

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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Senior Environmental Scientist

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.

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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

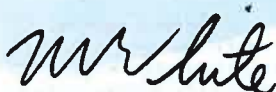
Minimum entry requirement: A relevant first (bachelor's) degree such as (1) above
Minimum duration of study: One year
Type of study: Academic (university)
Field of Study: Physical, Mathematical, Computer and Life Sciences
Programme requirements: Coursework and examination; project and thesis
Eligibility 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:

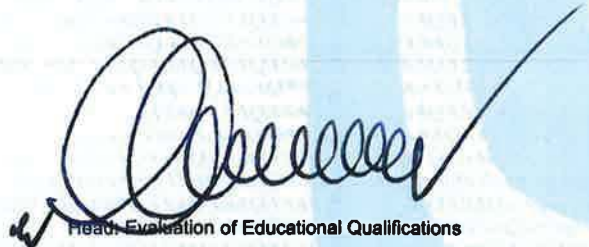
Qualification(s) described above	Closest comparable South African qualification / qualification type	NQF Level
(1)	Bachelor of Technology: Forestry	7
(2)	Master of Science: Geo-Informatics	8

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



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

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

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

Manda Hinsch

Partner / Principal Scientist

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

Languages

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

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: The New Clydesdale Colliery (NCC) Mining Right Area previously owned by Exxaro Coal Mpumalanga (Pty) Ltd. was bought by Universal Coal PLC. It was proposed to expand the approved Roodekop opencast mining area onto the Farm Diepspruit, (previously NCC). As such it was required to undertake an application for Environmental Authorisation prior to the commencement of construction activities. It is proposed to establish an opencast mining area of approximately 150 ha on the Farm Diepspruit, Farm 41 IS. Most associated infrastructure exists and the proposed development will link into the existing infrastructure network. Project included the following:

- Specialist management and review of specialist studies. Compilation of application process for the authorisation in terms of the NEMA EIA Regulations;
- Consolidated Scoping Report with the inclusion of the Roodekop extension area;
- Consolidated Environmental Impact Assessment Report with the inclusion of the Roodekop extension area; and
- Consolidated Environmental Management Programme with the inclusion of the Roodekop extension area.
- Compilation of application process for the authorisation in terms of Section 102 of the MPRDA; and
- Stakeholder engagement in terms of the NEMA, NEMWA, MPRDA and NWA requirements, including of advertisements in two local/regional newspapers.

Job Title and Duties: Specialist Environmental Consultant
 Value of Project: R1000K

Location: Mbombela LM
 Project duration & year: 8 months (2014 -2015)
 Client: IZUSA Transport
 Name of Project: S24 G Application
 Project Description: The primary objectives of this study were:
 Various activities were undertaken prior to obtaining authorisation. Application was made to MDARDLEA for a Section 24 G. Public partition was also undertaken

Job Title and Duties: 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"> • To address the growing water demands as well as the water quality problems experienced in the catchment; • To assess the current water availability and water deficit/surplus; • To identify resource management and development options, and • To recommend and sequence reconciliation interventions, both management and structural.
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	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"> • To conduct an investigation of the area to be affected; • To undertake the relevant specialist studies that were required to undertake the EIA, IWULA and EMP process; • Conclusion of the processes to obtain the respective authorisations • To conduct public participation with interested and affected parties including the authorities;
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	R2500K
Location:	Chaneng Area, Rustenburg
Project duration & year:	2012
Client:	Royal Bafokeng Platinum
Name of Project:	Styldrift # 2 Shaft Environmental Authorisations
Project Description:	The primary objectives of this study were: <ul style="list-style-type: none"> • To conduct an investigation of the area to be affected; • To undertake the relevant specialist studies that were required to undertake the EIA, IWULA and EMP process; • Conclusion of the processes to obtain the respective authorisations • To conduct public participation with interested and affected parties including the authorities
Job Title and Duties:	Specialist Environmental Consultant
Value of Project:	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: <ul style="list-style-type: none"> • 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