

# Ndomupei Masawi

## Senior Environmental Scientist



**Profession**

Senior Environmental Scientist

**Education**

Masters, Geo-Information and Earth Observation for Environmental Management, the Netherlands, 2007  
 BSc (Hons), Environmental Sciences, Forest Resources and Wildlife Management, National University of Science and Technology (NUST), Zimbabwe, 2005

**Registrations/  
Affiliations**

Post Graduate Diploma in IWRM (current student)  
 Registration: Pr.Sci.Nat (400045/14) / Member:  
 International Participatory GIS Forum, IAIA SA Affiliate

**Specialisation**

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

**Expertise**

Ndomupei has more than 13 years of integrated environmental management and project management experience. Her experience includes compiling environmental management programmes, undertaking public participation processes, providing geographic information system (GIS) services and undertaking the processes and assessments to support applications for environmental authorisations, water use licences, waste management licences and air emission licences, for roads, railway lines, power stations, airports, dams, housing developments, schools in South Africa, Tanzania, Botswana, Lesotho, Zimbabwe and Uganda. Her expertise includes:

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

**Employment**

**2016 - present**  
**2008 - 2016**

SRK Consulting (Pty) Ltd, Senior Environmental Scientist, Pretoria  
 ILISO Consulting Environmental Management (Pty) Ltd, Environmental Scientist and GIS Specialist, Centurion

**2007 - 2007**

ITC/Government of Tanzania Project, Biodiversity Conservation, GIS and Remote Sensing Specialist on the Ruvu Forest project, Bagamoyo, Tanzania

**2005 - 2006**

Southern Alliance for Indigenous Resources (SAFIRE), Assistant Ecologist, Harare, Zimbabwe

**2003 - 2004**

Southern Alliance for Indigenous Resources (SAFIRE), Ecologist, Harare, Zimbabwe

**Languages**

English – read, write, speak  
 Shona – read, write, speak

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### **Key Experience: Environmental management and GIS**

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

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

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

Location: Limpopo  
 Project duration & year: July 2018 – Current  
 Client: Universal Coal  
 Name of Project: Application for a Mining Right for the Cygnus Site in Limpopo  
 Project Description: Application for a mining right for the Proposed Cygnus Coal Mine which includes application for a Water Use Licence and Environmental Authorisation  
 Job Title and Duties: Project Manager and EAP. Roles include management of the specialists and budget, compilation of the Scoping Report, the EIAR/EMPr and the IWWMP for the Water Use Licence Application  
 Value of Project: R 3.1 million

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

Location: Gauteng  
 Project duration & year: January 2018 – June 2018  
 Client: First Land Developments  
 Name of Project: Zwavelpoort Housing Development

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**Project Description:** Water Use Licence Application for a Housing Development in Zwavelpoort, Pretoria

**Job Title and Duties:** Environmental Assessment Practitioner. Compilation of the Water Use Licence Technical Report and application forms for the proposed Housing Development in Zwavelpoort, Pretoria

**Value of Project:** R 150 000

**Location:** Sasol

**Project duration & year:** February 2018 – July 2018

**Client:** Sasol South Africa (Pty) Ltd

**Name of Project:** Water Use Licence Application for powerlines at Sasol's Sasolburg Plant

**Project Description:** Water Use Licence Application for powerlines at Sasol's Sasolburg Plant

**Job Title and Duties:** Environmental Assessment Practitioner. Compilation of the phase 1 and 2 of the WUL Application

**Value of Project:** R 100 000

**Location:** Gauteng

**Project duration & year:** August 2018 – August 2018

**Client:** Herculite Ferrochrome Mine

**Name of Project:** External Audit for the Herculite Mine Water Use Licence

**Project Description:** External Audit for the Herculite Mine Water Use Licence

**Job Title and Duties:** External Auditor

**Value of Project:** R 40 000

**Location:** Gauteng

**Project duration & year:** March 2018 – April 2018

**Client:** Triakon Engineering Consulting (Pty) Ltd

**Name of Project:** Environmental Screening for the proposed housing development in Eldorado

**Project Description:** Environmental Screening for the proposed housing development in Eldorado

**Job Title and Duties:** Environmental Screening for the proposed housing development in Eldorado

**Value of Project:** R 20 000

**Location:** Limpopo

**Project duration & year:** January 2018 – March 2018

**Client:** Foskor (Pty) Ltd

**Name of Project:** Groundwater Monitoring for Foskor

**Project Description:** Annual Groundwater Monitoring for Foskor

**Job Title and Duties:** Water Specialist: Assessment of Groundwater Results and compilation of the groundwater monitoring report for the year 2017-2018

**Value of Project:** R 120 000

**Location:** Free State

**Project duration & year:** August 2017 – January 2018

**Client:** Manyeleti Consulting (Pty) Ltd

**Name of Project:** Manyeleti Prospecting Right Application

**Project Description:** Application for a prospecting right for coal in the Free State Province

**Job Title and Duties:** Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, Public Participation Process, Project coordination

**Value of Project:** R 400 000

**Location:** Mpumalanga

**Project duration & year:** June 2017 – April 2018

**Client:** Exxaro Coal

**Name of Project:** Environmental Authorisation processes at Exxaro Coal Central (ECC) Dorstfontein East Coal Mine

**Project Description:** Application for a Water Use Licence for the expansion of the Dorstfontein East Coal Mining Operation

**Job Title and Duties:** Compilation of the Integrated Water and Waste Management Plan.

**Value of Project:** R 400 000

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Location: Limpopo  
 Project duration & year: February 2017 – May 2017  
 Client: Universal Coal  
 Name of Project: Application for an Environmental Authorisation for the establishment of the Berenice Coal Mine in Limpopo  
 Project Description: Review of the Environmental Authorisation Processes and Documentation for the Berenice Coal Project  
 Job Title and Duties: Review of reports, process coordination and providing technical support to the EIA team.  
 Value of Project: R 400 000

Location: Johannesburg Gauteng  
 Project duration & year: September 2016 – June 2018  
 Client: Johannesburg Roads Agency (JRA)  
 Name of Project: Braamfontein Spruit Rehabilitation Study  
 Project Description: Rehabilitation study for the Braamfontein Spruit  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Water Use Licence Technical Report and application forms, environmental impact assessment of the identified remedial measures, water quality assessment of the Braamfontein Spruit, conducting the public participation process and management of environmental specialists.  
 Value of Project: R 5.5 million

Location: Ekurhuleni Gauteng  
 Project duration & year: September 2016 – Current  
 Client: Ekurhuleni Local Municipality  
 Name of Project: Boksburg Lake Rehabilitation Plan and Associated Authorisations  
 Project Description: Compilation of a rehabilitation plan and conducting of the associated environmental authorisation application processes  
 Job Title and Duties: Environmental Specialist. Environmental Status Quo and water quality Assessment of the Boksburg Lake and Boksburg Lake catchment, Stakeholder Engagement, Environmental Impact Assessment of the identified remediation measures, undertaking the applications for required environmental permits (environmental authorisation and water use licence) for the remediation measures.  
 Value of Project: R 2.3million

Location: Rustenburg North West  
 Project duration & year: September 2016 – Current  
 Client: Omnia Fertilizers  
 Name of Project: Decommissioning of the Omnia Fertilizers-Rustenburg Factory  
 Project Description: Application for an Environmental Authorisation and Waste Management Licence for the decommissioning of the Omnia Fertilizers-Rustenburg Factory.  
 Job Title and Duties: Environmental Assessment Practitioner. Application for the amendment of Omnia's Water Use Licence, Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists.  
 Value of Project: R 300 000

Location: Witbank Mpumalanga  
 Project duration & year: February 2016 – June 2016  
 Client: Eskom Holdings  
 Name of Project: Construction of a water supply pipeline at the Duvha Power Station  
 Project Description: Application for an Environmental Authorisation for the construction of a water supply pipeline at the Duvha Power Station.  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists.  
 Value of Project: R 400 000

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Location: Eastern Cape  
 Project duration & year: February 2016 to August 2016  
 Client: Eastern Cape Department of Roads and Public Works  
 Name of Project: EIA/EMP for the construction of an office precinct in Bhisho  
 Project Description: Compilation of an EIA/EMP and application for General Authorisation  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists  
 Value of Project: R700 000

Location: Limpopo Province  
 Project duration & year: January 2016 – August 2016  
 Client: Tango Consultants  
 Name of Project: Application for mining permits for Borrow Pits in the Babanana Village in Limpopo  
 Project Description: Application for mining permits for Borrow Pits in the Babanana Village in Limpopo  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists  
 Value of Project: R700 000

Location: Eastern Cape  
 Project duration & year: November 2015 to August 2016  
 Client: Somlolo Steel Manufacturing (Pty) Ltd  
 Name of Project: EIA for the proposed 200 000 ton/Year Steel Galvanizing Plant within the Coega IDZ  
 Project Description: EIA for the proposed 200 000 ton/Year Steel Galvanizing Plant within the Coega IDZ  
 Job Title and Duties: Environmental Assessment Practitioner. Conducting the EIA process for the proposed steel galvanizing plant, including compilation of the scoping, EIR and EMP, management of the specialists and conducting the public participation process.  
 Value of Project: R500 000

Location: Mpumalanga  
 Project duration & year: November 2015 – March 2016  
 Client: Trans- Caledon Tunnel Authority (TCTA)  
 Name of Project: Emergency Water Pipeline for the Komati Water Augmentation Project (KWSAP)  
 Project Description: Environmental Impact Assessment for the proposed Emergency Water pipeline between the KWSAP pipeline and Kriel Water Treatment Plant.  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists.  
 Value of Project: R300 000

Location: Mpumalanga  
 Project duration & year: November 2015 – March 2016  
 Client: TCTA  
 Name of Project: Komati Water Scheme Augmentation Project (KWSAP)  
 Project Description: Application for amendments to the Environmental Authorisation for the KWSAP.  
 Job Title and Duties: Assistant Environmental Assessment Practitioner. Drafting the application and supporting information reports, conducting the public participation process and management of specialists.  
 Value of Project: R350 000

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Location: Secunda, Mpumalanga  
 Project duration & year: July 2015 – November 2015  
 Client: Sasol  
 Name of Project: Development of an Integrated Water and Wastewater Plan for Sasol's Charlie One Landfill Site in Secunda  
 Project Description: Development of an Integrated Water and Wastewater Plan for Sasol's Charlie One Landfill Site in Secunda  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Integrated Water and Wastewater Plan  
 Value of Project: R 100 000

Location: Mpumalanga  
 Project duration & year: February 2013 to June 2015  
 Client: Eskom Holdings  
 Name of Project: Construction of infrastructure across rivers and wetlands at the Kusile Power Station  
 Project Description: Application for an Environmental Authorisation for the crossing of rivers and wetlands at the Kusile Power Station  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists  
 Value of Project: R 200 000

Location: Doringkloof, Gauteng  
 Project duration & year: April 2014 – September 2014  
 Client: City of Tshwane  
 Name of Project: City of Tshwane Flood Management  
 Project Description: Application for an Environmental Authorisation for the construction within the Doringkloof. The project entailed the upgrade of river crosses along the Doringkloof Spruit  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the Basic Assessment Report, conducting the public participation process and management of specialists  
 Value of Project: R150 000

Location: South Africa  
 Project duration & year: 2014 - 2014  
 Client: Eskom Holdings  
 Name of Project: Application for exemption and postponement of the Minimum Air Emission Standards  
 Project Description: Water Resources Assessment for the Eskom Power Stations as part of the application for exemption and postponement of the Minimum Air Emission Standards  
 Job Title and Duties: Environmental Scientist – Conducting the assessment of the water requirements for Eskom's Power Station  
 Value of Project: R2M

Location: Sasolburg, Free State  
 Project duration & year: February 2013 – June 2013  
 Client: Sasol  
 Name of Project: Water Use Licence Application for Sasol One and Midland Sites  
 Project Description: Water Use Licence Application for Sasol One and Midland Sites  
 Job Title and Duties: Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.  
 Value of Project: R400 000

Location: Mpumalanga  
 Project duration & year: 2012-2014  
 Client: Eskom Holdings

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Name of Project:	Integrated Application for an Environmental Authorisation and Waste Management Licence for the 10 year Hazardous Waste Disposal Site at the Kusile Power Station
Project Description:	Integrated Application for an Environmental Authorisation and Waste Management Licence for the 10 year Hazardous Waste Disposal Site at the Kusile Power Station
Job Title and Duties:	Environmental Assessment Practitioner. Conducting the EIA process for the proposed hazardous waste facility, including compilation of the scoping, EIR and EMP, management of the specialists and conducting the public participation process.
Value of Project:	R 1.9M
Location:	Pretoria, Gauteng
Project duration & year:	2012-2013
Client:	City of Tshwane
Name of Project:	Application for an Environmental Authorisation and Water Use Licence for the upgrade and expansion of the Baviaanspoort Wastewater Treatment Works
Project Description:	Water Use Licence Application for the upgrade and expansion of the Baviaanspoort Wastewater Treatment Works
Job Title and Duties:	Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.
Value of Project:	R200 000
Location:	North West
Project duration & year:	2012-2013
Client:	Department of Water and Sanitation
Name of Project:	Marico River catchment
Project Description:	Groundwater Quality Assessment for the Marico River catchment
Job Title and Duties:	Water Quality Specialist. Collection of groundwater quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the groundwater quality report. GIS and Mapping.
Value of Project:	R400 000
Location:	Pretoria, Gauteng
Project duration & year:	2012-2013
Client:	City of Tshwane
Name of Project:	Application for an Environmental Authorisation and Water Use Licence for the upgrade and expansion of the Baviaanspoort Wastewater Treatment Works
Project Description:	Surface Water Quality Impact Assessment for the upgrading and expansion of Baviaanspoort WWTW
Job Title and Duties:	Water Quality Specialist. Collection of water quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the water quality report. GIS and Mapping.
Value of Project:	R100 000
Location:	North West
Project duration & year:	2012-2013
Client:	Department of Water and Sanitation
Name of Project:	Marico River catchment
Project Description:	Assessment of the impact of the Zeerust Wastewater Treatment Works on the Marico River Catchment water quality.
Job Title and Duties:	Water Quality Specialist. Collection of data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the report. GIS and Mapping.
Value of Project:	R100 000
Location:	Gauteng and Free State
Project duration & year:	March 2012 – September 2012

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Client:	RowingSA
Name of Project:	South African National Rowing Venue
Project Description:	Environmental Screening for the proposed new South African Rowing Venue.
Job Title and Duties:	Environmental Assessment Practitioner. Drafting the Environmental Screening report, GIS and mapping.
Value of Project:	R50 000.
Location:	Mpumalanga
Project duration & year:	2011-2012
Client:	Eskom Holdings
Name of Project:	Section 24 G Application for the Kusile Power Station
Project Description:	Section 24 Application for the construction of roads across rivers and wetlands at the Kusile Power Station
Job Title and Duties:	Public Participation Process Specialist. Conducting the public participation process for the Section 24 G process and compiling the public participation report. GIS and mapping.
Value of Project:	R300 000
Location:	Dinokeng, Gauteng
Project duration & year:	February 2011 - March 2011
Client:	Dinokeng
Name of Project:	Environmental Screening for the Boekenhoutskloof Airstrip development.
Project Description:	Environmental Screening for the Boekenhoutskloof Airstrip development.
Job Title and Duties:	Environmental Assessment Practitioner. Drafting the Environmental Screening report, GIS and mapping.
Value of Project:	R100 000
Location:	Katse, Lesotho
Project duration & year:	2011-2011
Client:	Lesotho highlands Development Agency (LHDA)
Name of Project:	Environmental Impact Assessment for the Kobong Pump Storage Scheme
Project Description:	Environmental Impact Assessment for the Kobong Pump Storage Scheme
Job Title and Duties:	Public Health Specialist. Conducting the public health impact assessment. GIS and Mapping
Value of Project:	R2M
Location:	Free State
Project duration & year:	2010 – 2010
Client:	Department of Water and Sanitation
Name of Project:	Bloemfontein Reconciliation Strategy Project.
Project Description:	Water Quality Assessment for the Bloemfontein Reconciliation Strategy Project.
Job Title and Duties:	Water Quality Specialist. Collection of water quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the water quality report. GIS and Mapping
Value of Project:	R300 000
Location:	Limpopo and Mpumalanga
Project duration & year:	2010 – 2010
Client:	Department of Water and Sanitation
Name of Project:	Olifants River Reconciliation Strategy Project.
Project Description:	Water Quality Assessment for the Olifants River Reconciliation Strategy Project.



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**Job Title and Duties:** Water Quality Specialist. Collection of water quality data from the Department of Water and Sanitation, assessment and interpretation of the data, compilation of the water quality report. GIS and Mapping

**Value of Project:** R300 000

**Location:** Chobe District, Botswana

**Project duration & year:** 2010-2010

**Client:** Botswana Department of Water Affairs

**Name of Project:** Environmental Impact Assessment for the construction of a water supply pipeline in the Chobe District of Botswana

**Project Description:** Environmental Impact Assessment for the construction of a water supply pipeline in the Chobe District of Botswana

**Job Title and Duties:** Human Geography Specialist – Conducting the impact assessment of the pipeline on human geography.

**Value of Project:** R4M

**Location:** Centurion, Gauteng

**Project duration & year:** 2009 – 2010

**Client:** Bombela Consortium

**Name of Project:** Construction of the Gautrain Rapid rail Link

**Project Description:** Amendment Application for the Gautrain Rapid Rail Link for the Technopark viaduct.

**Job Title and Duties:** Environmental Assessment Practitioner. Drafting the application and supporting information reports, conducting the public participation process and management of specialists.

**Value of Project:** R300 000

**Location:** Soshanguve, Gauteng

**Project duration & year:** February 2009 – December 2009

**Client:** Gauteng Department of Housing

**Name of Project:** Water Use Licence Application for the construction of a road across rivers and streams in Soshanguve HH-JJ area

**Project Description:** Water Use Licence Application for the construction of a road across rivers and streams in Soshanguve HH-JJ area

**Job Title and Duties:** Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.

**Value of Project:** R120 000

**Location:** Mpumalanga and Gauteng

**Project duration & year:** 2008-2013

**Client:** Department of Water and Sanitation

**Name of Project:** Electronic Water Quality Management System (eWQMS)

**Project Description:** Electronic Water Quality Management System (eWQMS)

**Job Title and Duties:** Provincial Team Leader for Gauteng and Mpumalanga Provinces Ensuring that the municipalities submit their monthly water quality and wastewater information to the Department via the eWQMS. Assisting municipalities with technical queries.

**Value of Project:** R5M

**Location:** Alexandra, Gauteng

**Project duration & year:** February 2008 to March 2009

**Client:** Johannesburg Roads Agency (JRA)

**Name of Project:** Water Use Licence Application for the construction of gabions on the Jukskei River and the construction of a bridge across the Jukskei River.

**Project Description:** Water Use Licence Application for the construction of gabions on the Jukskei River and the construction of a bridge across the Jukskei River.

**Job Title and Duties:** Environmental Assessment Practitioner. Compilation of the application forms and the supporting technical report.

## **Ndomupei Masawi**

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Value of Project: R90 000

Location: Botswana, South Africa and Namibia

Project duration & year: 2008-2009

Client: ORASECOM

Name of Project: Feasibility Study of the potential for sustainable water resources development in the Molopo-Nossob watercourse

Project Description: Feasibility Study of the potential for sustainable water resources development in the Molopo-Nossob watercourse

Job Title and Duties: GIS Specialist. Data collection, database creation and management, mapping.

Value of Project: R3M

**INTERNATIONAL INSTITUTE FOR GEO-INFORMATION SCIENCE  
AND EARTH OBSERVATION**



**MASTER DEGREE**  
in  
**Geo-information Science and Earth Observation**  
Specialisation:  
**Geo-information for Biodiversity Conservation**

**Awarded to**  
**Ndomupei Dhemba**  
**Born in Makoni (Zimbabwe) on 15 April 1982**  
**Nationality: Zimbabwean**

**WITH DISTINCTION**

**Enschede, the Netherlands,  
7 September 2007**

**Chairman of the Degree Assessment Board**

**Rector ITC**

"The Ministry of Education, Culture and Science of the Kingdom of the Netherlands endorses the academic standard of the degree awarded by this diploma as this programme complies with the standards imposed by the Netherlands higher education quality control system"

**DIPLOMA No. 25352**

Detailed information on performance is given on the course record no. 25352-a

# National University of Science and Technology



We hereby Certify that  
*Ndomupei Dhemba*  
having completed the programme of study  
approved by the University and  
having satisfied the Examiners  
has this day been admitted by the  
Senate to the  
**Bachelor of Science  
Honours Degree**

**in Forest Resources & Wildlife Management**

*in the Upper Second Division*

Vice-Chancellor

Certificate No.

H17705



Registrar

Date: 14/10/2005

BULAWAYO, ZIMBABWE

# SACNASP

South African Council for Natural Scientific Professions

**herewith certifies that**

**Ndomupei Dhemba**

Registration number: 400045/14

**is registered as a**

**Professional Natural Scientist**

**in terms of section 20(3) of the Natural Scientific Professions Act, 2003  
(Act 27 of 2003)**

**in the following field(s) of practice (Schedule I of the Act)**

**Environmental Science**

**12 March 2014**



12 March 2014

Pretoria

President

Executive Director



**NDOMUPEI DHEMBA**

**(Born 1982-04-15)**

**Qualification (1):** Bachelor of Science Honours in Forest Resources and Wildlife Management  
**Awarding body / institution:** National University of Science and Technology  
**Status:** State recognised university in Zimbabwe  
**Date of completion / award:** 2005  
**Documentation submitted:**

- Degree certificate reflecting the classification Upper Second Division
- Academic Transcript
- Zimbabwe General Certificate of Education (Ordinary and Advanced Level), 1998/2000

**Minimum entry requirement:** General Certificate of Education (Advanced Level) (considered to be comparable to the South African Senior Certificate)  
**Minimum duration of study:** Four years, including industrial attachment  
**Type of study:** Career-oriented  
**Field of Study:** Agriculture and Nature Conservation  
**Programme requirements:** Coursework and examination; project and supervised experiential learning  
**Eligibility in country of origin:** Access to employment and to postgraduate (master's) study  
**Level in country of origin:** Undergraduate

**Qualification (2):** Master In Geo-Information Science and Earth Observation (Geo-Information for Biodiversity Conservation)  
**Awarding body / institution:** International Institute for Geo-Information Science and Earth Observation  
**Status:** Recognised institution of higher learning in the Netherlands  
**Date of completion / award:** 2007  
**Documentation submitted:**

- Degree certificate
- Course Record

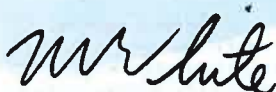
**Minimum entry requirement:** A relevant first (bachelor's) degree such as (1) above  
**Minimum duration of study:** One year  
**Type of study:** Academic (university)  
**Field of Study:** Physical, Mathematical, Computer and Life Sciences  
**Programme requirements:** Coursework and examination; project and thesis  
**Eligibility in country of origin:** Access to employment and to further postgraduate (doctoral) study  
**Level in country of origin:** Postgraduate

**RECOMMENDED RECOGNITION** based on structural comparison, excluding analysis of syllabi or assessment of learning outcomes:

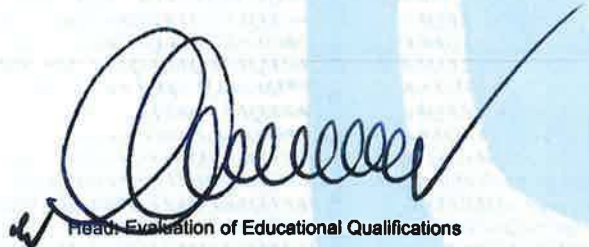
Qualification(s) described above	Closest comparable South African qualification / qualification type	NQF Level
(1)	<b>Bachelor of Technology: Forestry</b>	7
(2)	<b>Master of Science: Geo-Informatics</b>	8

**Proviso(s) / comment(s):** Professional practice as a Natural Scientist is subject to registration with the SA Council for Natural Scientific Professions, who is not in any way bound by this evaluation.

The issue of this Certificate of Evaluation does not necessarily confirm the authenticity of qualification documents. Although steps are taken to verify authenticity when documents are obviously suspect, recipients of this certificate are advised to insist on original qualification documents and/or have the authenticity of these verified by awarding bodies. Contact details can normally be provided by the SAQA.



Evaluator: 0090326-0001/1/MW1



Head, Evaluation of Educational Qualifications

2009-04-02

# Manda Hinsch

## Partner / Principal Scientist



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

### Specialisation

Project management and coordination of environmental impact assessments, environmental management programme, water use licence applications and specialist inputs for mining and industrial projects. Water quality management, water allocation, water use efficiency; waste management, policy development; policy implementation, water resource management.

### Expertise

Manda Hinsch has been involved in the water sector field for the past 34 years. Her expertise includes:

- conducting processes to obtain water and environmental authorisations, including the associated public participation processes;
- thorough and in depth understanding of the South African water legislation; National Water Act (1998) associated with links to the Water Act of 1956;
- water reform strategies and reallocation of water. Development of policies for implementing water allocation reform (WAR) in South Africa with associated pilot implementation;
- evaluation of impacts and management through the issuing of Water Use Authorisations and the management of hazardous and solid waste for industrial, mining water and waste water systems;
- implementation and policy development in water and related fields particular focus on water quality management and management of water quality in urban and informal areas;
- development of waste management strategies;
- institutional development in the water sector- establishment of Catchment Management Agency;
- ability to contribute towards research projects by participation in Steering Committees, e.g. Development of Classification System, 2010 Water Quality Standards etc.;
- development and implementation of water and environmental legislation and policy;
- surface water, water quality, specialist studies including monitoring protocols and plans;
- annual water monitoring studies and small towns water reconciliation studies;
- development and implementation of policy and strategy on pollution from urban areas.

### Employment

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

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# Manda Hinsch

Partner / Principal Scientist

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## Publications

IWRM Implementation in South Africa: Redressing Past Inequities and Sustaining Development with a View to the Future. World Bank Institute, Washington, DC. Modelling runoff and diffuse pollution loads in urban areas. 1999. Gedruckte Ausgabe. 291.  
Selected publications and contribution to professional reports, and study tours

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## Languages

English – read, write, speak (Excellent)  
Afrikaans – read, write, speak (Excellent)



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# Manda Hirsch

Partner / Principal Scientist

## Publications

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

# Manda Hirsch

Partner / Principal Scientist

## Key Experience: Integrated water- and environmental management

Location: All Days  
 Project duration & year: 5 months 2017  
 Client: Universal Coal  
 Name of Project: Berenice Review of Environmental Documents  
 Project Description: Mine in process of obtaining Environmental Authorisation. SRK requested to review the documents and ensure process compliance by the appointed EAPS  
 Job Title and Duties: Project Manager and Document Reviewer  
 Value of Project: R300K

Location: Northern Gauteng  
 Project duration & year: 8 months, 2016  
 Client: Department of Public Works  
 Name of Project: 10 WWTW upgrades  
 Project Description: The primary objectives of this study were:
 

- To address poor performance of 9 waste water treatment plants and one water treatment plant. These plants have a history of poor green drop scores for various reasons.
- The project entailed the upgrading of the works to comply with regulations.
- This included the application of Water Use Licences and Environmental Authorisations where applicable

 Job Title and Duties: Specialist Water and Environmental Consultant  
 Value of Project: R2000K

Location: Gauteng  
 Project duration & year: 5 months, 2016  
 Client: DPW WCDM  
 Name of Project: Assessment of Water Distribution Infrastructure and Development of Water Conservation and Demand Management at the 6 Correctional Services Facilities in Gauteng  
 Project Description: The primary objectives of this study were:
 

- The identification and then implementation of Water Conservation and Demand Management Measures,
- The identification of Water Efficiency Measures
- Development of Water Efficiency Strategy

 Job Title and Duties: Specialist Water Consultant and Project Manager  
 Value of Project: R1800K

Location: Ekurhuleni  
 Project duration & year: 9 months, Sept 2016  
 Client: Ekurhuleni Metro  
 Name of Project: Upgrading of the Boksburg Lake  
 Project Description: The rehabilitation of the Boksburg Lake with the associated application for Water and Environmental Authorisations. Various options for rehabilitation designs were to be developed. A catchment water quality monitoring programme was developed and followed. Extensive public participation is required beyond what legislation requires.  
 Job Title and Duties: Environmental Authorisation and Extensive Public Participation Management and implementation  
 Value of Project: R2 800K

# Manda Hinsch

Partner / Principal Scientist

## Key Experience: Integrated water- and environmental management

Location:	Emlahleheni
Project duration & year:	2014 -2016
Client:	Universal Coal
Name of Project:	Environmental Authorisation and EMP amendment for the Roodekop and NCC project
Project Description:	<p>The New Clydesdale Colliery (NCC) Mining Right Area previously owned by Exxaro Coal Mpumalanga (Pty) Ltd. was bought by Universal Coal PLC. It was proposed to expand the approved Roodekop opencast mining area onto the Farm Diepspruit, (previously NCC). As such it was required to undertake an application for Environmental Authorisation prior to the commencement of construction activities. It is proposed to establish an opencast mining area of approximately 150 ha on the Farm Diepspruit, Farm 41 IS. Most associated infrastructure exists and the proposed development will link into the existing infrastructure network. Project included the following:</p> <ul style="list-style-type: none"> <li>• Specialist management and review of specialist studies. Compilation of application process for the authorisation in terms of the NEMA EIA Regulations;</li> <li>• Consolidated Scoping Report with the inclusion of the Roodekop extension area;</li> <li>• Consolidated Environmental Impact Assessment Report with the inclusion of the Roodekop extension area; and</li> <li>• Consolidated Environmental Management Programme with the inclusion of the Roodekop extension area.</li> <li>• Compilation of application process for the authorisation in terms of Section 102 of the MPRDA; and</li> <li>• Stakeholder engagement in terms of the NEMA, NEMWA, MPRDA and NWA requirements, including of advertisements in two local/regional newspapers.</li> </ul>
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R1000K
Location:	Mbombela LM
Project duration & year:	8 months (2014 -2015)
Client:	IZUSA Transport
Name of Project:	S24 G Application
Project Description:	<p>The primary objectives of this study were:</p> <p>Various activities were undertaken prior to obtaining authorisation. Application was made to MDARDLEA for a Section 24 G. Public partition was also undertaken</p>
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R500K
Location:	Eastern Cape
Project duration & year:	18 months (2013 – 2015)
Client:	BVI Consulting
Name of Project:	Skoenmakers River Rehabilitation
Project Description:	Public Consultation, Environmental Authorisation from DARD and DWS for upgrading of River Bridges and rehabilitating the eroded rivers.
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R100000K

# Manda Hinsch

Partner / Principal Scientist

## Key Experience: Integrated water- and environmental management

Location:	Mbombela LM
Project duration & year:	8 months (2013 – 2014)
Client:	Aurecon
Name of Project:	Water Requirements and Availability Reconciliation Strategy for the Mbombela LM
Project Description:	The primary objectives of this study were: <ul style="list-style-type: none"> <li>• To address the growing water demands as well as the water quality problems experienced in the catchment;</li> <li>• To assess the current water availability and water deficit/surplus;</li> <li>• To identify resource management and development options, and</li> <li>• To recommend and sequence reconciliation interventions, both management and structural.</li> </ul>
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R1000K
Location:	Vlakfontein, Mpumalanga
Project duration & year:	(2012 – 2016)
Client:	African Exploration, Mining and Finance Company
Name of Project:	Environmental Authorisation for EMP Amendment, IWULA and EIA for the Vlakfontein Phase 2 Coal Mining Area
Project Description:	The primary objectives of this study were: <ul style="list-style-type: none"> <li>• To conduct an investigation of the area to be affected;</li> <li>• To undertake the relevant specialist studies that were required to undertake the EIA, IWULA and EMP process;</li> <li>• Conclusion of the processes to obtain the respective authorisations</li> <li>• To conduct public participation with interested and affected parties including the authorities;</li> </ul>
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R2500K
Location:	Chaneng Area, Rustenburg
Project duration & year:	2012
Client:	Royal Bafokeng Platinum
Name of Project:	Styl drift # 2 Shaft Environmental Authorisations
Project Description:	The primary objectives of this study were: <ul style="list-style-type: none"> <li>• To conduct an investigation of the area to be affected;</li> <li>• To undertake the relevant specialist studies that were required to undertake the EIA, IWULA and EMP process;</li> <li>• Conclusion of the processes to obtain the respective authorisations</li> <li>• To conduct public participation with interested and affected parties including the authorities</li> </ul>
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R2000K
Location:	Limpopo
Project duration & year:	12 months
Client:	Department of Environment Affairs
Name of Project:	Licensing of 64 Un-licensed Municipal Waste Disposal Facilities in 2013/14 Fiscal Year
Project Description:	To conduct the Environmental Impact Assessment (EIA) process and manage the Waste Management Licence (WML) applications for various municipal waste disposal facilities located in Limpopo. 6 Sites were allocated of which Project Management and Execution was undertaken
Job Title and Duties:	EAP and Specialist Environmental Consultant
Value of Project:	R700K

# Manda Hinsch

Partner / Principal Scientist

## Key Experience: Integrated water- and environmental management

Location: Gauteng West Rand  
 Project duration & year: 18 months (2011 – 2012)  
 Client: West Rand District Council  
 Name of Project: Preparation and development of a feasibility study for the water conservation and demand management strategy for the West Rand

Project Description: This project has been motivated in terms of:

- Reconciling supply and future demand
- Water resources and environmental protection
- Financial viability for water services delivery
- Postponing capital infrastructure requirements
- Threat posed at the aim of achieving sustainable and affordable services delivery to low income areas
- The increase loss of income to municipalities and
- The increase in the direct cost of distribution losses

Job Title and Duties: Specialist Consultant  
 Value of Project: R700K

Location: Nkomati and Mputo Basins  
 Project duration & year: 22 months, 2009- 2011  
 Client: PRIMA, TPTC  
 Name of Project: Progressive Realisation of the Incu Maputo Agreement, Development of a Disaster management Plan for the catchments  
 Project Description: Development of a water disaster management plan for the two catchments. The objective of the assignment was to prepare sets of comprehensive disaster preparedness, implementation and management plans, protocols and decision support systems for each of the identified basins to mitigate the possible effects of floods, droughts and major pollution accidents.

Job Title and Duties: Leading Consultant in the team for the Water Quality Component  
 Value of Project: R5 800K

Location: Limpopo and Mpumalanga  
 Project duration & year: 24 Months 2009 -2011  
 Client: DWA  
 Name of Project: Northern Regions Small Towns Water Reconciliation Study  
 Project Description: Development of water reconciliation options for small towns, including assessing impacts of water conservation

Job Title and Duties: Specialist Environmental Consultant  
 Value of Project: R8000K

Location: Mogalakwena Municipality  
 Project duration & year: 18 months, Jan 2008 – July 2009  
 Client: Mogalakwena Municipality  
 Name of Project: Environmental Authorisation for the pipeline for bulk water supply.  
 Project Description: Obtaining an environmental authorisation for the bulk water supply pipeline from Flag Bosheillo dam to the municipality from the relevant authority. Specialist studies for the project included biodiversity and aquatic evaluations which were performed by specialists in this field

Job Title and Duties: Project Manager and technical advisor  
 Value of Project: R600K



**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 OF EAP 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**

**Environmental Authorisation for the proposed Relocation of the Bulk Chemical Storage Facility at Anglo American Platinum's Rustenburg Base Metals Refiners (RBMR).**

**1. Details of EAP**

**Environmental Assessment Practitioner (EAP):<sup>1</sup>**

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s) (if any)

SRK Consulting (Pty) Ltd

Ndomupei Masawi

P O Box 35290, Menlo Park

0102

012 361 9812

[nmasawi@srk.co.za](mailto:nmasawi@srk.co.za)

EAPASA Reg Number: 2020/401 and SACNASP Reg Number: 400045/14

Cell:

082 379 5716

Fax:

012 361 9921

Project Consultant:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

SRK Consulting (Pty) Ltd

Ndomupei Masawi

P O Box 35290, Menlo Park

012 361 9812

[nmasawi@srk.co.za](mailto:nmasawi@srk.co.za)

Cell:

082 379 5716

Fax:

012 361 9921



Together we move North West forward.



## 2. Declaration by Environmental Assessment Practitioner

I, Ndomupe Masawi ( Name of person representing EAP) of SRK Consulting (Pty) Ltd (name of company) declare that;

- I act as the independent environmental practitioner 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
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, 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 will take into account, to the extent possible, the matters listed in Regulation 18 of the regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the 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;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- **I will keep a register of all interested and affected parties that participated in a public participation process; and**
- **I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not**
- **all the particulars furnished by me in this form are true and correct;**
- ***will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and***
- **I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of section 49B (2) of the Act.**

## 3. Disclosure of Vested Interest (delete whichever is not applicable)

*Details of EAP and Declaration of Interest  
EIA Regulations, 2014*



- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014;

- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~

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*[Handwritten Signature]*

Signature of the Environmental Assessment Practitioner

SRK Consulting (Pty) Ltd

Name of company

2020/12/04

Date

*[Handwritten Signature]*

Signature of the Commissioner of Oaths

2020/12/04

Date

*[Handwritten Signature]*

Designation

**Werner Nolte**  
Kommissaris van Ede  
Commissioner of Oaths - Ex Officio  
Praktiserende Prokureur  
Practising Attorney  
Building A, Menlyn Woods Office Park  
291 Sprite Ave, Faerle Glen, Pretoria

Official stamp:

