

Manda Hinsch

Principal Scientist / Partner


Profession

Water and Environmental Scientist

Education

BSc (Hons), Water Utilisation, University of Pretoria, 1993

BSc, Biochemistry & Chemistry, University of Johannesburg (former RAU), 1982

Registrations/

Pr Sci Nat (South Africa), 400164/09

Affiliations

Member, FWISA

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 member of various steering committees, e.g. development of classification system, 2010 water quality standards etc. and basic environmental assessments;
- extensive experience in the environmental and water legislation both in policy development and implementation and environmental (hydrology and water quality) investigation for nuclear sites;
- surface water, water quality, specialist studies including monitoring protocols and plans;
- annual water monitoring studies and small towns water reconciliation studies;
- steering and guiding of research projects in the water field through the water research commission;
- development and implementation of policy and strategy on pollution from urban areas.

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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

Publications

Selected publications and contribution to professional reports, and study tours

Languages

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

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Key Experience: Integrated water and environmental management

Location:	Northern Gauteng
Project duration & year:	8 months (2016)
Client:	Department of Public Works
Name of Project:	10 WWTW upgrades
Project Description:	<p>The primary objectives of this study were:</p> <ul style="list-style-type: none"> • 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:	R1000K
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:	<p>The primary objectives of this study were:</p> <ul style="list-style-type: none"> • 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:	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:	Limpopo
Project duration & year:	12 months
Client:	Department of Environmental Affairs
Name of Project:	Proposal for the licensing of 64 unlicensed municipal waste disposal facilities in 2013/14 fiscal year
Project Description:	To conduct the Environmental Impact Assessment (EIA) process and manage the Waste Management License (WML) applications for various municipal waste disposal facilities located in Limpopo
Job Title and Duties:	EAP and Specialist Environmental Consultant
Value of Project:	R700K

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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: 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

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:

- 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

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Key Experience: Integrated water and environmental management

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:

- 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:

- 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 and Mpumalanga
 Project duration & year: 24 Months
 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: 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

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Key Experience: Integrated water and environmental management

Location:	Phalaborwa
Project duration & year:	Ongoing , 2011, 2014
Client:	Foskor Mining Division
Name of Project:	Water Use Licence Audit and IWWMP Update
Project Description:	Water Use licence audit on the mine in terms of compliance with all licensing conditions. Updating of the IWWMP
Job Title and Duties:	Project Auditor
Value of Project:	R300K
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:	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