

# KHUME CHAMIE MTSHWENI



MSc Aquatic  
health:  
University of  
Johannesburg

## Personal Details

**Residential Address**  
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**ID Number**  
9408065020089

**Date of Birth**  
06.08.1994

**Languages**  
English, Afrikaans,  
IsiNdebele, SiSwati,  
Sepedi, Setswana,  
Sesotho, IsiXhosa, IsiZulu

**Driver's license**  
C10

## EXECUTIVE SUMMARY

I am an enthusiastic, highly motivated and well-spoken individual who has good interpersonal and communication skills. I am an exceptional multitasker and problem solver that handles challenges well. The environment and the maintenance of its integrity is one of my passions.

I was exposed to environmental monitoring and consultancy in 2017, where I performed surface water monitoring, ground water monitoring, aquatic biomonitoring and noise surveys. Since 2017; I have acquired skills in laboratory analysis (toxicity testing), field work (Terrestrial, Wetland and Aquatic surveys), analytics, and compiling ecological reports.

Being innovative, curious and striving for excellence has aided me in analysing and understanding the various complexities that lie within the environment.

## WORK EXPERIENCE

### Freshwater and Terrestrial Ecologist

*The Biodiversity Company ~ 2023 – Current*

#### Responsibilities:

- Conducts assessments (fieldwork).
- Environmental data analysis and interpretation.
- Compilation of Specialist reports (Scoping, Baseline and Impact assessment reports).
- Manage projects and clients.
- Compile peer reviews.
- Compile proposals.
- Market company services.
- Develop and initiate new products and skills.

### Wetland and Terrestrial Ecologist

*Milnex CC ~ 2021 – 2023*

#### Responsibilities:

- Environmental data analysis and interpretation
- Report Writing
- Manage sampling equipment
- Managing Ecology department
- Faunal and Floral permit applications
- Public participation
- Terrestrial Biodiversity assessment (Faunal and Floral assessments); and
- Wetland Delineation and Risk assessments for inclusion in Environmental Authorization and Water Use Licensing.

### Graduate intern (Biodiversity)

*Golder Associates ~ 2017 – 2020*

#### Responsibilities:

- Environmental data analysis and interpretation
- Manage sampling equipment
- Conducting laboratory experiments and exposures
  - Toxicity testing
  - Sediment analysis
- Surface water monitoring
- Ground water monitoring
- Aquatic biomonitoring
  - Water
  - Sediment

- Fish
- Aquatic macroinvertebrates
- Diatoms
- Noise monitoring
- Dust fallout monitoring
- Wetland delineation

### **Laboratory demonstrator**

*University of Johannesburg ~ 2016 – 2017*

#### **Responsibilities:**

- Prepare and assess laboratory experiments
- Present and demonstrate laboratory experiments to students
- Assisted in marine ecology excursions (sandy vs. rocky shores, estuaries and mangrove assessment)
  - St Lucia wetland park Kwa-Zulu Natal (Including terrestrial ecology)
  - Inhaca Island Mozambique
  - Hong Kong

### **Volunteer**

*Marble Hall Animal Hospital ~ 2013 – 2014*

- Assist in cat and dog spaying
- Assist in game capture and relocation
- General House-keeping.

## **EDUCATIONAL QUALIFICATIONS**

### **Tertiary**

*Postgraduate (2018-2020)*

**Institution:** University of Johannesburg, South Africa  
**Degree:** Masters of Science  
**Course:** Aquatic health  
**Project topic:** The application of a sediment risk approach for site evaluation in an industrial complex (Mpumalanga)

### **Tertiary**

*Postgraduate (2017)*

**Institution:** University of Johannesburg, South Africa  
**Degree:** Bachelor of Science Honours  
**Course:** Zoology  
**Project topic:** Comparison of the Phytotoxkit-F and Ostracodtoxkit-F bioassays in assessing sediment toxicity along the Taaibosspruit

### **Tertiary**

*Undergraduate (2013-2016)*

**Institution:** University of Johannesburg, South Africa  
**Degree:** Bachelor of Science  
**Course:** Environmental Sciences (Zoology and Physiology)

### **Secondary**

*High school (2008-2012)*

**Institution:** Hoerskool Ben Viljoen

## **SKILLS ACQUIRED**

### **Computer literacy**

Microsoft office  
 Statistical programs (Canoco and Primer)

QGIS

**Personal skills**

Problem Solving  
Communication Skill  
Resourcefulness  
Team and independent work  
Adapting to change  
Professionalism  
Self-management  
Positive work ethic

**AUTHORED & CO-AUTHORED**

Mtshweni K. C., Nel A., Shaddock B. F. (2017). Comparison of the Phytotoxkit-F and Ostracodtoxkit-F bioassays in assessing sediment toxicity along the Taaibosspruit. (Honours mini-thesis).

Mtshweni K. C., Nel A., Shaddock B. (2020). The application of a sediment risk approach for site evaluation in an industrial complex (Mpumalanga). (Masters dissertation).

Shaddock B. F., Volschenk C. M., Cloete Y. C., Mtshweni K. C. (2019). The development of a preliminary approached to sediment site evaluation and associated risk. Water Research Commission. Project No. K5/2754.

**PROFESSIONAL AFFILIATION**

**SACNASP:** Ecological Science (Candidate Natural Scientist)  
Registration Number: 138592

**COURSES**

Wetland introduction and Delineation course. (March 2021)..  
Wetland Legislation and Rehab Course (12 - 17 September 2022)

**REFERENCES**

-Percy Sehoale	-Wayne Jackson
-Environmental Assessment Practitioner	-Soil, Wetland and Hydropedology Specialist
-Milnex Environmental Consultants CC	-Eco-Assist Environmental Consultants
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