

MAGNUS VAN ROOYEN



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| Profession | PRINCIPAL ENVIRONMENTAL SCIENTIST |
| Position in Firm | EXECUTIVE ASSOCIATE |
| Area of Specialisation | 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. |
| Qualifications | BSc (Botany and Zoology), BSc (Hons), Post Graduate Certificate in Education (Science and Biology), MPhil. (Environmental Management) |
| Years of Experience | 14 |
| Years with Firm | 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.

EDUCATION

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|----------------------------|---|
| 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 Honours – 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

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|-------------------------|---|
| 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 |

**Position(s)
Description**
Junior Lecturer in Botany
Lectured the Botany practical component of the first-year Natural Science Degree.

**Date (from – to)
Location
Employer
Position(s)
Description**
2002 – 2005
Stellenbosch, Western Cape, South Africa
Department of Conservation Ecology, University of Stellenbosch
Biodiversity Researcher
Conducted field work, sampling, laboratory work and logistics associated with two projects within the Conservation Ecology Department

**Date (from – to)
Location
Employer
Position(s)
Description**
2006 - 2007
Pietermaritzburg, KwaZulu-Natal, South Africa
Jeffares & Green (Pty) Ltd Consulting Engineers
Environmental Scientist
Conducted field work, complete Applications for Environmental Authorisation (Basic Assessments and Full Scoping and EIAs)

**Date (from – to)
Location
Employer
Position(s)
Description**
2007 – 2010
Pietermaritzburg, KwaZulu-Natal, South Africa
Jeffares & Green (Pty) Ltd Consulting Engineers
Senior Environmental Scientist
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.

**Date (from – to)
Location
Employer
Position(s)
Description**
2011 - present
Pietermaritzburg, KwaZulu-Natal, South Africa
JG Afrika (Pty) Ltd (previously Jeffares & Green (Pty) Ltd)
Principal Environmental Consultant
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

Name of Project: Environmental Impact Assessment for the proposed expansion of Pier 1 within the Port of Durban
Client: Transnet SOC
Project duration/date: January 2014 – December 2016
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 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

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

Client: Lichtenburg and Delmas
Jefferies & 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

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.

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

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.

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

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

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 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

Name of Project: Mooi - Mpošana 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 – Mpošana 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

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:

KwaHlokhoko 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 KwaHlokhoko 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 2010

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:

KwaLobe Rural Water Supply Scheme

Client:

Jeffares & Green (Pty) Ltd

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

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: Phalanmdwa 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 Phalanmdwa Coal Mine Expansion near Delmas.

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: 11th 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 11th 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.

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

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

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 Edgewcombe 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.

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



CURRICULUM VITAE

Date of Birth – 4 September 1976

Domicile – Wartburg, KwaZulu-Natal, South Africa

Languages

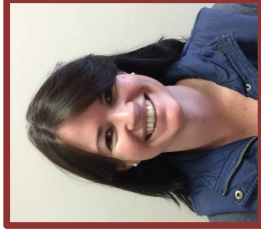
| Language | reading | speaking | writing |
|-----------|-----------|---------------|-----------|
| English | Excellent | Excellent | Excellent |
| Afrikaans | Excellent | Excellent | Excellent |
| German | Fair | Fair | Poor |
| Dutch | Fair | Fair | Poor |
| Zulu | Poor | Communication | Poor |

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



| | |
|------------------------|---------------------------------------|
| Profession | Environmental Assessment Practitioner |
| Position In Firm | Senior Environmental Scientist |
| Area of Specialisation | Environmental Impact Assessment |
| Qualifications | BSc (Hons) (Env Mgmt), BSc (Env Mgmt) |
| Years of Experience | 12 Years |
| Years with Firm | 5 Years |

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 Atzella 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 Atzella 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 piggy 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

Name of project: **Construction of the Greater Kilimon Water Supply Scheme, Ngwagwane River, Harry Gwala District Municipality, KZN.**

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.

Name of project: **Estcourt Industrial Water Pipeline upgrade, Inkosi Langalibalele Local Municipality, uThukela District Municipality, KZN.**

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).

Name of project: **Upgrade of the Mkhuphula Irrigation Project, Mainga Local Municipality, KZN.**

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).

Name of project: **Development of the Nkungunthe Irrigation Scheme, Nkandla Local Municipality, KZN.**

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).

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: EThekweni 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, EThekweni 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, EThekweni 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).

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| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Development of a Slimes Handling and Bulk Water Storage Facility at Mamatwan Mine, near Hotazel, Northern Cape. South32 Hotazel Manganesse November 2015 – November 2016 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).</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Construction of the Lombardskop Pipeline, Ladysmith, KwaZulu-Natal. WMN Consulting (Pty) Ltd April 2015 – January 2016 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).</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Construction of the Ideal Shavings Poultry Breeders Facility, Dargle, Umgeni Local Municipality, KwaZulu-Natal. Ideal Shavings July 2015 – March 2016 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).</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Construction of three footpaths, Ward 53: Zimbabwwe Community, Amaoti area, KwaMashu, EThekweni Municipality, KwaZulu-Natal. Nankoo Engineers (Pty) Ltd April 2014 – November 2016 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).</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Construction of three roads, Ward 57: Moscow Community, Amaoti area, KwaMashu, EThekweni Municipality, KwaZulu-Natal. Nankoo Engineers (Pty) Ltd April 2014 – March 2017 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).</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Construction of the Woodhouse Road pedestrian bridge, Scottsville, Pietermaritzburg, KwaZulu-Natal. Henwood and Nxumalo (Pty) Ltd May 2014 – December 2014 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).</p> |

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|---|---|
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Upgrade of the Ndumo Ring Road, Ndumo, Northern KwaZulu-Natal. RHDHV (Pty) Ltd September 2014 – October 2015 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).</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Construction of the Ladysmith Ring Road, KwaZulu-Natal. Aecom (Pty) Ltd on behalf of SANRAL May 2014 - ongoing 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).</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Transformation of agricultural land on 92 subdivisions, Mount Verde, Hilton, Umgeni Local Municipality, KwaZulu-Natal. Mt. Verde Estate September 2015 – June 2016 Environmental Assessment Practitioner. Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Residential Development on the Old Dairy Site, Hilton College, Hilton, Umgeni Municipality, Umgeni Local Municipality, KwaZulu-Natal. Hilton College September 2015 – June 2016 Environmental Assessment Practitioner. Assistant to the lead Environmental Assessment Practitioner. Duties included conducting site investigations, undertaking the required public participation process and reporting.</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Amendment to the proposed Greater Mpofoana Bulk Water Supply Scheme, Umgungundlovu District Municipality: Realignment of a portion of the authorised pipeline, KwaZulu-Natal. Umgenti Water May 2015 – July 2016 Environmental Assessment Practitioner. Amendment to existing Environmental Authorisation as per the 2014 EIA Regulations.</p> |
| WASTE MANAGEMENT LICENCE APPLICATIONS | |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Goswell Developments Waste Management Licence Variation Application, Cato Ridge, EThekweni Municipality, KZN. Goswell Developments (Pty) Ltd. January 2018 – April 2018 Environmental Assessment Practitioner. Waste Management Licence Variation Application compilation and submission, client liaison and government authority liaison.</p> |
| <p>Name of project: Client: Project duration / date: Job title & duties:</p> | <p>Development of the Midlands Biogas and Fertiliser Plant, Pietermaritzburg, KwaZulu-Natal. Midlands Biogas and Fertiliser January 2015 – October 2016 Environmental Assessment Practitioner.</p> |

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:

Client:
Project duration / date:
Job title & duties:

Decommissioning of the Goswell Developments Landfill Site, Cato Ridge, eThekweni Municipality, KwaZulu-Natal.

Goswell Developments (Pty) Ltd
August 2014 – April 2016
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:

Client:
Project duration / date:
Job title & duties:

Proposed regional landfill site, Umgungundlovu District Municipality, KwaZulu-Natal.

Umgungundlovu District Municipality
March 2017 - Ongoing
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:

Client:
Project duration / date:
Job title & duties:

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

South32 Hotazel Manganese Mines
November 2015 – November 2016
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:

Client:
Project duration / date:
Job title & duties:

Application for a Mining Permit, Thandisizwe Shale Quarry, Pietermaritzburg, KZN.

Mr N. Moosa
January 2018 – October 2018
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:

Client:
Project duration / date:
Job title & duties:

Expansion of the Midmar Crushers, KZN.

Midmar Crushers (Pty) Ltd
October 2018 - ongoing
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:

Client:
Project duration / date:
Job title & duties:

Amendment of the BluRock Quarry EMP, Estcourt, KZN.

BluRock Quarry (Pty) Ltd.
May 2018 – July 2018
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:

Client:
Project duration / date:
Job title & duties:

Amendment of the Ixopo Crushers EMP, Ixopo, KZN.

Ixopo Crushers (Pty) Ltd.
June 2018 – August 2018
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:

Client:
Project duration / date:
Job title & duties:

Amendment of the LaFarge EMP, Tongaat, KZN.

La Farge (Pty) Ltd.
November 2018 – November 2018
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:

Client:
Project duration / date:
Job title & duties:

Establishment of a staged mobile crushing plane within the current footprint of the Amasundu Gravel cc quarry pit, KwaZulu-Natal

Amasundu Gravel cc
February 2016 – May 2017
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:

Client:
Project duration / date:
Job title & duties:

Application for Sand Mining Permit, Eston, KwaZulu-Natal

RS Transport (Pty) Ltd
May 2017 – August 2017
Environmental Assessment Practitioner.
Investigation of SAMRAD requirements and existing site permissions.

Name of project:

Client:
Project duration / date:
Job title & duties:

Midmar Crushers EMPr Amendment, KwaZulu-Natal

Midmar Crushers (Pty) Ltd
October 2016 – March 2017
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:

Client:
Project duration / date:
Job title & duties:

Application for Prospecting Right, Midmar Crushers, KwaZulu-Natal

Midmar Crushers (Pty) Ltd
October 2015 - October 2016
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:

Client:
Project duration / date:
Job title & duties:

Application for Sand Mining Permit, Mvoti River, KwaZulu-Natal

Mrs B. Naiker
October 2015 – December 2016
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 Tugeia 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 Kulucete Mining, KwaZulu-Natal**
Client: Kulucete 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 EMP, including data review and research and client liaison.
- Name of project:** **Development of Fuel Filling Station, Bridge City, KwaMashu, EThekweni Municipality, KwaZulu-Natal.**
Client: Alzelia 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 Sibhubu 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.

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| Name of project: | Construction of the Eieza 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 Bhekuzulu/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.

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| 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 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: Flemington 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, Mpotana Local Municipality, KwaZulu-Natal
Client: Jettfares & 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, Mkhondeni, 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, Emambithi 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, Umnngeni 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 Boredy (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:
Job title & duties:

September 2013 – April 2014
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:
Project duration / date:
Job title & duties:

Tongaat Hulett's Ltd
July 2013 – April 2014
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:
Project duration / date:
Job title & duties:

Agribusiness Development Agency
May 2013 – March 2014
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:
Project duration / date:
Job title & duties:

Joseph Baynes Estate
September 2012 – June 2013
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 Mfolori Waste Transfer Station in Kwalmbonambi, Mfolori (previously Mbonambi) Local Municipality, northern KwaZulu-Natal

Client:
Project duration / date:
Job title & duties:

Mfolori Local Municipality
November 2011 – August 2012
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:
Project duration / date:
Job title & duties:

Greyling Vark Bordeny (Pty) Ltd
September 2011 – December 2012
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:
Project duration / date:
Job title & duties:

Joseph Baynes Estate
June 2013 – December 2013
Environmental Control Officer
Undertaking Environmental Audits of the approved Environmental Management Plan and completion 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:
Project duration / date:
Job title & duties:

Transet SOC Limited – Capital projects
July 2010 – May 2011
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:
Project duration / date:
Job title & duties:

Natal Portland Cement (Pty) Ltd
May 2009 – May 2010
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:
Project duration / date:
Job title & duties:

Natal Portland Cement (Pty) Ltd
June 2009 – June 2010
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:
Project duration / date:
Job title & duties:

Natal Portland Cement (Pty) Ltd
June 2009 – June 2010
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: EThekweni 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: EThekweni 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 EFF1906, 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 Mondli Odour Abatement project, Richards Bay, KwaZulu-Natal**

Client: Mondli 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.

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:** January 2008 – March 2008
- Job title & duties:** Environmental Auditor
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, EThekwin 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.

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 Mopfana 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).

Cleopatra Extension, KwaZulu-Natal Midlands

- Name of project:** Cleopatra (Pty) Ltd
- Project duration / date:** March 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:** Sumaridge Residential Swimming Pool, Portion 623 (of 116) of the Farm Lot 61 No. 1521, Salt Rock, KwaDukuza Local Municipality Salt Rock, KwaZulu-Natal
- Client:** Private resident
- Project duration / date:** June 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).
- Name of project:** Construction of Chicken Houses on Hanbury Farms, Farm No 4, Ashley Grange, D174, Merrivale / Mpophomeni, KwaZulu-Natal
- Client:** Hanbury Chickens (Pty) Ltd
- Project duration / date:** June 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).
- Name of project:** Expansion of the Kwesi Hostel
- Client:** Estcourt Municipality
- Project duration / date:** June 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:** eSikheshini community access road upgrade, Ingwe Local Municipality, Sisonke District Municipality, KwaZulu-Natal
- Client:** Ingwe Local Municipality
- Project duration / date:** May 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).
- Name of project:** "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
- Client:** Private developer
- Project duration / date:** February 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:** "Hillside" development on the Remainder of Portion 99 (of 25) of the Farm Gowrie No. 1930, Nottingham Road, uMngeni Local Municipality, KwaZulu-Natal

Client:
Rawdons Country Estate
March 2007 – September 2007
Name of project:
Development of a poultry enterprise on the Remainder of Wilde Perde Vlei no. 1004, Winterton, uThukela Municipality, KwaZulu-Natal

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).

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

Client:
Ungeni Water
3 months, 2007
Name of project:
Biodiversity and Ecological Assessment for the proposed Health Spa and Leisure Resort called 'Afrquest', Cathkin Park.

Project duration / date:
3 months, 2007
Job title & duties:
Environmental Consultant
Literature review and data collection

Name of project:
Microsoft Project 2013 Essentials: Bytes People Solutions

Client:
Afrquest
3 months, 2007
Name of project:
Biodiversity and Ecological Assessment for the proposed Health Spa and Leisure Resort called 'Afrquest', Cathkin Park.

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

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
8 months, 2017
Name of project:
Development of a poultry enterprise on the Remainder of Wilde Perde Vlei no. 1004, Winterton, uThukela Municipality, KwaZulu-Natal

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:
Ungeni Water
3 months, 2007
Name of project:
Biodiversity and Ecological Assessment for the proposed Health Spa and Leisure Resort called 'Afrquest', Cathkin Park.

Project duration / date:
3 months, 2007
Job title & duties:
Environmental Consultant
Literature review and data collection

Name of project:
Microsoft Project 2013 Essentials: Bytes People Solutions

Client:
Afrquest
3 months, 2007
Name of project:
Biodiversity and Ecological Assessment for the proposed Health Spa and Leisure Resort called 'Afrquest', Cathkin Park.

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