



**dedect**

Department:  
Economic Development, Environment, Conservation and Tourism  
North West Provincial Government  
REPUBLIC OF SOUTH AFRICA



AgriCentre Building  
Cnr. Dr. James Moroka &  
Stadium Rd  
Private Bag X2039  
MMABATHO 2735  
[www.nwpg.gov.za](http://www.nwpg.gov.za)

**CHIEF DIRECTORATE: ENVIRONMENTAL SERVICES**  
**DIRECTORATE: ENVIRONMENTAL QUALITY MANAGEMENT**

Enquiries: Ouma Skosana  
Tel: +27 (18) 389 5156  
Email: [oskosana@nwpg.gov.za](mailto:oskosana@nwpg.gov.za)  
Fax: +27(18) 384 0104

**DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST**

(For official use only)

File Reference Number:  
NEAS Reference Number:  
Date Received:


Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014

**PROJECT TITLE**

**PROPOSED DEVELOPMENT OF THE 40MWp BUFFELSPOORT SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE NEAR MOOINOOI, NORTH-WEST PRORINCE**

**1. Details of Specialist**

Type of Specialist:

Company Name:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s) (if any)

ECOLOGIST		
THE BIODIVERSITY COMPANY		
ANDREW HUSTED		
777 PERIDOT STREET, JANSKEI PARK		
2158	Cell:	081319 1225
	Fax:	
info@thebiodiversitycompany.com		
SAENASP (E SCINAT 400215/11		

Project Consultant:

Contact person:

Postal address:

Postal code:

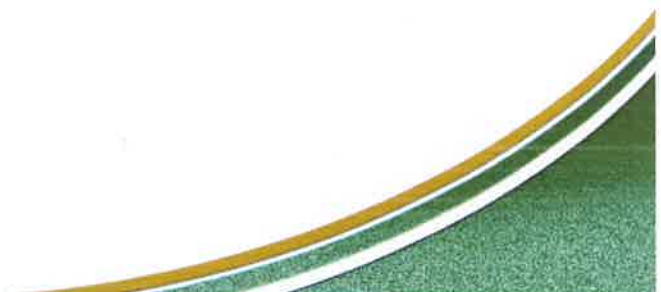
Telephone:

E-mail:

	Cell:	
	Fax:	



Together we move North West forward.



2. Expertise of the Specialist including Curriculum vitae (Appendix 6 (1)(a)(ii) of EIA Regulations, 2014)

## Andrew Husted

M.Sc Aquatic Health (*Pr Sci Nat*)

Cell: +27 81 319 1225

Email: andrew@thebiodiversitycompany.com

Identity Number: 7904195054081

Date of birth: 19 April 1979



### Profile Summary

Working experience throughout South Africa, West and Central Africa and also Armenia & Serbia.

Specialist experience in exploration, mining, engineering, hydropower, private sector and renewable energy.

Experience with project management for national and international multi-disciplinary projects.

Specialist guidance, support and facilitation for the compliance with legislative processes, for in-country requirements, and international tenders.

Specialist expertise include Instream Flow and Ecological Water Requirements, Freshwater Ecology, Terrestrial Ecology and also Ecosystem Services.

### Areas of Interest

Sustainability and Conservation.

Instream Flow and Ecological Water Requirements.

Publication of scientific journals and articles.

### Key Experience

- Familiar with World Bank, Equator Principles and the International Finance Corporation requirements
- Environmental, Social and Health Impact Assessments (ESHIA)
- Environmental Management Programmes (EMP)
- Ecological Water Requirement determination experience
- Wetland delineations and ecological assessments
- Rehabilitation Plans and Monitoring
- Fish population structure assessments
- The use of macroinvertebrates to determine water quality
- Aquatic Ecological Assessments
- Aquaculture

### Country Experience

Botswana, Cameroon  
Democratic Republic of Congo  
Ghana, Ivory Coast, Lesotho  
Liberia, Mali, Mozambique  
Nigeria, Republic of Armenia,  
Senegal, Serbia, Sierra Leone, South Africa  
Tanzania

### Nationality

South African

### Languages

English – Proficient

Afrikaans – Conversational

German - Basic

### Qualifications

- MSc (University of Johannesburg) – Aquatic Health.
- BSc Honours (Rand Afrikaans University) – Aquatic Health
- BSc Natural Science
- Pr Sci Nat (400213/11)
- Certificate of Competence: Mondl Wetland Assessments
- Certificate of Competence: Wetland WET-Management
- SASS 5 (Expired) – Department of Water Affairs and Forestry for the River Health Programme
- EcoStatus application for rivers and streams



3. Declaration by Specialist

I, Andrew Huston ( Name of Specialist) of The Bioiversity Company (name of company) declare that;

- I act as an independent specialist in this application.
- I will 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.
- there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant/ Environmental Assessment Practitioner appointed by applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- **all the particulars furnished by me in this form are true and correct; and**
- **I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of Section 48B(2) of the Act.**

[Signature]  
Signature of the specialist

The Bioiversity Company  
Name of company (if applicable)

06/06/2022  
Date

[Signature]  
Signature of the Commissioner of Oaths

Date

Minister Of Religion  
Designation

Certified as a true copy of original

Official stamp:  
Farai Shadreck Mbirimi **BD52805**  
Minister of Religion / Commissioner of Oaths  
391 11th Road, Erand, Midrand 1685

Date 06/06/2022





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**1. Details of Specialist**

Type of Specialist:

Company Name:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s) (if any)

Avifauna Specialist		
The Biodiversity Company		
Dr. Lindi Steyn		
777 Peridot Street Sukstei Park		
2158	Cell:	0721293759
0721293759	Fax:	
lindi@thebiodiversitycompany.com		
SACNASP Pr. SA 119992		

Project Consultant:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

SAME AS ABOVE		
	Cell:	
	Fax:	





2. Expertise of the Specialist including Curriculum vitae (Appendix 6 (1)(a)(ii) of EIA Regulations, 2014)

# Lindi Steyn

PhD Biodiversity and Conservation  
(Pr Sci Nat)



Cell: +27 72 129 3759

Email: [Lindi@thebiodiversitycompany.com](mailto:Lindi@thebiodiversitycompany.com)

Identity Number: 8805250059080

Date of birth: 25 May 1988

### Profile Summary

Working experience throughout South Africa and neighbouring countries.

Specialist experience with mining, road development, engineering, renewable energy, protected areas, and biodiversity offsets.

Specialist guidance, support and facilitation for the compliance with legislative processes, for in-country requirements.

Specialist expertise include Avifauna and Terrestrial Ecology.

### Areas of Interest

**Mining, Oil & Gas, Renewable Energy & Bulk Services**  
Infrastructure Development, Sustainability and Conservation.

Research publication with a conservation influence.

Ornithology

### SELECTED PROJECT EXPERIENCE

**Project Name: Perdekraal West Wind Facility- Management Plans**

Client: Savannah

Personal position / role on project: Author

Location: Western Cape

Main project features: Compile an Erosion Plan, a Plant Rescue Plan, Invasive Alien Species Plan and a Rehabilitation Plan for the Perdekraal Wind Facility

**Project Name: Red Sands Photovoltaic Facility - Avifauna Impact Assessment**

Client: Savannah

Personal position / role on project: Avifauna Specialist

Location: Groblershoop, Northern Cape

### Key Experience

- Environmental Impact Assessment
- Terrestrial Ecological Assessments
- Rehabilitation Plans and Monitoring
- Avifaunal Conservation Surveys
- Conservation Management Plans
- Laboratory analysis
- The use of avifaunal species as indicators of pollution.

### Countries worked in

South Africa  
Swaziland  
Zimbabwe  
Lesotho

### Nationality

South African

### Languages

English – Proficient  
Afrikaans – Proficient

### Qualifications

- PhD Biodiversity and Conservation, University of Johannesburg, South Africa.
- MSc Biodiversity and Conservation, University of Johannesburg, South Africa.
- BSc Hons Biodiversity and Conservation.
- BSc Botany and Zoology.
- Certificate in Field Guiding, Damelin.
- Certificate in Ecotraining.
- Field Guiding FGASA level 1 certificate (2007).

3. Declaration by Specialist

I, Lindi Steyn (Name of Specialist) of The Biodiversity Company (name of company) declare that;

- I act as an independent specialist in this application.
- I will 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.
- there are no circumstances that may compromise my objectivity in performing such work;
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- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant/ Environmental Assessment Practitioner appointed by applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- **all the particulars furnished by me in this form are true and correct; and**
- **I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of Section 48B(2) of the Act.**

*[Handwritten signature]*

Signature of the specialist

The Biodiversity Company  
Name of company (if applicable)

06/06/2022  
Date

*[Handwritten signature]*

Signature of the Commissioner of Oaths

Date

Minister of Religion  
Designation

Certified as a true copy of original

Official stamp:

*Farai Shadreck Mbirimi* **BD52805**  
*Minister of Religion / Commissioner of Oaths*  
 391 11th Road, Erand, Midrand 1685

Details and Expertise of Specialist and Declaration of Interest  
EIA Regulations, 2014

Date 06/06/2022





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**1. Details of Specialist**

Type of Specialist:	Archaeologist		
Company Name:	PGS Heritage (PTY) LTD		
Contact person:	Michelle Sachse		
Postal address:	PGS Heritage, 906 Bergarend st, Waverley, Pretoria		
Postal code:	0186	Cell:	0848072931
Telephone:	012 332 5305	Fax:	
E-mail:	michelle@pgsheritage.co.za		
Professional affiliation(s) (if any)	ASAPA (Association of Southern African Professional Archaeologists)		

Project Consultant:			
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			



2. Expertise of the Specialist including Curriculum vitae (Appendix 6 (1)(a)(ii) of EIA Regulations, 2014)

**PROFESSIONAL CURRICULUM FOR MICHELLE SACHSE**

**Archaeologist for PGS Heritage**

**Summary of Experience**

Involvement in various grave relocation projects in the various provinces of South Africa.

Expertise in Heritage Impact Assessment Surveys, Historical and Archival Research, Archaeology, Fieldwork including *inter alia* -

Involvement with various Heritage Impact Assessments,

- Grave exhumation, test excavations and grave “rescue” excavations in the various provinces of South Africa.
- Permit applications with SAHRA BGG, including relevant Municipalities and Authorities for grave relocation projects.
- Heritage Impact Assessments within Gauteng, Limpopo, Mpumalanga, Free State, North-West and the Northern and Western Cape Province.
- Archaeological Walkdowns for various projects.
- Desktop, archival and heritage screening for projects.
- Instrument Survey and recording for various projects.

**Information Technology Experience:**

- MS Office – Word, Excel, and PowerPoint
- Inkscape
- Google Earth
- QGIS
- ArcGIS Collector and Survey123

**Heritage Impact Assessments:**

- Proposed new pit for Msobo Coal (Spitzkop Colliery), in Ermelo, within the Mpumalanga Province. **Position:** Heritage Specialist.
- The proposed Harmony FSS6 Reclamation Pipeline, Welkom, Free State Province. **Position:** Heritage Specialist.
- Heritage impact assessment report, for the proposed Kalgold Expansion Project between Mafikeng and Vryburg, the North West Province. **Position:** Heritage Specialist.
- Heritage impact assessment report, for the proposed Chartwell Data Centre project in



Chartwell, Johannesburg, Gauteng province. **Position:** Heritage Specialist.

- Proposed Development on Portions of the Farm Rondebult 303 JS, Near Kwa-Guqa, Emalaheni Local Municipality, Nkangala District Municipality, Mpumalanga Province. **Position:** Heritage Specialist.
- The 40MW Buffelspoort Solar Photovoltaic (PV) Energy Facility, on Portions 75 and 91 of the Farm Buffelspoort 343 JQ, between Buffelspoort and Mooinooi, in the North West Province. **Position:** Heritage Specialist.
- Proposed Development on Portion 7 of the Farm Langkuil 363 IR, in Meyerton, within the Midvaal Local Municipality, and the Sedibeng District Municipality, in the Gauteng Province. **Position:** Heritage Specialist.

#### **Grave Relocation Projects:**

- Report on the relocation of graves: Relocation of 22 graves at Nkomati Anthracite Mine on the farm Fig Tree 503 JU, near Madadeni, Mpumalanga Province.
- Report on the relocation of graves: Relocation of 27 graves located on the farm Welstand 55 IS, near Kriel, Mpumalanga Province.
- Report on the relocation of graves: Relocation of 6 graves located on the farm Klipfontein 241 IS, near Breyten, Mpumalanga province.
- Report on the Relocation of Graves. Relocation of 68 Graves Located at Erf 4460, 4461 and 4463, Kudube Unit 4, in Hammanskraal, Gauteng Province.

#### **Key Qualifications**

2016 - 2019	MA in Archaeology University of Pretoria, Pretoria
2015	BA Honours in Archaeology University of Pretoria, South Africa
2012 - 2014	BA (General) University of Pretoria, South Africa Major subjects: Archaeology and History

#### **Professional Qualifications**

Professional Archaeologist - Association of Southern African Professional Archaeologists -  
Professional Member – No 526

### Key Work Experience

- 2020 – to date: Archaeologist at PGS Heritage
- 2018 – 2019: Assistant Manager at the Archaeology Laboratory on South Campus at the University of Pretoria
- 2014 Intern at the Ditsong National Museum of Cultural History

3. Declaration by Specialist

I, Michelle Sachse (Name of Specialist) of PGS Heritage (PTY) LTD (name of company) declare that;

- I act as an independent specialist in this application.
- I will 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.
- there are no circumstances that may compromise my objectivity in performing such work;
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- I undertake to disclose to the applicant/ Environmental Assessment Practitioner appointed by applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- **all the particulars furnished by me in this form are true and correct; and**
- **I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of Section 48B(2) of the Act.**

*M Sachse*

Signature of the specialist

PGS Heritage (PTY) LTD

Name of company (if applicable)

6 June 2022

Date

*7216760-2  
M Sweli  
M Sweli  
CST*

Signature of the Commissioner of Oaths

*7077-06-06*

Date

*Constable*

Designation

Official stamp:



Details and Expertise of Specialist and Declaration of Interest  
EIA Regulations, 2014



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**1. Details of Specialist**

Type of Specialist:	Visual Impact Assessment		
Company Name:	t/a LOGIS		
Contact person:	Lourens du Plessis		
Postal address:	PO Box 384, La Montagne, Pretoria		
Postal code:	0184	Cell:	0829229019
Telephone:		Fax:	
E-mail:	Lourens@logis.co.za		
Professional affiliation(s) (if any)	Professional Geo-Information Science Practitioner: GPr GISc 0147 (SA Geomatics Council)		

Project Consultant:	As above		
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			



Together we move North West forward.





## 2. Expertise of the Specialist including Curriculum vitae (Appendix 6 (1)(a)(ii) of EIA Regulations, 2014)

Lourens provides professional **Geographical Information Systems (GIS)** services to a wide range of clients that require the processing, analysis and presentation of geospatial data. His overarching function is the application of GIS in environmental management and planning, impact assessments and spatial modelling, but his services often extend to a much broader range of business sectors. These include the application of GIS in:

- Agriculture
- Bulk service providers and utilities
- The renewable energy sector
- Electricity generation and distribution
- Mining and exploration
- Urban and rural development planning
- Conservation and tourism
- Strategic integrated planning
- Environmental education and social awareness
- Engineering, transport and infrastructure development

He is an accomplished **Visual Impact Assessment (VIA)** specialist who has successfully undertaken over a 130 visual impact assessments for a wide variety of developments, ranging from mining, renewable energy facilities, power lines to roads and lodges.

Lourens has a multi-disciplinary approach to projects and therefore specialises in creating synergy between planning professionals and project specialists (regardless of the type of project) in order to provide uniform, quality spatial data products, solutions and services.

### Experience and Expertise

- Data sourcing, acquisition, capture and processing
- Data evaluation, conversion and transfer
- Geodatabase development/implementation/maintenance
- System design and development
- Spatial analysis/modelling (visibility, slope, aspect, etc.)
- Digital terrain modeling
- Terrain evaluation and site screening
- Image processing and analysis
- Impact assessment and impact management
- Environmental management
- Project management and report writing
- Map production, display, queries and reporting
- Environmental sciences expertise
- Process development
- Visual impact assessment
- GPS fieldwork, aerial surveys and drone data processing

**3. Declaration by Specialist**

I, Lourens du Plessis (Name of Specialist) t/a LOGIS (name of company) declare that;

- I act as an independent specialist in this application.
- I will 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.
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- **all the particulars furnished by me in this form are true and correct; and**
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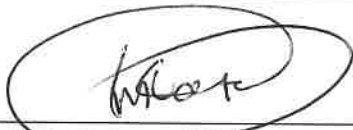
Signature of the specialist

t/a LOGIS

Name of company (if applicable)

2022-6-7

Date



SERG  
7167040-8  
M.R. KOTI

Signature of the Commissioner of Oaths

2022 10 10 07

Date

Sergeant

Designation

Official stamp:



Details and Expertise of Specialist and Declaration of Interest  
EIA Regulations, 2014



### Personal Information:

- Date of Birth: 1969-11-13
- Marital Status: Married
- Nationality: South African
- Contact no: 082 922 9019
- Email: lourens@logis.co.za
- Web: logis.co.za

### Years of Industry Experience

- 31 years'

### Countries of Experience

- South Africa; Lesotho; Swaziland; Mozambique; Botswana; Zimbabwe; Namibia; Angola; Guinea; Ghana; Uganda; Madagascar

### Qualifications and Memberships

- BA (University of Pretoria) Geography and Anthropology (Majors), 1993
- Professional Geo-Information Sciences (GISc) Practitioner registered with the South African Geomatics Council (SAGC). Membership no. PGP0147
- Member: Geo-Information Society of South Africa (GISSA)

### Key Skills and Competencies

- Arc/Info and ArcGIS
- Arcview
- QGIS
- Postflight Terra 3D
- PlanetGIS
- Vistapro
- Various GIS support applications
- Microsoft (Word/Excel/Access)

### Professional Overview

Lourens provides professional **Geographical Information Systems (GIS)** services to a wide range of clients that require the processing, analysis and presentation of geospatial data. His overarching function is the application of GIS in environmental management and planning, impact assessments and spatial modelling, but his services often extend to a much broader range of business sectors. These include the application of GIS in:

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- The renewable energy sector
- Electricity generation and distribution
- Mining and exploration
- Urban and rural development planning
- Conservation and tourism
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- Data capture and processing
- Data evaluation, conversion and transfer
- Geodatabase development/implementation/maintenance
- System design and development
- Spatial analysis/modelling (visibility, slope, aspect, etc.)
- Digital terrain modeling
- Terrain evaluation and site screening
- Image processing and analysis
- Impact assessment and impact management
- Environmental management
- GIS-based decision support systems development
- Project management and report writing
- Map production, display, queries and reporting
- Environmental sciences expertise
- Process development
- Visual impact assessment
- GPS fieldwork and aerial surveys
- Drone data processing

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## Project Experience

**Miscellaneous projects** (*A brief description of some prominent and relevant projects*)

GIS mapping and database for Black Eagle habitats and flight patterns in the Karoo National Park

Environmental planning and development control schemes for the Drakensberg Babangibone, Cathkin Peak and Garden Castle development nodes

Goukou River (Stilbaai) Environmental Structure Plan

Conservation and open space proposals for the Umhlanga Forest

Grootvlei mine water pumping operation (Blesbokspruit sub-catchment)

GIS services for the Saldanha steel plant

ENPAT Provincial (1:250,000 scale GIS decision support systems) based on an inventory of environmental and socio-economic geographical data

- ENPAT Northern Province (Limpopo Province)
- ENPAT Mpumalanga
- ENPAT North-West

ENPAT Metropolitan (1:50,000 scale GIS decision support systems) containing environmental and socio-economic geographical data that were evaluated for conservation opportunities, development constraints and agricultural constraints

- ENPAT Gauteng
- ENPAT Cape Town
- ENPAT Durban Functional Region (DFR)
- ENPAT Bloemfontein/Botshabello
- ENPAT Port Elizabeth

ENPAT National (1:1,000,000 scale GIS decision support system) and ENPAT publication

Environmental Management Frameworks (EMF). Frameworks of spatially represented information connected to environmental management parameters designed to aid in the pro-active identification of potential conflict between development proposals and critical and/or sensitive environments

- EMF Northern Province (Limpopo Province)
- EMF Mpumalanga
- EMF North-West

Spatial Development Initiatives (SDI). The fast tracking of the EMF concept for priority SDI's

- Lubombo Corridor SDI
- Coega Industrial Development Zone (IDZ)
- Wild Coast SDI
- West Coast Investment Initiative

Sigma colliery: North-West strip operation

Development masterplan for the Tswaing Crater Museum



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Conservation plan for the Rietvlei Nature Reserve

GIS services for the planning and management of the Chobe National Park (Botswana)

GIS services for an environmental overview of South Africa

Demarcation/delineation of regions in South Africa

Orange-Vaal (ORVAAL) transfer scheme - Caledon cascades scheme

ENPAT Provincial (1:250,000 scale GIS decision support systems) based on an inventory of environmental and socio-economic geographical data

- ENPAT Eastern Cape
- ENPAT Free State
- ENPAT Kwa-Zulu Natal

Environmental Management Frameworks (EMF). Frameworks of spatially represented information connected to environmental management parameters designed to aid in the pro-active identification of potential conflict between development proposals and critical and/or sensitive environments

- EMF Eastern Cape
- EMF Free State
- EMF Kwa-Zulu Natal

Hennops River EMF (environmental inventory and management proposals in Centurion)

The Important Bird Areas (IBA) of South Africa map and database

Centurion Metropolitan Substructure Environmental Management Framework (EMF)

Alexandra renewal project EMF

Carbon Sinks and Sequestration - Eastern Cape Wild Coast. Information maps for the "Carbon Sinks - A Rehabilitation Option for South Africa's Natural Environment" report

Prince Edward and Marion Islands. Maps for the World Heritage Site (WHS) bid document

Theewaterskloof and Genadendal - Integrated spatial data management system

Gauteng Communication Network Strategy (GAUCONS). Environmental zones for the control of the construction of telecommunication structures

Gauteng Industries Buffer Zones. The mapping of industrial and mining activities, the creation of buffer control zones and the development of a GIS-based decision support system for the Gauteng Province

Limpopo National Park (LNP) Mozambique. Base maps for fieldwork and planning

Schmidtsdrift Environmental Management Program Report (EMPR)

Loch Vaal Environmental Management Framework (EMF)

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Rustenburg - Strategic Environmental Assessment (SEA). The creation of environmental control zones, a GIS-based decision support system and information poster

Faerie Glen Nature Reserve Strategic Environmental Assessment (SEA)

Willow Quarries - Environmental Impact Assessment (EIA). Modeling of mining expansion plan and the potential impact on Golden Mole habitats

Ekurhuleni Metropolitan Municipality (EMM) Environmental Management Framework (EMF)

Limpopo - State of the Environment Report (SoER)

Windhoek (Namibia) - Environmental Structure Plan (ESP)

Gauteng Supplementation and Implementation of EIA Regulations Project (EIA SIP)

Siyanda District Municipality Environmental Management Framework (EMF)

Olifants and Letaba River Catchments Environmental Management Framework (EMF)

Barberton Nature Reserve environmental sensitivity mapping and land use zoning plan

Kapama Private Game Reserve map

Gauteng EMF and landscape character assessment

Majuba CCGT environmental screening

MTPA Nature Reserves (Manyeleti, Mthethomusha, Mkombo, Mdala, Mabusa and Loskop) Integrated Management Planning (IMP)

Ugu District Municipality EMF and landscape character assessment

Greater Lakenvlei Protected Environment resource mapping

North West (Coetzersdam, Pomfret, Buxton, Taung Station, Pudimoe, Lotlhakane Village and Delareyville) environmental sensitivity mapping for PV facilities

Bayside Aluminium Smelter Water Use License Application

CESVI (African Ivory Route) resource mapping for Nthubu, Blouberg, Mutale Falls, Funduze, Modjadji, Baleni, Mtomeni, Mafefe and Manyeleti Camps

Master Plan for Kaloum and Loose Islands, Conakry, Guinea

Ekurhuleni Open Space mapping

Kumba Heuningkranz and Kolomela mines concept study

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Joburg Property Company land strategy – inner city transformation roadmap

Bioregional Plan for the Mopani District

N2 Corridor Strategic Corridor Development Plan and landscape character assessment

Polokwane outfall sewer route and waste water treatment works

Ghana Northern Regions environmental overview

Rand Water disaster risk assessment

Redstone Solar Thermal Power Plant environmental sensitivity mapping

Landscape/Land use character maps for Ladysmith and Estcourt, Durban and Pietermaritzburg, Newcastle and Dundee

Oil and Gas Industrial Park, Hoima District, Uganda

Waterberg District EMF

Boegoebaai Port Development environmental screening

Lonmin Marikana Mining Operations environmental overview

Moses Kotane Local Municipality Integrated Environmental Management Plan

Vhembe District Bioregional Plan

Capricorn District Bioregional Plan

Sekhukhune District Bioregional Plan

Tourist maps for 12 provincial nature reserves in Limpopo

Afgri Grain Management spatial database

Eskom land cover and Isopleths (SO<sub>2</sub>)

Gamma-Kappa transmission line corridors GIS and mapping

Nseleni Independent Floating Power Plant GIS and mapping

### **Regional Strategic Environmental Assessments (Regional Assessments)**

Regional assessment for the Eskom Wind Energy Facility (Sere) in the Western Cape

Regional assessments for the Eskom Wind Integration Project (WIP)

- Area 1: West Coast (Saldanha to Garies)
- Area 2: Overberg Region

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- Area 3: Beaufort West region
  - Area 4: Eastern Cape (Tsitsikamma to Port Elizabeth)
  - Area 5: Northern Cape (Hondeklipbaai to Port Nolloth)

Sandveld Wind Energy Regional Assessment

West Coast National Park (Saldanha area) Regional Assessment

Regional Assessment for the Theewaterskloof Municipal area

Brand-se-Baai (Exxaro) wind energy regional assessment

Overberg (BioTherm) wind energy regional assessments

- Area 1: Gordons Bay to Pearly Beach)
- Area 2: Napier RA (Agulhas NP/Swellendal region)

Suurplaat/Sutherland (Investec Wind Energy Development) Regional Assessment

Waterberg (Limpopo) Concentrating Solar Power (CSP) Regional Assessment (Exxaro)

Western Cape Province Regional SEA for Wind Energy Facility developments

ISS Global Mining Regional SEA for Power Station Developments in Mpumalanga Province

Northern Cape Province Regional SEA for Wind Energy Facility developments

Bosjesmansberg Regional SEA for solar PV projects

Delmas Regional SEA for Power Station Developments in Mpumalanga

Limpopo Regional SEA for solar PV projects

Slangkop Regional SEA for Wind Energy Facility developments

Bakenskop, Trouberg and Harpuisberg Regional SEA for WEFs

Wolf Wind (Addo Elephant NP) regional assessment

Nelson Mandela Bay Metropolitan Municipality SEA for WEFs

Umuziwabantu Local Municipality SEA

### **Visual Impact Assessments (VIA), viewshed analyses and visual assessments**

- Coal strip mining in Zimbabwe viewshed analyses
- Viewshed analyses and sensitivity mapping for telecommunication masts in the northern provinces (Limpopo, Mpumalanga and North-West)
- Siemens 3rd license cellular communications infrastructure EIAs. Viewshed analyses and sensitivity mapping for over 4,000 telecommunication mast sites in all major metropolitan areas of South Africa.
- CSIR high mast viewshed analysis and sensitivity mapping



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- Atlantis Open Cycle Gas Turbine power station VIA
  - Kynoch Gypsum Tailings dam extension VIA
  - N1 Western Bypass Shell service station VIA
  - Coega regional hazardous waste processing facility VIA
  - Robinson Deep landfill extension VIA
  - Hazardous waste blending platform VIA
  - Mercury-Ferrum-Garona transmission line integration VIA
  - Matimba B (Medupi) coal-fired power station VIA
  - Concentrating Solar Power (CSP) plant in Upington VIA
  - Zeus to Mercury transmission line (comparative viewshed analyses)
  - Mmamabula (Botswana) transmission line and power station viewshed analyses
  - Petronet new multi-products pipeline VIA
  - Wind energy facility (Sere) in the Western Cape province VIA
  - Ankerlig power station conversion and transmission line VIA
  - Gourikwa power station conversion and transmission line VIA
  - Kyalami strengthening project VIA
  - Steelpoort integration project VIA
  - Medupi reservoir and telecommunication mast VIA
  - VIA's for Basic Assessment Reports (wind monitoring masts)
    - Cookhouse, Hopefield, Amakhala, Caledon, Worcester, Tulbach, Overberg, Britannia Bay, Brand-se-Baai, Deep River, Happy Valley, River Bank, Uiekraal, Beaufort West, Laingsburg, Rheboksfontein, Suurplaat and West Coast
  - Cookhouse wind energy facility VIA
  - Hopefield wind energy facility VIA
  - Mokopane Integration Project VIA
  - Cradle of Humankind World Heritage Site (WHS) viewshed protection zone, visual character assessment and visual zonation plan
  - Indwe wind energy facility VIA
  - Amakhala wind energy facility VIA
  - Boontjieskraal wind energy facility VIA
  - Britannia Bay wind energy facility VIA
  - Brand-se-Baai wind energy facility VIA
  - Upington and Pofadder solar thermal facilities VIAs
  - Dorper wind energy facility VIA
  - Flagging Trees wind energy facility VIA
  - Rheboksfontein, Suurplaat and West Coast wind energy facilities VIAs
  - Riverbank wind energy facility VIA
  - Waterberg photovoltaic plant VIA
  - Eskom wind intergration projects VIAs
  - Welgedacht water care works VIA
  - Aberdeen wind energy facility
  - Aggeneis-Oranjemund power line intergration
  - Project Blue wind energy facility
  - Inca De Aar solar energy facility
  - Aced De Aar solar energy facility
  - Exxaro Lephale solar energy facility
  - Happy Valley wind energy facility
  - Hendrina power station ash dam extension
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- Hidden Valley wind energy facility
  - Kakamas photovoltaic plant
  - Karoo renewable energy facility
  - Ilanga (Karoskraal) solar thermal power plant
  - Keimoes photovoltaic plants (Sonnenberg, Ofir and Geelkop)
  - Kimberley photovoltaic solar plant
  - Kleinbegin photovoltaic plant
  - Kleinzee wind energy facility
  - Koingnaas wind energy facility
  - Kabi Vaalkop (Orkney) PV solar energy facility
  - Oyster Bay wind energy facility
  - Ilanga Lethemba (Paardevelei) PV solar energy facility
  - Upington photovoltaic solar facility
  - Ramphela (Ritchie) PV solar energy facility
  - Rodicon PV solar energy facility
  - Ruukie (Mpumalanga) coal fired power station
  - Saldanha Steel wind energy facility
  - Kathu, Sishen and San Solar PV solar energy facilities
  - Christiana, Morgenzon and Hertzogville PV solar energy facilities
  - Namaqua and Voëlkip PV solar energy facilities
  - Denhami (Struisbaai) wind energy facility
  - Spitskop wind energy facility
  - Tsitsikamma community wind energy facility
  - Uyekraal wind energy facility
  - Veldrift and Saldanha wind energy facilities
  - Vredendal photovoltaic solar energy facility
  - Wag'nBiekiespan solar energy facility
  - Walker Bay wind energy facility
  - Riemvasmaak (Augrabies) hydro electric facility
  - Bosjesmansberg solar energy facility
  - Everest, Grootkop, Watershed and Oryx PV solar energy facilities
  - Garob to Kronos power line
  - Graafwater PV solar energy facility
  - Kgabalatsane solar energy facility
  - Kheis solar park project
  - Gihon and Kison solar energy facilities
  - New Dimensions PV solar park in Mafikeng
  - Goereesoe (Outeniqua) wind farm
  - Burchell, Cuprum to Mooidraai power line
  - Rhebokfontein WEF power line
  - Ruuki power station
  - Sirius Solar PV projects
  - Tiger solar energy facility
  - Uyekraal WEF
  - Velddrif WEF
  - Zen WEF
  - Zoutpan (Olifants River) WEF
  - Gunsfontein and Stormberg WEFs

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- Aberdeen WEF
  - Albertinia WEF
  - Exxaro Baseload Power Station Lephalale
  - Blue Wave (Wolmaransstad) PV SEF
  - Castle WEF
  - East Power Line (Hotazel)
  - Elliot WEF
  - Exheredo Renewable Energy projects
  - Kareebosch WEF
  - Koeberg to Ankerlig Power Line
  - Mainstream Pofadder renewable energy facility
  - Stuart Coal Weltevreden coal mine
  - Transalloys Coal-fired power plant
  - Colenso Power Station and Mine
  - Lonmin Mooinooi landfill extension
  - Metsimatala Concentrating Solar Power facility
  - Matjhabeng PV Solar Energy Facility
  - Modderfontein Solar Thermal PV Plants (Ekurhuleni)
  - iSimangaliso Wetland Park viewshed analysis
  - Melkspruit substation to Rouxville substation power line
  - Muhlava mine
  - Tina Falls hydropower project
  - Boulders Wind Farm
  - Allepad PV 1- 4 SEFs
  - Lichtenburg PV 1 - 3 SEFs
  - Namas and Zonnequa WEFs and overhead power lines
  - Wobben wind energy converter
  - Haga Haga WEF
  - Hyperion power line
  - Jagdlust overhead power lines and substation
  - Ilanga (Karoshoek) Solar Park
  - Calodex PV SEF
  - Kolkies and Sadawa PV SEFs
  - Kotulo Tsatsi PV SEFs
  - CBE WEF near Toalagnaro in Madagascar
  - Richards Bay Gas to Power Project
  - Grid connection infrastructure for the Frontier Power Gas to Power Project
  - Vrede and Rondavel PV SEFs
  - Vygenhoek Platinum Mine
  - Various comparative viewshed analyses and reviews for Part 2 Amendments

### Professional History

**4/2017:** Professional GISc and VIA Practitioner (sole proprietor/self employed)

**1/2016 – 3/2017:** SMEC South Africa, Pretoria – Technical Specialist

**11/1999 – 12/2015:** MetroGIS (Pty) Ltd, Pretoria – Director

**10/1997 – 10/1999:** GISBS (GIS Business Solutions - Q Data Consulting) – Project Manager

**4/1990 - 9/1997:** GisLAB CC (GIS Laboratory - University of Pretoria) – Member / Project Manager

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### **Courses & Conferences attended**

1997 ESRI International User Conference – United States of America

### **Publications & Papers presented**

**Name:** Gateway to Kruger Map and Guide

**Authors:** Andy Tinker Photography

**Publisher:** ATP Publishing

**Date:** 2010

**Name:** Kruger National Park Map and Photographic Guide

**Authors:** Andy Tinker Photography

**Publisher:** ATP Publishing

**Date:** 2007

**Name:** Lowveld and Kruger Guide

**Authors:** High Branching Team

**Publisher:** Jacana Media (Pty) Ltd

**Date:** 2004

**Name:** Heights to Homes to Oceans (H2O) Water Wise information poster

**Authors:** Rand Water

**Publisher:** Rand Water

**Date:** 2004

**Name:** Garden Route - Still Bay to Storms River (Discover the Magic)

**Authors:** Jacana

**Publisher:** Jacana Media (Pty) Ltd

**Date:** 2003

**Name:** KwaZulu-Natal - A celebration of biodiversity

**Authors:** Jacana

**Publisher:** Jacana Media (Pty) Ltd

**Date:** 2001

**Name:** Pilanesberg Official Map and Park Guide

**Authors:** North-West Parks & Tourism Board and Jacana

**Publisher:** Jacana Media (Pty) Ltd

**Date:** 2001

**Name:** ESRI Map Book (Volume 13)

**Authors:** Various

**Publisher:** Environmental Systems Research Institute (ESRI)

**Date:** 1998

**Name:** Environmental Potential Atlas for South Africa

**Authors:** W. van Riet, J. van Rensburg, P. Claassen, L. du Plessis and T. van Viegen

**Publisher:** J.L. van Schaik

**Date:** 1997

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## Awards

**Award:** Best South African Environmental Technical Paper  
**Awarded for:** Environmental Potential Atlas for South Africa (Publication)  
**Awarded by:** Environmental Planning Professions Interdisciplinary Committee (EPPIC)  
**Date:** 1998

**Award:** QDC Performance Award  
**Awarded for:** ENPAT Development  
**Awarded by:** Q Data Consulting  
**Date:** 1998

**Award:** Best Cartographic Map Gallery Competition - 3rd Place  
**Awarded for:** Environmental Potential Atlas for South Africa (Publication)  
**Awarded by:** Environmental Systems Research Institute (ESRI)  
**Date:** 1998 International ESRI User Conference

**Award:** Map Gallery Most Analytical Competition - 3rd Place  
**Awarded for:** Environmental Potential Atlas for South Africa  
**Awarded by:** Environmental Systems Research Institute (ESRI)  
**Date:** 1997 International ESRI User Conference

**Award:** Best South African Environmental Technical Paper  
**Awarded for:** National Environmental Potential Atlas (ENPAT National)  
**Awarded by:** Environmental Planning Professions Interdisciplinary Committee (EPPIC)  
**Date:** 1995

## Language Skills

<b>Mother Tongue:</b>	Afrikaans		
<b>Languages</b>	<b>Speak</b>	<b>Read</b>	<b>Write</b>
English	Good	Good	Good
Afrikaans	Good	Good	Good



**dedect**

Department:  
Economic Development, Environment, Conservation and Tourism  
North West Provincial Government  
REPUBLIC OF SOUTH AFRICA



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Fax: +27(18) 384 0104

**I Kholo**

**DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST**

(For official use only)

File Reference Number:  
NEAS Reference Number:  
Date Received:


Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014

**PROJECT TITLE**

**PROPOSED DEVELOPMENT OF THE 40MWp BUFFELSPOORT SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE NEAR MOOINOOI, NORTH-WEST PRORINCE**

**1. Details of Specialist**

Type of Specialist:  
Company Name:  
Contact person:  
Postal address:  
Postal code:  
Telephone:  
E-mail:  
Professional affiliation(s) (if any)

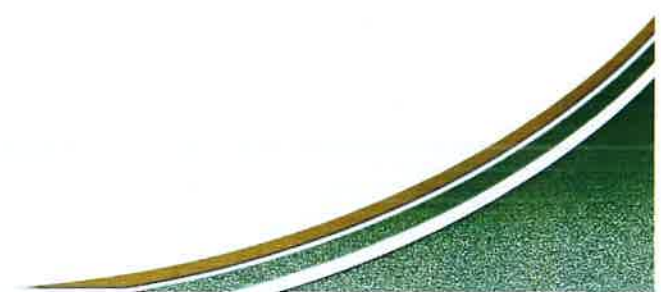
Social Specialist		
Savannah Environmental		
Nondumiso Bulunga		
PO Box 148 Sunninghill Gauteng		
2157	Cell:	0794580862
0116563237	Fax:	
nondumiso@savannahsa.com		
IAP2		

Project Consultant:  
Contact person:  
Postal address:  
Postal code:  
Telephone:  
E-mail:

	Cell:	
	Fax:	



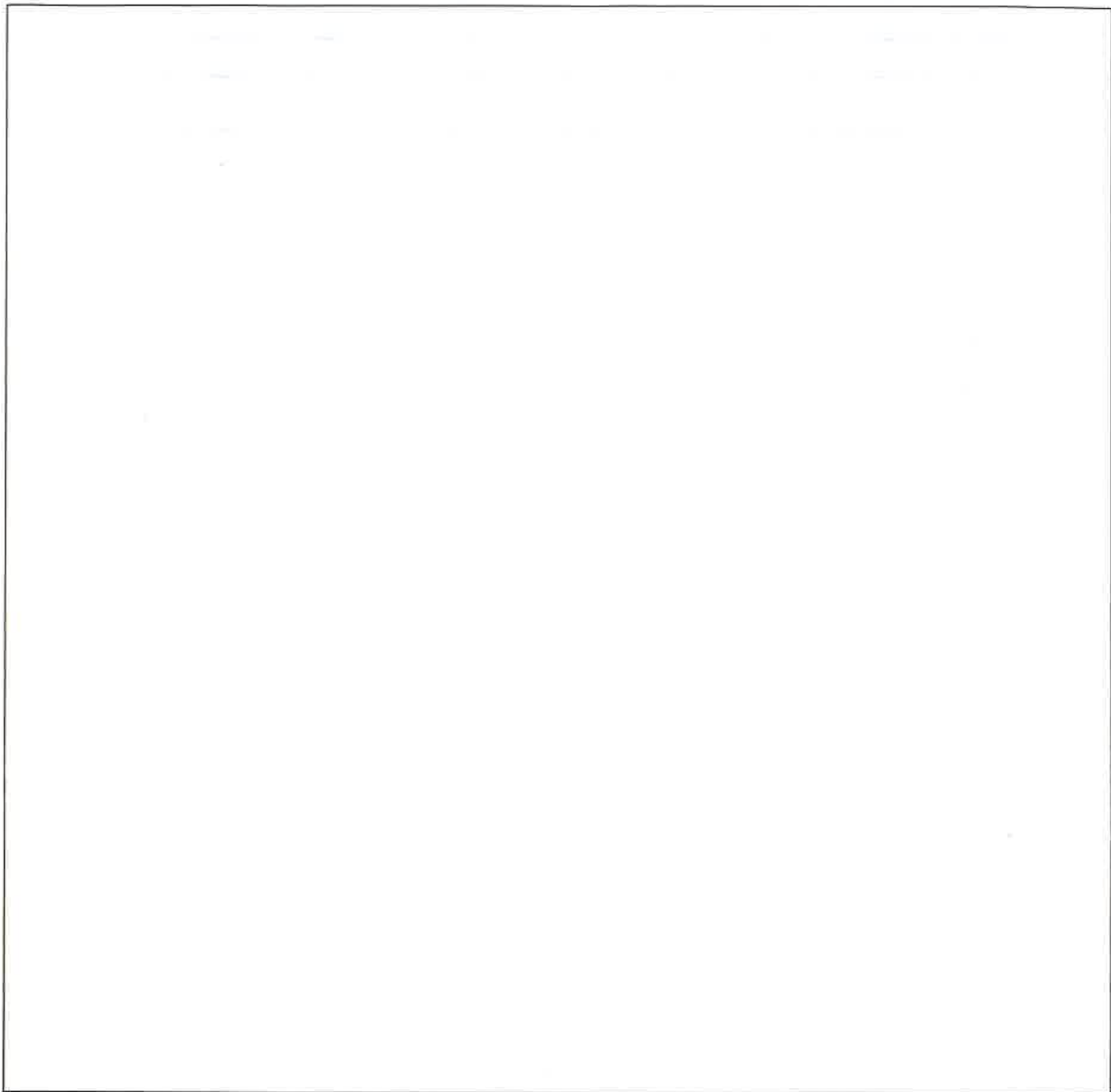
Together we move North West forward.





2. **Expertise of the Specialist including Curriculum vitae (Appendix 6 (1)(a)(ii) of EIA Regulations, 2014)**

**Nondumiso Bulunga** is a Social, GIS and Stakeholder Engagement Specialist at Savannah Environmental. Nondumiso has eight (8) years working experience in project management and facilitation in various industries such as environmental services field including but not limited to recycling, industrial, energy, mining, and agriculture. Working for small and large organisations, Nondumiso has gained exposure in research, collection of data, critical analysis, GIS, and environmental solutions. Nondumiso has worked on projects in South Africa and Malawi. Nondumiso is very well versed in the IFC Environmental and Social Performance Standards (including IFC PS 2012) and the associated Equator Principles, which have informed the approach and standard for projects regarding ESIA. Nondumiso is skilled at organising and driving effective project teams at a scale relevant to the project's requirements. She has technical experience and can quickly identify the most pertinent issues of a particular project whilst focusing on driving project success by rigorously implementing project management tools.



**3. Declaration by Specialist**

*Details and Expertise of Specialist and Declaration of Interest  
EIA Regulations, 2014*



I, -----Nondumiso Bulunga----- ( Name of Specialist) of -----Savannah Environmental (Pty) Ltd----- (name of company) declare that;

- I act as an independent specialist in this application.
- I will 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.
- there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant/ Environmental Assessment Practitioner appointed by applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- **all the particulars furnished by me in this form are true and correct; and**
- **I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of Section 48B(2) of the Act.**

*Nondumiso Bulunga*

Signature of the specialist

Savannah Environmental (Pty) Ltd

Name of company (if applicable)

17.05.2022

Date

*[Signature]*

Signature of the Commissioner of Oaths

*17/05/2022*

Date

Designation

Official stamp:

COMMISSIONER OF OATHS EX OFFICIO  
**ROBERTO SMALL**  
 PRACTISING ATTORNEY OF SA  
 MOTSEKUOA INCORPORATED ATTORNEYS  
 PINWOOD OFFICE PARK, PINWOOD OFFICE SQUARE G18  
 33 RILEY ROAD, WOODMEAD  
 (T) 011 568 5040 (F) 011 568 5045



## CURRICULUM VITAE OF NONDUMISO BULUNGA

### Comprehensive CV

<b>Profession :</b>	Lead - Social, GIS and Stakeholder Engagement
<b>Specialisation:</b>	Social, GIS and Stakeholder Engagement in the environmental field
<b>Work Experience:</b>	8 years in the Environmental field.

### VOCATIONAL EXPERIENCE

Nondumiso Bulunga is a Social, GIS and Stakeholder Engagement Specialist at Savannah Environmental. Nondumiso has eight (8) years working experience in project management and facilitation in various industries such as environmental services field including but not limited to recycling, industrial, energy, mining and agriculture.

Working for small and large organisations, Nondumiso has gained exposure in research, collection of data, critical analysis, GIS, and environmental solutions. Nondumiso has worked on projects in South Africa and Malawi.

Nondumiso is very well versed in the IFC Environmental and Social Performance Standards (including IFC PS 2012) and the associated Equator Principles, which have informed the approach and standard for projects regarding ESIA. Nondumiso is skilled at organising and driving effective project teams at a scale relevant to the project's requirements. She has technical experience and can quickly identify the most pertinent issues of a particular project whilst focussing on driving project success by rigorously implementing project management tools.

Nondumiso has experience ranging over several aspects of social research, including the planning and execution of social surveys, participatory rural appraisal, sustainable livelihoods assessments, data management and statistical analysis, capturing and management of spatial data, stakeholder identification and community facilitation. She has worked in local and regional projects taking part in socioeconomic impact assessment, livelihood restoration plans and resettlement plans.

## SKILLS BASE AND CORE COMPETENCIES

- Consultation
- Stakeholder Engagement
- Facilitation
- Social Impact Assessments
- Communication
- Project Management
- Project Coordination
- Research
- Training and Development
- Geographical Information Systems, Remote Sensing
- Stakeholder Engagement Plans
- Stakeholder Analysis and Mapping
- IFC Performance Standards
- Comments and Response Reports
- Grievance Mechanism
- Awareness Campaign

## EDUCATION AND PROFESSIONAL STATUS

### Degrees:

- 2018 : MSC GEOGRAPHICAL INFORMATION SYSTEM and REMOTE SENSING
- 2015 : BAHONS in GEOGRAPHY
- 2013 : BA in GEOGRAPHY AND SOCIOLOGY

### Short Courses:

- 2015 One day information session on Modern Technologies and Pathways for the Energetic Use of Biomass
- 2015 One day Public lecture on Climate Change
- 2017 Accredited facilitation certification
- 2017 One day course on Office Management Training
- 2018 Resettlement as part of Impact Assessment

## EMPLOYMENT

Duration	Position	Company	Roles and Responsibilities
May 2021 – current •Permanent	Lead Consultant: Social, Stakeholder Engagement and GIS	Savannah Environmental (Pty) Ltd	Build, lead and manage a Stakeholder Consultation and Engagement team. Advance the Social Impact Assessment reporting service offering. Manage an in-house GIS team and upskill to improve and develop new deliverables for the EIA and Compliance teams. New business development, including development and driving the development of new products and/or services as part of the Savannah Environmental service offering. Manage and mentor staff and critically review and edit reporting/deliverables. Provide strategic input to business and project deliverables.

<b>Duration</b>	<b>Position</b>	<b>Company</b>	<b>Roles and Responsibilities</b>
October 2020 – February 2021 ●Contract	Data Analyst	Community Insights Groups (International)	<ul style="list-style-type: none"> <li>Desk review of project documentation to inform data collection tools</li> <li>Contribute to the development of monitoring indicators</li> <li>Develop new databases of indicators and consolidate with existing databases from the client</li> <li>Develop household and focus group questionnaires</li> <li>Develop interview/ focus group guidelines</li> <li>Develop fieldwork plan</li> <li>Set up survey software</li> <li>Train local enumerators in the use of the survey software (over ZOOM)</li> <li>Provide remote support to the field team on the survey software</li> <li>Undertake phone KIIs</li> <li>Develop information campaign materials and visual aids for focus groups, KIIs</li> <li>Data organization and quality assurance during the field work (remote)</li> <li>Organize, clean and handover raw data to the client</li> <li>Desktop data analysis – qualitative and quantitative</li> <li>Produce and populate pivot and frequency distribution tables</li> <li>Produce narrative and graphic description of the data for the client report</li> <li>GIS Data Management and Handling</li> <li>Map creation and analysis</li> </ul>
November 2019 – March 2021 ●Contract	Policy Coordinator Consultant	International Finance Corporation (International)	<ul style="list-style-type: none"> <li>Support to the Agri-processing resource efficiency program</li> <li>Coordinate public and private stakeholders to propose specific policy</li> <li>Regulatory and procedural measures to promote improved water efficiency</li> <li>Convening a public-private dialogue process to reach consensus</li> <li>Manage partnerships with local authorities</li> <li>Due Diligence and risk assessment</li> </ul>
April 2020 – October 2020 ●Contract	Project Manager	Pax Advisory (Pty) Ltd (South African)	<ul style="list-style-type: none"> <li>Plan and implement projects</li> <li>Define project scope</li> <li>Help define goals</li> <li>Define deliverables</li> <li>Define tasks and required resources</li> <li>Create schedule</li> <li>Project timeline</li> <li>Manage budget</li> <li>Allocate project resources</li> <li>Track deliverables</li> <li>Support and direct team</li> <li>Lead quality assurance</li> <li>Monitor and report on project progress</li> <li>Present to stakeholders reports on progress as well as problems and solutions</li> <li>Implement and manage change</li> <li>Project data management</li> </ul>



Duration	Position	Company	Roles and Responsibilities
March 2017- November 2019 ●Permanent	Environmental Stakeholder Consultant	Digby Wells Environmental (Pty) Ltd (South African)	Addressing issues and needs of communities' Public participation process and communicate Liaise with stakeholders Scientific report writing for social and stakeholder engagement inclusion Assistance is provided in maintaining and updating Interested and Affected database Print / photocopy and the deliver documents to various stakeholders Distribute information (placing posters, posting, mailing, emailing, sending SMS messages, etc.) Assist with the project administration on large and small projects Data collection and inclusion into scientific reports Assist with information material and report compilation material
February 2015 – February 2017 ●Permanent	Environmental Officer	EcoPartners (Pty) Ltd (South African)	Public participation for environmental legal authorisation applications Compiling legal registers and monthly legal update letter Supply all services required for I and APs Write and edit reports Research various environmental aspects. Environmental awareness training Creation of maps for all environmental applications Collection of spatial information Build and Maintain data and information libraries Data collection and analysis Environmental legal authorisation applications
February 2014- September 2014 ●Permanent	Graduate Researcher	Linkd Environmental Services (Pty) Ltd (South African)	Research for projects given as tenders Collecting data from the different forms of information Collecting data for the purpose of controlling it and reporting on it in order to formulate status quo Create reports based on the data, give recommendations for better quality data to be collected Participate in workshop strategy sessions. Help implement policies formulated in strategy sessions and approved by steerco.
October 2014 – December 2014 ●Contract	Researcher and Report Writer	South African Cities Network (Pty) Ltd (South African)	Research Project co-ordination and management Knowledge management Reporting and administrative support GIS support and map analysis Report writing and research gaps

#### PROJECT EXPERIENCE

Project Name & Location	Client Name	Role
EIA for the Buffelspoort Solar Project, North West Province	Total Eren/Chariot Transitional Power	Social Impact Assessor and Public Participation Consultant
Environmental, Social & Governance (ESG) assessment	Richards Bay Coal Terminal (Pty) Ltd	Social Assessor
To Conduct Study of Sanitation Systems at Two Health Facilities, Swaziland	Ministry of Health, Swaziland	Environmental, Social and Health Specialist

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Social Impact Assessment - Doornhoek PV Cluster including 132kV line to the Hermes MTS	Atlantic Energy Partners (Pty) Ltd	Social Impact Assessor
Stakeholder engagement for the Socio-economic Impact Assessment for the closure of 3 Eskom power stations	Urban Econ on behalf of Eskom	Project Manager
Exxaro 22-month Resettlement Monitoring Proposal for Phumulani Agri-Village, Mpumalanga	CSG Water & Environmental Consultants on behalf of Exxaro	Report Writer Reviewer, Quality Assurance & Project Support
Environmental Impact Assessment for Agricultural and Pivot Development on various farm portions, Free State Province	Venter Boerdery (Pty) Ltd	Project Manager
Scoping and environmental Impact Report for 175 MW PV, North West	Sibanye Stillwater	Report Writer Reviewer, Quality Assurance & Project Support
EIA Process for Siyanda PV Facilities & BESS	SoLink	Social Impact Assessor and Public Participation Consultant
BA for Hopefield Watercourse Crossing	Umoya Energy (Pty) Ltd	Reviewer & Quality Assurance
BAR for the 10MW Sigma PV Project, Free State	SOLA Group	Social Impact Assessor
SIAs for 2x EIAs for PV & BESS at Siyanda Bakgatla Mine, Limpopo	SoLink	Social Impact Assessor
SIA for 2x 100MW PV south of Hartebeesfontein, North West - in Klerksdorp REDZ	Cape EPrac	Social Impact Assessor
Socio-economic impact assessments (Scoping/EIA) for Pofadder Wind farm cluster, Northern Cape	Atlantic Energy Partners (Pty) Ltd	Social Impact Assessor
Socio-economic impact assessments (Scoping/EIA) for Pofadder Wind farm cluster, Northern Cape	Engie Solar	Reviewer & Quality Assurance
BA for additional area for Grootspuit Solar PV facility, Free State Province	Engie Solar	Reviewer & Quality Assurance
EIA for additional area for Graspan Solar PV facility, Northern Cape Province	Engie Solar	Reviewer & Quality Assurance
EIA for additional area for Sannaspos Solar PV facility, Free State Province	Engie Solar	Reviewer & Quality Assurance
EIA for 225MW San Solar PV on a site north west of Kathu, Northern Cape Province	San Solar Energy (Pty) Ltd	Social Impact Assessor
SIA for a Battery Energy Storage System (BESS) within the authorised footprint of Hotazel Solar - amendment application	Cape EPrac	Social Impact Assessor
BA processes for 3x Kheis PV facilities	AGV Projects	Social Impact Assessor
Screening of sites for the placement of PV facilities near Northam, Limpopo Province	SoLink	GIS Specialist
BAR for the 10MW Sigma PV Project, Free State	SOLA Group	Social Impact Assessor
Land sensitivity analysis on the identified land for the Merafong Solar Farm Cluster Project	Gauteng Infrastructure Financing Agency	Social and GIS Specialist
EIA/WML for Majuba waste disposal facility	Eskom – Majuba Power Station	Reviewer & Quality Assurance
P2 amendment for Poortjies Wind Energy Facility	Mainstream Renewable Power	Reviewer & Quality Assurance
EIAs for 2x 100MW PV on a site west of Lichtenburg, North West	Atlantic Energy Partners (Pty) Ltd	Reviewer & Quality Assurance
EIA processes for the Great Karoo Renewable Energy Cluster	Great Karoo Renewable Energy	Reviewer & Quality Assurance
Proposed Grid Connection Infrastructure for the Woodhouse 1 and Woodhouse 2 Solar Energy Facilities	Genesis Eco-Energy Developments (Pty) Ltd	Report Writer Reviewer, Quality Assurance & Project Support
Environmental Impact Assessment And Public Participation Process For The Proposed Development Of The Nama Solar East Facility And Nama Solar West Solar Facility With Associated	Nama Solar East (Pty) Ltd and Nama Solar West (Pty) Ltd.	Reviewer, Quality Assurance & Project Support

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Infrastructure, Northern Cape		
Proposed Development of a New Waste Disposal Site at the Eskom Majuba Power Station near Amersfoort, Dr Pixley Ka Seme Local Municipality, Mpumalanga Province	Eskom Holdings Ltd	Report Writer, Quality Assurance & GIS Support
The Construction of the 100MW Nku Solar Photovoltaic Facility (PV1), on portion 96 of the Farm Rondavel 85 and Farm Annex Rondavel, near Richmond, Northern Cape Province	Great Karoo Renewable Energy (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Environment, Social & Governance (ESG) Assessment and Development of ESG Policy	Richards Bay Coal Terminal Proprietary Limited	Report Writer and Assessment Practitioner
Environmental Impact Assessment Process for 2X 100MW Solar PV Facilities	Atlantic Energy Partners (Pty) Ltd	Report Writer - Social Impact Assessment Quality Assurance/Reviewer
Moeding Solar PV Facility and Tiger Kloof Solar Facility with nearby settlements	Kabi (Pty) Ltd	Geographical Information Systems Specialist (GIS) & Reviewer/Quality Assurance
Solar PV Screening, Kathu Northern Cape Province	AGV Projects (Pty) Ltd	Report Writer, Researcher & Quality Assurance & GIS Support
Solar PV Screening/and or Wind Projects, Vredendal Western Cape Province	ABO Wind (Pty) Ltd	Report Writer, Researcher & Quality Assurance & GIS Support
Komsberg West Wind Energy Northern and Western Cape Provinces Revised Environmental Management Programme and Final Layout	Gunstfontein Wind Farm (Pty) Ltd,	Reviewer, Quality Assurance & Project Support
Grid Connection Infrastructure for the Namas Wind Farm	Genesis Namas Wind (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Grid Connection Infrastructure for the Zonnequa Wind Farm	Gensis Zonnequa Wind (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Proposed 10mw Northam Solar Pv Facility Near Thabazimbi, Limpopo Province	Northam Platinum Limited	Reviewer, Quality Assurance & Project Support
Amendment of the Environmental Authorisation for the Proposed Construction of The Gunstfontein Switching Station, 132kv Overhead Power Line And Ancillary Infrastructure For The Proposed Gunstfontein Wind Farm	Gunstfontein Wind Farm (Pty) Ltd	Geographical Information Systems Specialist (GIS) & Reviewer/Quality Assurance
Grid Connection Infrastructure, including 132kv Overhead Powerline, Switching Station And Ancillaries, For The Great Karoo Wind Farm, Northern Cape	Great Karoo Wind Farm (Pty) Ltd	Geographical Information Systems Specialist (GIS)
Perdekraal West Wind Energy Facility and Associated Infrastructure, Located in the Witzenburg Local Municipality Within The Western Cape Province	Perdekraal West Wind Farm (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Pienaarspoort Wind Energy Facility 1, Western Cape Province	Pienaarspoort Wind Energy Facility 1 (Pty)	Reviewer, Quality Assurance & Project Support
Environmental Impact Assessment And Public Participation Process Bergriver Wind Farm, Western Cape Province	FE Berg River (Pty) Ltd	Stakeholder Engagement and Reviewer, Quality Assurance
Construction and operation of the 100MW Rondavel PV facility, BESS and associated infrastructure near Kroonstad, Free State Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Kolkies and Sadawa PV and EGI Suite of projects, Western Cape	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Cluster Of Renewable Energy Facilities And Redz 3 Power Corridor 400 Main Transmission Substation Between Somerset East And Makhanda, Eastern Cape Province	Wind Relic (Pty) Ltd	Reviewer, Quality Assurance & Project Support

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Wind Garden Wind Farm And Fronteer Wind Farm Near Makhanda, Eastern Cape Province	Wind Garden (Pty) Ltd & Fronteer (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Environmental Authorisation required for Prospecting Right Application on various Portions of the Farm Schaapkopje 194 HT, 5km North of Vryheid Town in the AbaQulusi Local Municipality, KwaZulu Natal	Tuutuuka Resources Proprietary Limited	Report Writer and Project Administrator, Stakeholder Engagement & GIS Support
Social Impact Assessment for the Proposed Infrastructure Amendments Environmental Authorisation and Water Use License	Seriti Power (Pty) Ltd	Report Writer- Stakeholder Engagement & GIS Support
Social Impact Assessment for the Proposed Middelburg Mining Services (MMS) Boschmanskrans Section Implementation of Wetland Mitigation and Offset Strategy	Seriti Power (Pty) Ltd	Report Writer- Stakeholder Engagement & GIS Support
Environmental Authorisation And Integrated Water Use Licence Application For The Proposed Liquid Mist Trading Beneficiation Plant Expansion Project	Liquid Mist (Pty) Ltd	Report Writer and GIS Support
Basic Assessment Process In Support Of The Proposed The Construction Of Doornpoort Pumping Main And Pumpstation, Emalaheni Local Municipality In The Mpumalanga Province	Lefatshe Infrastructure Services (Pty) Ltd	Report Writer and Project Administrator & GIS Support
Water Use Licence Renewal Application for the Inyanda Coal Wash Plant, on the Portions 2, 20 And 21 Of Farm Kalbasfontein 284 JS & Portion 4 of Farm Mooifontein 285 JS Near Witbank in the eMalaheni Local Municipality, Mpumalanga	Inyanda Mining Holdings	Report Writer and Project Administrator
Social Impact Assessment for the Proposed Ikwezi Vanadium Mining Project	Ikwezi Vanadium (Pty) Ltd	Report Writer – Social Impact & Project Administrator
Environmental Authorisation (EIA) for the proposed Giyani Renewable Energy Solar Photovoltaic Power	Giyani Renewable Energy	Report Writer- Stakeholder Engagement & GIS Support
Environmental Authorisation required for Prospecting Right Application on farm Mooihoek and various farm portions of farm Pivaanspoort	Pivaanspoort (Pty) Ltd	Report Writer
Draft Basic Assessment Report For The Proposed Upgrade Of Weltevreden Wetland Interventions	Seriti Power (Pty) Ltd	Report Writer
Social and Labour Plan for the Straffontein Colliery	Mnambithi Mining (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Social and Labour Plan for the existing operational expansion Leeuwfontein Colliery Mining Right Amendment Applications	Zomhlaba Resources (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Social and Labour Plan for the existing operational expansion Lakeside Colliery Mining Right Amendment Applications	Zomhlaba Resources (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Social Impact Assessment for the Proposed Aangewys Coal Mine Mining Right Application	National Treasure Minerals (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Environmental Impact Assessment And Water Use Licence Application In Support Of The Proposed Grootlaagte Open Cast Mining, Mpumalanga – Arnot Opco (Pty) Ltd	Arnot OpCo	Report Writer- Stakeholder Engagement & GIS Support
Malawi Solar Projects, Livelihood restoration and social performance monitoring and planning	JCM Power	Data Analyst
750 AMPED Campaign	Health Wellness SETA	Project Manager
Integrity Due Diligence Reports	Various ( South African Poultry Industry, Centre of Industrial Scientific Research; SA Milk Producers	Policy Coordinator/ Report Writer
Policy Component for agri-processing projects	eThekweni Municipality	Policy Coordinator/ Report Writer

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Alignment of EIA's and WUL's	South 32	Social Specialist/Report Writer
Environmental Authorisation for Klipspruit Colliery	South 32	Social Specialist/Report Writer
Expansion and Development of Sun City Resorts	Sun International	Social Specialist/Report Writer
Environmental Authorisation for a Regulatory Environmental Process	Blyvoor Gold	Social Specialist/Report Writer
Mooikraal Road Diversion Project	Sasol (Pty) Ltd	Social Specialist/Report Writer
Pretorius Park Housing Development	Luengo Consulting	Social Specialist/Report Writer
Grave Relocation Project	Exxaro Resources	Social Specialist/Report Writer
Syferfontein Housing Development	LTE Consulting	Social Specialist/Report Writer
Leeuwpan Lifex Project	Exxaro Resources	Social Specialist/Report Writer
Environmental Authorisation required for Proposed Palmietkuilen Colliery near Springs	Canyon Resources (Pty) Ltd	Social Specialist/Report Writer
Environmental Authorisation required for the Agnes Gold Mine, Barberton	Galaxy Gold Reefs (Pty) Limited	Social Specialist/Report Writer
Environmental Authorisation for the Proposed Hendrina Underground Coal Mine, Mpumalanga	Glencore Operations South Africa (Pty) Ltd	Social Specialist/Report Writer
Environmental authorisation applications(Waste management, Water use license, EMP)	Various	Social Specialist/Report Writer
Environmental Authorisation Applications related to the Construction of Power Station, Associated Infrastructure, and Coal Mine near Colenso, KZN	Dunrose Investments 244 for Colenso Power (Pty) Ltd	Project Administrator/ Social Specialist
Environmental Awareness Training	Various	Facilitator
Legal register	Various	Report Compiler
Dynamics and Incidence of Child Abuse, Neglect and Exploitation(DICANE)	Department of Social Development	Facilitator
The Alexandra Environment Public Upgrade-management of the public participation process	Johannesburg Development Agency	Project Administrator
Cities Green Transport Programme	South African Cities Network	Project Researcher
Project Management of the EPWP Construction of the Mvoti Regional Landfill	Department of Environmental Affairs	Project Researcher
Development of climate change adaptation and mitigation programme	Department of Agriculture Forestry and Fisheries	Project Researcher
Capacity Building in spatial transformation	South African Cities Network	Project Researcher