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CaseID: 898
ALREADY on SAHRIS

14 January 2011

Attention: SAHRA

Dear: Sir/Madam

REF: ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF 16KM 132kV SMITHFIELD-KHUTHALA POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY, MPUMALANGA PROVINCE.

Please receive the attached draft scoping report for commenting purposes and the Department is given 30 days to comment starting from 20 Janaury till 20 February 2011, your comments will help to finalise the scoping report and submit to the relevant authority which is the Department of Environmental Affairs. You are receiving this Draft Scoping report because Nzumbululo Heritage Solutions identified the Witbank community as the Interested and Affected Party. Therefore those who want to comment on report please do give them a chance.

For more information do not hesitate to the contact EAP named below.

Hope you will find everything in order.

Yours truly,

SA HERITAGE RESOURCES AGENCY
RECEIVED
20 JAN 2011

Kelebogile Mogajane
Environmental Practitioner
for Nzumbululo Heritage Solutions
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DRAFT AMENDED SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF THE 16KM 132kV POWERLINE AND SMITHFIELD SUBSTATION IN OGIES, MPUMALANGA PROVINCE.

DEAT REF NO: 12/12/20/1912

HESSA REF NO: 2010.JHB.HESSA.ENV.PRO.0011

JANUARY 2011

PREPARED BY:

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4.1 REPORT DETAILS

PROJECT NAME:	EIA FOR THE PROPOSED CONSTRUCTION OF THE 16KM 132kV SMITHFIELD POWERLINE, MPUMALANGA PROVINCE.
REPORT TITLE:	DRAFT AMENDED SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF THE 16KM 132kV POWERLINE, MPUMALANGA PROVINCE.
AUTHOR: SIGNATURE:	HELLEN MLOTSHWA AND KELEBOGILE MOGAJANE
CHECKED BY: SIGNATURE:	
CLIENT REFERENCE NO.	
HESSA REFERENCE NO.	2010.JHB.HESSA.ENV.PRO.0011
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STATUS OF THE REPORT:	DRAFT REPORT
FIRST ISSUE:	SEPTEMBER 2010
P.S.P APPROVED FOR PSP BY HEAD OF DEPARTMENT: --- DATE: MAY 2010	

DEFINITIONS

"Air pollution means any change in the composition of the air, caused by smoke, soot, dust (including fly ash), cinders and solid particles of any kind, gases, fumes, aerosols and odorous substances" (Air Quality Act, 2004).

"**Alternative**" means a different means of meeting the general purpose and need of a proposed activity." (Guideline 5, June 2006).

"Construction means the building, erection or expansion of a facility, structure or infrastructure that is necessary for the undertaking of an activity, but excludes any modification, alteration or upgrading of such facility, structure or infrastructure that does not result in a change to the nature of the activity being undertaken or an increase in the production, storage or transportation capacity of that facility, structure or infrastructure;" (R386, 2006).

"Interested and affected party"- refers to:

(a) Any person, group of persons or organization interested in or affected by an activity; and

(b) Any organ of state that may have jurisdiction over any aspect of the activity;" (R385, 2006).

"linear activity- means an activity that is undertaken across several properties and which affects the environment or any aspect of the environment along the course of the activity in different ways, and includes a road, railway line, power line, pipeline or canal" (R385, 2006).

"Public participation process- means a process in which potential interested and affected parties are given an opportunity to comment on, or raise issues relevant to, specific matters."(R385, 2006).

"Plan of study for environmental impact assessment- means a document contemplated in regulation **28**(1)(i) which forms part of a scoping report and sets out how an environmental impact assessment must be conducted;"(R543, 2010).

"Significant impact- means an impact that by its magnitude, duration, intensity or probability of occurrence may have a notable effect on one or more aspects of the environment."(R385, 2006).

ABBREVIATIONS

BECSA	BHP Billiton Energy Coal South Africa
DEA	Department of Environmental Affairs
EAP	Environmental Assessment Practitioner
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
EMF	Electrical and magnetic field
EIAR	Environmental Impact Assessment Report
EMP	Environmental Management Plan
Eskom	Eskom Distribution Northern Region
HeSSA	Nzumbululo Heritage Solutions South Africa
IAPs	Interested and Affected Parties
ICNIRP	International Commission for Non- ionising Radiation Protection
MW	Megawatt
NEMA	National Environmental Management Act (Act No: 107 of 1998)
PPP	Public Participation Process
PSP	Public Service Provider
TRFR's	Transformers
NIRP2	National Integrated Resource Plan

PROPOSED CONSTRUCTION OF THE 16KM 132kV POWERLINE, OGIES IN THE MPUMALANGA PROVINCE

DRAFT AMENDED SCOPING REPORT

EXECUTIVE SUMMARY

Eskom Distribution Northern Region (Eskom) proposed a sum of 16 km 132 kV power line and switching station due to an obligation to supply electricity to its customers. The customer in this study is One of Khutala Mine, which is a relatively new mine. The mine is expanding due to its expansion applied for additional capacity of electricity. Environmental Impact Assessment (EIA) application, for the proposed development has been lodged with the Department of Environmental Affairs (DEA) with Reference number 12/12/20/1912. This Draft Amended Scoping Report focuses on the construction of 16 km 132kV powerline from Kruispunt Main Transmission Station to proposed Smithfield Switching Substation and from proposed Smithfield Switching Substation to Zondagfontein Substation. The proposed activity is within Emalahleni Local Municipality in the Mpumalanga Province.

In terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), and the associated Environmental Impact Assessment (EIA) Regulations[1] of 2006 (NEMA EIA Regulations[1]), the proposed development constitutes a 'listed activity' and must therefore undergo an EIA to inform the application for environmental authorisation. The Department of Environmental Affairs (DEA) is responsible for all applications made by parastatals and thus, DEA is the relevant authority for this project. Nzumbululo Heritage Solutions South Africa (HeSSA) was appointed by Eskom to undertake the environmental authorisation process for the proposed project in terms of the EIA Regulations.

Environmental Authorisation Process

The EIA process comprises two phases namely, a Scoping Phase and a detailed Environmental Impact Assessment Phase. The purpose of the Scoping Phase is to undertake the following activities:

- Engage all Interested and Affected Parties (IAP's);
- Obtain IAP input and comments regarding the proposed project;

[1] Government Notices R.385, R.386 and R.387, promulgated in terms of section 24 of the National Environmental Management Act, 1998 (Act 107 of 1998)

- Communicate a broad description of the preliminary biophysical and socio-economic issues related to the proposed project to all IAP's and other stakeholders;
- Describe the key project issues and alternatives identified by the proponent, consultants, authorities and the public, which may require further detailed investigations in the EIA Phase of the EIA process; and
- Provide the proposed approach to the detailed EIA Phase indicating the terms of reference for any specialist studies in the form of a Plan of Study for EIA.

The environmental application has been lodged with the Department of Environmental Affairs (DEA) and was received by the DEA. The Scoping Report was submitted to DEA and DEA requested an Amendment to the Scoping Report. The study considers three (3) options as alternatives for the power line route and a switching station.

Specialist Studies for the detailed EIA phase

The following specialist studies will be undertaken as part of the detailed EIA Phase of the process:

- Ecological impacts,
- Avifaunal impacts, and
- Archaeological and Cultural Heritage resources.

Way Forward

The issues raised during the Scoping Phase will be addressed further in the EIA Phase of the EIA process. The area is generally heavily disturbed from its original natural state due to mining, agicultural activities. No critical issues that could lead to the project being considered unfeasible from an environmental point of view are currently identified during the Scoping phase. All the alternatives identified during scoping will be carried forward to the EIA phase. The way forward for the project will be outlined in the Plan of Study for EIA, which provides the terms of reference for specialists, the impact assessment methodology to be used to rate impacts as well as clearly indicating the deliverables of the EIA Phase and the proposed timeframe.

DRAFT AMENDED SCOPING REPORT FOR THE PROPOSED 132 kV FOR ABOUT 16KM AND A SUBSTATION AT OGIES, EMALAHLENI LOCAL MUNICIPALITY

1 INTRODUCTION

Nzumbululo Heritage Solutions South Africa (HeSSA) has been appointed by Eskom Distribution Northern Region to conduct an Environmental Impact Assessment (EIA) study for the construction of 132kV power line of approximately 16 km in length and a switching station. The power line will start from Kruispunt Main Transmission Station (MTS) to Smithfield switching station and from Smithfield switching station to Zondagfontein substation. The project area is in Ogies, which is within the Emalahleni Local Municipality in the Mpumalanga Province.

The proposed activity is listed in Regulation 387:

> Activity 1 (l): *"The construction of facilities or infrastructure, including associated structures or infrastructure for the transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more."*

The above mentioned activity requires a full Environmental Impact Assessment (EIA) study according to the 2006 Regulations, to inform the application for the environmental authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA). This is because the application was made before enforcement of the new regulation on 2nd August 2010. The lead authority is the Department of Environmental Affairs (DEA) as Eskom is a parastatal. As such an EIA application was lodged with DEA (application reference 12/12/20/1912). Acknowledgement letter is attached in Appendix 1.

Nzumbululo Heritage Solutions South Africa (HeSSA) has been appointed by Eskom to conduct EIA study to meet all requirements by authorities. This presents the Draft amended Scoping Report for the proposed development.

1.1 Purpose of the Scoping Report

The EIA process comprises two phases namely, a Scoping Phase and a detailed Environmental Impact Assessment Phase. The purpose of the Scoping Phase is to undertake the following activities:

- Engage all Interested and Affected Parties (IAPs) through the advertisement and notification of the project;
- Obtain IAP input and comments regarding the proposed project;
- Communicate a broad description of the preliminary biophysical and socio-economic issues related to the proposed project to all IAPs and other stakeholders in such a manner that it is easily understandable;
- Describe the key project issues and alternatives identified by the proponent, consultants, authorities and the public, which may require further detailed investigation in the detailed assessment phase of the EIA process; and
- Provide the proposed approach to the detailed EIA Phase indicating the terms of reference for any specialist studies in the form of a Plan of Study for EIA.

This Draft amended Scoping Report will incorporate comments from the public review period. If no new, significant issues are identified, the comments and responses from the public review period will be incorporated into the Final Scoping Report (FSR). The FSR will then be submitted to DEA for their consideration.

2 EXPERTISE OF THE ENVIRONMENTAL ASSESSEMENT PRACTITIONERS

The Environmental regulation specifically requires practitioners involved in the EIA process to list their qualifications and expertise in the report. An Environmental Assessment Practitioner (EAP) appointed in terms of regulation 16 (1) is required to:

- Be independent
- Have expertise in conducting environmental impact assessments including knowledge of the Act, these regulations and any guidelines that have relevance to the proposed activity
- Perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- Comply with the Act, these regulations and all other applicable legislation
- Take into account, to the extent possible, the matters listed in regulation 13 when preparing the application and
- Disclose to the applicant and the competent authority all material information in the possession of the EAP that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority in terms of these regulations or the objectivity of any report, plan or document to be prepared by the EAP in terms of these regulations for submission to the competent authority.

The table below lists the EAP study team involved in this project. These will work with other specialists until and an Environmental Authorisation is issued by the DEA.

2.1 Details of the EAP

Name	Kelebogile Mogajane
Company	Nzumbululo Heritage Solutions South Africa
Physical Address	Unit 7 778 Richards Drive Midrand
Postal Address	P. O. BOX 4106 HALFWAY HOUSE 1685
Telephone Number	011 021 4937
Fax Number	086 544 2177
E-mail	kelebogile@mukhaha.com
Role in Project	Environmental Consultant/Practitioner

Kelebogile Mogajane has been an environmental practitioner with six (6) years experience and has worked on various environmental projects. She holds Honours of Bachelor of Science in Environmental Monitoring and Modelling. Her curriculum vita (CV) is included in Appendix 2.

Name	Helen Mlotshwa
Company	Nzumbululo Heritage Solutions South Africa
Physical Address	Unit 7 778 Richards Drive Midrand
Postal Address	P. O. BOX 4106 HALFWAY HOUSE 1685
Telephone Number	011 021 4937
Fax Number	086 544 2177
E-mail	hessa5@telkomsa.net
Role in Project	Environmental Consultant/Practitioner

Helen Mlotshwa has been an environmental officer for three (3) years within HeSSA. Her CV is included in Appendix 2.

2.2 Detail of applicant

Table 2.1: Details of the applicant

Name	Palesa Kuaho
Company	ESKOM DISTIBUTION NORTHERN REGION
Postal Address	P.O. Box 23 Witbank 1035
Telephone number	013 693 3146
Fax number	086 539 3015
Email	kuahop@eskom.co.za
Role in Project	Project Manager

3 DESCRIPTION OF THE PROPOSED PROJECT

3.1 Project Location

The proposed area for project is located on the following farms, Portion 1, of the farm Smithfield 44IS, Portion 2, of the farm Smithfield 44IS, Portion 3 of the Smithfield 44IS, Portion 1 of the Farm Nasmanus 132IS, Portion 14 of the farm Rietvlei 62 IS, Portion 9 of the farm Nooitgedacht 37 IS, Portion 8 of the Farm Nooitgedacht 37 and Portion 15 of the farm Nooitgedacht 37IS.
These farms are within Ogies, Emalahleni LM. This is within the Nkangala District in Mpumalanga Province of South Africa. Emalahleni LM comprises of both rural and urban areas. It consists of large farms, dispersed urban settlements, coalmines and power stations.

The powerline will run parallel the existing powerlines. The study area is located at the following co-ordinates readings: S26° 12' °28.9" and E029° 05' 25.0"; S26° 11' 55.3" and E29° 05". 20.7; and S26° 10 18.3 and E029°02', 52.8". More pictures of the study area attached in Appendix 4.

3.2 Layout and design

The proposed project includes the following activities:

- Build a132 kV lines from Kruispunt MTS to the proposed Smithfield switching station. This will be approximately 6 km.
- Build 132 kV power line from proposed Smithfield substation to Zondagsfontein substation, which will be approximately 10 km.
- **Modifications at Zondagfontein Substation**
    - Establish a 132kV feeder bay at Zondagsfontein SS
    - Build a 6km Chickadee line from Zondagsfontein to Smithfield
    - Establish a 20MVA 132 kV switching station at Smithfield
- **Modifications at Kruispunt MTS**
- Establish a 132kV feeder bay

A schematic diagram of proposed powerline is attached in Appendix 3.

3.3 PROJECT MOTIVATION

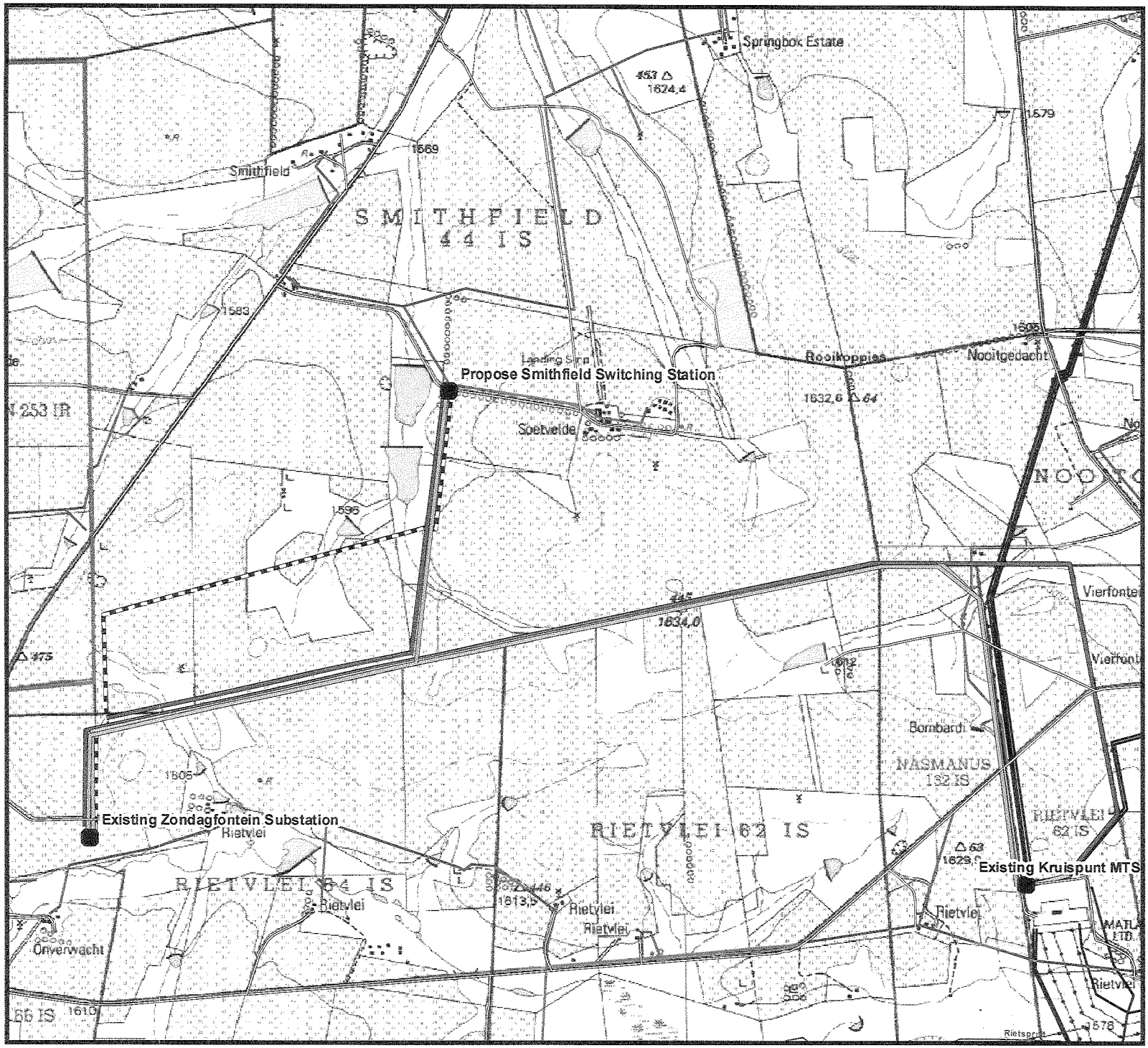
Khutala Colliery is part of BHP Billiton Energy Coal South Africa (BECSA), a wholly owned subsidiary of

BHP Billiton. Khutala Colliery is an existing operational colliery, authorised in terms of the Minerals Act (Act 50 of 1991), and is situated south-west of the town of Ogies, in the Mpumalanga Province of South Africa.

Khutala Colliery is contractually bound to provide the adjacent Kendal Power Station (operated by Eskom) with 13.3.Mt coal per annum until the year 2033. Kendal Power Station is a 4, 100-megawatt (MW) power station comprising of six units. Due to the increased demand for electricity in southern Africa, the Kendal Power Station is planning to burn more than the contractually required 13.3.Mt/a of coal for the remainder of the contract period. The power station's demand for coal for 2006 is more than 15Mt and is anticipated to increase to 16.2 Mt/a from 2010 to the end of the contract in 2033.

In order to ensure that Khutala Colliery will be able to supply the increased amount of coal for the remainder of the contract period, Eskom and BECSA are in the process of completing the optimisation of all resources at Khutala Colliery. The Khutala Mineral Optimisation Project aims to ensure adequate coal supplies in the medium to long term and is currently at a pre-feasibility study level.

To allow Khutala to supply the increased demand in the short term ESKOM and BECSA have identified a significant coal resource associated within the existing mineral rights boundary, which BECSA have proposed to mine. The Khutala Southern Access project aims to fast track the development of access to underground workings in the south of Khutala so as to assist in aiding the supply of coal to Kendal to meet the increased demand over the short term. Currently the existing man and material facilities are located up to 12km from the underground workings, with ventilation in the south also becoming an increasing issue of concern.



Map Title:

Topsheet 1:50 000 Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo

3.4 TECHNICAL DETAILS OF THE PROPOSED POWERLINE

The proposed power line will be approximately 16 km long and mono type structure are being considered for use during the construction in different sections of the line depending on landscape features (see attached monopole structure).

3.4.1 Substations

The minimum size required for the substation is 100m x 100m. Detailed design about the substations will be determined during EIA phase.

3.4.2 132kV Powerlines

The proposed power line will be about 16km long and the type structures to be used are the monopole steel structures.

3.5 Proposed Activities and Project Timeline

The activities for the construction and operation will be finalised during EIA phase. Design details of the powerline and substation will also be finalised during EIA phase.

3.5.1 Preconstruction

The project is currently on the preconstruction phase where the EA study is conducted. This study includes describing the project, determining the project alternatives, environmental management plan for the proposed project Reported in the EIA report), and obtaining permits from landowners (through EIA study). These will be produced in reports (Scoping and EIA), which are part of the EA studies and will inform authorities in making their decision. When the project is approved and Record of Decision is provided, the project will need to be advertised and await objections from IAPs for 30 days. From there, the construction phase can commence.

3.5.2 Construction

As illustrated above, construction will commence once pre-construction is completed. Construction is estimated to take about 12 months. We currently envisage construction to begin in 2013. The construction activities for the proposed development will include the following activities.

Access roads

Because the proposed powerline will go along the existing powerlines, there will be no need for access roads. However, where there is no access road, the access road will be made. The access road will be gravel and constructed for vehicles. This access road will be along the entire length of proposed powerline. It will be used for construction phase and operation, which will be mainly for maintenance. The information about the access point and exact route for the access road will be negotiated and finalized with the landowners during pre-construction phase, which is EA study.

Construction Camp

The construction camp will be constructed at the nearest appropriate area to the three proposed location of substation. The exact locations will be negotiated and finalized with relevant owners during pre-construction (EIA study).

Construction of distribution powerlines

The following activities will be conducted as part of constructing the transmission powerlines:

- Survey of the route for the powerline
- Selection of best-suited structures and foundations
- Final design of powerlines and placement of towers
- Issuing of tenders and award of contract to construction companies
- Vegetation clearance and construction of access roads (where required)
- Pegging of structures
- Construction of foundations
- Assembly and erection of structures
- Stringing of conductors
- Rehabilitation of disturbed area and protection of erosion sensitive areas
- Testing and commissioning

Stringing of Conductors

There is a guide wire, which is used to string the conductors between towers. This can be undertaken mechanically or by hand. The line will generally be strung in sections. There will be cable drums placed at 2 km intervals during this stringing process. In order to minimise any potential negative impacts on the surrounding area, these cable drums are placed within the servitude.

3.5.3 Operation and maintenance

The operation and maintenance of the transmission powerline including the three substations will be on-going process for the entire period while electricity will be distributed. Powerlines and substations will be monitored and managed according to Environmental Management Plan that will be provided in EIA phase.

4 STATUTORY REQUIREMENTS

The proposed development is guided and governed by legislative Acts and guidelines (Table 4.1) In addition, EIA studies for electricity generation, transmission and distribution projects are also guided by additional Eskom guidelines and policies.

Table 4.1: Environmental statutory requirements

ACT	ACT NO	REMARKS
Atmospheric pollution prevention Act	45 of 1965	Controls all forms of air pollution. -smoke control zones -dust control -air pollution from waste
National Forest Act	84 of 1998	Provides measures for the protection of certain forests and trees
Advertising on roads and ribbon development Act	21 of	Prohibits the depositing or leaving of certain articles or materials near certain roads -structures near roads -waste near roads
Conservation of Agricultural Resources Act	43 of 1983	Controls the utilisation and protection of wetlands, soil conservation, control and prevention of veld fires, control of weeds and invasive plants.
Agricultural Pests Act	36 of 1983	Provides control to prevent and combat agricultural pests, including importation of exotic plants and animals
National Veld and Forest Fire Act	101 of 1998	Deals with the establishment of fire protection Associations, responsibilities for the preparation and maintenance of fire breaks
National Environmental Management Act	107 of 1998	Provides for cooperative environmental governance by establishing principles for decision making on matters affecting the environment.
Environment Conservation Act	73 of 1989	Provides control for the effective protection and utilisation of the environment, littering, waste disposal, noise and various other activities, which may have a detrimental effect on the environment -provides for waste management
Fencing Act	31 of 1963	Prohibits damage to property owners gates and fences Prohibits climbing or crawling over or through fences without permission
Hazardous Substances Act	15 of 1973	Sale of group I, II, III and letting, use, operation, application and installation of group III hazardous substances. Transportation of

		hazardous substances.
Health Act	63 of 1977	Control of health aspects of waste disposal and water treatment Regulates , rubbish, sewage
National Roads Act	54 of 1971	Prohibits disposal of waste near National roads
Occupational Health and Safety Act	85 of 1993	Protects workers from exposure to hazardous substances and working conditions
National Heritage Resources Act	25 of 1999	Controls for the protection of natural and historical resources.
National Water Act	36 of 1998	Provides for all aspects relating to pollution of surface

The construction of power line, according to NEMA (Act 107 of 1998), Government Notice No. R544, falls within listed activities that require statutory impact assessment studies prior to the development being approved.

Table 4.1: Listed activities within Government Notice No. R386 of April 2006

Government Notice and activity number	Description of the Listed activity (in terms of the government notice)	Description of the proposed activity
No. R387: 1(L)	The construction of facilities or infrastructure, including associated structures or infrastructure, for transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more.	Construction of a 132kV powerline

Bearing in mind the above regulations and listed activities, the proposed development requires scoping and a full EIA process. Following the submission and acknowledgement of the EIA application by DEA (Reference No 12/12/20/1912), scoping study for the project was formulated in line with the applicable regulation to achieve the following:

a) Conduct at least the public participation process set out in regulation 54-57
b) Give notice in writing of the proposed application to any organ of state which has jurisdiction in respect of any aspect of the activity
c) Open and maintain a register of all interested and affected parties in respect of the application in accordance with regulation 57
d) Consider all objections and representations received from interested and affected parties following the public participation process
e) Subject the application to scoping by identifying
    i. Issues that will be relevant for consideration of the application
    ii. The potential environmental impacts of the proposed; and
    iii. Alternatives to the proposed activity that are feasible and reasonable
f) Prepare a scoping report in accordance with regulation 28; and give all registered interested and affected parties an opportunity to comment on the scoping report in accordance with regulation 57

4.1 ESKOM GUIDELINES

The following Eskom guidelines are also relevant to the proposed development:

- Air quality management policy (ESKPBAAA3)
- The control of dust exposure within Eskom (ESKADAAD6)

- Environmental Impact Assessment (ESKPVAAL7)
- Passive fire protection for oil filled equipment in high voltage yards (FSGASAAQ8)
- Standard for bush clearance and the maintenance of overhead powerlines (ESKASABG3)
- Guidelines for weed eradication at Eskom substations using herbicides (TRR/S.92/034)
- Oil spill clean-up and rehabilitation (ESKAGAAD7)

5 DESCRIPTION OF STUDY AREA

Information on the following environmental aspects was obtained from the existing primary and secondary data sources combined with information recorded in a reconnaissance survey and preliminary site visits. It must, however, be noted that the study area has been transformed and affected by current and previous land use activities and as such, it is no longer a pristine environment. At present, the dominant activities include commercial agriculture, Substations, mining and human settlement. As a result, a great deal of the natural vegetation within the study area has and is being transformed and subjected to severe pressure as a result of the aforementioned activities. The proposed power line will link the substations i.e. Kruispunt MTS, Zondagfontein substation and Smithfield switching station. The study primarily focussed on the 16 km long corridor for proposed line and the powerline runs parallel the existing lines.

5.1 BIODIVERSITY

5.1.1 Fauna

Very little pristine vegetation is present on site. A small patch of indigenous vegetation is present adjacent to existing Kruispunt MTS .The area is predominantly used for agricultural purposes and for mining purposes, the powerline will run through maize field as shown plate 1 below.

Plate 1: Maize field on site

Apart from birds and cows, no other faunal species were noted during the field visit.

5.1.2 Birds

Birds are the faunal group that are the most impacted by Eskom powerlines due to the occurrence of bird strikes and electrocutions. The lines for this proposed development, 132kV, do not result in electrocutions due to the large distances between the lines. Strikes do however occur with the thin/ ground wire that is present on these lines. This wire is very thin and is this not as visible as the electrical conductors. Eskom thus place flappers on these earth wires, which draw attention to the wire and thus reduce collisions. Birds are thus of great importance to Eskom and much emphasis is placed on options to reduce collisions.

By nature, powerlines can have an impact on birds as birds may inadvertently fly into the powerlines, thus becoming seriously injured or being killed, or they may be electrocuted if their wingspans touch live conductors. Birds such as owls, ducks, ibises and a number of raptors have been recorded to have caused power outages due to being electrocuted. If individuals from an endangered/ very rare species are killed/ injured through interaction with powerlines, this may have a significant impact on the population, especially in the case of a number of larger bird species, which are slow breeding and late-maturing (Ledger, 1988).

In addition, birds may affect the electricity supply and may cause disruptions to electricity and may cause disruptions to electricity supply.

5.2 CLIMATE

The climate of the area can be described as temperate, with moderate summers and cold winters with sharp frost. On average the area experience 8.3 hours of sunshine per day and only nine days a year without sunshine. The mean daily maximum temperature is 25.8°C in January (mid-summer) and 17.1°C in July (mid-winter). The average daily minimum temperature is 13°C in January and 0.2°C in July. The annual rainfall, which falls mainly during summers, varies from 550mm to 800mm and the rainy seasons extends from October through to April when 90% of the rainfall occurs. Rainfall peaks for the area occurs in December and January. During dry winter months of June, July and August only 3.5% of the rainfall occurs (Duthie 2006).

5.3 LAND USE

The project area is predominantly a mining area and agricultural activities thus the majority of the land is used for mining and agricultural purposes activities products grown include commercial and subsistence crops such as maize, sunflower and bean production. Relatively large land portions within the project can be classified as degraded. And also some sections have been disturbed by past impacts (e.g. access roads, construction of the mine and the substations, boundary fence lines, distribution and transmission powerlines, etc.

5.4 GEOLOGY

The geology of the area is made up of the Karoo Super group. All that remains of this Super group are the lower horizons of the Dwyka Formation and the Ecca Group, averaging about 100 metres in thickness.

Of the Ecca Group, the Middle Vryheid Formation contains the highest concentration of coal seams. These seams represent the five major coal horizons mined at Khutala Colliery. Underlining the Ecca Group is the Dwyka Formation which consists of light grey micaceous tillite overlain by diamictites and

varied shales. These sediments may vary in thickness from zero to 30 metres and may contain insertions of coal. The base of the Karoo Super group is laid by the pre-Karoo Basement, consisting mainly of felsite, granite, volcanic tuff and breccia.

5.5 EXISTING INFRASTRUCTURE

The study area is within a mining area and agricultural area hence the existing infrastructure is quite limited. There is an access road (Plate 2) and the 132kV powerlines running through the study area, which service the Zondagfontein mine.

Plate 2: Existing access road and the powerlines

5.6 NOISE

The ambient noise level of the project area derives from traffic from and to the mines and also from agricultural activities.

5.7 WATER FEATURES

The water features on site as shown by the picture below, the water feature is found near the Khutala-Smithfield proposed substation. Predominantly moderately modified with a smaller percentage of the wetlands occurring in a largely natural state with a few modifications. Causes of the modifications are largely due to agricultural practices, including damming, cultivation and livestock farming (Marneweck and Batchelor, 2004). Other impacts include infrastructure development, such as roads and mining activities. The co-ordinates of the water feature are S26° 10 14.7 E029° 02 45.5 (Plate 3).

Plate 3: The water feature on site

5.8 AIR QUALITY

The current powerlines are not currently a source of any potential air pollution. The nature of the proposed development entails that it is unlikely that there will be any activities during the operational phase of the development which are likely to generate any emissions, and that would thus be likely to cause air pollution in the surrounding area.

The only potential source of air pollution for sensitive receptors surrounding the site (these would be likely to be surrounding farmlands and Eskom employee dwellings) from the proposed development

would be dust that may be generated during the construction phase. Dust levels depend on the type and level of construction activity being undertaken as well as the prevailing meteorological conditions. Dust emissions are typical caused by land clearing, drilling, blasting and cut and fill operations. The excavation for new development is likely to generate dust, which may travel into surrounding farmlands areas.

However mitigation measures, which will be put in place during the construction phase, are likely to prevent dust from affecting areas beyond the boundaries of the site. The Environmental Management Plan will specify measures such as the damping down of exposed surfaces to prevent dust travel.

5.9 HUMAN HEALTH CONCERNS

A question that is regularly raised by interested and affected parties is whether the installation of powerlines will have a detrimental medical affect on these living in close proximity of the lines. In 2006 Eskom Holdings commissioned and independent study conducted by Empetus Close Corporation to assess the effect of electric and magnetic fields on the surrounding environment.

The report highlights that all household appliances and other electrical equipment generate electrical and magnetic field (EMF), and thus people are generally exposed to varying levels of EMF in their daily lives at work and at home.

EMF is always created, in varying levels, with the generation of electricity and the frequency of the electrical power system. Overhead powerlines generate electric and magnetic fields. The table below indicates the electrical field that are generated by various Eskom powerlines, which are used in South Africa.

Table 5.1: Summary of typical electric fields levels measured in the vicinity of Eskom Powerlines (Empetus Close Corporation, 2006)

VOLTAGE (kV)	MAX ELECTRIC Field (V/m)	ELECTRIC FIELD AT SERVITUDE (V/m)	SERVITUDE WIDTH (m)
132	1,300	500	15,5
275	3, 000	500	23,5
400	4,700	1,500	23,5
765	7,00	2,500	40,0

Table 5.2: Summary of typical magnetic field levels measured in the vicinity of Eskom powerlines (Empetus Close Corporation, 2006)

Voltage (kV)	Current	Max Magnetic field	Magnetic field at Servitude Boundary	Servitude Width
132	150	4,0	1,0	15,5
275	350	6,0	1,0	23,5
400	650	10,5	2,5	23,5
765	560	6,0	1,5	40,0

The above tables illustrate that the electric and magnetic fields fall lower levels with an increase in distance from the line. The main concern that is raised with regard to powerlines is that they are thought to increase chances of cancer. No evidence of a causal relationship between magnetic field exposure and childhood leukaemia or breast cancer has been found and no dose- response relationship has been shown to exist between EMF exposure and biological effects.

The report concluded that according to findings of studies on the effects of electric and magnetic fields on plants with levels typical of a power line environment, complying with the requirements for proper servitude management as prescribed by the electric utility, are unlikely to affect plants in terms of growth, germination and crop production.

The guidelines for electric and magnetic field exposure set by the International Commission for Non-ionising Radiation Protection (ICNIRP) receives world wide support and are endorsed by the Department of Health in South Africa. Calculations of electric and magnetic field levels created by overhead powerlines have shown that areas where members of the public may be exposed at the servitude boundary and further away from the line are well within the ICNIRP guidelines. Where field levels exceed the ICNIRP guidelines within the servitude, techniques exist to reduce the field levels.

The proposed development is near a residential dwelling and thus it is not anticipated to result in any impacts in this regard as Eskom Northern Region is in the process of relocating the dwelling.

5.10 CONSTRUCTION CAMP

The proposed power line will require the erection of a temporary construction camp. Due to the small nature of this project the construction camp will also be small and will be located within the existing

boundaries. The EMP will include strict mitigation measures, which will manage the construction camp during construction. Eskom and the independent contactors both appoint Environmental Control Officer (ECO), who will be responsible for the implementation of these measures. Due to these mitigation measures, the presence of a construction camp is not expected to impact negatively on the Socio economic environment of the site.

6 DISCUSSION OF THE PROJECT ALTERNATIVES

This section considers the three alternative routes for the power line and the proposed switching station. The preferred route for the power line is option 1. Explanations and discussions as to why option 1 is preferred, are discussed in different alternative options as discussed here below. This section include strategic, technical, site, route and no go option alternatives.

6.1 STRATEGIC ALTERNATIVES

As part of the planning exercise, Eskom Distribution Northern Region investigated a different alternative to the proposed power line. They identified the preferred technical and cost effective options for the proposed development. The power line will be approximately 16 km long traversing through terrain of uniform environmental sensitivity. Hence, preference is given to developing a power line running directly from and to the substations. The shortest possible route will also ensure minimum impact on the receiving environment.

It is a strategic project to propose construction of powerlines and switching station plus modifying existing substations. This will have business implication to Khuthala Colliery if not developed. Option 1 for both 6km from Smithfield switching station to Zondagfontein and 10 km from Smithfield switching station to existing Kruispunt MTS is also strategic as it will have limited impact as it will be along existing power line.

6.2 TECHNICAL ALTERNATIVES

The main technical alternative to the overhead powerlines is the possible 'under grounding' of the powerlines. At present, there are no underground high voltage lines in South Africa due to costs. There are both environmental and cost implications of this option that are described in more detail in several other studies for similar developments. This alternative has not been considered further in this study of the power line. There is no technical alternative to the proposed power line and construction of switching station hence the only option for power line is above ground using the standard pylon designs with spans of cable between them.

6.3 SITE ALTERNATIVES

The Smithfield switching station has limited alternative area, this is because it needs to be within the Khuthala mining area, which is the place, the proposed powerline will provide with electricity. The Mine has limited options within its boundaries due to the mining activities.

Alternative sites identified for the powerlines still fall within the following farms Portion 1, of the farm Smithfield 44IS, Portion 2, of the farm Smithfield 44IS, Portion 3 of the Smithfield 44IS, Portion 1 of the Farm Nasmanus 132IS, Portion 14 of the farm Rietvlei 62 IS, Portion 9 of the farm Nooitgedacht 37 IS, Portion 8 of the Farm Nooitgedacht 37 and Portion 15 of the farm Nooitgedacht 37IS. Please refer to above attached locality map Figure 1, Appendix 3 and Appendix 4.

The sites for the power line routes are limited to the identified farms due to the fact that it is better to have short direct power line than to have long power line. If power line route uses other sites, more impact and cost will be incurred.

6.4 ROUTE ALTERNATIVES

The alternative routes for the power line will link the substations; the preferred route (Option 1) will be the shortest between the three substations and along the existing powerlines. This is particularly because the line will traverse through a generally uniform landscape and the shortest route will ensure minimum invasion. All three options for the routes will be considered through the EIA study.

1. Preferred power line (Option 1)

The preferred site for the location of the power line as the area comprises of flat topography, dominated by agricultural activities. No major and significant impacts are anticipated on this site. The power line will also follow the existing powerlines of the 132kV power line and there are no impacts associated as the powerlines already exists and further more it will run parallel the existing powerlines as shown by the picture below.

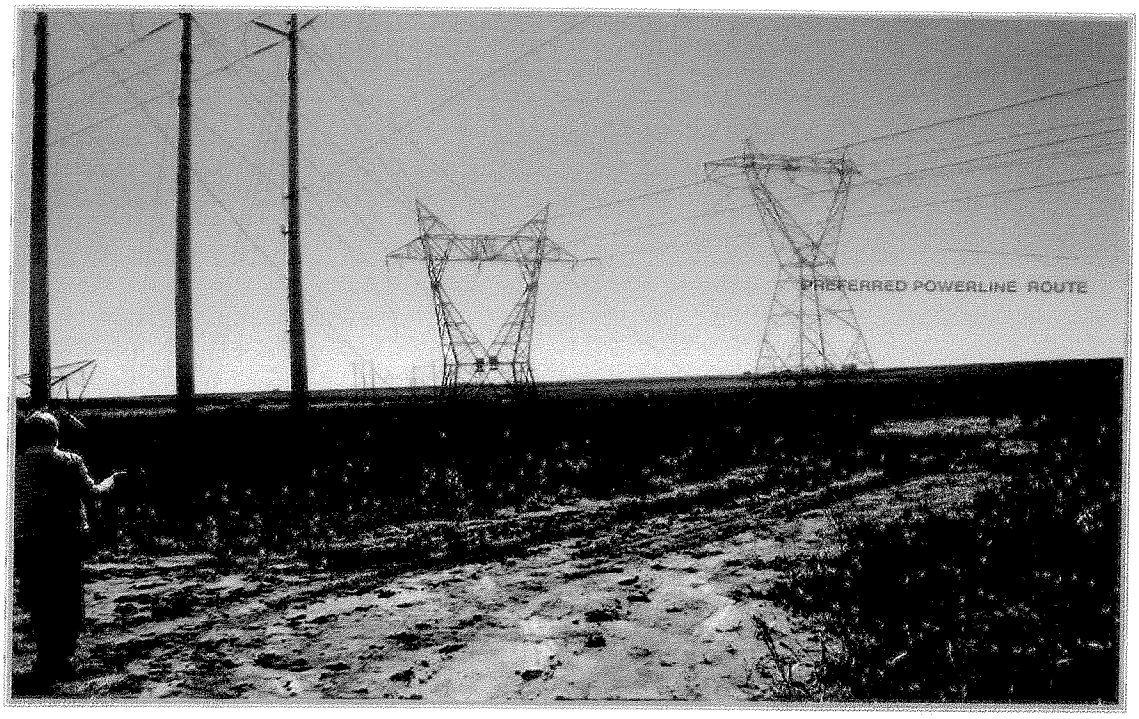


Plate 4: The preferred power line route, which will run on the right of the existing powerlines

2. Alternative powerlines (Option 2 and 3)

The alternative site for the location of the power line as the area comprises of flat topography, dominated by agricultural activities. No major and significant impacts are anticipated on this site. The power line will also follow the existing powerlines of the 132kV power line and the power line has bends, which can create more bends. More the bends are costly for the construction of a power line and the more impacts associated with the construction of a power line.

Based on the above discussion, the preferred sites would be the most feasible sites for the location of the power line as the area comprises of flat topography and does not have a lot of bands as the longer the power line route the increase on the impacts.

6.5 DEMAND ALTERNATIVES

Due to the increased demand for electricity in southern Africa, the Kendal Power Station is planning to burn more than the contractually required 13.3.Mt/a of coal for the remainder of the contract period. The power station's demand for coal for 2006 is more than 15Mt and is anticipated to increase to 16.2Mt/a from 2010 to the end of the contract in 2033.

6.7 POTENTIAL ENVIRONMENTAL IMPACTS

The scoping process identified some of the potential impacts anticipated during the proposed construction of 132 kV power line of approximately 16 km. The impacts described below are not exhaustive as the process is ongoing. The impacts described below in most cases, apply to all the sites both the preferred site and identified alternative. The preferred and alternative site all fall within the same homogenous landscape and biophysical environmental outlook. Nonetheless, the proposed development will certainly alter the current state of the environment that exists in the project area. The following are possible impacts that may be anticipated from the proposed development:

- Impact on birds' life;
- Floral destruction;
- Visual intrusion;
- Impacts on archaeological, palaeontological and other physical cultural resources
- Health and safety and security risks
- Ecological intrusions

6.8 BIODIVERSITY

Biodiversity is an important environmental component. It is essential for the regulation of natural processes that support human life such as soil formation.

Vegetation will be cleared for the construction camp as well as for the servitude; this will result in loss of species that depend on the grassland. There will be habitat loss and degradation as a result of the vegetation clearance and natural environmental processes such as soil erosion will be affected. As shown in the plates above (description of affected environment chapter) the proposed site and alternatives do not have much vegetation cover, hence vegetation clearance will be minimal.

As a result of the noise during construction activities, animal species may migrate in search of other habitat; this may disturb the ecosystem in the area. In addition, birds may be electrocuted by power line in three possible ways. The possible ways are: simultaneously touching two live wires and simultaneously an energised wire and any other piece of equipment on a pole or tower that is bonded to the earth through a ground wire.

6.9 LAND USE

Current or future land uses may be affected due to the proposed construction of the power line. Powerlines usually run across various property boundaries and livestock camps. Boundary fences may be damaged during construction or gates may be left open resulting in the unplanned integration of livestock. The land earmarked for the proposed development is currently mine land and other areas are farmlands and are used for subsistence farming thus the construction of the power line will result in changes of the land use.

6.10 VISUAL IMPACT

All construction activities would involve the use of variety construction equipment, stockpiling of soils, materials and other visual signs. While evidence of such will be visual to the farm owners and others in the nearby vicinity, such visual disruptions will be short term and limited to the construction phase only.

6.11 ARCHAEOLOGICAL/HERITAGE RESOURCES

Cultural heritage resources can be broadly defined as physical features, both natural and man-made, which are associated with human activity. Heritage resources would include both tangible and intangible resources such as archaeological resources, palaeontological remains, meteorites, historical sites and beliefs systems, religious practices, ideas and oral traditions respectively. The National heritage Resources Act (Act No.25 of 1999) regards the following as heritage resources:

- Places, building structures and equipment,
- Places to which oral traditions are attached
- Places which are associated with living heritage
- Historical settlements and townscapes
- Landscapes and natural features
- Geological sites of scientific or cultural importance
- Graves and burial grounds.

Any development that alters the status quo has the potential to impact upon any of the listed heritage resources particularly during construction phase.

6.12 WATER RESOURCES

Construction grading and utility excavations for the pylons would increase the sediment load in storm water during rainfall events. Sediment sources created during construction include soil stockpiles and soil tracked across construction areas, debris resulting from the installation of electric pylons foundation. These sediment loads could be deposited into the water bodies close to the site. Due to the vast spatial extent of power line developments, it is often impossible for the power line corridor not to cross over water bodies such as rivers and wetlands. Construction activities within the vicinity of these water bodies create problems if care is not taken to prevent them. These range from erosion into rivers, which creates water pollution to draining of wetlands in order to give way for the construction equipment. Some of the construction equipment could be located within floodplains and/or within 1:50 year flood lines. The combination of all these presents threat to water resources.

6.13 SOIL

Soil has an important role in the environment as it supports biodiversity and provides for a physical base for plants, buildings and other infrastructure. Soil structure will be disrupted during the digging of foundation for the new, pylons for the power line and during excavation works.

Continuous movement of heavy machinery to and from the construction site will result in soil compaction thereby reducing its capacity to hold water which will in turn result in increased runoff during the rainy season.

Fuel leakages and accidental oil spills from construction vehicles and machinery have the capability of contaminating soil once they infiltrate into the soil, this indirectly also affects plant growth in the near future.

Mixing of cement on unpaved surfaces during construction will result in change of soil chemistry, such as changes in the alkalinity/ acidity of the soil, which will reduce soil fertility hence indirectly affecting flora.

Such an effect will be limited to the construction phase and it will be of short duration and it will be limited to the construction site. The significance of the impact can be avoided if mitigation measures are implemented.

6.14 NOISE

Noise levels are expected to increase as a result of various construction activities. The noise will be limited to the construction phase.

6.15 AIR QUALITY

The quality of the air will be impacted on and the sources are likely to emanate from: excessive emission of exhaust gases from construction vehicles, dust during excavation works, digging of foundations, stock piled soils and gravel surface access roads.

6.16 HEALTH AND SAFETY

If construction workers are exposed to excessive and continuous levels of construction-related dust and noise their health could be affected. Such exposure to dust may aggravate conditions such as asthma. Exposure to excessive levels of noise may result in temporary deafness, shock and discomfort.

6.17 INFRASTRUCTURE AND SERVICES

Powerlines often intersect or are aligned in close proximity to existing infrastructure and services such as roads, telecommunication lines, boundary lines and existing powerlines. There could be temporary disruption of services during the construction of the power line.

6.18 SOCIO ECONOMIC

Employment opportunities may arise during the construction phase especially for activities that do not require the use of machinery. This will have a positive impact on the local community especially if provision of appropriate training and skills development is implemented. Other potential social impacts associated with the proposed development will emanate from safety and security concerns of the affected communities from the uncontrolled influx of migrant workers during the construction phase of

the project. This is especially so given the fact that the project area is sparsely populated and contractors may have to bring in labour from outside the immediate project area.

Due to the specialised and technical complexity of the proposed development, it is unlikely that local service providers qualified to undertake the job will be found within the project area. As such, contractors may have to be retained from other areas either nationally or even internationally.

6.19 TOPOGRAPHY

The topography of the area will determine the level of visual exposure of the power line. The power line will be visible from a distance if it is located on an elevated landscape. There are other linear developments already in the vicinity of the project area and as such, the proposed development will conform to some of these developments.

7 ENVIRONMENTAL IMPACT ASSESSMENT METHODOLOGIES

7.1 MEASURING ENVIRONMENTAL IMPACTS

There are guidelines and formulas developed for assessing or measuring identified or anticipated impacts on a given development's receiving environment. There are at least seven generic rating scales that are used into this EIA study. These are:

- Duration
- Extent
- Intensity
- Significance
- Status of impact
- Probability and
- Degree of confidence

7.1.1 Duration

Table 7.1: Impact duration rating

RATING	DESCRIPTION
Short term	0-5 years
Medium term	5-15 years
Long term	Where the impact will cease after the operational life of the activity
Permanent	The impact will occur even after the operational and decommissioning of the project has occurred.

7.1.2 Extent

Extent defines the physical or spatial scale of particular impact on the receiving environment.

Table 7.2: Impact extent rating

RATING	DESCRIPTION
Local	Limited to the site and its immediate surroundings
Regional	Impact extends beyond site boundary.

National	Impact is widespread, it can be Countrywide

7.1.3 Intensity

Evaluation of intensity is used to measure or establish whether the impact would be destructive or the level of destruction particular impacts will have on a given environment.

Table 7.3: Impact intensity rating

RATING	DESCRIPTION
Low	Where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected.
Medium	Where the affected environment is altered but natural, cultural and social functions and processes continue, although in a modified way.
High	Where natural, cultural and social functions or processes are altered to the extent that they will temporarily or permanently cease.

7.1.4 Significance

Significance scale refers to threshold of the importance of a particular impact on the receiving environment.

Table 7.4: Significance scale

RATING	DESCRIPTION
Very high	Impacts could either of high intensity at a regional or national level and last for a long time
High	These impacts could of high intensity at a regional level and last for a medium term or they could be of high intensity at a national level and go on for a short duration.
Medium	Impacts could be either of high intensity at a local level and endure in the medium term or of medium intensity at a regional level in the medium term.
Low	Impacts could both be of low intensity at a regional level and endure in the medium term or of low intensity at a national level in the short term.

7.1.5 Status of Impact

The status of an impact is used to describe whether the impact would have a negative, positive or no effect on the receiving environment.

7.1.6 Probability

Probability describes the likelihood of the impact occurring during the proposed development, after the development or during the operational phase of the development.

Table 7.5: Impact Probability rating

RATING	DESCRIPTION
Improbable	The possibility of the impact occurring is very low or unlikely
Probable	There is a possibility that the impact will occur.
Definite	The impact will definitely occur

7.1.7 Degree of confidence

Degree of confidence measures the level of reliability of the impact predictions subject the availability of relevant information.

Table 7.6: Degree of confidence

RATING	DESCRIPTION
High	Greater than 70% sure of impact prediction.
Medium	Between 35% and 70% sure of impact prediction.
Low	Less than 35% sure of impact prediction.

8 SPECIALIST STUDIES

The appointment of specialists to conduct specialist studies as part of an EIA exercise is done to fulfill the minimum requirements of Regulation 32 in the Government Notice No. R543 of August 2010. The contents of the specialist reports is determined in compliance with the requirements of Regulation 32 outlined in the same noticed referred to above. Nonetheless, the reports for the specialist studies for the proposed development will be attached in the Environmental Impact Assessment Report (EIAR). The involvement of Specialists was based on the identification of issues of concern through engagement with stakeholders during the scoping phase. The following key environmental issues will be investigated in detail during the EIA phase:

- Ecological impacts
- Avifaunal impacts
- Archaeological and Cultural Heritage resources

The following specialists were sub-contracted by HeSSA to investigate key potential impacts further (Table 9.1).

Table 8.1: List of Specialist Consultants

Area of specialisation	Name of specialist	Name of the specialist institutions
Avi-faunal studies	Luke Strandell	Endangered Wildlife Trust
Ecological Studies	George Bredenkamp	Ecoagent
Archaeological and Heritage studies	Mlilo Trust	Nzumbululo Heritage Solutions

9 AUTHORITY CONSULTATION AND PUBLIC PARTICIPATION

The Department of Environmental Affairs and Tourism (DEA) is the competent authority for this project. An application form was submitted to DEA on the 31st of April 2010 and an acknowledgement letter was received 6 May 2010 with a reference number (12/12/20/1912). The reference letter required the Consultant to proceed with the scoping process as required in terms of the Environmental Impact Assessment Regulations 2010. The applicant must ensure that all requirements of Chapter II, section 38 of the National Heritage Resources Act (Act 25 of 1999) are complied with in the EIA process and that comments of the relevant heritage resources authority responsible for the area are considered and that the comments from the relevant heritage resource agency must clearly state that the requirements of the Heritage Resources Agency are met during the study.

Public Participation Process is a cornerstone of any EIA. Public Participation is an Integral requirement of the National Environmental Management act (Act 107 of 1998). The nature and manner in which the public participation process (PPP) should take place as governed by chapter 6 of the Environmental Impact Assessment Regulations (GN No. R.543 of 02 August 2010). This chapter outlines the PPP should be advertised on site and in the media, the requirement of maintaining a register of Interested and affected parties (IAPs) and the entitlement of Registered IAPs to comment on written submissions to the Decision- Making Authority. The process followed during the public participation process has taken into account all aspects of public participation as stipulated in legislation.

The principles of the National Environmental Management Act (NEMA) govern many aspects of EIA"S, including public participation, including the provision of sufficient and transparent information on an ongoing basis to the interested and affected parties to allow to comment.

The PPPs primarily based on two factors, firstly the ongoing interaction with the environmental specialist and the technical teams in order to achieve integration of environmental assessment, technical assessment and public participation throughout. Secondly to obtain the bulk issues to be addressed early on in the process, with the latter half of the process designed to provide environmental and technical evaluation of these issues. These findings are presented to interested and affected parties for verification that their issues have been captured and for further comment.

Providing IAPs (Interested and affected parties) with opportunity to express their concerns and/or views on issues relating to a proposed development is one of the aims of scoping, as per the regulations, as it means of focusing on the relevant issues to ensure that the concerns of the IAPs are addressed, as well as ensuring that the environmental report deals with those identified issues and is thus useful to the decision maker whose obligation is to review the report and either authorise or reject the application.

Objectives of Public Participation:
The public participation process is designed to provide and accessible information to interested and affected parties (IAPs) in an objective manner to assist them:

- During the Scoping Phase
  - To raise issues of concern and suggestions for enhanced benefits and alternatives
  - Verify that their issues have been captured

- During the Impact Assessment Phase:
  - Verify that their issues have been considered by the specialist and technical investigations
  - Comment on the findings of the EIA

9.1 On - Site and Press Advertising

In accordance with the requirements pertaining to advertising as detailed in the Regulations, on site notices, press advertisements, sending emails and registered letters were utilised to bring the proposed activity to the attention of IAPs. The response or registration / comment period linked to the on-site notices and advertisements was 30 days.

- On 12 May on site notices were erected primarily on the main transportation routes adjacent to the proposed route alignment, the substations and also at the local shop (Appendix 6.1).
- The newspaper advert was placed on Witbank News 20 May 2010 (Appendix 6.2).

Plate 5: Pictures of notices on site

9.2 Distribution of BID

On 11 May and 12 May 2010, Hellen Mlotshwa the Environmental officer distributed the Basic Information Documents through emails and postage to potential interests and affected parties. The BID and Response Sheet are attached in Appendix 6.3.

9.3 Public review of Scoping report

The draft Scoping Report was sent to department and public areas for review and comment on the 30 June 2010. IAPs were notified with posted letters on the same day. The report was sent to:

- Department of Water Affairs and Forestry,
- Mpumalanga Department of Minerals and Energy,
- Department of Agriculture and Land Affairs,
- Emalahleni Local Municipality, and
- Witbank library.

A copy of letter sent to IAPs to inform them about the release of draft Scoping report is attached in Appendix 6.4.

9.4 Public meeting

IAPs were invited with registered letters and emails for a Public meeting. The public meeting for the project was held on the 23 August at Emalahleni Local Municipality (Ogies). No significant issues were registered. All information has been attached as appendices as follows:

- Appendix 6.5: Letter sent to IAPs for Public meeting invitation
- Appendix 6.6: Slides for the public meeting held on 23 August 2010
- Appendix 6.7: Minutes of Public Meeting held on 23 August 2010
- Appendix 6.8: Original copies of minutes taken at one-on –one discussions held

9.5 Issues and Response Report

As part of the Government Regulation 543 section 56, comments received from IAPs should be kept and response thereof. Appendix 6.8 presents summary of comments received with actual comments send with responses.

10 RECOMMENDATIONS

The proposed power line, switching station and associated auxiliary developments will take place in an area which was previously disturbed by other developments activities such as construction of the powerlines, substations, access roads, boundary fence line and the mines. No major or radical natural or human environmental impacts are anticipated during the construction and operational phases of the project given the fact that similar and other developments already exist in the general project area. Furthermore, no sensitive sites or areas such as high significant historical building, graveyards, nature reserves and national parks were identified within the close vicinity of the study area.

However, a number of recommendations are set out in this report, and these are considered relevant to the future implementation of the project. Detailed specialist studies are recommended for this development to allow for detailed investigation of some anticipated impacts that will emanate during the construction and operational phases. A detailed Environmental Management Plan should be compiled to outline the mitigation measures for the anticipated impacts.

Further general recommendations are:

- It is recommended that Eskom clarify issues relating to servitude access, maintenance and fire management in the servitude and associated responsibilities. It is suggested these responsibilities are clearly set out in the servitude agreements. A greater level of integration with local fire fighting associations is also recommended.
- Construction camps for the project should also be located on sites recommended in the EMP to be compiled.
- The construction program should set out anticipated rehabilitation activities and timing. Emergency rehabilitation measures should also be identified (e.g. for spillage containment, erosion, plant damage, etc.).
- It is important that the PPP proceed as the EIA process moves through different phases.

11 CONCLUDING REMARKS

This concludes the Draft Amended Scoping Report for the construction of 132kV power line of approximately 16km and substation in length in Mpumalanga Province around Ogies. The proposed location of the power line is in an area, which has already been disturbed. As such, few people on site are directly affected by the proposed development. Nonetheless, the proposed new power line will provide electricity to the mine and future developments in Mpumalanga Province.

The power line route is located in an area of low to medium visual quality, and every effort should be made to minimize any further disturbances. However, given that there are other significant linear developments existing in the area (132 kV power line and access roads etc), and other substations on site or alternative development will result in similar impacts to the existing infrastructure on site. It is recommended the preferred power line should be considered for approval. This option, in combination with the existing developments, is seen to offer the least impact on the receiving environment.

Furthermore, given the relative homogeneity of the area, local deviations are unlikely to affect the overall impact of the power line. It is recommended that more public input and that further specialist avifauna, ecologists and archaeological and heritage specialists inputs be sought. These should form part of the EIAR to be submitted for final evaluation to DEA.

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APPENDIX 1: ACKNOWLEDGEMENT LETTER FROM DEA

environmental affairs
Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

Ref: 12/12/20/1912
Enquiries: Ms Gabisile Hlongwane **Tel:** 012 310 3805 **Fax:** 012 320 7539 **Email:** gabisileh@deat.gov.za

Attention: Ms Helen Mlotshwa
Nzumbululo Heritage Solutions (Pty) Ltd
P.O. Box 2202
HALFWAY HOUSE
1685

Tel No: 011 021 4937
Fax No: 086 539 3015

Dear Ms Mlotshwa,

ACKNOWLEDGEMENT OF RECEIPT OF THE APPLICATION FORM FOR THE PROPOSED CONSTRUCTION OF 132 KV POWERLINE FROM KRUISPUNT TO SMITHFIELD AND ZONDAGFONTEIN TO SMITHFIELD, EMALAHLENI LOCAL MUNICIPALITY, MPUMALANGA PROVINCE (12/12/20/1912)

This letter serves as an acknowledgment of receipt of the application form received by this Department on 30th April 2010. You may proceed with the scoping process required in terms of the Environmental Impact Assessment Regulations, 2006.

The application has been assigned the reference number **12/12/20/1912**. Kindly quote this reference number in any future correspondence in respect of the application.

You are advised to also engage other relevant stakeholders and government departments in time to provide comments.

Also note that the activity may not commence prior to an Environmental Authorisation being granted by the Department.

Yours sincerely,

Ms Lize McCourt
Chief Director: Environmental Impact Management
Department of Environmental Affairs
Letter signed by: Ms Gabisile Hlongwane
Designation: SID Officer: Environmental Impact Evaluation
Date: 06/05/2010

CC: Palesa Kuaho Eskom Holdings Ltd Fax: 086 539 3015

APPENDIX 2: CURRICULUM VITAE OF THE EAP FOR THE PROJECT

CURRICULUM VITAE FOR SEMUKELE HELLEN MLOTSHWA

PERSONAL DETAILS

Passport Number:	BN722219
Nationality:	Zimbabwean
Gender:	Female
Population Group:	Black
Languages:	English, Ndebele, isizulu
Postal Address:	A011 Grand Central Apartments
E-mail address:	hellenml@gmail.com
Contact number:	079 152 3665

ACADEMIC HISTORY

1:2002-2005 Solusi University
Bachelor of Science in Environmental Health

Courses
First year:
Introduction to information processing
General physics
General physics lab
General chemistry
General chemistry lab
Technical Mathematics
Introduction to environmental systems
Introduction to research
Sanitation and waste water treatment
Elements of environmental pollution
Water supply
Environmental Impact Assessment
Environmental Law and Policy I
Interbusiness communication

Second Year
Microbiology
Ecology
Food hygiene and safety
Quantitative analysis
Quantitative analysis lab
Environmental law and policy II
Hazardous waste management
Occupational Health and safety
Radio activity and the environment
Comparative vertebrae anatomy
Solid waste management

Third Year
Urban development and housing
Principles of air pollution and control
Principles of epidemiology I and II
Parasitology and pest control
Food science and nutrition
Meat hygiene
Statistical methods
Environmental health administration
Research project

Fourth Year
Internship with the Ministry of Health and Child welfare (Zimbabwe)

2000-2001 Bulawayo Foundation College

Cambridge Advanced Level Passes

Subjects:

- Economics
- Management of Business,
- Geography

EMPLOYMENT HISTORY

Lister Motorways (PTY) Ltd

Worked as a cashier and as an Environmental health officer for Lister Motorways

. **Provincial Medical Directorate (Ministry of Health)**

Worked as a trainee Environmental Health Officer and covered all the duties of an environmental health officer in the following districts:

- Filabusi
- Gwanda
- Beitbridge
- Bulawayo

Worked in the Nutrition department under the Provincial Nutritionist looking at the following aspects:

- Implementation of Food Act standard
- Food monitoring
- Water and Sanitation
- Food importation through Port health

. Nzumbululo Heritage **Solutions South Africa (March 2007 -current)**

Working as an Environmental Officer with the following duties:

- Project inception
- Client communication
- Report writing and evaluation for Environmental impact assessment reports
- Environmental field work for data collection
- Assessing requirements of projects using the National Environmental Management Act (Act 107 of 1998)
- Environmental monitoring

. **REFEREES**

Mr. A.G Mhaka
Solusi University
P.O. solusi
Bulawayo
Telephone no. +26383226-8

Mr. I. L Nare
PEHO Ministry of Health
PO Box 3175
Bulawayo

Mr. Search more Maplanka
Lister Motorways
PO Box 6392 Kelvin North
Bulawayo
Telephone no. +263912857169

Curriculum Vitae
of
Kelebogile I. Mogajane

ID No: 821008 0441 089
Drivers Licence Code B
Mobile 083 478 5753
Email: kelebogile@mukhahacom

PERSONAL INFORMATION

Surname:	Mogajane
First Names:	Kelebogile Idah
Identical Document:	821008 0441 089
Residential Address:	113 Tandia Gardens Parkville Road Buccleuch
Mobile Number:	083 478 5753
E-mail:	kelebogile.@mukhaha com
Gender:	Female
Marital Status:	Single
Citizenship:	South African

Language	Speak	Read	Write
Setswana	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
South Sotho	Excellent	Fair	Fair
Northern Sotho (SePedi)	Excellent	Fair	Fair
Afrikaans	Good	Fair	Fair
IsiZulu	Fair	Poor	Poor

HIGHER EDUCATION

Current Studies:

Qualification:	Masters in Business Administration in Environmental Management
Institution:	Rhodes University
Duration:	2009-2011

Completed:

Qualification:	Honours in Bachelor of Science (Environmental Monitoring and Modelling)
Institution:	University of South Africa
Year graduate:	2010
Qualification:	Bachelor of Science
Major subjects:	Zoology Environment, Ecology and Conservation
Institution:	University of Witwatersrand, Johannesburg
Year graduate:	2004

MATRIC

Qualification:	Matric (Programme for students from historically advantaged schools)
Subjects:	Mathematics (Higher grade) Physical Science (Higher grade)
Institution:	Iscor Bridging School, Pretoria
Year earned:	1999
Qualification:	Matric
Subjects:	Setswana (First Language) English (Second Language) Afrikaans (Second language) Mathematics (Higher grade) Physical Science (Higher grade) Biology (Higher grade)
Institution:	Mariasdal High School, Tweespruit

Year earned: 1998

CONTINUING PROFESSIONAL DEVELOPMENT

Course and Certificates obtained:

Environmental Impact and Risk Assessment at Rhodes University- 2008

Conference:

National Youth Commission Conference on the National State of Environment- 2005

WORK EXPERIENCE

Current Employment

Organisation:	Nzumbululo Heritage Solutions, Johannesburg
Position	Environmental Practitioner
Year:	01 August 2010 – Current

HISTORIC WORK EXPERIENCE

Organisation:	SRK Consulting, Illovo, Johannesburg
Position	Environmental Scientist (ES2)
Year:	March 2005 – May 2010
Reason for leaving:	The matter is still to be concluded with CCMA.
Responsibilities:	Social Labour Plans Conduct environmental impact assessments (EIA)- environmental and evaluation Compile environmental management programme report (EMPR) Project coordination Project management Facilitate public participation processes Manage socio-economic fieldwork processes Financial management Human resource management Risk assessment Risk management Plan, implement, monitor and evaluate Resettlement Action Plan (RAP) Supervise junior staff Report writing Presentation of results Proposal writings

International projects at SRK

Company:	Ruashi Mining (Lubumbashi, Democratic Republic of Congo)
Project:	Grievance mechanism for Resettlement Action Plan
Responsibilities:	Manage grievance office Human resource management Financial management Facilitate socio-economic fieldwork processes Data quality check Data entry Resource management Advise on project risk management issues Problem analysis

	Data presentation Recommendation on findings
Date:	January 2009-May 2010
Company:	Global Enterprises Corporate Limited (Kolwezi, Democratic Republic of Congo)
Project:	Public participation programme for the environmental investigation and mining feasibility study
Responsibilities:	Assistance on public participation programme Information integrity Liaise with community and community leaders Compilation of final report
Date:	February 2006 – April 2006
Company:	Kamoto Copper Company (Kolwezi, Democratic Republic of Congo)
Project:	Public participation programmes for the socio-economic impact assessment study
Responsibilities:	Assistance on public participation programme Information integrity Liaise with community and community leaders Compilation of final report
Date:	November 2005- February 2006

Local project at SRK

Company:	Lonmin Eastern Platinum Mine (Rustenburg, South Africa)
Project:	Environmental Impact Assessment and Environmental Management Plan Report Amendment for sewage plant
Responsibilities:	Project co-ordinator Impact Assessment Public participation programme Report writing
Date:	June 2007 –May 2010
Company:	Lonmin (Rustenburg, South Africa)
Project:	Environmental Impact Assessment and Environmental Management Plan Report Amendment for stormwater measures
Responsibilities:	Project co-ordinator Impact Assessment Public participation programme Report writing
Date:	January 2007 – September 2008
Company:	Chevron (South Africa)
Project:	Environmental authorization for replacement of underground storage tanks at Brakpan, Boksburg,
Responsibilities:	Facilitation of public participation programme Project coordination Implementation of project timelines
Date:	June 2006 – November 2007
Company:	Lonmin Western Platinum Mine (Rustenburg, South Africa)

Project:	Environmental Management Programme Report (EMPR) for the upgrade of sewage works
Responsibilities:	Project co-ordination Coordination of Public Participation activities Impact assessment Contributed to final report
Date:	April 2006 - May 2007

Company:	Xstrata and Anglo Platinum Der Brochen (Mpumalanga, South Africa)
Project:	Social Labour Plan
Responsibilities:	Stakeholders' needs analysis Facilitation of public participation programme Interaction with stakeholders Project coordination Minute taking Presentation of findings to the client
Date:	February 2006 – June 2006

Company:	Lonmim Western Platinum Mine (Rustenburg, South Africa)
Project:	Amendment to Environmental Management Programme Report (EMPR)-Calcium Sulphite Disposal
Responsibilities:	Facilitation of public participation programme Project coordination Implementation of project timelines
Date:	December 2005 – December 2006

Company:	Finsch De Beers Mines (Lime Acres, South Africa)
Project:	Stakeholders' needs analysis and public involvement for Strategic Economic Impact Assessment
Responsibilities:	Facilitation of public participation programme Minute taking Project coordination Presentation of findings to the client
Date:	September 2005 – March 2006

Company:	Sasol (Secunda, South Africa)
Project:	Supplementation study to a proposed Sasol Convenience Centre
Responsibilities:	Project co-ordinator Liaising with client Minute taking Report writing
Date:	November 2005 – December 2006

Company:	Xstrata (Rustenburg, South Africa)
Project:	Social Labour Plan
Responsibilities:	Stakeholders' needs analysis Facilitation of public participation programme Interaction with stakeholders Minute taking Project coordination Presentation of findings to the client
Date:	June 2005 – September 2006

Company:	De Beers Mines (Namaqualand, South Africa)
Project:	Stakeholders' needs analysis and public involvement for Strategic Economic Impact Assessment

Responsibilities:	Facilitation of public participation programme Project coordination Minute taking
Date:	May 2005 – June 2006

Company:	Kimberley De Beers Mines (Kimberley, South Africa)
Project:	Stakeholders' needs analysis and public involvement for Strategic Economic Impact Assessment
Responsibilities:	Facilitation of public participation programme Project coordination Minute taking Presentation of findings to the client
Date:	April 2005 – February 2006

ACHIEVEMENTS

Organisation:	National Youth Commission Conference on the National State of Environment
Event:	Presenter of the National State of Environment Report 2005
Year:	2006

Organisation:	University of Witwatersrand
Event:	Certificate of merit for outstanding work in 2002 in the course Ancillary Statistics I
Year:	2002

Organisation:	Iscor Mining Company
Event:	Bursary for Iscor Bridging School
Year:	1999

Organisation:	Department of Education Ladybrand District (OFS)
Event:	First position in Physical Science for the Olympiad 1998
Year:	1998

Organisation:	Mariasdal High School
Event:	Highest marks in Physical Science
Year:	1997 and 1998

Organisation:	Inter SA Catholic Schools - Netball Tournament
Event:	One of the best seven (7) netball tournament- Wing Defence
Year:	1997 and 1998

Organisation:	Mariasdal High School
Event:	Highest marks in Mathematics
Year:	1997

Organisation:	Mariasdal High School
Event:	Merit certificate for Academic achievement
Year:	1996

CAREER OBJECTIVE

My career objective is to be an effective professional employee with good managerial skills, and implementing sustainable solutions. I aim to achieve this by developing a well-rounded set of skills within the MBA programme, with which I am currently doing second year. Towards this aim, I had an opportunity to manage projects within my practical fieldwork as well as environmental consulting experience while working for my previous employer. I am

also able to adapt to new environment and always willing to learn new things that are required for my success in everything I do or want to achieve.

Consistent with my career objective, I am now with Nzumbulolu Heritage Solution and I hope this will be my home. I intend to be beneficial Nzumbululo and believe they will be beneficial to me as well while I continue growing in my career. I am thus working within a context that will tap into my current experience and skill package while further developing my professional skills and assisting me to get closer to achieving my career objective, and being a fulfilled employee.

REFERENCES

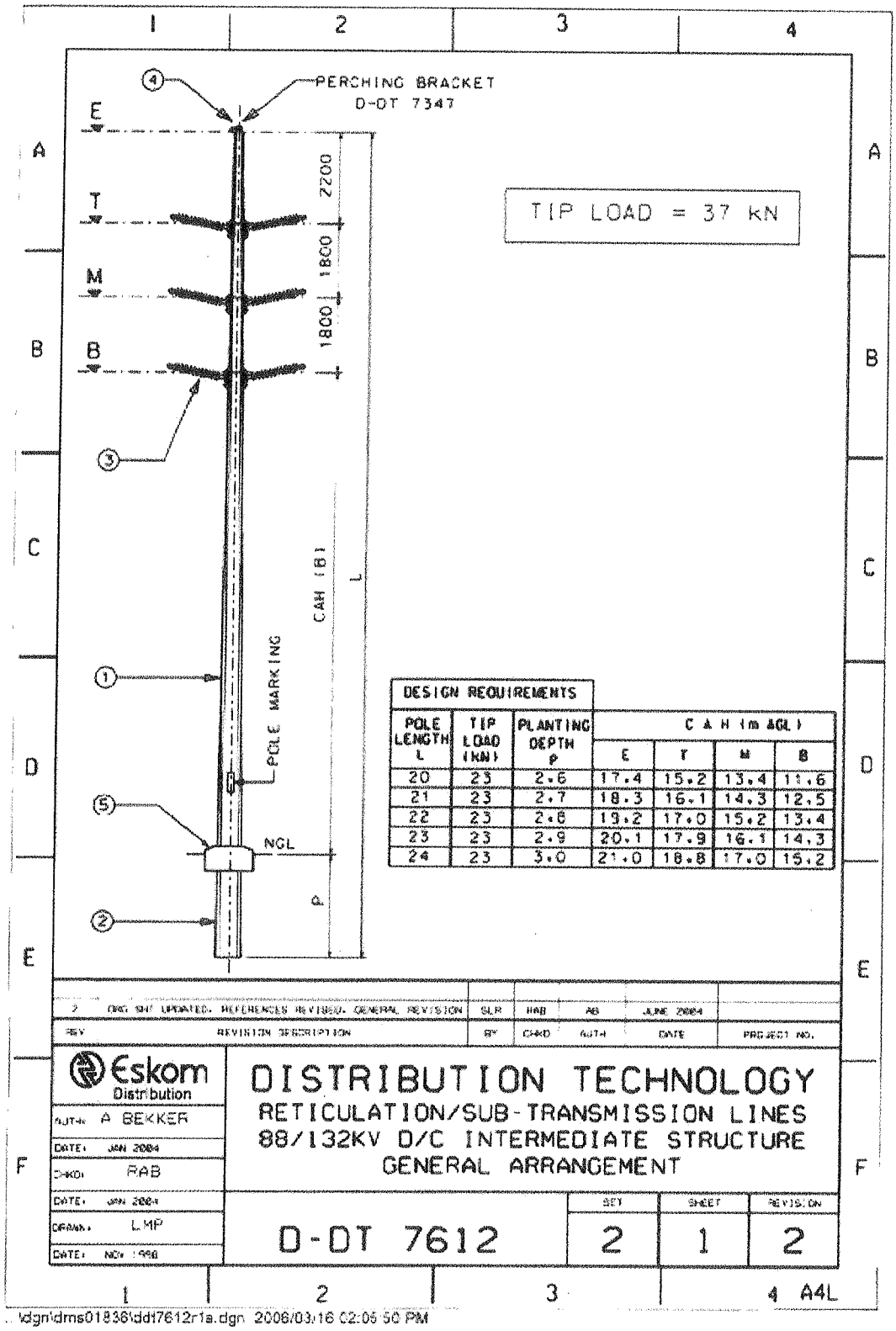
Mr. Andile Skosana
Relationship: Director
Company: Nzumbululo Heritage Solutions
Contact details: 082 555 9139
Email: andile@mukhaha.com

Mr. David Mosuwe
Relationship: Colleague
Company: SRK
Contact details: 083 308 3555 (preferred)
011 441 1295
Email: dmosuwe@srk.co.za

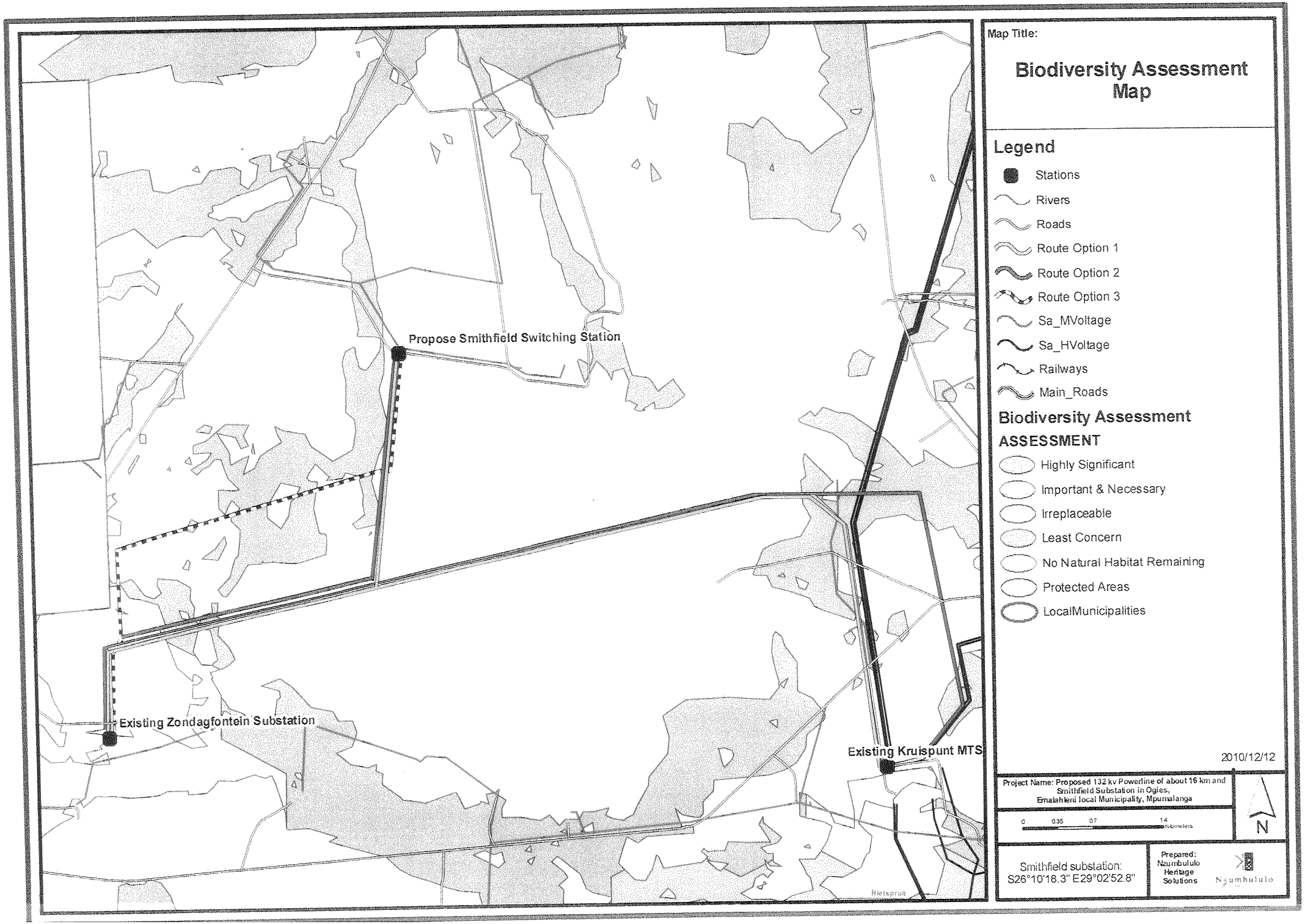
Mr. Felix Motsiri
Relationship: Ex-colleague and senior
Company: Lafarge Cement
Position: Minerals Resources Manager - Northern Region
Contact details: 011 257 3438 (W)
082 542 2050 (cell)
Email address: felix.motsiri@lafarge.com

Mr. Yvon Kasongo-Mbayo
Relationship: Client representative
Company: Ruashi Mining (Lubumbashi, Democratic Republic of Congo)
Position: Social and Environmental Officer
Contact details: +243 81 0806130 (W)
E-mail address: yvon@ruashi.com

APPENDIX 3: SCHEMATIC DIAGRAM OF THE PROPOSED POWERLINE



APPENDIX 4: ADDITIONAL MAPS



Map Title:

Biodiversity Assessment Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads

Biodiversity Assessment

ASSESSMENT

- Highly Significant
- Important & Necessary
- Irreplaceable
- Least Concern
- No Natural Habitat Remaining
- Protected Areas
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

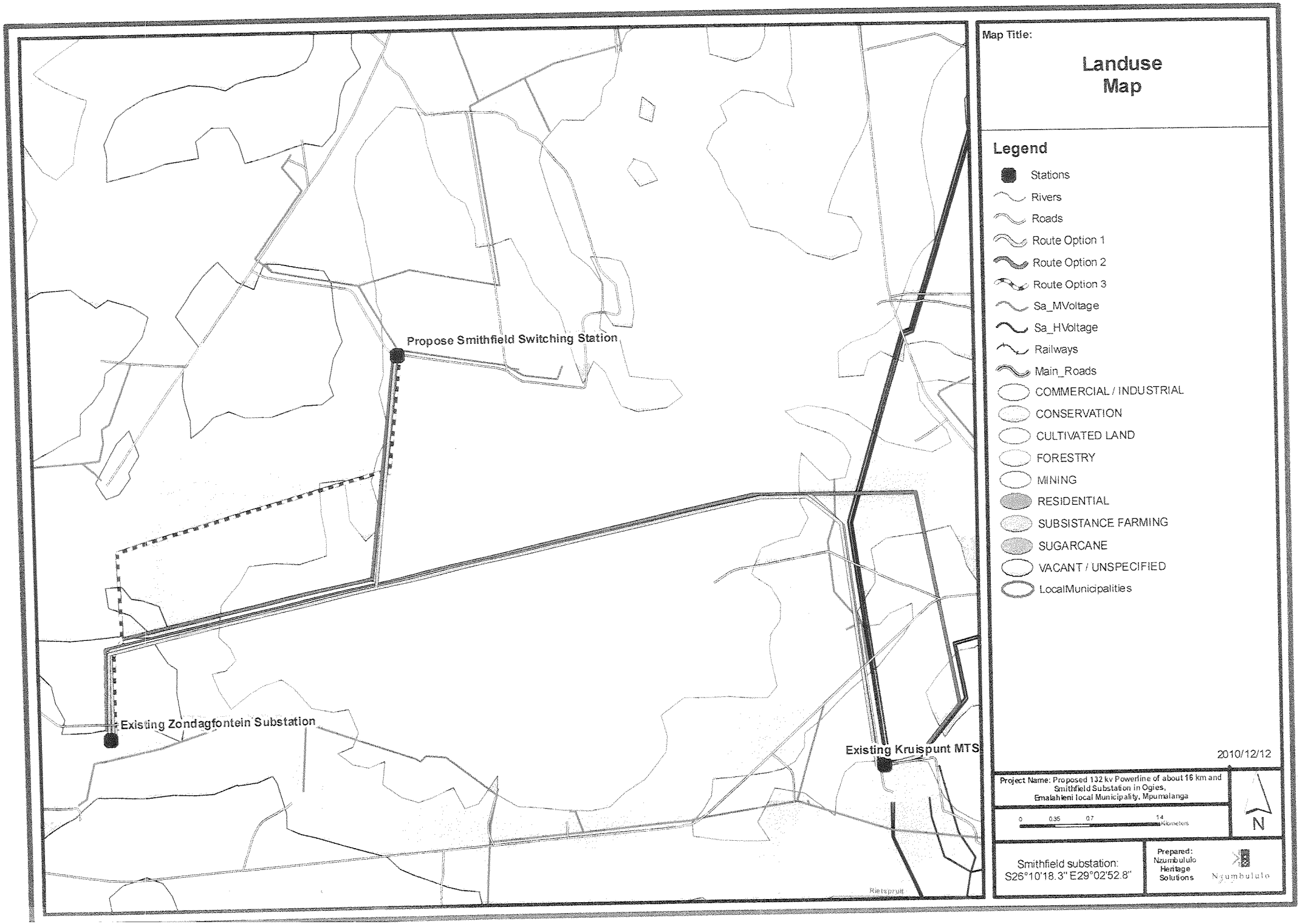
0 0.35 0.7 1.4 Kilometers

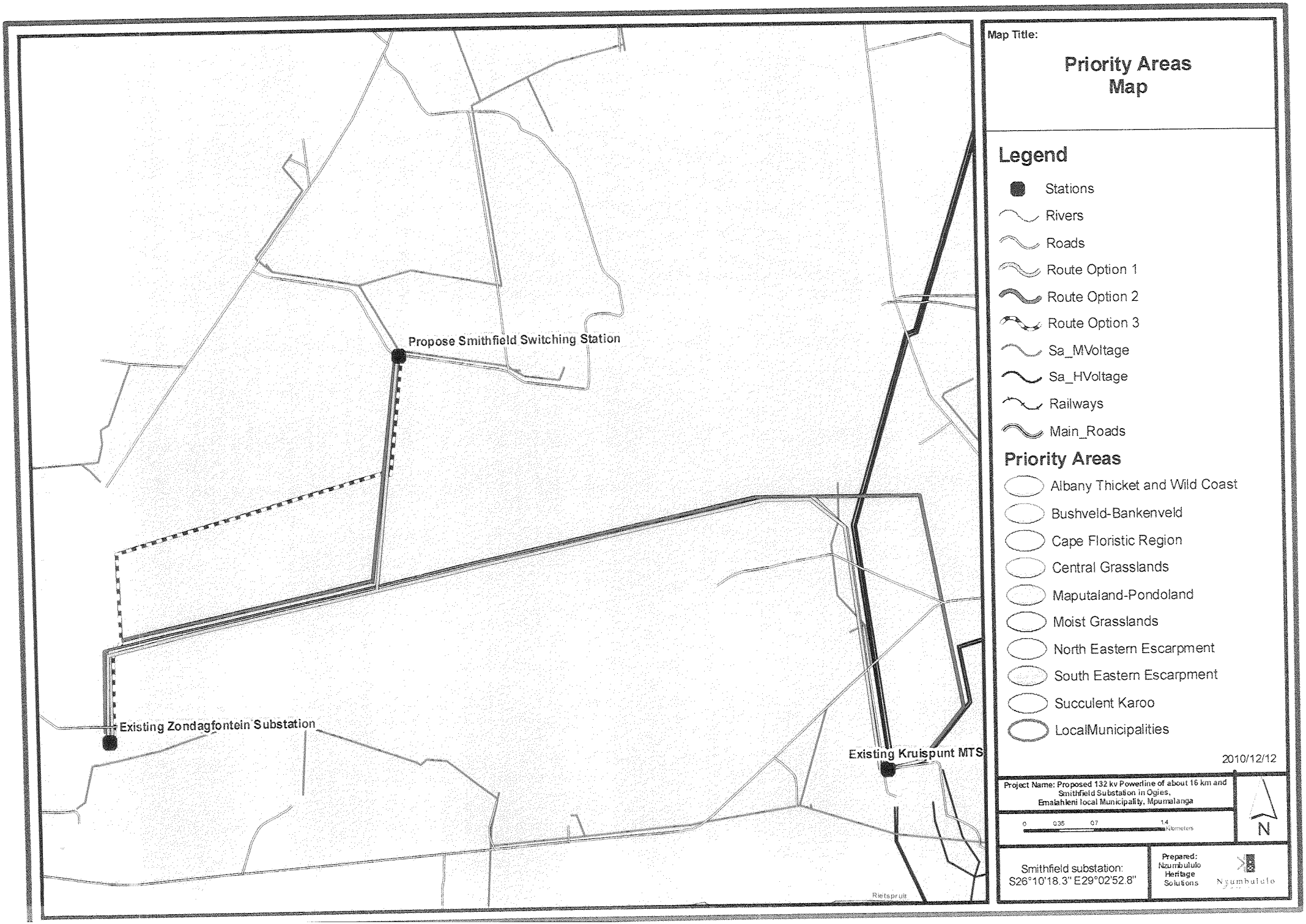
N

Smithfield substation:
S26°10'18.3" E29°02'52.8"

Prepared:
Nzumbululo Heritage Solutions

Nzumbululo


Propose Smithfield Switching Station
Existing Zondagfontein Substation
Existing Kruispunt MTS
Rietspruit
Map Title:
Landuse Map
Legend
Stations
Rivers
Roads
Route Option 1
Route Option 2
Route Option 3
Sa_MVoltage
Sa_HVoltage
Railways
Main_Roads
COMMERCIAL / INDUSTRIAL
CONSERVATION
CULTIVATED LAND
FORESTRY
MINING
RESIDENTIAL
SUBSISTANCE FARMING
SUGARCANE
VACANT / UNSPECIFIED
LocalMunicipalities
2010/12/12
Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga
0 0.35 0.7 14 Kilometers
N
Smithfield substation: S26°10'18.3" E29°02'52.8"
Prepared: Nzumbululo Heritage Solutions
Nzumbululo



Map Title:

Priority Areas Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads

Priority Areas

- Albany Thicket and Wild Coast
- Bushveld-Bankenveld
- Cape Floristic Region
- Central Grasslands
- Maputaland-Pondoland
- Moist Grasslands
- North Eastern Escarpment
- South Eastern Escarpment
- Succulent Karoo
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

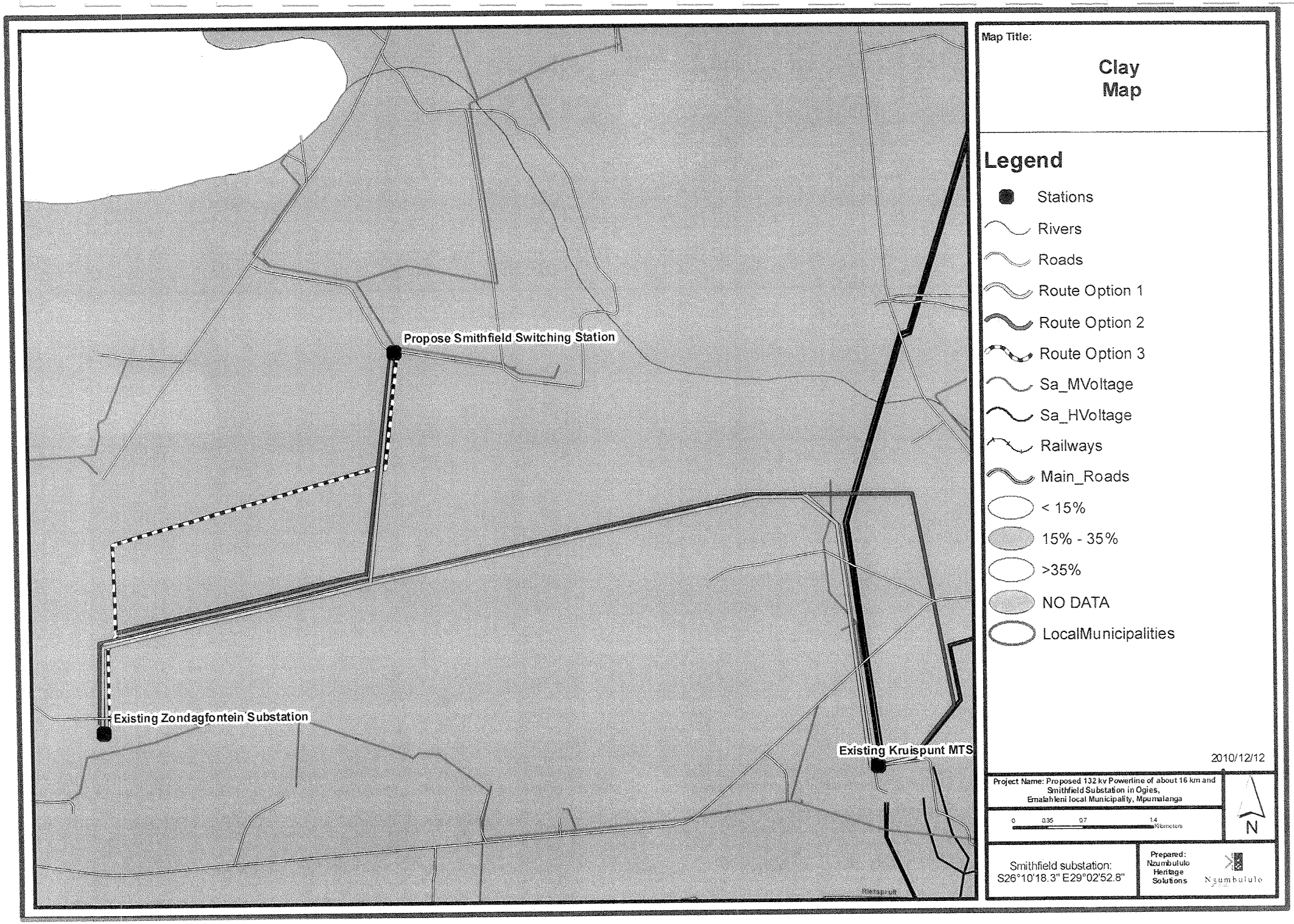
0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo



Map Title:

Clay Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads
- < 15%
- 15% - 35%
- >35%
- NO DATA
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

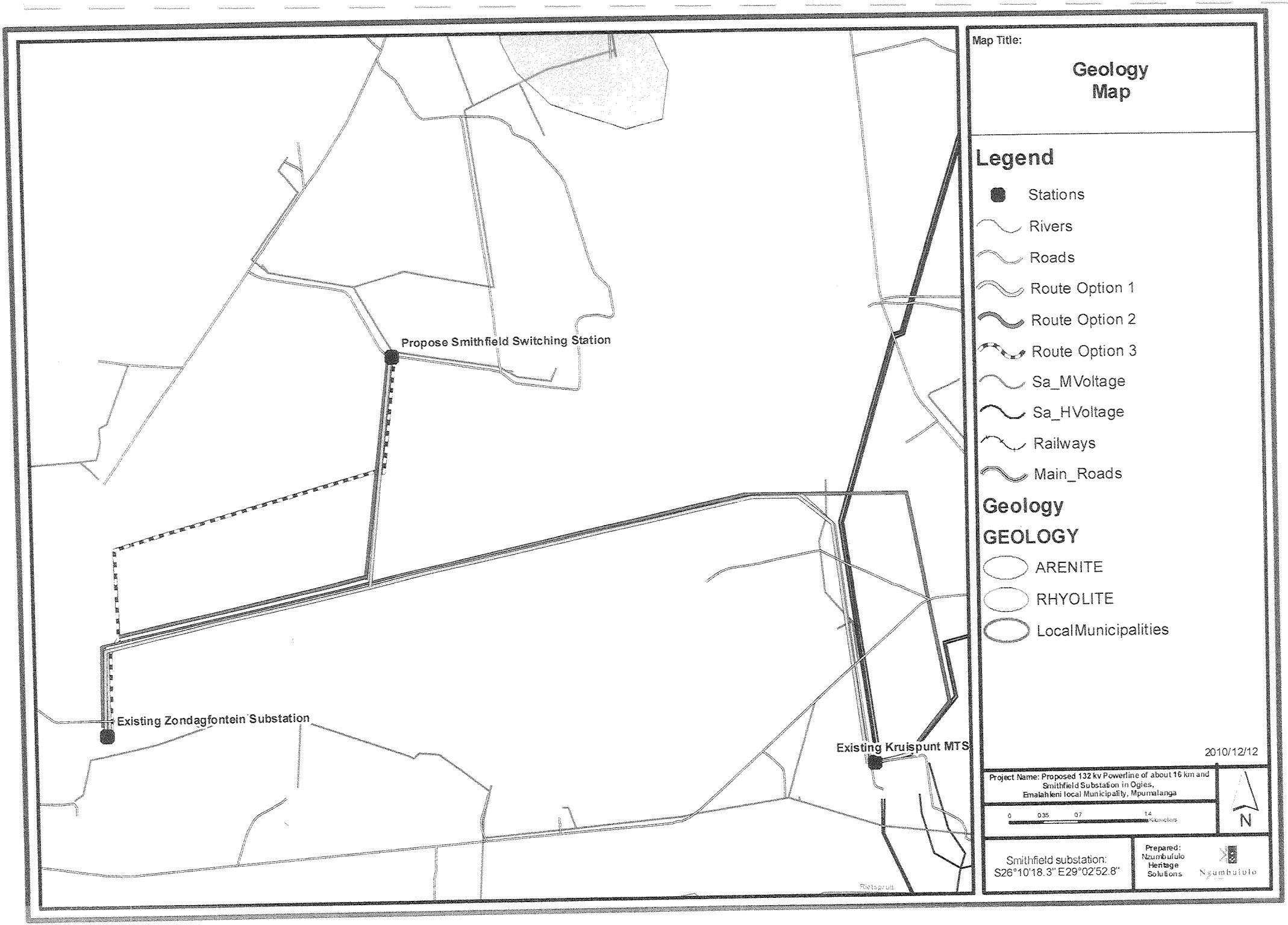
0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo



Map Title:

Geology Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads

Geology

GEOLOGY

- ARENITE
- RHYOLITE
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

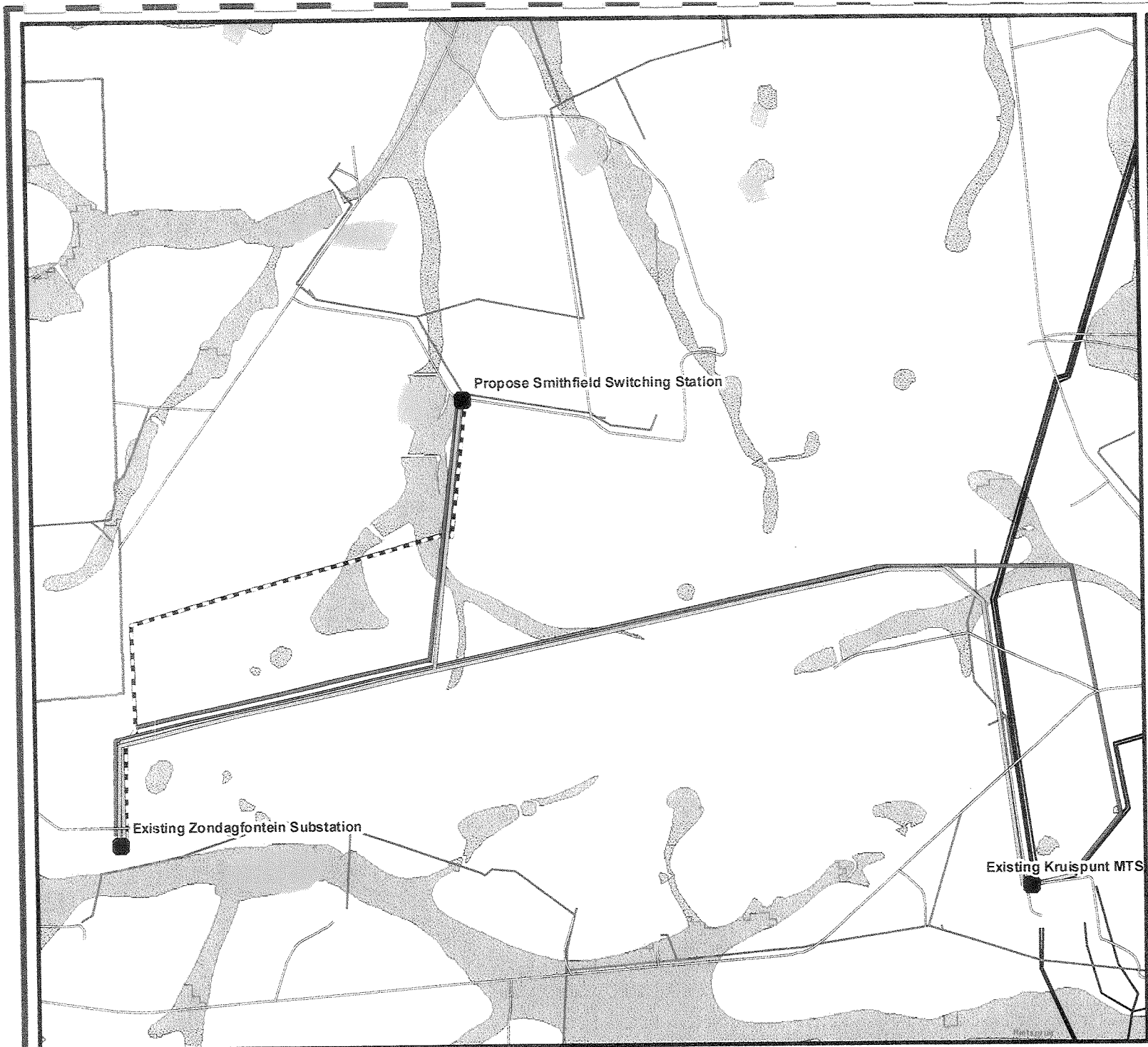
0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo



Map Title:

Hydrology (Wetland, Rivers, Dams) Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads
- Hydrology
- Wetlands
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 15 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

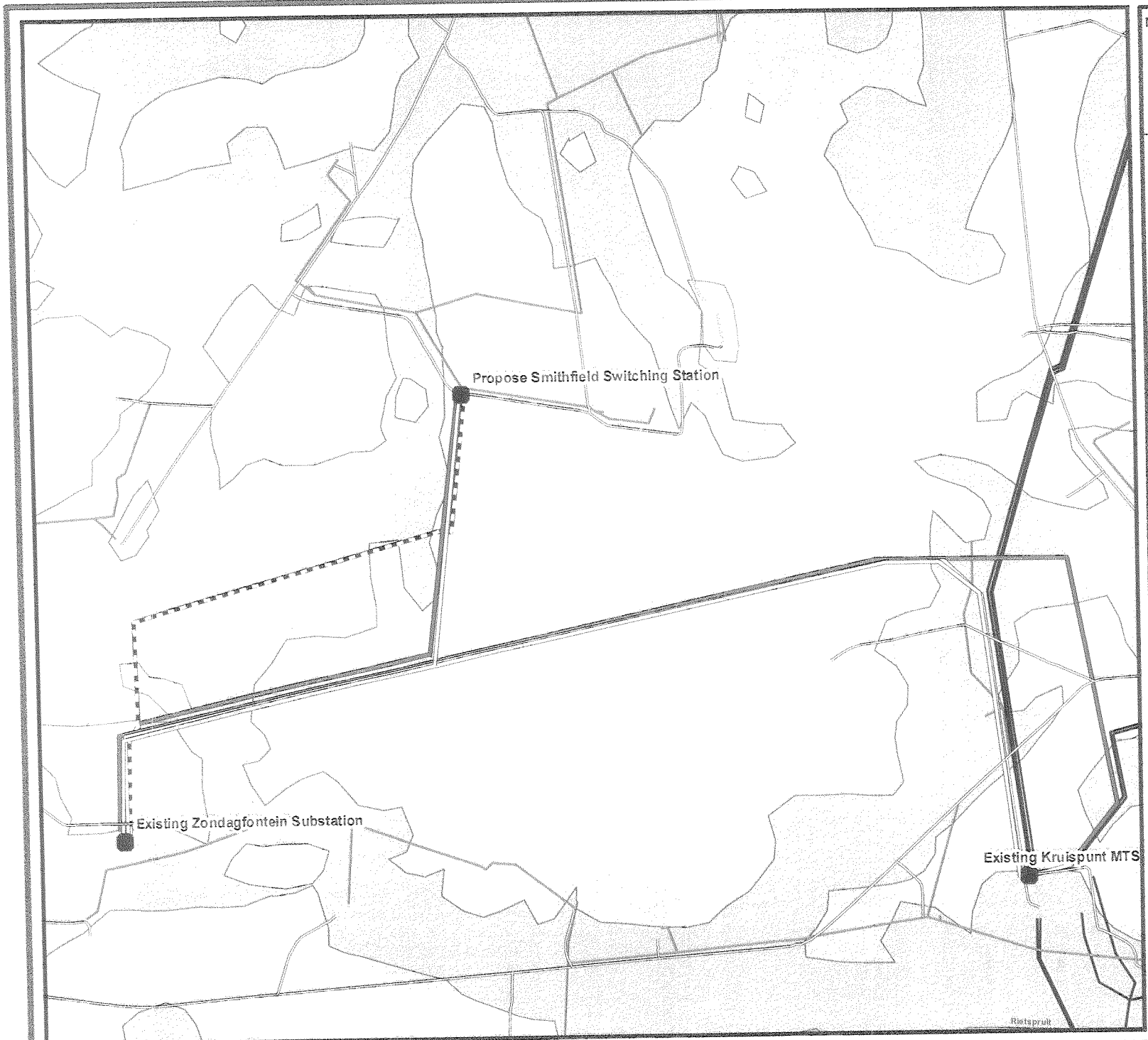
0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo



Map Title:

Landcover Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads
- BARE ROCK AND ERODED LAND
- BARE ROCK AND SOIL
- BUILT-UP LAND: COMMERCIAL
- BUILT-UP LAND: INDUSTRIAL
- BUILT-UP LAND: RESIDENTIAL
- CULTIVATED GRASS
- CULTIVATED LAND: COMMERCIAL
- CULTIVATED LAND: SUBSISTANCE
- DEGRADED: FOREST AND WOODLAND
- DEGRADED: THICKET AND BUSHLAND
- DEGRADED: UNIMPROVED GRASSLAND
- EXOTIC PLANTATIONS
- GRASSLAND
- HERBLAND
- INDIGENOUS FOREST
- MINES AND QUARRIES
- THICKET AND BUSHLAND
- WATERBODY
- WETLAND
- WOODLAND
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

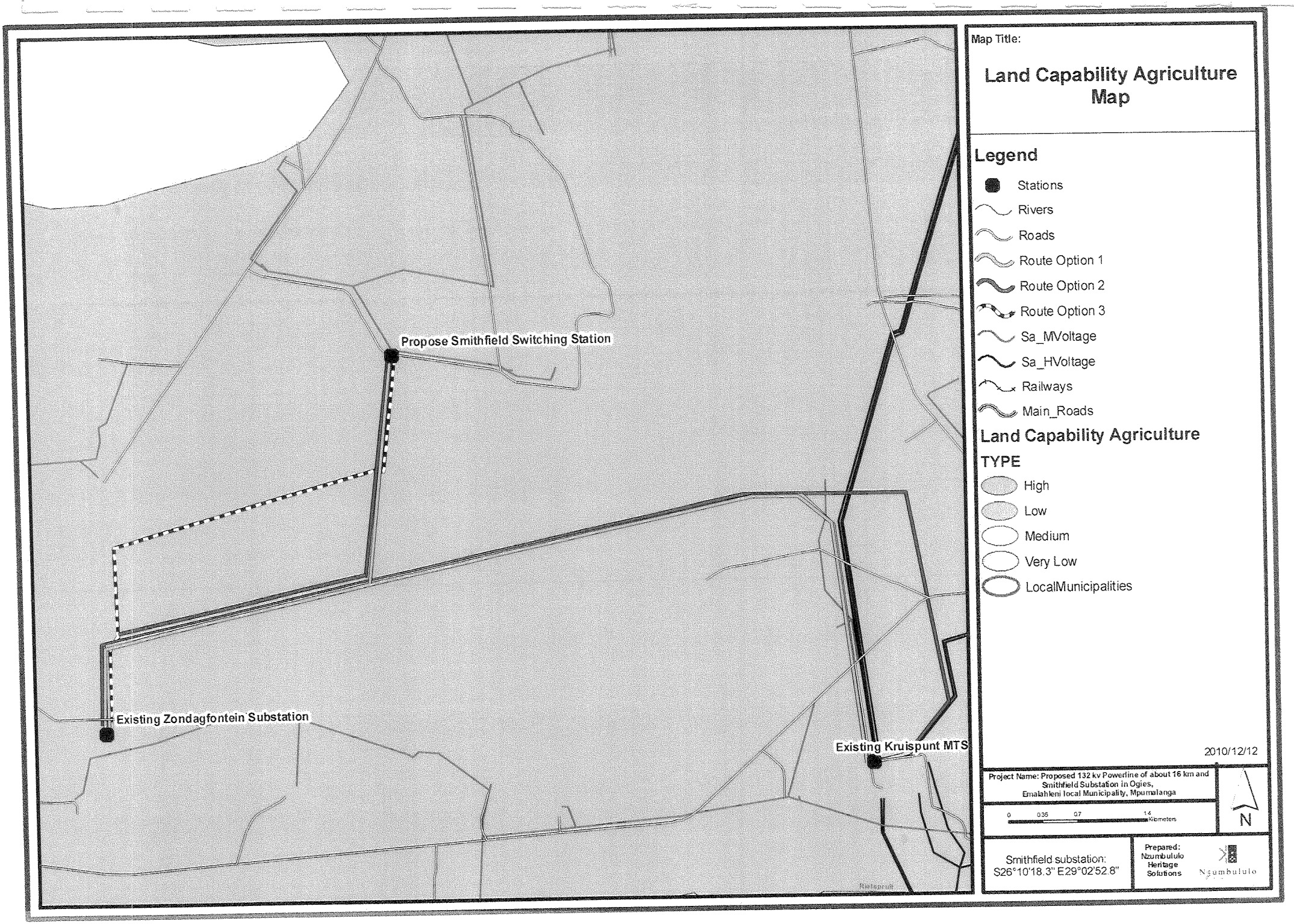
0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo



Map Title:

Land Capability Agriculture Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads

Land Capability Agriculture

TYPE

- High
- Low
- Medium
- Very Low
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

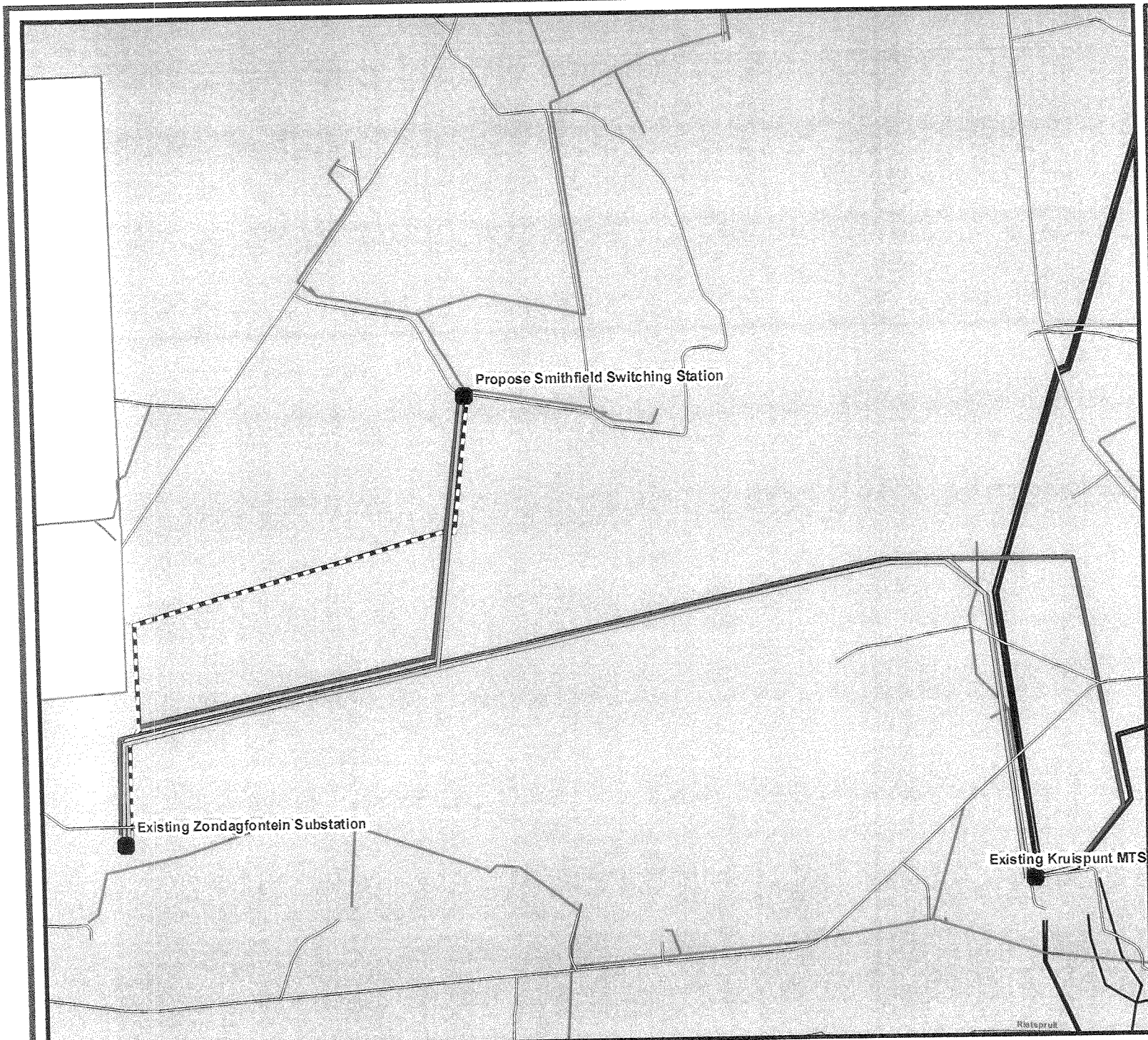
0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo



Map Title:

Mining Assessment Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads

Mining

MINING_POT

- 0
- 50
- 75
- 100
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

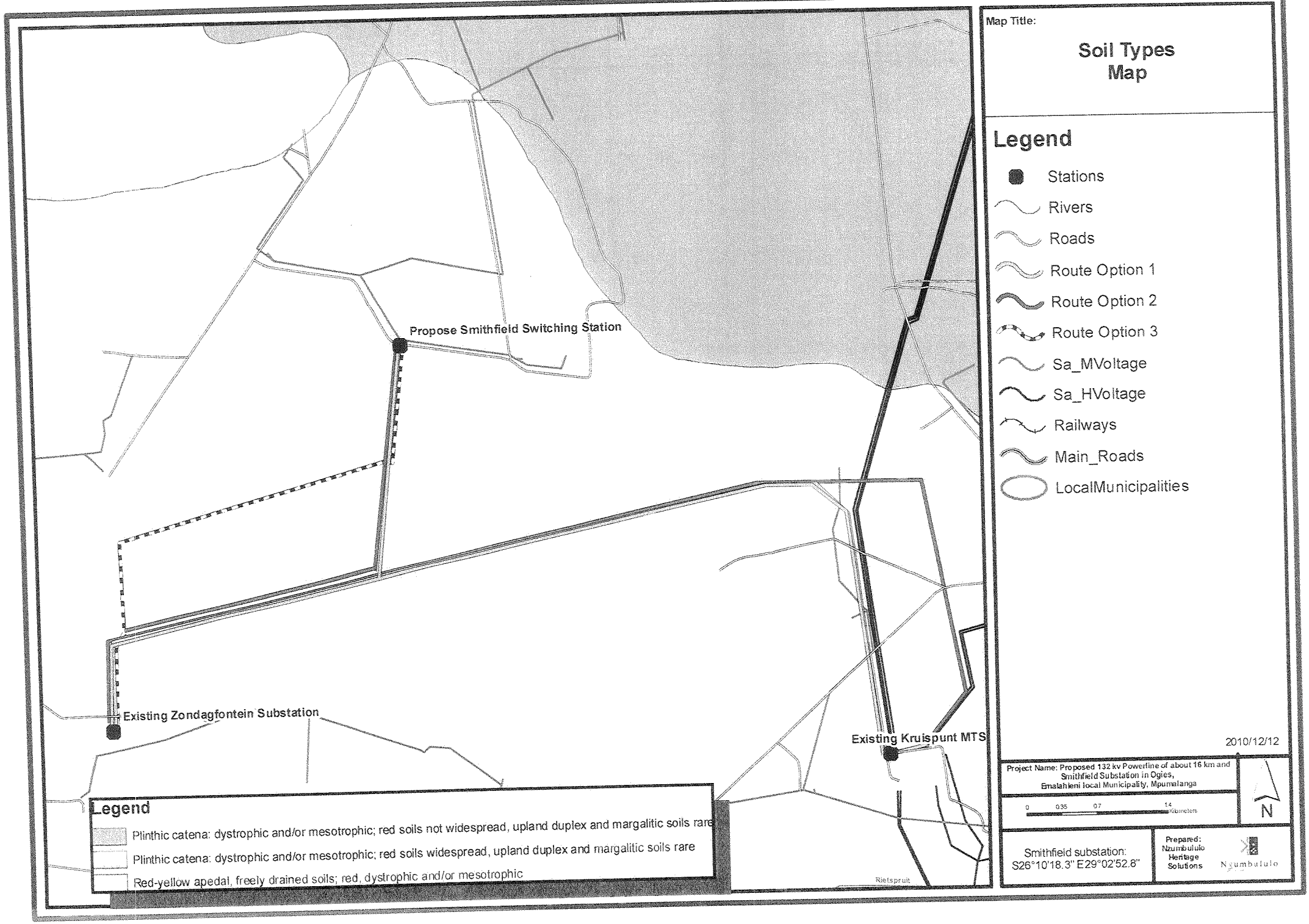
0 0.35 0.7 1.4 Kilometers

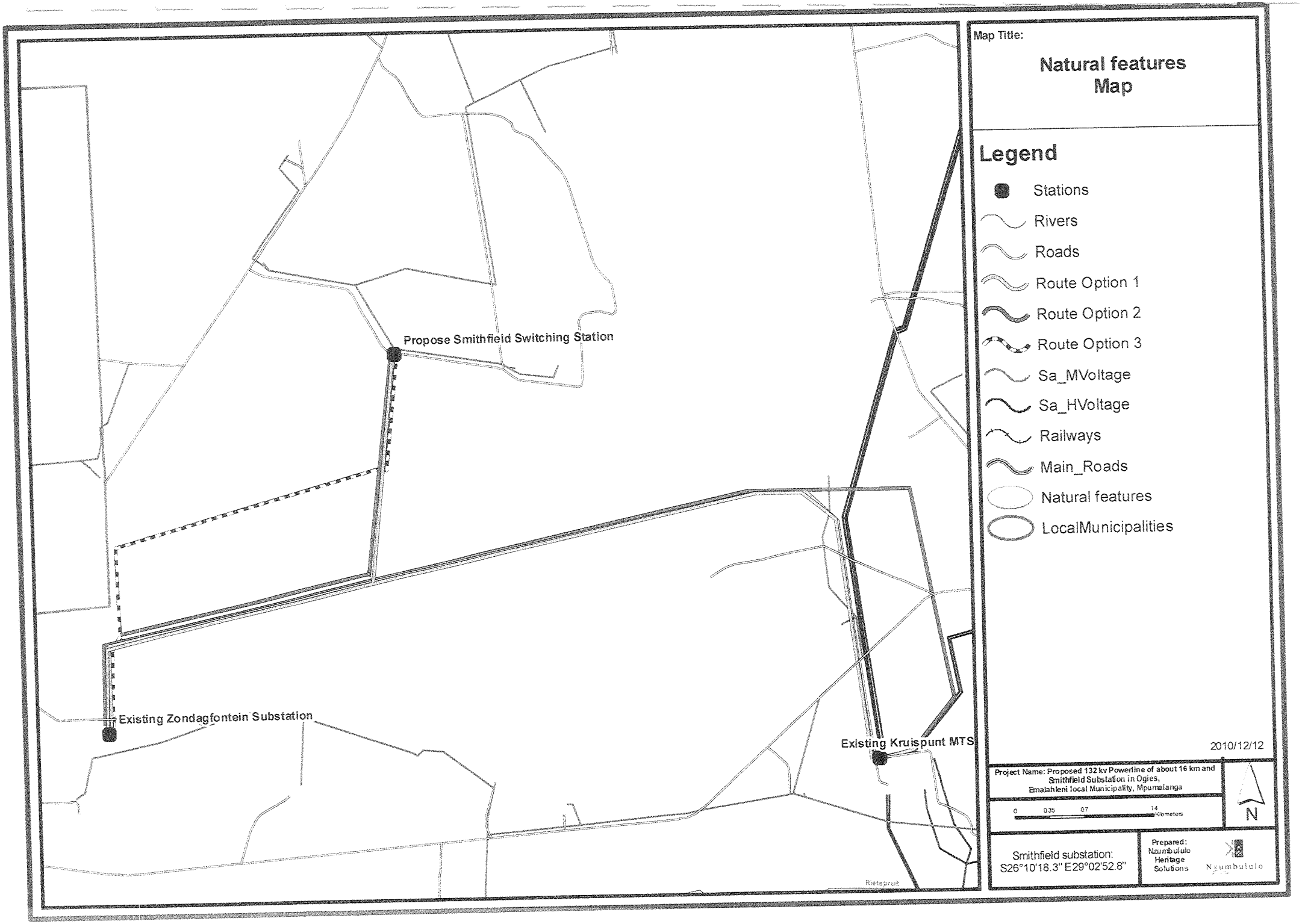
N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo


Map Title:
Soil Types Map
Legend
Stations
Rivers
Roads
Route Option 1
Route Option 2
Route Option 3
Sa_MVoltage
Sa_HVoltage
Railways
Main_Roads
LocalMunicipalities
Propose Smithfield Switching Station
Existing Zondagfontein Substation
Existing Kruispunt MTS
Rietspruit
Legend
Plinthic catena: dystrophic and/or mesotrophic; red soils not widespread, upland duplex and margalitic soils rare
Plinthic catena: dystrophic and/or mesotrophic; red soils widespread, upland duplex and margalitic soils rare
Red-yellow apedal, freely drained soils; red, dystrophic and/or mesotrophic
2010/12/12
Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga
0 0.35 0.7 1.4 Kilometers
N
Smithfield substation: S26°10'18.3" E29°02'52.8"
Prepared: Nzumbululo Heritage Solutions
Nzumbululo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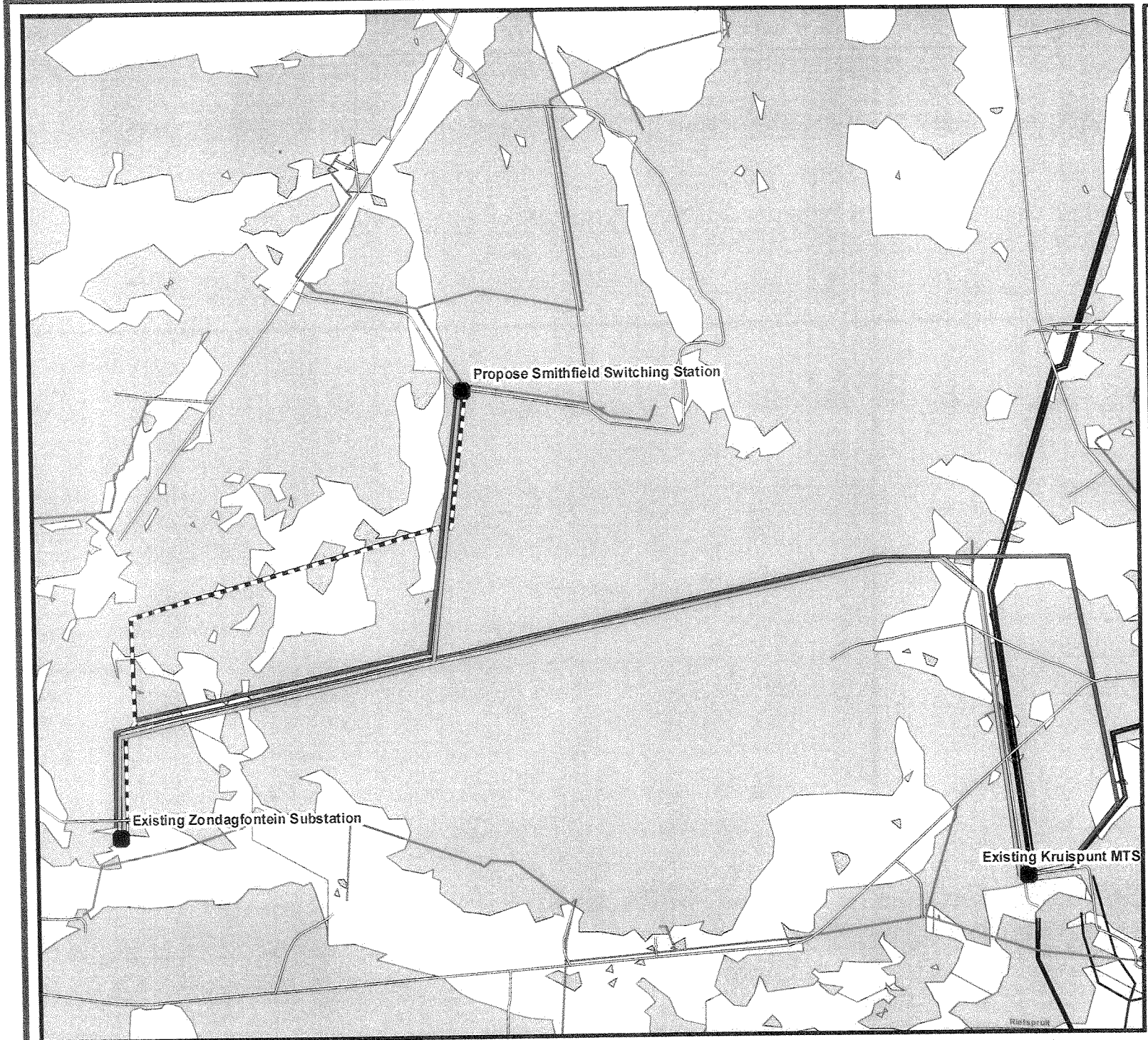
Natural features Map
Legend
Stations
Rivers
Roads
Route Option 1
Route Option 2
Route Option 3
Sa_MVoltage
Sa_HVoltage
Railways
Main_Roads
Natural features
LocalMunicipalities
Propose Smithfield Switching Station
Existing Zondagfontein Substation
Existing Kruispunt MTS
Rietspruit
2010/12/12
Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga
0 0.35 0.7 14 Kilometers
N
Smithfield substation: S26°10'18.3" E29°02'52.8"
Prepared: Nzumbululo Heritage Solutions
Nzumbululo



Map Title:

Terrestrial Biodiversity Assessment Map

Legend

- Stations
- Rivers
- Roads
- Route Option 1
- Route Option 2
- Route Option 3
- Sa_MVoltage
- Sa_HVoltage
- Railways
- Main_Roads

Terrestrial Biodiversity Assessment

ASSESSMENT

- Highly Significant
- Important & Necessary
- Irreplaceable
- Least Concern
- No Natural Habitat Remaining
- Protected Areas
- LocalMunicipalities

2010/12/12

Project Name: Proposed 132 kv Powerline of about 16 km and Smithfield Substation in Ogies, Emalahleni local Municipality, Mpumalanga

0 0.35 0.7 1.4 Kilometers

N

Smithfield substation: S26°10'18.3" E29°02'52.8"

Prepared: Nzumbululo Heritage Solutions

Nzumbululo

APPENDIX 5: PLAN OF STUDY

REPORT DETAILS

PROJECT NAME:	EIA FOR THE PROPOSED CONSTRUCTION OF THE 16KM 132kV POWERLINE, MPUMALANGA PROVINCE
REPORT TITLE:	PLAN OF STUDY FOR ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF THE 16KM 132kV POWERLINE, IN THE MPUMALANGA PROVINCE.
AUTHOR: **SIGNATURE:**	HELLEN MLOTSHWA and KELEBOGILE MOGAJANE
CHECKED BY: **SIGNATURE:**	
ESKOM REF. No.	
HESSA REFERENCE NO.	2010.JHB.HESSA.ENV.PRO.0011
DEAT REFERENCE NO.	12/12/20/1912
STATUS OF THE REPORT:	DRAFT REPORT
SECOND ISSUE:	JANUARY 2010

P.S.P

APPROVED FOR PSP BY HEAD OF DEPARTMENT:

DATE: JUNE 2010

TABLE OF CONTENTS

ON OF TERMS

ives

ole course of action, in place of another, that would meet the same purpose and need (of proposal). ives can refer to any of the following but are not limited hereto: alternative sites for development, alternative puts, alternative designs, alternative processes and materials. In Integrated Environmental Management the ed "no action" alternative may also require investigation in certain circumstances.

sment

rocess of collecting, organizing, analyzing, interpreting and communicating data that is relevant to some on.

lopment

act of altering or modifying resources in order to obtain potential benefits.

ronment

external circumstances, conditions and objects that affect the existence and development of individual organism roup. These circumstances include biophysical, social, economic, historical, cultural and political aspects.

ironmental impact

degree of change in an environment resulting from the effect of an activity on the environment, whether desirable undesirable. Impacts may be the direct consequence of an organization's activities or may be indirectly caused by em. Impact can be positive or negative.

nvironmental Impact Assessment

a process which is used to identify, predict and assess the potential environmental impacts of a proposed evelopment on the environment.

Evaluation

The process of weighing information or the act of making valued judgments.

Interested and Affected Parties

Individual or groups concerned and or affected with an activity and its consequences.

ABBREVIATIONS

DEA	Department of Environmental Affairs
EIA	Environmental Impact Assessment
EAP	Environmental Assessment Practitioner
EIR	Environmental Impact Report
EMP	Environmental Management Plan
HESSA	Nzumbululo Heritage Solutions South Africa
NEMA	National Environmental Management Act (Act No: 107 of 1998)
PoSEIA	Plan of Study for Environmental Impact Assessment
PPP	Public Participation Process

PROPOSED CONSTRUCTION OF 16KM 132KV POWERLINE IN THE MPUMALANGA PROVINCE

Draft Plan of Study for EIA

1. INTRODUCTION

Eskom Northern Distribution has an obligation of providing electricity to Mpumalanga areas. One of its customers is Khutala Mine. Eskom would like to build a 132 kV powerline, which will stretch for approximately 16 km.

The environmental application has been lodged with the Department of Environmental Affairs (DEA). The present scoping report focus on the construction of 16km 132kV powerline in Mpumalanga Province as well as the alternative for powerline.

The proposed line will link with the three substations that are, Kruispunt, Zondagfontein and Smithfield substations. From the findings during the scoping and specialist input the preferred site would be suitable for the proposed development. A detailed evaluation of the impacts associated with the proposed powerline will be undertaken during the EIA phase.

1.1. BACKGROUND TO THE STUDY

The proposed development is part of Eskom Northern Distribution Region's proposal to develop the Mpumalanga province. The proposed development triggers the requirements for environmental authorisation from a competent authority (Department of Environmental Affairs [DEA]).

This Plan of Study for Environmental Impact Assessment (PoSEIA) has been prepared in order to meet the requirements of the Environmental Impact Assessment (EIA) regulations and guidelines as outlined in Regulation 29 published in Government Notice No. R385 of April 2006 and Regulation 28 of Government Notice 543 which was enforced 2 August 2010.

The EIA process commenced in May 2010 with a submission of an Application form to with Department of Environmental Affairs (DEA). The first phase of the EIA process, the Scoping Phase, culminated in the production of a Scoping Report, which identifies potential environmental impacts and project alternatives, which require more detailed investigation. This PoSEIA has been included in the Scoping Report, in order to provide guideline on the scope and details of work envisaged for the EIA process. As such in reviewing the draft Scoping Report, DEA will also review the PoSEIA.

1.2. PURPOSE OF STUDY

The purpose of this document is to outline how Nzumbululo Heritage Solutions will undertake the Environmental Impact Assessment study as part of a comprehensive EIA process for the proposed development. The PoSEIA provides information as required for such a document in terms of Regulations 27 to 36 as published in terms of Chapter 5 of the National Environmental Management Act (NEMA) of 1998 (Act 107 of 1998). The PoSEIA indicates the proposed approach to the EIA study in order to ensure that the next phase of this EIA process satisfies the requirements of DEA by outlining the anticipated process and products of the process.

The overall process is referred to as the Environmental Impact Assessment (EIA) process, which is composed of three phases:

- The Application Phase;
- The Scoping Report Phase; and
- The Environmental Impact Assessment Phase

2. PLAN OF STUDY

2.1 DESCRIPTION OF THE TASKS TO BE PERFORMED

The EAP of Nzumbululo Heritage Solutions assisted by a team of in-house environmental officers will conduct the Environmental Impact Assessment field study. Other specialists will be retained to further identify and examine additional specialised biophysical and human environmental impacts associated with the proposed activity. The identified impacts will be assessed using the rating scales discussed in Section 2.3 below.

2.1.1. Description of Proposed Activity

The nature of the activity is described in detail in the Scoping Report. It comprises the construction of a 16km 132kv powerline, which will link the three substations.

2.2 POTENTIAL ENVIRONMENTAL IMPACTS IDENTIFIED DURING SCOPING

The Scoping investigation has reviewed the range of potential environmental impacts associated with the proposed activities. Pursuant to this assessment, which was based on input from the authorities, interested and affected parties (I&APs) and various professionals, a shortlist of potentially significant environmental impacts were identified for further and more detailed investigation during the EIA Phase. Specifically, the potential environmental impacts are described in Chapter 8 of the Scoping Report.

2.3. METHOD FOR ASSESSING THE SIGNIFICANCE OF POTENTIAL ENVIRONMENTAL IMPACTS

This section outlines the proposed method for assessing the significance of the potential environmental impacts outlined in Chapter 8 of the Scoping Report. These include both operational and construction phase impacts. For each impact, the EXTENT (spatial scale), MAGNITUDE (size) and DURATION (time scale) would be described (Table 1). These criteria would be used to ascertain the SIGNIFICANCE (consequence) of the impact, both in the case of no mitigation and with the most effective mitigation measure(s) in place. The SIGNIFICANCE of an impact is derived by taking into account the temporal and spatial scales and magnitude (Table 2). The mitigation described in the EIR would represent plausible and pragmatic measures but does not necessarily imply that they would be implemented as such. Eskom (the development proponent) will indicate at the Draft EIR phase which mitigations would be applied in cases where such intervention is recommended. Subsequent to determining the significance of an impact, the PROBABILITY of this impact occurring and the associated CONFIDENCE in the assessment of the impact would be determined (Tables 3 and 4).

All the Specialist studies proposed for the proposed construction of the power line and substation will use ratings provided above when assessing the potential impacts. The concerns raised by the I&APs on impacts will be taken into consideration and recommendations will be made in order to avoid or minimise the negative impacts.

Table 1: Assessment criteria for the evaluation of impacts.

CRITERIA	CATEGORY	DESCRIPTION
Extent or spatial influence of impact	Regional Local Site specific	Beyond a 10 km of the site boundary Within a 10 km of the site boundary On site or within 10 m of linear infrastructure corridors

Magnitude of impact (at the indicated spatial scale)	High	Natural and/ or social functions and/ or processes are *severely* altered.
	Medium	Natural and/ or social functions and/ or processes are *notably* altered.
	Low	Natural and/ or social functions and/ or processes are *slightly* altered.
	Very Low	Natural and/ or social functions and/ or processes are *negligibly* altered.
	Zero	Natural and/ or social functions and/ or processes remain *unaltered.*
Duration of impact	Construction period	Up to 5 years
	Medium Term	0-10 years after construction
	Long Term	More than 10 years after construction

Table 2: Definition of significance ratings.

SIGNIFICANCE	DESCRIPTIVE RATINGS
High	• High magnitude with a regional extent and long term duration • High magnitude with either a regional extent and medium term duration or a local extent and long term duration • Medium magnitude with a regional extent and long term duration
Medium	• High magnitude with a local extent and medium term duration • High magnitude with a regional extent and construction period or a site specific extent and long term duration • High magnitude with either a local extent and construction period duration or a site specific extent and medium term duration • Medium magnitude with any combination of extent and duration except site specific and construction period or regional and long term • Low magnitude with a regional extent and long term duration
Low	• High magnitude with a site specific extent and construction period duration • Medium magnitude with a site specific extent and construction period duration • Low magnitude with any combination of extent and duration except site specific and construction period or regional and long term • Very low magnitude with a regional extent and long term duration
Very low	• Low magnitude with a site specific extent and construction period duration • Very low magnitude with any combination of extent and duration except regional and long term
Neutral	• Zero magnitude with any combination of extent and duration

Table 3: Probability rating estimations

PROBABILITY	DESCRIPTIVE RATING
Definite	Estimated greater than 99 % chance of the impact occurring.
Highly probable	Estimated 80 to 99 % chance of the impact occurring.
Probable	Estimated 20 to 80 % chance of the impact occurring

Possible	Estimated 1 to 20 % chance of the impact occurring.
Unlikely	Estimated less than 1 % chance of the impact occurring.

Table 4: Confidence ratings

LEVEL OF CONFIDENCE	DESCRIPTIVE RATING
Certain	Wealth of information on and sound understanding of the environmental factors potentially influencing impact
Sure	Reasonable amount of useful information on and relatively sound understanding of the environmental factors potentially influencing the impact.
Unsure	Limited useful information on and understanding of the environmental factors potentially influencing this impact.

2.4 SPECIALIST STUDIES

The following will be explained in detail and the specialist input will be used to address the following issues:

- Baseline Environmental Condition
- Potential Environmental Impacts
- Alternative
- Mitigation measure (Draft environmental management plan)
- Risk assessment and evaluation after closure

The following specialists have been retained by Nzumbululo Heritage Solutions to further investigate the key potential impacts on the proposed project's receiving environment.

Table 5: Project Specialists

Area of specialisation	Name of Specialist	Institutions
Avi-faunal studies	Luke Strandell	Endangered Wildlife Trust
Ecological Studies [Flora and Fauna)	George Bredenkamp	Ecoagent
Archaeological. Palaeontological, Historical and Cultural Heritage studies	Trust Mlilo	Nzumbululo Heritage Solutions

3. PUBLIC PARTICIPATION PROCESS (PPP)

The purpose of the Public Participation Process (PPP) would be to provide I&APs (key stakeholders and the public) with adequate opportunity to have input into the environmental process as is legislatively required under Government Notice No. R543 (NEMA Act No. 107 of 1998). Information dissemination is the corners stone of the PPP exercise. Communication with the I&APs will be conducted through advertising, open meeting and placement of on-site notices. On-site notices will be placed in public areas that are visible and accessible by Interested and /or affected parties. These notices will be in English. A newspaper advert (as shown below) will be placed in the local whereby the I&APs will be given 30 days to comment, the advert will also call for I&APs to register their names and contact details.

Table 6: Sample Public Notice and Advert for the EIA process for the proposed activity.

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) PROCESS

(DEAT REFERENCE NO. (12/12/20/1912)

Notice is hereby given in terms of the Environmental Impact Assessment regulations, published in Government Notice No. R 385 of 2006 of activities identified in terms of Section 24 and 24D of the National Environmental Management Act of 1998 (Act No: 107 of 1998). Nzumbululo Heritage Solutions on behalf of Eskom Distribution Northern Region intend to carryout an Environmental Impact Assessment Study for the proposed construction of 16km 132kv powerline from Kruispunt to Smithfield and Zondagsfontein to Smithfield in the Mpumalanga Province.

DESCRIPTION OF DEVELOPMENT

The proposed development will involve the following activities

- Construction of 16km132kv powerline

LOCATION

The proposed development will take place in Witbank in the Mpumalanga Province. The project will cover the following portions, Kruispunt 15/62, Zondagsfontein 253IR, Rietvlei 62IS and Nooitgedacht 37IS.

PARTICULARS OF PROJECT APPLICANT

Contact Person: Palesa Kuaho
Eskom Distribution Northern Region
P.O Box 223
Witbank
Tel: 013 6933 146
Fax: 086 544 2177
E-mail: kuahop@eskom.coza

PARTICULARS OF ENVIRONMENTAL CONSULTANT

Nzumbululo Heritage Solutions
P.O Box 2202 Halfway House
Tel: 011 021 4937
Fax: 086 544 2177
E-mail: hessa5@telkomsa.net

Interested and Affected Parties are invited to participate in the EIA process by commenting or raising issues pertaining to the above-proposed development. In order to ensure that you are identified as an Interested or Affected Party, please submit your name, contact details and comments to Hellen Mlotshwa of Nzumbululo Heritage Solutions. **PLEASE NOTE THAT YOU SHOULD SUBMIT YOUR CONCERNS/QUERIES ON OR BEFORE THE 20 JUNE 2010**

An Issues and Response Report (IRR) will be compiled, it will include verbal, faxed, telephonic or written ssues raised during meetings with and feed back from the I&APs. The IRR will also include responses to the issues raised. Further public participation process would include the following:

3.1 PUBLIC COMMENT ON THE DRAFT EIR

The Draft EIR will be lodged at appropriate venues (including the Witbank Public Library/ Municipality Offices. Registered I&APs will be notified of the lodging by means of letters, and given a 30-day period in which to comment on the report. During the comment period, a public meeting will be held to enable I&APs to provide feedback on the draft report. The public meeting will be advertised in the local media and in the letters informing registered I&APs of the release of the Draft EIR. The public comments would be consolidated into an Annexure of the EIR. This would take the form of an Issues Trail, which would summarise the issues raised and provide responses thereto. The draft report would then be revised in light of feedback from the public.

3.2 OPPORTUNITY FOR APPEAL

All registered I&APs would be notified in writing of the release of the Environmental Authorization. They would be reminded of their right to appeal against DEA's decision to the national Minister, in terms of the environment legislation and regulations.

4. PROJECT ALTERNATIVES IDENTIFIED DURING SCOPING

The Scoping investigation has reviewed the project alternatives associated with the proposed powerline. Chapter 7 of the Scoping Report describes the screening of alternatives. The following reasonable project alternatives have been identified for further, more detailed investigation during the EIA Phase:

- Alternative alignments for the powerline servitude

5. THE ENVIRONMENTAL IMPACT REPORT [EIR]

The purpose of the EIR would be to undertake a comparative assessment of the significance of the potential environmental impacts of the project alternatives outlined in Section 4 above. The EIR would thus include the following:

- A brief overview of the potential environmental impacts and reasonable alternatives identified during the Scoping Phase.

- A summary of the key findings of the various specialist studies.
- An overview of the public participation process conducted during the compilation of the EIR.
- A detailed assessment of the significance of the potential environmental impacts for the various project alternatives. This assessment, which would use the methodology outlined in Section 2.4, would be informed by the findings of the specialist studies, professional judgment of the environmental practitioners, inputs from the Eskom technical team and comment from the various I&APs.
- An overview of the full range of mitigation measures including an indication of how these would influence the significance of any potential environmental impacts. These mitigation measures would be informed by the specialist studies, professional experience of the environmental practitioners, input from the technical team and comment received from the I&APs.
- A construction phase Environmental Management Plan (EMP) to minimise the impacts of the construction phase.
- A generic operational phase EMP, which would set environmental guidelines for the operation phase of the proposed power substation and associated infrastructure.

5.1. DISTRIBUTION OF ENVIRONMENTAL IMPACT ASSESSMENT REPORT (EIAR)

The draft EIR will be prepared based on the issues identified during the scoping and impact assessment phase and the results from specialist studies. After inclusion of comments from the I&APs, the final EIR will be submitted to DEA.

5.2. AUTHORITY REVIEW

The final EIR will be submitted to DEA for Decision Making.

6. SCHEDULE OF TASKS FOR THE EIA PROCESS

The schedule of tasks below has been created on the assumption that this PoSEIA and scoping report will be approved by the Department of Environmental Affairs. There after, the EIA process would proceed as approved.

Table 7: Proposed Schedule of activities

ACTIVITY	DATE
Submission of scoping report and plan of study for EIA	Feburary 2011
Approval of scoping report and plan of study by DEA	April 2011

Public Participation Process will continue up until the EIR as we have found the land owners	April – May 2011
Circulation of draft EIR to I&APs	April 2011
Comments from I&APs	April 2011
Final EIR (including Issues and Response Report) to DEA	May 2011
Notification to I&APs of outcome of Environmental Authorisation	August 2011

7. CONCLUSION

This plan of study for EIA serves as a guiding tool to DEA, and it informs the authority on how the impact assessment exercise pertaining to the proposed development will be conducted. DEA will review this plan of study for the EIA study and provide a decision if the EAP may proceed to the Impact Assessment phase of the project.

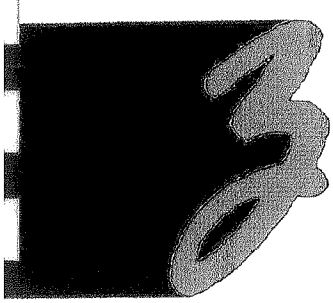
Nzumbululo Heritage Solutions, independent EIA consultants appointed by Eskom Northern Distribution Region, believe that the process outlined in this draft PoSEIA is fully compliant with the requirements of environmental and other auxiliary legislations and applicable regulations. Nzumbululo Heritage Solutions has both the resources and relevant experience to undertake the approach outlined in this document to the satisfaction of both DEA and I&APs.

8. BIBLIOGRAPHY

National Environmental Management Act (Act 107 of 1998), Department of Environmental Affairs and Tourism, South Africa, Pretoria.

EIA Regulations (Government Notice no R.385 and R.387) April 2006, Department of Environmental Affairs and Tourism, South Africa,

EIA Regulations (Government Notice no R.543 and R.544) August 2010, Department of Environmental Affairs and Tourism, South Africa,



Nzumbululo
heritage solutions

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Suite No 4, Eurasia Building, 91 Hans Van Rensburg
Polokwane 0700

Postal Address
Suite 345, PostNet, Private Bag X9307, Polokwane, 0700

+27(0) 15 297 8066

+27(0) 15 297 0059

hessa5@telkomsa.net

30 June 2010

Attention: Witbank Library

Dear: Sir/Madam

REF: ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF 16KM 132kV SMITHFIELD-KHUTHALA POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY, MPUMALANGA PROVINCE.

Please receive the attached draft scoping report for commenting purposes and the Department is given 30 days to comment starting from the above date, your comments will help to finalise the scoping report and submit to the relevant authority which is the Department of Environmental Affairs. You are receiving this Draft Scoping report because Nzumbululo Heritage Solutions identified the Witbank community as the Interested and Affected Party. Therefore those who want to comment on report please do give them a chance.

For more information do not hesitate to the contact EAP named below.

Hope you will find everything in order.

Regards

Hellen Mlotshwa
(Environmental Officer)
Nzumbululo Heritage Solutions
0110214937

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ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF 16KM 132KV POWERLINE IN WITBANK IN THE MPUMALANGA PROVINCE. (DEA REF. NO. 12/12/20/ 1912)

Nzumbululo Heritage Solutions South Africa (HESSA) has been appointed by Eskom Distribution Northern Region as an independent consultant to undertake an Environmental Impact Assessment (EIA) in the form of Scoping for the proposed development which includes the construction of a 16km x 132kv Powerline in Witbank.

The proposed development is an activity that may have detrimental impacts on the environment. A Scoping phase is undertaken to identify the potential environmental impacts of the proposed development, assess their significance and provide mitigation measures to impacts acceptable and the proposed activity sustainable.

BACKGROUND INFORMATION DOCUMENT (BID)

Invitation to register and comment, June 2010
Purpose of this document

The purpose of this document is to afford stakeholders the opportunity to register as Interested and Affected Parties (I&APs) in the Scoping phase process and to obtain their initial comments and contributions to the proposed construction of the 16km x 132kv powerline.

The purpose of this process is to identify and evaluate potential impacts, to recommend measures to avoid or reduce negative environmental impacts and to enhance positive environmental impacts.

The EIA decision making authority is the Department of Environmental Affairs (DEA) in accordance with section 24 (5) of the National Environmental Management Act (Act 107 of 1998). The EIA will be conducted according to DEAT's EIA guidelines.

Please register by 15 June 2010
You will be included on the stakeholder database and receive further documents for comment when they are available. Your comment will ensure that all relevant issues are incorporated in the Scoping phase. Either complete and submit the enclosed registration /comment sheet, write a letter, call or e-mail our office, if you wish to raise any concerns or comments regarding this EIA.

Your comment is important

Your comments will ensure that all relevant issues are evaluated in the EIA. You are requested to complete the enclosed registration/comment sheet, write a letter, call or email our office (see information box for contact details). You will then receive further information about the proposed project and the EIA.

Please also inform us if you require a copy of the EIA Regulations, the User Guide to the National Environmental Management Act (NEMA) or any other material that will assist you to comment.

Description of the project is as follows.

- Construction of a 16 km 132KV powerline from Kruispunt to Smithfield and Zondagsfontein to Smithfield.

Phase 1

- Establish 1x132kv Feeder bay at Zondagfontein SS
- Build 1x6km Chickadee line from Zondagfontein SS to Smithfield
- Establish a 20MVA 132 Switching station at Smithfield.

Phase 2

- Establish 1x132kv feeder bay at Kruispunt MTS
- Build 1x132kv 10km chickadee line from Kruispunt MTS to Smithfield new point of supply.

Project location
The proposed project study area is located on the following portions, Kruispunt 15/62, Zondagfontein 253IR, Rietvlei 62IS, Nooitgedacht 37IS. The study area is located at the following co-ordinates readings: S26° 11'57, 1" and E029° 05"18, 3", S26° 12" 28, 9" and E 029° 05" 25, 0", S26.C 11 55.3 and E029°05 20,7", S26° 10" 18.3and E029° 02" 52.8

AN ENVIRONMENTAL IMPACT ASSESSMENT (EIA)
What is an EIA?
An EIA is a planning and decision-making process undertaken in terms of section 24 (5) of the National Environmental Management Act (NEMA), Act No 107 of 1998. The EIA has two parallel and integrated processes namely, a technical and public participation process. The technical process investigates "hard" information: facts based on scientific and technical study, statistics or technical data. It identifies the potential negative and positive consequences of a proposed project or development at an early stage, and recommends ways to enhance

positive impacts and to avoid or reduce or mitigate negative impacts. The findings of an EIA also guide the technical and financial investigations. The EIA regulations require that an EMP be developed. The provisions of the EMP will be legally binding on Eskom and on its contractors.

Eskom has a policy that ensures that stakeholders participate and provide inputs in its processes. Public participation is a cornerstone of any EIA to ensure that the process is fair, open, transparent, inclusive and provides stakeholders with sufficient information, affords them ample opportunity to contribute and makes them feel that their contributions are valued.

The PPP is designed to provide sufficient and accessible information to I&APs in an objective manner to assist them to:

- Raise issues of concern and make suggestions for alternatives and enhanced benefits;
- Contribute local knowledge;
- Verify that their issues have been captured and considered by the technical investigations;
- Comment on the findings of the EIA.

Activities applied for:

The following activities listed in terms of Sections 24 and 24D of NEMA (Government Notice 386 of 21 April 2006) will be assessed in the EIA for the project. The Scoping phase will be undertaken in accordance with the regulations promulgated in terms of the National Environmental Management Act (Act 107 of 1998) as ammended:

Number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice)	Description of activity:
Government Notice R 387 (21April 2006)	1 (L)	The transmission and distribution of above ground electricity with a capacity of 120kilovolts or more.

Approach to the Scoping phase

The Scoping Phase will include the following activities:

- Meetings with Authorities to agree on process and study requirements;
- Conducting Public Participation Process
- Identification of issues and alternatives
- A description of the proposed activity.
- Field investigation
- Distribution of this Background Information Document (BID) and invitation to contribute to EIA process to I&APs in the project area and beyond;
- Advertisements in selected local and regional newspapers to announce opportunities to participate;
- Stakeholder meetings with relevant representatives to announce the project;
- Progress feedback letter to be issued and announcements made of the availability of Scoping report and Issues and Response Report;
- Distribution of draft Scoping Report, including Issues and Response Report, for comment;
- Specialist studies (ecology, avifauna and archaeological)
- Progress feedback to stakeholders;
- Compilation of an Environmental Management Plan (EMP)

Decision-making Phase of the EIA:

- Finalise the Scoping Report based on comment received, for submission to the DEA; and
- After obtaining environmental authorization for the project EIR, advise stakeholders of the decision.
- Start the EIR and finalise with the comments received on the EIR phase and submit to DEA with specialist reports.

Preliminary list of environmental issues

A number of potential environmental issues have already been identified and are listed here to assist I&APs to understand the investigations to be undertaken as part of the environmental assessment process

Potential environmental issues are:

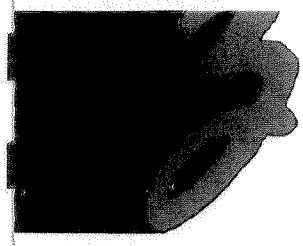
- Impacts on the ecology (fauna and flora);
- Potential nuisance impacts during construction (e.g. dust, noise, etc);
- Social and socio-economic impacts during construction related to influx of construction workers;
- Potential safety impacts;
- Potential of traffic impacts during construction; and
- Potential of impacts on property values

Interested and Affected Parties (I&APs) identified thus far

- Mdala Mpumalanga Department of Agriculture and Environment
- Eskom Distribution Northern Region
- Department of Minerals and Energy
- Department Of water Affairs
- Emalahleni Municipality
- Smithfield farmers
- Ogies Town Council
- Mantsi Development Initiatives
- BHP Billiton

Return address for comments:

Nzumbululo Heritage Solutions
P.O Box 2202 Halfway House
Midrand
1685
Tel: (011) 021 4937;
Fax: (086)544 2177
Email: hessa5@telkomsa.net



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hessa5@telkomsa.net

ISSUE/ RESPONSE/COMMENT AND REGISTRATION FORM (INTERESTED & AFFECTED PARTIES) FOR THE PROPOSED CONSTRUCTION OF 132KV POWERLINE IN WITBANK, MPUMALANGA PROVINCE.

Please complete this form and return it to Nzumbululo Heritage Solutions to the address above.

Attention Hellen Mlotshwa

TITLE (Prof/Mr/Mrs/Ms)		**FIRST NAME**	
SURNAME			
CAPACITY (e.g. Secretary/Director/Resident)			
ORGANISATION			
POSTAL ADDRESS		**POSTAL CODE**	
TEL. NO.: ( )		**CELL NO.:**	
FAX NO: ( )		**E-MAIL ADDRES:**	

PLEASE LIST ANY COMMENTS/ISSUES/CONCERNS THAT YOU MAY HAVE IN REGARDS TO THIS PROJECT. (Please use separate sheet, if required)

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APPENDIX 6.3: PROOF ADVERT ON NEWSPAPER

classifieds

VACANCY CREDITORS LADY
Reconcile Creditors statements and Pay via EFT S
Pastel Accounting and MS Office Essential Strong Experience Required
Able to work with min supervision
Computer Literate and Accurate
Professional, Friendly and Motivated
Fax max 3 pg CV to 086 587 2345
EW006214

VAKANTE SENIOR ADMINISTRTIEWE POS BESKIKBAAR
Persoon moet tweetalig wees met goeie mense verhoudings. Benodig rekenaar en goeie administratiewe onderwinding. Faks u CV na 013 656 5954 k/u. Ons sal u kontak indien u aansoek oorweeg word
EW006352

VENTER DE JAGER OUDITEURE
Benodig die dienste van Boekhouers
Vereistes
Moet Finansielestate kan opstel en vertroud wees met Pastel
E-mail CV na vdj @vdjwitbank.co.za of Fax na
013 6566366
EW006212

1. FITTER & TURNER NEEDED

2. REPRESENTATIVE NEEDED
Mining & Industrial sector
Past experiences in these sectors are essentail.
Fax CV's to 013 690 1117 or 086 691 1525
BB005995

2010 WORLD CUP JOB OPPORTUNITIES
Contact No. 0861 999981
BB006057

0836 Management

HR MANAGER
Mpumalanga Mining Plus minus R900 000pa excluding bonus

licence

BOOKKEEPER (WT010)
Ful accounting to balance sheet. Minimum 5 years experience
Pastel Partner required

SMS HR City, Surname, Position, Required Salary To 35002
SMS CHARGED AT R3.00/sms
Example: hrcity jobs de beer buyer R5 000
No CV will be considered if the position wanted is not reflected on the 1st page of the CV
Tel (013) 243 5556
SR046448

PRESTIGE PERSONNEL
97 MANDELA STREET WITBANK
TEL (013) 690 2311
FAX (013) 690 1282
prestige@lantic.net
VISIT OUR WEB AT

www.prestigepersonnel.co.za OR VIEW www.careerjunction.co.za TO REGISTER YOUR CV FREE ON LINE. & VIEW OUR POSITIONS

o **HSEC OFFICER (EE)**
(Witbank) Qual: Electrical or Mech. Artisan. Safety Qualification. SAMTRAC NOSA with Mining or Industry Environ exp.
o **VOHE (Training Officer)**
(Witbank) Long term contract -Market related package. Ideal Semi retired with advanced Mine Environmental Control cert
o **AA CAR SALESMAN /LADY**
Stable person with Car sales exp. Sal: R4 500-R5 000.00 basic + comm.
o **PHOTO COPIER TECHNICIAN**
3-5 yrs exp on copiers & faxes
o **PROFESSIONAL NURSES**
(Nelspruit/Barberton)
Nursing exp. Wards. Theatre of ICU
o **MALE SALES REP**
(Witbank) Selling Mining supplies
o **STOREMAN**
Mechanical Stores exp
Comp Lit. R 5-8 000.00pm
o **DESIGNS CLERK**

o **ELECTRICIAN**
Qual:N3 Cranes, HT Furnaces exp
o **ELECTRICAL TECHNICIAN**
N6. Trade test 5yrs exp on PLC Systems, CNC Machinery, Scada Systems Induction & Arc Furnaces.
BB006028

0850 Sales / Marketing

SALES REP REQUIRED
To start immediately. Must have own reliable vehicle. Minimum 3 years retail experience. Basic, car allowance and commision
Fax CV to:
086 697 4307.
BG006668

0859 Domestic

BETTY MASANGO
Soek huis werk vir 5 dae n week. Slaap - uit.
072 532 0747
EW006303

DORA IS LOOKING FOR DOMESTIC WORK
Tuesday and Thursday
Sleep out.
073 912 8367
BG006661

ELIZABETH IS LOOKING FOR DOMESTIC WORK
3 - 5 Days a week. Willing to start immediately
083 767 8356
BG006669

ELIZABETH SOEK HUISWERK
For 5 days a week. Sleep in or out.
071 017 0047
BG006624

HAGIRAH IS LOOKING FOR DOMESTIC WORK
Five days a week. Sleep out.
084 890 2515
BB006031

I AM LOOKING FOR DOMESTIC WORK
3 - 5 Days a week. English speaking
079 153 0755
BG006684

MAXIA IS LOOKING FOR DOMESTIC WORK
Can do cleaning, washing and ironing. 5 Days a week. Sleep out
078 161 8675
BG006623

POPPIE THELA
Soek huiswerk vir 3 dae. Slaapuit
082 094 9587
EW006401

ROSE MIRRIAM MAHLANGU
Soek huiswerk Maandag - Vrydag. In-slaap
0738908885
EW006400

SOPHI MOTHUDI
Is looking for domestic work for 5 days a week. Sleep-in
072 267 8501
EW006302

THANDI ANNA SKOSANA
Soek huiswerk vir 2 - 3 dae Slaap uit
073 314 4059
EW006303

VERONICA IS LOOKING FOR DOMESTIC WORK
Mon - Fri. Sleep out.
073 965 0900
BG006671

0900 LEGALS

0910 Public / Legal Notices

NOTICE OF APPLICATION FOR ESTABLISHMENT OF A TOWNSHIP LOCAL AUTHORITY NOTICE OF 2010 EMALAHLENI LOCAL MUNICIPALITY
The Emalahleni Local Municipality hereby gives notice in terms of Section 108(1), read with Section 107 of the Town Planning and Township Ordinance, 1986 (Ordinance 15 of 1986), that an application to establish the Township referred to in the annexure attached hereto, has been received by it.
Particulars of the application will lie for inspection during normal office hours at the office of the Municipal

Full name of the Applicant: Urban Dynamics (Mpumalanga) Inc.
Number of erven in proposed Township:
Business 2: 3
Private Open Space: 2
Total: 5
Description of land on which township is to be established:
Portion 234 of the Farm Zeekoewater 311 - JS
Situation of proposed Township:
The subject site is located North of Del Judor Extension 4 on the Corner of Nita and Mandela Avenue, eMalahleni
C/O Urban Dynamics (Mpumalanga) Inc
Propark Building
44 Wes Street
Po Box 3294
Middelburg
1050
Tel: 013 243 1219
Fax: 013 243 1321
BG006475

KENNISGEWING VAN AANSOEK OM STIGTING VAN DORP
KENNISGEWING VAN 2010
EMALAHLENI PLAASLIKE MUNISIPALITEIT
Die Emalahleni Plaaslike Munisipaliteit, gee hiermee ingevolg Artikel 108(1) gelees saam met Artikel 10 van die Ordonnansie op Dorpsbeplanning en Dorpe, 1986 (Ordonnansie 15 van 1986), kennis dat 'n aansoek om die dorp in die bylae hierby genoem, te stig deur hom ontvang is
Besonderhede van die aansoek lê ter insae gedurende gewone kantoorure by die kantoor van die Munisipale bestuurder, Mandelalaan, eMalahleni, 1035 vir 'n tydperk van 28 dae vanaf 14 Mei 2010.
Besware teen of vertoë ten opsigte van die aansoek moet binne 'n tydperk van 28 dae vanaf 14 Mei 2010 skriftelik in tweevoud by of tot die Munisipale bestuurder, by bovermelde adres of by Posbus 3, Witbank, 1035 ingedien of gerig word
Bylae
Naam van dorp: President Park Uitbreiding 6
Van Aansoek

op die hoek van Nita en Mandelalaan, eMalahleni
P/A Urban Dynamics (Mpumalanga) Inc
Propark gebou
Wesstraat 44
Posbus 3294
Middelburg
1050
Tel:013 243 1219
Fax:013 243 1321
BG006475

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) PROCESS (DEAT REFERENCE NO. (12/12/20/1912)
Notice is hereby given in terms of the Environmental Impact Assessment regulations, published in Government Notice No. R 385 of 2006 of activities identified in terms of Section 24 and 24D of the National Environmental Management Act of 1998 (Act No. 107 of 1998) Nzumbululo Heritage Solutions on behalf of Eskom Distribution Northern Region intend to carryout an Environmental Impact Assessment Study for the proposed construction of 16km 132kv powerline from Kruispunt to Smithfield and Zondagsfontein to Smithfield in the Mpumalanga Province.

DESCRIPTION OF DEVELOPMENT
The proposed development will involve the following activities
• Construction of 16km132kv powerline
LOCATION
The proposed development will take place in Witbank in the Mpumalanga Province. The project will cover the following portions: Kruispunt 15'62, Zondagsfontein 253IR, Rietvlei 62IS and Nooitgedacht 37IS.

PARTICULARS OF PROJECT APPLICANT
Contact Person: Palesa Kuaho
Eskom Distribution Northern Region
P O Box 223
Witbank
Tel: 013 6933 146
Fax: 086 544 2177
E-mail: kuahop @eskom.co.za

PARTICULARS OF ENVIRONMENTAL CONSULTANT
Nzumbululo Heritage Solutions
P O Box 2202 Halfway House
Tel. 011 021 4937
Fax. 086 544 2177
E-mail: hessa5 @telkomsa.net

Interested and Affected Parties are invited to participate in the EIA process by commenting or raising issues pertaining to the above-proposed development. In order to ensure that you are identified as an Interested or Affected Party, please submit your name, contact details and comments to Hellen Mlotshwa of Nzumbululo Heritage Solutions. **PLEASE NOTE THAT YOU SHOULD SUBMIT YOUR CONCERNS /QUERIES ON OR BEFORE THE 21 JUNE 2010**
BB006056

EMALAHLENI LOCAL MUNICIPALITY APPLICATION FOR SPECIAL CONSENT
Notice is hereby given in terms of Clause 7 of the Peri-Urban Town Planning Scheme, 1975,that I, **PAUL STRYDOM** of the firm Smit & Fisher Planning (Pty) Ltd, the undersigned, intend applying to the Emalahleni Local Municipality for consent to use, **Erf 687, Phola Township** for the purpose of the construction of a cellular

APPENDIX 6.4: LETTER SENT TO IAPS FOR PUBLIC REVIEW FOR DRAFT SCOPING REPORT

Nzumbululo
heritage solutions

Physical Address
Suite No 4, Eurasia Building, 91 Hans Van Rensburg
Polokwane 0700

Postal Address
Suite 345, PostNet Private Bag X9307, Polokwane, 0700

+27(0) 15 297 8066

+27(0) 15 297 0059

hessa5@telkomsa.net

30 June 2010

Attention: Witbank Library

Dear: Sir/Madam

REF: ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF 16KM 132kV SMITHFIELD-KHUTHALA POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY, MPUMALANGA PROVINCE.

Please receive the attached draft scoping report for commenting purposes and the Department is given 30 days to comment starting from the above date, your comments will help to finalise the scoping report and submit to the relevant authority which is the Department of Environmental Affairs. You are receiving this Draft Scoping report because Nzumbululo Heritage Solutions identified the Witbank community as the Interested and Affected Party. Therefore those who want to comment on report please do give them a chance.

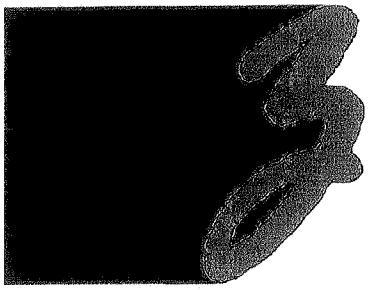
For more information do not hesitate to the contact EAP named below.

Hope you will find everything in order.

Regards

Hellen Mlotshwa
(Environmental Officer)
Nzumbululo Heritage Solutions
0110214937

APPENDIX 6.5: LETTER SENT TO IAPS FOR PUBLIC MEETING INVITATION



Nzumbululo
heritage solutions

Physical Address
Suite No. 4, Eurasia Building, 91 Hans Van Rensburg
Polokwane 0700

Postal Address
Suite 345, PostNet, Private Bag X9307, Polokwane, 07

+27(0) 15 297 8066

+27(0) 15 297 0059

hessa5@telkomsa.net

12 August 2010

Dear Stakeholder

REF: ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF 16KM 132kV SMITHFIELD –KHUTHALA POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY, MPUMALANGA PROVINCE (REF Number: 12/12/20/1912)

Nzumbululo Heritage Solution (HESSA) would like to invite you on behalf of their client Eskom Distribution Northern Region to the Environmental Impact Assessment (EIA) public meeting for the proposed construction of a 16km 132kV Smithfield –Khuthala powerline. The proposed project is in Emalahleni Local Municipality, Mpumalanga province. This follows the release of draft scoping report to various departments and Witbank Library on the 30th June 2010.

The main objectives of the meeting are:

- To introduce the proposed development to all IAPs,
- To discuss the proposed study for the EIA process,
- Gather IAPs' input and comments regarding the proposed project, and
- Register new Interested and Affected Parties (IAPs)

The meeting will be held at following details:
Date: Monday 23rd August 2010
Time: 14h00 – 16h00
Place: Emalahleni Local Municipality Boardroom (Previously called Ogies Town Council)
Physical address: Old Primary School Building, Main Rd, Ogies

For any clarification and further information that might be required prior to the meeting, please contact us at following details.

Kelebogile Mogajane
Environmental Practitioner

Nzumbululo Heritage Solutions
PO Box 2202, Halfway House, 1685
Tel: 011 021 4937
Mobile: 082 578 5685

Nzumbululo
Heritage solutions

Unit 7 778 Richards Drive Midrand 1685
PO Box 4106, Halfway House 1685
tel. 011 021 4937 fax. 086 544 2177
hessa5@telkomsa.net
www.nzumbululo.com

22 November 2010

Dear Stakeholder

REF: ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF 16KM 132kV SMITHFIELD POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY, MPUMALANGA PROVINCE (REF Number: 12/12/20/1912)

Nzumbululo Heritage Solution (HESSA) would hereby like to invite you on behalf of their client Eskom Distribution Northern Region to the Environmental Impact Assessment EIA second public meeting for the proposed construction of a 16km 132kV Smithfield powerline. The proposed project is in Emalahleni Local Municipality, Mpumalanga province. This follows the release of draft scoping report to various departments and Witbank Library on the 30th June 2010 and public meeting, which was held on 23 August 2010.

The main objectives of the meeting are:

- To introduce the proposed development to all IAPs,
- To discuss the proposed study for the EIA process,
- Gather IAPs' input and comments regarding the proposed project, and
- Register new Interested and Affected Parties (IAPs)

The meeting will be held at following details:
Date: 2nd December 2010
Time: 18h00
Place: Phola Community Hall
Physical address: 697 Vulindlela Street, Phola Location, Ogies

For any clarification and further information that might be required prior to the meeting, please contact us at following details.

Yours truly,

Kelebogile Mogajane
Environmental Practitioner
for Nzumbululo Heritage Solutions
PO Box 4106, Halfway House
Tel: 011 021 4937
Fax: 086 544 2177

APPENDIX 6.6: SLIDES FOR THE PUBLIC MEETING HELD ON 23 AUGUST 2010 AND 2ND DECEMBER 2010

Ngumbululo
heritage solutions south africa

MINUTES OF THE PUBLIC PARTICIPATION MEETING FOR THE PROPOSED CONSTRUCTION OF 16km 132 kV SMITHFIELD POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY (Ref. Number: 12/12/20/1912)

Venue : Emalahleni Local Municipality, Ogies Boardroom.

Date : 23 August 2010

Time : 14.00

Purpose of the meeting : To inform the interested and affected parties about the above named project.

Agenda

- Welcome, Introduction, Objectives and Proposed Agenda
- Project Introduction
- Project description by Eskom
- Presentation of the Proposed Process for the Environmental Authorization Studies
- Questions and Discussion
- Way Forward
- Closure

1. Opening and welcome

The Environmental Officer Miss Kelebogile Mogajane started by welcoming everybody present.

2. Attendance and apologies

The attendance register was circulated. (Attendance register attached to minutes- Appendix A).

3. Objective of the meeting

The Environmental officer Kelebogile Mogajane mentioned the items to be discussed as follows.

- To introduce the proposed project
- To introduce the proposed environmental authorization process for this project
- Gather issues of concern about the proposed project and process being adopted

Presentation by Nzumbululo Heritage Solutions

Miss Kelebogile Mogajane (KM) the Environmental Officer from Nzumbululo Heritage Solutions introduced herself to the interested affected parties.

KM, the Environmental Assessment Practitioner (EAP) for the project, facilitated the meeting and presented the background, motivation and location of the proposed project. The proposed project entails construction of 16km 132 kV Smithfield powerline at Emalahleni Local Municipality. This project is a listed activity in terms of sections 24 and 24D of NEMA (Government Notice 387 of 21 April 2006) 1j.

> *The construction of facilities or infrastructure, including associated structures or infrastructure, for transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more.*

Interested and affected parties should be given an opportunity to raise concerns, issues or comments about the proposed project prior to the commencement of the project. Details of the presentation are attached in Appendix B.

5. Project Details

Mr Ngomane of Eskom presented details of the project. Slides are attached in Appendix C.

4. Questions and Comments.

After the presentation Miss Mogajane invited questions, comments or issues concerning the proposed development.

Comments

- Mr Breet requested clarity of the proposed location of the powerline- Clarity was provided to Mr Breet. It was concluded that the proposed site for the powerline will not Mr Breet's farm.
- Miss Nchabeleng requested clarity of the project details- This was provided to Miss Nchabeleng during meeting
- Miss Naude of Eskom requested that we include Alan Emery as part of the IAPs for the project.

5. Vote of thanks and closure

The Environmental officer Kelebogile Mogajane everybody who attended their meeting for their input to the project and for attending the meeting.

MINUTES OF THE PUBLIC PARTICIPATION MEETING FOR THE PROPOSED CONSTRUCTION OF 16km 132 kV SMITHFIELD POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY

Venue : Emalahleni Local Municipality, Ogies Boardroom.
Date : 23 August 2010
Time : 14.00
Purpose of the meeting : To inform the interested and affected parties about the above named project.

Agenda

- To introduce the proposed project
- To introduce the proposed environmental authorization process for this project
- Gather issues of concern about the proposed project and process being adopted

1. Opening and welcome

The Environmental Officer Miss Kelebogile Mogajane started by welcoming everybody present.

2. Attendance and apologies

The attendance register was circulated. (Attendance register attached to minutes- Appendix A).

3. Items for discussion

The Environmental officer Kelebogile Mogajane mentioned the items to be discussed as follows.

1. Project Introduction
2. Project description by Eskom
3. Presentation of the Proposed Process for the Environmental Authorization Studies
4. Questions and Discussion

Presentation by Nzumbululo Heritage Solutions

Miss Kelebogile Mogajane (KM) the Environmental Officer from Nzumbululo Heritage Solutions introduced herself to the interested affected parties.

KM, the Environmental Assessment Practitioner (EAP) for the project, facilitated the meeting and presented the background, motivation and location of the proposed project. The proposed project entails construction of 16km 132 kV Smithfield powerline at Emalahleni Local Municipality. This project is a listed activity in terms of sections 24 and 24D of NEMA (Government Notice 387 of 21 April 2006) 1j.

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5. Vote of thanks and closure

The Environmental officer Kelebogile Mogajane everybody who attended their meeting for their input to the project and for attending the meeting.

PUBLIC PARTICIPATION MEETING FOR THE PROPOSED CONSTRUCTION OF 16km 132 kV SMITHFIELD POWERLINE AT EMALAHLENI LOCAL MUNICIPALITY

Nzumbululo

OBJECTIVES OF THE MEETING

- To introduce the proposed project
- To introduce the proposed environmental authorization process for this project
- Gather issues of concern about the proposed project and process being adopted

Nzumbululo

PROPOSED AGENDA

- Welcome, Introduction, Objectives and Proposed Agenda
- Project Introduction
- Project description by Eskom
- Presentation of the Proposed Process for the Environmental Authorization Studies
- Questions and Discussion
- Way Forward
- Closure

Nzumbululo

PROJECT INFORMATION

Client	Eskom Distibution Northern Region
Independent EAP	Nzumbululo Heritage Solutions South Africa (HESSA)
Authorities	DEA
Reference number	12/12/20/1912

Nzumbululo

MOTIVATION

- Khutala Colliery to provide Kendal Power Station (KPS) with 13.3.Mt coal/yr until 2033.
- Increased demand for electricity in southern Africa. Demand anticipated to increase to 16.2Mt/a from 2010 to 2033.
- Khutala Mineral Optimisation Project in pre-feasibility study- medium to long term
- Short term - significant coal resource to be mined by BECSA
  - Khutala Southern Access project
  - Currently the existing man and material facilities are 12km from the underground workings, with ventilation in the south also becoming an increasing issue of concern.

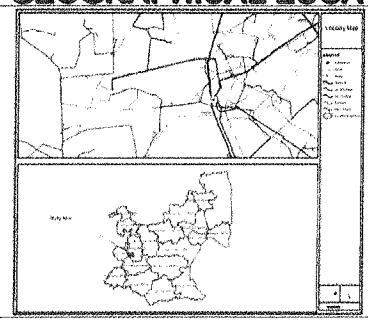
Nzumbululo

LOCATION

- **Ogies, Emalahleni Local Municipality**
- **Kruispunt substation to Smithfield Substation and to Zondagfontein Substation**
- Farms:
  - Portion 1, 2, 3 of Smithfield 44IS,
  - Portion 1 of Nasmanus 132IS,
  - Portion 14 of Rietvlei 62 IS,
  - Portion 9 of Nooitgedacht 37 IS,
  - Portion 8 of Nooitgedacht 37 and
  - Portion 15 of Nooitgedacht 37IS

Nzumbululo

GEOGRAPHICAL LOCATION



Ngumbululo

SPOT IMAGE OF PROJECT LOCATION

Ngumbululo

PROJECT DESCRIPTION

Ngumbululo

CURRENT LAND USE

- The dominant activities include commercial agriculture, substations, mining and human settlement.
- Existing powerlines

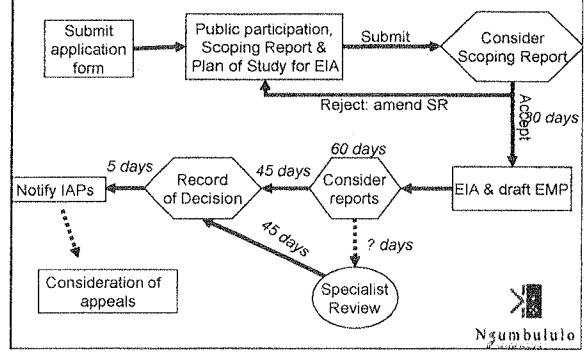
Ngumbululo

EIA Process: Applicable Legislation

- National Environmental Management Act (NEMA) No 107 of 1998
  - R387: 1(L) :*The construction of facilities or infrastructure, including associated structures or infrastructure, for transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more.*

Ngumbululo

EIA PROCESS FLOW DIAGRAM



Ngumbululo

SCOPING PHASE

- The Scoping phase involved the following activities:
- Meetings with Authorities to agree on process and study requirements;
- Conducting Public Participation Process
- Identification of issues and alternatives
- A description of the proposed activity and alternatives
- Field investigation
- Distribution of this Background Information Document (BID) and invitation to contribute to the process to I&APs in the project area and beyond;
- Distribution of Scoping Report, including Issues and Response Report, for comment;
- Progress feedback to stakeholders;

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LIKELY ENVIRONMENTAL IMPACT

Economic- job creation, power

- Social and Well-being during construction
- Natural environment- birds, fauna and wetlands

SPECIALIST STUDIES FOR EIA

- Avifauna
- Heritage
- Ecological

Nzumbululo

EIA PHASE

- Specialist studies
- Draft EIA report with Impact Assessment and Management plan
- Public Review of draft EIA report
- Finalization of EIA report and submission to authorities
- Advertising of ROD

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IAPs IDENTIFIED THUS FAR

- Mpumalannga Department of Agriculture and Land Aministration
- Eskom Distribution Northern Region
- Neighbouring businesses:
  - Anglo American
  - Khuthala Colliery, etc.
- Emalahleni Local Municipality
- Farm owners
- Government departments (DME & DWAF)

Nzumbululo

Discussions and questions???

Nzumbululo

THANK YOU

- Record of discussions
- Any further additions to the scope
- Thank you
- Queries: Kelebogile Mogajane

(011) 021 4937; hessa5@telkom.net

Nzumbululo

Attendance Register of Public Meeting for Swithfield Powerline

Date: 23/08/2010 **Time:** 14h00 **Venue:** Emalaheni LM (Ogies) Boardroom

Name and Surname	Organisation and designation	Postal address	Email address	
Joseph Ngomane	Eskom Network Planner	P.O. Box 223 Witbank 1035	NgomanLJ@eskom.co.z	Tel: 0136933598
				Fax:
Cornie Breet	Gde U Breet Owner Swithfield	P Box 303 Ogies 2230	rodavos@telkomsa.net	Tel: 0824555822
				Fax:
Thea Naudé	Eskom Tx - KCE	PO Box 223 Witbank 1035	naudet@eskom.co.za	Tel: 013-6933442
				Fax: 0865600074
Mamma Mamma	Eskom Dx	P.O. Box 223 Witbank 1035	Mammm@eskom.co.za	Tel: 013 693 3735
				Fax: 086 663 7756
Palesa Kuaho	Eskom Dx	P O Box 223 Witbank 1035	Kuahop@eskom.co.z	Tel: 013-6933146
				Fax: 0
Andries Thebe	Eskom Dx	P.O Box 223 Witbank 1035	thebema@eskom.co.za	Tel: 083 462 350
				Fax: 086 6683144
Patience Nkhabeleg	Khutala Colliery	P.O.Box 220 Ogies 2230	Patience.Nkhabeleg@khutala.com	Tel: 013 648 5008
				Fax: 013 648 1423
				Tel:
				Fax:
				Tel:
				Fax:
				Tel:
				Fax:
				Tel:
				Fax:
				Tel:
				Fax:
				Tel:
				Fax:

Date: 2 December 2010

PUBLIC PARTICIPATION MEETING FOR THE PROPOSED CONSTRUCTION OF 16km 132 kV SMITHFIELD POWERLINE AT OGIES, EMALAHLENI LOCAL MUNICIPALITY

Nzumbululo

OBJECTIVES OF THE MEETING

- To introduce the proposed project
- To introduce the proposed environmental authorization process for this project
- Gather issues of concern about the proposed project and process being adopted

Nzumbululo

PROPOSED AGENDA

- Welcome, Introduction, Objectives and Proposed Agenda
- Project Introduction
- Project description
- Presentation of the Proposed Process for the Environmental Authorization Studies
- Questions and Discussion
- Way Forward
- Closure

Nzumbululo

PROJECT INFORMATION

Client	Eskom Distibution Northern Region
Independent EAP	Nzumbululo Heritage Solutions South Africa (HESSA)
Authorities	DEA
Reference number	12/12/20/1912

Nzumbululo

MOTIVATION

- Khutala Colliery to provide Kendal Power Station (KPS) with 13.3.Mt coal/yr until 2033.
- Increased demand for electricity in southern Africa. Demand anticipated to increase to 16.2Mt/a from 2010 to 2033.
- Khutala Mineral Optimisation Project in pre-feasibility study- medium to long term
- Short term - significant coal resource to be mined by BECSA
  - Khutala Southern Access project
  - Currently the existing man and material facilities are 12km from the underground workings, with ventilation in the south also becoming an increasing issue of concern.

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LOCATION

- **Ogies, Emalahleni Local Municipality**
- **Kruispunt substation to Smithfield Substation and to Zondagfontein Substation**
- Farms:
  - Portion 1, 2, 3 of Smithfield 44IS,
  - Portion 1 of Nasmanus 132IS,
  - Portion 14 of Rietvlei 62 IS,
  - Portion 9 of Nooitgedacht 37 IS,
  - Portion 8 of Nooitgedacht 37 and
  - Portion 15 of Nooitgedacht 37IS

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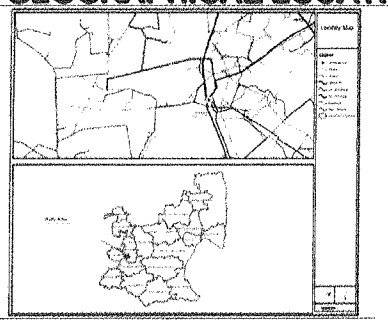
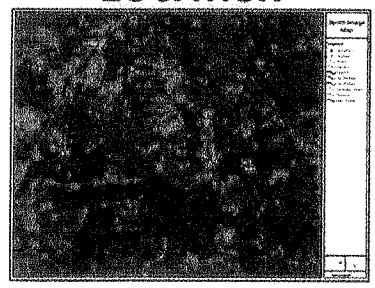
GEOGRAPHICAL LOCATION



Nzumbululo

SPOT IMAGE OF PROJECT LOCATION



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PROJECT DESCRIPTION

1.Zondagfontein 132/22kV Substation Work

- Equip a full 132kV feeder Bay with the following
- 2 X 132kV Busbar Isolators
- 1 x 132kVCT
- 1 x132kVCB
- Build +/- Chickadee 132kV line from the above feeder to new Smithfield Switching Station

2.Kruispunt MTS

- Equip a full 132kV feeder Bay with the following
- 2 X 132kV Busbar Isolators
- 1 x 132kVCT
- 1 x132kVCB
- Build +/- 10 Chickadee 132kV line from the above feeder to new Smithfield Switching Station

3.132kV Smithfield Switching Station

- Build an new Smithfield Switching Station consist of the following:
  - 4 x fully feeder bays(the same as the above's and view the proposed SED for clarity)
- 132kV Tubular Busbar with Bus Section and 2 x 132kV,VT's

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CURRENT LAND USE

- The dominant activities include commercial agriculture, substations, mining and human settlement.
- Existing powerlines

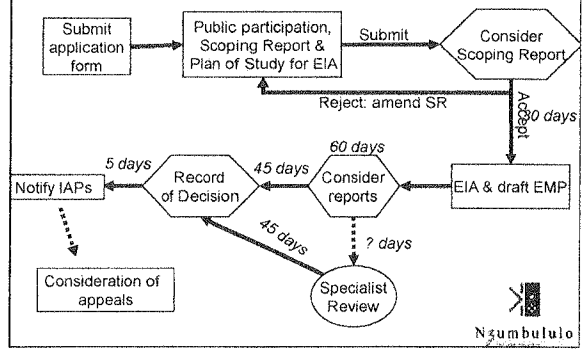
Nzumbululo

EIA Process: Applicable Legislation

- National Environmental Management Act (NEMA) No 107 of 1998
  - R387: 1(L) : *The construction of facilities or infrastructure, including associated structures or infrastructure, for transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more.*

Nzumbululo

EIA PROCESS FLOW DIAGRAM



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SCOPING PHASE

- The Scoping phase involved the following activities:
- Meetings with Authorities to agree on process and study requirements;
- Conducting Public Participation Process
- Identification of issues and alternatives
- A description of the proposed activity and alternatives
- Field investigation
- Distribution of Scoping Report, including Issues and Response Report, for comment;

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PPP Scoping Phase

- BID and Response Sheet sent to IAPs
- Advertisement on newspaper
- Public Notices
- Draft Scoping Report for public review
- Public Meeting
- Second Public Meeting
- One-on-one discussion with directly affected

LIKELY ENVIRONMENTAL IMPACT

- Social and Well-being during construction
- Natural environment- birds, fauna and wetlands, visual, vegetation

SPECIALIST STUDIES FOR EIA

- Avifauna
- Heritage
- Ecological

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EIA PHASE

- Specialist studies
- Draft EIA report with Impact Assessment and Management plan
- Public Review of draft EIA report
- Finalization of EIA report and submission to authorities
- Advertising of ROD

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Project Timeframe

- Send Draft Scoping Report for review- 15 Dec 2010 – 15 February 2011
- Submit Scoping Report to authorities – 15 February 2011
- Review EIA and EMP-End March 2011
- PPP for EIA Phase- April 2011
- Submit EIA and EMP to authorities- May 2011

IAPs IDENTIFIED THUS FAR

- Mpumalanga Department of Agriculture and Land Aministration
- Eskom Distribution Northern Region
- Neighbouring businesses:
  - Anglo American
  - Khuthala Colliery, etc.
- Emalahleni Local Municipality
- Land owners
- Government departments (DME & DWAF)

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Discussions and questions???

Ngumbululo

THANK YOU

- Record of discussions
- Any further additions to the scope
- Thank you
- Queries: Kelebogile Mogajane

(011) 021 4937; hessa5@telkom.net

Ngumbululo

Nzumbululo
heritage solutions

attendance register

Project Name:	
Client:	
Name of session:	
Venue:	Date: Time:

	Name	Surname	Company/Organisation	Contact Details				Signature
				Cell	Tel	Fax	E-Mail	
1	Andries	Thebe	Eskom Dx	083462359	013 693 7318	0866683144		
2	Marumo	Marumo	//	093 281 1179	013 693 3[illegible]	0866637786		
3	Joseph	Nyomane	//	073 976 1444	013 693 3595			
4	Mkhu	Trust	Hessa	0847278884	-	-		
5	Palesa	Kuaho	Eskom	0726285374	013-693 3146			
6	Kelebogile	Magagale	Hessa	0834785758	011 031 4939	0865442177	kelebogile@mukhang.com	
7								
8								
9								
10								
11								
12								
13								
14								
15								

APPENDIX 6.7: ISSUES AND RESPONSE REPORT INCLUDING DOCUMENTATION PROVIDED

IAP Stakeholder	Forum of communication	Issue	Response or action taken/ to be taken
Mavhungu Shimane, Primary Energy Division	Send back Response form with BID	Requesting to be part IAPs of project	Noted.
Eric Parker of Emalahleni LM	Sent back Response form with BID	His interest is that the proposed power line should not affect the future development areas within Emalahleni area of jurisdiction and should use route that will minimise the	Photographs of project area Photographs of project area
Jan Coetzee of Eskom Generation business	Sent back Response form with BID	Reitvlei 62 IS, portion has been undermined in subsidence	Noted.
Mr Zev Green of Anglo American	Sent back Response form with BID	Requesting for project map	A project map was sent via email as requested.
De Vos Breedt, farm owner	Send back Response form with BID	Requesting for project map Requested to be registered at IAP.	Can you please send map with route of the power line and indicate which farms will be affected.
Patience Nchabeleng of Khutala Colliery	Public meeting	Requested clarity on the project background and motivation	Explanation of the background and motivation was provided.
Cornie Breet	Public Meeting	Requested clarity of the pipeline route. Asked if his farm was not affected.	The route was shown to Mr Breet during meeting, it was identified that his farm was not going to be affected by the proposed power line.
Thea Naude	Public meeting	Recommended the inclusion of Ellen Emerie to be part of the I&AP for the project.	Noted and Ellen Emerie was registered in the IAPs list for the project.

APPENDIX 6.8: ORIGINAL COPIES OF MINUTES TAKEN AT ONE-ON –ONE DISCUSSIONS

Nzumbululo
heritage solutions south africa

Unit 7, 778 Richards Drive, Midrand 1685
PO Box 2202, Halfway House 1685
tel. 011 021 4937 | fax. 086 544 2177
hessa5@telkomsa.net
www.nzumbululo.com

ISSUE/ RESPONSE/COMMENT AND REGISTRATION FORM (INTERESTED & AFFECTED PARTIES) FOR THE PROPOSED CONSTRUCTION OF 132KV POWERLINE IN OGIES MPUMALANGA PROVINCE.

This serves as proof of one on one discussion held with person of details below. This is with regards to the above-mentioned project. Raised concerns and issues are also minuted in this document.

Date: 02 December 2010 Time: 14h30 Venue: P. Duffy's Farm

TITLE (Prof/Mr/Mrs/Ms)	MR'S	**FIRST NAME**	PATRICK + PETER
SURNAME	DUFFY		
CAPACITY (e.g. Secretary/Director/Resident)	RESIDENT / OWNER		
ORGANISATION	PVT		
POSTAL ADDRESS	POSBUS 67702 HIGHVELD	**POSTAL CODE**	0169
TEL. NO.: (012)	4201533	**CELL NO.:**	0832712360
FAX NO: (012)	6654646	**E-MAIL ADDRES:**	pduffy@siasolutions.co.za

MINUTES/COMMENTS/ISSUES/CONCERNS RAISED DURING DISCUSSION ARE MINUTED HERE

By Andries Trebe:
- Same type of pole structure to existing poles
- Between existing P. Duffy's house and the existing powerline
- Minimum 15.5m to other powerline. + 10m

P. Duffy
* - how will affect mining right?

Answer - Because of soil is stable, mining activities will not be disturbed

P. Duffy * Why put new powerline?

Answer - There will be new mine which will need power

P. Duffy * There is a structure which need to be considered

Answer - Yes the structure will need to be considered especially for compensation if there will be a need for it

I hereby agree that the above meeting and discussion was held between myself and Nzumbululo Hertiage Solution.

Signature: _____ **Signature:** _____

Date: 2/12/2010 **Date:** 02 Dec 2010

MINUTES/COMMENTS/ISSUES/CONCERNS RAISED .....continued

P. Duffy: He understand project and is same as previous development of powerline. Impact will be limited.
- Find exactly where powerline will be and assess impacts.

Andries: there are alternative. which were shown on map These will be considered for process but the idea of moving close to P. Duffy's house is not great because it means alot of money will be required for compensation.

P. Duffy: Dont have problem but need to look at real route, and what impact it will bring

We Explained - estimating to get ROD - July 2011. Then design In September 2011 then start construction January 2012.
-The mine will be of same size at Zondagfontein.

P. Duffy - after construction, the access road must be properly fixed.
* Renting a portion of land to farmer and might affect his crop. This will affect the contract or agreement.
* The fence should fix or rebuild it.
* Depending on the final route used, the house and structure might be affected.

-Been on the farm for 37 years.

P. Duffy: request for fax of these notes.

I hereby agree that the above meeting and discussion was held between myself and Nzumbululo Hertiage Solution.

Signature: _____ **Signature:** _____

Date: _____ **Date:** 2 Dec 2010

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Heritage solutions

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Date: 06/12/2010 Time: 14h00 Venue: 45 Main Street, Johannesburg

TITLE (Prof/Mr/Mrs/Ms)	Mrs	**FIRST NAME**	Chantelle
SURNAME	Geerbee		
CAPACITY (e.g. Secretary/Director/Resident)	Corporate Counsil, Anglo Grup Legal		
ORGANISATION	Anglo American		
POSTAL ADDRESS		**POSTAL CODE**	
TEL. NO.: (011)	6383479.	**CELL NO.:**	0852340145
FAX NO: ( )		**E-MAIL ADDRES:**	cgerbee@angloamerican.co.za

MINUTES/COMMENTS/ISSUES/CONCERNS RAISED DURING DISCUSSION ARE MINUTED HERE

- Where do they get existing substation get power currently.
- One needs updated map with existing structure.
- Where is the A.A colliery in relation to proposed area for the powerline.
- Need drawing with DWG (AutoCAD) program.
- Requesting draft scoping report. (Hard copy)
- We will await for comments from the colliery.
- Is Eskom going to reqiste the servitude - Yes

I hereby agree that the above meeting and discussion was held between myself and Nzumbululo Hertiage Solution.

Signature: Geerbee. Signature: Maggy

Date: 06/12/2010 Date: 06/12/2010

MINUTES/COMMENTS/ISSUES/CONCERNS RAISED .....continued

Andries: It is not clear what will be required by AA Colliery. Please for compensation & registering servitude
- Please find out contribution/compensation that Anglo might require
* Are lawyers involved for process.
Eskom will send
Present option to acquire servitude, after finalising the route
But its always better to communicate and confirm with Eskom.
Anglo has professional value if there agreement is not reached between Anglo and Eskom.

I hereby agree that the above meeting and discussion was held between myself and Nzumbululo Hertiage Solution.

Signature: _____

Date: 06/12/2010

Signature: _____

Date: 06/12/2010

Nzumbululo heritage solutions south africa
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SURNAME	DUFFY		
CAPACITY (e.g. Secretary/Director/Resident)	RESIDENT / OWNER		
ORGANISATION	PVT		
POSTAL ADDRESS	POSBUS 67702 HIGHVELD	POSTAL CODE	0169
TEL. NO.: (012)	6201533	CELL NO.:	0832712360
FAX NO: (012)	6654646	E-MAIL ADDRES:	pduffy@siasolutions.co.za

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By Andries Trebe:
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Answer - There will be new mine which will need power
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Answer - Yes the structure will need to be considered especially for compensation if there will be a need for it

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Signature: _____ **Signature:** _____

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MINUTES/COMMENTS/ISSUES/CONCERNS RAISED .....continued

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Signature: _____ Signature: _____

Date: _____ Date: 2 Dec 2010

Nzumbululo heritage solutions

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SURNAME	Geerbeer		
CAPACITY (e.g. Secretary/Director/Resident)	Corporate Counsil, Anglo Group Legal		
ORGANISATION	Anglo American		
POSTAL ADDRESS		**POSTAL CODE**	
TEL. NO.: (011)	6383479	**CELL NO.:**	0832340145
FAX NO: ( )		**E-MAIL ADDRES:**	cgerbee@angloamerican.co.za

MINUTES/COMMENTS/ISSUES/CONCERNS RAISED DURING DISCUSSION ARE MINUTED HERE

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- Requesting draft scoping report. (Hard copy)
- We will await for comments from the colliery.
- Is Eskom going to register the servitude - Yes

I hereby agree that the above meeting and discussion was held between myself and Nzumbululo Hertiage Solution.

Signature: Geerbeer. Signature: Maggy

Date: 06/12/2010 Date: 06/12/2010

MINUTES/COMMENTS/ISSUES/CONCERNS RAISED .....continued

Andries: It is not clear what will be required by AA Colliery. Please for compensation & registering servitude
- Please find out contribution/compensation that Anglo might require
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Eskom will send option to acquire servitude, after finalising the route
But its always better to communicate and confirm with Eskom.
Anglo has professional value if there agreement is not reached between Anglo and Eskom.

I hereby agree that the above meeting and discussion was held between myself and Nzumbululo Hertiage Solution.

Signature: _____

Date: 06/12/2010.

Signature: _____

Date: 06/12/2010

APPENDIX 6.9 LETTERS RECEIVED FROM IAPS

Our Ref: ZG/Inyosi/Zondags/15/5
Your Ref: Hellen Mlotshwa

Mining Law and Property Department

Zev Green
Associate

Direct Fax +27 (0) 11 638 4608
Direct Line +27 (0) 11 638 3388
e-mail: zgreen@angloamerican.co.za

Nzumbululo Heritage Solutions
Private Bag X9307
POLOKWANE
0700

26 May 2010

Dear Sir

EIA FOR THE PROPOSED CONSTRUCTION OF ESKOM 132 KV POWERLINE FROM KRUINSPUNT TO SMITHFIELD AND ZONDAGSFONTEIN TO SMITHFIELD

We acknowledge receipt of your letter of 12 May 2010 but are having a little difficulty in fixing the position of the powerline as the co-ordinates supplied do not always correspond with the farm names.

We would be obliged if you could send us a plan for scrutiny.

Yours faithfully

Z GREEN

ZG/FB/L83

c.c. H R Nieuwoudt Room 148, 1st Floor, 45 Main

ANGLO AMERICAN

PLEASE QUOTE OUR REFERENCE ON ALL CORRESPONDENCE

Our Ref: ZG/Inyosi/Zondags/15/5
Your Ref: Hellen Mlotshwa

Anglo American Group Legal South Africa

Zev Green
Associate
Mining and Property Law
Direct Fax +27 (0) 11 638 4608
Direct Line +27 (0) 11 638 3388
e-mail: zgreen@angloamerican.co.za

Nzumbululo Heritage Solutions
Private Bag X9307
POLOKWANE
0700

5 July 2010

Dear Sir

EIA FOR THE PROPOSED CONSTRUCTION OF ESKOM 132 KV POWERLINE FROM KRUINSPUNT TO SMITHFIELD AND ZONDAGSFONTEIN TO SMITHFIELD

We refer to our letter of 26 May 2010 and would be obliged to receive a plan.

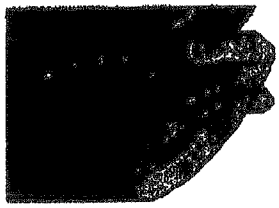
Yours faithfully

Z GREEN

ZG/FB/L99

c.c. H R Nieuwoudt Room 148, 1st Floor, 45 Main

Received 12/05/2010



Nzumbululo heritage solutions

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+27(0) 15 297 8869
heleen5@telkomsa.net

ISSUE/ RESPONSE/COMMENT AND REGISTRATION FORM (INTERESTED & AFFECTED PARTIES) FOR THE PROPOSED CONSTRUCTION OF 132KV POWERLINE IN WITBANK, MPUMALANGA PROVINCE.

Please complete this form and return it to Nzumbululo Heritage Solutions to the address above.

Attention Hellen Mlotshwa

TITLE (Prof/Mr/Mrs/Ms)	Mr	**FIRST NAME**	dc Jos
SURNAME	Breet.		
CAPACITY (e.g. Secretary/Director/Resident)	Farm owner.		
ORGANISATION	Self.		
POSTAL ADDRESS	PO Box. 63 Rosetta.	**POSTAL CODE**	3301.
TEL. NO.: ( )	0332666817	**CELL NO.:**	0824901542
FAX NO: ( )	0866760566	**E-MAIL ADDRES:**	whiterocks@bunduet.com

PLEASE LIST ANY COMMENTS/ISSUES/CONCERNS THAT YOU MAY HAVE IN REGARDS TO THIS PROJECT. (Please use separate sheet, if required)

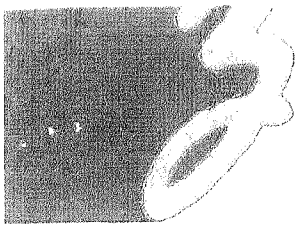
Can you please send me a map with the route of the proposed power line and wich farm are going to be affected.

Thanks

Gdc Breet

Farm owner Smithfield and Colagné

Emailed 2nd electronic
responded 12/08/2010



N umbululo

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+27(0) 15 297 8059
hessa5@telkomsa.net

ISSUE/ RESPONSE/COMMENT AND REGISTRATION FORM (INTERESTED & AFFECTED PARTIES) FOR THE PROPOSED CONSTRUCTION OF 132KV POWERLINE IN WITBANK, MPUMALANGA PROVINCE.

Please complete this form and return it to Nzumbululo Heritage Solutions to the address above.

Attention Hellen Mlotshwa

TITLE (Prof/Mr/Mrs/Ms)	Mr	FIRST NAME	JAN
SURNAME	COETZEE		
CAPACITY (e.g. Secretary/Director/Resident)	Land Management - Generation Properties		
ORGANISATION	Eskom Generation Business		
POSTAL ADDRESS	P.O. Box 1091 Johannesburg	POSTAL CODE	2000
TEL. NO.: ( )	011 8004591	CELL NO.:	082 653 0763
FAX NO: ( )	086 662 8343	E-MAIL ADDRES:	jan.coetzee@eskom.co.za

PLEASE LIST ANY COMMENTS/ISSUES/CONCERNS THAT YOU MAY HAVE IN REGARDS TO THIS PROJECT. (Please use separate sheet, if required)

Richtlek 62 IS portions have been
undetermined - Absolutely

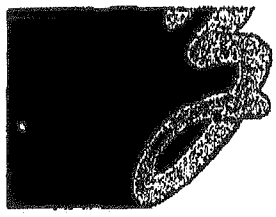
recorded IAP as electronic

(2)

APPENDIX 6.10 LIST OF REGISTERED IAPs

INGWE KHUTALA I&APs

Company Name	Contact Person	Designation	Tel. No.	Fax No.	Cell No.	Postal/Residential Address	E-mail Address
Eskom	Palesa Kuaho						Palesa.Kuaho@eskom.co.za
Texture Environmental Consul	Ria Pretorius		012 362 7179	086 675 4026	082 5686 344	PO Box 36593, Menlo Park, Pretoria, 0102	riap@peopletexture.net
AFFECTED PARTIES							
Directly Affected Land owners							
Anglo Operations Ltd		Director				PO Box 61587, Johannesburg, 2107	
Anglo Operations Ltd	Z Green		011 638 3388	011 638 4608		PO Box 61587, Johannesburg, 2107 or 45 M	zgreen@angloamerican.co.za
Eskom Geeneration Business	Mr Coetzee J	land Management	011 800 4591	086 662 8343	082 653 0763	PO Box 1091, Johannesburg, 2000	john.coetzee@eskom.co.za
	Mr de Vos Breet	Farm owner	033 266 6817	086 676 0566	082 490 1542	PO Box 63, Rosetta, 3301	whiterocks@bundunet.com
Eskom	Thea Naude		013 693 3442	086 656 0074		PO Box 223, Witbank, 1035	naudet@eskom.co.za
Eskom	Marumo Marumo		013 693 3735	086 663 7756		PO Box 223, Witbank, 1035	marumos@eskom.co.za
Eskom	Andries Thebe			086 668 3144		PO Box 223, Witbank, 1035	thebema@eskom.co.za
Eskom	Joseph Ngomane		013 693 3598			PO Box 223, Witbank, 1035	ngomanlj@eskom.co.za
Farmers:							
Goedgevonden Farms	Mr De Vos Breedt		(013) 643 150	(013) 643 3809	082 490 1542	PO Box 303, Ogies. 2230	
Smithfield Farms	Mrs Prinsloo		(013) 643 2204			PO Box 13, Ogies. 2230	
	Mrs Prinsloo		(013) 643 2103			PO Box 152, Ogies. 2230	
	Mr Smith E		(013) 643 214	(013) 643 2421	082 824 2438	PO Box 113, Ogies. 2230	
Bombardie Boerdery	Mr Sullwald W		(013) 643 250	(013) 643 2000	082 331 0823	PO Box 187, Ogies. 2230	
Smithfield Farms	Mr Swartz T		(013) 643 1807		082 439 7594	PO Box 8, Ogies. 2230	
	Mr Van Der Merwe RS				083 229 3914	PO Box 152, Ogies. 2230	
	Mr Wentzel		(013) 643 2594		082 692 1559	PO Box 234, Ogies. 2230	
	Mrs Robberts DJ					PO Box 596, Ogies. 2230	
	Cornie Breet	Farm owner			082 455 8221	PO Box 303, Ogies. 2230	rodavos@telkomsa.net
Almatera Landgoed (Pty) Ltd							
AlmabenSmit Landgoed (Pty) Ltd							
GOVERNMENT AUTHORITES							
Regulatory Authorities							
Department of Minerals and E	Mr Msiza D	Principal Inspector	(013) 656 144	(013) 690 2390		Private Bag X 7279, Witbank. 1035	witmsi@mewit.mpu.gov.za
Department of Minerals and E	Martha Makonyane	Environmental Offi	(013) 656 144	(013) 690 3288		Private Bag X 7279, Witbank. 1035	martha.mokonyane@dme.gov.z
Department of Water Affairs a	Mr Reddy Minolin	DWAF (Deputy Dir	(013) 932 206	(013) 932 2071	082 806 9208	Privae Bag X 10580, Bronkhorstspruit. 1020	reddym@dwaf.gov.za
Department of Water Affairs a	Ms Thapelo Mashaba	Water Quality Man	(013) 932 206	(013) 932 2071		Private Bag X 10580, Bronkhorstspruit. 102	Mashabat@dwaf.gov.za
Department of Agriculture Con	Mr Mahlangu S		(013) 690 127	(013) 656 5469	082 884 1858	Private Bag X 7255, Witbank. 1035 OR Piet Koornhof Building, Cnr Kruger ar	
Mdala Mpumalanga Dep. Of A	Siphiwe Mahlangu	Assistant Director	(013) 690 126	(013) 656 5469	082 923 2934	Private Bag X 7255, Witbank. 1035 OR Piet Koornhof Building, Cnr Kruger ar	
Department of Land Affairs	Charity Mthimunye	Environmental Offi	(013) 690 121	(013) 656 5469	083 255 4101	Private Bag X 7255, Witbank. 1935	cnmthimunye@wit.mpu.gov.za
Politicians/Government Representatives							
Ogies Local Town Council	Mr Malinga MT		(013) 643 115	(013) 643 2039	083 538 6232	PO Box 148, Ogies. 2230	
Emalahleni Municipality	Eric Parker	Townplanner-Minn	013 690 6720	086 622 1744	083 449 4623	PO Box 3, Witbank. 1035	eparker@emalahleni.co.za
Emalahleni Municipality	Lindiwe Olga Mudau	Ward Councillor	(013) 690 6207			mudaulo@emalahleni.co.za	
	Ms Jennifer Louw					PO Box 3, Witbank. 1035	
Witbank Library						Private Bag X7206, Witbank, 1035	
INTERESTED PARTIES							
Business and Commerce							
Khuthala Colliery	Patience Nchabeleng		013 648 5008	013 641 1423		PO Box 220, Ogies, 2230	patience.nchabeleng@bhpbillito



Nzumbululo

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Suite 348, PostNet, Private Bag X9307, Polokwane
+27(0) 15 297 5056
hsmsa@telkomsa.net

ISSUE/ RESPONSE/COMMENT AND REGISTRATION FORM (INTERESTED & AFFECTED PARTIES) FOR THE PROPOSED CONSTRUCTION OF 132KV POWERLINE IN WITBANK, MPUMALANGA PROVINCE.

Please complete this form and return it to Nzumbululo Heritage Solutions to the address above.

Attention Hellen Mlotshwa

TITLE (Prof/Mr/Mrs/Ms)	Mr	FIRST NAME	Eric
SURNAME	Parker		
CAPACITY (e.g. Secretary/Director/Resident)	Head Spatial Planning		
ORGANISATION	Emalahleni Municipality		
POSTAL ADDRESS	P.O.Box 3 Witbank ~~2035~~	POSTAL CODE	1035.
TEL NO.: (013)	6906720	CELL NO.:	083 449 4623
FAX NO: ( )	0866221744	E-MAIL ADDRES:	parkereg@emalahleni.gov.za

PLEASE LIST ANY COMMENTS/ISSUES/CONCERNS THAT YOU MAY HAVE IN REGARDS TO THIS PROJECT. (Please use separate sheet, if required)

My interest is that the powerline should not impact future development areas within Emalahleni area of jurisdiction and should use routes which minimise sterilization of land. Aesthetic impacts should also be minimised such as placing lines across hills and ridges.

A map should be provided showing the proposed line as well as showing other topographical features as well as other powerlines in the area.

(4)