assessment phase of the project and will be incorporated into the project EMPr.

12.1.8 Mitigation Measures

Preliminary high level mitigation measures have been identified and summarised in Table 12-2. Specific mitigation measures will be identified during the impact assessment phase of the process. The potential impacts identified will be assessed during the impact assessment phase of the process. Specialist studies (if required) will be undertaken, and the specialists will identify the required mitigation measures that UPL must implement to reduce the significance of the identified impacts.

Table 12-2: Preliminary High Level Mitigation Measures

Project Phase	Environmental Aspect	Potential Impacts	Preliminary High Level Mitigation Measures
Operational	Biodiversity	Proliferation of alien invasive species due to ineffective management and control of alien invasive plant species	Removal of the alien and weed species encountered on the property must continue to take place. Care should be taken with the choice of herbicide to ensure that no additional impact and loss of indigenous plant species occurs due to the herbicide used. Landscaping of the gardens must include removal of weeds that pose a threat to indigenous vegetation. Alien vegetation that is removed must not be allowed to lay on unprotected ground as seeds might disperse upon it. All cleared plant material to be disposed of at a licensed waste facility, which complies with legal standards.
		Movement of construction vehicles and machinery may result in collision with fauna, resulting in loss of fauna.	It is recommended that regulated speed limits be implemented on all roads in order to minimise risk to fauna from vehicles.
	Air Quality	Potential odours emanating from the warehouse and waste storage bins Exhaust emissions from maintenance vehicles	Ensure adequate ventilation of the warehouse, to avoid odours. Ensure proper waste management practises. Ensure vehicles and machinery are well maintained and regularly services.
	Noise	Noise generated from vehicles and machinery	Correct Personal Protective Equipment (PPE) must always be worn by the personnel at the site. All equipment should be provided with standard mufflers. Muffling units on vehicles and equipment must be kept in good working order. All equipment must be kept in good working order Equipment must be operated within specifications and capacity (e.g., no overloading of machines). Vehicles with low noise levels to be used and regular maintenance of equipment must be undertaken.
	Traffic	Route congestion Increased vehicles may result in degradation of road network	Adhere to road speed limits Optimise trips
	Stormwater Management	Possible contaminated dirty water runoff to surrounding areas resulting in the impact on local surface water quality	Contaminated runoff from materials handling, onloading and offloading areas will be contained where necessary. No direct discharge of polluted water from materials handling, onloading and offloading areas to the environment is permitted. Clean and Dirty water shall be kept separate per the requirements of GNR704.
	Social	Influx of people potentially seeking employment Safety and security at the site	Where required, ensure fair opportunities for locals for opportunities such as catering if required and security personnel.

Project Phase	Environmental Aspect	Potential Impacts	Preliminary High Level Mitigation Measures
		Consideration of local labour and suppliers in the area (positive impact)	
	Waste Management	Disposal of hazardous waste including hydrocarbon contaminated soils, rags etc. could result in the contamination of surface runoff resulting in the deterioration of water quality of the watercourse.	No dumping shall be allowed in or near the site. Hazardous containers shall be re-used, recycled, or disposed (last resort) of at an appropriate licensed site. Hazardous waste will be removed and managed by an approved service provider. A safe disposal certificate will be provided by the approved service provider as proof of responsible disposal of hazardous waste. The safe disposal certificates shall be stored and provided on request.
	Soil and Groundwater Contamination	Potential soil and groundwater contamination due to local spillages of oils and hydrocarbons from vehicles and machinery	Maintain current monitoring and management of the overall warehouse. UPL shall make use of the existing stormwater management infrastructure to ensure the clean and dirty water segregation. Remediation of spillages must be conducted on a continual basis. Spill kits to be made available at areas of possible spillages of hazardous substances.

12.2 Cumulative impacts

Incomparable activities can result in several complex effects on the natural biophysical and social environment. These impacts are mainly identified as direct and immediate effects on the environment by a single entity affecting a variable of the environment. These direct impacts have the potential to combine and interact with other activities, depending on the surrounding environmental state and land use. These impacts may aggregate or interact with other impacts to cause additional effects, not easily quantified when assessing an individual entity.

The NEMA EIA Regulation of 2014, as amended in 2021 specifically requires that cumulative impacts be assessed. The impact assessment phase will include a description and analysis of the potential cumulative effects of the proposed project, and past and present projects hereby considering the effects of any changes on the:

- Biophysical; and
- Socio-economic conditions.

The following potential preliminary cumulative impacts have been identified based on the project description and past studies:

- Emissions due to operational equipment and machinery, adding to overall ambient air quality;
- Nuisance Noise due to operational equipment and movement of vehicles;
- Increased influx of job seekers to the general area;
- Potential groundwater and surface water impacts from improper materials handling, offloading and onloading of material; and
- The operation of the warehouse may cause traffic-related impacts on the local road network.

The EAP team will identify significant past and present projects and activities that may interact with the project to produce cumulative impacts during the impact assessment phase of the process. The EAP team and specialists will include mitigation and management measures in the EMPr that UPL will be required to implement to, where possible, avoid the negative impact and/or minimise the significance of the impacts.

12.3 Decommissioning

It is not expected that the warehouse will be decommissioned in the near future. It is expected that should decommissioning be required, an EIA will be conducted in compliance with the environmental legislation applicable at that time.

As such, no impact assessment was conducted for the decommissioning and closure phase of the project.

13 Assumptions and Limitations

* *In accordance with the purpose of Scoping, this report does not include any specialist investigations on the receiving environment, which will only form part of the impact assessment phase.*

The findings included in this Scoping Report are based on existing information from previous studies done within the Olifantsfontein area as well as environmental GIS databases.

A detailed description of the site-specific environmental attributes will be updated during the impact assessment phase.

14 Undertaking of Oath by the EAP

Section 16 (1) (b) (iv), and Appendix 3 Section 2 (j) of the EIA Regulations, 2014 and amended in 2021 (promulgated in terms of the NEMA), require an undertaking under oath or affirmation by the EAP in relation to:

- The correctness of the information provided in the report;
- The inclusion of comments and inputs from stakeholders and I&APs;
- Any information provided by the EAP to I&APs and any responses by the EAP to comments or inputs made by I&APs; and
- The level of agreement between the EAP and I&APs on the Plan of Study for undertaking the EIA.

SRK and the EAPs managing this project hereby affirm that:

- To the best of our knowledge the information provided in the report is correct, and no attempt has been made to manipulate information to achieve a particular outcome. Some information, especially pertaining to the project description, was provided by the applicant and/or their sub-contractors. In this respect, SRK's standard disclaimer pertaining to information provided by third parties applies.
- To the best of our knowledge all comments and inputs from stakeholders and I&APs have been captured in the report and no attempt has been made to manipulate such comment or input to achieve a particular outcome. Written submissions are appended to the report while other comments are recorded within the report. For the sake of brevity, not all comments are recorded verbatim, and in instances where many stakeholders have made similar comments, they are grouped together, with a clear listing of who submitted which comment(s).
- Information and responses provided by the EAP to I&APs are clearly presented in the report. Where responses are provided by the applicant (not the EAP), these are clearly indicated.
- With respect to EIRs, SRK will take account of I&APs' comments and, insofar as comments are relevant and practicable, accommodate these during the EIA/EMPr process.

15 Conclusions and Recommendations

The aim of this Scoping Report is to provide an indication of the identified, positive, and negative environmental and socio-economic impacts associated with the proposed project activities. The proposed project will be located within an existing warehouse in Olifantsfontein. This site is zoned as Industrial and is in line with proposed project description. Where required, local individuals will be preferably employed as this will be the most economically viable option. UPL is currently storing its goods in Pomona, where UPL has been renting a warehouse. However, the lease agreement between UPL and the Pomona warehouse owner is expiring, and the owner is opting to sell the warehouse. In addition, the warehouse that UPL has been renting in Pomona is not zoned correctly and UPL has over the years requested the warehouse owner to sort out the zoning issues with no success.

UPL is involved in the manufacture, supply and marketing of agrochemicals, industrial chemicals, chemical intermediates, and specialty chemicals worldwide. The agro-business is the company's primary source of revenue and includes the manufacture and marketing of conventional agrochemical products, seeds, and other agricultural-related products. The non-agro segment includes manufacturing and marketing industrial chemicals and other non-agricultural products such as fungicides, herbicides, insecticides, plant growth regulators, rodenticides, industrial & specialty chemicals, and nutrifeeds. Not implementing the project will mean that UPL OpenAg will not have the requires storage space for their materials that are required by other businesses and will impact on UPL's ability to supply the required materials and chemicals to businesses that require them. Should the project not proceed, UPL may be forced to reduce its staff complement due to reduced business prospects, resulting in negative socio-economic impacts.

The stakeholder engagement in the Scoping Phase was intended to invite stakeholders to register as interested and affected parties in order to allow them to give input in determining possible impacts and allowing their concerns to be adequately addressed in the Impact Assessment Phase of the EIA process. The Scoping Report has presented:

- The environmental process undertaken so far;
- A brief description of the proposed project;
- A baseline description of the current environment;
- The potential environmental and social impacts identified to date; and
- The recommended environmental process to be followed to develop the EIA/EMPr Report.

Once the Scoping Report has been accepted by the GDARD, a draft EIR, including a Draft EMPr, will be compiled and subjected to a round of public comment. The EIR will then be submitted to the authorities for decision-making. On submission of the EIR and EMPr to GDARD, notification will be sent to registered I&APs to inform them of the submission of the documents; and the opportunity to request copies of the Final reports.

Anticipated environmental, social, and cultural impacts have been identified and described in Section 12. Extensive consideration has been given to the proposed location and design of the project and no fatal flaws have been identified during scoping phase. The DFFE environmental screening tool was used to identify the required specialist studies. The preliminary assessment of the DFFE environmental screening report for the proposed project (very high, high, and medium sensitivity) shows that paleontological, aquatic assessment as well as terrestrial biodiversity specialist studies will be required. However, it is the opinion of the EAP, that none of these studies will be required since the proposed development does not include any construction activities and the warehouse is located in already developed and built-up industrial area, limiting potential impacts to the environment. An MHI

risk assessment will be undertaken as part of the process. Where required, UPL will undertake an application with the municipality to register as an MHI.

The EAP team will be responsible for the identification and assessment of potential impacts that will result from the operation of the proposed project. The EAP team will also identify mitigation measures and monitoring requirements that will ensure that the potential environmental impacts are avoided and/or minimised.

16 References

Bootsma, A, 2016. *Proposed Clayville x45 Residential Development, Ekurhuleni, Gauteng Province: Wetland/Riparian Delineation and Functional Assessment,* s.l.: Limosella Consulting Pty Ltd.

Botha, T.,Thomas, J., and Stein, G, 2018. *Proposed development of the Clayville Thermal Plant in the Clayville Industrial Area, Gauteng Province,* s.l.: Savannah Environmental.

City of Ekurhuleni , 2018. *City of Ekurhuleni Annual Report 2017/18.* [Online] Available at: https://www.ekurhuleni.gov.za/about-the-city/annual-reports/ [Accessed 03 February 2023].

City of Ekurhuleni, 2022. *City of Ekurhuleni Draft Annual Report 2021/22.* [Online] Available at: https://www.ekurhuleni.gov.za/about-the-city/annual-reports/[Accessed 03 February 2023].

Ekurhuleni Metropolitan Municipality, 2008. *Biodiversity Report,* Ekurhuleni Metropolitan Municipality: Local Action for Biodiversity (LAB).

Macfarlane, D.M., Kotze, D.C., Ellery, W.N., Walters, D., Koopman, V., Goodman, P. & Goge,, 2009. *WET-Health: A technique for rapidly assessing wetland health,,* s.l.: Water Research Commission.

Meteoblue, 2023. *Weather Olifantsfontein.* [Online] Available at: https://www.meteoblue.com/en/weather/week/olifantsfontein_south-africa_968296 [Accessed 03 February 2023].

Mucina, L. & Rutherford, M., 2006. *The vegetation of South Africa, Lesotho and Swaziland.* Pretoria: South African National Biodiversity Institute.

SAHRA, 2023. *SAHRIS.* [Online] Available at: https://sahris.sahra.org.za/map/palaeo [Accessed 03 February 2023].

Snyman, I., and Kritzinger, A, 2021. *SOCIO ECONOMIC IMPACT ASSESSMENT FOR THE OLIFANTSFONTEIN LANDFILL SITE, EKURHULENI METROPOLITAN MUNICIPALITY, GAUTENG,* s.l.: Southern Economic Development and Batho Earth.

Statistics South Africa, 2023. *StatsSA.* [Online] Available at: https://www.statssa.gov.za/?page_id=1021&id=ekurhuleni-municipality [Accessed 03 February 2023].

TerraAfrica Consult cc, 2020. *Soil and Agricultural Assessment for the Mn48 Project.* [Online] Available at: https://sahris.sahra.org.za/sites/default/files/additionaldocs/Appendix%20F_%20Soil%20and%20Agricultural%20Assessment.pdf [Accessed 03 February 2023].

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Partner

All data used as source material plus the text, tables, figures, and attachments of this document have been reviewed and prepared in accordance with generally accepted professional engineering and environmental practices.

Appendices

Appendix A: CVs of the Project Team

Manda Hinsch

Partner / Principal Scientist

Profession	Water and Environmental Scientist
Education	BSc (Hons), Water Utilisation, University of Pretoria, 1993 BSc, Biochemistry & Chemistry, University of Johannesburg (former RAU), 1982
Registrations/ Affiliations	Pr Sci Nat (South Africa), 400164/09 Member, FWISA
Awards	Finalist in Woman in Water Awards (2003) Water and Environmental Scientist

Specialisation

Project management and coordination of environmental impact assessments, Environmental management programme, Water use licence applications and specialist inputs for mining and industrial projects. Water quality management, Water allocation, Water use efficiency; Waste management, Policy and strategy development in the water environment; Policy implementation, Water resource management.

Expertise

Manda Hinsch is a Water and Environmental Management expert with history of supplying exemplary services working per project or for employers both in Southern Africa and Africa in the Mining, Industrial and Regulatory sectors. She has developed skills over 39 years in supporting and advising clients in legal compliance, developing policy and stratgy, applying for authorizations, assessing water and environmental risk, managing public consultation processes, and providing sustainable mitigation solutions . Manda excels as a team player in multidisciplinary projects and is ready to apply all skills and their benefits to any project with customer driven results.

Highlights

- Management of a multi-disciplinary project teams
- Knowledge of environmental legislation requirements
- Evaluation of specialist reports to integrate environmental risk
- Water Resource management to facilitate water allocation reform
- Water quality management for all industries and mines
- Water conservation and demand management for industries and local governments
- Integrated water monitoring plans
- Interpretation of water quality in terms of different water users
- Water use authorizations applications
- Environmental authorizations applications
- Integrated catchment management plans considering all water users
- Integrated Water and Waste Management Plans
- Development of policies for government's relating to all water, environment, and waste aspects
- Site auditing for compliance
- Conducting processes to obtain water and environmental authorisations, including the associated public participation processes;
- Water reform strategies and reallocation of water. Development of policies for implementing water allocation reform (WAR) in South Africa with associated pilot implementation;
- Evaluation of impacts and management through the issuing of Water Use Authorisations and the management of hazardous and solid waste for industrial, mining water and waste water systems;

Manda Hinsch

Partner / Principal Scientist

- Implementation and policy development in water and related fields particular focus on water quality management in urban and informal areas and agriculture;
- Development of waste management strategies;
- Institutional development in the water sector- establishment of Catchment Management Agency;
- contributing towards research projects by participation in Steering Committees, e.g., Development of Classification System, 2010 Water Quality Standards etc.;
- Development and implementation of water and environmental legislation and policy;
- Development and implementation of policy and strategy on pollution from urban areas.

Employment

Jan 2008 - present	SRK Consulting (Pty) Ltd, Water Scientist, Pretoria
Aug 1993 - Dec 2007	Department of Water Affairs, Deputy Director: Water Quality Management, Pretoria
1991 - 1993	Bergman & Partners Inc. Consulting Engineers, Senior Consultant< Johannesburg
1988 - 1991	Waste Tech, Hazardous Waste Consultant, Germiston
1983 - 1988	Council for Mineral Technology, (Mintek), Research Assistant, Johannesburg
1981 - 1983	UCOR, Technical Officer, Pelindaba

Publications

Selected publications and contribution to professional reports, and study tours

Languages

English – read, write, speak (Excellent)

Afrikaans – read, write, speak (Excellent)

Manda Hinsch

Partner / Principal Scientist

Publications:

1. Garduño, H. and Hinsch, M. (2005) *IWRM Implementation in South Africa: Redressing Past Inequities and Sustaining Development with a View to the Future*. World Bank Institute, Washington, DC.
2. Chiew, F.H.S. / McMahon **Pegram**, G.C. / Quibell, G. / **Hinsch**, M. | 1999.Modelling runoff and **diffuse pollution** loads in urban areas. 1999. Gedruckte Ausgabe. 291.

Manda Hinsch

Partner / Principal Scientist

Key Experience: Policy and Strategy

Location:	Mbombela, Mpumalanga, South Africa
Project duration & year:	2012
Client:	Aurecon for the ICMA
Name of Project:	451039 ICMA AMD Strategy
Project Description:	The development of a proactive strategy/ management plan in respect of mining related pollution of water resources for the Inkomati Water Management Area
Job Title and Duties:	Water Quality Specialist
Value of Project:	R 240 000
Location:	Nkomati and Mputo Basins (South Africa Swaziland and Mozambique)
Project duration & year:	2009 - 2011
Client:	PRIMA, TPTC
Name of Project:	Progressive Realisation of the Incu Maputo Agreement, Development of a Disaster management Plan for the catchments
Project Description:	Development of a water disaster management plan for the two catchments. The objective of the assignment was to prepare sets of comprehensive disaster preparedness, implementation and management plans, protocols and decision support systems for each of the identified basins to mitigate the possible effects of floods, droughts and major pollution accidents.
Job Title and Duties:	Leading Consultant in the team for the Water Quality Component
Value of Project:	R5 800
Location:	South Africa
Project duration & year:	2003
Client:	Department of Water and Sanitation
Name of Project:	Development of policy strategies and guidelines for the Water Allocation Reform programme
Project Description:	Water allocation reform is being implemented by the South African Department of Water Affairs and Forestry (DWAF), through the Water Allocation Reform (WAR) Programme. . In order to address these challenges, the Department of Water Affairs and Forestry have recently commenced a project, with financial assistance from the United Kingdom's Department for International Development, to review existing and develop alternative approaches to water allocation in South Africa... The approach integrates water use data with environmental, economic and equity data to provide a holistic picture of the progress and benefits of WAR
Job Title and Duties:	Project Manager and specialist input
Value of Project:	R 25 000

Manda Hinsch

Partner / Principal Scientist

Key Experience: Policy and Strategy

Location:	South Africa
Project duration & year:	2000
Client:	Water Research Commission
Name of Project:	The Development of a Guide to assess the Non-Point Source Pollution of Surface Water Resources in South Africa
Project Description:	The scope and complexity of the topic led to the project being conceived in three phases. C Phase I was to perform a Situation Assessment of the current state of knowledge about non-point sources and their assessment in South Africa, A Situation Assessment. Project Working Document. C Phase II involved a series of case studies to evaluate and illustrate the application of assessment techniques in South Africa, presented in: Guide to Non-point Source Assessment Phase III was to develop the Guide itself - this document represents the culmination of this phase and the project as a whole.
Job Title and Duties:	Specialist input
Value of Project:	R 300 000
Location	South Africa
Project duration & year:	1996 - 1999
Location:	Department of Water Affairs and Forestry
Name of Project:	Development of a Strategy to Manage Water Quality Impacts in the Urban sector
Project Description:	This project developed the Structured-Facilitated approach to identifying the underlying causes of pollution in densely populated settlements in South Africa. The main outcome of this project was the National Strategy to Manage the Water Quality Effects of Settlements, which describes DWAF's plans to roll out the structured-facilitated approaches in South Africa, as well as an assessment of the main causes of pollution in these settlements. The project also tested the approaches in some 12 Test Cases, and the results from these settlements have shown that it is possible to identify sustainable solutions to problems when communities and service providers work together.
Job Title and Duties:	Project Manager and specialist input
Value of Project:	R 3 000
Location:	Mpumalanga
Project duration & year:	12 months
Client:	Inkomati Usutu Catchment Management Agency
Name of Project:	528972 IUCMA Pollution Management Plan
Project Description:	SRK Consulting (Pty) Ltd was appointed by the Inkomati-Usuthu Catchment Management Agency (IUCMA) for the provision of professional services on an as and when required basis. The appointment was for the environmental pollution remediation implementation plan in the Lomati sub-system. The aim of the study was to identify and assess water pollution sources in the catchment with the view to prioritise and develop strategies to manage and rehabilitate polluted areas in the Lomati sub system and to provide information which can be easily communicated to the water users in the catchment. The study included: • Identification of sources of pollution; • Classification of sources of pollution into point and non-point sources; • Verification of the legality of pollution sources; and Risk assessment of pollution sources to downstream users.
Job Title and Duties:	Project Manager and specialist input
Value of Project:	R 500 000

Manda Hinsch

Partner / Principal Scientist

Key Experience: Integrated water - and environmental management

Location:	Kendal, Mpumalanga
Project duration & year:	2021
Client:	ESKOM
Name of Project:	568217 Monthly surface and quarterly groundwater monitoring
Project Description:	Water quality analysis and interpretation of water quality results following water quality sampling
Job Title and Duties:	Project Manager and reporter
Value of Project:	R1 500 000
Location:	Rustenburg, North West Province, South Africa
Project duration & year:	2020
Client:	Anglo Rustenburg Base Metal Refinery
Name of Project:	557214 Basic Assessment Report for the construction and operation of the proposed Reverse Osmosis Plant at Anglo's Rustenburg Base Metals Refiner
Project Description: Job	RBMR intended to construct and operate a Reverse Osmosis (RO) plant The RO plant will service the boiler feed water, MC Plant cold well top up and the demineralisation plant. The construction and operation of the proposed RO plant triggered activities listed in Government Regulation Notice (GNR) 983 which required an Environmental Authorisation (EA) from the North West Department of Economic Development, Environment, Conservation and Tourism (DEDECT). There is an existing softener plant located where the RO plant will be constructed, which will need to be decommissioned to make way for the RO plant. The decommissioning and closure of the softener plant also triggers activities in GNR 983 and required authorisation from the DEDECT. The impact assessment was undertaken in a Basic Assessment (BA) process the required Public participation process was also conducted
Title and Duties:	Project Reviewer and specialist input
Value of Project:	R 570 000
Location:	Rustenburg, North West, South Africa
Project duration & year:	2020 - 2021
Client:	Rustenburg Base Metals Refiners (RBMR)
Name of Project:	561608 Application for an Environmental Authorisation for the proposed Relocation of the Acid Plant at Anglo American Platinum's
Project Description:	Rustenburg Base Metals Refiners (RBMR) requires reagents in support of processing applications at their Magnetic Concentrator (MC) Plant and BMR plants. The chemicals are received, stored and distributed from a centralised Bulk Chemical Storage facility. However, continuous leaks and loss of bund integrity led to the contamination of the area's substrate resulting in heaving of the foundations, therefore the reagent storage area need to be relocated. The proposed project will therefore require an Environmental Authorisation (EA)
Title and Duties:	Project Reviewer and specialist input
Value of Project:	R 800 000
Location:	Northern Cape, South Africa
Project duration & year:	2020
Client:	GoodRock ChemWorks Pty Ltd
Name of Project:	553917 Goodrock WULA
Project Description:	Water Use Licence Application for Section 21 (b) and (g) Water Uses Associated with the GoodRock Operations
Value of Project:	R 200 000

Manda Hinsch

Partner / Principal Scientist

Key Experience: Integrated water - and environmental management

Location:	Rustenburg, North West, South Africa
Project duration & year:	2020
Client:	Royal Bafokeng Platinum
Name of Project:	550401 RBPlat RSIP
Project Description:	Rehabilitation Strategy and Implementation Programme for Royal Bafokeng Platinum (Pty) Ltd Maseve Platinum Mine in Compliance with the Water Use License
Job Title and Duties:	Project Review
Value of Project:	R 83 000

Location:	Eastern Cape Province, South Africa
Project duration & year:	2019 - 2020
Client:	Tshashu Consultants
Name of Project:	536558 Environmental Authorisation for the proposed dam to be located on the Msikaba River,
Project Description:	SRK Consulting (South Africa) (Pty) Ltd was appointed by Tshashu Consulting and Project Managers (TS) to conduct a water supply feasibility study for 85 villages within Wards 22, 23, 24, 25 and 28 in Ingquza Hill Local Municipality. These wards are located within the OR Tambo District Municipality. The feasibility study included a hydrological assessment and a yield analysis to determine the available yield in Msikaba and Mzamba Rivers as well as Xura and Kwa-Dlamba Rivers (tributaries of Msikaba River) and to identify the best option that would ensure adequate water supply to the communities. The study concluded that a dam with a capacity of approximately 1000 Mℓ located on the Msikaba River will be required for water supply to the communities. The project requires a Water Use Licence (WUL) from the Department of Water and Sanitation (DWS) for the construction of the dam, the abstraction of water from the river as well as construction within 100 m of a water course. SRK submitted a quotation for a WUL application process. However, the project also triggers activities listed in Listing Notices of the National Environmental Management Act, 1998 (Act 107 of 1998) and will require an Environmental Authorisation (EA) from the Eastern Cape Department of Economic Development, Environmental Affairs and Tourism (DEDEAT)
Job Title and Duties:	EAP
Value of Project:	R 200 000

Location:	Eastern Cape Province, South Africa
Project duration & year:	2019 - 2020
Client:	Tshashu Consultants
Name of Project:	536558 Environmental Authorisation for the proposed dam to be located on the Msikaba River,

Manda Hinsch

Partner / Principal Scientist

Key Experience: Integrated water - and environmental management

Location:	Makhado Local Municipality, Limpopo, South Africa
Project duration & year:	2018
Client:	Universal Coal Development V (Pty) Ltd
Name of Project:	535300 Mining Right Application for Cygnus Coal Mining Area
Project Description:	(UCDV) was granted a Prospecting Right over the Cygnus 549 MS property and was required to apply for a mining right in respect of coal mining at the property. The project required authorisation in terms of the National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA). The application was made, coordination of specialists and public participation process was conducted
Job Title and Duties:	Project Reviewer
Value of Project:	R 4 500 000
Location:	Mpumalanga, South Africa
Project duration & year:	2018 - 2019
Client:	Exxaro Coal Central
Name of Project:	534406 EIA/EMP for Dorstfontein Coal Mine (DCM) West new proposed activities namely discard dump, underground mining and conveyor belt
Project Description:	Exxaro Coal Central (ECC) operates five mines, namely Forzando North, Forzando South, Dorstfontein West Mine, Dorstfontein East Mine and Tumelo Mines. All mines are underground operations except Dorstfontein East Mine which is an opencast mine. The discard dump at Dorstfontein West is coming to the end of its life and a new dumping facility which were required by 2022. Furthermore, the installation of a conveyor belt from Dorstfontein West to East was also planned Three options for the transportation of coal from Dorstfontein West to Dorstfontein East are being considered including making use of the existing provincial road assess with trucks, overland conveyor with service road from DCM West to DCM East or use of haul road from DCM West to DCM East. The project required various environmental legal applications to be submitted and approved before activities commence in these areas. SRK Consulting South Africa (SRK) undertook the Environmental Authorisation (EA) processes including Environmental Impact Assessment (EIA)/Waste Management Licence/Environmental Management Plan (EMP) and Integrated Water Use License Application (IWULA).
Job Title and Duties:	Project Manager and reviewer
Value of Project:	R 25 000
Location:	Emfuleni, Gauteng, South Africa
Project duration & year:	2017 – 2021
Client:	SABLock
Name of Project:	539766 Emfuleni Ash dump: undertaking Water Use Licence Application
Project Description:	SA Block (Pty) Ltd recently received the right to reclaim the clinker resource of the Emfuleni Ash dump. The property belongs to the Emfuleni Local Municipality. It is envisaged that the operation to reclaim the dump should extend for 10 years. Afrimat requires water for the reclamation operation and the best source would be from the groundwater. SRK Consulting (SA) Pty (LTD) undertook the Water Use Licence Application in terms of Section 21 (a) of the National Water Act (Act 36 of 1998) for the abstraction of ground water
Job Title and Duties:	Project Reviewer
Value of Project:	R 250 000

Manda Hinsch

Partner / Principal Scientist

Key Experience: Integrated water - and environmental management

Location:	Phalaborwa, Limpopo, South Africa
Project duration & year:	2017 - 2021
Client:	Foskor (Pty) Ltd
Name of Project:	512277 Biannual Ground Water Monitoring
Project Description:	Monitoring of 52 boreholes biannually
Job Title and Duties:	Water Quality analysis and Project Manager
Value of Project:	R 1 500 000
Location:	Vierfontein in Free State
Project duration & year:	2017- 2021
Client:	Afrimat
Name of Project:	539915 Vierfontein WULA
Project Description:	Afrimat recently received the right to reclaim the clinker resource of the Vierfontein Ash dump. The property belongs to the Emfuleni Local Municipality. It is envisaged that the operation to reclaim the dump should extend for 10 years. Afrimat requires water for the reclamation operation and the best source would be from the groundwater. This is therefore a proposal from SRK Consulting (SA) Pty (LTD) undertook the Water Use Licence Application in terms of Section 21 (a) of the National Water Act (Act 36 of 1998) for the abstraction of ground water.
Contact Details	Bruno Penzhorn 082 560 2597 bruno.penzhorn@afrimat.co.za
Job Title and Duties:	Project Reviewer
Value of Project:	R 180 000
Location:	Rustenburg, North West, South Africa
Project duration & year:	2017
Client:	Royal Bafokeng Platinum
Name of Project:	523640 Basic Assessment Environmental Application and Water Use License for the Proposed Transportation of Ore via an Overland Conveyor Belt from the Styldrift Mine Complex to a Neighbouring Mine
Project Description:	SRK Consulting (South Africa) (Pty) Ltd has been requested by Royal Bafokeng Platinum Limited (RBPlat) to submit a proposal to undertake the necessary Environmental Authorisation (EA) application processes for the construction of an overland conveyor belt from the Styldrift Mine Complex to a neighbouring mine. The existing conveyor belt is covered under existing EAs in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA), Mineral Petroleum Resources Act (Act No. 28 of 2002) (MPRDA) and the National Water Act (Act No. 36 of 1998) (NWA). The new proposed conveyor belt will be tying into the existing conveyor belt system for the transportation of ore to a neighbouring mine.
Job Title and Duties:	Project Reviewer
Value of Project:	R 1 100
Location:	All Days, Limpopo, South Africa
Project duration & year:	2017
Client:	Universal Coal
Name of Project:	Berenice Review of Environmental Documents
Project Description:	Mine in process of obtaining Environmental Authorisation. SRK requested to review the documents and ensure process compliance by the appointed EAPS
Job Title and Duties:	Project Manager and Document Reviewer
Value of Project:	R 300 000

Manda Hinsch

Partner / Principal Scientist

Key Experience: **Integrated water - and environmental management**

Location:	Rustenburg, North West, South Africa
Project duration & year:	2017 - 2022
Client:	Royal Bafokeng Platinum
Name of Project:	454591 Environmental Authorisation for Mining Infrastructure
Project Description:	Undertaking of the Environmental Authorisation and public participation processes to comply with the regulatory requirements
Job Title and Duties:	Project Manager and Document Reviewer
Value of Project:	R 100 000
Reference	**C von Alleman** **chrisnava@bafokengplatinum.co.za** **+27 (0) 81 011 2039** **+27 (014) 573-1664**

Location:	Gauteng, South Africa
Project duration & year:	2016 - 2017
Client:	DPW WCDM
Name of Project:	501960-Assessment of Water Distribution Infrastructure and Development of Water Conservation and Demand Management at the 6 Correctional Services Facilities in Gauteng
Project Description:	The primary objectives of this study were: • The identification and then implementation of Water Conservation and Demand Management Measures, • The identification of Water Efficiency Measures Development of Water Efficiency Strategy
Job Title and Duties:	Specialist Water Consultant and Project Manager
Value of Project:	R 1 800

Location:	Ekurhuleni, Gauteng, South Africa
Project duration & year:	2016
Client:	Ekurhuleni Metro
Name of Project:	498275 Upgrading of the Boksburg Lake
Project Description:	The rehabilitation of the Boksburg Lake with the associated application for Water and Environmental Authorisations. Various options for rehabilitation designs were to be developed. A catchment water quality monitoring programme was developed and followed. Extensive public participation is required beyond what legislation requires.
Job Title and Duties:	Environmental Authorisation and Extensive Public Participation Management and implementation
Value of Project:	R 2 800

Location:	Northern Gauteng, South Africa
Project duration & year:	2016 –2018
Client:	Department of Public Works
Name of Project:	489454 10 WWTW upgrades
Project Description:	The primary objectives of this study were: • To address poor performance of 9 waste water treatment plants and one water treatment plant. These plants have a history of poor green drop scores for various reasons. • The project entailed the upgrading of the works to comply with regulations. This included the application of Water Use Licences and Environmental Authorisations where applicable
Job Title and Duties:	Specialist Water and Environmental Consultant
Value of Project:	R 20 000

Manda Hinsch

Partner / Principal Scientist

Key Experience: Integrated water - and environmental management

Location:	Johannesburg Braamfontein Spruit, South Africa
Project duration & year:	2014 - 2017
Client:	JRA
Name of Project:	490423 Water Use and Environmental Authoristions
Project Description:	Undertaking of the Environmental Authorisation and public participation processes to comply with the regulatory requirements
Job Title and Duties:	Project Manager and Document Reviewer
Value of Project:	R 100 000

Location:	Mbombela, Mpumalanga, South Africa
Project duration & year:	2014 - 2015
Client:	471550 IZUSA Transport
Name of Project:	S24 G Application in terms of the NEMA for construction activities undertaken without authorisation
Project Description:	The primary objectives of this study were to negotiate with the relevant authority for 24G approval Various activities were undertaken prior to obtaining authorisation. Application was made to MDARDLEA for a Section 24 G. Public partition was also undertaken
Job Title and Duties:	Project manager and specialist
Value of Project:	R 250 000

Location:	Emlahleheni, Mpumalanga, South Africa
Project duration & year:	2014 - 2016
Client:	Universal Coal
Name of Project:	483409 Environmental Authorisation and EMP amendment for the Roodekop and NCC project
Project Description:	The New Clydesdale Colliery (NCC) Mining Right Area previously owned by Exxaro Coal Mpumalanga (Pty) Ltd. was bought by Universal Coal PLC. It was proposed to expand the approved Roodekop opencast mining area onto the Farm Diepspruit, (previously NCC). As such it was required to undertake an application for Environmental Authorisation prior to the commencement of construction activities. It is proposed to establish an opencast mining area of approximately 150 ha on the Farm Diepspruit, Farm 41 IS. Most associated infrastructure exists, and the proposed development will link into the existing infrastructure network. Project included the following: • Specialist management and review of specialist studies. Compilation of application process for the authorisation in terms of the NEMA EIA Regulations; • Consolidated Scoping Report with the inclusion of the Roodekop extension area; • Consolidated Environmental Impact Assessment Report with the inclusion of the Roodekop extension area; and • Consolidated Environmental Management Programme with the inclusion of the Roodekop extension area. • Compilation of application process for the authorisation in terms of Section 102 of the MPRDA; and • Stakeholder engagement in terms of the NEMA, NEMWA, MPRDA and NWA requirements, including of advertisements in two local/regional newspapers.
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R 10 000

Manda Hinsch

Partner / Principal Scientist

Key Experience: Integrated water - and environmental management

Location:	Phalaborwa, Limpopo, South Africa
Project duration & year:	2014
Client:	Foskor (Pty) Ltd
Name of Project:	457190 Foskor WUL Audit
Project Description:	Annual External Audit in compliance with Water Use Authorisation
Job Title and Duties:	Auditor and reporter
Value of Project:	R 80 000
Location:	Limpopo and Western Cape, South Africa
Project duration & year:	2013 - 2014
Client:	Department of Environment Affairs
Name of Project:	462372 - Licencing of 64 Unlicenced Municipal Waste Disposal Facilities in 2013/14 Fiscal Year
Project Description:	SRK Consulting was appointed to conduct the Environmental Impact Assessment (EIA) process and manage the Waste Licence applications (WLA) for various municipal waste disposal facilities located in the following areas: (a) Western Cape Provinces; and (b) Limpopo, To conduct the Environmental Impact Assessment (EIA) process and manage the Waste Management Licence (WML) applications for various municipal waste disposal facilities located in Limpopo. 6 Sites were allocated of which Project Management and Execution was undertaken EAP and Specialist Environmental Consultant
Job Title and Duties:	EAP Project Manager, Reviewer
Value of Project:	R 3 852 574
Location:	Mpumalanga, South Africa
Project duration & year:	2013 - 2016
Client:	Exxaro
Name of Project:	467209 -Environmental Authorisation for the Construction of the Proposed Belfast Railway Siding, Haul Road, Pollution Control Dam, and Associated Infrastructure,
Project Description:	SRK Consulting compiled an Environmental Impact Assessment (EIA), Environmental Management Plan (EMP) and Integrated Water Use license Application (IWULA) for the proposed railway siding, haul road, coal loading area and pollution control dam. Three locations were investigated for the suitability for construction of the railway siding and haul road: • Sunbury; • Belfast; and • Rietkuil. According to the National Environmental Management Act (Act No 107 of 1998) (NEMA) and General Notice (GN) 543 printed in terms of the NEMA, a number of listed activities were triggered requiring a Scoping Environmental Authorization and Water Use Authorisation prior to construction.
Job Title and Duties:	Project Manager, Reviewer and Specialist input
Value of Project:	R 2 500

Manda Hinsch

Partner / Principal Scientist

Key Experience — Integrated Water – Environmental Management

Location:	Eastern Cape, South Africa
Project duration & year:	2013 – 2015
Client:	BVI Consulting
Name of Project:	Skoenmakers River Rehabilitation
Project Description:	Public Consultation, Environmental Authorisation from DARD and DWS for upgrading of River Bridges and rehabilitating the eroded rivers.
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R 100 000
Location:	Mbombela, Mpumalanga, South Africa
Project duration & year:	2013 – 2014
Client:	Aurecon
Name of Project:	Water Requirements and Availability Reconciliation Strategy for the Mbombela LM
Project Description:	The primary objectives of this study were: • To address the growing water demands as well as the water quality problems experienced in the catchment; • To assess the current water availability and water deficit/surplus; • To identify resource management and development options, and • To recommend and sequence reconciliation interventions, both management and structural.
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R 100 000
	Vlakfontein, Mpumalanga, South Africa
Location:	2012 – 2016
Client:	African Exploration, Mining and Finance Company
Name of Project:	492186 Environmental Authorisation for EMP Amendment, IWULA and EIA for the Vlakfontein Phase 2 Coal Mining Area
Project Description:	The primary objectives of this study were: • To investigate of the area to be affected; • To undertake the relevant specialist studies that were required to undertake the EIA, IWULA and EMP process; • Conclusion of the processes to obtain the respective authorisations To conduct public participation with interested and affected parties including the authorities;
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R 250 000
Location:	Mpumalanga , South Africa
Project duration & year:	2012
Client:	Department of Water Affairs
Name of Project:	444360 Mbombela Water Reconciliation
Project Description:	Evaluation of the water quality requirements and impacts of water quality on the water users for the greater Mbombela Reconciliation Study
Job Title and Duties:	Water Quality Specialist
Value of Project:	R 120 000

Manda Hinsch

Partner / Principal Scientist

Key Experience — Integrated Water – Environmental Management

Location:	Chaneng Area, Rustenburg, North West, South Africa
Project duration & year:	2012 -
Client:	Royal Bafokeng Platinum
Name of Project:	Styldrift # 2 Shaft Environmental Authorisations
Project Description:	The primary objectives of this study were: • To investigate of the area to be affected; • To undertake the relevant specialist studies that were required to undertake the EIA, IWULA and EMP process; • Conclusion of the processes to obtain the respective authorisations • To conduct public participation with interested and affected parties including the authorities
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R 20 000

Location:	Thabazimbi, Limpopo, South Africa
Project duration & year:	2012 – 2014
Client:	Exxaro Resources
Name of Project:	449006 Specialist Hydrological Study for the proposed ThabaMetsi Mine
Project Description:	The proposed Thaba Metsi project needed to apply for an Environmental Impact Assessment (EIA) and Environmental Management Programme (EMP) according to the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002) (MPRDA), and according to the National Environmental Management Act (Act no 107 of 1998) and the associated listed activities listed under regulation GN 544 and GN 545 of 2010. An Integrated Water Use License application, according to the National Water Act (Act no 36 of 1998), is also required in order to apply for the water uses on all operations within the surface area of the proposed Thaba Metsi mining area. SRK Consulting was awarded the responsibility of undertaking the specialist hydrological study with regard to the proposed Thaba Metsi mining area.
Job Title and Duties:	Water Quality Specialist
Value of Project:	R 2 249 121

Location:	Northam, South Africa
Project duration & year:	2011 - 2013
Client:	Anglo Platinum
Name of Project:	430521 Rustenburg Platinum Mine Union Section - Ventilation Shaft Environmental Management Programme Amendment
Project Description:	Union Section was planning to develop seven additional ventilation shafts at their operation close to Northam. Ventilation shafts were required to bring the return air from underground to the surface. SRK Consulting has been approached by RPM – Union Section to undertake the necessary environmental authorisation application requirements for the additional required ventilation shafts in accordance with the Mineral and Petroleum Resources Development Act (MPRDA) (No. 28 of 2002) and the National Environmental Management Act (NEMA) (Act 107 of 1998). An Environmental Impact Assessment (EIA)/Environmental Management Plan (EMP) is required for the environmental authorisation.
Job Title and Duties:	Project Manager and EAP
Value of Project:	R 444 899

Manda Hinsch

Partner / Principal Scientist

Key Experience — Integrated Water – Environmental Management

Location:	Gauteng West Rand, South Africa
Project duration & year:	2011 – 2012
Client:	West Rand District Council
Name of Project:	Preparation and development of a feasibility study for the water conservation and demand management strategy for the West Rand
Project Description:	This project has been motivated in terms of: • Reconciling supply and future demand • Water resources and environmental protection • Financial viability for water services delivery • Postponing capital infrastructure requirements • Threat posed at the aim of achieving sustainable and affordable services delivery to low income areas • The increase loss of income to municipalities and • The increase in the direct cost of distribution losses
Job Title and Duties:	Specialist Consultant
Value of Project:	R 700 000

Location:	Limpopo and Mpumalanga, South Africa
Project duration & year:	2009 - 2011
Client:	DWA
Name of Project:	Northern Regions Small Towns Water Reconciliation Study
Project Description:	Development of water reconciliation options for small towns, including assessing impacts of water conservation
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R 800 000

Location:	Mogalakwena Municipality, Limpopo, South Africa
Project duration & year:	2008 – 2009
Client:	Mogalakwena Municipality
Name of Project:	Environmental Authorisation for the pipeline for bulk water supply.
Project Description:	Obtaining an environmental authorisation for the bulk water supply pipeline from Flag Bosheillo dam to the municipality from the relevant authority. Specialist studies for the project included biodiversity and aquatic evaluations which were performed by specialists in this field
Job Title and Duties:	Project Manager and technical advisor
Value of Project:	R 600 000

Ndomupei Masawi

Principal Environmental Scientist

Profession	Environmental Scientist
Education	MSc., IWRM, *in progress* PGDip., IWRM, 2020 MS., Geo-Information and Earth Observation for Environmental Management, the Netherlands, 2007 BSc (Hons), Environmental Sciences, Forest Resources and Wildlife Management, National University of Science and Technology (Zimbabwe), 2005
Registrations/ Affiliations	Pr.Sci.Nat, 400045/14 EAPASA, 2020/401 Member, PGIS Member, IAIAsa
Awards	None

Specialisation

Geographic information system (GIS) services, EIAs, WULAs, Water resource management and water quality assessments.

Expertise

Ndomupei has more than 15 years of integrated environmental management and project management experience. Her experience includes compiling environmental management programmes, undertaking public participation processes, providing geographic information system (GIS) services and undertaking the processes and assessments to support applications for environmental authorisations, water use licences, waste management licences and air emission licences, for roads, railway lines, power stations, airports, dams, housing developments, schools in South Africa, Tanzania, Botswana, Lesotho, Zimbabwe and Uganda. Her expertise includes:

- environmental impact assessments.
- environmental management programmes.
- waste management plans and licenses.
- integrated water and waste management plans (IWWMPs).
- waste classification.
- water use license applications.
- water quality assessments and impact assessments.
- GIS and remote sensing.
- basic assessment reports.
- section 24 G applications.
- risk assessments.
- public participation process.
- project management and coordination.

Employment

2019 – present	SRK Consulting (Pty) Ltd, Principal Environmental Scientist, Pretoria
2016 – 2019	SRK Consulting (Pty) Ltd, Senior Environmental Scientist, Pretoria
2008 – 2016	ILISO Consulting Environmental Management (Pty) Ltd, Environmental Scientist and GIS Specialist, Centurion
2007 – 2007	ITC/Government of Tanzania Project, Biodiversity Conservation, GIS and Remote Sensing Specialist on the Ruvu Forest project, Bagamoyo, Tanzania
2005 – 2006	Southern Alliance for Indigenous Resources (SAFIRE), Assistant Ecologist, Harare, Zimbabwe
2003 – 2004	Southern Alliance for Indigenous Resources (SAFIRE), Ecologist, Harare, Zimbabwe

Publications

None

Languages

English – read, write, speak

Shona – read, write, speak

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	North West, South Africa
Project duration & year:	2021 –Ongoing
Client:	Anglo American Platinum RBMR
Name of Project:	RBMR Surge Tank Capacity Expansion
Project Description:	Application for an Environmental Authorization and for the proposed expansion of surge tank capacity at RBMR
Job Title and Duties:	Project Manager
Value of Project:	R 280 000

Location:	Mpumalanga, South Africa
Project duration & year:	2021 – Ongoing
Client:	Eskom Kendal Power Station
Name of Project:	Water quality monitoring at Kendal Power Station
Project Description:	Quarterly Groundwater and Monthly Surface Water quality monitoring at Kendal Power Station
Job Title and Duties:	Water Quality Specialist
Value of Project:	R 1.1m

Location:	Mpumalanga, South Africa
Project duration & year:	2020
Client:	Universal Coal (Pty) Ltd
Name of Project:	Ndalamo Closure Liability Review
Project Description:	Ndalamo Closure Liability Review
Job Title and Duties:	Project Manager
Value of Project:	R 400 000

Location:	North West, South Africa
Project duration & year:	2020
Client:	Anglo American Platinum RBMR
Name of Project:	RBMR Reverse Osmosis Plant
Project Description:	Application for an Environmental Authorization and for the proposed construction and operation of a Reverse Osmosis Plant at RBMR
Job Title and Duties:	Project Manager
Value of Project:	R 400 000

Location:	North West, South Africa
Project duration & year:	2020 – Ongoing
Client:	Anglo American Platinum RBMR
Name of Project:	RBMR Bulk Chemical Plant Relocation
Project Description:	Application for an Environmental Authorization for the proposed relocation of a bulk chemical storage facility at RBMR; and NEMA Emergency Application for the proposed relocation of a bulk chemical storage facility at RBMR
Job Title and Duties:	Project Manager
Value of Project:	R 800 000

Location:	North West, South Africa
Project duration & year:	2019 – Ongoing
Client:	Harmony Gold Mining Company Limited
Name of Project:	Stormwater Management Plan and Design for Kalgold expansion project
Project Description:	Stormwater Management Plan and Design for Kalgold expansion project
Job Title and Duties:	Project Manager
Value of Project:	R 500 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Gauteng, South Africa
Project duration & year:	2019 – Ongoing
Client:	Department of Public Works
Name of Project:	Upgrade and refurbishment of the Baviaanspoort Pipeline
Project Description:	Application for an Environmental Authorization and Water Use Authorisation for the proposed refurbishment of the Baviaanspoort Wastewater Pipeline
Job Title and Duties:	Application for an EA and Water Use Authorisation and compilation of the supporting technical report and Basic Assessment Report and EMPr
Value of Project:	R 500 000
Location:	Mpumalanga, South Africa
Project duration & year:	2019 – Ongoing
Client:	Inkomati-Usuthu Catchment Management Agency (IUCMA)
Name of Project:	Pollution Management in the IUCMA
Project Description:	Assessment of pollution sources and legality f water use in the Lower Lomati River Catchment
Job Title and Duties:	Water Specialist, identification of pollution sources, assessment of legality of water uses in the Lower Lomati Catchment and identification of strategies to manage pollution sources
Value of Project:	R 300 000
Location:	Limpopo, South Africa
Project duration & year:	2018 – Ongoing
Client:	Universal Coal Development V (Pty) Ltd (UCDV)
Name of Project:	Mining Right Application for the proposed coal mine at Cygnus 549MS
Project Description:	Application for a mining right and associated applications for an Environmental Authorisation, Waste Management Licence and Water Use Authorisation for the proposed green fields coal mine at Cygnus 549MS, Makhado Local Municipality
Job Title and Duties:	Project Manager. Roles include management of the specialists and budget, compilation of the Scoping Report, the EIAR/EMPr and the IWWMP for the Water Use Licence Application
Value of Project:	R 4.5 million
Location:	Eastern Cape, South Africa
Project duration & year:	2018 – Ongoing
Client:	Tshashu Consulting and Project Managers (TS)
Name of Project:	Feasibility Studies for the proposed Msikaba Water Supply Project
Project Description:	Application for a Water Use Authorisation for the proposed dam on the Msikaba River
Job Title and Duties:	Application for a Water Use Authorisation and compilation of the supporting technical report
Value of Project:	R 1.7 million
Location:	Mpumalanga, South Africa
Project duration & year:	2020 – Ongoing
Client:	Anglo American Platinum RBMR
Name of Project:	Environmental Authorisation for the construction and operation of a Reverse Osmosis Plant at Anglo's RBMR Plant
Project Description:	Application for an Environmental Authorisation for the construction and operation of a Reverse Osmosis Plant at Anglo's RBMR Plant
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Application, Stakeholder Engagement BA Report
Value of Project:	R 400 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Sasolburg, South Africa
Project duration & year:	2018 – Ongoing
Client:	Sasol South Africa (Pty) Ltd
Name of Project:	Waste Management Licence Application for the decommissioning of the FAD6 cement-ash mixing plant
Project Description:	Application for a Waste Management Licence Application decommissioning of the FAD6 cement-ash mixing plant
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Application, Scoping and EIA Report
Value of Project:	R 500 000

Location:	Sasolburg, South Africa
Project duration & year:	2018 – Ongoing
Client:	Sasol South Africa (Pty) Ltd
Name of Project:	Basic Assessment for Sasol Tankfarm Tanks Project
Project Description:	Application for an Environmental Authorisation for Sasol's Clean Fuels (2) Tankfarm Tanks Project
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Application, Basic Assessment Report, Project Coordination
Value of Project:	R 600 000

Location:	Gauteng and Mpumalanga, South Africa
Project duration & year:	2018 – Ongoing
Client:	Department of Public Works
Name of Project:	Water Use Licence Application for the upgrade and refurbishment of DPW's Wastewater Treatment Works
Project Description:	Application for a Water Use Licence for the upgrade and refurbishment of DPW's 10 Wastewater Treatment Works in Gauteng and Mpumalanga
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Application and Technical Reports
Value of Project:	R 2.0 million

Location:	Sasolburg, South Africa
Project duration & year:	2018 – Ongoing
Client:	Sasol South Africa (Pty) Ltd
Name of Project:	Waste Management Licence Application for the construction and operation of FAD6 cement-ash mixing plant
Project Description:	Application for a Waste Management Licence Application for the proposed FAD6 cement-ash mixing plant
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Application, Scoping and EIA Report
Value of Project:	R 400 000

Location:	Gauteng, South Africa
Project duration & year:	2018
Client:	First Land Developments
Name of Project:	Zwavelpoort Housing Development
Project Description:	Water Use Licence Application for a Housing Development in Zwavelpoort, Pretoria
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Water Use Licence Technical Report and application forms for the proposed Housing Development in Zwavelpoort, Pretoria
Value of Project:	R 150 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Sasolburg, South Africa
Project duration & year:	2018
Client:	Sasol South Africa (Pty) Ltd
Name of Project:	Water Use Licence Application for powerlines at Sasol's Sasolburg Plant
Project Description:	Water Use Licence Application for powerlines at Sasol's Sasolburg Plant
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the phase 1 and 2 of the WUL Application
Value of Project:	R 100 000

Location:	Gauteng, South Africa
Project duration & year:	2018
Client:	Hernic Ferrochrome Mine
Name of Project:	External Audit for the Hernic Mine Water Use Licence
Project Description:	External Audit for the Hernic Mine Water Use Licence
Job Title and Duties:	External Auditor
Value of Project:	R 40 000

Location:	Gauteng, South Africa
Project duration & year:	2018
Client:	Triakon Engineering Consulting (Pty) Ltd
Name of Project:	Environmental Screening for the proposed housing development in Eldorado
Project Description:	Environmental Screening for the proposed housing development in Eldorado
Job Title and Duties:	Environmental Screening for the proposed housing development in Eldorado
Value of Project:	R 20 000

Location:	Limpopo, South Africa
Project duration & year:	2018
Client:	Foskor (Pty) Ltd
Name of Project:	Groundwater Monitoring for Foskor
Project Description:	Annual Groundwater Monitoring for Foskor
Job Title and Duties:	Water Specialist: Assessment of Groundwater Results and compilation of the groundwater monitoring report for the year 2017-2018
Value of Project:	R 120 000

Location:	Free State, South Africa
Project duration & year:	2017 – 2018
Client:	Manyeleti Consulting (Pty) Ltd
Name of Project:	Manyeleti Prospecting Right Application
Project Description:	Application for a prospecting right for coal in the Free State Province
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, Public Participation Process, Project coordination
Value of Project:	R 400 000

Location:	Mpumalanga, South Africa
Project duration & year:	2017 – 2018
Client:	Exxaro Coal
Name of Project:	Environmental Authorisation processes at Exxaro Coal Central (ECC) Dorstfontein East Coal Mine
Project Description:	Application for a Water Use Licence for the expansion of the Dorstfontein East Coal Mining Operation
Job Title and Duties:	Compilation of the Integrated Water and Waste Management Plan.
Value of Project:	R 400 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Limpopo, South Africa
Project duration & year:	2017
Client:	Universal Coal
Name of Project:	Application for an Environmental Authorisation for the establishment of the Berenice Coal Mine in Limpopo
Project Description:	Review of the Environmental Authorisation Processes and Documentation for the Berenice Coal Project
Job Title and Duties:	Review of reports, process coordination and providing technical support to the EIA team.
Value of Project:	R 400 000
Location:	Johannesburg Gauteng
Project duration & year:	2016 – 2018
Client:	Johannesburg Roads Agency (JRA)
Name of Project:	Braamfontein Spruit Rehabilitation Study
Project Description:	Rehabilitation study for the Braamfontein Spruit
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Water Use Licence Technical Report and application forms, environmental impact assessment of the identified remedial measures, water quality assessment of the Braamfontein Spruit, conducting the public participation process and management of environmental specialists.
Value of Project:	R 5.5 million
Location:	Ekurhuleni, Gauteng, South Africa
Project duration & year:	2016 – Ongoing
Client:	Ekurhuleni Local Municipality
Name of Project:	Boksburg Lake Rehabilitation Plan and Associated Authorisations
Project Description:	Compilation of a rehabilitation plan and conducting of the associated environmental authorisation application processes
Job Title and Duties:	Environmental Specialist. Environmental Status Quo and water quality Assessment of the Boksburg Lake and Boksburg Lake catchment, Stakeholder Engagement, Environmental Impact Assessment of the identified remediation measures, undertaking the applications for required environmental permits (environmental authorisation and water use licence) for the remediation measures.
Value of Project:	R 2.3million
Location:	Rustenburg North West, South Africa
Project duration & year:	2016 – Ongoing
Client:	Omnia Fertilizers
Name of Project:	Decommissioning of the Omnia Fertilizers-Rustenburg Factory
Project Description:	Application for an Environmental Authorisation and Waste Management Licence for the decommissioning of the Omnia Fertilizers-Rustenburg Factory.
Job Title and Duties:	Environmental Assessment Practitioner. Application for the amendment of Omnia's Water Use Licence, Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists.
Value of Project:	R 300 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Witbank, Mpumalanga, South Africa
Project duration & year:	2016
Client:	Eskom Holdings
Name of Project:	Construction of a water supply pipeline at the Duvha Power Station
Project Description:	Application for an Environmental Authorisation for the construction of a water supply pipeline at the Duvha Power Station.
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists.
Value of Project:	R 400 000
Location:	Eastern Cape, South Africa
Project duration & year:	2016
Client:	Eastern Cape Department of Roads and Public Works
Name of Project:	EIA/EMP for the construction of an office precinct in Bhisho
Project Description:	Compilation of an EIA/EMP and application for General Authorisation
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists
Value of Project:	R 700 000
Location:	Limpopo, South Africa
Project duration & year:	2016
Client:	Tango Consultants
Name of Project:	Application for mining permits for Borrow Pits in the Babanana Village in Limpopo
Project Description:	Application for mining permits for Borrow Pits in the Babanana Village in Limpopo
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists
Value of Project:	R 700 000
Location:	Eastern Cape, South Africa
Project duration & year:	2015 - 2016
Client:	Somlolo Steel Manufacturing (Pty) Ltd
Name of Project:	EIA for the proposed 200 000 ton/Year Steel Galvanizing Plant within the Coega IDZ
Project Description:	EIA for the proposed 200 000 ton/Year Steel Galvanizing Plant within the Coega IDZ
Job Title and Duties:	Environmental Assessment Practitioner. Conducting the EIA process for the proposed steel galvanizing plant, including compilation of the scoping, EIR and EMPr, management of the specialists and conducting the public participation process.
Value of Project:	R 500 000
Location:	Mpumalanga, South Africa
Project duration & year:	2015 – 2016
Client:	Trans- Caledon Tunnel Authority (TCTA)
Name of Project:	Emergency Water Pipeline for the Komati Water Augmentation Project (KWSAP)
Project Description:	Environmental Impact Assessment for the proposed Emergency Water pipeline between the KWSAP pipeline and Kriel Water Treatment Plant.
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists.
Value of Project:	R 300 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Mpumalanga, South Africa
Project duration & year:	2015 – 2016
Client:	TCTA
Name of Project:	Komati Water Scheme Augmentation Project (KWSAP)
Project Description:	Application for amendments to the Environmental Authorisation for the KWSAP.
Job Title and Duties:	Environmental Assessment Practitioner. Drafting the application and supporting information reports, conducting the public participation process and management of specialists.
Value of Project:	R 350 000
Location:	Secunda, Mpumalanga, South Africa
Project duration & year:	2015
Client:	Sasol
Name of Project:	Development of an Integrated Water and Wastewater Plan for Sasol's Charlie One Landfill Site in Secunda
Project Description:	Development of an Integrated Water and Wastewater Plan for Sasol's Charlie One Landfill Site in Secunda
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Integrated Water and Wastewater Plan
Value of Project:	R 100 000
Location:	Mpumalanga, South Africa
Project duration & year:	2013 - 2015
Client:	Eskom Holdings
Name of Project:	Construction of infrastructure across rivers and wetlands at the Kusile Power Station
Project Description:	Application for an Environmental Authorisation for the crossing of rivers and wetlands at the Kusile Power Station
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists
Value of Project:	R 200 000
Location:	Doringkloof, Gauteng, South Africa
Project duration & year:	2014
Client:	City of Tshwane
Name of Project:	City of Tshwane Flood Management
Project Description:	Application for an Environmental Authorisation for the construction within the Doringkloof. The project entailed the upgrade of river crosses along the Doringkloof Spruit
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists
Value of Project:	R 150 000
Location:	South Africa
Project duration & year:	2014
Client:	Eskom Holdings
Name of Project:	Application for exemption and postponement of the Minimum Air Emission Standards
Project Description:	Water Resources Assessment for the Eskom Power Stations as part of the application for exemption and postponement of the Minimum Air Emission Standards
Job Title and Duties:	Environmental Scientist – Conducting the assessment of the water requirements for Eskom's Power Station
Value of Project:	R 2 million

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Sasolburg, Free State, South Africa
Project duration & year:	2013
Client:	Sasol
Name of Project:	Water Use Licence Application for Sasol One and Midland Sites
Project Description:	Water Use Licence Application for Sasol One and Midland Sites
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.
Value of Project:	R 400 000

Location:	Mpumalanga, South Africa
Project duration & year:	2012 - 2014
Client:	Eskom Holdings
Name of Project:	Integrated Application for an Environmental Authorisation and Waste Management Licence for the 10-year Hazardous Waste Disposal Site at the Kusile Power Station
Project Description:	Integrated Application for an Environmental Authorisation and Waste Management Licence for the 10-year Hazardous Waste Disposal Site at the Kusile Power Station
Job Title and Duties:	Environmental Assessment Practitioner. Conducting the EIA process for the proposed hazardous waste facility, including compilation of the scoping, EIR and EMPr, management of the specialists and conducting the public participation process.
Value of Project:	R 1.9 million

Location:	Pretoria, Gauteng, South Africa
Project duration & year:	2012 - 2013
Client:	City of Tshwane
Name of Project:	Application for an Environmental Authorisation and Water Use Licence for the upgrade and expansion of the Baviaanspoort Wastewater Treatment Works
Project Description:	Water Use Licence Application for the upgrade and expansion of the Baviaanspoort Wastewater Treatment Works
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.
Value of Project:	R 200 000

Location:	North West, South Africa
Project duration & year:	2012 - 2013
Client:	Department of Water and Sanitation
Name of Project:	Marico River catchment
Project Description:	Groundwater Quality Assessment for the Marico River catchment
Job Title and Duties:	Water Quality Specialist. Collection of groundwater quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the groundwater quality report. GIS and Mapping.
Value of Project:	R 400 000

Location:	Pretoria, Gauteng, South Africa
Project duration & year:	2012 - 2013
Client:	City of Tshwane
Name of Project:	Application for an Environmental Authorisation and Water Use Licence for the upgrade and expansion of the Baviaanspoort Wastewater Treatment Works
Project Description:	Surface Water Quality Impact Assessment for the upgrading and expansion of Baviaanspoort WWTW
Job Title and Duties:	Water Quality Specialist. Collection of water quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the water quality report. GIS and Mapping.
Value of Project:	R 100 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	North West, South Africa
Project duration & year:	2012 - 2013
Client:	Department of Water and Sanitation
Name of Project:	Marico River catchment
Project Description:	Assessment of the impact of the Zeerust Wastewater Treatment Works on the Marico River Catchment water quality.
Job Title and Duties:	Water Quality Specialist. Collection of data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the report. GIS and Mapping.
Value of Project:	R 100 000
Location:	Gauteng and Free State, South Africa
Project duration & year:	2012
Client:	RowingSA
Name of Project:	South African National Rowing Venue
Project Description:	Environmental Screening for the proposed new South African Rowing Venue.
Job Title and Duties:	Environmental Assessment Practitioner. Drafting the Environmental Screening report, GIS and mapping.
Value of Project:	R 50 000.
Location:	Mpumalanga, South Africa
Project duration & year:	2011 - 2012
Client:	Eskom Holdings
Name of Project:	Section 24 G Application for the Kusile Power Station
Project Description:	Section 24 Application for the construction of roads across rivers and wetlands at the Kusile Power Station
Job Title and Duties:	Public Participation Process Specialist. Conducting the public participation process for the Section 24 G process and compiling the public participation report. GIS and mapping.
Value of Project:	R 300 000
Location:	Dinokeng, Gauteng, South Africa
Project duration & year:	2011
Client:	Dinokeng
Name of Project:	Environmental Screening for the Boekenhoutskloof Airstrip development.
Project Description:	Environmental Screening for the Boekenhoutskloof Airstrip development.
Job Title and Duties:	Environmental Assessment Practitioner. Drafting the Environmental Screening report, GIS and mapping.
Value of Project:	R 100 000
Location:	Katse, Lesotho
Project duration & year:	2011 - 2011
Client:	Lesotho highlands Development Agency (LHDA)
Name of Project:	Environmental Impact Assessment for the Kobong Pump Storage Scheme
Project Description:	Environmental Impact Assessment for the Kobong Pump Storage Scheme
Job Title and Duties:	Public Health Specialist. Conducting the public health impact assessment. GIS and Mapping
Value of Project:	R 2 million

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Free State, South Africa
Project duration & year:	2010
Client:	Department of Water and Sanitation
Name of Project:	Bloemfontein Reconciliation Strategy Project.
Project Description:	Water Quality Assessment for the Bloemfontein Reconciliation Strategy Project.
Job Title and Duties:	Water Quality Specialist. Collection of water quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the water quality report. GIS and Mapping
Value of Project:	R 300 000
Location:	Limpopo and Mpumalanga, South Africa
Project duration & year:	2010
Client:	Department of Water and Sanitation
Name of Project:	Olifants River Reconciliation Strategy Project.
Project Description:	Water Quality Assessment for the Olifants River Reconciliation Strategy Project.
Job Title and Duties:	Water Quality Specialist. Collection of water quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the water quality report. GIS and Mapping
Value of Project:	R 300 000
Location:	Chobe District, Botswana
Project duration & year:	2010
Client:	Botswana Department of Water Affairs
Name of Project:	Environmental Impact Assessment for the construction of a water supply pipeline in the Chobe District of Botswana
Project Description:	Environmental Impact Assessment for the construction of a water supply pipeline in the Chobe District of Botswana
Job Title and Duties:	Human Geography Specialist – Conducting the impact assessment of the pipeline on human geography.
Value of Project:	R 4 million
Location:	Centurion, Gauteng, South Africa
Project duration & year:	2009 – 2010
Client:	Bombela Consortium
Name of Project:	Construction of the Gautrain Rapid rail Link
Project Description:	Amendment Application for the Gautrain Rapid Rail Link for the Technopark viaduct.
Job Title and Duties:	Environmental Assessment Practitioner. Drafting the application and supporting information reports, conducting the public participation process and management of specialists.
Value of Project:	R 300 000
Location:	Soshanguve, Gauteng, South Africa
Project duration & year:	2009
Client:	Gauteng Department of Housing
Name of Project:	Water Use Licence Application for the construction of a road across rivers and streams in Soshanguve HH-JJ area
Project Description:	Water Use Licence Application for the construction of a road across rivers and streams in Soshanguve HH-JJ area
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.
Value of Project:	R 120 000

Ndomupei Masawi

Principal Environmental Scientist

Key Experience: Environmental management and GIS

Location:	Mpumalanga and Gauteng, South Africa
Project duration & year:	2008 - 2013
Client:	Department of Water and Sanitation
Name of Project:	Electronic Water Quality Management System (eWQMS)
Project Description:	Electronic Water Quality Management System (eWQMS)
Job Title and Duties:	Provincial Team Leader for Gauteng and Mpumalanga Provinces Ensuring that the municipalities submit their monthly water quality and wastewater information to the Department via the eWQMS. Assisting municipalities with technical queries.
Value of Project:	R 5 million
Location:	Alexandra, Gauteng, South Africa
Project duration & year:	2008 - 2009
Client:	Johannesburg Roads Agency (JRA)
Name of Project:	Water Use Licence Application for the construction of gabions on the Jukskei River and the construction of a bridge across the Jukskei River.
Project Description:	Water Use Licence Application for the construction of gabions on the Jukskei River and the construction of a bridge across the Jukskei River.
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.
Value of Project:	R 90 000
Location:	Botswana, South Africa and Namibia
Project duration & year:	2008 - 2009
Client:	ORASECOM
Name of Project:	Feasibility Study of the potential for sustainable water resources development in the Molopo-Nossob watercourse
Project Description:	Feasibility Study of the potential for sustainable water resources development in the Molopo-Nossob watercourse
Job Title and Duties:	GIS Specialist. Data collection, database creation and management, mapping.
Value of Project:	R 3 million

Vusimuzi Masango

Environmental Consultant

Profession	Technical Assistant
Education	BA (Hons), Environmental Management, University of South Africa; in progress BA, Environmental Management, University of South Africa; 2021 ND, Agricultural Science (Animal Science), Tshwane University of Technology, 2012
Registrations/ Affiliations	EAPASA, 2019/1601 Member, IAIAsa
Awards	None

Specialisation

EIAs, WULAs; Groundwater sampling and Surface water sampling and water quality assessments.

Expertise

Vusimuzi Masango has obtained experience in the field stakeholder engagement during the past 8 years. He has coordinated various stakeholder engagement consultation processes for Environmental and Social Impact Assessments for government and the private sector. His expertise includes:

- Technical support to the environmental impact assessments Process.
- Technical support to the environmental management programmes.
- Technical support to the waste management plans and licenses.
- Technical support to the integrated water and waste management plans (IWWMPs) process.
- Technical support to the water use license applications process.
- Technical support to water quality assessments and impact assessments
- Technical support to basic assessment reports process.
- Groundwater and Surface Water Monitoring (Sampling) and
- Public participation process

Employment

2019 – present	SRK Consulting (Pty) Ltd, Technician, Pretoria
2015 – 2018	SRK Consulting (Pty) Ltd, Technical Assistant, Pretoria
2012 – 2015	SRK Consulting (Pty) Ltd, Admin Support, Pretoria
2012 – 2012	Samca Tiles (Pty) Ltd, Process Controller, Gauteng
2011 – 2011	Kanhym Estates, Process Controller, Middelburg

Publications

None

Languages

English – read, write, speak
Setswana – read, write, speak
South Sotho - read, write, speak
Sepedi – read
South Sotho - read, speak

Vusimuzi Masango

Environmental Consultant

Key Experience: Stakeholder Engagement and Environmental Management Support

Location:	North West, South Africa
Project duration & year:	2021 – Ongoing
Client	Anglo American Platinum RBMR
Name of Project:	RBMR Surge Tank Capacity Expansion
Project Description:	Application for an Environmental Authorization and for the proposed expansion of surge tank capacity at RBMR
Job Title and Duties:	Public Participation and Administration
Value of Project:	R 280 000

Location:	Mpumalanga, South Africa
Project duration & year:	2021 – Ongoing
Client:	Eskom Kendal Power Station
Name of Project:	Water quality monitoring at Kendal Power Station
Project Description:	Quarterly Groundwater and Monthly Surface Water quality monitoring at Kendal Power Station
Job Title and Duties:	Sample Collection/Field Work
Value of Project:	R 1.1 million

Location:	North West Province, South Africa
Project duration & year:	2020
Client:	Anglo American Platinum RBMR
Name of Project:	RBMR Reverse Osmosis Plant
Project Description:	Application for an Environmental Authorization and for the proposed construction and operation of a Reverse Osmosis Plant at RBMR
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 400 000

Location:	North West , South Africa
Project duration & year:	2020 – Ongoing
Client:	Anglo American Platinum RBMR
Name of Project:	RBMR Bulk Chemical Plant Relocation
Project Description:	Application for an Environmental Authorization for the proposed relocation of a bulk chemical storage facility at RBMR; and NEMA Emergency Application for the proposed relocation of a bulk chemical storage facility at RBMR
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 800 000

Location:	Mpumalanga, South Africa
Project duration & year:	2020 – Ongoing
Client:	Anglo American Platinum RBMR
Name of Project:	Environmental Authorisation for the construction and operation of a Reverse Osmosis Plant at Anglo's RBMR Plant
Project Description:	Application for an Environmental Authorisation for the construction and operation of a Reverse Osmosis Plant at Anglo's RBMR Plant
Job Title and Duties:	Technical Support to Compilation of the Application; Public Participation and Administration
Value of Project:	R 400 000

Location:	Gauteng, South Africa
Project duration & year:	2019 – Ongoing
Client:	Department of Public Works
Name of Project:	Upgrade and refurbishment of the Baviaanspoort Pipeline
Project Description:	Application for an Environmental Authorization and Water Use Authorisation for the proposed refurbishment of the Baviaanspoort Wastewater Pipeline
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 500 000

Vusimuzi Masango

Environmental Consultant

Key Experience: Stakeholder Engagement and Environmental Management Support

Location:	Coalbrook Free State Province, South Africa
Project duration & year:	2019
Client:	Seriti Coal (Pty) Ltd
Name of Project:	Closure Certificate for the Coal Brook Coal Mine
Project Description:	Closure Certificate for the Coal Brook Coal Mine
Job Title and Duties:	Technical Support to Compilation of reports and assessment in terms of the MPRDA regulations. and application forms
Value of Project:	R 300 000
Location:	Emfuleni, Gauteng Province, South Africa
Project duration & year:	2019
Client:	SA Block (Pty) Ltd
Name of Project:	Water Use License for the proposed abstraction of water from a borehole.
Project Description:	Water Use License Application and Stakeholder Engagement
Job Title and Duties:	Compilation of Water Use License documentation.
Value of Project:	R 100 000
Location:	Vierfontein, Free State Province, South Africa
Project duration & year:	2019
Client:	Clinker Supplies (Pty) Ltd
Name of Project:	Water Use License for the proposed abstraction of water from a borehole.
Project Description:	Technical Support; Public Participation and Administration
Job Title and Duties:	Water Use License Application and Stakeholder Engagement
Value of Project:	R 100 000
Location:	Limpopo, South Africa
Project duration & year:	2018 – Ongoing
Client:	Universal Coal Development V (Pty) Ltd (UCDV)
Name of Project:	Mining Right Application for the proposed coal mine at Cygnus 549MS
Project Description:	Application for a mining right and associated applications for an Environmental Authorisation, Waste Management Licence and Water Use Authorisation for the proposed green fields coal mine at Cygnus 549MS, Makhado Local Municipality
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 4.5 million
Location:	South Africa
Project duration & year:	2018 – Ongoing
Client:	Sasol South Africa (Pty) Ltd
Name of Project:	Basic Assessment for Sasol Tankfarm Tanks Project
Project Description:	Application for an Environmental Authorisation for Sasol's Clean Fuels (2) Tankfarm Tanks Project
Job Title and Duties:	Technical Support to Compilation of the Application; Basic Assessment Report Public Participation and Administration
Value of Project:	R 600 000
Location	South Africa
Project duration & year:	2018 – Ongoing
Client:	Department of Public Works
Name of Project:	Water Use Licence Application for the upgrade and refurbishment of DPW's Wastewater Treatment Works
Project Description:	Application for a Water Use Licence for the upgrade and refurbishment of DPW's 10 Wastewater Treatment Works in Gauteng and Mpumalanga
Job Title and Duties:	Technical Support to Compilation of the Application; Technical Reports and Administration
Value of Project:	R 2.0 million

Vusimuzi Masango

Environmental Consultant

Key Experience: Stakeholder Engagement and Environmental Management Support

Location:	Sasol, South Africa
Project duration & year:	2018 – Ongoing
Client:	Sasol South Africa (Pty) Ltd
Name of Project:	Waste Management Licence Application for FAD6 cement-ash mixing plant
Project Description:	Application for a Waste Management Licence Application for the proposed FAD6 cement-ash mixing plant
Job Title and Duties:	Technical Support to Compilation of the Application; Scoping and EIA Report and Administration
Value of Project:	R 400 000
Location:	Secunda, Mpumalanga Province, South Africa
Project duration & year:	2018
Client:	Sasol South Africa Limited
Name of Project:	Sasol Waste Ash Audits
Project Description:	Technical Support
Job Title and Duties:	Conducting audits on the Sasol waste ashes sites in terms of the waste license as well as sections in terms of the norms and standards for storage of waste.
Value of Project:	R 80 000
Location:	Gauteng, South Africa
Project duration & year:	2018
Client:	First Land Developments
Name of Project:	Zwavelpoort Housing Development
Project Description:	Water Use Licence Application for a Housing Development in Zwavelpoort, Pretoria
Job Title and Duties:	Technical Support to Compilation of the Water Use Licence Technical Report and application forms
Value of Project:	R 150 000
Location:	Gauteng, South Africa
Project duration & year:	2018
Client:	Hernic Ferrochrome Mine
Name of Project:	External Audit for the Hernic Mine Water Use Licence
Project Description:	External Audit for the Hernic Mine Water Use Licence
Job Title and Duties:	External Auditor
Value of Project:	R 40 000
Location:	Free State, South Africa
Project duration & year:	2017 – 2018
Client:	Manyeleti Consulting (Pty) Ltd
Name of Project:	Manyeleti Prospecting Right Application
Project Description:	Application for a prospecting right for coal in the Free State Province
Job Title and Duties:	Technical Support to Compilation of the Basic Assessment Report and Public Participation Process
Value of Project:	N/A
Location:	Mpumalanga, South Africa
Project duration & year:	2017 – 2018
Client:	Exxaro Coal
Name of Project:	Environmental Authorisation processes at Exxaro Coal Central (ECC) Dorstfontein East Coal Mine
Project Description:	Application for a Water Use Licence for the expansion of the Dorstfontein East Coal Mining Operation
Job Title and Duties:	Technical Support to Compilation of the Integrated Water and Waste Management Plan.
Value of Project:	R 400 000

Vusimuzi Masango

Environmental Consultant

Key Experience: Stakeholder Engagement and Environmental Management Support

Location:	Limpopo, South Africa
Project duration & year:	2017
Client:	Universal Coal
Name of Project:	Application for an Environmental Authorisation for the establishment of the Berenice Coal Mine in Limpopo
Project Description:	Review of the Environmental Authorisation Processes and Documentation for the Berenice Coal Project
Job Title and Duties:	Review of reports, process coordination and providing technical support to the EIA team.
Value of Project:	R 400 000
Location:	Rustenburg, North West Province, South Africa
Project duration & year:	2017 - 2018
Client:	Royal Bafokeng Platinum Limited
Name of Project:	Basic Assessment Process for the proposed Styldrift Conveyor Belt extension.
Project Description:	Technical Support to Compilation of the Basic Assessment Report; Public Participation and Administration
Job Title and Duties:	Compilation of reports and assessment in terms of the NEMA regulations.
Value of Project:	R 900 000
Location:	Johannesburg, Gauteng, South Africa
Project duration & year:	2016 – Ongoing
Client:	Johannesburg Roads Agency (JRA)
Name of Project:	Braamfontein Spruit Rehabilitation Study
Project Description:	Rehabilitation study for the Braamfontein Spruit
Job Title and Duties:	Surface water sampling
Value of Project:	R 5.5 million
Location:	Ekurhuleni, Gauteng, South Africa
Project duration & year:	2016 – Ongoing
Client:	Ekurhuleni Local Municipality
Name of Project:	Boksburg Lake Rehabilitation Plan and Associated Authorisations
Project Description:	Compilation of a rehabilitation plan and conducting of the associated environmental authorisation application processes
Job Title and Duties:	Support to Compilation of the Basic Assessment Report; Public Participation and Administration
Value of Project:	R 2.3million
Location:	Mpumalanga, South Africa
Project duration & year:	2016
Client:	Universal Coal Investments
Name of Project:	Environmental Management Plan consolidation for the Roodekop Mining Area
Project Description:	EMP Amendment and Consolidation for the Roodekop Mining Area
Job Title and Duties:	Technical Support and Administration
Value of Project:	R 300 000

Vusimuzi Masango

Environmental Consultant

Key Experience: Stakeholder Engagement and Environmental Management Support

Location:	Limpopo, South Africa
Project duration & year:	2015 – 2020
Client:	Foskor (Pty) Ltd
Name of Project:	Groundwater Monitoring for Foskor
Project Description:	Annual Groundwater Monitoring for Foskor
Job Title and Duties:	Field Sampling Assessment of Groundwater Results and compilation of the groundwater monitoring report for the year 2015-2020
Value of Project:	R 120 000
Location:	Rustenburg, North West, South Africa
Project duration & year:	2015 - 2016
Client:	Omnia Fertiliser (Pty) Ltd
Name of Project:	Decommissioning of the Omnia Fertiliser Plant
Project Description:	Environmental Authorisation and Management Plan for the Decommissioning of the Omnia Fertiliser Plant.
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 250 000
Location:	Gauteng, South Africa
Project duration & year:	2015 - 2016
Client:	Seton AuthoLeather (Pty) Ltd
Name of Project:	Commissioning of the Filter Press Plant and decommissioning of the sludge drying beds.
Project Description:	Waste License and Management Plan for the Decommissioning of the sludge drying beds and commissioning of the Filter Press Plant.
Job Title and Duties:	Technical Support to Compilation of the Basic Assessment Report; Public Participation and Administration
Value of Project:	R 250 000
Location:	Gauteng and North West Provinces, South Africa
Project duration & year:	2014 - 2015
Client:	Eskom Holdings SOC Ltd
Name of Project:	Eskom Basic assessment for construction of Substation and Power lines in Hekpoort
Project Description:	SRK Consulting has been consulted by Eskom to conduct a Basic Assessment to get authorisation to construct a substation in Cashan as well as a power line to the existing Hekpoort substation.
Job Title and Duties:	Technical Support in compilation of the Basic Assessment; Public Participation and Administration
Value of Project:	R 600 000.00
Location:	Hammanskraal; Gauteng, South Africa
Project duration & year:	2014 - 2016
Client:	Eskom Holdings SOC Limited
Name of Project:	Eskom Kekana Bar
Project Description:	Environmental Authorisation for the proposed Substations and Power Line Project
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 89 310.00

Vusimuzi Masango

Environmental Consultant

Key Experience:	Stakeholder Engagement and Environmental Management Support
Location:	Eastern Cape, South Africa
Project duration & year:	2014 - 2016
Client:	BVI Engineers & Department of Water Affairs (Eastern Cape)
Name of Project:	Skoenmakers River Rehabilitation for the River Crossing.
Project Description:	Environmental Authorisation for the Rehabilitation of River Crossing for Skoenmakers River.
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	N/A
Location:	Rustenburg, North West Province, South Africa
Project duration & year:	2014
Client:	Royal Bafokeng Platinum Limited
Name of Project:	Styldrift No. 2 Shaft Environmental Authorisation and Water Use License
Project Description:	Development of stakeholder database, Stakeholder correspondence (Compiling notification letters; proof reading, editing and formatting of reports and documentation, Preparation and logistics of meetings, maintenance of filing systems according to ISO standards and Compilation of stakeholder correspondence (telephonic, facsimile & e-mail & Sms)
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 3 million
Location:	Rustenburg, North West, South Africa
Project duration & year:	2013 – 2015
Client:	Royal Bafokeng Platinum (Pty) Ltd
Name of Project:	EMPR amendment for the inclusion of portions of the farm Frischgewaagd 96 JQ into the Styldrift Mining Right.
Project Description:	EMPR amendment for the inclusion of portions of the farm Frischgewaagd 96 JQ into the Styldrift Mining Right.
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R 300 000
Location:	Rustenburg, North West, South Africa
Project duration & year:	2013 – 2015
Client:	Royal Bafokeng Platinum (Pty) Ltd
Name of Project:	EIA and EMPR Amendment for the proposed extended Tailings Storage Facility and associated infrastructure.
Project Description:	EIA/EMPR Amendment
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	R1.5 million
Location:	Mpumalanga, South Africa
Project duration & year:	2013 - 2014
Client:	Izusa Carriers (Pty) Ltd
Name of Project:	Izuza BA
Project Description:	The Rectification of Unlawful Commencement or Continuation of a Listed Activity in Terms of S24g Of the National Environmental Management Act, 1998 (Act No. 107 Of 1998); Development of A Truck Depot Facility on Portion 5 Of the Farm Oorsprong 178 Ju; Mpumalanga.
Job Title and Duties:	Technical Support; Public Participation and Administration
Value of Project:	N/A

Vusimuzi Masango

Environmental Consultant

Key Experience: **Stakeholder Engagement and Environmental Management Support**

Location:	Limpopo & Mpumalanga, South Africa
Project duration & year:	2011 - 2012
Client:	National Disaster Management Centre
Name of Project:	Verification of flood damaged infrastructure
Project Description:	GPS based flood damage survey
Job Title and Duties:	Responsible for Data collection
Value of Project:	R 2 400 000,00

Anthoneth Matlala

Junior Environmental Science

Profession	Environmental Scientist
Education	B.Sc. (Hons) Environmental Management, UNISA, 2022 B.Sc. Life and Environmental Science, UJ, 2014
Registrations/ Affiliations	SACNASP, Cand.Nat. Sci. 121047 EAPASA, Cand. EAP, 2020/1161 IAIASA, Member, 6737 WISA, Member, 40484
Awards	None

Specialisation

Environmental Impact Assessments (Basic Assessments, Scoping and EIA's); Environmental Management Programme (EMP); Stakeholder Engagement; Water Use License; Waste Management License, Atmospheric Emission License; Environmental Compliance Audits; Basic GIS Mapping; Project management (MS Projects Planning).

Expertise

Anthoneth Matlala has more than 3 years of integrated environmental management and project management experience. Her experience includes compiling environmental management programmes, undertaking public participation processes, providing basic geographic information system (GIS) services and undertaking the processes and assessments to support applications for environmental authorisations, water use licences, waste management licences and air emission licences, for roads, power lines, power stations, dams, housing developments, schools in South Africa. Her expertise includes:

- Scoping and Environmental Impact Assessments.
- Basic Assessment Reports.
- Section 24 G Applications.
- Environmental Management Programmes.
- Waste Management Licenses.
- Water Use License.
- Environmental Compliance Audits.
- Atmospheric Emission License.
- Stakeholder Engagement and Public Participation Process.
- Project Management and Coordination.

Employment

2022-Present	SRK Consulting (Pty) Ltd, Junior Environmental Scientist, Pretoria
2020-2022	BJ-FC Consulting Engineers cc, Senior Environmental Consultant, Johannesburg & Durban
2019-2020	Sazi Environmental Consulting cc, Junior Environmental Consultant, Johannesburg
2018-2019	Sazi Environmental Consulting cc, Intern Environmental Consultant, Johannesburg

Publications

None

Languages

English – read, write, speak
Sepedi – read, write, speak
IsiZulu – read, speak

Key Experience: Environmental Impact Assessments and Water Use Licenses

Location:	Gauteng, South Africa
Project duration & year:	2022
Client:	Department of Public Works
Name of Project:	The construction and operation of a wastewater pipeline between the Baviaanspoort Correctional Services Facility Pump Station and the Baviaanspoort Municipal Wastewater Treatment Works
Project Description:	Environmental Authorisation application
Job Title and Duties:	Technical Support: Final Basic Assessment report compilation
Value of Project:	Unknown
Location:	Richards Bay Industrial Development Zone, KwaZulu-Natal, South Africa
Project duration & year:	2022 – present
Client:	Nyanza Light Metals (Pty) Ltd
Name of Project:	The proposed 80 ktpa TiO_2 Plant (Phase 2) in the Richard's Bay Industrial Development Zone, KwaZulu-Natal
Project Description:	Obtaining an EA, WUA, WML, and AEL for the proposed project development
Job Title and Duties:	Technical Support – Report writing (IWWMP Report), Application form compilation,
Value of Project:	Unknown
Location:	Scottburgh, KwaZulu-Natal, South Africa
Project duration & year:	2021
Client:	KZN Department of Transport
Name of Project:	The Slip Repair on road P3-1 at Km 69.00, within the eThekwini Metropolitan Municipality, in KwaZulu-Natal Province.
Project Description:	Environmental Authorisation Application for the rehabilitation of slip through installation of gabion and other erosion control infrastructure.
Job Title and Duties:	EA- EAP- Compilation of all EIA documents, liaison with Stakeholders and Competent Authorities, Public Participation Process, GIS services. WUL- Compilation of all Water Use License Reports and Liaison with Competent Authorities.
Value of Project:	Unknown
Location:	Newcastle, KwaZulu-Natal, South Africa
Project duration & year:	2020-2021
Client:	Boomzicht Landgoed (Pty) Ltd t/a Hofina Poultry
Name of Project:	The proposed developments within Vreede 4317/HS Farm in Newcastle Local Municipality, Under Amajuba District Municipality; Kwazulu-Natal
Project Description:	Construction of a Dam, Chicken sheds, Sheep sheds, and associated infrastructure.
Job Title and Duties:	EA- EAP- Compilation of all EIA documents, liaison with Stakeholders and Competent Authorities, Public Participation Process, GIS services. WUL- Compilation of all Water Use License Reports and Liaison with Competent Authorities
Value of Project:	Unknown
Location:	Lothair, Mpumalanga, South Africa.
Project duration & year:	2020
Client:	Transnet SOC Ltd
Name of Project:	The proposed residential area development in Lothair
Project Description:	The relocation of a small residential area located near a railway line 5km from their initial area.
Job Title and Duties:	EA- EAP- Compilation of all EIA documents, liaison with Stakeholders and Competent Authorities, Public Participation Process, GIS services. WUL- Compilation of all Water Use License Reports and Liaison with Competent Authorities
Value of Project:	Unknown

Location:	Tsakane, Gauteng, South Africa
Project duration & year:	2018-2020
Client:	Eskom Holdings SOC Ltd
Name of Project:	The new Madoda substation and 2x 88kV Powerlines
Project Description:	The construction of a substation and 2 Powerlines
Job Title and Duties:	EA- EAP- Compilation of all EIA documents, liaison with Stakeholders and Competent Authorities, Public Participation Process, GIS services. WUL- Compilation of all Water Use License Reports and Liaison with Competent Authorities
Value of Project:	Unknown

Location:	uThukela District Municipality, KwaZulu-Natal, South Africa
Project duration & year:	2019-2020
Client:	Sydwalt (Pty) Ltd
Name of Project:	uThukela District Municipality Springs Protection and Appurtenant Works
Project Description:	Protection of spring/wells with structures, Installation of pipelines (from springs) and reservoir.
Job Title and Duties:	EA- Support to Compilation of the Basic Assessment Report; Public Participation and Administration. WUL- Support to Compilation of all Water Use License Reports.
Value of Project:	R321 247.85

Location:	Esselen Park, Gauteng, South Africa
Project duration & year:	2019
Client:	Complete cycle JV Ilungelo Lami
Name of Project:	Esselen Park Community Clinic
Project Description:	The construction of a community clinic
Job Title and Duties	EA- EAP- Compilation of all EIA documents, liaison with Stakeholders and Competent Authorities, Public Participation Process, GIS services. WUL- Compilation of all Water Use License Reports and Liaison with Competent Authorities.
Value of Project:	

Location:	Reiger Park, Gauteng, South Africa
Project duration & year:	2018-2019
Client:	Zingeni Consulting Engineers
Name of Project:	Reiger Park Primary School
Project Description:	Construction of a primary school, with change of asbestos roofing.
Job Title and Duties:	EA- EAP- Compilation of all EIA documents, liaison with Stakeholders and Competent Authorities, Public Participation Process, GIS services.
Value of Project:	R261 750.00

Location:	Gauteng, South Africa
Project duration & year:	2018-2019
Client:	Silverhorns Consulting
Name of Project:	Rehabilitation of Natalspruit Catchment
Project Description:	Cleaning a river catchment.
Job Title and Duties:	EA- EAP- Compilation of all EIA documents, liaison with Stakeholders and Competent Authorities, Public Participation Process, GIS services. WUL- Compilation of all Water Use License Reports and Liaison with Competent Authorities.
Value of Project:	Unknown

Location:	Roodepoort, Gauteng, South Africa
Project duration & year:	2018-2019
Client:	SECO Projects
Name of Project:	Durban Deep Primary School
Project Description:	Construction of a primary school, with change of asbestos roofing.

Job Title and Duties:	EA- EAP- Compilation of Environmental Management Programme
Value of Project:	Unknown
Location:	Gauteng, South Africa
Project duration & year:	2018-2019
Client:	Rand Water
Name of Project:	The development of the K2 and K3 pipeline.
Project Description:	Construction of pipelines.
Job Title and Duties:	EA- Support to the EAP, Stakeholder engagement, and Liaison with Competent Authorities.
Value of Project:	R211 755.00

Key Experience: Water Use Licenses

Location:	Gauteng, South Africa
Project duration & year:	2022
Client:	Department of Public Works
Name of Project:	The Upgrade of the Centre for Advanced Training (CAT) Wastewater Treatment Plant.
Project Description:	Application for a Water Use Authorisation for the Upgrade of the Centre for Advanced Training (CAT) Wastewater Treatment Plant.
Job Title and Duties:	Technical Support: Water Use License Technical Report Compilation
Value of Project:	Unknown
Location:	Gauteng, South Africa
Project duration & year:	2022
Client:	Department of Public Works
Name of Project:	The upgrades at Baviaanspoort Correctional Services Sewage Pump Station, the Prison Piggery Pre-Treatment Plant, and Baviaanspoort Municipal WWTW.
Project Description:	Application for a Water Use Licence for the upgrades at Baviaanspoort Correctional Services Sewage Pump Station, the Prison Piggery Pre-Treatment Plant, and Baviaanspoort Municipal WWTW.
Job Title and Duties:	Technical Support: Water Use License Technical Report Compilation
Value of Project:	Unknown
Location:	Newcastle, KwaZulu-Natal, South Africa
Project duration & year:	2020-2021
Client:	Rust en Vreede Farming Pty Ltd
Name of Project:	
Project Description:	Construction of chicken sheds and associated infrastructure
Job Title and Duties:	WUL - Compilation of all Water Use License Reports and Liaison with Competent Authorities
Value of Project:	Unknown
Location:	Mpumalanga, South Africa
Project duration & year:	2019
Client:	GreenGab
Name of Project:	Anglo Coal South Africa - Detailed Design of Wetland Interventions for Isibonelo Colliery
Project Description:	Wetland rehabilitation
Job Title and Duties:	WUL (General Authorization)- Compilation of all Water Use License Reports and Liaison with Competent Authorities
Value of Project:	R25 000.00
Location:	Dundee, KwaZulu-Natal, South Africa
Project duration & year:	2018-2019
Client:	Dreykon Trust
Name of Project:	WULA for Ingudlane Lodge, Endumeni Local Municipality
Project Description:	Licensing of existing dams within the Ingudlane Lodge property

Job Title and Duties:	WUL - Compilation of all Water Use License Reports and Liaison with Competent Authorities
Value of Project:	Unknown

Key Experience: Environmental Compliance Audits

Location:	Lichtenburg, Northwest, South Africa
Project duration & year:	2021- ongoing
Client:	ESKOM SOC Ltd
Name of Project:	Re-Routing of 132kv Lines and associated infrastructure at the Watershed substation near Lichtenburg, within Ditsobotla Local Municipality; Northwest Province.
Project Description:	Re-Routing of 132kv Lines and associated infrastructure
Job Title and Duties:	ECO Support - Documentation Review (Weekly and Monthly Audit report review)
Value of Project:	Unknown

Location:	Nkandla, KwaZulu-Natal, South Africa
Project duration & year:	2021- on going
Client:	Department of Transport (KZN)
Name of Project:	The Rehabilitation of P706, within King Cetshwayo District Municipality; Kwazulu-Natal Province.
Project Description:	Construction of P706 route from gravel to asphalt
Job Title and Duties:	ECO - Audit Checklist compilation, Field assessment, and Audit report compilation
Value of Project:	R25 000/ month

Location:	Isipingo, KwaZulu-Natal, South Africa
Project duration & year:	2020
Client:	Department of Transport (KZN)
Name of Project:	Rehabilitation of P197/1 in Isipingo within eThekwini Metropolitan Municipality.
Project Description:	Rehabilitation of the P197/1 route
Job Title and Duties:	ECO Support – Assist in Audit Checklist compilation, Field assessment, and Audit report review.
Value of Project:	Unknown

Key Experience: Waste Management License and Atmospheric Emission License

Location:	Johannesburg, Gauteng, South Africa.
Project duration & year:	2018-2020
Client:	KOPM Group
Name of Project:	Solomon “stix” Morewa Hospital small scale Incinerator
Project Description:	Construction of an incinerator
Job Title and Duties:	EAP- Compiling Waste license application and Atmospheric Emission License forms and supporting documents (EIA process). Liaison Competent Authorities. Public Participation.
Value of Project:	Unknown

Key Experience: Wetland Assessments

Location:	Kriel, Mpumalanga, South Africa
Project duration & year:	2021
Client:	Sasol
Name of Project:	The proposed Rehabilitation of a Sasol 16” Gas Pipeline Washaway in the Mpumalanga Area.
Project Description:	Rehabilitation of a gas pipe, located within a water resource.
Job Title and Duties:	Field Wetland assessment and Delineation, Report compilation, and Risk Matrix Assessment.

Value of Project:	Unknown
Location:	Gauteng, South Africa
Project duration & year:	2021
Client:	Sasol
Name of Project:	The Sasol 12” SOP Defects Verification and Repairs, within the City of Ekurhuleni, Gauteng Province
Project Description:	Rehabilitation of pipeline crossing water resources.
Job Title and Duties:	Field Wetland assessment and Delineation, Report compilation, and Risk Matrix Assessment.
Value of Project:	Unknown
Location:	Kanana Park, Gauteng, South Africa
Project duration & year:	2021
Client:	MVE Consulting Engineers
Name of Project:	The proposed upgrade of gravel roads to surface standard inclusive of associated stormwater, within Kanana Park extension 1 and 2, in Gauteng Province
Project Description:	Installation of stormwater infrastructure
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.
Value of Project:	Unknown
Location:	Ermelo, Gauteng, South Africa
Project duration & year:	2021
Client:	Ndlelenhle Mining and Consulting
Name of Project:	The proposed mining rights areas within Wesselton II, in the Ermelo District; Mpumalanga Province
Project Description:	Application for mining rights
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.
Value of Project:	Unknown
Location:	Lephalale, Limpopo, South Africa
Project duration & year:	2021
Client:	Ndlelenhle Mining and Consulting
Name of Project:	The Proposed Mining Areas in Smithfield 150/LQ, Schoonzicht 192/LQ and Nieuwe Holland 206/LQ Farms, within Lephalale Local Municipality; Limpopo Province.
Project Description:	Application for mining rights
Job Title and Duties:	Field Wetland assessment and Delineation, Report compilation, and Risk Matrix Assessment.
Value of Project:	Unknown
Location:	Mpumalanga, South Africa
Project duration & year:	2021
Client:	Ndlelenhle Mining and Consulting
Name of Project:	The proposed mining rights area application in Portion 4 of De Wittekrans 218/IS Farms, within Msukaligwa Local Municipality; Mpumalanga Province.
Project Description:	Application for mining rights
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.
Value of Project:	Unknown
Location:	Newcastle, KwaZulu-Natal, South Africa
Project duration & year:	2020
Client:	Boomzicht Landgoed (Pty) Ltd t/a Hofina Poultry
Name of Project:	The proposed developments within Vreede 4317/HS Farm in Newcastle Local Municipality, Under Amajuba District Municipality; Kwazulu-Natal
Project Description:	Construction of a Dam, Chicken sheds, Sheep sheds, and associated infrastructure.
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.

Value of Project:	Unknown
Location:	Witbank, Mpumalanga, South Africa
Project duration & year:	2019
Client:	Geo-vicon Environmental (Pty) Ltd
Name of Project:	Witbank 209/IS Farm Wetland Assessment and Delineation
Project Description:	Application for mining rights
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.
Value of Project:	Unknown
Location:	Mpumalanga, South Africa
Project duration & year:	2019
Client:	Geo-vicon Environmental (Pty) Ltd
Name of Project:	Klipfontein 568-JR Farm Wetland Assessment
Project Description:	Application for mining rights
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.
Value of Project:	Unknown
Location:	Mpumalanga, South Africa
Project duration & year:	2019
Client:	Geo-vicon Environmental (Pty) Ltd
Name of Project:	Kromdraai Colliery Wetland Assessment and Delineation Report.
Project Description:	Application for mining rights
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.
Value of Project:	Unknown
Location:	Mpumalanga, South Africa.
Project duration & year:	2019
Client:	Geo-vicon Environmental (Pty) Ltd
Name of Project:	Eyethu Coal Mine Wetland Off-set strategy
Project Description:	Wetland offset strategy
Job Title and Duties:	Support- Compilation of Off-set strategy plans, Field Wetland assessment and Delineation of potential wetlands, and Report compilation.
Value of Project:	Unknown
Location:	uThukela District Municipality, KwaZulu-Natal, South Africa
Project duration & year:	2019
Client:	Sydwalt (Pty) Ltd
Name of Project:	uThukela District Municipality Springs Protection and Appurtenant Works
Project Description:	Protection of spring/wells with structures, Installation of pipelines (from springs) and reservoir.
Job Title and Duties:	Field Wetland assessment and Delineation, and Report compilation.
Value of Project:	Unknown

Key Experience: Biodiversity Assessment

Location:	Scottburgh, KwaZulu-Natal, South Africa
Project duration & year:	2021
Client:	KZN Department of Transport
Name of Project:	The Slip Repair on road P3-1 at Km 69.00, within the eThekwini Metropolitan Municipality, in KwaZulu-Natal Province.
Project Description:	The rehabilitation of slip through installation of gabion and other erosion control infrastructure.
Job Title and Duties:	Field ecological assessment, and Report compilation.
Value of Project:	Unknown
Location:	Middelburg, Mpumalanga, South Africa
Project duration & year:	2020
Client:	Philo Environmental Management

Name of Project:	Biodiversity Assessment for the Mining Area in Graspan Colliery, within the Middelburg Mining Complex; Mpumalanga Province.
Project Description:	Mining rights application.
Job Title and Duties:	Field ecological assessment, and Report compilation.
Value of Project:	Unknown

Location:	Lephalale, Limpopo, South Africa
Project duration & year:	2019
Client:	Ndlelenhle Mining and Consulting
Name of Project:	Biodiversity Assessment for the Proposed Mining areas in Smithfield 150/LQ, Schoonzicht 192/LQ, and Nieuwe Holland 206/LQ.
Project Description:	Mining rights application.
Job Title and Duties:	Field ecological assessment, and Report compilation.
Value of Project:	Unknown

Key Experience: Aquatic Assessment

Location:	Newcastle, KwaZulu-Natal, South Africa
Project duration & year:	2020
Client:	Boomzicht Landgoed (Pty) Ltd t/a Hofina Poultry
Name of Project:	The proposed developments within Vreede 4317/HS Farm in Newcastle Local Municipality, Under Amajuba District Municipality; Kwazulu-Natal
Project Description:	Construction of a Dam, Chicken sheds, Sheep sheds, and associated infrastructure.
Job Title and Duties:	Support – Assist with field assessment and Report review.
Value of Project:	Unknown

Location:	Tongaat, KwaZulu-Natal, South Africa
Project duration & year:	2019
Client:	Pious and Lloyd Environmental Consultants
Name of Project:	Tongaat Aquatic Assessment
Project Description:	Sand mine within a water resource
Job Title and Duties:	Support – Assist with field assessment and Report review.
Value of Project:	Unknown

Marissa Swart

Environmental Scientist

Profession	Environmental Scientist
Education	BSc (Hons) Geography and Environmental Science, University of Pretoria, 2020 BSc Environmental Science, University of Pretoria, 2019
Registrations/ Affiliations	Student, University of Pretoria, 17012148 SACNASP, South Africa, 150943 IAIA, South Africa, 6894 WISA, South Africa, 40489
Awards	Golden Key Award, Exceptional Achievers Award, NATHouse Exemplary Honours Award

Specialisation

Environmental Compliance Audits, Environmental Management Plans, Scoping and Environmental Impact Assessments

Expertise

Marissa has recently started gaining experience in the environmental, mining, and industrial sectors. She has currently been employed for four months. Her expertise includes:

- EMPR compliance audits
- Scoping & EIA

Employment

2022 – present SRK Consulting (South Africa) (Pty) Ltd Environmental Scientist, Pretoria

Publications

None as of yet

Languages

Afrikaans – read, write, speak

English – read, write, speak

Marissa Swart

Environmental Scientist

Key Experience: Environmental Management and Control

Location:	Rustenburg, North West, South Africa
Project duration & year:	1.5 month / 2022
Client:	Royal Bafokeng Platinum Limited
Name of Project:	Maseve Platinum Mine EMPR Audit
Project Description:	Audit compliance to the Maseve Mine EMPR and Environmental Authorisation
Job Title and Duties:	Junior Environmental Scientist
Value of Project:	R
Location:	Boekenhoutskloof Military Bases, Gauteng, South Africa
Project duration & year:	1 month / 2022
Client:	Department of Public Works
Name of Project:	Application for a Water Use Authorisation for the Boekenhoutskloof Wastewater Treatment Works
Project Description:	Obtaining a WUA for the maintenance and refurbishment of the Boekenhoutskloof WWTW
Job Title and Duties:	Junior Environmental Scientist – Report Updating
Value of Project:	R
Location:	Toitskraal Military Base, Mpumalanga, South Africa
Project duration & year:	0.5 month / 2022
Client:	Department of Public Works
Name of Project:	Application for a Water Use Authorisation for the Toitskraal Wastewater Treatment Works
Project Description:	Obtaining a WUA for the maintenance and refurbishment of the Toitskraal WWTW
Job Title and Duties:	Junior Environmental Scientist – Report Updating
Value of Project:	R
Location:	Richards Bay Industrial Development Zone, KwaZulu-Natal, South Africa
Project duration & year:	2022 – present
Client:	Nyanza Light Metals (Pty) Ltd
Name of Project:	Application for Environmental and Water Use Authorisations, Waste Management and Air Emission Licences for the proposed 80 ktpa TiO_2 Plant (Phase 2) in the Richard's Bay Industrial Development Zone, KwaZulu-Natal
Project Description:	Obtaining an EA, WUA, WML, and AEL for the proposed project development
Job Title and Duties:	Technical Support – report writing
Value of Project:	R
Location:	Stilfontein, North West, South Africa
Project duration & year:	2022 – present
Client:	
Name of Project:	Basic Assessments (BAs) for Solar Energy Facilities in the Stilfontein Cluster, Stilfontein, North West Province
Project Description:	Conducting 13 Basic Assessments and a Heritage Approval to establish solar energy facilities in the Klerksdorp Renewable Energy Development Zone (REDZ).
Job Title and Duties:	Put up site notices and deliver pamphlets to local residents.
Value of Project:	R

Appendix B: Project Experience

ESIA

PROJ NO	CLIENT	PROJ DESCRIPTION	SBU	PROJ MNGR	YEAR	PROJ LOCATION	FEE VALUE
ESIA – 2018/2022							
582248	TR TEC COMPOSITES (PTY) LTD	ISIPINGO BEACH	DUR	ANSW	2022	Kwa-Zulu Natal | SA	R99 400.00
579517	SRK CONSULTING (UK) LTD	DUGBE ESIA UPDATE	DUR	BURP	2022	Liberia	R302 686.00
574378	KUDUMANE MANGANESE RESOURCES (PTY) LTD	KMR EXPANSION PROJECT 2021 – SURFACE WATER	JNB	NESE	2022	Northern Cape | SA	R2 225 338.50
573385	MINERAL SANDS RESOURCES (PTY) LTD	DE PUNT BASELINE	CPT	REUT	2022	Western Cape | SA	R603 237.50
576133	MINERAL SANDS RESOURCES (PTY) LTD	MSR TORMIN STRATEGIC EA	CPT	DALC	2022	SA	R195 102.50
573534	OCEAN GROUP (LTD)	OCEANA SPV EIA	CPT	ARMK	2022	SA	R268 860.00
558820	SRK CONSULTIN CONGO SPL	KCC ESIA 2020 UPDATE	DUR	KING	2022	DRC	R2 554 650.00
514949	ANGOLA ENVIRONMENTAL SERVICES LDA	AES BENGO LANDFILL	CPT	LAWM	2021	Angola	R1 261 209.10
533502	ANGOLA ENVIRONMENTAL SERVICES LDA	AES KWANDA WTF	CPT	LAWM	2021	Angola	R150 457.50
509264	AFRICA PROJECTS	DOUBLE CIRCUIT 132KV POWERLINE FROM ROMANSRIVER	CPT	LAW M	2021	Western Cape | SA	R362 681.25
505655	AIR LIQUIDE (PTY) LTD	EA AIR LIQUIDE HVS	JNB	VARS	2021	Western Cape | SA	R245 708.75
551321	AIRPORTS COMPANY SOUTH AFRICA SOC LTD	ENVIRO PRACTITIONER FOR NEW CARGO PRECINCT	PTA	COES	2021	Gauteng | SA	R1 456 134.75
517031	ANGLO OPERATIONS (PTY) LTD	EMP LANDAU 3 PWR	JNB	CANB	2021	Mpumalanga | SA	R90 264.05

558979	ANGLO OPERATIONS (PTY) LTD	SACE LIFEX PFS B CLYDESDALE PIT & S&SD – CLYDESDALE PIT	JNB	NESE	2021	R1 944 122.00	R4 491 786.51
570283	ANGLO-INYOSI (PTY) LTD	ELDERS COLLIERY EIA AND WULA 2021	JNB	ANAM	2021	Mpumalanga | SA	R1 146 264.25
561608	RUSTENBURG PLATINUM MINES LTD	RELOCATING OF ACID PLANT	PTA	MAND	2021	North West | SA	E699 771.25
569733	RUSTENBURG PLATINUM MINES LTD	MM NWRD GAP 2021	JNB	MARA	2021	Limpopo | SA	R1 722 607.05
543554	ASSMANG LTD	ASSMANG 2019	DUR	KING	2021	KwaZulu-Nata | SA	R452 526.25
535240	ZUTARI (PTY) LTD	SPECIFICATION OF ENVIRONMENTAL MANAGEMENT	CPT	ARMK	2021	SA	R364 211.00
572359	BLUE CRANE FUNERALS (PTY) LTD	BLUECRANE FUNERALS CREMATORIUM EIA	CPT	ELSL	2021	Western Cape | SA	R275 150.00
564194	CSIR PTA	CSIR KWAGGA WEF SIA	CPT	REUT	2021	SA	R96 545.00
495838	ESKOM HOLDINGS SOC LTD	EIA FOR PROPOSED ESKOM MERINO 66KV SUBSTATION	CPT	JONS	2021	SA	R33 740.00
542335	ESKOM HOLDINGS SOC LTD	ESKOM KAPPA STERREKUS POWERLINE SCREENING	CPT	JONS	2021	Western Cape | SA	R2 528 281.00
552579	HARMONY GOLD MINING COMPANY LTD	H KALGOLDENVADVI	PTA	MAND	2021	Gauteng | SA	R435 016.99
535518	HUMAN SETTLEMENT HOLISTIC SERVICE (PTY) LTD	EIA CHARLESVILLE LOW-COST HOUSING DEVELOPMENT	CPT	LAWM	2021	SA	R166 507.50
495007	ISEGEN (SOUTH AFRICA) (PTY) LTD	ISEGENRELO_BA	DUR	JORD	2021	KwaZulu-Nata | SA	R732 676.25
544739	LA FUELS	SPIN STREET WASTE MANAGEMENT FACILITY 24G	CPT	LAWM	2021	SA	R143 467.50

570312	LESAFFRE	BAKELAB PHASE 1 – ENVIRONMENTAL ASSESSMENT	JNB	MARA	2021	Gauteng | SA	R63 091.25
508761	LIVIA WINERY	VERGENOEGD DEVELOPMENT: FLOODLINE STUDY	CPT	HILL	2021	SA	R718 332.50
541769	MARITIEME AUTORITET SURINAME (MAS)	SURINAME RIVER DREDGING EIA UPDATE	CPT	REUT	2021	SA	R1 309 055.00
507228	MINERALS SANDS RESOURCES (PTY) LTD	TORMIN MINE EXPANSION	CPT	REUT	2021	Australia	R2 548 157.50
564982	MINERALS SANDS RESOURCES (PTY) LTD	TORMIN EXPANSION EIA	CPT	REUT	2021	SA	R1 943 785.00
569819	MINERALS SANDS RESOURCES (PTY) LTD	TORMIN SEIA	CPT	DALC	2021	SA	R164 935.00
553013	MONDI (SOUTH AFRICA) (PTY) LTD	MONDI EIA MULTI FUEL BOILER	DUR	KING	2021	KwaZulu-Nata | SA	R421 975.00
569644	MOPANI COPPER MINES PLC	MOPANI EIS CONSOLIDATION	JNB	ANAM	2021	Zambia	R3 240 664.72
541918	NADESON CONSULTING SERVICES (PTY) LTD	MIDDELPOS BA 2	CPT	LAWM	2021	SA	R139 347.50
548215	TRONOX NAMAKSWA SANDS (PTY) LTD	EIA FOR TRONOX EAST OFS RSF	CPT	LAWM	2021	SA	R2 239 911.25
495689	OMNIA FERTILIZER LTD	OMNIA CLOSURE BAR	PTA	COES	2021	SA	R1 089 360.75
509310	PRDW SOUTH AFRICA	FISHING HARBOURS – DREDGING ECO SERVICES	CPT	ARMK	2021	Western Cape | SA	R953 160.80
542680	RICOCURE (PTY) LTD	RICOCURE 3B -4B EP	CPT	JONS	2021	SA	R161 753.75
571289	SI GROUP (SOUTH AFRICA) (PTY) LTD	SI_DECOMISSIONING_BA	DUR	BELR	2021	KwaZulu-Nata | SA	R816 383.75

547249	SRK CONSULTING (CONGO) SPRL	DRC SOK2 EIS	DUR	JORD	2021	DRC	R850 000.00
560347	SRK CONSULTING (CONGO) SPRL	NAMBULWA ESIA20	DUR	JORD	2021	DRC	R534 607.21
564270	SRK CONSULTING (CONGO) SPRL	FMI ESIA 2020	DUR	JORD	2021	DRC	R482 720.06
567713	SRK CONSULTING (UK) LTD	DUGBE ESIA UPDATE	CPT	BURP	2021	Liberia	R33 339.51
532091	STAATSOLIE	SARAMACCA POWER PLANT ESIA	CPT	REUT	2021	SA	R925 412.50
545842	STAATSOLIE	EMMP FOR ENCHANCED OIL RECOVERY IN THE TAMBAREDJO OILFIELD	CPT	REUT	2021	Algeria	R801 815.00
550457	STAATSOLIE	CYCLIC STEAM STIMULATION ESIA	CPT	REUT	2021	South America	R501 147.50
510482	SUNGU SUNGU PROJECTS	SUNGU SUNGU PLETMOS SEISMIV EIA	CPT	REUT	2021	SA	R440 466.25
528602	TRIAKON ENGINEERING	ELDO BAR WULA FOR ELDORADD	PTA	LEGAL	2021	SA	R11 121.00
536783	TRONOX MINERAL SANDS (PTY) LTD	EIA FOR TRONOX COASTAL SETBACK ZONE	CPT	LAWM	2021	Western Cape | SA	R455 342.50
561356	V&A WATERFRONT HOLDINGS (PTY) LTD	V & A REVETMENT UPGRADES ES AND ECO	CPT	ARMK	2021	Western Cape | SA	R95 116.50
535240	ZUTARI (PTY) TD	SPECIFICATION OF EVIRONMENTAL MANAGEMENT	CPT	ARMK	2021	SA	R364 211.00
537627	TRONOX KWAZULU-NATAL SANDS (PTY) LTD	TRONOX FAIRBREEZE EA AMENDMENT	DUR	KING	2020	KwaZulu-Nata | SA	R287 926.25
572200	SASOL SECUNDA	BASIC ASSESSMENT FOR SASOL'S PROPOSED FUELS TANK	PTA	COES	2020	MPUMALANGA | SA	R1 121 013.75

539945	SASOL SECUNDA	SASOLTANKFARMEIA	PTA	COES	2020	Mpumalanga | SA	R497 425.50
551172	NV ENERGIEBEDRIJVEN SURINAME	EBS WANICA POWER PLANT ESIA	CPT	JONS	2020	South America	R427 707.00
475139	KCS CONSULTANTS	KCS DR08376 ENVIRO	PLZ	GARR	2020	Eastern Cape | SA	R570 703.65
533767	ESKOM HOLDINGS SOC LTD	ESKOM GRID-SCALE BATTERY STORAGE BA	CPT	HILL	2020	SA	R364 917.50
481452	GUMEDE RURAL DEVELOPMENT	GRD QUARRY EA	DUR	KING	2020	KwaZulu-Nata | SA	R287 391.25
551394	ANGLO OPERATIONS (PTY) LTD	SACE BOREHOLES GENERAL AUTHORISATION	JNB	KILI	2020	SA	R640 067.50
512575	ANGLO OPERATIONS (PTY) LTD	EMP LANDAU 3 ESKOM POWERLINE RELOCATING	JNB	CANB	2020	Mpumalanga | SA	R779 788.25
551394	ANGLO OPERATIONS (PTY) LTD	SACE BOREHOLES GENERAL AUTHORISATION	JNB	KILI	2020	SA	R640 067.50
521706	RHEINMETTALL DENEL MUNITION	RHEINMENTAL MPNP EIA	CPT	JONS	2020	Western Cape | SA	R523 721.00
542160	CHEMICAL INTIATIVES A DIVISION OF AECI LTD	CHEMICAL_INITIATIVE_BA	DUR	JORD	2020	KwaZulu-Nata | SA	R182 482.50
483038	FOSKOR (PTY) LTD	FOSKOR MES	DUR	BURP	2020	KwaZulu-Nata | SA	R625 657.50
501142	WATERSTONE COUNTRY ESATE	WATERSTONE HOUSING	DUR	VHUY	2019	KwaZulu-Nata | SA	R564 610.00
527689	SRK CONSULTING (UK) LTD	CAMEROON DAM	CPT	REUT	2019	Cameroon	R123 227.89
505122	SRK CONSULTING (CHINA) LTD	ICBC CACULA ESDD	CPT	DALC	2019	China	R544 224.00

506917	SERITI COAL (PTY) LTD	EMP AMENDMENT KRIEL - MATLA	JNB	ANAM	2019	Mpumalanga | SA	R290 832.50
523488	MANYELETI CONSULTING (PTY) LTD	DEM EA AMEND 201	PTA	COES	2019	SA	R325 218.90
515843	IMPACT AFRICA LTD	ORANGE BASIN DEEP BLOCK EIA	CPT	MASS	2019	SA	R468 685.00
429170	GRINDROD TERMINALS (SOUTH AFRICA) (PTY) LTD	GRINDROD WATER & DUST MONITORING 2015	DUR	REDD	2019	KwaZulu-Nata | SA	R2 598 891.75
539869	EASIGAS (PTY) LTD	EASIGAS DUE DILIGENCE SALDANHA	CPT	MASS	2019	SA	R103 213.00
530992	COSAMO (PTY) LTD	EIA FOR A HOSPITAL IN ANGOLA	CPT	LAWM	2019	SA	R428 640.00
527292	ANCHOR YEAST	ANCHOR YEAST BA	DUR	JORD	2019	KwaZulu-Nata | SA	R207 933.75
511330	PRDW SOUTH AFRICA	ISLAND VIEW SEAWALL DURBAN BA	DUR	BURP	2018	SA	R219 570.00
538581	ZUTARI (PTY) LTD	CONS ENV MANAGEMENT PLAN OF MR 108, GORDONSBAY	CPT	DUJE	2018	SA	R19 007.50
538581	ZUTARI (PTY) LTD	CONS ENV MANAGEMENT PLAN OF MR 108, GORDONSBAY	CPT	DUJE	2018	SA	R19 007.50
489008	TRANSNET PORT TERMINALS	SALDANHA AEL-AUDIT & BA	CPT	. JONS	2018	Western Cape | SA	R889 674.50

Appendix C: Project Locality Map

Service Layer Credits: World Topographic Map: Esri South Africa, Esri, HERE, Garmin, Foursquare, FAO, METI/NASA, USGS
Hybrid Reference Layer: Esri Community Maps Contributors, Esri South Africa, Esri, HERE, Garmin, Foursquare, METI/NASA, USGS

0.17 0.09 0 0.17 0.34 0.51 0.68 Kilometers

srk consulting

UPL WAREHOUSE

LOCALITY MAP

Data Source:	
Scale:	
Projection: Geographic	Datum: WGS 84
Central Meridian/Zone:	
Date: 19/01/2023	Compiled by: BOYH
Project No: 593684	Fig No:

Revision: A Date: 19 01 2023

Path: C:\Users\boyh\OneDrive - SRK Consulting\Projects\Waterhouse\Waterhouse.aprx

Appendix D: Stakeholder Engagement

Appendix D 1: Pre-application Authority Consultation Documents

Anthoneth Matlala

From: NOGWANYA, MALESELA (GDARDE) [redacted]
Sent: Wednesday, 01 February 2023 10:56
To: MUKWEVHO, MULALO (GDARD)
Cc: Anthoneth Matlala
Subject: FW: GAUT 002/22-23/E3491_APPLICATION FOR AN EA FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

EXTERNAL

Good day Mulalo

Could you please assist Anthoneth with a pre-application meeting.

Regards

GAUTENG
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

From: Anthoneth Matlala <AMatlala@srk.co.za>
Sent: Tuesday, 31 January 2023 11:58
To: eiaonline.queries <eiaonlinequeries@gauteng.gov.za>
Subject: GAUT 002/22-23/E3491_APPLICATION FOR AN EA FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

Good day

Kindly advise on the process of requesting a Pre-application meeting, as we tried through the On-line system, and can't seem to locate it.

Kind Regards
Anthoneth Matlala *Bsc (Hons) Environmental Management*
srk consulting
SRK Consulting (South Africa) (Pty) Ltd.
Menlyn Wood Office Park, Block A,
291 Sprite Avenue, Faerie Glen, Pretoria, GT - South Africa, 0081
PostNet Suite #177, Private Bag X20009, Garsfontien, Pretoria, GT - South Africa, 0042
Tel: +27-(0) 12-361-9821; **Fax**: +27-(0) 12-361-9912

Mobile: [redacted]; **Direct**: +27-(0) 12-361-1908
Email :AMatlala@srk.co.za
www.srk.co.za

Appendix D 2: Stakeholder Database

593684: APPLICATION FOR AN EA FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE
STAKEHOLDER DATABASE

I&AP REGISTER - 593684 - APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE.		
First Name	**Last Name**	**Company**
AFFECTED LANDOWNERS		
Ockert	Hollenbach	Sterkfontein 140 JR
COMPETENT AUTHORITY		
Khaka	Khaka	Gauteng Department of Agriculture and Rural Development (GDARD) - CEO Grade B: Impact Management
Nthapiseng	Moloi	Gauteng Department of Agriculture and Rural Development (GDARD)
Nhlanhla	Makhathini	Gauteng Department of Agriculture and Rural Development (GDARD)
Miranda	Mhlongo	Gauteng Department of Agriculture and Rural Development (GDARD)
Mulalo	Mukwevho	Gauteng Department of Agriculture and Rural Development (GDARD)
Malesela	Nogwanya	Gauteng Department of Agriculture and Rural Development (GDARD)
Malesela	Sehona	Gauteng Department of Agriculture and Rural Development (GDARD)
COMMENTING AUTHORITY		
Ephron	Maradwa	Department of Agriculture, Forestry and Fisheries
Blake	Mosley-Lefatola	Gauteng Department of Economic Development (GDED)
Khumbuzile	Moalosi	Gauteng Department of Trade and Industry
Tshilidzi	Mathobo	Gauteng Department of Trade and Industry
Phindile	Mbanjwa	Gauteng Department of Human Settlements
Thato Danny	Mjona	Department of Water & Sanitation
Mokgadi Constance	Machaba	Department of Water & Sanitation
Molokomme	Tebogo	Gauteng Department of Sports, Arts and Culture
Nontsikelelo	Sisulu	Gauteng Department of Transport and Community Safety and Liaison
Itumeleng	Mokate	Department of Co-Operative Governance & Traditional Affairs
Mzikayifane Mzi	Khumalo	Department of Co-Operative Governance & Traditional Affairs
Darion	Barclay	Gauteng Department of Transport
LOCAL MUNICIPALITY		
Mandisa	Phosa	City of Ekurhuleni - Environmental Resource & Waste Management Department
Dumisani	Maseko	City of Ekurhuleni Metropolitan Municipality (COE): Environmental Resource Management
WARD COUNCILLORS		
Tshoarelo	Pudi	City of Ekurhuleni - Ward Councillor: Ward 89

NGOs/ CBOs/PARASTATALS		
Grant	Botha	Provincial Heritage Resources Authority Gauteng (PHRAG)
Samantha	Ralston Paton	BirdLife South Africa
Constant	Hoogstad	Endangered Wildlife Trust
Ishaan	Ramklown	South African National Roads Agency Limited
Judy	Marx	South African National Roads Agency Limited
Morgan	Griffiths	Wildlife and Environment Society of South Africa (WESSA)
MEDIA		
Saki	Mabhele	The Olifants News
PUBLIC PLACES		
Dorris	Mathebula	Olifantsfontein Library
REGISTERED INTRESTED AND AFFECTED PARTIES		
Johann	van Niekerk	Kemin Industries South Africa (Pty)Ltd : SHEQ Specialist
BUSINESS		
Stanley	Khumalo	Stoller SA
Andries	Bozha	Otrac South-Africa Exporters (pty) LTD
Johan	Verneula	VJL Group
Lizette	Venter	Jumbo Brands
Elize	Oberholzer	Full Basket Brands - FMCG manufacturer
Tshepiso	Chonco	Iron Mountain South Africa Olifantsfontein
PROJECT TEAM		
Ricky	Rajkaran	UPL OpenAg (UPL)
Rishen	Ramlugan	UPL OpenAg (UPL)
Quade	Singjam	UPL OpenAg (UPL)
Manda	Hinsch	Srk Consulting
Ndomupei	Masawi	Srk Consulting
Vusi Masango	Masango	Srk Consulting
Anthoneth	Matlala	Srk Consulting
Marissa	Swart	Srk Consulting

Appendix D 3: Announcement Phase Notifications

From: Anthoneth Matlala [redacted]

Subject: 593684_20230127_UPL WAREHOUSE_INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES

Date: Friday, 27 January 2023 14:55:00

Attachments: 593684_20230125_UPL Warehouse_Notification Letter_F.pdf

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Dear Stakeholder,

INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES

APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE.

Notice is hereby given in terms of the Environmental Impact Assessment (EIA) Regulations, (as amended on 1 April 2017 and 11 June 2021, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), that UPL OpenAg (UPL) is applying for an Environmental Authorisation (EA) for the Storage of Dangerous Goods in the Sterkfontein Warehouse located in Olifantsfontein, Gauteng Province. The EA application and supporting documents will be submitted to the Competent Authority (the Gauteng Department of Agriculture and Rural Development) (GDARD).

You are receiving this correspondence as a registered Interested and Affected Party on an existing database for previous environmental authorisation processes. Should you no longer wish to receive further information relating to environmental authorisation processes at **UPL OpenAg (UPL)** *and would like to be removed from the database, please notify SRK Consulting (South Africa) (Pty) Ltd via email at AMatlala@srk.co.za.*

As of 1 July 2021, there have been some changes to the Protection of Personal Information Act 4 of 2013 (POPIA) which aims to promote protection of personal information. Should you wish to remain on the database, your information will only be used as part of the public participation process as outlined in the National Environmental Management Act (Act 107 of 1998) and Environmental Impact Assessment Regulation,2014, as amended. This information will be securely stored and only made available to the regulatory authorities upon request. For more information please see our Privacy Policy.

Kind Regards
Anthoneth Matlala *Bsc (Hons) Environmental Management*

srk consulting

SRK Consulting (South Africa) (Pty) Ltd.

Menlyn Wood Office Park, Block A,
291 Sprite Avenue, Faerie Glen, Pretoria, GT - South Africa, 0081
PostNet Suite #177, Private Bag X20009, Garsfontien, Pretoria, GT - South Africa, 0042

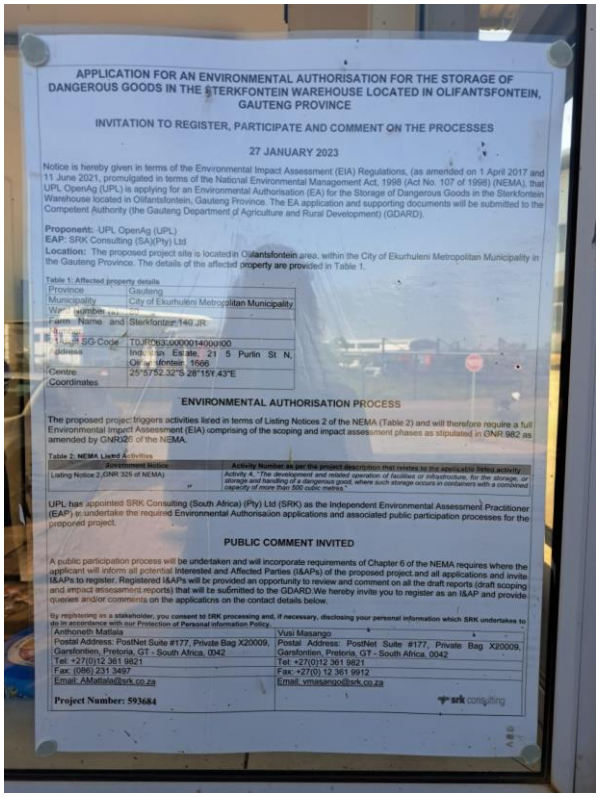
Tel: +27-(0) 12-361-9821; **Fax**: +27-(0) 12-361-9912

Mobile: [redacted]; **Direct**: +27-(0) 12-361-1908

Email :AMatlala@srk.co.za

www.srk.co.za

Appendix D 4: Site Notices



APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES

27 JANUARY 2023

Notice is hereby given in terms of the Environmental Impact Assessment (EIA) Regulations, (as amended on 1 April 2017 and 11 June 2021, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), that UPL OpenAg (UPL) is applying for an Environmental Authorisation (EA) for the Storage of Dangerous Goods in the Sterkfontein Warehouse located in Olifantsfontein, Gauteng Province. The EA application and supporting documents will be submitted to the Competent Authority (the Gauteng Department of Agriculture and Rural Development) (GDARD).

Proponent: UPL OpenAg (UPL)
EAP: SRK Consulting (SA)(Pty) Ltd
Location: The proposed project site is located in Olifantsfontein area, within the City of Ekurhuleni Metropolitan Municipality in the Gauteng Province. The details of the affected property are provided in Table 1.

Table 1: Affected property details

Province	Gauteng
Municipality	City of Ekurhuleni Metropolitan Municipality
Ward Number(s)	[illegible]
Farm Name and Portion	Sterkfontein 140 JR
21-digit SG Code	TL[illegible]0000140000000
Address	Industrial Estate, 21 5 Purlin St N, Olifantsfontein, 1666
Centre Coordinates	25°57'52.32"S 28°15'7.43"E

ENVIRONMENTAL AUTHORISATION PROCESS

The proposed project triggers activities listed in terms of Listing Notices 2 of the NEMA (Table 2) and will therefore require a full Environmental Impact Assessment (EIA) comprising of the scoping and impact assessment phases as stipulated in GNR 982 as amended by GNR 327 of the NEMA.

Table 2: NEMA Listed Activities

Government Notice	Activity Number as per the project description that relates to its applicable listed activity
Listing Notice 2 (GNR 325 of NEMA)	*Activity 4, "The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres."*

UPL has appointed SRK Consulting (South Africa) (Pty) Ltd (SRK) as the Independent Environmental Assessment Practitioner (EAP) to undertake the required Environmental Authorisation applications and associated public participation processes for the proposed project.

PUBLIC COMMENT INVITED

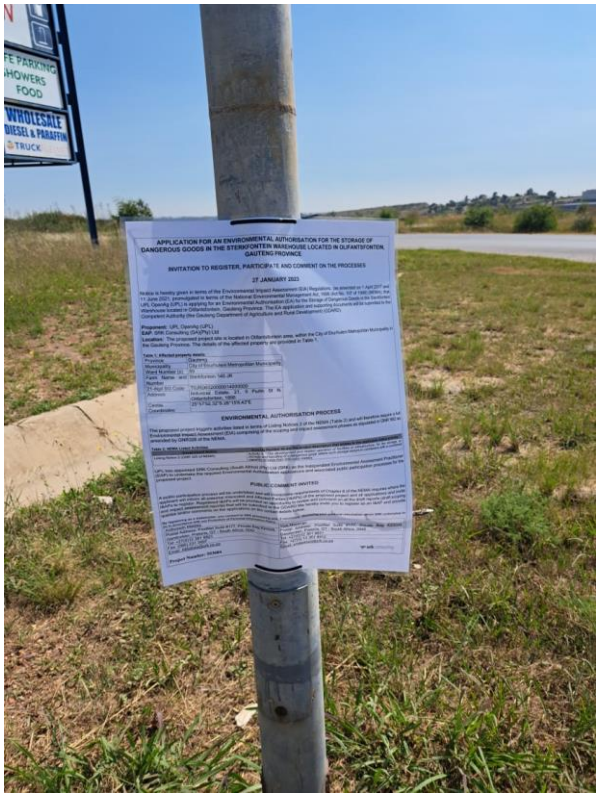
A public participation process will be undertaken and will incorporate requirements of Chapter 6 of the NEMA requires where the applicant will inform all potential Interested and Affected Parties (I&APs) of the proposed project and all applications and invite I&APs to register. Registered I&APs will be provided an opportunity to review and comment on all the draft reports (draft scoping and impact assessment reports) that will be submitted to the GDARD.We hereby invite you to register as an I&AP and provide queries and/or comments on the applications on the contact details below.

By registering as a stakeholder, you **consent to SRK processing and, if necessary, disclosing your personal information which SRK undertakes to do in accordance with our Protection of Personal information Policy.**

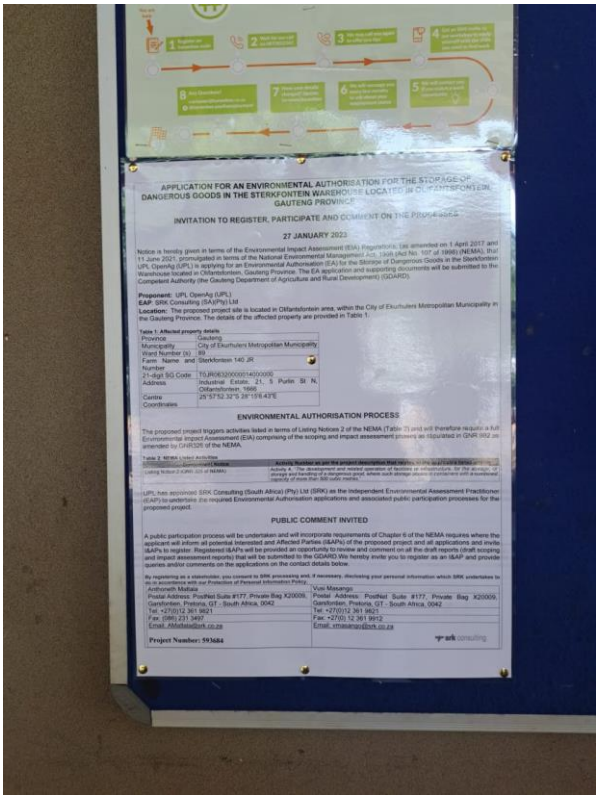
Anthoneth Matlala	Vusi Masango
Postal Address: PostNet Suite #177, Private Bag X20009, Garsfontein, Pretoria, GT - South Africa, 0042	Postal Address: PostNet Suite #177, Private Bag X20009, Garsfontein, Pretoria, GT - South Africa, 0042
Tel: +27(0)12 361 9821	Tel: +27(0)12 361 9821
Fax: (086) 231 3497	Fax: +27(0) 12 361 9912
Email: AMatlala@srk.co.za	Email: vmasango@srk.co.za

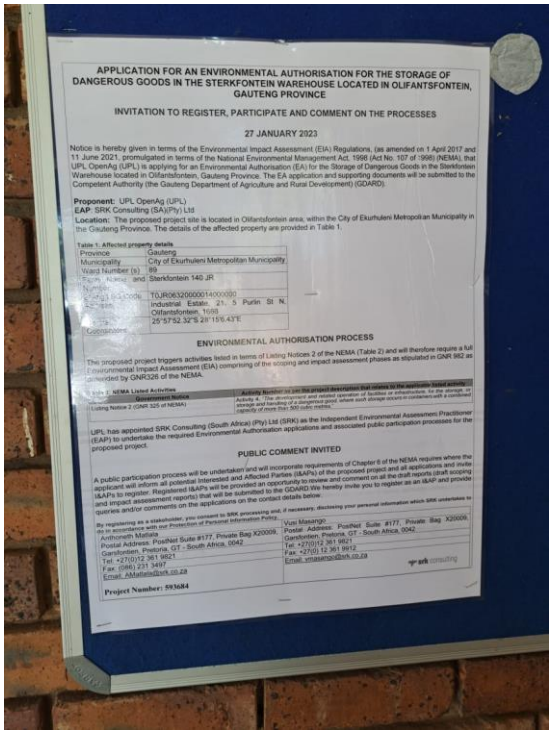
Project Number: 593684

srk consulting


APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE
INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES
27 JANUARY 2023
ENVIRONMENTAL AUTHORISATION PROCESS
PUBLIC COMMENT INVITED


CLAYVILLE TRUCKERS JUNCTION
SAND
STONE
CEMENT
SAFE PARKING
SHOWERS
FOOD
WHOLESALE
DIESEL & PARAFFIN
TRUCK


APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE
INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES
27 JANUARY 2023
ENVIRONMENTAL AUTHORISATION PROCESS
PUBLIC COMMENT INVITED
Project Number: 593684



APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

INVITATION TO REGISTER, PARTICIPATE AND COMMENT ON THE PROCESSES

27 JANUARY 2023

Notice is hereby given in terms of the Environmental Impact Assessment (EIA) Regulations, (as amended on 1 April 2017 and 11 June 2021, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), that UPL OpenAg (UPL) is applying for an Environmental Authorisation (EA) for the Storage of Dangerous Goods in the Sterkfontein Warehouse located in Olifantsfontein, Gauteng Province. The EA application and supporting documents will be submitted to the Competent Authority (the Gauteng Department of Agriculture and Rural Development) (GDARD).

Proponent: UPL OpenAg (UPL)
EAP: SRK Consulting (SA)(Pty) Ltd
Location: The proposed project site is located in Olifantsfontein area, within the City of Ekurhuleni Metropolitan Municipality in the Gauteng Province. The details of the affected property are provided in Table 1.

Table 1: Affected property details

Province	Gauteng
Municipality	City of Ekurhuleni Metropolitan Municipality
Ward Number (s)	89
Farm Name and Number	Sterkfontein 140 JR
21 Digit SG Code	TOJR0632000001400000
Site Address	Industrial Estate, 21, 5 Purlin St N, Olifantsfontein, 1666
GPS Coordinates	25°57'52.32"S 28°15'6.43"E

ENVIRONMENTAL AUTHORISATION PROCESS

The proposed project triggers activities listed in terms of Listing Notices 2 of the NEMA (Table 2) and will therefore require a full Environmental Impact Assessment (EIA) comprising of the scoping and impact assessment phases as stipulated in GNR 982 as amended by GNR326 of the NEMA.

Table 2: NEMA Listed Activities

Government Notice	Activity Number as per the project description that relates to the applicable listed activity
Listing Notice 2 (GNR 325 of NEMA)	Activity 4: *The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.*

UPL has appointed SRK Consulting (South Africa) (Pty) Ltd (SRK) as the Independent Environmental Assessment Practitioner (I&AP) to undertake the required Environmental Authorisation applications and associated public participation processes for the proposed project.

PUBLIC COMMENT INVITED

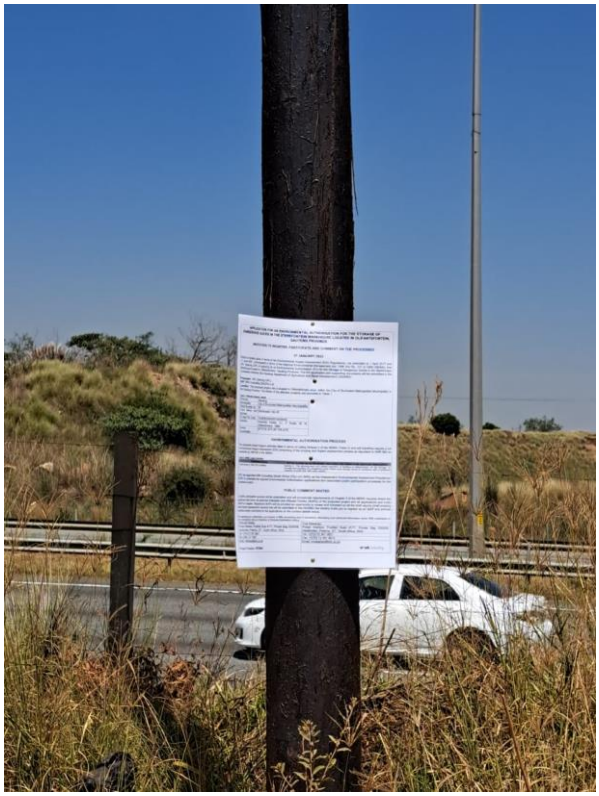
A public participation process will be undertaken and will incorporate requirements of Chapter 6 of the NEMA requires where the applicant will inform all potential interested and Affected Parties (I&APs) of the proposed project and all applications and invite I&APs to register. Registered I&APs will be provided an opportunity to review and comment on all the draft reports (draft scoping and impact assessment reports) that will be submitted to the GDARD.We hereby invite you to register as an I&AP and provide queries and/or comments on the applications on the contact details below:

By registering as a stakeholder, you consent to SRK processing and, if necessary, disclosing your personal information which SRK undertakes to do in accordance with our Protection of Personal Information Policy.

Anthoneth Mafata Postal Address: PostNet Suite #177, Private Bag X20009, Sterkfontein, Pretoria, GT - South Africa, 0042 Tel: +27(0)12 361 9821 Fax: (086) 233 3497 Email: AMafata@srk.co.za	Vusi Masango Postal Address: PostNet Suite #177, Private Bag X20009, Sterkfontein, Pretoria, GT - South Africa, 0042 Tel: +27(0)12 361 9821 Fax: +27(0) 12 361 9912 Email: vmasango@srk.co.za

Project Number: 593684

srk consulting



Appendix D 5: Newspaper Advertisements

School burglar gets an effective six years imprisonment

By Dumisani Hlatswayo

The Station Commander of the Ivory Park SAPS welcomed a local man's sentencing for burglarising the JB Matabane Secondary School in August last year.

Sizwe Tshabalala, 33, of Extension Ten Ivory Park, was sentenced to an effective six years in prison by the Tembisa Magistrate Court on Friday. Tshabalala, considered a serial thief, was caught by security officers of the said school while he was busy stealing stationery and foodstuffs from the school. Seeing that he had been seen, Tshabalala dropped the items and fled but was caught while still on the school's grounds.

"We are glad and proud that once he was assigned the docket, Detective Constable Elvis Mangena made a thorough background check on Tshabalala, thus ensuring that bail was successfully denied and that he underwent the entire trial while in jail," said Brigadier David Mbongeni Ngcobo, the Ivory Park SAPS station commander.

Brigadier Ngcobo further congratulated Mangena for the sentencing, adding that sentences, although meted by the courts, rely heavily on the amount of evidence gathered by the police.

Brigadier Ngcobo said that the local schools will be delighted to know that one of the people who were bothering them has been withdrawn from their community for some time.

APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

INVITATION TO REGISTER AND COMMENT

Notice is hereby given in terms of the Environmental Impact Assessment (EIA) Regulations, (as amended on 1 April 2017 and 11 June 2021, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), that UPL OpenAg (UPL) is applying for an Environmental Authorisation (EA) for the Storage of Dangerous Goods in the Sterkfontein Warehouse located in Olifantsfontein, Gauteng Province. The EA application and supporting documents will be submitted to the Competent Authority (the Gauteng Department of Agriculture and Rural Development) (GDARD).

Proponent: UPL OpenAg (UPL)
EAP: SRK Consulting (SA)(Pty) Ltd
Location: The proposed project site is located in Olifantsfontein area, within the City of Ekurhuleni Metropolitan Municipality in the Gauteng Province. The details of the affected property are provided in Table 1 below.

Table 1: Affected property details

Province	Gauteng
Municipality	City of Ekurhuleni Metropolitan Municipality
Ward Number (s)	89
Farm Name and Number	Sterkfontein 140 JR
21-digit SG Code	T0JR06320000014000000
Address	Industrial Estate, 21, 5 Purlin St N, Olifantsfontein, 1666
Centre Coordinates	25°57'52.32"S 28°15'6.43"E

ENVIRONMENTAL AUTHORISATION PROCESS

The proposed project triggers activities listed in terms of Listing Notices 2 of the NEMA (Table 2) and will therefore require a full EIA comprising of the scoping and impact assessment phases as stipulated in GNR 982 as amended by GNR326 of the NEMA.

Table 2: NEMA Listed Activities

Government Notice	Activity Number as per the project description that relates to the applicable listed activity
Listing Notice 2 (GNR 325 of NEMA)	Activity 4, "*The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.*"

PUBLIC COMMENT:

A public participation process will be undertaken and will incorporate requirements of Chapter 6 of the NEMA requires where the applicant will inform all potential Interested and Affected Parties (I&APs) of the proposed project and all applications and invite I&APs to register. Registered I&APs will be provided an opportunity to review and comment on all the draft reports (draft scoping and impact assessment reports) that will be submitted to the GDARD.We hereby invite you to register as an I&AP and provide queries and/or comments on the applications on the contact details below.

Anthoneth Matlala	Vusi Masango
Postal Address: PostNet Suite #177, Private Bag X20009, Garsfontein, Pretoria, GT - South Africa, 0042	Postal Address: PostNet Suite #177, Private Bag X20009, Garsfontein, Pretoria, GT - South Africa, 0042
Tel: +27(0)12 361 9821	Tel: +27(0)12 361 9821
Fax: (086) 231 3497	Fax: +27(0) 12 361 9912
Email: AMatlala@srk.co.za	Email: vmasango@srk.co.za

srk consulting

Date of Notice : 27 January 2023

Ivory Park SAPS needs your assistance

By Dumisani Hlatswayo

IVORY PARK SAPS is urgently seeking help from the community in identifying those responsible for Kwazinkiso Sibanda's tragic death, which occurred roughly two months ago. Any information leading to justice brings hope and peace of mind, so they implore anyone who might know something to come forward.

On the evening of November 26th, at Clayville's Extension 78, a gruesome discovery occurred when Sibanda's lifeless body lay in an eerie stillness. Distraught community members reported their findings to the police, who took all necessary steps before transferring his remains to the government mortuary - from where it has remained unclaimed by any family member or known relatives and friends. Fingerprints were used as an identification, but unfortunately, there are no images available that could provide more detail on this tragedy.

"If anyone knows who this deceased man is or had a family member or friend who is missing, they are welcome to call the Ivory Park police on 011 990 9600 or alternatively contact Detective Sergeant Ndivhuwo Muige on 061 773 1525," the police said in a statement.

If the next of kin fails to come forward, the deceased may be buried as a pauper.

Capt Ben Matimulane
079 498 6336

Appendix D 6: Comments and Responses Report

593684: APPLICATION FOR AN EA FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

COMMENTS AND RESPONSE REPORT (CCR)

INTERESTED AND AFFECTED PARTIES LIST THE NAMES OF PERSONS CONSULTED IN THIS COLUMN.	DATE COMMENTS RECEIVED	ISSUES RAISED	RESPONSES PROVIDED	RESPONDENT	CONSULTATION STATUS (CONSENSUS DISPUTE, NOT FINALISED, ETC.)
Johann Van Niekerk	06 February 2023	To whom it may concern I trust you receive this communication in good health. Please forward me the letter dated : **27 January 2023 / 593684** APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE. SG Code: T0JR06320000014000000 I require Appendix B: **Comment Form** please. Thanking you in advance.	The individual has been registered onto the project stakeholder database and will be included throughout the project EIA process.	EAP	Resolved

Appendix D 7: Stakeholder Communications

srk consulting

Block A, Menlyn Wood
Office Park
291 Sprite Avenue
Faerie Glen
Pretoria 0081
PostNet Suite #177
Private Bag X20009
Garsfontein
Pretoria 0042
South Africa
T: +27 (0) 12 361 9821
F: +27 (0) 12 361 9912
E: pretoria@srk.co.za
www.srk.co.za

Document Transmittal

APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE.

(Letters to Local Business)

Project Number:	593684

		Electronic Copy - CD	Paper Print	For Comment	For information Only
Authorised by:	VUSI MASANGO				
Signature:	SRK Consulting - Certified Electronic Signature srk consulting 593684/44954/Document 1111-1713-5811-MASV-26/01/2023 This signature has been printed digitally. The Author has given permission for its use for this document. The details are stored in the SRK Signature Database				
Date:	26/01/2023				
Document Reference	**Description**				
	Invitation To Register, Participate and Comment On The Processes		x		

Note:

srk consulting

Block A, Menlyn Wood
Office Park
291 Sprite Avenue
Faerie Glen
Pretoria 0081
PostNet Suite #177
Private Bag X20009
Garsfontein
Pretoria 0042
South Africa
T: +27 (0) 12 361 9821
F: +27 (0) 12 361 9912
E: pretoria@srk.co.za
www.srk.co.za

Please acknowledge receipt by signing this document

Name	Surname	Company	Contact Number	E-Mail	Date	Signature
ELIZE	OBERHOLZER	FULL BASKET BRANDS	[redacted]	[redacted]	27/01/23	
Andries	Botha	OTRAC S.A			27/01/23	
Stanley	Khomola	Stallion SA			27/01/2023	
Johan	Vermeulen	VJL Group			27/1/2023	
Lizette	Venter	Jumbo Brands			27/1/2023	egVenter.
Tshepiso	chonco	Iron Mountain			27/1/2023	
Doris	Matsebula	Olifants Library			27/1/2023	

From: Johann Van Niekerk
To: Vusi Masango; Anthoneth Matlala
Cc: Ndomupei Masawi; Renier Becker
Subject: RE: Letter Dated: 27 January 2023 / 593684
Date: Tuesday, 07 February 2023 09:40:15
Attachments: 593684_20230125_UPL Warehouse_Comment Form_F - JvN.pdf

---

EXTERNAL

Dear Vusi

Thank you – Received.
Please find attached my REGISTRATION AND COMMENT SHEET for your information.

Thanking you in advance.

Kindest regards | Vriendelike groete

Johann van Niekerk | SHEQ Specialist
Animal Nutrition and Health Sub Sahara Africa
Twenty One Industrial Estate, 6 Purlin Street North,
Process Innovation Building, Olifantsfontein,
Johannesburg, South Africa
Sterkfontein Area, Ext.11, Johannesburg, South Africa
Google Maps: Kemin Industries
[redacted]
www.kemin.com/af/en/markets/animal

We strive to sustainably transform the quality of life every day for 80% of the world with our products and services.

From: Vusi Masango <VMasango@srk.co.za>
Sent: Tuesday, 07 February 2023 08:31
To: Johann Van Niekerk <johann.vanniekerk@kemin.com>; Anthoneth Matlala <AMatlala@srk.co.za>
Cc: Ndomupei Masawi <NMasawi@srk.co.za>
Subject: RE: Letter Dated: 27 January 2023 / 593684

Dear Johann

please see attached notification letter with the comments and registration form

Kind Regards

Vusi Masango *EAPASA Candidate, WISA, GWD,IAIA, BA In Environmental Management*
Environmental Consultant

srk consulting

SRK Consulting (South Africa) (Pty) Ltd.
Block A, Menlyn Woods, 291 Sprite Avenue, Faerie Glen, South Africa
Private Bag X20009, Garsfontein, 0042
Tel: +27 (0) 12 361 9821; **Fax:** +27 (0) 12 361 9912
Direct: +27 (0) 12 361 9821
Email: VMasango@srk.co.za;
www.srk.co.za

From: Johann Van Niekerk [redacted]
Sent: Monday, 06 February 2023 16:14
To: Vusi Masango <VMasango@srk.co.za>; Anthoneth Matlala <AMatlala@srk.co.za>
Subject: RE: Letter Dated: 27 January 2023 / 593684
Importance: High

EXTERNAL

To whom it may concern

I trust you receive this communication in good health.

Please forward me the letter dated : 27 January 2023 / 593684
APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE.
SG Code: T0JR06320000014000000

I require Appendix B: Comment Form please.

Thanking you in advance.

Kindest regards | Vriendelike groete

KEMIN

Johann van Niekerk | SHEQ Specialist
Animal Nutrition and Health Sub Sahara Africa
Twenty One Industrial Estate, 6 Purlin Street North,
Process Innovation Building, Olifantsfontein,
Johannesburg, South Africa
Sterkfontein Area, Ext.11, Johannesburg, South Africa
Google Maps: Kemin Industries
[redacted]
www.kemin.com/af/en/markets/animal
We strive to sustainably transform the quality of life every day for 80% of the world with our products and services.

APPLICATION FOR AN ENVIRONMENTAL AUTHORISATION FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

REGISTRATION AND COMMENT SHEET

TITLE	Mr	FIRST NAME	Johann
INITIALS	J	SURNAME	Van Niekerk
ORGANISATION	Kemin Industries South Africa (Pty)Ltd		
POSTAL ADDRESS	[redacted]		
		POSTAL CODE	Olifantsfontein, 1666
LAND LINE TEL NO	[redacted]	CELL NO	[redacted]
FAX NO		EMAIL	[redacted]

REGISTRATION AS AN INTERESTED AND AFFECTED PARTY (I&AP) (please mark applicable box with X)

Please formally register me as an interested and affected party (I&AP) so that I may receive further information and notifications during the Environmental Authorisation process	**YES** X	**NO**

I would like my notifications by:

E-mail: [redacted]	**Letter:**	**Fax/tel:**	**SMS:**

In terms of GNR 982 (EIA regulations) I disclose below any direct business, financial, personal or other interest that I may have in the approval or refusal of the application:

N/A

Comments (Use a separate sheet if you wish to)

Kemin Industries South Africa (Pty)Ltd is situated right accross from the building applying for the storage of dangerous goods.

Kemin is in the business of Animal Feed Nutrition and would like to understand the impact it might have on our business.

Anthoneth Matlala
Postal Address: PostNet Suite #177, Private Bag X20009, Garsfontein, Pretoria, GT - South Africa, 0042
Tel: +27(0)12 361 9821
Fax: (086) 231 3497
Email: AMatlala@srk.co.za

Vusi Masango
Postal Address: PostNet Suite #177, Private Bag X20009, Garsfontein, Pretoria, GT - South Africa, 0042
Tel: +27(0)12 361 9821
Fax: +27(0) 12 361 9912
Email: VMasango@srk.co.za

THANK YOU FOR YOUR CONTRIBUTION

By registering as an Interested and Affected Party, you consent to SRK processing your personal data for the purposes of obtaining feedback for the environmental authorization process and to provide you with relevant information about it. Your information may be shared with selected third parties for these purposes only. Please see our Privacy Policy for more information.

NAME: Johann van Niekerk	**SIGNATURE:**	**DATE:** 2023.02.07

Appendix D 8: Commenting Authority Correspondence

Anthoneth Matlala

From: NOGWANYA, MALESELA (GDARDE) [redacted]
Sent: Wednesday, 01 February 2023 10:56
To: MUKWEVHO, MULALO (GDARD)
Cc: Anthoneth Matlala
Subject: FW: GAUT 002/22-23/E3491_APPLICATION FOR AN EA FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

EXTERNAL

Good day Mulalo

Could you please assist Anthoneth with a pre-application meeting.

Regards

GAUTENG
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

From: Anthoneth Matlala <AMatlala@srk.co.za>
Sent: Tuesday, 31 January 2023 11:58
To: eiaonline.queries <eiaonlinequeries@gauteng.gov.za>
Subject: GAUT 002/22-23/E3491_APPLICATION FOR AN EA FOR THE STORAGE OF DANGEROUS GOODS IN THE STERKFONTEIN WAREHOUSE LOCATED IN OLIFANTSFONTEIN, GAUTENG PROVINCE

Good day

Kindly advise on the process of requesting a Pre-application meeting, as we tried through the On-line system, and can't seem to locate it.

Kind Regards
Anthoneth Matlala *Bsc (Hons) Environmental Management*
srk consulting
SRK Consulting (South Africa) (Pty) Ltd.
Menlyn Wood Office Park, Block A,
291 Sprite Avenue, Faerie Glen, Pretoria, GT - South Africa, 0081
PostNet Suite #177, Private Bag X20009, Garsfontien, Pretoria, GT - South Africa, 0042
Tel: +27-(0) 12-361-9821; **Fax**: +27-(0) 12-361-9912

Mobile: [redacted]; **Direct**: +27-(0) 12-361-1908
Email :AMatlala@srk.co.za
www.srk.co.za

Appendix E: Site RoD

GAUTENG PROVINCIAL GOVERNMENT

AGRICULTURE, CONSERVATION, AND ENVIRONMENT

Diamond Corner Building, 68 Eloff & Market Street, Johannesburg
P O Box 8769, Johannesburg, 2000

Telephone: (011) 355-1900
Fax: (011) 337-2292

Reference:	Gaut: 002/07-08/N0590
Enquiries:	Olivia Letlalo
Telephone:	(011) 355 1570
Email:	Olivia.Letlalo@gauteng.gov.za

Attn: Barry Hertzog
JR 209 Investments (Pty) Ltd
P.O. Box 39727
Faerie Glen
0043

Fax no: (012) 991 3038

PER FACSIMILE AND REGISTERED MAIL

Dear Sir,

APPLICATION FOR ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED INDUSTRIAL AND COMMERCIAL DEVELOPMENT ON PART OF THE REMAINDER OF PORTION 13 OF THE FARM STERKFONTEIN 401 JR (GAUT: 002/07-08/N0590)

With reference to the abovementioned application, pleased be advised that the Department has decided to grant authorisation. The Environmental Authorisation and reasons for the decision are attached herewith.

In terms of regulation 10(2) of the Environmental Impact Assessment Regulations, 2006, you are instructed to notify all registered interested and affected parties, in writing and within 10 calendar days of the date of this letter, of the Department's decision in respect of your application as well as the provisions regarding the making of appeals that are provided for in the regulations.

Your attention is drawn to Chapter 7 of the Regulations which regulates appeal procedures. Should you wish to appeal any aspect of the decision, you must, *inter alia,* lodge a notice of intention to appeal with the MEC, within 10 days of the date of this letter, by means of one of the following methods:

By facsimile:	(011) 333 0620;
By post:	P.O. Box 8769, Johannesburg, 2000;
By hand:	16th Floor, Diamond Corner Building, 68 Eloff Street, Johannesburg.

Should you decide to appeal, you must serve a copy of your notice of intention to appeal on all registered interested and affected parties as well as a notice indicating where, and for what period, the appeal submission will be available for inspection.

Yours faithfully

Dr. S.T. Cornelius
Head of Department
Department of Agriculture, Conservation and Environment
Date: 05/06/2008

CC:	Bokamoso Environmental Consultants	Attn: Fax:	Lizelle Gregory (012) 460 7079
	Kungwini Local Municipality	Attn: Fax:	Lynn Schindler 012 809 0871

Environmental Authorisation

Authorization register number:	Gaut 002/07-08/N0590
Holder of authorization:	Barry Hertzog
Location of activity:	The remainder of Portion 13 of the farm Sterkfontein 401 JR, Kungwini

Definitions

Basic Assessment means a process contemplated in regulation 22;

Basic Assessment Report means a report contemplated in regulation 23;

Environmental Management Plan means an Environmental Management Plan in relation to identified or specified activities envisaged in Chapter 5 of the Act and described in regulation 34;

Interested and Affected Parties means an interested and affected party contemplated in section 24(4)(d) of the Act, and which in terms of that section includes -
(a) any person, group of persons or organization interested and affected by an activity; and
(b) any organ of state that may have jurisdiction over any aspect of the activity.

Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake the activities specified below.
The establishment of an industrial and commercial development consisting of "Special for industrial uses/ buildings, offices and showrooms", "Special for access", "Special for access and access control", "Municipal", "Private Open Space" and "Streets" on the Remainder of Portion 13 of the farm Sterkfontein 401 JR, which falls within the jurisdiction of the Kungwini Local Municipality of the Metsweding District Municipality, hereafter referred to as "the property".
Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities Authorized

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations, 2006, the Department hereby authorises –
Barry Hertzog

with the following contact details –

JR 209 Investments (Pty) Ltd
P.O. Box 39727
Faerie Glen
0043
Tel: (012) 991 9700

to undertake the following activities (hereafter referred to as "the activity") –

The establishment of an industrial and commercial development consisting of "Special for industrial uses/ buildings, offices and showrooms", "Special for access", "Special for access and access control", "Municipal", "Private Open Space" and "Streets" in an area of 106.95 ha on the remainder of portion 13 of the farm Sterkfontein 401 JR, which falls within the jurisdiction of the Kungwini Local Municipality of the Metsweding District Municipality, hereafter referred to as "the property".

The granting of this environmental authorisation is subject to the conditions set out below.

Conditions

Scope of authorization

1.1. Authorisation of the activities is subject to the conditions contained in this authorisation, which form part of the environmental authorisation and are binding on the holder of the authorisation.

1.2. The holder of the authorisation shall be responsible for ensuring compliance with the conditions by any person acting on his or her behalf, including but not limited to, an agent, sub-contractor, employee or person rendering a service to the holder of the authorisation.

1.3. The activities which are authorised may only be carried out at the property indicated above.

1.4. Any changes to, or deviations from, the project description set out in this authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.

1.5. These activities must commence within a period of 5 (five) years from the date of issue. If commencement of the activities does not occur within that period, the authorisation lapses and a new application for environmental authorisation must be made in order for the activities to be undertaken.

1.6. This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

Appeal of authorisation

1.7. The holder of the authorisation must notify every registered interested and affected party, in writing and within 10 (Ten) calendar days, of receiving notice of the Department's decision to authorise the activities.

1.8. The notification referred to in 1.7 must

1.8.1. Specify the date on which the authorisation was issued;

1.8.2. Inform the interested and affected party of the appeal procedure provided for in Chapter 8 of the regulations; and

1.8.3. Advise the interested and affected party that a copy of the authorisation and reasons for the decision will be furnished on request.

Management of the activity

1.9. The Department requires the submission to and approval by this Department of an Environmental Management Plan (EMP) prior to the commencement of construction phase. All recommendations outlined in the EMP will be considered as an extension of the conditions of this authorisation and must be adhered to. The EMP will be binding on all managers and contractors working on site. Non-compliance with the above will constitute non-compliance with the conditions of this authorisation. The following must be included as part of the EMP and must be submitted to the Department:

a. Mitigation measures for the potential impacts expected to be generated from the proposed development during operational and construction phase of the development must be included in the EMP.
b. Feasible or practical management options, monitoring standards or workplans should be suggested or included in the EMP.
c. Timeframes associated with the construction phase of the development.
d. Feasible and executable plans must be included to address soil erosion management, monitoring of revegetation and the eradication of exotic species.
e. The name and contact details of the person or ECO (Environmental Control Officer) responsible for the monitoring of compliance to the EMP.

f. An Environmental Control Officer (ECO) must be appointed by the developer to oversee all the environmental aspects emanating from the construction activities of the development. The ECO will be further responsible for:
   - Liaison with authorities
   - Liaison with contractors
   - Undertaking routine monitoring.

g. A signed agreement stating that the developer knows and understands the contents of the revised EMP and that he/she is able and shall comply with all legislation pertaining to the nature of the work to be done and all matters incidental thereto.

1.10. Sufficient and temporary facilities including ablution facilities must be provided for construction workers operating and using the site. Such facilities must be maintained and no chemical or wastewater must be allowed to contaminate the run-off on site. Sanitary arrangements must be to the satisfaction of the local authority.

1.11. A confirmation from Local Authority regarding the provision of services (water, sewerage and waste collection) must be submitted to the Department prior to the commencement of construction activities on site.

1.12. Adequate measures must be implemented regarding the collection, removal and disposal of waste during each stage of the development from site preparation to final construction and operation.

1.13. Solid waste including excess spoil (soil, rock, rubble, etc) must be removed to a permitted waste disposal site. No solid waste may be disposed of on site. The storage of solid waste on site, until such time as it may be disposed of, must be in a manner acceptable to the Local Authority and the Department of Water Affairs and Forestry.

1.14. Industrial waste/ hazardous waste management plan for industrial/ hazardous waste that will be produced during operational phase of the proposed development must be submitted to this Department before the development. The plan must include the following:
   - Waste generation and classification;
   - Waste handling procedure (Health and Safety);
   - Full description of the container that will be used to collect the whole hazardous waste;
   - Collection and storage methods and points;
   - Treatment and disposal methods of these wastes.

1.15. No effluent (including effluent from any of the storage areas) may be discharged into any water surface or groundwater resource. Effluent discharge to the municipal sewerage system should comply with the relevant requirements and by-laws.

1.16. Municipal by-laws applicable to the proposed development must be strictly adhered to.

1.17. Appropriate notification signs must be erected at the affected areas, warning the residents and visitors about the hazards around the construction site and presence of heavy vehicles.

1.18. Compliance with Provincial noise requirements as outlined in Provincial Notice No. 5479 of 1999; Gauteng Noise Control Regulations.

1.19. The proposed site for development is underlain by dolomite, therefore all foundation recommendations from Geotechnical Engineers must be adhered to.

1.20. The existing sinkholes must be rehabilitated to the satisfaction of Geotechnical Engineers, and no development must take place on the sinkholes.

1.21. Dust generated by construction activities must be minimised by appropriate dust suppression techniques such as the use of water sprinklers.

1.17. If any graves/ archaeological sites are exposed during construction work, it should immediately be reported to a museum. The report from the archaeologist must be provided to the Department if any graves are uncovered.

1.19. Provision must be made for the adequate storage of used and contaminated substances such as oil and lubricants during the construction and operational phases of the development. The storage facilities must be designed to ensure that substances stored within them would not pose threat to the environment.

1.20. Landscaping must be as far as possible be indigenous and must as far as possible be augmented with plants naturally growing on the development premises.

1.21. If any red data species of flora and fauna are discovered on site, they may not be removed, relocated, destroyed or disturbed in any way prior to authorisation from the Department.

1.22. A rescue operation for medicinal plants is required; therefore, the Gauteng Directorate of Nature Conservation (Thabiso Mpongo (011) 355 1858) must be contacted with regards to the co-ordination of such an operation.

1.23. Rescue and recovery of herpetofauna is required; therefore, the developer must fax a "formal notification of initiation of site clearance" in a minimum of three weeks prior to the initiation of site clearance. The fax must be marked for attention:
Head: Fauna Unit
Directorate of Nature Conservation
14th Floor Glencairn Building
Fax: (011) 355 1000
The fax must include the following information:
- The DACE reference number for the application; and
- The date on which the Environmental Authorisation was issued.

Commissioning of the activity

1.24. Seven (7) days written notice must be given to the Department that the activity will commence. The notice must include a date on which it is anticipated that the activity will commence.

General

1.25. A copy of this authorisation must be kept at the property where the activities will be undertaken. The authorisation must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or agent of the holder of the authorisation who works or undertakes work at the property.

1.26. Where any of the applicant's contact details change, including the name of the responsible person, the physical or postal address and/ or telephonic details, the applicant must notify the Department as soon as the new details become known to the applicant.

1.27. The holder of the authorisation must notify the Department, in writing and within 24 (twenty four) hours, if conditions of this authorisation are not adhered to. Any notification in terms of this condition must be accompanied by reasons for the non-compliance.

1.28. Non-compliance with a condition of this authorization may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the regulations.

Date of environmental authorization: 05/06/2008

Dr S. T. Cornelius
Head of Department:
Gauteng Department of Agriculture Conservation and Environment

Annexure 1: Reasons for Decision

1. Background

The applicant, JR 209 Investments (Pty) Ltd applied for authorisation to establish an industrial and commercial development in terms of GN R. 386 [(Activities 1(k), 1(v), 16(b), 17 and 19)] and GN R. 387 [(Activities 1(a) ii, 2 and 5)] of 21 April 2006.

The project includes an industrial and commercial development consisting of "Special for industrial uses/ buildings, offices and showrooms", "Special for access", "Special for access and access control", "Municipal", "Private Open Space" and "Streets" in an area of 106.95 ha on the remainder of portion 13 of the farm Sterkfontein 401 JR.

The applicant appointed Bokamoso Environmental Consultants to undertake an Environmental Impact Assessment process which included the steps as specified under section 27 and 30 of GN R. 385 of 21 April 2006.

2. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

a) The information contained in the Environmental Scoping Report dated October 2007 and the Environmental Impact Assessment Report compiled by Bokamoso Environmental Consultants dated 2 April 2008;
b) The comments received from interested and affected parties as included in the Environmental Impact Assessment Report;
c) Departmental Geographic Information System (GIS); more specifically:
   Gauteng Information Layers and Buffer Zones for industries, sewerage treatment works, landfill sites and mine dumps; and
   Gauteng Bio-diversity Conservation plan (CPLAN 2).
d) The findings of the site inspection undertaken by Emmanuel Takalani of this Department on 15 May 2008.
e) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998).

3. Key factors considered in making the decision

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

a) The Public Participation Process was carried out according to the requirements of the Environmental Impact Assessment Regulations, 2006.
b) No objections were received from Interested and Affected Parties (I&APs).
c) The need for the proposed activities was adequately demonstrated by the applicant from a socio-economic context.
d) All alternatives were considered and the proposed site is deemed suitable for the activities.
d) No significant impacts are associated with the proposed activities.

4. Findings

After consideration of the information and factors listed above, the Department made the following findings –

a) The site is transformed and is environmentally degraded.
b) The proposed development does not require a significant extension of services outside of the existing network.
c) The site is not considered environmentally sensitive according to the Departmental information and guidelines.
d) A strong possibility exists that the activities will have minimal impact on the environment and that such impacts as may eventuate could be mitigated.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the proposed activity will not conflict with the general objectives of Integrated Environmental Management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the proposed activities can be mitigated to acceptable levels. Authorisation is accordingly granted.

Appendix F: DFFE Screening Tool Report

SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

EIA Reference number: N/A

Project name: UPL Sterkfontein warehouse for storage of Dangerous Goods

Project title: UPL Sterkfontein warehouse for storage of Dangerous Goods

Date screening report generated: 12/01/2023 17:02:38

Applicant: UPL

Compiler: SRK Consulting

Compiler signature: .....

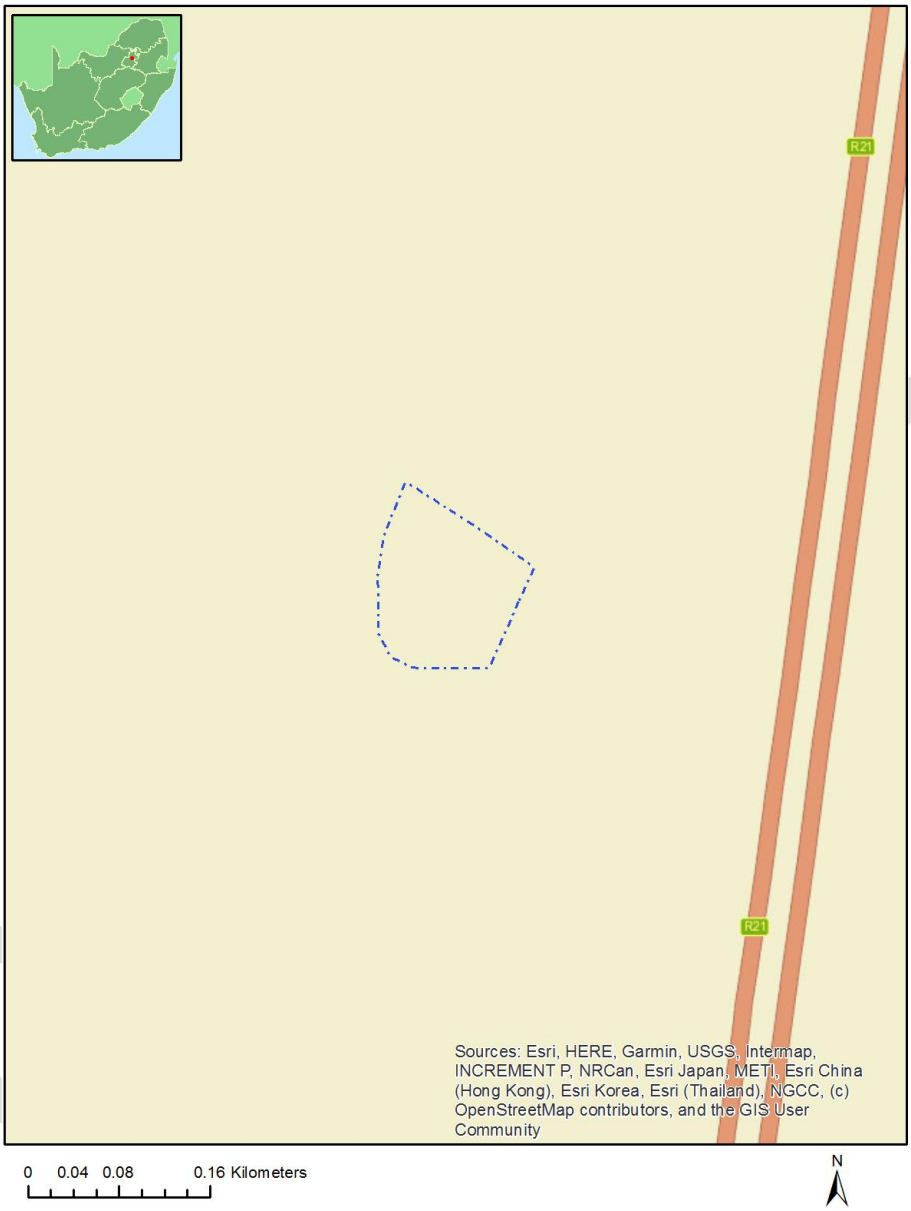
Application Category: Infrastructure|Localised infrastructure|Storage|Dangerous Goods|Chemicals

Table of Contents

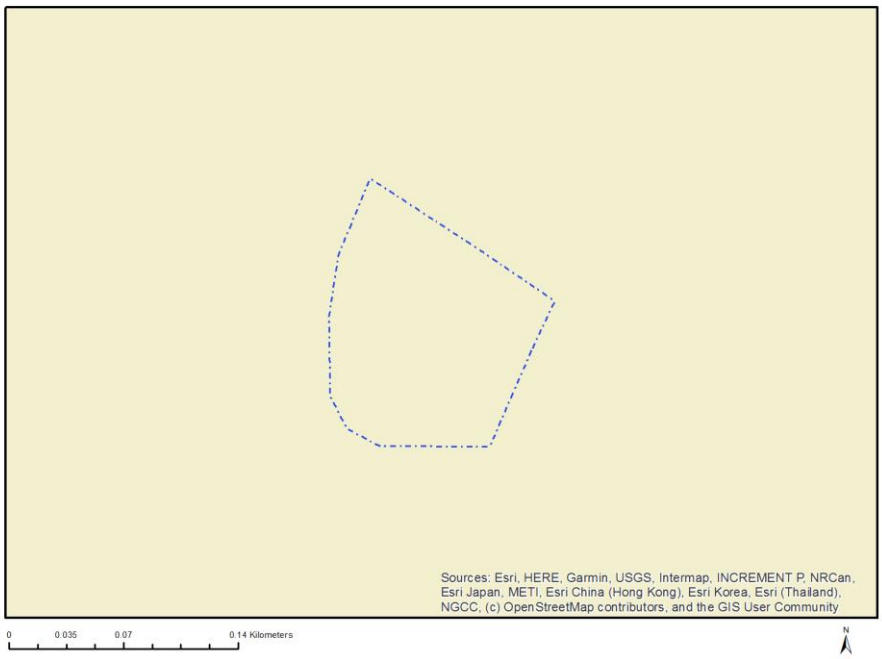
Proposed Project Location

Orientation map 1: General location

General Orientation: UPL Sterkfontein warehouse for storage of Dangerous Goods



Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	STERKFONTEIN	139	0	25°57'49.02S	28°15'8.81E	Erven
2	STERKFONTEIN	140	0	25°57'51.87S	28°15'6.96E	Erven
3	STERKFONTEIN	133	0	25°57'55.64S	28°15'3.23E	Erven
4	STERKFONTEIN	401	0	25°57'2.8S	28°15'43.21E	Farm
5	STERKFONTEIN	401	61	25°57'42.73S	28°15'4.3E	Farm Portion
6	STERKFONTEIN	401	64	25°57'51.16S	28°15'7.16E	Farm Portion

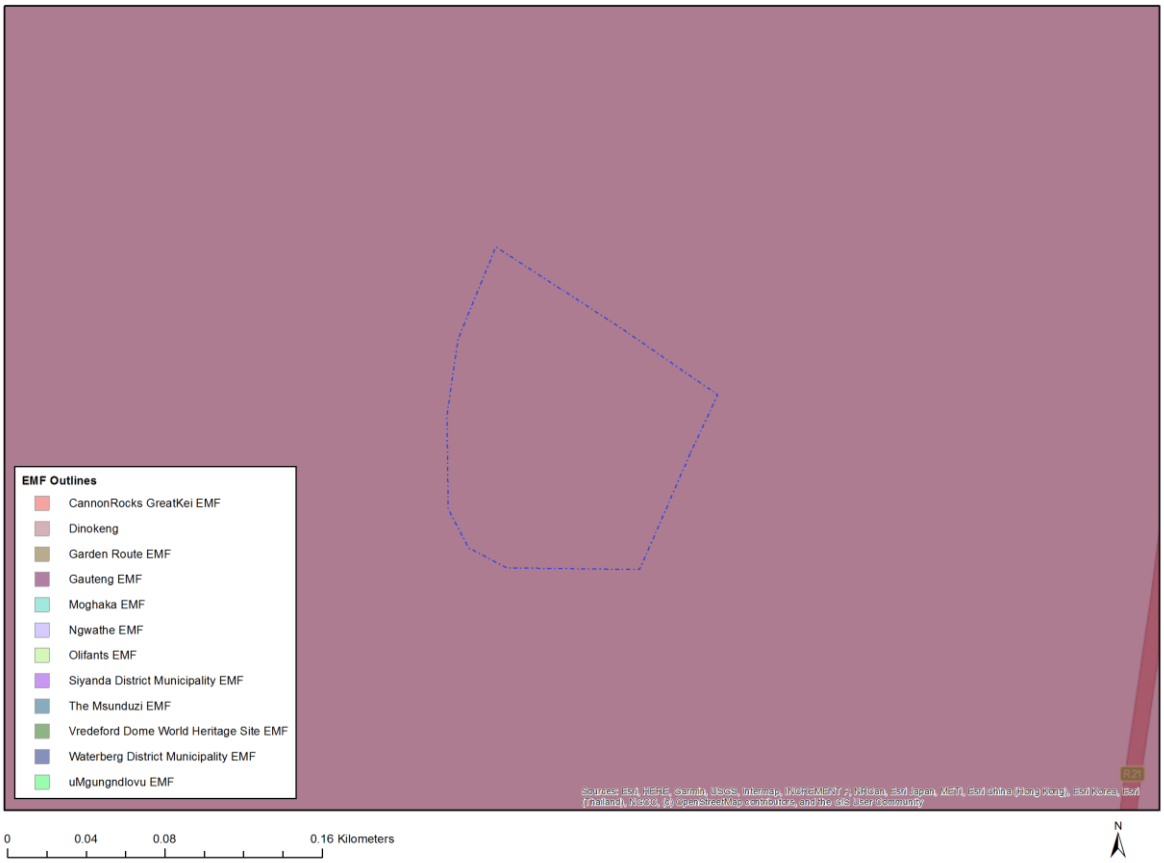
Development footprint[1] vertices:
No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

[1] "development footprint", means the area within the site on which the development will take place and incudes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

Environmental Management Frameworks relevant to the application



Environmental Management Framework	LINK
Gauteng EMF	https://screening.environment.gov.za/ScreeningDownloads/EMF/GPEMF_2021_Gazette_and_summary.pdf

Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is: **Infrastructure|Localised infrastructure|Storage|Dangerous Goods|Chemicals**.

Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf
Gauteng EMF-Industrial and large commercial focus zone 5	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Zone5_2021.pdf

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones

Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			X	
Animal Species Theme		X		

Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme			X	
Defence Theme			X	
Paleontology Theme	X			
Plant Species Theme			X	
Terrestrial Biodiversity Theme	X			

Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

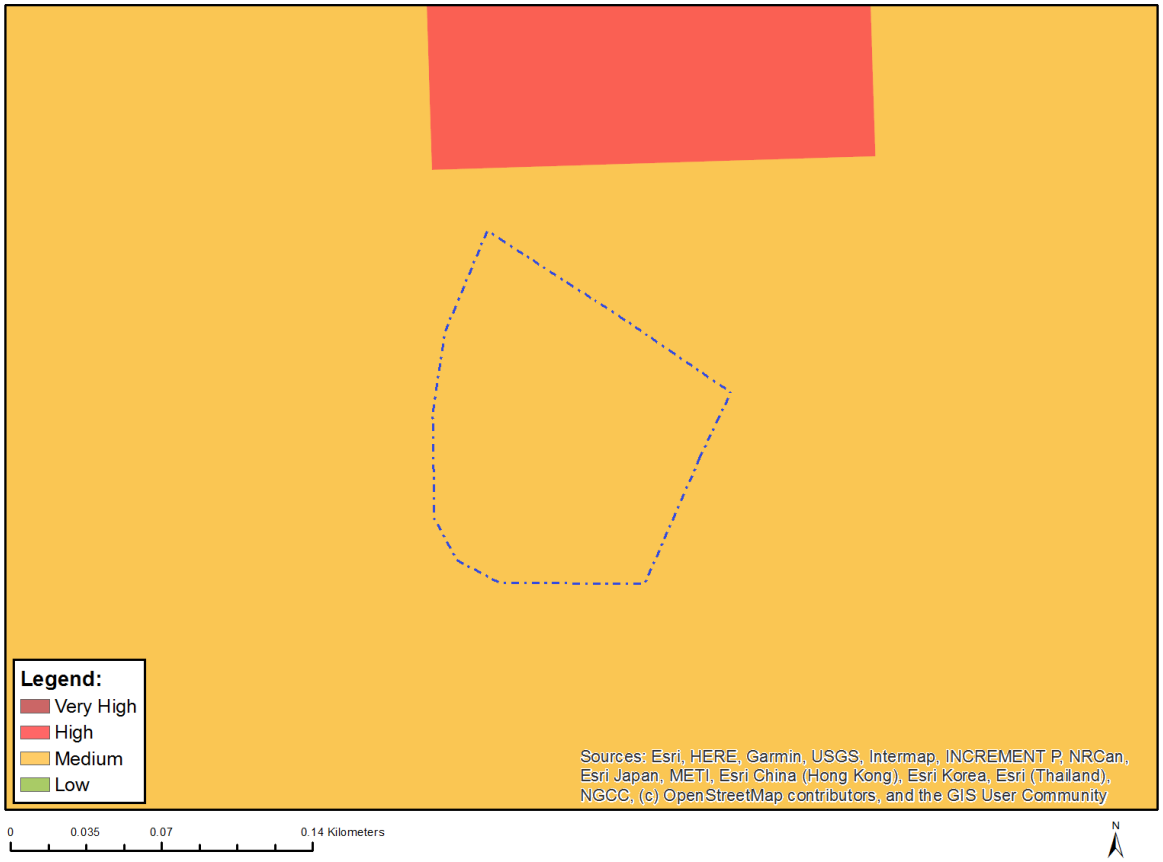
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Hydrology Assess	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

	ment	
7	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
8	Traffic Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
10	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
12	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

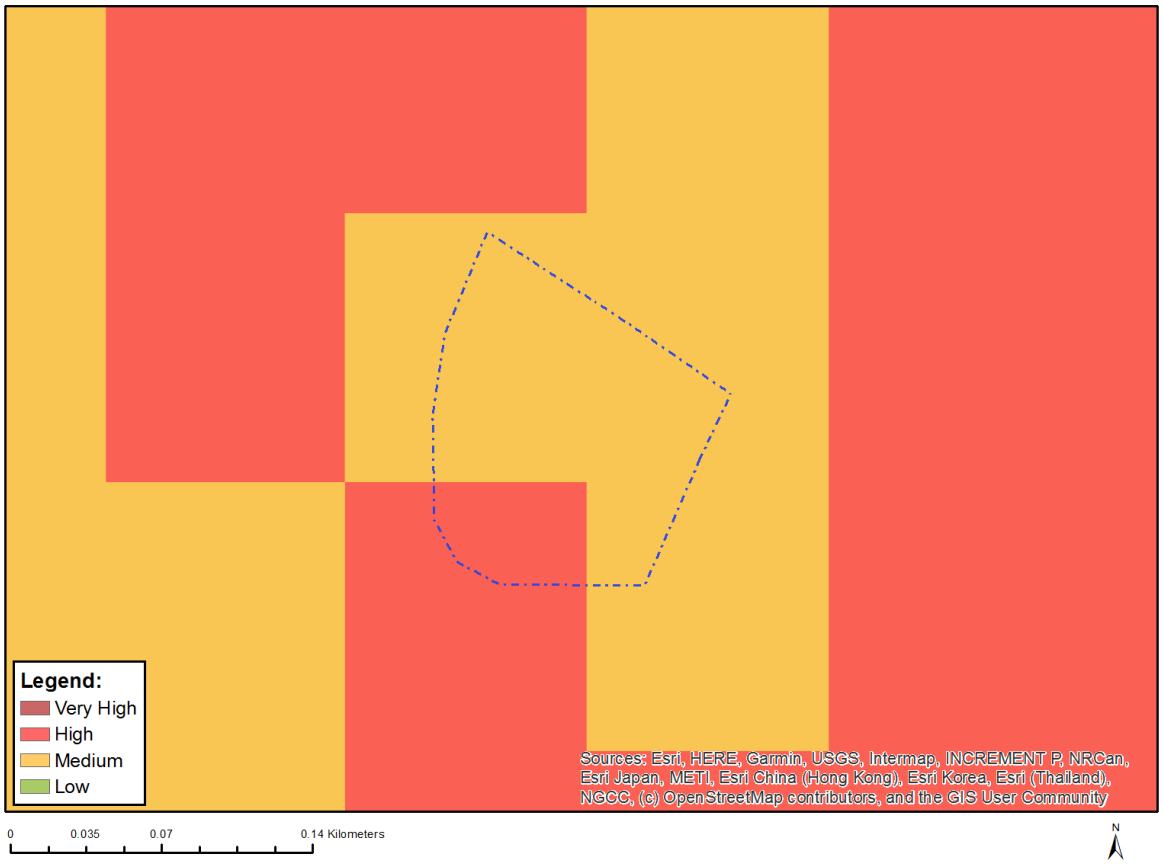


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Tyto capensis
Medium	Aves-Eupodotis senegalensis
Medium	Mammalia-Chrysospalax villosus
Medium	Mammalia-Crocidura maquassiensis
Medium	Mammalia-Dasymys robertsii
Medium	Invertebrate-Clonia uvarovi

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Strategic water source area

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Between 15 and 35 km from a civil aviation radar
Medium	Between 15 and 35 km from a major civil aviation aerodrome
Medium	Between 8 and 15 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Military and Defence Site

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Features with a Very High paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY

Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Melolobium subspicatum
Medium	Sensitive species 1147
Medium	Cheilanthes deltoidea subsp. silicicola
Medium	Dicliptera magaliesbergensis
Medium	Brachycorythis conica subsp. transvaalensis
Medium	Sensitive species 1248

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Critical biodiveristy area 2
Very High	Protected Areas Expansion Strategy

SRK Report Distribution Record

Report No.	593684/Draft Scoping Report
Copy No.	6

Name/Title	Company	Copy	Date	Authorised by
Competent Authorities				
Khaka Khaka	GDARD	1 (Hard Copy)	March 2023	HINM
Client				
Ricky Rajkaran	UPL OpenAg	2 (PDF)	March 2023	HINM
Stakeholders				
The Librarian (Dorris Mathebula)	Olifantsfontein Library	3 (Hard Copy)	March 2023	HINM
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Approval Signature: