



# **CURRICULUM VITAE: KEN VAN ROOYEN**

# **SUMMARY PROFILE**

Ken started his career working as an Exploration Geologist in 1987 after which he specialised in Environmental Management, working both within the Mining Industry and then as an Environmental Consultant.

His main areas of interest are:

- the design, management and repair of waste facilities;
- rehabilitation planning and modelling;
- risk assessment; and
- quantifying environmental liabilities.

He obtained a Masters degree in Geography based on his final dissertation entitled "An integrated method of coal discard and slurry disposal to reduce the environmental impact from coal residue".

Ken's project experience is extensive in scope and covers various developments including agricultural and residential developments, power generation, infrastructure and mining projects. In addition to working on projects throughout South Africa, Ken has worked in Botswana, Mozambique, Zimbabwe, Zambia, Madagascar, Sierra Leone, Rwanda, Mali, Nigeria and the United States of America.

He has presented at numerous local and international forums on issues such as waste management, integrated environmental management and sustainability. As well as represented companies on various committees and advisory groups e.g. the Atmospheric Pollution Prevention Committee, the Water Research Commission (Vaal Barrage), the National Groundwater Quality Management Strategy Advisory Group, the Inkomati-Usuthu Catchment forum and many more.

# **EXPERIENCE**

30+ years

# QUALIFICATIONS

MSc Geography, Rand Afrikaans University, 1991

BSc Hons. Geography, Geomorphology & Climatology, Rand Afrikaans University, 1989

BSc Earth Science, Geology & Geography, Rand Afrikaans University, 1986

#### **PROFESSIONAL MEMBERSHIPS** & **AFFILIATIONS**

Registered with the South African Council for Natural Scientists (SACNASP), Pr.Sci.Nat Reg. 400121/93

Member of the International Association for Impact Assessment, South Africa

Member of the Geological Society of South Africa

Associate Member of Environmental Earth Science Group

# SHORT COURSES

Carbon Footprint Analyst, Terra Firma Academy, currently completing

WRSM/Pitman model and WR2012, Bailey and Pitman Water Resources, 2020

SAMREC Code, Geological Society of South Africa, 2020

Financial Provision Regulations & Mine Closure Liabilities, Imbewu, 2016

Mining & Rehabilitation Modelling, Modelmakers,

NEM:Waste Management Act, Mac Roberts Attorneys, 2014

Environmental and Mining Law, Mac Roberts Attorneys, 2013

Integrated Environmental Management Course (I.E.M.), 1991. Received group projects award.

Geographical Information Systems (GIS), Honours Level. 1991



# **EMPLOYEMENT HISTORY**

Cabanga Environmental: 2006 – current

Position Held: Managing Member

Digby Wells & Associates: 1995 – 2006

Last Position Held: Executive Director

Rand Mines: 1989 - 1994

Last Position Held: Group Environmental Scientist

Ecological Evaluators: 1988 – 1989

Position Held: Environmental Consultant

Rand Mines, Durban Roodepoort Deep and Blyvoor

**Gold:** 1987 – 1988

Last Position Held: Surface and Underground

Geologist

# SELECTED PROJECT EXPERIENCE

# **Pre-Feasibility & Feasibility Assessments**

**Scope:** Assessing the viability of a development from an environmental perspective. Identifying potential issues and risks to the successful completion of the project and proposing mitigatory measures where appropriate.

Client: Various -

- Tumelo Coal Mines, Tumelo Colliery 4 Seam Project, Mpumalanga Province (2019)
- Future Coal, Chelmsford Colliery, Macclesfield Opencast, KwaZulu-Natal (2018)
- Optimum Coal, Marion 4 Dragline Crossing, Mpumalanga (2017)
- Mmakau Coal, Schurvekop Colliery, Mpumalanga (2017)
- Evander Gold Mines, Elikhulu Re-processing Project, Mpumalanga Province (2016)
- Tinco Investments, Rutonga Mining Operation, Rwanda (2013)
- Tinco Investments, Nyakabingo Minining Operation, Rwanda (2013)
- Badger Mining and Consulting, Sakoa Coal, Madagascar (2012)

# Rehabilitation Modelling & Assessment of Financial Liabilities

**Scope:** Modelling of the final landform for various mining operations, and calculating the environmental liabilities associated therewith.

Client: Various -

- Tumelo Coal Mines, Tumelo Colliery, Mpumalanga (2020)
- Eyethu Coal, Mooifontein Colliery (Washplant) (2019 - 2020)
- Iyanga Mining, Klipfontein Colliery (2019 2020)
- G&W Base and Industrial Minerals, Boane Bentonite Mine, Mozambique (2016 – 2019)
- MC Mining, Uitkomst Colliery, Kwa-Zulu Natal (2016 – 2019)
- Matsopa Minerals, Benadeplaats Limestone Mine, North-west Province (2016 - 2020)
- G&W Base and Industrial Minerals,
   Koppies Bentonite Mine, Free State (2016 2020)
- Witkop Fluorspar, Witkop Mine, North-west Province (2017)
- Optimum Coal, Optimum Colliery, Mpumalanga (2017)

# Environmental Advisory, ECO Services & Technical Reviews

Client: Various -

- Pan African Resources, Technical Review and Opinion of the Sasol Secunda UG Water Storage Risk Assessment, Mpumalanga (2020)
- Sabi Sand Conservation Trust, Save the Sands Project, Independent Environmental Review: Current status of development affecting the Sand River, Mpumalanga (2020)
- Overlooked Colliery, Strategic Environmental Advisor and ECO services, Mpumalanga (2016 - current)



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# **SELECTED PROJECT EXPERIENCE (confinued)**

- Droogvallei Rail Siding Company, Strategic Environmental Advisor and ECO services, Mpumalanga (2012 – 2019)
- Idwala Coal, River Reinstatement, Project Management and ECO services for the Reinsatement and Rehabilitation of the tributary to the Rietspruit River Mpumalanga (2017)
- Evander Gold Mines, Internal Review and Approval of the Environmental Reports for the Elikhulu Project, Mpumalanga (2016)
- Worldwide Coal Carolina (Pembani Coal), Strategic Environmental Advisor for the Groenvallei Colliery, Mpumalanga (2006 -2015)
- IG Chem, Olifantsfontein Plant, Internal Review and Approval of the 24G EMP, Gauteng (2015)
- Logistics Intelligence Siding Depot, Internal Review and Approval of the EMP for the Upgrade and Operation of a Siding Depot, Gauteng (2015)
- Shanduka Coal (Glencore Coal South Africa), Strategic Environmental Advisor for Mpumalanga and KwaZulu-Natal operations (2006 – 2014)
- Overlooked Colliery, Technical Review and Contributing Author of Mine Works Programme, Mpumalanga (2013)
- Ludwich's Landscapes and Water Features, Internal Review and Approval of the EMP for Kya Sands Industrial Township, Gautena (2013)
- Shanduka Coal (Glencore Coal South Africa), Internal Review and Approval of the EMP for the MTC Water Treatmeth Plant, Mpumlanaga (2013)
- Eskom SOC Ltd and Shanduka Coal, Internal Review and Approval of the EMP for the Deviation and Re-alignment of a 400kv powerline
- West Middelburg Community Forum, Establishment and Facilitation of the Middelburg Community Forum (2009 -2012)

Worldwide Coal (Pembani Coal), Ebuhleni Township Development, Mpumalanga. Internal Review and Approval of the Basic Assessment Report and EMP for the development of twenty two (22) RDP style houses (2009)

# Mine Residue Management

Scope: Conceptual design and remediation of various waste management facilities throughout South Africa, including:

- Iscor Vanderbijl, conceptual design of the slag dump
- Durban Roodepoort Deep, conceptual design of the tailings facility
- Duiker Mining, Tselentis Colliery, conceptual design of co-disposal dump
- Vansa Vanadium remediation and extension of the mine residue facility
- Duiker Mining, Spitzkop Colliery, remediation of the burning discard dump
- Union Colliery, remediation of burning discard dump



# **CURRICULUM VITAE: JANE BARRETT**

#### **PROFESSIONAL PROFILE**

Jane holds a BSc degree in Environmental Management and Botany which she completed parttime whilst gaining practical experience in the Environmental Management field. She has also succesfully completed certificated courses in Project Management and Carbon Footprinting Environmental, Social and Governance (ESG) Reporting.

She has a good understanding of Environmental Legilsation, and its application to factual scenarios. Her experience includes: Environmental Impact Assessments; Environmental Management Plans; Monitoring and Compliance Reporting; Environmental Auditing; Water Use Licensing; Mineral Right Applications; Pre-feasibility and feasibility Studies.

# YEARS EXPERIENCE

10 + years

# **EMPLOYMENT HISTORY**

# **Environmental & Sustainability Consultant**

Cabanga Environmental (2015 – Current)

- Responsible for the overall management of mining and development projects, ensuring alignment of the project with the applicable Environmental Legislation.
- Project management, including reviewing and tracking project expenses; supervising project assigned personnel and specialist subcontractors; and liaising with other project-level functional leads (e.g. engineering) to assist them in integrating and/or addressing the applicable environmental requirements in their work products and activities.
- · Permitting and Licensing (in terms of MPRDA, NEMA, NEM:AQA, NEM:WA and NWA).
- Carbon Accounting / GHG Emissions Reporting and Carbon Tax calculations.
- Compliance Auditing (e.g. EMP performance assessments, due diligence investigations, water use license compliance audits etc.).

# **EMPLOYEMENT HISTORY (CONT.)**

#### **Environmental Consultant**

Cabanga Environmental (2013 – 2015)

- Compilation of Environmental Impact Assessments and Management Plans.
- Environmental licensing and permitting.
- Environmental Compliance Auditing.

# **Project Assistant**

Cabanga Environmental (2006 – 2013)

- Prepare applicable permit applications.
- Communicate and manage projects with subcontractors and specialists.
- Fieldwork, information gathering and data analysis.
  - Assist with the compilation of impact assessments and technical documents. Stakeholder coordination and public participation.

### PA to EXCO

Digby Wells Environmental (2002 – 2006)

# Candidate Estate Agent & Office Administrator

Realty Executives (2000 – 2002)

# **QUALIFICATIONS**

BSc: Environmental Management & University of South Africa, 2013

Advanced Project Certificate: Management, University of Cape Town, 2015

Certificate: Carbon Footprint Analysis, Terra Firma Academy, 2015

Certificate: ESG Reporting based on the GRI Sustainability Reporting Standards, GRI Academy, 2021

# PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

South African Council for Natural Scientific Professions (SACNASP): Certificated Natural Scientist, Environmental Science. Reg. No. 130485

Member: International Association for Impact Assessment, South Africa



Member: International Association for Public Participation, Southern Africa

Member: Environmental Law Association, South Africa

#### PROFESSIONAL DEVELOPMENT:

GRI Disclosures Workshop. Environmental and Sustainability Solutions, 2021

SAGERS Reporting Training, Department of Environment, Forestries and Fisheries, 2020

Introductory EIA Report Writing, International Association for Impact Assessment South Africa, 2020

The Health Effects of Climate Change, Harvard University via edX, 2020

NWA: Workshop on Section 21(c) and (i) Water Use Activities, Department of Water Affairs and Sanitation, 2017

NEMA: One Environmental System, Imbewu Sustainability Legal Specialists, 2015

NEMA: Environmental Impact Assessment Regulations, Imbewu Sustainability Legal Specialists, 2015

NEMA: Environmental Impact Assessment Regime, Gauteng Department of Agriculture and Rural Development, 2014

NEM:Waste Management Act, Mac Roberts Attorneys, 2014

Environmental and Mining Law, Mac Roberts Attorneys, 2013

South African Waste Legislation, Integrated Water and Waste Management Planning, CBS Solution, 2011

National Environmental Management Act & NEM:Waste Act, EcoLaw, 2011

South African Property and Real Estate Law, Millpark, 2001

# SELECTED PROJECT EXPERIENCE

Geluk & Goudlaagte Prospecting Right Application for

Clay

Client: Matsopa Minerals (Pty) Ltd Location: Koppies, Free State

Year: 2021 (current)

Role: Project Manager & EAP

**Tumelo Colliery IWUL Compliance Audit** 

Client: Tumelo Coal Mines (Pty) Ltd Location: Hendrina, Mpumalanga

**Year:** 2020

Role: Auditor / EAP

• Undertake site visit and data review to determine compliance of the mining operations against the approved water use license as well as GN704 of the National Water Act, 1998.

# Overlooked Alpha Greenhouse Gas Emissions Report

Client: Halfgewonnen and Weltevreden Collieries

Location: Hendrina, Mpumalanga

**Year:** 2020

Role: Environmental & Sustainability Consultant

- Compilation of an emissions inventory.
- Calculation of the Carbon Footprint in terms of the GHG Reporting Regulations, 2016 and reporting via NAEIS.

# Union Mine Greenhouse Gas Emissions Report

Client: Siyanda Bakgatla Platinum Mine (Pty) Ltd

Location: Swartklip, Limpopo Year: 2019 - 2020 (annually)

Role: EAP

- Compilation of an emissions inventory.
- Calculation of the Carbon Footprint in terms of the GHG Reporting Regulations, 2016 and reporting via NAEIS.
- Calculation of Environmental Levies payable in terms of the Carbon Tax Act.

# Tumelo Colliery Greenhouse Gas Emissions Report

Client: Tumelo Coal Mines (Pty) Ltd Location: Pullenshope, Mpumalanga

**Year:** 2019 - 2020 (annually)

Role: EAP

- Compilation of an emissions inventory.
- Calculation of the Carbon Footprint in terms of the GHG Reporting Regulations, 2016 and NAEIS. Calculation reporting via Environmental Levies payable in terms of the Carbon Tax Act.



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# **SELECTED PROJECT EXPERIENCE (confinued)**

Benadeplaats Limestone Mine Annual Update of the **IWWMP** Report

Client: G&W Base and Industrial Minerals (Pty) Ltd

Location: Slurry, North-West **Year:** 2020 - 2021 (annually) Role: Project Manager & EAP

• Review and contributing author of the Integrated Water and Waste Management Plan (IWWMP) and Rehabiliation Strategy Implementation Plan (RSIP) report.

# Mooinfontein Wash Plant Annual Closure & **Rehabilitation Report**

Client: Eyethu Coal (Pty) Ltd Location: Witbank, Mpumalanga

**Year:** 2019 – 2020 (annually)

Role: EAP

Undertake site visit and data review.

· Primary author of the annual closure and

rehabilitation report.

## **Overlooked Colliery Monitoring & Compliance**

Client: Overlooked Colliery (Pty) Ltd Location: Bethal, Mpumalanga **Year:** 2016 – 2021 (ongoing) Role: Environmental Officer

• Responsible for undertaking monthly site inspections to monitor the effectives of mitigation measures as proposed by the EMP. Including the review and management of the ongoing monitoring programme.

 Responsible for undertaking the Internal IWUL Compliance Audit on an annual basis.

# Tumelo Colliery Amendment for Partial Pillar Extraction

Client: Tumelo Coal Mines (Pty) Ltd Location: Hendrina, Mpumalanga

Year: 2019 - 2020

Role: Project Manager & EAP

 Responsible for managing the overall project, to ensure alignment of the project with NEMA and NWA.

· Primary Author of the EMP Amendment, IWULA and IWWMP Reports.

- Review and management of the various specialist studies.
- Authorities liaison.

# Benadeplaats Limestone Mine Compliance Audits

Client: G&W Base and Industrial Minerals (Pty) Ltd

Location: Slurry, North-West **Year:** 2016 – 2021 (annually)

Role: EAP / Auditor

- · Undertake the site visit and data review to determine compliance of the mining operations with regards to the conditions stipulated within the approved water use license and EMP report.
- Primary author of the Compliance Audit reports.

# Sudor Coal / Overlooked Alpha Section 11 Application

Client: Overlooked Colliery Alpha (Pty) Ltd Location: Hendrina / Bethal, Mpumalanga

Year: 2019 Role: EAP

> • Completion of the Section 11 Application in terms of the MPRDA for the transfer of Ownership from Sudor Coal to Overlooked Alpha for the Halfgewonnen and Weltevreden Collieries.

# Verdoorst kolk Prospecting Right Application

Client: Witkop Fluorpsar (Pty) Ltd / SA Lime

Location: Brandvlei, Northern Cape

**Year:** 2018

Role: Project Manager & EAP

- Completion of the Prospecting Right Application in terms of the MPRDA.
- Responsible for managing the overall EIA process, to ensure alignment of the project with NEMA and NWA.
- · Contributing author and review of the Basic Assessment and EMP report

# **SELECTED PROJECT EXPERIENCE (continued)**

### Elikhulu Project for the re-processing of tailings

**Client:** Evander Gold Mines (Pty) Ltd **Location:** Evander, Mpumalanga

**Year:** 2016 - 2018

Role: Project Manager & EAP

- Responsible for managing the overall EIA process, to ensure alignment of the project with NEMA
- Co-author of Scoping, EIA and EMP reports.
- Review and management of the various specialist studies.
- Authorities liaison.

# **Schurvekop Colliery Mining Right Application**

Client: Mmakau Coal (Pty) Ltd Location: Bethal, Mpumalanga

**Year:** 2017 - 2018

Role: Project Manager & EAP

- Responsible for managing the overall EIA process, to ensure alignment of the project with NEMA and NWA.
- Primary Author of the Scoping Report.
- Co-author of the EIA / EMP, and IWWMP Reports.
- Review and management of the various specialist studies.
- Authorities liaison.

# Uitkomst Colliery Application to review and amend the IWUL

Client: Pan African Resources (PLC)
Location: Newcastle, KwaZulu Natal

Year: 2016

Role: Project Manager & EAP

- Primary Author responsible for the compilation of the IWWMP Report.
- Review and management of the various specialist studies.
- Authorities liaison.

# Prospect & Sahara Prospecting Right Application for Bentonite

Client: G&W Base and Industrial Minerals (Pty) Ltd

Location: Koppies, Free State

**Year:** 2015

Role: Project Manager & EAP

- Responsible for compiling the Prospecting Right Application in terms of the MPRDA.
- Primary Author responsible for the compilation of the Basic Assessment & EMP Report

# 24G Application for Rectification for activities associated with the storage and handling of dangerous goods

Client: IG Chem (Pty) Ltd

Location: Olifantsfontein, Gauteng

Year: 2015 Role: EAP

- Responsible for compiling the necessary application forms in terms of NEMA.
- Primary Author responsible for the compilation of the EMP Report.
- Authorities liaison.

# Application to review and amend the IWUL

Client: Pembani Coal Carolina (Pty) Ltd

Location: Carolina, Mpumalanga

**Year:** 2015

Role: Project Manager & EAP

- Primary Author responsible for the compilation of the IWWMP Report.
- Review and management of the various specialist studies.
- Authorities liaison.

# Weglgelegen Colliery IWUL Compliance Audit

Client: Iyanga Mining (Pty) Ltd Location: Delmas, Mpumalanga

**Year:** 2015

Role: EAP / Auditor

- Undertake the site visit and data review to determine compliance of the mining operations with regards to the conditions stipulated within the approved water use license.
- Primary author of the Compliance Audit report.



# **SELECTED PROJECT EXPERIENCE (continued)**

Koppies Bentonite Mine Atmospheric Emission License Application

Client: G&W Base and Industrial Minerals (Pty) Ltd

**Location**: Koppies, Free State

Year: 2015 Role: EAP

• Responsible for compiling the application for Atmosopheric Emissions License.

• Authorities liaison.



# **CURRICULUM VITAE: MICHELLE VENTER**

#### **PROFESSIONAL PROFILE**

Key Experience includes:

- Environmental Auditing
- Water Use License Auditing
- Basic Assessments
- Scoping Reports
- Environmental Impact Assessments
- Environmental Management Programmes
- Rehabilitation and Closure reports
- Water Use License Applications and IWWMP compilation, IWWMP Annual Updates
- Monitoring (dust, water and noise) and Compliance
- GIS Mapwork
- Public Participation Process

#### YEARS EXPERIENCE

10 years

#### **QUALIFICATIONS**

**BSc Honours in Geography**, University of South Africa, 2014

**BSc Environmental Management & Zoology**, University of South Africa, 2010

### PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

South African Council for Natural Scientific Professions (SACNASP): Certificated Natural Scientist-Reg. No. 114447

Registered EAP (EAPASA): 2019/456

Society of South African Geographers (SSAG): 27/19

# **COURSES, WORKSHOPS & SEMINARS**

An Introduction on How to Map and Groundtruth Wetlands, Western Cape Wetlands Forum, 2020

Introductory EIA Report Writing, IAIASA, 2020

IWRM, NWA, and Water Use Authorisations: Focusing on WULA's and IWWMP's, Carin Bosman Sustainble Solutions, 2018

NWA: Workshop on Section 21(c) and (i) Water Use Activities, Department of Water Affairs and Sanitation, 2017

**SANBI GIS Training**, SANBI, 2017

South African Carbon Tax: Lessons to Learn from Australia, Warburton Gunn Attorneys, 2013

# **EMPLOYEMENT HISTORY**

Cabanga Environmental: 2016- current

Position Held: Environmental Assessment Practitioner

and Public Participation Officer

Phanda Risk Firm: 2014-2016 (2 years)

Last Position Held: Environmental Control Officer

CS Environmental Services: 2010- 2014 (4 years)

Last Position Held: Junior Environmental Consultant

#### PROJECT EXPERIENCE: DEVELOPMENT

Khusile Power Station: Ogies, Mpumalanga: Environmental awareness training material compilation during the construction of the power station.

Polokwane High Court: Polokwane, Limpopo: Internal environmental compliance and Environmental Management Plan report for the construction of the Polokwane High Court. General Environmental Control Officer duties.

South32, Enslin Crossing, Ogies, Mpumalanga: Environmental Management Plan report for the construction of a road crossing.

# PROJECT EXPERIECE: MINING

Steenkampskraal Monazite Mine (Pty) Ltd: Steenkampskraal, Western Cape. Intergrated Water and Waste Management Programme and Rehabilitation Strategy and Implementation Programme for an existing mine that intend on being recomissioned.

Witkop Fluorpsar (Pty) Ltd, Kanakies, Northern Cape: Scoping Report, Management Plan report, Environmental Impact Assessment and Environmental Management Plan report for activities associated with the mining of gypsum. Full Public Participation Process under NEMA and EIA Regulations and for a mining right application and a Rehabilitation Plan

Witkop Fluorpsar (Pty) Ltd, Verdoorstkolk, Northern Cape: Co-author of Basic Assessment and Management Plan report for activities associated with the prospecting of gypsum. Full Public Participation Process under NEMA and EIA Regulations and for a prospecting right application.





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Mhloli Mining and Exploration (Pty) Ltd: Rietbult, Limpopo. Basic Assessment and Management Plan report for activities associated with the prospecting of gold. Full Public Participation Process under NEMA and EIA Regulations and for a prospecting right application.

Afrisam (Pty) Ltd, Ulco, Northern Cape: Water Use License Audit; Atmospheric Emission License Audit; and Environmental Management Plan report.

Corobrik (Pty) Ltd, Olifantsfontein, Driefontein, Rietvlei, and Springs: Water Use License Audit; Water Use Audit; partial application of National Water Use Licenses and Alien invasive plant identification.

Droogvallei Rail Siding Company (Pty) Ltd, Carolina, Mpumalanga: Environmental monthly inspections and reporting, monthly water sampling (surface and ground water) and dust fall out monitoring, Environmental Compliance Audit; Annual IWWMP update and IWUL Audit.

Eyethu Coal (Pty) Ltd: Leeuwpoort, Inyanda, Blesboklaagte, and Blackhll Siding - Closure and Rehabilitation Reports.

Tegeta Exploration and Resources (Pty) Ltd, Brakfontein Colliery, Delmas, Mpumalanga: Environmental monthly inspections and reporting; monthly water sampling (surface and ground water); and Environmental Compliance Audit.

Pan African Resources, Evander Gold Mines, Evander, Mpumalanga: Full Public Participation Process under NEMA and EIA Regulations for a Mining Right Application.

Mmakau Coal (Pty) Ltd, Schurvekop Mine, Bethal, Mpumalanga: Full Public Participation Process under NEMA and EIA Regulations for a Mining Right Application and noise monitoring of baseline levels for EIA/EMPr.

Shiva Uranium (Pty) Ltd, Gold and Uranium Operations, Mpumalanga: Environmental Compliance Audit.

Pan Africa Resources PLC: Barberton Mines (Pty) Ltd – Fairview Mine: Full Public Participation Process under NEMA Regulations for a Mining Right Application.

Future Coal (Pty) Ltd, Chelmsford Mine, Newcastle, Kwa-Zulu Natal: Full Public Participation Process under NEMA and EIA Regulations for an EMPr amendment.

Thutha Amalahle (Pty) Ltd: Water Use License Application and Intergrated Water and Waste Management Programme. Full Public Participation Process under the NWA.

G&W Base and Industrial Minerals (Pty) Ltd, Koppies Bentonite Mine, Free State: GN704 Compliance Audit.

Uitkomst Colliery (Pty) Ltd, Wykoms Siding, Newcastle, Kwa-Zulu Natal: Environmental compliance inspection

#### **PROJECT EXPERIENCE: FACTORIES**

DB Thermal, a division of DBT Technologies (Pty) Ltd, Nigel, Gauteng: Water Use Audit, creation and upkeep of environmental management system; internal environmental audits; and environmental awareness training material compliation.

Sedibeng Brewery (Pty) Ltd, Meyerton, Gauteng: Closing of ISO14001 external audit findings; creation and upkeep of environmental management system; and Water Use Audit.

#### **REVIEWS:**

Minerano Resources (Pty) Ltd, Millo, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Du Preez Leger, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Rebelkop, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Vermeulenskraal, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Klipbankfontein, Northern Cape: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Vaalbank, North West: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Rhenosterdrift, North West: Review of Basic Assessment Report for a prospecting right application.

## **PROFICIENCIES**

Proficient in Microsoft Office Suite (Excel, Word, Outlook etc.)

Proficient with SANBI BGIS
Proficient with Google Earth

Proficient with Global Mapper

Proficient with Surfer

Proficient in QGIS