

## **CHERIE-LYNN MACK**

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Date of Birth: 05-08-1980

### **QUALIFICATIONS**

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PhD Environmental Biotechnology (Rhodes University), M.Sc Environmental Biotechnology with distinction (Rhodes University), B.Sc Hons. Biotechnology (Rhodes University), B.Sc Microbiology & Biochemistry (Rhodes University)

### **MEMBERSHIP**

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- The Water Institute of Southern Africa (WISA)

### **PROFESSIONAL EXPERIENCE**

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November 2009 – Present: Senior Environmental Consultant (Coastal & Environmental Services)

October 2008 – July 2009: Water Scientist (Golder Associates Africa)

January 2008 – June 2008: Postdoctoral Research student (Department of Microbiology, Stellenbosch University)

### **CONSULTING EXPERIENCE**

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**October 2009 – present Senior Environmental Consultant, Coastal & Environmental Services**

As a senior consultant, my role in the company is to manage and provide input into the compilation of Environmental Impact Assessments for a wide variety of clients, and for a wide variety of developments. To date, these projects have included:

#### **Renewable Energy Projects**

- Ngqamakhwe Renewable Energy Facility EIA
- Ncora Renewable Energy Facility EIA
- Qunu Renewable Energy Facility EIA
- Thomas River Renewable Energy Facility EIA
- Chaba Wind Energy EIA
- Lushington Park Wind Energy Facility EIA

#### **Wastewater Specialist Assessments:**

- Wastewater Specialist Impact Assessment for Qolora Aquaculture Zone EIA
- All Saints Wastewater Treatment Works, Wastewater Specialist Impact Assessment
- Project Manager and Waste Specialist: Scoping and Environmental Impact assessment for Sunningdale Dairy Processing Facility

#### **Surface and Groundwater Specialist Assessments:**

- Surface Water and Groundwater Quality Annual Report (2010), for Kenmare Mining, Mozambique
- Project Manager and Surface Water Quality Specialist: Surface and groundwater quality monitoring program for the East London Industrial Development Zone
- Surface water specialist information gap analysis for LIFEX coal mine extension project for AngloCoal.
- Water quality trainee: Comprehensive reserve determination for the Lower and Middle Vaal Water Management Areas (DAAF).

- Water quality trainee: Intermediate reserve determination of the Crocodile (West) and Marico Water Management Areas (DWAF)

**Other:**

- TNPA Foreshore Reclamation Project EIA, Port of East London
- Eskom Distribution Power line EIAs in the Transkei area (x3)
- The linear flow channel reactor for oxidation of sulphide in semi-treated acid mine drainage for the Water Research Commission (WRC)
- Construction and operation of an Integrated Managed Passive (IMPI) demonstration scale acid mine drainage treatment plant for BHP Billiton
- Metal removal using sulphate reducing bacteria (SRB) from acid mine drainage for Landau Colliery (AngloCoal)

**RESEARCH & TEACHING EXPERIENCE**

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I have had my research published in peer-reviewed journals and have presented at various international conferences. A full list of publications is available upon request. My area of research is environmental biotechnology, with emphasis on industrial wastewater treatment technologies, particularly from the mining sector.