

## MAGNUS VAN ROOYEN



<b>Profession</b>	PRINCIPAL ENVIRONMENTAL SCIENTIST
<b>Position in Firm</b>	EXECUTIVE ASSOCIATE
<b>Area of Specialisation</b>	ENVIRONMENTAL IMPACT ASSESSMENTS, SCOPING REPORTS, PRELIMINARY ENVIRONMENTAL ASSESSMENT, MINING RIGHT AND PERMIT APPLICATIONS, ENVIRONMENTAL CONTROL OFFICER DUTIES; ENVIRONMENTAL MANAGEMENT PROGRAMMES, STRATEGIC ENVIRONMENTAL ASSESSMENTS, WILDLIFE MANAGEMENT PLANS, ENVIRONMENTAL EDUCATION PROGRAMS AND AGRICULTURAL DEVELOPMENT PLANS.
<b>Qualifications</b>	BSc (Botany and Zoology), BSc (Hons), Post Graduate Certificate in Education (Science and Biology), MPhil. (Environmental Management)
<b>Years of Experience</b>	14
<b>Years with Firm</b>	13

### SUMMARY OF EXPERIENCE

Mr Van Rooyen is currently an Executive Associate and the Regional Head of the Environmental Division of a National Consulting Engineering Firm in South Africa. He is located in Pietermaritzburg, KwaZulu-Natal.

In addition to holding a Masters degree in Environmental Management, he also holds a BSc degree in Botany and Zoology, an Honors Degree in Botany and a Post Graduate Certificate in Education. He has 13 years' experience in projects involving Environmental Impact Assessments in various developmental sectors (Mining and Agricultural Sector, National Roads, Pipelines, Dams, and Residential Developments), conducting of Specialist Biodiversity Assessments associated with Environmental Impact Assessments and Project Feasibility Studies. He has experience in the compilation of Resettlement Policy Framework Plans associated with infrastructure development projects. Mr van Rooyen has experience in working on various private and public sectors as well as rural and urban environments in various countries.

Mr Van Rooyen's expertise lies within the large infrastructure development and mining sector where he has gained extensive exposure to all the aspects of projects from the pre-feasibility, environmental impact assessment and implementation and monitoring stages. In addition, he has conducted Due Diligence Assessments as well as Environmental Compliance Monitoring and Management of a variety of infrastructure development, energy and mining sites.

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## EDUCATION

**Date (from – to):** 1995-1998  
**Degree/Institution:** BSc – Botany & Zoology (Stellenbosch University)  
**Date (from – to):** 1999  
**Degree/Institution:** Special Student - Department of Agriculture (Stellenbosch University)  
**Date (from – to):** 2001  
**Degree/Institution:** BSc Honnours – Botany (Stellenbosch University)  
**Date (from – to):** 2002  
**Degree/Institution:** Post Graduate Certificate in Education (Stellenbosch University)  
**Date (from – to)** 2003 – 2005  
**Degree/Institution:** Masters Degree in Environmental Management (Stellenbosch University)

**Other Training:** **2008 – 2009** Jeffares and Green Consulting Engineers and Environmental Consultants Accelerated Development Programme  
**2014:** Wetland Delineation and Modeling Course – Rhodes University  
**2015:** Wetland Buffer Determination Course – Water Research Commission

## EMPLOYMENT RECORD

**Date (from – to)** 1999  
**Location** Witley Bay, Northumberland, United Kingdom  
**Employer** Marden Bridge Middle School  
**Position(s)** Physical Education Teacher  
**Description** Physical Educator associated with the Marden Bridge Middle School Sport Centre.

**Date (from – to)** 2000  
**Location** Bradenton, Florida, USA  
**Employer** Gene's Citrus Ranch  
**Position(s)** Farm Manager  
**Description** Management of the day to day operations of an export citrus farm

**Date (from – to)** 2001 – 2002  
**Location** Stellenbosch, Western Cape, South Africa  
**Employer** Paul Roos Gymnasium  
**Position(s)** Biology Teacher  
**Description** Teaching the South African Biology curriculum to high school pupils.

**Date (from – to)** 2002 – 2005  
**Location** Stellenbosch, Western Cape, South Africa  
**Employer** Department of Botany and Zoology, Stellenbosch University

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<b>Position(s)</b>	Junior Lecturer in Botany
<b>Description</b>	Lectured the Botany practical component of the first-year Natural Science Degree.
<b>Date (from – to)</b>	2002 – 2005
<b>Location</b>	Stellenbosch, Western Cape, South Africa
<b>Employer</b>	Department of Conservation Ecology, University of Stellenbosch
<b>Position(s)</b>	Biodiversity Researcher
<b>Description</b>	Conducted field work, sampling, laboratory work and logistics associated with two projects within the Conservation Ecology Department
<b>Date (from – to)</b>	2006 - 2007
<b>Location</b>	Pietermaritzburg, KwaZulu-Natal, South Africa
<b>Employer</b>	Jeffares & Green (Pty) Ltd Consulting Engineers
<b>Position(s)</b>	Environmental Scientist
<b>Description</b>	Conducted field work, complete Applications for Environmental Authorisation (Basic Assessments and Full Scoping and EIAs)
<b>Date (from – to)</b>	2007 – 2010
<b>Location</b>	Pietermaritzburg, KwaZulu-Natal, South Africa
<b>Employer</b>	Jeffares & Green (Pty) Ltd Consulting Engineers
<b>Position(s)</b>	Senior Environmental Scientist
<b>Description</b>	Managing a team of scientists conducting field work, completing Applications for Environmental Authorisation (Basic Assessments and Full Scoping and EIAs) Conducting specialist wetland, biodiversity and ecological assessments for a range of infrastructure projects.
<b>Date (from – to)</b>	2011 - present
<b>Location</b>	Pietermaritzburg, KwaZulu-Natal, South Africa
<b>Employer</b>	JG Afrika (Pty) Ltd (previously Jeffares & Green (Pty) Ltd)
<b>Position(s)</b>	Principal Environmental Consultant
<b>Description</b>	Responsible for the management and operation of the Environmental Business unit. Conducting specialist wetland, biodiversity and ecological assessments for a range of infrastructure projects.

## SPECIFIC EXPERIENCE

### *Port and Rail Projects*

<b>Name of Project:</b>	<b>Environmental Impact Assessment for the proposed expansion of Pier 1 within the Port of Durban</b>
<b>Client:</b>	Transnet SOC
<b>Project duration/date:</b>	January 2014 – December 2016
<b>Job Title and Duties:</b>	Project Manager Project management duties associated with the Application for Environmental Authorisation and associated specialist studies for the

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proposed expansions to the Pier 1 in the Port of Durban. The Project Management Duties also included the management of the programme, cashflows, invoicing and contractual matters relating to the NEC3 contract.

**Name of Project:** **Environmental Impact Assessment for the proposed Locomotive Turn Table on the coal line in the Port of Richards Bay**  
**Client:** Transnet SOC  
**Project duration/date:** April 2010 to December 2010  
**Job Title and Duties:** Project Manager  
Project management duties associated with the Application for Environmental Authorisation and associated specialist studies for the proposed expansions to the Locomotive Turn Table in the Port of Richards Bay. The Project Management Duties also included the management of the programme, cashflows, invoicing and contractual matters relating to the NEC3 contract.

**Name of Project:** **Environmental Impact Assessment for the proposed additional rail line into the Richards Bay Coal Terminal in the Port of Richards Bay**  
**Client:** Transnet SOC  
**Project duration/date:** March 2011 to October 2011  
**Job Title and Duties:** Project Manager  
Project management duties associated with the Application for Environmental Authorisation and associated specialist studies for the proposed expansions to the additional rail line into the Richards Bay Coal Terminal in the Port of Richards Bay. The Project Management Duties also included the management of the programme, cashflows, invoicing and contractual matters relating to the NEC3 contract.

**Name of Project:** **Environmental Impact Assessment for the proposed Ore Handling Facility near the village of Konta, Guinea, West Africa**  
**Client:** Bellzone  
**Project duration/date:** Augusts 2012 to February 2013  
**Job Title and Duties:** Project Manager  
Project management duties associated with the Application for Environmental Authorisation and associated specialist studies for the proposed expansion of the Ore Handling Facility near the village of Konta, Guinea, West Africa. The Project Management Duties also included the management of the programme, cashflows, invoicing and contractual matters relating to the General Conditions of Contract (GCC).

**Name of Project:** **Environmental Monitoring Duties for all the RME construction and maintenance projects within the Port of Durban**  
**Client:** Transnet SOC  
**Project duration/date:** September 2017  
**Job Title and Duties:** Environmental Management of the construction and maintenance of structures and infrastructure within the Port of Durban for a duration of 3 years. The duties included conducting daily construction monitoring for the

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various projects as well as the submission of monthly audit reports to the client.

**Name of Project:** **Feasibility Study for the expansion of the cement handling facilities in Lichtenburg and Delmas**

Client: Jeffares & Green (Pty) Ltd

Project Duration/date: August 2010

Job Title and Duties: Environmental component of the Feasibility Study for the expansion of the cement handling facilities. Duties included legal compliance with the Environmental Management suite of legislation as well as addressing the biodiversity aspect of the project.

**Name of Project:** **Environmental Impact Assessment for the proposed De Jaegersdrift Coal Siding**

Client: De Jaegersdrift Colliery

Project duration/date: August 2008

Job Title and Duties: Environmental Impact Assessment for the development of a coal siding at the existing De Jaegersdrift railway siding, near Dundee. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental Impact Assessment for the proposed Glencoe Coal Siding**

Client: Miranda Minerals

Project duration/date: June 2008

Job Title and Duties: Environmental Impact Assessment for the reopening and expansion of a coal siding at the Glencoe railway station in Glencoe. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

### ***Mining Projects***

**Name of Project:** **Environmental and Social Impact Assessment for the Thubelihle Colliery near Glencoe**

Client: Thubelihle Mining

Project duration/date: July 2006

Job Title and Duties: Project Manager  
Environmental and Social Impact Assessment for the mining right for the Thubelihle Colliery near Glencoe. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the Uithoek Colliery near Glencoe**

Client: Miranda Minerals

Project duration/date: September 2006

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Job Title and Duties: Project Manager  
Environmental and Social Impact Assessment for the mining right for the Uithoek Colliery near Glencoe. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the Burnside Colliery near Glencoe**

Client: Miranda Minerals

Project duration/date: July 2007

Job Title and Duties: Project Manager  
Environmental and Social Impact Assessment for the mining right for the Burnside Colliery near Glencoe. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the Rourke's Drift Coal Mine, near Dundee**

Client: Ultimate Goal (Pty) Ltd

Project duration/date: January 2008

Job Title and Duties: Project Manager  
Environmental and Social Impact Assessment for the mining right for the Ultimate Goal Colliery near Glencoe. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the Sesikhona Colliery near Dannhauser**

Client: Miranda Coal

Project duration/date: September 2010

Job Title and Duties: Project Manager  
Environmental and Social Impact Assessment for the mining right for the Sesikhona Colliery near Dannhauser. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the Afrimat Ladysmith Hard Rock Quarry**

Client: Afrimat

Project Duration/date: July 2010

Job Title and Duties: Project Manager  
Environmental and Social Impact Assessment for the mining right for the Afrimat Hard Rock Quarry near Ladysmith. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

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**Name of Project:** **Environmental and Social Impact Assessment for the Taylor's Halt Hard Rock Quarry**

Client: Canton Trading (Pty) Ltd

Project duration/date: June 2011

Job Title and Duties: Project Manager

Environmental and Social Impact Assessment for the mining right for the Taylor's Halt Hard Rock Quarry near Pietermaritzburg. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the uMtamvuna Hard Rock Quarry**

Client: South African National Roads Agency Limited

Project duration/date: July 2008

Job Title and Duties: Project Manager

Environmental and Social Impact Assessment for the mining right for the SANRAL Hard Rock Quarry near uMtamvuna. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the Amasundu Dolerite Quarry**

Client: Amasundu (Pty) Ltd

Project duration/date: June 2007

Job Title and Duties: Project Manager

Environmental and Social Impact Assessment for the mining right for the Amasundu Dolerite Quarry near Mtunzini. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Environmental and Social Impact Assessment for the Lodestone Magnetite Mine in Namibia**

Client: Lodesone (Pty) Ltd

Project duration/date: September 2011

Job Title and Duties: Project Manager

Environmental and Social Impact Assessment for the Lodestone Magnetite Mine in Namibia. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities. The duties also included the completion of the Environmental Rehabilitation Plan.

**Name of Project:** **Environmental and Social Impact Assessment for the expansion of the Konta Port Ore Loading Facility**

Client: Bellzone

Project duration/date: May 2013

Job Title and Duties: Project Manager

Environmental and Social Impact Assessment for the expansion of ore loading facility near the village of Konta in Guinea. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities. The duties also included the

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completion of the Asset Register associated with the Resettlement Action Framework.

**Name of Project:** **Environmental and Social Impact Assessment for the 80km of gravel haul road**

Client: Bellzone

Project duration/date: October 2013

Job Title and Duties: Project Manager

Environmental and Social Impact Assessment for the 80km of ore haul road from the mine at Forecaria to the loading facility near the village of Konta in Guinea. The duties included the management of the process, public participation and report compilation and submission to the relevant authorities.

**Name of Project:** **Performance Assessment and Monitoring audits for various mines**

Client: Afrimat, Miranda Coal, Midmar Cruhsers, Amasundu Gravel, Lancaster Quarries, Ballito Crushers, etc.

Project duration/date: Ongoing

Job Title and Duties: Conducting the Performance Assessment and Monitoring audits for various mining operations on an annual basis.

**Name of Project:** **Calculation and updates of the quantum for Financial Provision for various mines**

Client: Afrimat, Miranda Coal, Midmar Cruhsers, Amasundu Gravel, Lancaster Quarries, Ballito Crushers, etc.

Project duration/date: ongoing

Job Title and Duties: Conducting the calculation and updates of the quantum for Financial Provision for rehabilitation for various mines.

**Name of Project:** **Due diligence assessment for the sale of the Klipwal Gold Mine near Pongola**

Client: Miranda Minerals

Project duration/date: June 2009

Job Title and Duties: Environmental Lead

Due diligence and risk assessment associated with the sale of the Klipwal Gold Mine. The assessment considered the legislated requirements of the mining operations as well as the environmental liabilities and risks that must be considered during the sale.

**Name of Project:** **Due diligence assessment on the Swakop Uranium Mine on behalf of the South African Public Investment Corporation**

Client: Public Investment Corporation

Project duration/date: October 2016

Job Title and Duties: Environmental Lead

Due diligence and risk assessment associated potential risk associated with investment in the Swakop Uranium Mine by the South African Public Investment Corporation. The assessment considered the environmental liabilities and risks that the investors may be exposed to.



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## **Roads Projects**

**Name of Project:**            **Upgrading of the R30 between Beatrix Mine and Virginia**

Client:                                South African National Roads Agency Limited

Project duration/date:        September 2009

Job Title and Duties:        Project Manager

Environmental Impact Assessment for the upgrading of the R30 between Beatrix Mine and Virginia in the Free State. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:**            **Upgrading of the R30 between Glen Lyon and Brandfort**

Client:                                South African National Roads Agency Limited

Project duration/date:        September 2009

Job Title and Duties:        Project Manager

Environmental Impact Assessment for the upgrading of the R30 between Glen Lyon and Brandfort in the Free State. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:**            **National Road 3 – Chota Motala Road Interchange**

Client:                                South African National Roads Agency Limited

Project duration/date:        May 2010

Job Title and Duties:        Project Manager

Environmental Impact Assessment for the upgrading of the National Route 3 – Chota Motala Road Interchange in Pietermaritzburg. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:**            **National Road 3 – New England Road Interchange**

Client:                                South African National Roads Agency Limited

Project duration/date:        August 2007

Job Title and Duties:        Project Manager

Environmental Impact Assessment for the upgrading of the National Route 3 – New England Road Interchange in Pietermaritzburg. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:**            **National Route 3 – Epworth Road Interchange**

Client:                                South African National Roads Agency Limited

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Project duration/date: September 2011

Job Title and Duties: Project Manager  
Environmental Impact Assessment for the upgrading of the National Route 3 – Epworth Road Interchange in Pietermaritzburg. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 3 – Market Road Interchange**

Client: South African National Roads Agency Limited

Project Duration/date: July 2016

Job Title and Duties: Project Manager  
Environmental Impact Assessment for the upgrading of the National Route 3 – Market Road Interchange in Pietermaritzburg. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 2 – uMgeni Road Interchange**

Client: South African National Roads Agency Limited

Project duration/date: August 2010

Job Title and Duties: Project Manager  
Environmental Impact Assessment for the upgrading of the National Route 2 – uMgeni Road Interchange in Durban. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 2 – uMhlanga Interchange**

Client: South African National Roads Agency Limited

Project duration/date: July 2012

Job Title and Duties: Project Manager  
Environmental Impact Assessment for the upgrading of the National Route 2 – uMhlanga Interchange in Durban. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 2, section 27 – uThongati River to the Tongaat Toll Plaza**

Client: South African National Roads Agency Limited

Project duration/date: June 2012

Job Title and Duties: Project Manager  
Environmental Impact Assessment for the upgrading of the National Route 2, section 27 from the uThongati River to the Tongaat Toll Plaza in KwaZulu-Natal. Duties included the management of the EIA process including the

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public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 11, section 7 – Nkunzi River to Fort Mistake**

Client: South African National Roads Agency Limited

Project duration/date: September 2010

Job Title and Duties: Project Manager

Environmental Impact Assessment for the upgrading of the National Route 11, section 7 from the Nkunzi River to the Fort Mistake in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 3 – Key Ridge Viaduct**

Client: South African National Roads Agency Limited

Project duration/date: May 2012

Job Title and Duties: Project Manager

Environmental Impact Assessment for the upgrading of the National Route 3, Key Ridge Viaduct in KwaZulu-Natal. . Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 2 – Edwin Swales Interchange**

Client: South African National Roads Agency Limited

Project duration/date: October 2016

Job Title and Duties: Project Manager

Environmental Impact Assessment for the upgrading of the the National Route 2 – Edwin Swales Interchange in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: National Route 5, section 22 to 27**

Client: South African National Roads Agency Limited

Project duration/date: January 2008

Job Title and Duties: Project Manager

Environmental Impact Assessment for the upgrading of the National Route 5, section 22 to 27 in the Free State. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

***Pipeline Projects***

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**Name of Project: Mooi - Mpfana Bulk Water Supply Pipeline**

Client: uMgeni Water

Project duration/date: September 2012

Job Title and Duties: Project Manager

Environmental Impact Assessment for the construction of the Mooi – Mpfana Bulk Water Supply Pipeline in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: Bhekuzulu Rural Water Supply Scheme**

Client: Sukuma Consulting Engineers

Project duration/date: April 2016

Job Title and Duties: Project Manager

Environmental Impact Assessment for the construction of the Bhekuzulu Rural Water Supply Pipeline in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: Wembezi Rural Water Supply Scheme**

Client: JG Afrika (Pty) Ltd

Project duration/date: May 2017

Job Title and Duties: Project Manager

Environmental Impact Assessment for the construction of the Wembezi Rural Water Supply Pipeline in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: Manguzi Rural Water Supply Scheme**

Client: JG Afrika (Pty) Ltd

Project duration/date: June 2017

Job Title and Duties: Project Manager

Environmental Impact Assessment for the construction of the Manguzi Rural Water Supply Pipeline in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: Raising of the Nacala Dam**

Client: Millennium Challenge Account - Mozambique

Project duration/date: September 2012

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Job Title and Duties: Project Manager  
Environmental Impact Assessment for the upgrading and raising of the Nacala Dam in Mozambique. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:** **KwaHlokoHloko Rural Water Supply Scheme**

Client: MNA Consulting Engineers

Project Duration/date: July 2010

Job Title and Duties: Project Manager  
Environmental Impact Assessment for the construction of the KwaHlokoHloko Rural Water Supply Pipeline in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:** **Hillside Aluminium Smelter Desalination Plant**

Client: South 32

Project duration/date: March 2017

Job Title and Duties: Environmental Project Manager  
Environmental Screening Assessment for the establishment of a desalination plant to augment the production water supply to the Hillside Aluminium Smelter in Richards Bay, KwaZulu-Natal.

**Name of Project:** **Mozal Aluminium Smelter Desalination Plant**

Client: South 32

Project duration/date: July 2017

Job Title and Duties: Environmental Project Manager  
Environmental Screening Assessment for the establishment of a desalination plant to augment the production water supply to the Mozal Aluminium Smelter in Maputo, Mozambique. This included the management of the specialist studies associated with the feasibility study for the proposal.

**Name of Project:** **Camperdown Waste Water Treatment System**

Client: MNA Consulting Engineers

Project duration/date: June 20010

Job Title and Duties: Project Manager  
Environmental Impact Assessment for the construction of Camperdown Sanitation Project in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:** **KwaJobe Rural Water Supply Scheme**

Client: Jeffares & Green (Pty) Ltd

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Project duration/date: September 2012  
Job Title and Duties: Project Manager  
Environmental Impact Assessment for the construction of the KwaJobe Rural Water Supply Pipeline in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: Underberg Sanitation System**

Client: Sisonke District Municipality  
Project duration/date: May 2006  
Job Title and Duties: Project Manager  
Environmental Impact Assessment for the construction of Underberg Sanitation Project in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: Himeville Sanitation System**

Client: Sisonke District Municipality  
Project duration/date: October 2011  
Job Title and Duties: Project Manager  
Environmental Impact Assessment for the construction of Himeville Sanitation Project in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

***Private and Public Sector Development Projects***

**Name of Project: Provincial Legislature Precinct**

Client: KwaZulu-Natal Department of Public Works  
Project duration/date: September 2011  
Job Title and Duties: Project Manager  
Environmental Impact Assessment for the establishment of the KwaZulu-Natal Legislative Precinct in Pietermaritzburg in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project: Camps Drift Mixed Used Development**

Client: Ocean Spray Investments  
Project duration/date: April 2008  
Job Title and Duties: Project Manager  
Environmental Impact Assessment for the establishment of the Camps Drift mixed use development in Pietermaritzburg in KwaZulu-Natal. Duties

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included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:** **Jozini Tiger Lodge**

Client: Anton Brecher

Project duration/date: May 2011

Job Title and Duties: Project Manager

Environmental Impact Assessment for the establishment of the housing development associated with the Tiger Lodge in Jozini, in KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:** **Jozini Paradise Lodge**

Client: Gert Ferreira

Project duration/date: August 2011

Job Title and Duties: Project Manager

Environmental Impact Assessment for the establishment of the Paradise Lodge in Jozini, KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

**Name of Project:** **eNyokeni Palace Expansion**

Client: KwaZulu-Natal Department of Arts and Culture

Project duration/date: March 2014

Job Title and Duties: Project Manager

Environmental Impact Assessment for the expansion of the eNyokeni Palace near Nongoma, KwaZulu-Natal. Duties included the management of the EIA process including the public participation, specialist assessments and report compilation for submission to the relevant authority.

***Biodiversity and Wetland Assessment Projects***

**Name of Project:** **Phalanndwa Coal Mine Biodiversity and Wetland Assessment**

Client: uKhozi Environmentalists

Project duration/date: September 2017

Job Title and Duties: Wetland and Biodiversity Specialist

Undertaking the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the Phalanndwa Coal Mine Expansion near Delmas.

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Name of Project: **Lephalale Coal Mine Biodiversity and Wetland Assessment**  
Client: Kongiwe Environmental Consultants  
Project duration/date: April to August 2017  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the Lephalale Coal Mine near Lephalale.

Name of Project: **Riversdale Coal Mine Wetland Assessment**  
Client: Nzingwe Consultancy  
Project duration/date: May 2017  
Job Title and Duties: Wetland Specialist  
Undertaking the wetland specialist study in support of the Application for Environmental Authorisation and the Water Use Licence Application for the Riversdale Coal Mine near Vryheid.

Name of Project: **SAPPI Saiccor Wetland Assessment**  
Client: WSP Environmental  
Project duration/date: August 2017  
Job Title and Duties: Wetland Specialist  
Undertaking the wetland specialist study in support of the Application for Environmental Authorisation for the construction of flood protection measures associated with the SAPPI Saiccor Mill, uMkomaas.

Name of Project: **11<sup>th</sup> Avenue Interchange Wetland Assessment**  
Client: WSP Environmental  
Project duration/date: September 2017  
Job Title and Duties: Wetland Specialist  
Undertaking the wetland specialist study in support of the Application for Environmental Authorisation for the construction of the 11<sup>th</sup> Avenue Interchange, Durban

Name of Project: **SAPPI Saiccor Alien Invasive Plant – Risk Assessment**  
Client: WSP Environmental  
Project Duration/date: July 2017  
Job Title and Duties: Vegetation Specialist  
Undertaking of the risk assessment of the presence of various listed category I and II alien invasive plant species on the SAPPI Saiccor Mill site, uMkomaas.



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**Name of Project: Uithoek Colliery Wetland and Biodiversity Assessment**

Client: Miranda Minerals

Project duration/date: August 2008

Job Title and Duties: Wetland and Biodiversity Specialist

Undertaking the wetland and biodiversity specialist study in support of the Mining Right Application for the establishment of the Uithoek Colliery, Dundee.

**Name of Project: Burnside Colliery Wetland and Biodiversity Assessment**

Client: Miranda Minerals

Project duration/date: July 2007

Job Title and Duties: Wetland and Biodiversity Specialist

Undertaking the wetland and biodiversity specialist study in support of the Mining Right Application for the establishment of the Burnside Colliery, Dundee.

**Name of Project: Ultimate Goal Colliery Biodiversity Assessment**

Client: Ultimate Goal

Project duration/date: June 2006

Job Title and Duties: Biodiversity Specialist

Undertaking the wetland and biodiversity specialist study in support of the Mining Right Application for the establishment of the Ultimate Goal Colliery, Dundee.

**Name of Project: Sesikhona Colliery Wetland and Biodiversity Assessment**

Client: Miranda Minerals

Project duration/date: September 2008

Job Title and Duties: Wetland and Biodiversity Specialist

Undertaking the wetland and biodiversity specialist study in support of the Mining Right Application for the establishment of the Sesikhona Colliery, Dannhauser.

**Name of Project: Taylors Halt Quarry Wetland and Biodiversity Assessment**

Client: Canton Trading

Project duration/date: May 2006

Job Title and Duties: Wetland and Biodiversity Specialist

Undertaking the wetland and biodiversity specialist study in support of the Mining Right Application for the establishment of the Taylor Halt Quarry, Pietermaritzburg.

**Name of Project: Ladysmith Quarry Wetland and Biodiversity Assessment**

Client: Afrimat

Project duration/date: October 2011

Job Title and Duties: Wetland and Biodiversity Specialist

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Undertaking the wetland and biodiversity specialist study in support of the Mining Right Application for the establishment of the Afrimat Quarry, Ladysmith.

**Name of Project:** **uMtamvuna Quarry Biodiversity Assessment**

Client: South African National Roads Agency Limited  
Project duration/date: January 2005  
Job Title and Duties: Biodiversity Specialist  
Undertaking the biodiversity specialist study in support of the Mining Right Application for the establishment of the SANRAL Quarry, Kokstad.

**Name of Project:** **N3 – Epworth Road Interchange Wetland and Biodiversity Assessment**

Client: South African National Roads Agency Limited  
Project duration/date: September 2010  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the upgrading of the N3 – Epworth Road Interchange, Pietermaritzburg

**Name of Project:** **N3 – Chota Motala Road Interchange Wetland and Biodiversity Assessment**

Client: South African National Roads Agency Limited  
Project duration/date: June 2009  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the upgrading of the N3 – Chota Motala Road Interchange, Pietermaritzburg.

**Name of Project:** **N3 – Market Road Interchange Wetland and Biodiversity Assessment**

Client: South African National Roads Agency Limited  
Project duration/date: October 2016  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the upgrading of the N3 – Market Road Interchange, Pietermaritzburg.

**Name of Project:** **N2 – uMgeni Road Interchange Wetland and Biodiversity Assessment**

Client: South African National Roads Agency Limited  
Project duration/date: June 2012  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the upgrading of the N2 – uMgeni Road Interchange, Durban.

**Name of Project:** **N2 – Mt Edgecombe Interchange Wetland and Biodiversity Assessment**

Client: South African National Roads Agency Limited

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Project duration/date: December 2012  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the upgrading of the N2 – Mt Edgecombe Interchange, Durban.

**Name of Project: R30 Glen Lyon to Brandfort Wetland and Biodiversity Assessment**

Client: South African National Roads Agency Limited  
Project duration/date: June 2008  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the upgrading of the R30 between Glen Lyon and Brandfort.

**Name of Project: R30 Virginia to Beatrix Mine Wetland and Biodiversity Assessment**

Client: South African National Roads Agency Limited  
Project duration/date: October 2008  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the upgrading of the R30 between Virginia and Beatrix Mine.

**Name of Project: Nacala Dam rehabilitation Biodiversity Assessment**

Client: Millennium Challenge Account - Mozambique  
Project duration/date: June 2010  
Job Title and Duties: Biodiversity Specialist  
Undertaking of the biodiversity specialist study in support of the Application for an Environmental Permit for the rehabilitation and raising of the Nacala Dam, Mozambique.

**Name of Project: Bhangazi Community Tented Camp Wetland and Biodiversity Assessment**

Client: Environmental Resources Management  
Project duration/date: March 2017  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the establishment of the Bhangazi Community Tented Camp in the isiMangoliso Wetland Park, St. Lucia.

**Name of Project: SAPPI Ngodwana Mill Expansion Wetland and Biodiversity Assessment**

Client: WSP Environmental  
Project duration/date: June 2010  
Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the expansion of the Ngodwana Mill, Waterval Boven.

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**Name of Project: ESKOM 22 kVA Lines Vegetation Assessments**

Client: ESKOM Soc

Project duration/date: January 2015

Job Title and Duties: Vegetation Specialist  
Undertaking of vegetation assessments for the establishment of various 22kVA electrification lines in KwaZulu-Natal.

**Name of Project: Tombo to Mafini 300kVA Line Vegetation Assessments**

Client: ESKOM Soc

Project duration/date: January 2014

Job Title and Duties: Vegetation Specialist  
Undertaking of vegetation assessment for the route alignment of the 300kVA high voltage electricity line from the Tombo Substation to Mafini, Port St. Johns.

**Name of Project: Port St. Johns Water Treatment Works Wetland and Biodiversity Assessment**

Client: Element Consulting Engineers

Project duration/date: January 2014

Job Title and Duties: Wetland and Biodiversity Specialist  
Undertaking of the wetland and biodiversity specialist study in support of the Application for Environmental Authorisation for the establishment of the Port St. Johns Water Treatment Works, Port St. Johns.

## CONTINUED PROFESSIONAL DEVELOPMENT

### Courses, Conferences & Workshops

- 2013 (September) - IAIAsa National Conference 2013
- 2014 (November) - New Techniques and Methods in EIA (Workshop)
- 2014 (September) - Wetland Identification and Delineation (Short Course)
- 2014 (September) - Wetland Modelling and Assessment (Short Course)
- 2014 (September) - Introduction to Wetland Rehabilitation (Short Course)
- 2015 (February) - 2014 EIA Regulations in Context (Seminar)
- 2015 (April) - Wetland Buffer Determination (Workshop)
- 2016 (July) - Department of Water Affairs (c) & (i) Training (Workshop)
- 2017 (February) - IAIAsa & EDTEA EIA Regulations Overview (Seminar)
- 2017 (May) - Legislative Amendments to the EIA Regulations (2014) (Training Course)
- 2017 (May) - Filtration & Drainage with Geosynthetics (Training Course)

## PERSONAL DETAILS

Nationality – South African

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Date of Birth – 4 September 1976  
Domicile – Wartburg, KwaZulu-Natal, South Africa

**Languages**

Language	reading	speaking	writing
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent
German	Fair	Fair	Poor
Dutch	Fair	Fair	Poor
Zulu	Poor	Communication	Poor

**PROFESSIONAL REGISTRATION AND SOCIETY MEMBERSHIP:**

Professionally registered with the South African Council for Natural Scientific Professionals (SACNASP Reg. No. 400335/11)  
International Association of Impact Assessors – South Africa Suite, membership number 1839

## LIZ DRALLE



<b>Profession</b>	<i>Environmental Assessment Practitioner</i>
<b>Position in Firm</b>	<i>Senior Environmental Scientist</i>
<b>Area of Specialisation</b>	<i>Environmental Impact Assessment</i>
<b>Qualifications</b>	<i>BSc (Hons) (Env Mgmt), BSc (Env Mgmt)</i>
<b>Years of Experience</b>	<i>12 Years</i>
<b>Years with Firm</b>	<i>5 Years</i>

### SUMMARY OF EXPERIENCE

Liz Dralle graduated from the University of KwaZulu-Natal, Pietermaritzburg, with a BSc. Honours (*cum laude*) degree in Environmental Management. The focus of her studies included Geographical Information Systems (GIS), Environmental Impact Assessments (EIA), Geomorphology, Coastal Geomorphology, Biogeography, Natural Resource Management, Sustainable Land Use, Climate Change and City Planning. Her Honours dissertation project involved an investigation into the possible benefits of Vetiver Grass as a soil erosion control medium.

On completion of her degree, Liz was employed by Afzelia Environmental Consultants cc. in the capacity of Environmental Consultant, specializing in agricultural and linear Basic Assessments. She was based in Nottingham Road, KZN Midlands. After one year at Afzelia Environmental Consultants, Liz moved to Durban, where she was employed in the capacity of Environmental Scientist with SRK Consulting (Pty) Ltd. At SRK Consulting (Pty) Ltd, Liz was involved in a multitude of Environmental Impact Assessments (EIAs), focusing mainly on Industrial EIAs. Liz was also involved in several Equator Principle projects and also undertook the role as Environmental Control Officer (ECO) for several monitoring projects.

In 2010, Liz was approached by Environmental Impact Management Services (Pty) Ltd, to act as full time ECO for the Transnet New Multi-Purpose Pipeline (NMPP) Project, running from the Port of Durban to Johannesburg. Liz's role was to undertake daily Environmental Site Audits of her designated area, which started from Ashburton, just outside of Pietermaritzburg, to the Tugela River crossing on the N3. In total, a length of 151km. Further responsibilities included borrow pit identification, Public Participation in the form of monthly Community Liaison Forums, one-to-one interaction with affected landowners, as well as designated Land Liaison Officers. Contractor interaction was required on a daily basis, as well as specialist interaction, specific to the rehabilitation of wetlands, post construction.

After a year on the NMPP Project, Liz joined JEC Environmental Services cc in the capacity of Environmental Consultant. Here Liz undertook several EIAs, focusing mainly on the agricultural sector in the form of piggery and cultivation of virgin land applications, as well as biogas installations. Liz also undertook several Waste Licence Applications.

In May 2014, Liz joined Terratest (Pty) Ltd in the position of Environmental Scientist and was promoted to Senior Environmental Scientist in 2017. At Terratest (Pty) Ltd, Liz is responsible for undertaking a range of Mining Permit and Mining Right Applications pertinent to the Mineral and Petroleum Resources Development Act (Act 28 of 2002), as well as applications made in terms of the National Environmental Management Act (Act 107 of 1998) and the National Water Act (Act 36 of 1998).

Liz is an Institute of Environmental Management and Assessment (IEMA) certified Environmental Auditor. She prescribes to the International Association for Impact Assessment South Africa (IAIASa) code of conduct and has been a member since 2007. She has also served on the KZN IAIAsa branch committee.

## SOCIETY MEMBERSHIP

**IAIASa** - Member of the International Association for Impact Assessment – Membership No 2154

## EDUCATION

**1999: Matric** – Pietermaritzburg Girls' High School  
**2000: Diploma in Business Computing** – Varsity College, Pietermaritzburg  
**2005: BSc (Environmental Management)** – University of KwaZulu-Natal  
**2006: BSc Hons (Environmental Management) *Cum laude*** - University of KwaZulu-Natal

## SPECIFIC EXPERIENCE

### TERRATEST (PTY) LTD

**2014 – Date**

**Position** – Senior Environmental Scientist

### ENVIRONMENTAL IMPACT ASSESSMENTS

<b>Name of project:</b>	<b>Construction of the Greater Kilimon Water Supply Scheme, Ngwagwane River, Harry Gwala District Municipality, KZN.</b>
Client:	iMvula Engineers cc.
Project duration / date:	November 2017 - ongoing
Job title & duties:	Environmental Assessment Practitioner. Undertaking of the EIA process, including site investigations, public participation, liaison with specialists and the preparation of a Scoping Report, full Environmental Impact Report and Environmental Management Plan.
<b>Name of project:</b>	<b>Estcourt Industrial Water Pipeline upgrade, Inkosi Langalibaele Local Municipality, uThukela District Municipality, KZN.</b>
Client:	uThukela District Municipality.
Project duration / date:	November 2017 – November 2018
Job title & duties:	Environmental Assessment Practitioner. Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014, as amended), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
<b>Name of project:</b>	<b>Upgrade of the Mkhuphula Irrigation Project, Msinga Local Municipality, KZN.</b>
Client:	KZN Department of Rural Development and Land Reform.
Project duration / date:	November 2018 – ongoing
Job title & duties:	Environmental Assessment Practitioner. Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014, as amended), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
<b>Name of project:</b>	<b>Development of the Nkungumathe Irrigation Scheme, Nkandla Local Municipality, KZN.</b>
Client:	KZN Department of Rural Development and Land Reform.
Project duration / date:	November 2018 – ongoing
Job title & duties:	Environmental Assessment Practitioner. Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014, as amended), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

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- Name of project:** **Proposed Wembezi Water Conservation and Demand Management Bulk Water and Reticulation scheme upgrade, Inkosi Langalibalele Local Municipality, KwaZulu-Natal.**
- Client: uThukela District Municipality.  
Project duration / date: July 2017 – May 2018  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014, as amended), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project:** **Development of the Midlands Biogas and Fertiliser Plant, Pietermaritzburg, KwaZulu-Natal.**
- Client: Midlands Biogas and Fertiliser  
Project duration / date: January 2015 – October 2016  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project:** **Construction of the Marine Parade Soakaway, Durban Beachfront, KwaZulu-Natal.**
- Client: EThekwini Municipality  
Project duration / date: February 2017 – February 2018  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project:** **Development of Pier 1, Phase 2, Salisbury Island Infill, Port of Durban, EThekwini Metropolitan, KwaZulu-Natal.**
- Client: Transnet SOC Limited  
Project duration / date: January 2016 – December 2016  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project:** **Proposed regional landfill site, Umgungundlovu District Municipality, KwaZulu-Natal.**
- Client: Umgungundlovu District Municipality  
Project duration / date: March 2017 – On hold  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project:** **Relocation of assets on Salisbury Island, Port of Durban, EThekwini Metropolitan, KwaZulu-Natal.**
- Client: Transnet SOC Limited  
Project duration / date: January 2016 – December 2016  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).



**Name of project:** **Development of a Slimes Handling and Bulk Water Storage Facility at Mamatwan Mine, near Hotazel, Northern Cape.**

Client: South32 Hotazel Manganese  
Project duration / date: November 2015 – November 2016  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of the Lombardskop Pipeline, Ladysmith, KwaZulu-Natal.**

Client: WMN Consulting (Pty) Ltd  
Project duration / date: April 2015 – January 2016  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of the Ideal Shavings Poultry Breeders Facility, Dargle, Umngeni Local Municipality, KwaZulu-Natal.**

Client: Ideal Shavings  
Project duration / date: July 2015 – March 2016  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of three footpaths, Ward 53: Zimbabwe Community, Amaoti area, KwaMashu, EThekwini Municipality, KwaZulu-Natal.**

Client: Nankoo Engineers (Pty) Ltd  
Project duration / date: April 2014 – November 2016  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of three roads, Ward 57: Moscow Community, Amaoti area, KwaMashu, EThekwini Municipality, KwaZulu-Natal.**

Client: Nankoo Engineers (Pty) Ltd  
Project duration / date: April 2014 – March 2017  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of the Woodhouse Road pedestrian bridge, Scottsville, Pietermaritzburg, KwaZulu-Natal.**

Client: Henwood and Nxumalo (Pty) Ltd  
Project duration / date: May 2014 – December 2014  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Upgrade of the Ndumo Ring Road, Ndumo, Northern KwaZulu-Natal.  
**Client:** RHDHV (Pty) Ltd  
**Project duration / date:** September 2014 – October 2015  
**Job title & duties:** Environmental Assessment Practitioner.  
 Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Construction of the Ladysmith Ring Road, KwaZulu-Natal.  
**Client:** Aecom (Pty) Ltd on behalf of SANRAL  
**Project duration / date:** May 2014 - ongoing  
**Job title & duties:** Environmental Assessment Practitioner.  
 Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Transformation of agricultural land on 92 subdivisions, Mount Verde, Hilton, uMngeni Local Municipality, KwaZulu-Natal.  
**Client:** Mt. Verde Estate  
**Project duration / date:** September 2015 – June 2016  
**Job title & duties:** Environmental Assessment Practitioner.  
 Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

**Name of project:** Residential Development on the Old Dairy Site, Hilton College, Hilton, UMngeni Municipality, Umgeni Local Municipality, KwaZulu-Natal.  
**Client:** Hilton College  
**Project duration / date:** September 2015 – June 2016  
**Job title & duties:** Environmental Assessment Practitioner.  
 Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

**Name of project:** Amendment to the proposed Greater Mpofana Bulk Water Supply Scheme, UMGungundlovu District Municipality: Realignment of a portion of the authorised pipeline, KwaZulu-Natal.  
**Client:** Umgeni Water  
**Project duration / date:** May 2015 – July 2016  
**Job title & duties:** Environmental Assessment Practitioner.  
 Amendment to existing Environmental Authorisation as per the 2014 EIA Regulations.

**WASTE MANAGEMENT LICENCE APPLICATIONS**

**Name of project:** Goswell Developments Waste Management Licence Variation Application, Cato Ridge, EThekweni Municipality, KZN.  
**Client:** Goswell Developments (Pty) Ltd.  
**Project duration / date:** January 2108 – April 2018  
**Job title & duties:** Environmental Assessment Practitioner.  
 Waste Management Licence Variation Application compilation and submission, client liaison and government authority liaison.

**Name of project:** Development of the Midlands Biogas and Fertiliser Plant, Pietermaritzburg, KwaZulu-Natal.  
**Client:** Midlands Biogas and Fertiliser  
**Project duration / date:** January 2015 – October 2016  
**Job title & duties:** Environmental Assessment Practitioner.

Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Decommissioning of the Goswell Developments Landfill Site, Cato Ridge, EThekweni Municipality, KwaZulu-Natal.**

Client: Goswell Developments (Pty) Ltd

Project duration / date: August 2014 – April 2016

Job title & duties: Environmental Assessment Practitioner.

Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Proposed regional landfill site, Umgungundlovu District Municipality, KwaZulu-Natal.**

Client: Umgungundlovu District Municipality

Project duration / date: March 2017 - Ongoing

Job title & duties: Environmental Assessment Practitioner.

Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Development of a Slimes Handling and Bulk Water Storage Facility at Mamatwan Mine, near Hotazel, Northern Cape.**

Client: South32 Hotazel Manganese Mines

Project duration / date: November 2015 – November 2016

Job title & duties: Environmental Assessment Practitioner.

Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2014) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

## MINING APPLICATIONS

**Name of project:** **Application for a Mining Permit, Thandisizwe Shale Quarry, Pietermaritzburg, KZN.**

Client: Mr N. Moosa

Project duration / date: January 2018 – October 2018

Job title & duties: Environmental Assessment Practitioner.

Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014, as amended) and Mineral and Petroleum Resources Development Act (Act No. 28 of 2002), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Expansion of the Midmar Crushers, KZN.**

Client: Midmar Crushers (Pty) Ltd

Project duration / date: October 2018 - ongoing

Job title & duties: Environmental Assessment Practitioner.

Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2014, as amended) and Mineral and Petroleum Resources Development Act (Act No. 28 of 2002), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Amendment of the BluRock Quarry EMP, Estcourt, KZN.**  
Client: BluRock Quarry (Pty) Ltd.  
Project duration / date: May 2018 – July 2018  
Job title & duties: Environmental Assessment Practitioner.  
Updating and amending the existing EMP for BluRock Quarry (Pty) Ltd as per the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002).

**Name of project:** **Amendment of the Ixopo Crushers EMP, Ixopo, KZN.**  
Client: Ixopo Crushers (Pty) Ltd.  
Project duration / date: June 2018 – August 2018  
Job title & duties: Environmental Assessment Practitioner.  
Updating and amending the existing EMP for Ixopo Crushers (Pty) Ltd as per the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002).

**Name of project:** **Amendment of the LaFarge EMP, Tongaat, KZN.**  
Client: La Farge (Pty) Ltd.  
Project duration / date: November 2018 – November 2018  
Job title & duties: Environmental Assessment Practitioner.  
Updating and amending the existing EMP for La Farge (Pty) Ltd as per the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002).

**Name of project:** **Establishment of a staged mobile crushing plant within the current footprint of the Amasundu Gravel cc quarry pit, KwaZulu-Natal**  
Client: Amasundu Gravel cc  
Project duration / date: February 2016 – May 2017  
Job title & duties: Environmental Assessment Practitioner.  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2014), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Application for Sand Mining Permit, Eston, KwaZulu-Natal**  
Client: RS Transport (Pty) Ltd  
Project duration / date: May 2017 – August 2017  
Job title & duties: Environmental Assessment Practitioner.  
Investigation of SAMRAD requirements and existing site permissions.

**Name of project:** **Midmar Crushes EMPr Amendment, KwaZulu-Natal**  
Client: Midmar Crushes (Pty) Ltd  
Project duration / date: **October 2016 – March 2017**  
Job title & duties: Environmental Assessment Practitioner.  
Compilation and submission of the Amendment to the existing Environmental Management Plan as per Section 22 of the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002).

**Name of project:** **Application for Prospecting Right, Midmar Crushes, KwaZulu-Natal**  
Client: Midmar Crushes (Pty) Ltd  
Project duration / date: October 2015 - October 2016  
Job title & duties: Environmental Assessment Practitioner.  
Compilation and submission of a Prospecting Right in terms of Section 39 and 52 of the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002).

**Name of project:** **Application for Sand Mining Permit, Mvoti River, KwaZulu-Natal**  
Client: Mrs B. Naiker  
Project duration / date: October 2015 – December 2016  
Job title & duties: Environmental Assessment Practitioner.  
Compiling the Environmental Management Plan in terms of Section 39 and 52 of the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002),

including site investigations, public participation, specialist engagement and reporting.

**Name of project:** **Application for Sand Mining Permit, Upper Tugela River, KwaZulu-Natal**  
Client: Madinka 76 cc  
Project duration / date: June 2014 – January 2016  
Job title & duties: Environmental Assessment Practitioner.  
Compiling the Environmental Management Plan in terms of Section 39 and 52 of the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002), including site investigations, public participation, specialist engagement and reporting.

**Name of project:** **Environmental Management Plan for Kulucrete Mining, KwaZulu-Natal**  
Client: Kulucrete Mining  
Project duration / date: October 2014 – December 2014  
Job title & duties: Environmental Assessment Practitioner.  
Updating the Environmental Management Plan in terms of Section 39 and 52 of the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002).

## **WATER USE LICENCE APPLICATIONS**

**Name of project:** **Khombe River Bridge, KwaZulu-Natal.**  
Client: Ibongo Consulting Engineers (Pty) Ltd  
Project duration / date: November 2015 – April 2016  
Job title & duties: Environmental Scientist  
Compilation of a Section 21 c) and i) Water Use Licence Application in terms of the National Water Act (Act No. 36 of 1998).

**Name of project:** **Upgrading of the D168, KwaZulu-Natal.**  
Client: Emzansi Engineers (Pty) Ltd  
Project duration / date: October 2016 - ongoing  
Job title & duties: Environmental Scientist  
Compilation of a Section 21 c) and i) Water Use Licence Application in terms of the National Water Act (Act No. 36 of 1998).

**Name of project:** **Construction on the Farm Aliceville No. 2147, Pennington, KwaZulu-Natal.**  
Client: Zamori 129 (Pty) Ltd  
Project duration / date: January 2016 - ongoing  
Job title & duties: Environmental Scientist  
Compilation of a Section 21 c) and i) Water Use Licence Application in terms of the National Water Act (Act No. 36 of 1998).

## **ENVIRONMENTAL MANAGEMENT PROGRAMMES**

**Name of project:** **The Farm Eweni No. 15381-FT, the Farm Ezulweni No. 15380-FT, and Portion 18 of the Farm Malden No. 13797, Umgungundlovu District Municipality, KwaZulu-Natal.**  
Client: Skema Holdings (Pty) Ltd.  
Project duration / date: November 2017 – February 2018  
Job title & duties: Environmental Assessment Practitioner.  
Compilation of EMPr, including data review and research and client liaison.

**Name of project:** **Development of Fuel Filling Station, Bridge City, KwaMashu, EThekweni Municipality, KwaZulu-Natal.**  
Client: Afzelia Environmental Consultants (Pty) Ltd  
Project duration / date: July 2016 – August 2016  
Job title & duties: Environmental Assessment Practitioner.  
Compilation of an Environmental Management Programme as per the EIA Regulations (2014).

**Name of project:** **Fuel Filling Station, 13 Hope Street, Kokstad, KwaZulu-Natal.**  
Client: New Adventure Investments 38 (Pty) Ltd  
Project duration / date: February 2016 – September 2016  
Job title & duties: Environmental Assessment Practitioner.  
Compilation of an Environmental Management Programme as per the EIA Regulations (2014).

**Name of project:** **Fuel Filling Station on 540 Sibhubhu Road, Imbali, Pietermaritzburg, KwaZulu-Natal.**  
Client: Go Big Projects and Financing (Pty) Ltd  
Project duration / date: September 2015  
Job title & duties: Environmental Assessment Practitioner.  
Compilation of an Environmental Management Programme as per the EIA Regulations (2014).

**Name of project:** **Fuel Filling Station on Mahlabathini Road, Ceza, Ulundi, KwaZulu-Natal.**  
Client: Mr Buthelezi  
Project duration / date: October 2015 – November 2015  
Job title & duties: Environmental Assessment Practitioner.  
Compilation of an Environmental Management Programme as per the EIA Regulations (2014).

**Name of project:** **Fuel Filling Station on 79/81 Victoria Road, Pietermaritzburg, KwaZulu-Natal.**  
Client: New Adventure Investments 38 (Pty) Ltd  
Project duration / date: February 2016 – May 2016  
Job title & duties: Environmental Assessment Practitioner.  
Compilation of an Environmental Management Programme as per the EIA Regulations (2014).

## **ENVIRONMENTAL CONTROL OFFICER DUTIES**

**Name of project:** **Goswell Developments Landfill Permit Audit (2018), Cato Ridge, EThekweni Municipality, KZN.**  
Client: Goswell Developments (Pty) Ltd.  
Project duration / date: August 2018  
Job title & duties: Environmental Auditor.  
Conducting site audits as per the approved Waste Permit and reporting.

**Name of project:** **Goswell Developments Waste Management Facility Audit (2018), Cato Ridge, EThekweni Municipality, KZN.**  
Client: Goswell Developments (Pty) Ltd.  
Project duration / date: July 2018  
Job title & duties: Conducting site audits as per the approved Waste Management Licence and reporting.

**Name of project:** **Construction of Cell 4B: Phase 1, Oatlands Landfill, Ray Nkonyeni Local Municipality, KwaZulu-Natal.**  
Client: Ray Nkonyeni Municipality.  
Project duration / date: July 2015 – December 2015  
Job title & duties: Environmental Control Officer  
Conducting site audits as per the approved Environmental Management Programme and reporting.

**Name of project:** **Construction of Cell 4B: Phase 2, Oatlands Landfill, Ray Nkonyeni Local Municipality, KwaZulu-Natal.**  
Client: Ray Nkonyeni Municipality  
Project duration / date: July 2017 – October 2017  
Job title & duties: Environmental Control Officer

Conducting site audits as per the approved Environmental Management Programme and reporting.

**Name of project:** **Construction of the Eteza Interchange, Northern KwaZulu-Natal.**  
Client: Worsley Parsons (Pty) Ltd  
Project duration / date: June 2015 – November 2015  
Job title & duties: Environmental Control Officer  
Conducting site audits as per the approved Environmental Management Programme and reporting.

**Name of project:** **Construction of the Midlands Biogas Midlands Biogas and Fertiliser Plant, uMshwathi Local Municipality, KwaZulu-Natal.**  
Client: Midlands Biogas and Fertiliser  
Project duration / date: January 2017 – August 2017  
Job title & duties: Environmental Control Officer  
Conducting site audits as per the approved Environmental Management Programme and reporting.

**Name of project:** **Upgrade and construction of Bhhekuzulu/Epangweni Community Water Supply Scheme, KwaZulu-Natal.**  
Client: Sukuma (Pty) Ltd  
Project duration / date: Environmental Control Officer  
Conducting site audits as per the approved Environmental Management Programme and reporting.  
Job title & duties: June 2014 - November 2014

**Name of project:** **Waste Management Licence Audit (2016) at Goswell Developments, Cato Ridge, KwaZulu-Natal.**  
Client: Goswell Developments (Pty) Ltd  
Project duration / date: May 2016  
Job title & duties: Environmental Auditor.  
Conducting site audits as per the approved Waste Management Licence and reporting.

**Name of project:** **Biennial Environmental Audit at Goswell Developments (2016), Cato Ridge, KwaZulu-Natal.**  
Client: Goswell Developments (Pty) Ltd  
Project duration / date: October 2016  
Job title & duties: Environmental Auditor.  
Conducting site audits as per the approved Waste Permit and reporting.

**Name of project:** **Permit Compliance Audit Report (July 2015) for the Goswell Developments Aluminium Disposal Site, Cato Ridge, KwaZulu-Natal.**  
Client: Goswell Developments (Pty) Ltd  
Project duration / date: July 2015  
Job title & duties: Environmental Auditor.  
Conducting site audits as per the approved Waste Permit and reporting.

**Name of project:** **Permit Compliance Audit Report (October 2016) for the Goswell Developments Aluminium Disposal Site, Cato Ridge, KwaZulu-Natal.**  
Client: Goswell Developments (Pty) Ltd  
Project duration / date: October 2017  
Job title & duties: Environmental Control Officer  
Conducting site audits as per the approved Waste Permit and reporting.

**Name of project:** **Permit Compliance Audit Report (August 2017) for the Goswell Developments Aluminium Disposal Site, Cato Ridge, KwaZulu-Natal.**  
Client: Goswell Developments (Pty) Ltd  
Project duration / date: August 2017  
Job title & duties: Environmental Auditor

Conducting site audits as per the approved Waste Permit and reporting.

**Name of project:** **Environmental Due Diligence Assessments for the Belgie Breeder Facility, Belgie Hatchery Facility, Botshabelo Abattoir and Rending Plant, Kelly's View Breeder Facility and the Nutri-feeds Mill located near Bloemfontein, Free State.**

Client: Sovereign Foods (Pty) Ltd  
Project duration / date: June 2014  
Job title & duties: Environmental Auditor  
Due Diligence Audit as per the applicable legislation.

## ENVIRONMENTAL SCREENING

**Name of project:** **Development of a dedicated leachate treatment plant, Oatlands Landfill Site, Port Shepstone, Ray Nkonyeni Local Municipality, KwaZulu-Natal**

Client: Ray Nkonyeni Municipality  
Project duration / date: March 2017 – May 2017  
Job title & duties: Environmental Scientist  
Undertaking of an environmental screening process, including the submission of a motivational letter to the Competent Authority.

**Name of project:** **Proposed Wembezi Water Conservation and Demand Management Bulk Water and Reticulation scheme upgrade, Inkosi Langalibalele Local Municipality, KwaZulu-Natal**

Client: JG Afrika (Pty) Ltd  
Project duration / date: May 2017 – July 2017  
Job title & duties: Environmental Scientist  
Undertaking of an environmental screening process, including the submission of a motivational letter to the Competent Authority.

**Name of project:** **Construction of a house and associated infrastructure on Portion 33, Mt. Verde Estate, KwaZulu-Natal**

Client: Mr I. Bromage  
Project duration / date: July 2016  
Job title & duties: Environmental Scientist  
Undertaking of an environmental screening process, including the submission of a motivational letter to the Competent Authority.

**Name of project:** **Site Assessment on Portion 405/885 of the Farms Vaalkop and Dadelfontein No. 885, for the proposed development of a Light Industrial Park, Umlaas Road, KwaZulu-Natal**

Client: AquaTrans (Pty) Ltd  
Project duration / date: May 2014  
Job title & duties: Environmental Scientist  
Undertaking of an environmental screening process, including the submission of a motivational letter to the Competent Authority.

**Name of project:** **Environmental Screening Assessment for several road and footpath upgrades within the Amaoti and Westbrook Areas, eThekweni Municipality, KwaZulu-Natal**

Client: Nankoo Engineers (Pty) Ltd on behalf of the eThekweni Municipality  
Project duration / date: February 2015 – December 2016  
Job title & duties: Environmental Scientist  
Four year ad hoc contract for various Environmental Screening Assessments, including site investigations and preparation of site specific Environmental Management Programmes.

## JEC ENVIRONMENTAL SERVICES CC

**September 2011 – April 2014**  
**Position – Environmental Scientist**



## ENVIRONMENTAL IMPACT ASSESSMENTS

**Name of project:** Construction of a 160 sow piggery on Erf 189, Weenen, KwaZulu-Natal  
**Client:** Agribusiness Development Agency  
**Project duration / date:** May 2013 – March 2014  
**Job title & duties:** Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Relocation of Existing Wood Pole Turning and CCA Treatment Plant from Schroeders to Cramond, Umshwathi Municipality, KwaZulu-Natal  
**Client:** F.A.R. Timbers cc.  
**Project duration / date:** March 2013 – March 2014  
**Job title & duties:** Environmental Scientist  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Clearance of 40 hectares of indigenous grassland ('veld') for cultivation, KwaSani Local Municipality, KwaZulu-Natal  
**Client:** Flemmington Farming  
**Project duration / date:** August 2013 – April 2014  
**Job title & duties:** Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Clearance of 35 hectares of indigenous grassland ('veld') for the cultivation of annual crops such as radishes and maize, KwaSani Local Municipality, KwaZulu-Natal  
**Client:** Clowes Farming  
**Project duration / date:** June 2013 – March 2014  
**Job title & duties:** Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Construction of a new Water Reservoir and Water Reticulation infrastructure, Thendele Community, Mpofana Local Municipality, KwaZulu-Natal  
**Client:** Jeffares & Green (Pty) Ltd  
**Project duration / date:** January 2012 – October 2012  
**Job title & duties:** Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Establishment of an Effluent Treatment Plant, 14 Oldfield Road, Mkondeni, Msunduzi Local Municipality, Umgungundlovu District Municipality, KwaZulu-Natal  
**Client:** Ramsay Engineering (Pty) Ltd  
**Project duration / date:** April 2012 – December 2012  
**Job title & duties:** Environmental Scientist

Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of the Acaciavale – eZakheni Link Road, Ladysmith, Emnambithi Municipality, KwaZulu-Natal**  
**Client:** EVN Africa Consulting Services (Pty) Ltd  
**Project duration / date:** February 2012 – November 2012  
**Job title & duties:** Environmental Scientist  
 Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of a Biogas Facility at Baynesfield Estate Piggery, Richmond Municipality, KwaZulu-Natal**  
**Client:** Joseph Baynes Estate  
**Project duration / date:** September 2012 – June 2013  
**Job title & duties:** Environmental Scientist  
 Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Mixed Use Development on Cranburn Farm, Mandeni Municipality, iLembe District, KwaZulu-Natal**  
**Client:** Dr P. Arlington  
**Project duration / date:** September 2011 – December 2012  
**Job title & duties:** Environmental Scientist  
 Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

**Name of project:** **‘Allandale’ Tourism Development on the Farm Allendale, Umngeni Local Municipality, Umgungundlovu District Municipality, KwaZulu-Natal**  
**Client:** **Mr F. Reardon**  
**Project duration / date:** **September 2011 – April 2013**  
**Job title & duties:** Environmental Scientist  
 Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Expansion of Piggery Operations on Portion 21 Hardig and Rem of Farm Rhenosterpoort 455, Modimolle Municipality, Waterberg District, Limpopo Province**  
**Client:** Greyling Vark Bordery (Pty) Ltd  
**Project duration / date:** September 2011 – December 2012  
**Job title & duties:** Environmental Scientist  
 Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

## **WASTE MANAGEMENT LICENCE APPLICATIONS**

**Name of project:** **Merrivale Compost Waste Management Licence, uMgeni Municipality, KwaZulu-Natal**  
**Client:** Nutrex Earth Matters

- Project duration / date: September 2013 – April 2014  
Job title & duties: Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project: Waste Management Licence for Tongaat Hulett's Amatikulu Mill, KwaZulu-Natal**  
Client: Tongaat Hulett's Ltd  
Project duration / date: July 2013 – April 2014  
Job title & duties: Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project: Construction of a 160 sow piggery on Erf 189, Weenen , KwaZulu-Natal**  
Client: Agribusiness Development Agency  
Project duration / date: May 2013 – March 2014  
Job title & duties: Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project: Proposed construction of a Biogas Facility at Baynesfield Estate Piggery, Richmond Municipality, KwaZulu-Natal**  
Client: Joseph Baynes Estate  
Project duration / date: September 2012 – June 2013  
Job title & duties: Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project: Waste Management Licence application for the existing Mfolozi Waste Transfer Station in KwaMbonambi, Mfolozi (previously Mbonambi) Local Municipality, northern KwaZulu-Natal**  
Client: Mfolozi Local Municipality  
Project duration / date: November 2011 – August 2012  
Job title & duties: Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2010) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).
- Name of project: Expansion of Piggery Operations on Portion 21 Hardig and Rem of Farm Rhenosterpoort 455, Modimolle Municipality, Waterberg District, Limpopo Province**  
Client: Greyling Vark Bordery (Pty) Ltd  
Project duration / date: September 2011 – December 2012  
Job title & duties: Environmental Scientist  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2010) and National Environmental Management Act: Waste Act (Act No. 59 of 2008), including site investigations, public participation, specialist

engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

#### **ENVIRONMENTAL CONTROL OFFICER DUTIES**

**Name of project:** Environmental Audit for the expansion of the Baynesfield Estate Piggery, Richmond Municipality  
**Client:** Joseph Baynes Estate  
**Project duration / date:** June 2013 – December 2013  
**Job title & duties:** Environmental Control Officer  
Undertaking Environmental Audits of the approved Environmental Management Plan and compilation of Environmental Audit Report.

#### **ENVIRONMENTAL IMPACT MANAGEMENT SERVICES (PTY) LTD**

**July 2010 – May 2011**

**Position – Environmental Control Officer**

#### **ENVIRONMENTAL CONTROL OFFICER DUTIES**

**Name of project:** Daily Environmental Control Officer duties for the construction and installation of the New Multi-Purpose Pipeline (NMPP)  
**Client:** Transet SOC Limited – Capital projects  
**Project duration / date:** July 2010 – May 2011  
**Job title & duties:** Conducting daily construction and rehabilitation environmental site audits in accordance to the New Multi-Purpose Pipeline (NMPP) Environmental Management Plan (EMP) along a 151km pipeline construction servitude.

#### **SRK CONSULTING SOUTH AFRICA (PTY) LTD**

**October 2007 – June 2010**

**Position – Environmental Scientist**

#### **ENVIRONMENTAL IMPACT ASSESSMENTS**

**Name of project:** Incorporation of Flyash into NPC-Cimpor products, Newcastle, KwaZulu-Natal  
**Client:** Natal Portland Cement (Pty) Ltd  
**Project duration / date:** May 2009 – May 2010  
**Job title & duties:** Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** Construction and Operation of a Second Cement Mill at NPC – Cimpor, Simuma Facility, near Port Shepstone, KwaZulu-Natal  
**Client:** Natal Portland Cement (Pty) Ltd  
**Project duration / date:** June 2009 – June 2010  
**Job title & duties:** Environmental Scientist  
Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

**Name of project:** Storage and Utilisation of Alternative Fuels and Resources at Natal Portland Cement's Simuma Facility, Port Shepstone, KwaZulu-Natal  
**Client:** Natal Portland Cement (Pty) Ltd  
**Project duration / date:** June 2009 – June 2010  
**Job title & duties:** Environmental Scientist

Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

**Name of project:** **Establishment of a flood attenuation facility in the Palmiet River catchment, Padfield Park, Pinetown, KwaZulu-Natal**  
**Client:** EThekwini Municipality  
**Project duration / date:** February 2009 – May 2010  
**Job title & duties:** Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction of Housing at Mpola Phase 3, Pinetown South, KwaZulu-Natal**  
**Client:** EThekwini Municipality  
**Project duration / date:** April 2009 – June 2010  
**Job title & duties:** Environmental Scientist  
Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

**Name of project:** **Construction of the Sisonke Farmers Market, Ixopo, KwaZulu-Natal**  
**Client:** Black Balance (Pty) Ltd  
**Project duration / date:** May 2009 – June 2010  
**Job title & duties:** Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Construction and Operation of a Calciner at Foskor and a Rapidwall Plant at ERF1906, Alton, Richards Bay, KwaZulu-Natal**  
**Client:** Foskor Limited  
**Project duration / date:** April 2008 – April 2009  
**Job title & duties:** Environmental Scientist  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Environmental Management Plan for the Mondi Odour Abatement project, Richards Bay, KwaZulu-Natal**  
**Client:** Mondi Limited  
**Project duration / date:** July 2009  
**Job title & duties:** Environmental Scientist  
Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.

**Name of project:** **Installation of Underground Storage Tanks at the Car Rental Facilities at the King Shaka Airport, La Mercy, KwaZulu-Natal**  
**Client:** Natural Resources Institute  
**Project duration / date:** August 2008 – August 2009  
**Job title & duties:** Environmental Scientist  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Decommissioning of MSMA Plant, Dow AgroSciences, Verulam, KwaZulu-Natal**

Client: Dow Chemicals  
Project duration / date: September 2007 – September 2009  
Job title & duties: Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Installation of the SEA Cable System, KZN North Coast, South Africa**

Client: SEACOM / NEOTEL  
Project duration / date: March 2008-April 2009  
Job title & duties: Environmental Scientist  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Installation of an Underground Storage Tank for “Non-Aromatic” White Spirits, Pinetown, KwaZulu-Natal**

Client: Sara Lee (Pty) Ltd  
Project duration / date: November 2008-December 2009  
Job title & duties: Environmental Scientist  
Undertaking the Full Scoping and EIA Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Development of a Shell Petrol Filling Station, Waterfall, KwaZulu-Natal**

Client: Shell SA (Pty) Ltd  
Project duration / date: September 2007 – October 2009  
Job title & duties: Environmental Scientist  
Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

**Name of project:** **Construction of the Wembezi Interchange at National Route 3 and Main Road 29, Wembezi / Estcourt, KwaZulu-Natal**

Client: Jeffares & Green (Pty) Ltd  
Project duration / date: September 2007 – September 2008  
Job title & duties: Environmental Scientist  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation, specialist engagement and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

**Name of project:** **Establishment of a 132kV Power Line and Associated 20MVA Substation, Ndwedwe, KwaZulu-Natal**

Client: Eskom  
Project duration / date: October 2007 – March 2008  
Job title & duties: Environmental Scientist  
Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.

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## ENVIRONMENTAL CONTROL OFFICER DUTIES

- Name of project:** **Post-construction auditing of the various cable stations constructed for the use of the SEACOM telecommunications cable**
- Client: SEACOM / NEOTEL  
 Project duration / date: March 2009  
 Job title & duties: Environmental Control Officer  
 Undertaking Environmental Audit of the approved Environmental Management Plan and compilation of Environmental Audit Report.
- Name of project:** **Due diligence audit of the Tyco Cable Laying Vessel of the SEA Cable System**
- Client: SEACOM / NEOTEL  
 Project duration / date: **Environmental Auditor**  
 Job title & duties: Undertaking Environmental Due Diligence Audit of the Tyco Cable Laying Vessel.
- Name of project:** **Environmental Compliance Audit for the Installation of Aboveground Storage Tanks, Phoenix, EThekweni Municipality, KwaZulu-Natal**
- Client: ABI (Pty) Ltd  
 Project duration / date: January 2008 – March 2008  
 Job title & duties: Environmental Control Officer  
 Undertaking Environmental Audit of the approved Environmental Management Plan and compilation of Environmental Audit Report.

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## AFZELIA ENVIRONMENTAL CONSULTANTS CC

**November 2006 – September 2007**  
**Position – Environmental Scientist**

## ENVIRONMENTAL IMPACT ASSESSMENTS

- Name of project:** **Construction of “Baronberg Estate” on the Farm Blair Atholl No. 15735, Mooi Mpofana Municipality, KwaZulu-Natal**
- Client: Baronberg cc  
 Project duration / date: November 2006 – September 2007  
 Job title & duties: Environmental Consultant  
 Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.
- Name of project:** **“Valley View” Residential Development on portion 72 (of 71) of the Farm Camperdown No. 1330, Camperdown, KwaZulu-Natal**
- Client: Private developer  
 Project duration / date: May 2007 – September 2007  
 Job title & duties: Environmental Consultant  
 Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.
- Name of project:** **Development of a Nutrex KZN (Pty) Ltd Animal Feed Mill on Portion 401 (of 6) of the Farm Allermans Drift No. 950, Tweedie, uMngeni Municipality, KwaZulu-Natal.**
- Client: Nutrex (Pty) Ltd  
 Project duration / date: March 2007 – September 2007  
 Job title & duties: Environmental Consultant  
 Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

<p><b>Name of project:</b> Client: Project duration / date: Job title &amp; duties:</p>	<p><b>Cleopatra Extension, KwaZulu-Natal Midlands</b> Cleopatra (Pty) Ltd March 2007 – September 2007 Environmental Consultant Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.</p>
<p><b>Name of project:</b>  Client: Project duration / date: Job title &amp; duties:</p>	<p><b>Sumaridge Residential Swimming Pool, Portion 623 (of 116) of the Farm Lot 61 No. 1521, Salt Rock, KwaDukuza Local Municipality Salt Rock, KwaZulu-Natal</b> Private resident June 2007 – September 2007 Environmental Consultant Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).</p>
<p><b>Name of project:</b>  Client: Project duration / date: Job title &amp; duties:</p>	<p><b>Construction of Chicken Houses on Hanbury Farms, Farm No 4, Ashley Grange, D174, Merrivale / Mpophomeni, KwaZulu-Natal</b> Hanbury Chickens (Pty) Ltd June 2007 – September 2007 Environmental Consultant Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).</p>
<p><b>Name of project:</b> Client: Project duration / date: Job title &amp; duties:</p>	<p><b>Expansion of the Kwesi Hostel</b> Estcourt Municipality June 2007 – September 2007 Environmental Consultant Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.</p>
<p><b>Name of project:</b>  Client: Project duration / date: Job title &amp; duties:</p>	<p><b>eSikheshini community access road upgrade, Ingwe Local Municipality, Sisonke District Municipality, KwaZulu-Natal</b> Ingwe Local Municipality May 2007 – September 2007 Environmental Consultant Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).</p>
<p><b>Name of project:</b>  Client: Project duration / date: Job title &amp; duties:</p>	<p><b>“Heritage Ridge” comprising 20 new residential / holiday home opportunities and associated infrastructure on Portion 7 (of 1) of Lot H 105 No. 13359, Big Five False Bay Municipality, KwaZulu-Natal</b> Private developer February 2007 – September 2007 Environmental Consultant Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.</p>
<p><b>Name of project:</b></p>	<p><b>“Hillside” development on the Remainder of Portion 99 (of 25) of the Farm Gowrie No. 1930, Nottingham Road, uMngeni Local Municipality, KwaZulu-Natal</b></p>



<p>Client: Project duration / date: Job title &amp; duties:</p>	<p>Rawdons Country Estate March 2007 – September 2007 Environmental Consultant Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.</p>
<p><b>Name of project:</b></p> <p>Client: Project duration / date: Job title &amp; duties:</p>	<p><b>“Rawdons Country Estate” development on the Remainder of Portion 137 of the Farm Gowrie No. 1930, Nottingham Road, uMngeni Municipality, KwaZulu-Natal.</b></p> <p>Rawdons Country Estate March 2007 – September 2007 Environmental Consultant Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.</p>
<p><b>Name of project:</b></p> <p>Client: Project duration / date: Job title &amp; duties:</p>	<p><b>Development of a water pipeline from Sundumbili reticulation reservoir A to Mandeni Bulk Gravity Main and on to Rocky Ridge Reservoir; including an additional pipeline to the Tugela Water Treatment Works, Mandeni, Ilembe Municipality, KwaZulu-Natal</b></p> <p>SSI (Pty) Ltd January 2007 - September 2007 Environmental Consultant Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).</p>
<p><b>Name of project:</b></p> <p>Client: Project duration / date: Job title &amp; duties:</p>	<p><b>Resort and Spa Development on the North Bank of the Thukela Mouth, Portion 1 of Ayinkindaba No. 11678, Portion 5 of 3 of Ayinkindaba No. 11678, and Portion 2 and 3 of Reserve No. 7A No. 15826. Mandeni Local Municipality, KwaZulu-Natal</b></p> <p>Private developer December 2006 – September 2007 Environmental Consultant Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.</p>
<p><b>Name of project:</b></p> <p>Client: Project duration / date: Job title &amp; duties:</p>	<p><b>“Tugela Tides” resort on the North Bank of the Thukela Mouth, on remainder of Portion 3 of Ayikindaba No 11678, and portion 4 of 3 of the farm Ayikindaba No 15826. Mandeni Local Municipality, KwaZulu-Natal</b></p> <p>Private developer December 2006 – September 2007 Environmental Consultant Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations and undertaking the required public participation process.</p>
<p><b>Name of project:</b></p> <p>Client: Project duration / date: Job title &amp; duties:</p>	<p><b>Upgrading of the Umzimkhulu pedestrian bridge, Sisonke District Municipality, KwaZulu-Natal</b></p> <p>Umzimkhulu Municipality 8 months, 2017 Environmental Consultant Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).</p>

**Name of project:** Development of a poultry enterprise on the Remainder of Wilde Perde Vlei no. 1004, Winterton, uThukela Municipality, KwaZulu-Natal

**Client:** Private developer

**Project duration / date:** 8 months, 2017

**Job title & duties:** Environmental Consultant  
Undertaking the Basic Assessment Process in terms of the applicable EIA Regulations (2006), including site investigations, public participation and reporting (i.e. compilation of the Basic Assessment Report and Environmental Management Plan).

## BIODIVERSITY RESEARCH

**Name of project:** DV Harris Pipeline

**Client:** Umgeni Water

**Project duration / date:** 3 months, 2007

**Job title & duties:** Environmental Consultant  
Literature review and data collection

**Name of project:** Biodiversity and Ecological Assessment for the proposed Health Spa and Leisure Resort called 'Afriquest', Cathkin Park.

**Client:** Afriquest

**Project duration / date:** 3 months, 2007

**Job title & duties:** Environmental Consultant  
Literature review and data collection

## DEVELOPMENT

### Courses

- 2016** - Microsoft Project 2013 Essentials: Bytes People Solutions
- 2009** - Tree Identification Short Course: Indiflora cc
- 2008** - IEMA Environmental Auditor Course (ISO 14001): Crystal Clear Consulting
- 2007** - Solid Waste Management: Durban Solid Waste
- 2002** - Introduction to Counselling, Psychology South Thames College, London, England

## PERSONAL DETAILS

Nationality – South African  
Date of Birth – 1981-07-02  
Domicile – Pietermaritzburg, South Africa

### Languages

English – Excellent  
Afrikaans – Fair